2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
11/24/2025
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: 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: 34.28 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 1.23 ft — Elevation of Water Level: 480.85 ft./MSL

Sampling Depth: 57 ft — Volume of Water Column: 47.03 gal

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

Well Purged: X Yes ___ No — Well Volumes Purged: 3.1

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 10/20/2025 — Sample Collection Time: 10:17

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): 3440096001 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP001W
Sample Date	10/20/2025

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	16	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	28.8	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	2600	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	10.5	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	84	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	17.3	EPA 300.0
pH-FIELD (SU)	5.19	FIELD
pH-LAB (SU)	7.14	EPA 150.1
POTASSIUM, TOTAL	2.1	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	14.5	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	265	FIELD
SPEC. COND., LAB (umhos/cm)	263	EPA 120.1
SULFATE	3.2	EPA 300.0
ALKALINITY	7	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	195	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	70	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	10/20/2025

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: CWMP007W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

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

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

Depth to Water Level: 5.68 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 1.50 ft — Elevation of Water Level: 447.72 ft./MSL

Sampling Depth: 33 ft — Volume of Water Column: 45.26 gal

Total Well Depth: 36.5 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): 10/20/2025 — Sample Collection Time: 9:58

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): 3440096002 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP007W
Sample Date	10/20/2025

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	19.6	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	75.5	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	9.9	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	8.6	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	10.1	EPA 300.0
pH-FIELD (SU)	4.78	FIELD
pH-LAB (SU)	7.34	EPA 150.1
POTASSIUM, TOTAL	2.3	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	38	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	396	FIELD
SPEC. COND., LAB (umhos/cm)	397	EPA 120.1
SULFATE	18.9	EPA 300.0
ALKALINITY	12	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	252	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	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.	CWMP007W
Sample Date	10/20/2025

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: 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: 44.01 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: -0.37 ft — Elevation of Water Level: 469.42 ft./MSL

Sampling Depth: 130 ft — Volume of Water Column: 140.98 gal

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

Well Purged: X Yes ___ No — Well Volumes Purged: 1.0

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 10/20/2025 — Sample Collection Time: 12:22

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): 3440096003 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP005W
Sample Date	10/20/2025

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	16.9	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	72.7	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	84	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	7.9	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	52	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	7.9	EPA 300.0
pH-FIELD (SU)	5.47	FIELD
pH-LAB (SU)	7.32	EPA 150.1
POTASSIUM, TOTAL	2.2	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	37.1	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	354	FIELD
SPEC. COND., LAB (umhos/cm)	355	EPA 120.1
SULFATE	6.3	EPA 300.0
ALKALINITY	17	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	224	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	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.	CWMP005W
Sample Date	10/20/2025

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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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: 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: 15 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.53 ft — Elevation of Water Level: 296.97 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: 1.0

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

Spring Flow Rate: ___ gpm

Sample Date (mm/dd/yy): 10/21/2025 — Sample Collection Time: 10:04

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): 3440209003 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP016W
Sample Date	10/21/2025

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	10	SM18-2321
CALCIUM, TOTAL	6.2	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)	470	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	2.1	EPA 300.0
pH-FIELD (SU)	5.11	FIELD
pH-LAB (SU)	7.19	EPA 150.1
POTASSIUM, TOTAL	0.58	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	3.9	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	67	FIELD
SPEC. COND., LAB (umhos/cm)	67	EPA 120.1
SULFATE	8.6	EPA 300.0
ALKALINITY	10	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	61	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	7.9	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
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I.D. No	100008
Monitoring Point No.	CWMP016W
Sample Date	10/21/2025

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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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: 8.58 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.10 ft — Elevation of Water Level: 352.32 ft./MSL

Sampling Depth: 18 ft — Volume of Water Column: 7.19 gal

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

Well Purged: X Yes ___ No — Well Volumes Purged: 0.3

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 10/21/2025 — Sample Collection Time: 11:05

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): 3440209004 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP010W
Sample Date	10/21/2025

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	0.3	EPA 350.3
BICARBONATE	151	SM18-2321
CALCIUM, TOTAL	82.3	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	20	EPA 410.4
CHLORIDE	442	EPA 300.0
FLUORIDE	0.5 ND	EPA 300.0
IRON, TOTAL (ug/l)	170	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	69.5	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	260	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	13.6	EPA 300.0
pH-FIELD (SU)	6.82	FIELD
pH-LAB (SU)	8.27	EPA 150.1
POTASSIUM, TOTAL	18.8	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	242	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	2124	FIELD
SPEC. COND., LAB (umhos/cm)	2150	EPA 120.1
SULFATE	37.2	EPA 300.0
ALKALINITY	340	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	1170	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	6.5	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	3.6	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.	CWMP010W
Sample Date	10/21/2025

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
11/24/2025
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: 9.27 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.70 ft — Elevation of Water Level: 394.93 ft./MSL

Sampling Depth: 16 ft — Volume of Water Column: 6.81 gal

Total Well Depth: 19.7 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): 10/21/2025 — Sample Collection Time: 11:48

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): 3440209005 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP009W
Sample Date	10/21/2025

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	28.3	EPA 350.3
BICARBONATE	543	SM18-2321
CALCIUM, TOTAL	207	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	119	EPA 410.4
CHLORIDE	759	EPA 300.0
FLUORIDE	1 ND	EPA 300.0
IRON, TOTAL (ug/l)	41400	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	91.5	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	14500	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	2.5 ND	EPA 300.0
pH-FIELD (SU)	6.12	FIELD
pH-LAB (SU)	8.19	EPA 150.1
POTASSIUM, TOTAL	36.7	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	252	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	3302	FIELD
SPEC. COND., LAB (umhos/cm)	3300	EPA 120.1
SULFATE	7.7	EPA 300.0
ALKALINITY	543	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	1920	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	43	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	40	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	10/21/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1.3	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
11/24/2025
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: 3.61 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.80 ft — Elevation of Water Level: 418.69 ft./MSL

Sampling Depth: 22 ft — Volume of Water Column: 3.13 gal

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

Well Purged: X Yes ___ No — Well Volumes Purged: 0.4

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 10/21/2025 — Sample Collection Time: 12:26

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): 3440209006 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP008W
Sample Date	10/21/2025

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	6.57	EPA 350.3
BICARBONATE	455	SM18-2321
CALCIUM, TOTAL	73.3	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	39	EPA 410.4
CHLORIDE	60.5	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	23600	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	34	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	15300	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	1 ND	EPA 300.0
pH-FIELD (SU)	6.26	FIELD
pH-LAB (SU)	8.51	EPA 150.1
POTASSIUM, TOTAL	9.9	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	58.5	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	983	FIELD
SPEC. COND., LAB (umhos/cm)	971	EPA 120.1
SULFATE	4.7	EPA 300.0
ALKALINITY	455	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	548	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	12.2	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	23	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	10/21/2025

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	1.2	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
11/24/2025
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): 10/21/2025 — Sample Collection Time: 12:51

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): 3440209007 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP018S
Sample Date	10/21/2025

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	505	SM18-2321
CALCIUM, TOTAL	97.7	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	22	EPA 410.4
CHLORIDE	588	EPA 300.0
FLUORIDE	0.5 ND	EPA 300.0
IRON, TOTAL (ug/l)	260	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	86.7	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	61	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	18.2	EPA 300.0
pH-FIELD (SU)	8.53	FIELD
pH-LAB (SU)	8.71	EPA 150.1
POTASSIUM, TOTAL	23.4	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	376	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	2763	FIELD
SPEC. COND., LAB (umhos/cm)	2810	EPA 120.1
SULFATE	69.4	EPA 300.0
ALKALINITY	505	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	1570	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	8.5	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	17	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	10/21/2025

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
11/24/2025
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): 10/21/2025 — Sample Collection Time: 13:09

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): 3440209008 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP017S
Sample Date	10/21/2025

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	657	SM18-2321
CALCIUM, TOTAL	110	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	18	EPA 410.4
CHLORIDE	765	EPA 300.0
FLUORIDE	0.5 ND	EPA 300.0
IRON, TOTAL (ug/l)	770	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	115	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	240	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	25.2	EPA 300.0
pH-FIELD (SU)	8.12	FIELD
pH-LAB (SU)	8.73	EPA 150.1
POTASSIUM, TOTAL	26.3	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	498	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	3882	FIELD
SPEC. COND., LAB (umhos/cm)	3660	EPA 120.1
SULFATE	127	EPA 300.0
ALKALINITY	657	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	2090	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	5.1	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	4.3	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.	CWMP017S
Sample Date	10/21/2025

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
11/24/2025
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: 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): 10/22/2025 — Sample Collection Time: 9:17

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): 3440388001 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP012W
Sample Date	10/22/2025

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	143	SM18-2321
CALCIUM, TOTAL	36.5	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	2 ND	EPA 300.0
FLUORIDE	0.26	EPA 300.0
IRON, TOTAL (ug/l)	67 ND	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	1.6	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	29	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	1 ND	EPA 300.0
pH-FIELD (SU)	8.29	FIELD
pH-LAB (SU)	8.42	EPA 150.1
POTASSIUM, TOTAL	43.5	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	12	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	340	FIELD
SPEC. COND., LAB (umhos/cm)	342	EPA 120.1
SULFATE	2.9	EPA 300.0
ALKALINITY	169	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	258	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	5.1	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	1.7	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.	CWMP012W
Sample Date	10/22/2025

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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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: CWMP003W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

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

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

Depth to Water Level: 52.53 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: -1.29 ft — Elevation of Water Level: 471.68 ft./MSL

Sampling Depth: 100 ft — Volume of Water Column: 33.00 gal

Total Well Depth: 75 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): 10/22/2025 — Sample Collection Time: 12:27

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): 3440388002 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP003W
Sample Date	10/22/2025

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	44.7	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	7.8	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	10	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	5.2	EPA 300.0
pH-FIELD (SU)	4.96	FIELD
pH-LAB (SU)	7.31	EPA 150.1
POTASSIUM, TOTAL	2	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	19	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	268	FIELD
SPEC. COND., LAB (umhos/cm)	264	EPA 120.1
SULFATE	17.3	EPA 300.0
ALKALINITY	17	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	205	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.66	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	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.	CWMP003W
Sample Date	10/22/2025

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	1.3	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
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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: 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: 41.75 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: -1.19 ft — Elevation of Water Level: 484.06 ft./MSL

Sampling Depth: 85 ft — Volume of Water Column: 85.55 gal

Total Well Depth: 100 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): 10/22/2025 — Sample Collection Time: 14:17

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): 3440388003 — Final Lab Analysis CompletionDate: 10/30/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP002W
Sample Date	10/22/2025

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	75	SM18-2321
CALCIUM, TOTAL	43.8	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	91	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	93	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	16.5	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	800	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	5.4	EPA 300.0
pH-FIELD (SU)	5.7	FIELD
pH-LAB (SU)	7.83	EPA 150.1
POTASSIUM, TOTAL	3.1	SW846 6010B
POTASSIUM, DISSOLVED		SW846 6010B
SODIUM, TOTAL	28	SW846 6010B
SODIUM, DISSOLVED		SW846 6010B
SPEC. COND., FIELD (umhos/cm)	520	FIELD
SPEC. COND., LAB (umhos/cm)	528	EPA 120.1
SULFATE	20.2	EPA 300.0
ALKALINITY	75	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	398	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	2.9	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.
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	10/22/2025

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	5.3	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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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 ° 57 ' 17.9 " — Longitude: 76 ° 26 ' 7.05 "

Depth to Water Level: 51.21 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: -1.37 ft — Elevation of Water Level: 478.32 ft./MSL

Sampling Depth: 130 ft — Volume of Water Column: 130.40 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): 10/23/2025 — Sample Collection Time: 8:18

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): 3440611001 — Final Lab Analysis CompletionDate: 10/31/2025

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

Comments:

I.D. No	100008
Monitoring Point No.	CWMP004W
Sample Date	10/23/2025

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	15.7	SW846 6010B
CALCIUM, DISSOLVED		SW 8466010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	31.9	EPA 300.0
FLUORIDE	0.2 ND	EPA 300.0
IRON, TOTAL (ug/l)	270	SW846 6010B
IRON, DISSOLVED (ug/l)		SW846 6010B
MAGNESIUM, TOTAL	4.9	SW846 6010B
MAGNESIUM, DISSOLVED		SW846 6010B
MANGANESE, TOTAL (ug/l)	5.7	SW846 6010B
MANGANESE, DISSOLVED (ug/l)		SW846 6010B
NITRATE-NITROGEN	4.7	EPA 300.0
pH-FIELD (SU)	5.12	FIELD
pH-LAB (SU)	7.65	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)	202	FIELD
SPEC. COND., LAB (umhos/cm)	207	EPA 120.1
SULFATE	4.1	EPA 300.0
ALKALINITY	22	SM18-2320B
TDS (TOTAL DISSOLVED SOLIDS)	163	SM18-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM18-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	2.9	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
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I.D. No	100008
Monitoring Point No.	CWMP004W
Sample Date	10/23/2025

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.

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 4th QTR 2025 GWMP-FORM 19Q
Workorder 3440096
Report ID 472296 on 10/31/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Oct 20, 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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3440096001	CWMP001W	Ground Water	10/20/2025 10:17	10/20/2025 15:30	EMP	ALS Environmental-Middletown
3440096002	CWMP007W	Ground Water	10/20/2025 09:58	10/20/2025 15:30	EMP	ALS Environmental-Middletown
3440096003	CWMP005W	Ground Water	10/20/2025 12:22	10/20/2025 15:30	EMP	ALS Environmental-Middletown
3440096005	Trip Blank	Water	10/20/2025 00:00	10/20/2025 15:30	EMP	ALS Environmental-Middletown

Reference

Notes

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

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The QC sample type LCS for method EPA 300.0 was outside the control limits for the analyte Fluoride. The % Recovery was reported as 112 and the control limits were 90 to 110. The reported fluoride result is 0.
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
4	pH dup is outside the acceptable limits of ± 0.1 pH units.

Detected Results Summary

Client Sample ID	CWMP001W	Collected	10/20/2025 10:17
Lab Sample ID	3440096001	Lab Receipt	10/20/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	34.28	Feet		Field	#
Dissolved Oxygen	8.92	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	515.13	Feet		Field	#
Flow Rate	1.83	gal/min		Field	#
Ground Water Elevation	480.85	ft/MSL		Field	#
Oxidation-Reduction Potential	258	mV		Field	#
pH, Field (SM4500B)	5.19	pH_Units		Field	#
Sample Depth	57.00	Feet		Field	#
Specific Conductance, Field	265	umhos/cm	1	Field	#
Temperature	13.95	Deg. C		Field	#
Total Well Depth	66.30	Feet		Field	#
Turbidity, Field	92	NTU	1	Field	#
Volume in Water Column	47.07	Gallons		Field	#
Water Level After Purge	50.74	Feet		Field	#
Well Volumes Purged	3.11	Vol		Field	#
METALS					
Calcium, Total	16.0	mg/L	0.11	SW846 6010C	#
Iron, Total	2.6	mg/L	0.067	SW846 6010C	#
Magnesium, Total	10.5	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.084	mg/L	0.0056	SW846 6010C	#
Potassium, Total	2.1	mg/L	0.56	SW846 6010C	#
Sodium, Total	14.5	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	28.8	mg/L	2.0	EPA 300.0	#
Nitrate-N	17.3	mg/L	1.0	EPA 300.0	#
pH	7.14	pH_Units		S4500HB-11	#
Specific Conductance	263	umhos/cm	5	SW846 9050A	#
Sulfate	3.2	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	195	mg/L	25	SM2540C-15	#
Turbidity	70	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP007W	Collected	10/20/2025 09:58
Lab Sample ID	3440096002	Lab Receipt	10/20/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	5.68	Feet		Field	#
Dissolved Oxygen	5.25	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	453.40	Feet		Field	#
Flow Rate	1.41	gal/min		Field	#
Ground Water Elevation	447.72	ft/MSL		Field	#
Oxidation-Reduction Potential	356	mV		Field	#
pH, Field (SM4500B)	4.78	pH_Units		Field	#
Sample Depth	33.00	Feet		Field	#
Specific Conductance, Field	396	umhos/cm	1	Field	#
Temperature	13.79	Deg. C		Field	#
Total Well Depth	36.50	Feet		Field	#
Volume in Water Column	45.31	Gallons		Field	#
Water Level After Purge	9.26	Feet		Field	#
Well Volumes Purged	1.24	Vol		Field	#
METALS					
Calcium, Total	19.6	mg/L	0.11	SW846 6010C	#
Magnesium, Total	9.9	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.0086	mg/L	0.0056	SW846 6010C	#
Potassium, Total	2.3	mg/L	0.56	SW846 6010C	#
Sodium, Total	38.0	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	75.5	mg/L	2.0	EPA 300.0	#
Nitrate-N	10.1	mg/L	1.0	EPA 300.0	#
pH	7.34	pH_Units		S4500HB-11	#
Specific Conductance	397	umhos/cm	5	SW846 9050A	#
Sulfate	18.9	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	252	mg/L	25	SM2540C-15	#
Turbidity	0.65	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP005W	Collected	10/20/2025 12:22
Lab Sample ID	3440096003	Lab Receipt	10/20/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	44.01	Feet		Field	#
Dissolved Oxygen	6.68	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	513.43	Feet		Field	#
Flow Rate	1.68	gal/min		Field	#
Ground Water Elevation	469.42	ft/MSL		Field	#
Oxidation-Reduction Potential	253	mV		Field	#
pH, Field (SM4500B)	5.47	pH_Units		Field	#
Sample Depth	130.00	Feet		Field	#
Specific Conductance, Field	354	umhos/cm	1	Field	#
Temperature	13.07	Deg. C		Field	#
Total Well Depth	138.92	Feet		Field	#
Volume in Water Column	139.52	Gallons		Field	#
Water Level After Purge	45.20	Feet		Field	#
Well Volumes Purged	1.02	Vol		Field	#
METALS					
Calcium, Total	16.9	mg/L	0.11	SW846 6010C	#
Iron, Total	0.084	mg/L	0.067	SW846 6010C	#
Magnesium, Total	7.9	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.052	mg/L	0.0056	SW846 6010C	#
Potassium, Total	2.2	mg/L	0.56	SW846 6010C	#
Sodium, Total	37.1	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	72.7	mg/L	2.0	EPA 300.0	#
Nitrate-N	7.9	mg/L	1.0	EPA 300.0	#
pH	7.32	pH_Units		S4500HB-11	#
Specific Conductance	355	umhos/cm	5	SW846 9050A	#
Sulfate	6.3	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	224	mg/L	25	SM2540C-15	#
Turbidity	3.0	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	CWMP001W	Collected	10/20/2025 10:17
Lab Sample ID	3440096001	Lab Receipt	10/20/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	34.28		Feet		Field	1	10/20/2025 10:17	EMP	D
Dissolved Oxygen	8.92		mg/L	0.01	Field	1	10/20/2025 10:17	EMP	D
Elev Top MW Casing above MSL	515.13		Feet		Field	1	10/20/2025 10:17	EMP	D
Flow Rate	1.83		gal/min		Field	1	10/20/2025 10:17	EMP	D
Ground Water Elevation	480.85		ft/MSL		Field	1	10/20/2025 10:17	EMP	D
Oxidation-Reduction Potential	258		mV		Field	1	10/20/2025 10:17	EMP	D
pH, Field (SM4500B)	5.19		pH_Units		Field	1	10/20/2025 10:17	EMP	D
Sample Depth	57.00		Feet		Field	1	10/20/2025 10:17	EMP	D
Specific Conductance, Field	265		umhos/cm	1	Field	1	10/20/2025 10:17	EMP	D
Temperature	13.95		Deg. C		Field	1	10/20/2025 10:17	EMP	D
Total Well Depth	66.30		Feet		Field	1	10/20/2025 10:17	EMP	D
Turbidity, Field	92		NTU	1	Field	1	10/20/2025 10:17	EMP	D
Volume in Water Column	47.07		Gallons		Field	1	10/20/2025 10:17	EMP	D
Water Level After Purge	50.74		Feet		Field	1	10/20/2025 10:17	EMP	D
Well Volumes Purged	3.11		Vol		Field	1	10/20/2025 10:17	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	16.0		mg/L	0.11	SW846 6010C	1	10/30/2025 13:14	MSY	K1
Iron, Total	2.6		mg/L	0.067	SW846 6010C	1	10/30/2025 13:14	MSY	K1
Magnesium, Total	10.5		mg/L	0.11	SW846 6010C	1	10/30/2025 13:14	MSY	K1
Manganese, Total	0.084		mg/L	0.0056	SW846 6010C	1	10/30/2025 13:14	MSY	K1
Potassium, Total	2.1		mg/L	0.56	SW846 6010C	1	10/30/2025 13:14	MSY	K1
Sodium, Total	14.5		mg/L	0.56	SW846 6010C	1	10/30/2025 13:14	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	10/22/2025 03:45	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:45	IXK	H

Results

Client Sample ID	CWMP001W	Collected	10/20/2025 10:17
Lab Sample ID	3440096001	Lab Receipt	10/20/2025 15:30

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	10/22/2025 03:45	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	10/22/2025 03:45	
Dibromofluoromethane	1868-53-7	102%	78 – 116	10/22/2025 03:45	
Toluene-d8	2037-26-5	106%	76 – 127	10/22/2025 03:45	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	7		mg/L	5	SM2320B-2011	1	10/23/2025 11:11	JXK	B
Alkalinity, Total	7	1	mg/L	5	SM2320B-2011	1	10/23/2025 11:11	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	10/21/2025 15:57	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	10/22/2025 14:55	KMS	A
Chloride	28.8		mg/L	2.0	EPA 300.0	2	10/21/2025 13:29	J1W	B
Fluoride	ND	ND,2	mg/L	0.20	EPA 300.0	2	10/21/2025 13:29	J1W	B
Nitrate-N	17.3		mg/L	1.0	EPA 300.0	2	10/21/2025 13:29	J1W	B
pH	7.14	3,4	pH_Units		S4500HB-11	1	10/23/2025 11:11	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 15:35	AKH	G
Specific Conductance	263		umhos/cm	5	SW846 9050A	1	10/24/2025 10:15	MJO	B
Sulfate	3.2		mg/L	2.0	EPA 300.0	2	10/21/2025 13:29	J1W	B
Total Dissolved Solids	195		mg/L	25	SM2540C-15	1	10/24/2025 18:00	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	10/25/2025 03:29	PAG	E
Turbidity	70		NTU	0.30	SM2130B-2011	1	10/21/2025 10:48	NPF	B

Results

Client Sample ID	CWMP007W	Collected	10/20/2025 09:58
Lab Sample ID	3440096002	Lab Receipt	10/20/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	5.68		Feet		Field	1	10/20/2025 09:58	EMP	D
Dissolved Oxygen	5.25		mg/L	0.01	Field	1	10/20/2025 09:58	EMP	D
Elev Top MW Casing above MSL	453.40		Feet		Field	1	10/20/2025 09:58	EMP	D
Flow Rate	1.41		gal/min		Field	1	10/20/2025 09:58	EMP	D
Ground Water Elevation	447.72		ft/MSL		Field	1	10/20/2025 09:58	EMP	D
Oxidation-Reduction Potential	356		mV		Field	1	10/20/2025 09:58	EMP	D
pH, Field (SM4500B)	4.78		pH_Units		Field	1	10/20/2025 09:58	EMP	D
Sample Depth	33.00		Feet		Field	1	10/20/2025 09:58	EMP	D
Specific Conductance, Field	396		umhos/cm	1	Field	1	10/20/2025 09:58	EMP	D
Temperature	13.79		Deg. C		Field	1	10/20/2025 09:58	EMP	D
Total Well Depth	36.50		Feet		Field	1	10/20/2025 09:58	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	10/20/2025 09:58	EMP	D
Volume in Water Column	45.31		Gallons		Field	1	10/20/2025 09:58	EMP	D
Water Level After Purge	9.26		Feet		Field	1	10/20/2025 09:58	EMP	D
Well Volumes Purged	1.24		Vol		Field	1	10/20/2025 09:58	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	19.6		mg/L	0.11	SW846 6010C	1	10/30/2025 13:03	MSY	K1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	10/30/2025 13:03	MSY	K1
Magnesium, Total	9.9		mg/L	0.11	SW846 6010C	1	10/30/2025 13:03	MSY	K1
Manganese, Total	0.0086		mg/L	0.0056	SW846 6010C	1	10/30/2025 13:03	MSY	K1
Potassium, Total	2.3		mg/L	0.56	SW846 6010C	1	10/30/2025 13:03	MSY	K1
Sodium, Total	38.0		mg/L	0.56	SW846 6010C	1	10/30/2025 13:03	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	10/22/2025 04:06	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:06	IXK	H

Results

Client Sample ID	CWMP007W	Collected	10/20/2025 09:58
Lab Sample ID	3440096002	Lab Receipt	10/20/2025 15:30

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	10/22/2025 04:06	
4-Bromofluorobenzene	460-00-4	107%	79 – 114	10/22/2025 04:06	
Dibromofluoromethane	1868-53-7	102%	78 – 116	10/22/2025 04:06	
Toluene-d8	2037-26-5	107%	76 – 127	10/22/2025 04:06	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	12		mg/L	5	SM2320B-2011	1	10/23/2025 12:20	JXK	B
Alkalinity, Total	12	1	mg/L	5	SM2320B-2011	1	10/23/2025 12:20	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	10/21/2025 13:24	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	10/22/2025 14:55	KMS	A
Chloride	75.5		mg/L	2.0	EPA 300.0	2	10/21/2025 13:41	J1W	B
Fluoride	ND	ND,2	mg/L	0.20	EPA 300.0	2	10/21/2025 13:41	J1W	B
Nitrate-N	10.1		mg/L	1.0	EPA 300.0	2	10/21/2025 13:41	J1W	B
pH	7.34	3	pH_Units		S4500HB-11	1	10/23/2025 12:20	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 15:15	AKH	G
Specific Conductance	397		umhos/cm	5	SW846 9050A	1	10/24/2025 10:15	MJO	B
Sulfate	18.9		mg/L	2.0	EPA 300.0	2	10/21/2025 13:41	J1W	B
Total Dissolved Solids	252		mg/L	25	SM2540C-15	1	10/24/2025 18:00	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	10/25/2025 03:29	PAG	E
Turbidity	0.65		NTU	0.30	SM2130B-2011	1	10/21/2025 10:48	NPF	B

Results

Client Sample ID	CWMP005W	Collected	10/20/2025 12:22
Lab Sample ID	3440096003	Lab Receipt	10/20/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	44.01		Feet		Field	1	10/20/2025 12:22	EMP	D
Dissolved Oxygen	6.68		mg/L	0.01	Field	1	10/20/2025 12:22	EMP	D
Elev Top MW Casing above MSL	513.43		Feet		Field	1	10/20/2025 12:22	EMP	D
Flow Rate	1.68		gal/min		Field	1	10/20/2025 12:22	EMP	D
Ground Water Elevation	469.42		ft/MSL		Field	1	10/20/2025 12:22	EMP	D
Oxidation-Reduction Potential	253		mV		Field	1	10/20/2025 12:22	EMP	D
pH, Field (SM4500B)	5.47		pH_Units		Field	1	10/20/2025 12:22	EMP	D
Sample Depth	130.00		Feet		Field	1	10/20/2025 12:22	EMP	D
Specific Conductance, Field	354		umhos/cm	1	Field	1	10/20/2025 12:22	EMP	D
Temperature	13.07		Deg. C		Field	1	10/20/2025 12:22	EMP	D
Total Well Depth	138.92		Feet		Field	1	10/20/2025 12:22	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	10/20/2025 12:22	EMP	D
Volume in Water Column	139.52		Gallons		Field	1	10/20/2025 12:22	EMP	D
Water Level After Purge	45.20		Feet		Field	1	10/20/2025 12:22	EMP	D
Well Volumes Purged	1.02		Vol		Field	1	10/20/2025 12:22	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	16.9		mg/L	0.11	SW846 6010C	1	10/30/2025 13:05	MSY	K1
Iron, Total	0.084		mg/L	0.067	SW846 6010C	1	10/30/2025 13:05	MSY	K1
Magnesium, Total	7.9		mg/L	0.11	SW846 6010C	1	10/30/2025 13:05	MSY	K1
Manganese, Total	0.052		mg/L	0.0056	SW846 6010C	1	10/30/2025 13:05	MSY	K1
Potassium, Total	2.2		mg/L	0.56	SW846 6010C	1	10/30/2025 13:05	MSY	K1
Sodium, Total	37.1		mg/L	0.56	SW846 6010C	1	10/30/2025 13:05	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	10/22/2025 04:26	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 04:26	IXK	H

Results

Client Sample ID	CWMP005W	Collected	10/20/2025 12:22
Lab Sample ID	3440096003	Lab Receipt	10/20/2025 15:30

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	10/22/2025 04:26	
4-Bromofluorobenzene	460-00-4	106%	79 – 114	10/22/2025 04:26	
Dibromofluoromethane	1868-53-7	102%	78 – 116	10/22/2025 04:26	
Toluene-d8	2037-26-5	105%	76 – 127	10/22/2025 04:26	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	17		mg/L	5	SM2320B-2011	1	10/23/2025 12:36	JXK	B
Alkalinity, Total	17	1	mg/L	5	SM2320B-2011	1	10/23/2025 12:36	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	10/21/2025 14:42	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	10/22/2025 14:55	KMS	A
Chloride	72.7		mg/L	2.0	EPA 300.0	2	10/21/2025 13:54	J1W	B
Fluoride	ND	ND,2	mg/L	0.20	EPA 300.0	2	10/21/2025 13:54	J1W	B
Nitrate-N	7.9		mg/L	1.0	EPA 300.0	2	10/21/2025 13:54	J1W	B
pH	7.32	3	pH_Units		S4500HB-11	1	10/23/2025 12:36	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 15:12	AKH	G
Specific Conductance	355		umhos/cm	5	SW846 9050A	1	10/24/2025 10:15	MJO	B
Sulfate	6.3		mg/L	2.0	EPA 300.0	2	10/21/2025 13:54	J1W	B
Total Dissolved Solids	224		mg/L	25	SM2540C-15	1	10/24/2025 18:00	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	10/25/2025 03:29	PAG	E
Turbidity	3.0		NTU	0.30	SM2130B-2011	1	10/21/2025 10:48	NPF	B

Results

Client Sample ID	Trip Blank	Collected	10/20/2025 00:00
Lab Sample ID	3440096005	Lab Receipt	10/20/2025 15:30

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	10/22/2025 00:21	IXK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:21	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	10/22/2025 00:21	
4-Bromofluorobenzene	460-00-4	106%	79 – 114	10/22/2025 00:21	
Dibromofluoromethane	1868-53-7	103%	78 – 116	10/22/2025 00:21	
Toluene-d8	2037-26-5	106%	76 – 127	10/22/2025 00:21	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3440096001	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	
3440096002	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	
3440096003	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	
3440096005	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
3440096001	CWMP001W	N/A	N/A	N/A		Field	1482261
		SW846 3015A	1479320	10/21/2025 14:55	AAJ	SW846 6010C	1481470
		N/A	N/A	N/A		SW846 8260B	1479390
		N/A	N/A	N/A		EPA 300.0	1479205
		N/A	N/A	N/A		EPA 410.4	1479453
		N/A	N/A	N/A		S4500HB-11	1479568
		N/A	N/A	N/A		SM 4500-NH3G	1479246
		N/A	N/A	N/A		SM2130B-2011	1479208
		N/A	N/A	N/A		SM2320B-2011	1479568
		N/A	N/A	N/A		SM2540C-15	1479971
		N/A	N/A	N/A		SW846 9050A	1479718
		N/A	N/A	N/A		SW846 9060A	1480005
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278
3440096002	CWMP007W	N/A	N/A	N/A		Field	1482261
		SW846 3015A	1479320	10/21/2025 14:55	AAJ	SW846 6010C	1481470
		N/A	N/A	N/A		SW846 8260B	1479390
		N/A	N/A	N/A		EPA 300.0	1479205
		N/A	N/A	N/A		EPA 410.4	1479453
		N/A	N/A	N/A		S4500HB-11	1479568
		N/A	N/A	N/A		SM 4500-NH3G	1479246
		N/A	N/A	N/A		SM2130B-2011	1479208
		N/A	N/A	N/A		SM2320B-2011	1479568
		N/A	N/A	N/A		SM2540C-15	1479971
		N/A	N/A	N/A		SW846 9050A	1479718
		N/A	N/A	N/A		SW846 9060A	1480005
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278
3440096003	CWMP005W	N/A	N/A	N/A		Field	1482261
		SW846 3015A	1479320	10/21/2025 14:55	AAJ	SW846 6010C	1481470
		N/A	N/A	N/A		SW846 8260B	1479390
		N/A	N/A	N/A		EPA 300.0	1479205
		N/A	N/A	N/A		EPA 410.4	1479453
		N/A	N/A	N/A		S4500HB-11	1479568
		N/A	N/A	N/A		SM 4500-NH3G	1479246
		N/A	N/A	N/A		SM2130B-2011	1479208
		N/A	N/A	N/A		SM2320B-2011	1479568
		N/A	N/A	N/A		SM2540C-15	1479971
		N/A	N/A	N/A		SW846 9050A	1479718
		N/A	N/A	N/A		SW846 9060A	1480005
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278
3440096005	Trip Blank	N/A	N/A	N/A		SW846 8260B	1479390

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.

3440096
Logged By: SLS
PM: SJB

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~~ HCl	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 CWMP001W	10.20.25	1017		G	GW	2	1	3	1	1	x	x	1	2
2 CWMP007W	10.20.25	0958												
3 CWMP005W	10.20.25	1022												
4 CWMP004W	10.20.25	1354												
5 trip blank	10.20.25	NA						3						
6														
7														
8														
9														
10														

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

Comments:

Date:	Time	Relinquished By / Company Name		Received By / Company Name	
10.20.25	1530	1 (ALS) EP		2 MRTS	
		3		4	
		5		6	
		7		8	
		9		10	

(y Receiving Lab)
WO Temp (°C)

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

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

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech.

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

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

PWS Contact:_____ PWS Phone #:_____

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

Sample/COC Remarks
MOVED TO MP 10/20/25
3440202 Sent attached email

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

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

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

Middletown Sample Condition Form

Client lancaster county solid waste MA Workorder 3400096

Temp °C 3 Therm ID 569 Ice? (Y) N N/A Initials & Date MP 10/20/25

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		✓		UC
•Number of containers		✓		UC
•Composite or grab		✓		UC
•Matrix		✓		UC
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:

_____

_____

_____

Susan Scherer

From: Ashley Gichuki <agichuki@lcswma.org>
Sent: Tuesday, October 21, 2025 2:42 PM
To: Susan Scherer
Cc: Jordan McConathey; Daniel Brown
Subject: [EXTERNAL] - Re: [EXTERNAL]WO 3440096 - Sample on COC CWMP004W is CWOB04RW

CAUTION: This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

Hi Sue,
Yes please change CWMP004W to CWOB04RW on the chain of custody, and yes, it is preferred to have the River Road on a separate report. Have a wonderful afternoon.

Thanks,
Ashley

LCSWMA
Recover. Renew.
Ashley Gichuki
Environmental Field Specialist
Phone: 717-874-4428

From: Susan Scherer <Susan.Scherer@ALSGlobal.com>
Sent: Tuesday, October 21, 2025 1:33 PM
To: Ashley Gichuki <agichuki@lcswma.org>
Cc: Jordan McConathey <jmcconathey@lcswma.org>; Daniel Brown <dbrown@lcswma.org>
Subject: [EXTERNAL]WO 3440096 - Sample on COC CWMP004W is CWOB04RW

CAUTION: This email originated from outside of LCSWMA. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Ashely,
Will you please confirm the following changes to the chain of custody submitted from yesterday's field sampling effort?

- Change CWMP004W to CWOB04RW
- Change the analysis from Form 19Q analysis to only VOCs (River Road list)

Also wondering if it is OK to leave all samples on the same COC for one final report. Or is it preferred to have the River Road on a separate report?

Thank you!

19 of 19
10/31/2025 6:36 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 4th QTR 2025 GWMP-FORM 19Q
Workorder 3440209
Report ID 472295 on 10/31/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Oct 21, 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
3440209001	Field Blank	Water	10/21/2025 09:50	10/21/2025 15:30	EMP	ALS Environmental-Middletown
3440209002	Trip Blank	Water	10/21/2025 00:00	10/21/2025 15:30	EMP	ALS Environmental-Middletown
3440209003	CWMP016W	Ground Water	10/21/2025 10:04	10/21/2025 15:30	EMP	ALS Environmental-Middletown
3440209004	CWMP010W	Ground Water	10/21/2025 11:05	10/21/2025 15:30	EMP	ALS Environmental-Middletown
3440209005	CWMP009W	Ground Water	10/21/2025 11:48	10/21/2025 15:30	EMP	ALS Environmental-Middletown
3440209006	CWMP008W	Ground Water	10/21/2025 12:26	10/21/2025 15:30	EMP	ALS Environmental-Middletown
3440209007	CWMP018S	Ground Water	10/21/2025 12:51	10/21/2025 15:30	EMP	ALS Environmental-Middletown
3440209008	CWMP017S	Ground Water	10/21/2025 13:09	10/21/2025 15:30	EMP	ALS Environmental-Middletown

Reference

Notes

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

Standard Acronyms/Flags

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

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The QC sample type LCS for method EPA 300.0 was outside the control limits for the analyte Fluoride. The % Recovery was reported as 111 and the control limits were 90 to 110. The reported fluoride result is 0.
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
4	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 56.8 and the control limits were 80 to 120.
5	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 49.9 and the control limits were 80 to 120.

Detected Results Summary

Client Sample ID	Field Blank	Collected	10/21/2025 09:50
Lab Sample ID	3440209001	Lab Receipt	10/21/2025 15:30

Compound	Result	Units	RDL	Method	Flag
VOLATILE ORGANICS					
Methylene Chloride	1.0	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
pH	5.79	pH_Units		S4500HB-11	#
Turbidity	2.6	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP016W	Collected	10/21/2025 10:04
Lab Sample ID	3440209003	Lab Receipt	10/21/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	15.00	Feet		Field	#
Dissolved Oxygen	8.70	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	311.97	Feet		Field	#
Flow Rate	1.80	gal/min		Field	#
Ground Water Elevation	296.97	ft/MSL		Field	#
Oxidation-Reduction Potential	321	mV		Field	#
pH, Field (SM4500B)	5.11	pH_Units		Field	#
Sample Depth	71.00	Feet		Field	#
Specific Conductance, Field	67	umhos/cm	1	Field	#
Temperature	12.63	Deg. C		Field	#
Total Well Depth	73.52	Feet		Field	#
Turbidity, Field	4	NTU	1	Field	#
Volume in Water Column	86.02	Gallons		Field	#
Water Level After Purge	20.03	Feet		Field	#
Well Volumes Purged	1.05	Vol		Field	#
METALS					
Calcium, Total	6.2	mg/L	0.11	SW846 6010C	#
Iron, Total	0.47	mg/L	0.067	SW846 6010C	#
Magnesium, Total	1.4	mg/L	0.11	SW846 6010C	#
Potassium, Total	0.58	mg/L	0.56	SW846 6010C	#
Sodium, Total	3.9	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	10	mg/L	5	SM2320B-2011	#
Alkalinity, Total	10	mg/L	5	SM2320B-2011	#
Chloride	2.8	mg/L	2.0	EPA 300.0	#
Nitrate-N	2.1	mg/L	1.0	EPA 300.0	#
pH	7.19	pH_Units		S4500HB-11	#
Specific Conductance	67	umhos/cm	5	SW846 9050A	#
Sulfate	8.6	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	61	mg/L	25	SM2540C-15	#
Turbidity	7.9	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP010W	Collected	10/21/2025 11:05
Lab Sample ID	3440209004	Lab Receipt	10/21/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	8.58	Feet		Field	#
Dissolved Oxygen	4.87	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	360.90	Feet		Field	#
Flow Rate	0.07	gal/min		Field	#
Ground Water Elevation	352.32	ft/MSL		Field	#
Oxidation-Reduction Potential	256	mV		Field	#
pH, Field (SM4500B)	6.82	pH_Units		Field	#
Sample Depth	18.00	Feet		Field	#
Specific Conductance, Field	2124	umhos/cm	1	Field	#
Temperature	15.71	Deg. C		Field	#
Total Well Depth	19.60	Feet		Field	#
Turbidity, Field	5	NTU	1	Field	#
Volume in Water Column	7.16	Gallons		Field	#
Water Level After Purge	12.21	Feet		Field	#
Well Volumes Purged	0.29	Vol		Field	#
METALS					
Calcium, Total	82.3	mg/L	0.11	SW846 6010C	#
Iron, Total	0.17	mg/L	0.067	SW846 6010C	#
Magnesium, Total	69.5	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.26	mg/L	0.0056	SW846 6010C	#
Potassium, Total	18.8	mg/L	0.56	SW846 6010C	#
Sodium, Total	242	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	151	mg/L	5	SM2320B-2011	#
Alkalinity, Total	340	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	0.30	mg/L	0.10	SM 4500-NH3G	#
Chemical Oxygen Demand (COD)	20	mg/L	15	EPA 410.4	#
Chloride	442	mg/L	5.0	EPA 300.0	#
Nitrate-N	13.6	mg/L	2.5	EPA 300.0	#
pH	8.27	pH_Units		S4500HB-11	#
Specific Conductance	2150	umhos/cm	5	SW846 9050A	#
Sulfate	37.2	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	1170	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	6.5	mg/L	0.50	SW846 9060A	#
Turbidity	3.6	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP009W	Collected	10/21/2025 11:48
Lab Sample ID	3440209005	Lab Receipt	10/21/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	9.27	Feet		Field	#
Dissolved Oxygen	0.06	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	404.20	Feet		Field	#
Flow Rate	0.97	gal/min		Field	#
Ground Water Elevation	394.93	ft/MSL		Field	#
Oxidation-Reduction Potential	-47	mV		Field	#
pH, Field (SM4500B)	6.12	pH_Units		Field	#
Sample Depth	16.00	Feet		Field	#
Specific Conductance, Field	3302	umhos/cm	1	Field	#
Temperature	15.63	Deg. C		Field	#
Total Well Depth	19.70	Feet		Field	#
Volume in Water Column	6.78	Gallons		Field	#
Water Level After Purge	10.24	Feet		Field	#
Well Volumes Purged	1.43	Vol		Field	#
METALS					
Calcium, Total	207	mg/L	0.11	SW846 6010C	#
Iron, Total	41.4	mg/L	0.067	SW846 6010C	#
Magnesium, Total	91.5	mg/L	0.11	SW846 6010C	#
Manganese, Total	14.5	mg/L	0.0056	SW846 6010C	#
Potassium, Total	36.7	mg/L	0.56	SW846 6010C	#
Sodium, Total	252	mg/L	0.56	SW846 6010C	#
VOLATILE ORGANICS					
Benzene	1.3	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	543	mg/L	50	SM2320B-2011	#
Alkalinity, Total	543	mg/L	50	SM2320B-2011	#
Ammonia-N, Low Level	28.3	mg/L	1.00	SM 4500-NH3G	#
Chemical Oxygen Demand (COD)	119	mg/L	15	EPA 410.4	#
Chloride	759	mg/L	10.0	EPA 300.0	#
pH	8.19	pH_Units		S4500HB-11	#
Specific Conductance	3300	umhos/cm	5	SW846 9050A	#
Sulfate	7.7	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	1920	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	43.0	mg/L	5.0	SW846 9060A	#
Turbidity	40	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP008W	Collected	10/21/2025 12:26
Lab Sample ID	3440209006	Lab Receipt	10/21/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	3.61	Feet		Field	#
Dissolved Oxygen	0.60	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	422.30	Feet		Field	#
Flow Rate	0.07	gal/min		Field	#
Ground Water Elevation	418.69	ft/MSL		Field	#
Oxidation-Reduction Potential	-25	mV		Field	#
pH, Field (SM4500B)	6.26	pH_Units		Field	#
Sample Depth	22.00	Feet		Field	#
Specific Conductance, Field	983	umhos/cm	1	Field	#
Temperature	16.38	Deg. C		Field	#
Total Well Depth	22.80	Feet		Field	#
Turbidity, Field	13	NTU	1	Field	#
Volume in Water Column	3.07	Gallons		Field	#
Water Level After Purge	4.84	Feet		Field	#
Well Volumes Purged	0.39	Vol		Field	#
METALS					
Calcium, Total	73.3	mg/L	0.11	SW846 6010C	#
Iron, Total	23.6	mg/L	0.067	SW846 6010C	#
Magnesium, Total	34.0	mg/L	0.11	SW846 6010C	#
Manganese, Total	15.3	mg/L	0.0056	SW846 6010C	#
Potassium, Total	9.9	mg/L	0.56	SW846 6010C	#
Sodium, Total	58.5	mg/L	0.56	SW846 6010C	#
VOLATILE ORGANICS					
1,1-Dichloroethane	1.2	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	455	mg/L	50	SM2320B-2011	#
Alkalinity, Total	455	mg/L	50	SM2320B-2011	#
Ammonia-N, Low Level	6.57	mg/L	0.50	SM 4500-NH3G	#
Chemical Oxygen Demand (COD)	39	mg/L	15	EPA 410.4	#
Chloride	60.5	mg/L	2.0	EPA 300.0	#
pH	8.51	pH_Units		S4500HB-11	#
Specific Conductance	971	umhos/cm	5	SW846 9050A	#
Sulfate	4.7	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	548	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	12.2	mg/L	1.0	SW846 9060A	#
Turbidity	23	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP018S	Collected	10/21/2025 12:51
Lab Sample ID	3440209007	Lab Receipt	10/21/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	10.00	mg/L	0.01	Field	#
Oxidation-Reduction Potential	-90	mV		Field	#
pH, Field (SM4500B)	8.53	pH_Units		Field	#
Specific Conductance, Field	2763	umhos/cm	1	Field	#
Temperature	13.91	Deg. C		Field	#
Turbidity, Field	3	NTU	1	Field	#
METALS					
Calcium, Total	97.7	mg/L	0.11	SW846 6010C	#
Iron, Total	0.26	mg/L	0.067	SW846 6010C	#
Magnesium, Total	86.7	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.061	mg/L	0.0056	SW846 6010C	#
Potassium, Total	23.4	mg/L	0.56	SW846 6010C	#
Sodium, Total	376	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	505	mg/L	50	SM2320B-2011	#
Alkalinity, Total	505	mg/L	50	SM2320B-2011	#
Chemical Oxygen Demand (COD)	22	mg/L	15	EPA 410.4	#
Chloride	588	mg/L	10.0	EPA 300.0	#
Nitrate-N	18.2	mg/L	2.5	EPA 300.0	#
pH	8.71	pH_Units		S4500HB-11	#
Specific Conductance	2810	umhos/cm	5	SW846 9050A	#
Sulfate	69.4	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	1570	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	8.5	mg/L	2.5	SW846 9060A	#
Turbidity	17	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP017S	Collected	10/21/2025 13:09
Lab Sample ID	3440209008	Lab Receipt	10/21/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	8.53	mg/L	0.01	Field	#
Oxidation-Reduction Potential	0.004	mV		Field	#
pH, Field (SM4500B)	8.12	pH_Units		Field	#
Specific Conductance, Field	3882	umhos/cm	1	Field	#
Temperature	20.40	Deg. C		Field	#
Turbidity, Field	86	NTU	1	Field	#
METALS					
Calcium, Total	110	mg/L	0.11	SW846 6010C	#
Iron, Total	0.77	mg/L	0.067	SW846 6010C	#
Magnesium, Total	115	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.24	mg/L	0.0056	SW846 6010C	#
Potassium, Total	26.3	mg/L	0.56	SW846 6010C	#
Sodium, Total	498	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	657	mg/L	50	SM2320B-2011	#
Alkalinity, Total	657	mg/L	50	SM2320B-2011	#
Chemical Oxygen Demand (COD)	18	mg/L	15	EPA 410.4	#
Chloride	765	mg/L	10.0	EPA 300.0	#
Nitrate-N	25.2	mg/L	2.5	EPA 300.0	#
pH	8.73	pH_Units		S4500HB-11	#
Specific Conductance	3660	umhos/cm	5	SW846 9050A	#
Sulfate	127	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	2090	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	5.1	mg/L	0.50	SW846 9060A	#
Turbidity	4.3	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	Field Blank	Collected	10/21/2025 09:50
Lab Sample ID	3440209001	Lab Receipt	10/21/2025 15:30

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	ND	ND	mg/L	0.11	SW846 6010C	1	10/30/2025 14:03	MSY	K1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	10/30/2025 14:03	MSY	K1
Magnesium, Total	ND	ND	mg/L	0.11	SW846 6010C	1	10/30/2025 14:03	MSY	K1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6010C	1	10/30/2025 14:03	MSY	K1
Potassium, Total	ND	ND	mg/L	0.56	SW846 6010C	1	10/30/2025 14:03	MSY	K1
Sodium, Total	ND	ND	mg/L	0.56	SW846 6010C	1	10/30/2025 14:03	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	10/21/2025 23:41	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
Methylene Chloride	1.0		ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/21/2025 23:41	IXK	H

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	10/21/2025 23:41	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	10/21/2025 23:41	
Dibromofluoromethane	1868-53-7	103%	78 – 116	10/21/2025 23:41	
Toluene-d8	2037-26-5	105%	76 – 127	10/21/2025 23:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	ND	ND	mg/L	5	SM2320B-2011	1	10/23/2025 15:16	JXK	B
Alkalinity, Total	ND	ND,1	mg/L	5	SM2320B-2011	1	10/23/2025 15:16	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	10/23/2025 16:32	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	10/23/2025 11:45	KMS	A
Chloride	ND	ND	mg/L	2.0	EPA 300.0	2	10/22/2025 12:14	J1W	B
Fluoride	ND	ND,2	mg/L	0.20	EPA 300.0	2	10/22/2025 12:14	J1W	B
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	10/22/2025 12:14	J1W	B
pH	5.79	3	pH_Units		S4500HB-11	1	10/23/2025 15:16	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 16:42	AKH	G

Results

Client Sample ID	Field Blank	Collected	10/21/2025 09:50
Lab Sample ID	3440209001	Lab Receipt	10/21/2025 15:30

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	10/24/2025 10:15	MJO	B
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	10/22/2025 12:14	J1W	B
Total Dissolved Solids	ND	ND	mg/L	25	SM2540C-15	1	10/24/2025 18:45	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	10/28/2025 03:23	PAG	E
Turbidity	2.6		NTU	0.30	SM2130B-2011	1	10/22/2025 14:14	NPF	B

Results

Client Sample ID	Trip Blank	Collected	10/21/2025 00:00
Lab Sample ID	3440209002	Lab Receipt	10/21/2025 15:30

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	10/22/2025 00:01	IXK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 00:01	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	10/22/2025 00:01	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	10/22/2025 00:01	
Dibromofluoromethane	1868-53-7	103%	78 – 116	10/22/2025 00:01	
Toluene-d8	2037-26-5	106%	76 – 127	10/22/2025 00:01	

Results

Client Sample ID	CWMP016W	Collected	10/21/2025 10:04
Lab Sample ID	3440209003	Lab Receipt	10/21/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	15.00		Feet		Field	1	10/21/2025 10:04	EMP	D
Dissolved Oxygen	8.70		mg/L	0.01	Field	1	10/21/2025 10:04	EMP	D
Elev Top MW Casing above MSL	311.97		Feet		Field	1	10/21/2025 10:04	EMP	D
Flow Rate	1.80		gal/min		Field	1	10/21/2025 10:04	EMP	D
Ground Water Elevation	296.97		ft/MSL		Field	1	10/21/2025 10:04	EMP	D
Oxidation-Reduction Potential	321		mV		Field	1	10/21/2025 10:04	EMP	D
pH, Field (SM4500B)	5.11		pH_Units		Field	1	10/21/2025 10:04	EMP	D
Sample Depth	71.00		Feet		Field	1	10/21/2025 10:04	EMP	D
Specific Conductance, Field	67		umhos/cm	1	Field	1	10/21/2025 10:04	EMP	D
Temperature	12.63		Deg. C		Field	1	10/21/2025 10:04	EMP	D
Total Well Depth	73.52		Feet		Field	1	10/21/2025 10:04	EMP	D
Turbidity, Field	4		NTU	1	Field	1	10/21/2025 10:04	EMP	D
Volume in Water Column	86.02		Gallons		Field	1	10/21/2025 10:04	EMP	D
Water Level After Purge	20.03		Feet		Field	1	10/21/2025 10:04	EMP	D
Well Volumes Purged	1.05		Vol		Field	1	10/21/2025 10:04	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	6.2		mg/L	0.11	SW846 6010C	1	10/30/2025 14:20	MSY	K1
Iron, Total	0.47		mg/L	0.067	SW846 6010C	1	10/30/2025 14:20	MSY	K1
Magnesium, Total	1.4		mg/L	0.11	SW846 6010C	1	10/30/2025 14:20	MSY	K1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6010C	1	10/30/2025 14:20	MSY	K1
Potassium, Total	0.58		mg/L	0.56	SW846 6010C	1	10/30/2025 14:20	MSY	K1
Sodium, Total	3.9		mg/L	0.56	SW846 6010C	1	10/30/2025 14:20	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	10/22/2025 01:23	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:23	IXK	H

Results

Client Sample ID	CWMP016W	Collected	10/21/2025 10:04
Lab Sample ID	3440209003	Lab Receipt	10/21/2025 15:30

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	102%	62 – 133	10/22/2025 01:23	
4-Bromofluorobenzene	460-00-4	105%	79 – 114	10/22/2025 01:23	
Dibromofluoromethane	1868-53-7	101%	78 – 116	10/22/2025 01:23	
Toluene-d8	2037-26-5	105%	76 – 127	10/22/2025 01:23	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	10		mg/L	5	SM2320B-2011	1	10/23/2025 15:29	JXK	B
Alkalinity, Total	10	1	mg/L	5	SM2320B-2011	1	10/23/2025 15:29	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	10/23/2025 16:42	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	10/23/2025 11:45	KMS	A
Chloride	2.8		mg/L	2.0	EPA 300.0	2	10/22/2025 12:27	J1W	B
Fluoride	ND	ND,2	mg/L	0.20	EPA 300.0	2	10/22/2025 12:27	J1W	B
Nitrate-N	2.1		mg/L	1.0	EPA 300.0	2	10/22/2025 12:27	J1W	B
pH	7.19	3	pH_Units		S4500HB-11	1	10/23/2025 15:29	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 15:43	AKH	G
Specific Conductance	67		umhos/cm	5	SW846 9050A	1	10/24/2025 10:15	MJO	B
Sulfate	8.6		mg/L	2.0	EPA 300.0	2	10/22/2025 12:27	J1W	B
Total Dissolved Solids	61		mg/L	25	SM2540C-15	1	10/24/2025 18:45	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	10/28/2025 03:23	PAG	E
Turbidity	7.9		NTU	0.30	SM2130B-2011	1	10/22/2025 14:14	NPF	B

Results

Client Sample ID	CWMP010W	Collected	10/21/2025 11:05
Lab Sample ID	3440209004	Lab Receipt	10/21/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	8.58		Feet		Field	1	10/21/2025 11:05	EMP	D
Dissolved Oxygen	4.87		mg/L	0.01	Field	1	10/21/2025 11:05	EMP	D
Elev Top MW Casing above MSL	360.90		Feet		Field	1	10/21/2025 11:05	EMP	D
Flow Rate	0.07		gal/min		Field	1	10/21/2025 11:05	EMP	D
Ground Water Elevation	352.32		ft/MSL		Field	1	10/21/2025 11:05	EMP	D
Oxidation-Reduction Potential	256		mV		Field	1	10/21/2025 11:05	EMP	D
pH, Field (SM4500B)	6.82		pH_Units		Field	1	10/21/2025 11:05	EMP	D
Sample Depth	18.00		Feet		Field	1	10/21/2025 11:05	EMP	D
Specific Conductance, Field	2124		umhos/cm	1	Field	1	10/21/2025 11:05	EMP	D
Temperature	15.71		Deg. C		Field	1	10/21/2025 11:05	EMP	D
Total Well Depth	19.60		Feet		Field	1	10/21/2025 11:05	EMP	D
Turbidity, Field	5		NTU	1	Field	1	10/21/2025 11:05	EMP	D
Volume in Water Column	7.16		Gallons		Field	1	10/21/2025 11:05	EMP	D
Water Level After Purge	12.21		Feet		Field	1	10/21/2025 11:05	EMP	D
Well Volumes Purged	0.29		Vol		Field	1	10/21/2025 11:05	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	82.3		mg/L	0.11	SW846 6010C	1	10/30/2025 14:22	MSY	K1
Iron, Total	0.17		mg/L	0.067	SW846 6010C	1	10/30/2025 14:22	MSY	K1
Magnesium, Total	69.5		mg/L	0.11	SW846 6010C	1	10/30/2025 14:22	MSY	K1
Manganese, Total	0.26		mg/L	0.0056	SW846 6010C	1	10/30/2025 14:22	MSY	K1
Potassium, Total	18.8		mg/L	0.56	SW846 6010C	1	10/30/2025 14:22	MSY	K1
Sodium, Total	242		mg/L	0.56	SW846 6010C	1	10/30/2025 14:22	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	10/22/2025 01:43	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 01:43	IXK	H

Results

Client Sample ID	CWMP010W	Collected	10/21/2025 11:05
Lab Sample ID	3440209004	Lab Receipt	10/21/2025 15:30

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	102%	62 – 133	10/22/2025 01:43	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	10/22/2025 01:43	
Dibromofluoromethane	1868-53-7	101%	78 – 116	10/22/2025 01:43	
Toluene-d8	2037-26-5	103%	76 – 127	10/22/2025 01:43	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	151		mg/L	5	SM2320B-2011	1	10/25/2025 05:21	JXK	B
Alkalinity, Total	340	1	mg/L	5	SM2320B-2011	1	10/25/2025 05:21	JXK	B
Ammonia-N, Low Level	0.30		mg/L	0.10	SM 4500-NH3G	1	10/23/2025 16:13	AYS	A
Chemical Oxygen Demand (COD)	20		mg/L	15	EPA 410.4	1	10/23/2025 11:45	KMS	A
Chloride	442		mg/L	5.0	EPA 300.0	5	10/22/2025 12:39	J1W	B
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	10/23/2025 20:22	J1W	B
Nitrate-N	13.6		mg/L	2.5	EPA 300.0	5	10/22/2025 12:39	J1W	B
pH	8.27	3	pH_Units		S4500HB-11	1	10/25/2025 05:21	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 16:45	AKH	G
Specific Conductance	2150		umhos/cm	5	SW846 9050A	1	10/24/2025 10:15	MJO	B
Sulfate	37.2		mg/L	5.0	EPA 300.0	5	10/22/2025 12:39	J1W	B
Total Dissolved Solids	1170		mg/L	25	SM2540C-15	1	10/24/2025 18:45	RAG	B
Total Organic Carbon (TOC)	6.5		mg/L	0.50	SW846 9060A	1	10/28/2025 03:23	PAG	E
Turbidity	3.6		NTU	0.30	SM2130B-2011	1	10/22/2025 14:14	NPF	B

Results

Client Sample ID	CWMP009W	Collected	10/21/2025 11:48
Lab Sample ID	3440209005	Lab Receipt	10/21/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	9.27		Feet		Field	1	10/21/2025 11:48	EMP	D
Dissolved Oxygen	0.06		mg/L	0.01	Field	1	10/21/2025 11:48	EMP	D
Elev Top MW Casing above MSL	404.20		Feet		Field	1	10/21/2025 11:48	EMP	D
Flow Rate	0.97		gal/min		Field	1	10/21/2025 11:48	EMP	D
Ground Water Elevation	394.93		ft/MSL		Field	1	10/21/2025 11:48	EMP	D
Oxidation-Reduction Potential	-47		mV		Field	1	10/21/2025 11:48	EMP	D
pH, Field (SM4500B)	6.12		pH_Units		Field	1	10/21/2025 11:48	EMP	D
Sample Depth	16.00		Feet		Field	1	10/21/2025 11:48	EMP	D
Specific Conductance, Field	3302		umhos/cm	1	Field	1	10/21/2025 11:48	EMP	D
Temperature	15.63		Deg. C		Field	1	10/21/2025 11:48	EMP	D
Total Well Depth	19.70		Feet		Field	1	10/21/2025 11:48	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	10/21/2025 11:48	EMP	D
Volume in Water Column	6.78		Gallons		Field	1	10/21/2025 11:48	EMP	D
Water Level After Purge	10.24		Feet		Field	1	10/21/2025 11:48	EMP	D
Well Volumes Purged	1.43		Vol		Field	1	10/21/2025 11:48	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	207		mg/L	0.11	SW846 6010C	1	10/30/2025 14:27	MSY	K1
Iron, Total	41.4		mg/L	0.067	SW846 6010C	1	10/30/2025 14:27	MSY	K1
Magnesium, Total	91.5		mg/L	0.11	SW846 6010C	1	10/30/2025 14:27	MSY	K1
Manganese, Total	14.5		mg/L	0.0056	SW846 6010C	1	10/30/2025 14:27	MSY	K1
Potassium, Total	36.7		mg/L	0.56	SW846 6010C	1	10/30/2025 14:27	MSY	K1
Sodium, Total	252		mg/L	0.56	SW846 6010C	1	10/30/2025 14:27	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	10/22/2025 02:03	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
Benzene	1.3		ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:03	IXK	H

Results

Client Sample ID	CWMP009W	Collected	10/21/2025 11:48
Lab Sample ID	3440209005	Lab Receipt	10/21/2025 15:30

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	10/22/2025 02:03	
4-Bromofluorobenzene	460-00-4	109%	79 – 114	10/22/2025 02:03	
Dibromofluoromethane	1868-53-7	103%	78 – 116	10/22/2025 02:03	
Toluene-d8	2037-26-5	107%	76 – 127	10/22/2025 02:03	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	543		mg/L	50	SM2320B-2011	10	10/25/2025 05:33	JXK	B
Alkalinity, Total	543	1	mg/L	50	SM2320B-2011	10	10/25/2025 05:33	JXK	B
Ammonia-N, Low Level	28.3		mg/L	1.00	SM 4500-NH3G	10	10/27/2025 19:39	AYS	A
Chemical Oxygen Demand (COD)	119		mg/L	15	EPA 410.4	1	10/23/2025 11:45	KMS	A
Chloride	759		mg/L	10.0	EPA 300.0	10	10/23/2025 20:35	J1W	B
Fluoride	ND	ND	mg/L	1.0	EPA 300.0	10	10/23/2025 20:35	J1W	B
Nitrate-N	ND	ND	mg/L	2.5	EPA 300.0	5	10/22/2025 12:51	J1W	B
pH	8.19	3	pH_Units		S4500HB-11	1	10/27/2025 13:53	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 16:25	AKH	G
Specific Conductance	3300		umhos/cm	5	SW846 9050A	1	10/24/2025 10:15	MJO	B
Sulfate	7.7		mg/L	5.0	EPA 300.0	5	10/22/2025 12:51	J1W	B
Total Dissolved Solids	1920		mg/L	25	SM2540C-15	1	10/24/2025 18:45	RAG	B
Total Organic Carbon (TOC)	43.0		mg/L	5.0	SW846 9060A	10	10/28/2025 03:23	PAG	E
Turbidity	40		NTU	0.30	SM2130B-2011	1	10/22/2025 14:14	NPF	B

Results

Client Sample ID	CWMP008W	Collected	10/21/2025 12:26
Lab Sample ID	3440209006	Lab Receipt	10/21/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	3.61		Feet		Field	1	10/21/2025 12:26	EMP	D
Dissolved Oxygen	0.60		mg/L	0.01	Field	1	10/21/2025 12:26	EMP	D
Elev Top MW Casing above MSL	422.30		Feet		Field	1	10/21/2025 12:26	EMP	D
Flow Rate	0.07		gal/min		Field	1	10/21/2025 12:26	EMP	D
Ground Water Elevation	418.69		ft/MSL		Field	1	10/21/2025 12:26	EMP	D
Oxidation-Reduction Potential	-25		mV		Field	1	10/21/2025 12:26	EMP	D
pH, Field (SM4500B)	6.26		pH_Units		Field	1	10/21/2025 12:26	EMP	D
Sample Depth	22.00		Feet		Field	1	10/21/2025 12:26	EMP	D
Specific Conductance, Field	983		umhos/cm	1	Field	1	10/21/2025 12:26	EMP	D
Temperature	16.38		Deg. C		Field	1	10/21/2025 12:26	EMP	D
Total Well Depth	22.80		Feet		Field	1	10/21/2025 12:26	EMP	D
Turbidity, Field	13		NTU	1	Field	1	10/21/2025 12:26	EMP	D
Volume in Water Column	3.07		Gallons		Field	1	10/21/2025 12:26	EMP	D
Water Level After Purge	4.84		Feet		Field	1	10/21/2025 12:26	EMP	D
Well Volumes Purged	0.39		Vol		Field	1	10/21/2025 12:26	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	73.3		mg/L	0.11	SW846 6010C	1	10/30/2025 14:24	MSY	K1
Iron, Total	23.6		mg/L	0.067	SW846 6010C	1	10/30/2025 14:24	MSY	K1
Magnesium, Total	34.0		mg/L	0.11	SW846 6010C	1	10/30/2025 14:24	MSY	K1
Manganese, Total	15.3		mg/L	0.0056	SW846 6010C	1	10/30/2025 14:24	MSY	K1
Potassium, Total	9.9		mg/L	0.56	SW846 6010C	1	10/30/2025 14:24	MSY	K1
Sodium, Total	58.5		mg/L	0.56	SW846 6010C	1	10/30/2025 14:24	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	10/22/2025 02:24	IXK	H
1,1-Dichloroethane	1.2		ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:24	IXK	H

Results

Client Sample ID	CWMP008W	Collected	10/21/2025 12:26
Lab Sample ID	3440209006	Lab Receipt	10/21/2025 15:30

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	10/22/2025 02:24	
4-Bromofluorobenzene	460-00-4	107%	79 – 114	10/22/2025 02:24	
Dibromofluoromethane	1868-53-7	104%	78 – 116	10/22/2025 02:24	
Toluene-d8	2037-26-5	105%	76 – 127	10/22/2025 02:24	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	455		mg/L	50	SM2320B-2011	10	10/25/2025 06:23	JXK	B
Alkalinity, Total	455	1	mg/L	50	SM2320B-2011	10	10/25/2025 06:23	JXK	B
Ammonia-N, Low Level	6.57		mg/L	0.50	SM 4500-NH3G	5	10/27/2025 19:42	AYS	A
Chemical Oxygen Demand (COD)	39		mg/L	15	EPA 410.4	1	10/23/2025 11:45	KMS	A
Chloride	60.5		mg/L	2.0	EPA 300.0	2	10/22/2025 13:41	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	10/23/2025 20:47	J1W	B
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	10/22/2025 13:41	J1W	B
pH	8.51	3	pH_Units		S4500HB-11	1	10/27/2025 13:55	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 16:22	AKH	G
Specific Conductance	971		umhos/cm	5	SW846 9050A	1	10/24/2025 10:15	MJO	B
Sulfate	4.7		mg/L	2.0	EPA 300.0	2	10/22/2025 13:41	J1W	B
Total Dissolved Solids	548		mg/L	25	SM2540C-15	1	10/24/2025 18:45	RAG	B
Total Organic Carbon (TOC)	12.2		mg/L	1.0	SW846 9060A	2	10/28/2025 03:23	PAG	E
Turbidity	23		NTU	0.30	SM2130B-2011	1	10/22/2025 14:14	NPF	B

Results

Client Sample ID	CWMP018S	Collected	10/21/2025 12:51
Lab Sample ID	3440209007	Lab Receipt	10/21/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	10.00		mg/L	0.01	Field	1	10/21/2025 12:51	SM	D
Oxidation-Reduction Potential	-90		mV		Field	1	10/21/2025 12:51	SM	D
pH, Field (SM4500B)	8.53		pH_Units		Field	1	10/21/2025 12:51	SM	D
Specific Conductance, Field	2763		umhos/cm	1	Field	1	10/21/2025 12:51	SM	D
Temperature	13.91		Deg. C		Field	1	10/21/2025 12:51	SM	D
Turbidity, Field	3		NTU	1	Field	1	10/21/2025 12:51	SM	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	97.7		mg/L	0.11	SW846 6010C	1	10/30/2025 13:59	MSY	K1
Iron, Total	0.26		mg/L	0.067	SW846 6010C	1	10/30/2025 13:59	MSY	K1
Magnesium, Total	86.7		mg/L	0.11	SW846 6010C	1	10/30/2025 13:59	MSY	K1
Manganese, Total	0.061		mg/L	0.0056	SW846 6010C	1	10/30/2025 13:59	MSY	K1
Potassium, Total	23.4		mg/L	0.56	SW846 6010C	1	10/30/2025 13:59	MSY	K1
Sodium, Total	376		mg/L	0.56	SW846 6010C	1	10/30/2025 13:59	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	10/22/2025 02:44	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 02:44	IXK	H

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	10/22/2025 02:44	
4-Bromofluorobenzene	460-00-4	105%	79 – 114	10/22/2025 02:44	
Dibromofluoromethane	1868-53-7	105%	78 – 116	10/22/2025 02:44	
Toluene-d8	2037-26-5	107%	76 – 127	10/22/2025 02:44	

WET CHEMISTRY

Results

Client Sample ID	CWMP018S	Collected	10/21/2025 12:51
Lab Sample ID	3440209007	Lab Receipt	10/21/2025 15:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	505		mg/L	50	SM2320B-2011	10	10/25/2025 06:34	JXK	B
Alkalinity, Total	505	1	mg/L	50	SM2320B-2011	10	10/25/2025 06:34	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	10/23/2025 16:03	AYS	A
Chemical Oxygen Demand (COD)	22		mg/L	15	EPA 410.4	1	10/23/2025 11:45	KMS	A
Chloride	588	4,5	mg/L	10.0	EPA 300.0	10	10/23/2025 21:00	J1W	B
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	10/23/2025 22:02	J1W	B
Nitrate-N	18.2		mg/L	2.5	EPA 300.0	5	10/22/2025 13:54	J1W	B
pH	8.71	3	pH_Units		S4500HB-11	1	10/27/2025 13:58	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 16:02	AKH	G
Specific Conductance	2810		umhos/cm	5	SW846 9050A	1	10/24/2025 10:15	MJO	B
Sulfate	69.4		mg/L	5.0	EPA 300.0	5	10/22/2025 13:54	J1W	B
Total Dissolved Solids	1570		mg/L	25	SM2540C-15	1	10/24/2025 18:45	RAG	B
Total Organic Carbon (TOC)	8.5		mg/L	2.5	SW846 9060A	5	10/28/2025 03:23	PAG	E
Turbidity	17		NTU	0.30	SM2130B-2011	1	10/22/2025 14:14	NPF	B

Results

Client Sample ID	CWMP017S	Collected	10/21/2025 13:09
Lab Sample ID	3440209008	Lab Receipt	10/21/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	8.53		mg/L	0.01	Field	1	10/21/2025 13:09	SM	D
Oxidation-Reduction Potential	0.004		mV		Field	1	10/21/2025 13:09	SM	D
pH, Field (SM4500B)	8.12		pH_Units		Field	1	10/21/2025 13:09	SM	D
Specific Conductance, Field	3882		umhos/cm	1	Field	1	10/21/2025 13:09	SM	D
Temperature	20.40		Deg. C		Field	1	10/21/2025 13:09	SM	D
Turbidity, Field	86		NTU	1	Field	1	10/21/2025 13:09	SM	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	110		mg/L	0.11	SW846 6010C	1	10/30/2025 14:01	MSY	K1
Iron, Total	0.77		mg/L	0.067	SW846 6010C	1	10/30/2025 14:01	MSY	K1
Magnesium, Total	115		mg/L	0.11	SW846 6010C	1	10/30/2025 14:01	MSY	K1
Manganese, Total	0.24		mg/L	0.0056	SW846 6010C	1	10/30/2025 14:01	MSY	K1
Potassium, Total	26.3		mg/L	0.56	SW846 6010C	1	10/30/2025 14:01	MSY	K1
Sodium, Total	498		mg/L	0.56	SW846 6010C	1	10/30/2025 14:01	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	10/22/2025 03:25	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/22/2025 03:25	IXK	H

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	10/22/2025 03:25	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	10/22/2025 03:25	
Dibromofluoromethane	1868-53-7	102%	78 – 116	10/22/2025 03:25	
Toluene-d8	2037-26-5	104%	76 – 127	10/22/2025 03:25	

WET CHEMISTRY

Results

Client Sample ID CWMP017S
Lab Sample ID 3440209008

Collected 10/21/2025 13:09
Lab Receipt 10/21/2025 15:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	657		mg/L	50	SM2320B-2011	10	10/25/2025 06:45	JXK	B
Alkalinity, Total	657	1	mg/L	50	SM2320B-2011	10	10/25/2025 06:45	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	10/23/2025 15:17	AYS	A
Chemical Oxygen Demand (COD)	18		mg/L	15	EPA 410.4	1	10/23/2025 11:45	KMS	A
Chloride	765		mg/L	10.0	EPA 300.0	10	10/23/2025 22:27	J1W	B
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	10/23/2025 22:14	J1W	B
Nitrate-N	25.2		mg/L	2.5	EPA 300.0	5	10/22/2025 14:06	J1W	B
pH	8.73	3	pH_Units		S4500HB-11	1	10/27/2025 14:00	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 15:58	AKH	G
Specific Conductance	3660		umhos/cm	5	SW846 9050A	1	10/24/2025 10:15	MJO	B
Sulfate	127		mg/L	5.0	EPA 300.0	5	10/22/2025 14:06	J1W	B
Total Dissolved Solids	2090		mg/L	25	SM2540C-15	1	10/24/2025 18:45	RAG	B
Total Organic Carbon (TOC)	5.1		mg/L	0.50	SW846 9060A	1	10/28/2025 03:23	PAG	E
Turbidity	4.3		NTU	0.30	SM2130B-2011	1	10/22/2025 14:14	NPF	B

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3440209001	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	
3440209002	Trip Blank	SW846 8260B	N/A	
3440209003	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	
3440209004	CWMP010W	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	
3440209005	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	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3440209006	CWMP008W	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	
3440209007	CWMP018S	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	
3440209008	CWMP017S	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	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3440209001	Field Blank	SW846 3015A	1479635	10/23/2025 09:12	AAJ	SW846 6010C	1479722
		N/A	N/A	N/A		SW846 8260B	1479390
		N/A	N/A	N/A		EPA 300.0	1479408
		N/A	N/A	N/A		EPA 410.4	1479630
		N/A	N/A	N/A		S4500HB-11	1479568
		N/A	N/A	N/A		SM 4500-NH3G	1479617
		N/A	N/A	N/A		SM2130B-2011	1479461
		N/A	N/A	N/A		SM2320B-2011	1479568
		N/A	N/A	N/A		SM2540C-15	1479977
		N/A	N/A	N/A		SW846 9050A	1479718
		N/A	N/A	N/A		SW846 9060A	1481301
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278
3440209002	Trip Blank	N/A	N/A	N/A		SW846 8260B	1479390
3440209003	CWMP016W	N/A	N/A	N/A		Field	1482246
		SW846 3015A	1479635	10/23/2025 09:12	AAJ	SW846 6010C	1479722
		N/A	N/A	N/A		SW846 8260B	1479390
		N/A	N/A	N/A		EPA 300.0	1479408
		N/A	N/A	N/A		EPA 410.4	1479630
		N/A	N/A	N/A		S4500HB-11	1479568
		N/A	N/A	N/A		SM 4500-NH3G	1479617
		N/A	N/A	N/A		SM2130B-2011	1479461
		N/A	N/A	N/A		SM2320B-2011	1479568
		N/A	N/A	N/A		SM2540C-15	1479977
		N/A	N/A	N/A		SW846 9050A	1479718
		N/A	N/A	N/A		SW846 9060A	1481301
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278
3440209004	CWMP010W	N/A	N/A	N/A		Field	1482257
		SW846 3015A	1479635	10/23/2025 09:12	AAJ	SW846 6010C	1479722
		N/A	N/A	N/A		SW846 8260B	1479390
		N/A	N/A	N/A		EPA 300.0	1479408
		N/A	N/A	N/A		EPA 300.0	1479609
		N/A	N/A	N/A		EPA 410.4	1479630
		N/A	N/A	N/A		S4500HB-11	1480032
		N/A	N/A	N/A		SM 4500-NH3G	1479617
		N/A	N/A	N/A		SM2130B-2011	1479461
		N/A	N/A	N/A		SM2320B-2011	1480032
		N/A	N/A	N/A		SM2540C-15	1479977
		N/A	N/A	N/A		SW846 9050A	1479718
		N/A	N/A	N/A		SW846 9060A	1481301
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278
3440209005	CWMP009W	N/A	N/A	N/A		Field	1482246
		SW846 3015A	1479635	10/23/2025 09:12	AAJ	SW846 6010C	1479722
		N/A	N/A	N/A		SW846 8260B	1479390
		N/A	N/A	N/A		EPA 300.0	1479609
		N/A	N/A	N/A		EPA 300.0	1479408
		N/A	N/A	N/A		EPA 410.4	1479630
		N/A	N/A	N/A		S4500HB-11	1481166
		N/A	N/A	N/A		SM 4500-NH3G	1481170
		N/A	N/A	N/A		SM2130B-2011	1479461
		N/A	N/A	N/A		SM2320B-2011	1480032
		N/A	N/A	N/A		SM2540C-15	1479977
		N/A	N/A	N/A		SW846 9050A	1479718
		N/A	N/A	N/A		SW846 9060A	1481301
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3440209006	CWMP008W	N/A	N/A	N/A		Field	1482257
		SW846 3015A	1479635	10/23/2025 09:12	AAJ	SW846 6010C	1479722
		N/A	N/A	N/A		SW846 8260B	1479390
		N/A	N/A	N/A		EPA 300.0	1479408
		N/A	N/A	N/A		EPA 300.0	1479609
		N/A	N/A	N/A		EPA 410.4	1479630
		N/A	N/A	N/A		S4500HB-11	1481166
		N/A	N/A	N/A		SM 4500-NH3G	1481170
		N/A	N/A	N/A		SM2130B-2011	1479461
		N/A	N/A	N/A		SM2320B-2011	1480032
		N/A	N/A	N/A		SM2540C-15	1479977
		N/A	N/A	N/A		SW846 9050A	1479718
		N/A	N/A	N/A		SW846 9060A	1481301
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278
3440209007	CWMP018S	N/A	N/A	N/A		Field	
		SW846 3015A	1479635	10/23/2025 09:12	AAJ	SW846 6010C	1479722
		N/A	N/A	N/A		SW846 8260B	1479390
		N/A	N/A	N/A		EPA 300.0	1479408
		N/A	N/A	N/A		EPA 300.0	1479609
		N/A	N/A	N/A		EPA 410.4	1479630
		N/A	N/A	N/A		S4500HB-11	1481166
		N/A	N/A	N/A		SM 4500-NH3G	1479617
		N/A	N/A	N/A		SM2130B-2011	1479461
		N/A	N/A	N/A		SM2320B-2011	1480032
		N/A	N/A	N/A		SM2540C-15	1479977
		N/A	N/A	N/A		SW846 9050A	1479718
		N/A	N/A	N/A		SW846 9060A	1481301
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278
3440209008	CWMP017S	N/A	N/A	N/A		Field	
		SW846 3015A	1479635	10/23/2025 09:12	AAJ	SW846 6010C	1479722
		N/A	N/A	N/A		SW846 8260B	1479390
		N/A	N/A	N/A		EPA 300.0	1479408
		N/A	N/A	N/A		EPA 300.0	1479609
		N/A	N/A	N/A		EPA 410.4	1479630
		N/A	N/A	N/A		S4500HB-11	1481166
		N/A	N/A	N/A		SM 4500-NH3G	1479617
		N/A	N/A	N/A		SM2130B-2011	1479461
		N/A	N/A	N/A		SM2320B-2011	1480032
		N/A	N/A	N/A		SM2540C-15	1479977
		N/A	N/A	N/A		SW846 9050A	1479718
		N/A	N/A	N/A		SW846 9060A	1481302
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278

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.

3440209
Logged By: SLS
PM: SJB

209 of

(Completed by Receiving Lab)
Temp Taken By: ID: 649 WO Temp (°C) 0

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

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	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	
1	Field Blank	10-21-25	0950		G	GW	2	1	3	1	1	x	x	1	2	
2	Trip Blank	10-21-25	NA						3							
3	CWMP016W	10-21-25	1004				2	1	3	1	1	x	x	1	2	
4	CWMP010W	10-21-25	1105				2	1	3	1	1	x	x	1	2	
5	CWMP009W	10-21-25	1148				2	1	3	1	1	x	x	1	2	
6	CWMP008W	10-21-25	1226				2	1	3	1	1	x	x	1	2	
7	CWMP185	10-21-25	1300	1251			2	1	3	1	1	x	x	1	2	
8	CWMP175	10-21-25	1309				2	1	3	1	1	x	x	1	2	
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
10-21-25	1620	1	(ALS) EP	2	Tahayla 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 Lanc. City Solid Waste. Workorder 3440209

Temp °C 0 Therm ID 649 Ice? (Y) N N/A Initials & Date fkh 10-21-25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present *If not present, must contact PM/client to request name.*				
COC/bottle labels complete & in agreement		(X)		
•Sample location				
•Date and time of sample collection				
•Type(s) of preservation				
•Number of containers				
•Composite or grab		(X)		UC WO 1622725
•Matrix				
Proper containers, preservation, and volume per method				
Received within hold time				
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)	X			
NJ ≤ 4 Days			X	
CR6 Samples Filtered				
OP Samples Filtered				
WV Containers 0-6°C				
SDWA compliance reporting			X	

[1] *If No, provide comment*

Rad Screen (uCi) —

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

Review Comments:

_____

_____

_____

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

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

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

Project 4th QTR 2025 GWMP-FORM 19Q
Workorder 3440388
Report ID 472298 on 10/31/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Oct 22, 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
3440388001	CWMP012W	Ground Water	10/22/2025 09:17	10/22/2025 15:15	EMP	ALS Environmental-Middletown
3440388002	CWMP003W	Ground Water	10/22/2025 12:27	10/22/2025 15:15	EMP	ALS Environmental-Middletown
3440388003	CWMP002W	Ground Water	10/22/2025 14:17	10/22/2025 15:15	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	CWMP012W	Collected	10/22/2025 09:17
Lab Sample ID	3440388001	Lab Receipt	10/22/2025 15:15

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	8.26	mg/L	0.01	Field	#
Oxidation-Reduction Potential	134	mV		Field	#
pH, Field (SM4500B)	8.29	pH_Units		Field	#
Specific Conductance, Field	340	umhos/cm	1	Field	#
Temperature	15.60	Deg. C		Field	#
Turbidity, Field	1	NTU	1	Field	#
METALS					
Calcium, Total	36.5	mg/L	0.11	SW846 6010C	#
Magnesium, Total	1.6	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.029	mg/L	0.0056	SW846 6010C	#
Potassium, Total	43.5	mg/L	0.56	SW846 6010C	#
Sodium, Total	12.0	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	143	mg/L	5	SM2320B-2011	#
Alkalinity, Total	169	mg/L	5	SM2320B-2011	#
Fluoride	0.26	mg/L	0.20	EPA 300.0	#
pH	8.42	pH_Units		S4500HB-11	#
Specific Conductance	342	umhos/cm	5	SW846 9050A	#
Sulfate	2.9	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	258	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	5.1	mg/L	0.50	SW846 9060A	#
Turbidity	1.7	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP003W	Collected	10/22/2025 12:27
Lab Sample ID	3440388002	Lab Receipt	10/22/2025 15:15

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	52.53	Feet		Field	#
Dissolved Oxygen	4.99	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	524.21	Feet		Field	#
Flow Rate	1.81	gal/min		Field	#
Ground Water Elevation	471.68	ft/MSL		Field	#
Oxidation-Reduction Potential	367	mV		Field	#
pH, Field (SM4500B)	4.96	pH_Units		Field	#
Sample Depth	100.00	Feet		Field	#
Specific Conductance, Field	268	umhos/cm	1	Field	#
Temperature	14.07	Deg. C		Field	#
Total Well Depth	140.00	Feet		Field	#
Volume in Water Column	128.58	Gallons		Field	#
Water Level After Purge	69.95	Feet		Field	#
Well Volumes Purged	1.34	Vol		Field	#
METALS					
Calcium, Total	17.2	mg/L	0.11	SW846 6010C	#
Magnesium, Total	7.8	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.010	mg/L	0.0056	SW846 6010C	#
Potassium, Total	2.0	mg/L	0.56	SW846 6010C	#
Sodium, Total	19.0	mg/L	0.56	SW846 6010C	#
VOLATILE ORGANICS					
1,1-Dichloroethane	1.3	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	17	mg/L	5	SM2320B-2011	#
Alkalinity, Total	17	mg/L	5	SM2320B-2011	#
Chloride	44.7	mg/L	2.0	EPA 300.0	#
Nitrate-N	5.2	mg/L	1.0	EPA 300.0	#
pH	7.31	pH_Units		S4500HB-11	#
Specific Conductance	264	umhos/cm	5	SW846 9050A	#
Sulfate	17.3	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	205	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.66	mg/L	0.50	SW846 9060A	#
Turbidity	2.0	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	CWMP002W	Collected	10/22/2025 14:17
Lab Sample ID	3440388003	Lab Receipt	10/22/2025 15:15

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	41.75	Feet		Field	#
Dissolved Oxygen	0.80	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	525.81	Feet		Field	#
Flow Rate	1.59	gal/min		Field	#
Ground Water Elevation	484.06	ft/MSL		Field	#
Oxidation-Reduction Potential	142	mV		Field	#
pH, Field (SM4500B)	5.70	pH_Units		Field	#
Sample Depth	85.00	Feet		Field	#
Specific Conductance, Field	520	umhos/cm	1	Field	#
Temperature	13.90	Deg. C		Field	#
Total Well Depth	100.00	Feet		Field	#
Volume in Water Column	85.63	Gallons		Field	#
Water Level After Purge	44.17	Feet		Field	#
Well Volumes Purged	1.10	Vol		Field	#
METALS					
Calcium, Total	43.8	mg/L	0.11	SW846 6010C	#
Iron, Total	0.093	mg/L	0.067	SW846 6010C	#
Magnesium, Total	16.5	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.80	mg/L	0.0056	SW846 6010C	#
Potassium, Total	3.1	mg/L	0.56	SW846 6010C	#
Sodium, Total	28.0	mg/L	0.56	SW846 6010C	#
VOLATILE ORGANICS					
1,1-Dichloroethane	5.3	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	75	mg/L	5	SM2320B-2011	#
Alkalinity, Total	75	mg/L	5	SM2320B-2011	#
Chloride	91.0	mg/L	2.0	EPA 300.0	#
Nitrate-N	5.4	mg/L	1.0	EPA 300.0	#
pH	7.83	pH_Units		S4500HB-11	#
Specific Conductance	528	umhos/cm	5	SW846 9050A	#
Sulfate	20.2	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	398	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	2.9	mg/L	0.50	SW846 9060A	#
Turbidity	1.1	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	CWMP012W	Collected	10/22/2025 09:17
Lab Sample ID	3440388001	Lab Receipt	10/22/2025 15:15

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	8.26		mg/L	0.01	Field	1	10/22/2025 09:17	EMP	D
Oxidation-Reduction Potential	134		mV		Field	1	10/22/2025 09:17	EMP	D
pH, Field (SM4500B)	8.29		pH_Units		Field	1	10/22/2025 09:17	EMP	D
Specific Conductance, Field	340		umhos/cm	1	Field	1	10/22/2025 09:17	EMP	D
Temperature	15.60		Deg. C		Field	1	10/22/2025 09:17	EMP	D
Turbidity, Field	1		NTU	1	Field	1	10/22/2025 09:17	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	36.5		mg/L	0.11	SW846 6010C	1	10/30/2025 14:35	MSY	K1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	10/30/2025 14:35	MSY	K1
Magnesium, Total	1.6		mg/L	0.11	SW846 6010C	1	10/30/2025 14:35	MSY	K1
Manganese, Total	0.029		mg/L	0.0056	SW846 6010C	1	10/30/2025 14:35	MSY	K1
Potassium, Total	43.5		mg/L	0.56	SW846 6010C	1	10/30/2025 14:35	MSY	K1
Sodium, Total	12.0		mg/L	0.56	SW846 6010C	1	10/30/2025 14:35	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	10/28/2025 16:32	TMP	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:32	TMP	H

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	10/28/2025 16:32	
4-Bromofluorobenzene	460-00-4	99.8%	79 – 114	10/28/2025 16:32	
Dibromofluoromethane	1868-53-7	94.5%	78 – 116	10/28/2025 16:32	
Toluene-d8	2037-26-5	94.1%	76 – 127	10/28/2025 16:32	

WET CHEMISTRY

Results

Client Sample ID	CWMP012W	Collected	10/22/2025 09:17
Lab Sample ID	3440388001	Lab Receipt	10/22/2025 15:15

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	143		mg/L	5	SM2320B-2011	1	10/25/2025 12:09	JXK	B
Alkalinity, Total	169	1	mg/L	5	SM2320B-2011	1	10/25/2025 12:09	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	10/27/2025 14:56	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	10/24/2025 12:03	KMS	A
Chloride	ND	ND	mg/L	2.0	EPA 300.0	2	10/23/2025 11:53	J1W	B
Fluoride	0.26		mg/L	0.20	EPA 300.0	2	10/23/2025 11:53	J1W	B
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	10/23/2025 11:53	J1W	B
pH	8.42	2	pH_Units		S4500HB-11	1	10/25/2025 12:09	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 18:15	AKH	G
Specific Conductance	342		umhos/cm	5	SW846 9050A	1	10/27/2025 12:00	MJO	B
Sulfate	2.9		mg/L	2.0	EPA 300.0	2	10/23/2025 11:53	J1W	B
Total Dissolved Solids	258		mg/L	25	SM2540C-15	1	10/28/2025 16:45	RAG	B
Total Organic Carbon (TOC)	5.1		mg/L	0.50	SW846 9060A	1	10/28/2025 03:23	PAG	E
Turbidity	1.7		NTU	0.30	SM2130B-2011	1	10/23/2025 15:20	NPF	B

Results

Client Sample ID	CWMP003W	Collected	10/22/2025 12:27
Lab Sample ID	3440388002	Lab Receipt	10/22/2025 15:15

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	52.53		Feet		Field	1	10/22/2025 12:27	EMP	D
Dissolved Oxygen	4.99		mg/L	0.01	Field	1	10/22/2025 12:27	EMP	D
Elev Top MW Casing above MSL	524.21		Feet		Field	1	10/22/2025 12:27	EMP	D
Flow Rate	1.81		gal/min		Field	1	10/22/2025 12:27	EMP	D
Ground Water Elevation	471.68		ft/MSL		Field	1	10/22/2025 12:27	EMP	D
Oxidation-Reduction Potential	367		mV		Field	1	10/22/2025 12:27	EMP	D
pH, Field (SM4500B)	4.96		pH_Units		Field	1	10/22/2025 12:27	EMP	D
Sample Depth	100.00		Feet		Field	1	10/22/2025 12:27	EMP	D
Specific Conductance, Field	268		umhos/cm	1	Field	1	10/22/2025 12:27	EMP	D
Temperature	14.07		Deg. C		Field	1	10/22/2025 12:27	EMP	D
Total Well Depth	140.00		Feet		Field	1	10/22/2025 12:27	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	10/22/2025 12:27	EMP	D
Volume in Water Column	128.58		Gallons		Field	1	10/22/2025 12:27	EMP	D
Water Level After Purge	69.95		Feet		Field	1	10/22/2025 12:27	EMP	D
Well Volumes Purged	1.34		Vol		Field	1	10/22/2025 12:27	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	10/30/2025 14:46	MSY	K1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	10/30/2025 14:46	MSY	K1
Magnesium, Total	7.8		mg/L	0.11	SW846 6010C	1	10/30/2025 14:46	MSY	K1
Manganese, Total	0.010		mg/L	0.0056	SW846 6010C	1	10/30/2025 14:46	MSY	K1
Potassium, Total	2.0		mg/L	0.56	SW846 6010C	1	10/30/2025 14:46	MSY	K1
Sodium, Total	19.0		mg/L	0.56	SW846 6010C	1	10/30/2025 14:46	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	10/28/2025 16:55	TMP	H
1,1-Dichloroethane	1.3		ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 16:55	TMP	H

Results

Client Sample ID	CWMP003W	Collected	10/22/2025 12:27
Lab Sample ID	3440388002	Lab Receipt	10/22/2025 15:15

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	100%	62 – 133	10/28/2025 16:55	
4-Bromofluorobenzene	460-00-4	98.9%	79 – 114	10/28/2025 16:55	
Dibromofluoromethane	1868-53-7	93.4%	78 – 116	10/28/2025 16:55	
Toluene-d8	2037-26-5	94.3%	76 – 127	10/28/2025 16:55	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	17		mg/L	5	SM2320B-2011	1	10/25/2025 13:11	JXK	B
Alkalinity, Total	17	1	mg/L	5	SM2320B-2011	1	10/25/2025 13:11	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	10/27/2025 13:51	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	10/24/2025 12:03	KMS	A
Chloride	44.7		mg/L	2.0	EPA 300.0	2	10/23/2025 12:05	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	10/23/2025 12:05	J1W	B
Nitrate-N	5.2		mg/L	1.0	EPA 300.0	2	10/23/2025 12:05	J1W	B
pH	7.31	2	pH_Units		S4500HB-11	1	10/25/2025 13:11	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 16:52	AKH	G
Specific Conductance	264		umhos/cm	5	SW846 9050A	1	10/27/2025 12:00	MJO	B
Sulfate	17.3		mg/L	2.0	EPA 300.0	2	10/23/2025 12:05	J1W	B
Total Dissolved Solids	205		mg/L	25	SM2540C-15	1	10/28/2025 16:45	RAG	B
Total Organic Carbon (TOC)	0.66		mg/L	0.50	SW846 9060A	1	10/28/2025 03:23	PAG	E
Turbidity	2.0		NTU	0.30	SM2130B-2011	1	10/23/2025 15:20	NPF	B

Results

Client Sample ID	CWMP002W	Collected	10/22/2025 14:17
Lab Sample ID	3440388003	Lab Receipt	10/22/2025 15:15

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	41.75		Feet		Field	1	10/22/2025 14:17	EMP	D
Dissolved Oxygen	0.80		mg/L	0.01	Field	1	10/22/2025 14:17	EMP	D
Elev Top MW Casing above MSL	525.81		Feet		Field	1	10/22/2025 14:17	EMP	D
Flow Rate	1.59		gal/min		Field	1	10/22/2025 14:17	EMP	D
Ground Water Elevation	484.06		ft/MSL		Field	1	10/22/2025 14:17	EMP	D
Oxidation-Reduction Potential	142		mV		Field	1	10/22/2025 14:17	EMP	D
pH, Field (SM4500B)	5.70		pH_Units		Field	1	10/22/2025 14:17	EMP	D
Sample Depth	85.00		Feet		Field	1	10/22/2025 14:17	EMP	D
Specific Conductance, Field	520		umhos/cm	1	Field	1	10/22/2025 14:17	EMP	D
Temperature	13.90		Deg. C		Field	1	10/22/2025 14:17	EMP	D
Total Well Depth	100.00		Feet		Field	1	10/22/2025 14:17	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	10/22/2025 14:17	EMP	D
Volume in Water Column	85.63		Gallons		Field	1	10/22/2025 14:17	EMP	D
Water Level After Purge	44.17		Feet		Field	1	10/22/2025 14:17	EMP	D
Well Volumes Purged	1.10		Vol		Field	1	10/22/2025 14:17	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	43.8		mg/L	0.11	SW846 6010C	1	10/30/2025 14:37	MSY	K1
Iron, Total	0.093		mg/L	0.067	SW846 6010C	1	10/30/2025 14:37	MSY	K1
Magnesium, Total	16.5		mg/L	0.11	SW846 6010C	1	10/30/2025 14:37	MSY	K1
Manganese, Total	0.80		mg/L	0.0056	SW846 6010C	1	10/30/2025 14:37	MSY	K1
Potassium, Total	3.1		mg/L	0.56	SW846 6010C	1	10/30/2025 14:37	MSY	K1
Sodium, Total	28.0		mg/L	0.56	SW846 6010C	1	10/30/2025 14:37	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	10/28/2025 17:17	TMP	H
1,1-Dichloroethane	5.3		ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/28/2025 17:17	TMP	H

Results

Client Sample ID	CWMP002W	Collected	10/22/2025 14:17
Lab Sample ID	3440388003	Lab Receipt	10/22/2025 15:15

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	100%	62 – 133	10/28/2025 17:17	
4-Bromofluorobenzene	460-00-4	99.3%	79 – 114	10/28/2025 17:17	
Dibromofluoromethane	1868-53-7	95.7%	78 – 116	10/28/2025 17:17	
Toluene-d8	2037-26-5	95.2%	76 – 127	10/28/2025 17:17	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	75		mg/L	5	SM2320B-2011	1	10/25/2025 13:23	JXK	B
Alkalinity, Total	75	1	mg/L	5	SM2320B-2011	1	10/25/2025 13:23	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	10/27/2025 13:55	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	10/24/2025 12:03	KMS	A
Chloride	91.0		mg/L	2.0	EPA 300.0	2	10/23/2025 12:18	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	10/23/2025 12:18	J1W	B
Nitrate-N	5.4		mg/L	1.0	EPA 300.0	2	10/23/2025 12:18	J1W	B
pH	7.83	2	pH_Units		S4500HB-11	1	10/25/2025 13:23	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/29/2025 17:35	AKH	G
Specific Conductance	528		umhos/cm	5	SW846 9050A	1	10/27/2025 12:00	MJO	B
Sulfate	20.2		mg/L	2.0	EPA 300.0	2	10/23/2025 12:18	J1W	B
Total Dissolved Solids	398		mg/L	25	SM2540C-15	1	10/28/2025 16:45	RAG	B
Total Organic Carbon (TOC)	2.9		mg/L	0.50	SW846 9060A	1	10/28/2025 03:23	PAG	E
Turbidity	1.1		NTU	0.30	SM2130B-2011	1	10/23/2025 15:20	NPF	B

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3440388001	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	
3440388002	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	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3440388003	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	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3440388001	CWMP012W	N/A	N/A	N/A		Field	1482246
		SW846 3015A	1479950	10/24/2025 10:22	AAJ	SW846 6010C	1481474
		N/A	N/A	N/A		SW846 8260B	1481486
		N/A	N/A	N/A		EPA 300.0	1479609
		N/A	N/A	N/A		EPA 410.4	1479900
		N/A	N/A	N/A		S4500HB-11	1480032
		N/A	N/A	N/A		SM 4500-NH3G	1481170
		N/A	N/A	N/A		SM2130B-2011	1479747
		N/A	N/A	N/A		SM2320B-2011	1480032
		N/A	N/A	N/A		SM2540C-15	1481487
		N/A	N/A	N/A		SW846 9050A	1481184
		N/A	N/A	N/A		SW846 9060A	1481302
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278
3440388002	CWMP003W	N/A	N/A	N/A		Field	1482261
		SW846 3015A	1479950	10/24/2025 10:22	AAJ	SW846 6010C	1481474
		N/A	N/A	N/A		SW846 8260B	1481486
		N/A	N/A	N/A		EPA 300.0	1479609
		N/A	N/A	N/A		EPA 410.4	1479900
		N/A	N/A	N/A		S4500HB-11	1480032
		N/A	N/A	N/A		SM 4500-NH3G	1481171
		N/A	N/A	N/A		SM2130B-2011	1479747
		N/A	N/A	N/A		SM2320B-2011	1480032
		N/A	N/A	N/A		SM2540C-15	1481487
		N/A	N/A	N/A		SW846 9050A	1481184
		N/A	N/A	N/A		SW846 9060A	1481302
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278
3440388003	CWMP002W	N/A	N/A	N/A		Field	1482261
		SW846 3015A	1479950	10/24/2025 10:22	AAJ	SW846 6010C	1481474
		N/A	N/A	N/A		SW846 8260B	1481486
		N/A	N/A	N/A		EPA 300.0	1479609
		N/A	N/A	N/A		EPA 410.4	1479900
		N/A	N/A	N/A		S4500HB-11	1480032
		N/A	N/A	N/A		SM 4500-NH3G	1481171
		N/A	N/A	N/A		SM2130B-2011	1479747
		N/A	N/A	N/A		SM2320B-2011	1480032
		N/A	N/A	N/A		SM2540C-15	1481487
		N/A	N/A	N/A		SW846 9050A	1481184
		N/A	N/A	N/A		SW846 9060A	1481302
		SW846 9066	1481276	10/27/2025 13:03	ZEB	SW846 9066	1481278

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

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

COC #: 3440388 Logged By: GRD PM: SJB

ALS Quote

of

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike, Lancaster PA 17604

Contact: Dan Brown

Phone#: 717-553-5864

Project Name/#: 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~~ 500	~~500ml~~ 250	Hch 10-22-25		250ml	125ml	
Preservative	HCL	H2SO4	~~UNP~~ HCl	UNP	UNP			H2SO4	HNO3	

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	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	
1	CWMP012W	10-22-25	0917		G	GW	2	1	3	1	1	x	x	1	2	
2	CWMP003W	10-22-25	1227				↓	↓	↓	↓	↓			↓	↓	
3	CWMP002W	10-22-25	1417				↓	↓	↓	↓	↓			↓	↓	
4										Hch	10-22-25					
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: 352 WO Temp (°C) 0

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
10-22-25	1515	1	(ALS) EP	2	Takayat ALS
		3		4	
		5		6	
		7		8	
		9		10	

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

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

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

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

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

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

Rev 07.06.2023

right solutions. right partner.

Middletown Sample Condition Form

Client Lanc. Cty Solid Waste Workorder 3440388

Temp °C 0 Therm ID 352 Ice? (Y) N N/A Initials & Date tkh 10-22-25

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		✓		UC
•Composite or grab	✓			
•Matrix				
Proper containers, preservation, and volume per method				
Received within hold time				
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)			✓	
Field blanks present (Hg 1631, PFAS)				
NJ ≤ 4 Days				
CR6 Samples Filtered				
OP Samples Filtered				
WV Containers 0-6°C				
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) —

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

Review Comments:

_____

_____

_____

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 4th QTR 2025 GWMP-FORM 19Q
Workorder 3440611
Report ID 472529 on 11/3/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Oct 23, 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
3440611001	CWMP004W	Ground Water	10/23/2025 08:18	10/23/2025 13:52	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	CWMP004W	Collected	10/23/2025 08:18
Lab Sample ID	3440611001	Lab Receipt	10/23/2025 13:52

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	51.21	Feet		Field	#
Dissolved Oxygen	7.71	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	529.53	Feet		Field	#
Flow Rate	2.00	gal/min		Field	#
Ground Water Elevation	478.32	ft/MSL		Field	#
Oxidation-Reduction Potential	249	mV		Field	#
pH, Field (SM4500B)	5.12	pH_Units		Field	#
Sample Depth	130.00	Feet		Field	#
Specific Conductance, Field	202	umhos/cm	1	Field	#
Temperature	14.37	Deg. C		Field	#
Total Well Depth	140.00	Feet		Field	#
Volume in Water Column	130.52	Gallons		Field	#
Water Level After Purge	53.45	Feet		Field	#
Well Volumes Purged	1.07	Vol		Field	#
METALS					
Calcium, Total	15.7	mg/L	0.11	SW846 6010C	#
Iron, Total	0.27	mg/L	0.067	SW846 6010C	#
Magnesium, Total	4.9	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.0057	mg/L	0.0056	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	31.9	mg/L	2.0	EPA 300.0	#
Nitrate-N	4.7	mg/L	1.0	EPA 300.0	#
pH	7.65	pH_Units		S4500HB-11	#
Specific Conductance	207	umhos/cm	5	SW846 9050A	#
Sulfate	4.1	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	163	mg/L	25	SM2540C-15	#
Turbidity	2.9	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	CWMP004W	Collected	10/23/2025 08:18
Lab Sample ID	3440611001	Lab Receipt	10/23/2025 13:52

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	51.21		Feet		Field	1	10/23/2025 08:18	EMP	D
Dissolved Oxygen	7.71		mg/L	0.01	Field	1	10/23/2025 08:18	EMP	D
Elev Top MW Casing above MSL	529.53		Feet		Field	1	10/23/2025 08:18	EMP	D
Flow Rate	2.00		gal/min		Field	1	10/23/2025 08:18	EMP	D
Ground Water Elevation	478.32		ft/MSL		Field	1	10/23/2025 08:18	EMP	D
Oxidation-Reduction Potential	249		mV		Field	1	10/23/2025 08:18	EMP	D
pH, Field (SM4500B)	5.12		pH_Units		Field	1	10/23/2025 08:18	EMP	D
Sample Depth	130.00		Feet		Field	1	10/23/2025 08:18	EMP	D
Specific Conductance, Field	202		umhos/cm	1	Field	1	10/23/2025 08:18	EMP	D
Temperature	14.37		Deg. C		Field	1	10/23/2025 08:18	EMP	D
Total Well Depth	140.00		Feet		Field	1	10/23/2025 08:18	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	10/23/2025 08:18	EMP	D
Volume in Water Column	130.52		Gallons		Field	1	10/23/2025 08:18	EMP	D
Water Level After Purge	53.45		Feet		Field	1	10/23/2025 08:18	EMP	D
Well Volumes Purged	1.07		Vol		Field	1	10/23/2025 08:18	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	15.7		mg/L	0.11	SW846 6010C	1	10/30/2025 13:23	MSY	K1
Iron, Total	0.27		mg/L	0.067	SW846 6010C	1	10/30/2025 13:23	MSY	K1
Magnesium, Total	4.9		mg/L	0.11	SW846 6010C	1	10/30/2025 13:23	MSY	K1
Manganese, Total	0.0057		mg/L	0.0056	SW846 6010C	1	10/30/2025 13:23	MSY	K1
Potassium, Total	1.2		mg/L	0.56	SW846 6010C	1	10/30/2025 13:23	MSY	K1
Sodium, Total	15.7		mg/L	0.56	SW846 6010C	1	10/30/2025 13:23	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	10/31/2025 19:41	TMP	J
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	10/31/2025 19:41	TMP	J

Results

Client Sample ID	CWMP004W	Collected	10/23/2025 08:18
Lab Sample ID	3440611001	Lab Receipt	10/23/2025 13:52

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	10/31/2025 19:41	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	10/31/2025 19:41	
Dibromofluoromethane	1868-53-7	98.8%	78 – 116	10/31/2025 19:41	
Toluene-d8	2037-26-5	99.7%	76 – 127	10/31/2025 19:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	22		mg/L	5	SM2320B-2011	1	10/27/2025 09:18	JXK	B
Alkalinity, Total	22	1	mg/L	5	SM2320B-2011	1	10/27/2025 09:18	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	10/27/2025 13:29	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	10/28/2025 11:30	KMS	A
Chloride	31.9		mg/L	2.0	EPA 300.0	2	10/24/2025 13:42	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	10/24/2025 13:42	J1W	B
Nitrate-N	4.7		mg/L	1.0	EPA 300.0	2	10/24/2025 13:42	J1W	B
pH	7.65	2	pH_Units		S4500HB-11	1	10/27/2025 09:18	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	10/31/2025 11:42	ZEB	G
Specific Conductance	207		umhos/cm	5	SW846 9050A	1	10/27/2025 12:00	MJO	B
Sulfate	4.1		mg/L	2.0	EPA 300.0	2	10/24/2025 13:42	J1W	B
Total Dissolved Solids	163		mg/L	25	SM2540C-15	1	10/28/2025 16:45	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	10/29/2025 04:07	PAG	E
Turbidity	2.9		NTU	0.30	SM2130B-2011	1	10/24/2025 08:44	NPF	B

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3440611001	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	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3440611001	CWMP004W	N/A	N/A	N/A		Field	1482261
		SW846 3015A	1481197	10/27/2025 09:41	RMH	SW846 6010C	1481473
		N/A	N/A	N/A		SW846 8260B	1482276
		N/A	N/A	N/A		EPA 300.0	1479887
		N/A	N/A	N/A		EPA 410.4	1481428
		N/A	N/A	N/A		S4500HB-11	1481166
		N/A	N/A	N/A		SM 4500-NH3G	1481171
		N/A	N/A	N/A		SM2130B-2011	1479891
		N/A	N/A	N/A		SM2320B-2011	1481166
		N/A	N/A	N/A		SM2540C-15	1481487
		N/A	N/A	N/A		SW846 9050A	1481184
		N/A	N/A	N/A		SW846 9060A	1481525
		SW846 9066	1481286	10/27/2025 13:49	ZEB	SW846 9066	1481288

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.

3440611
Logged By: DXB
PM: SJB

C(A

of

(ving Lab)

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	CWMP004W	10/23/25	08:18		G	GW	2	1	3	1	1	x	x	1	2	
2																
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: SDC WO Temp (°C) 3

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

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

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

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

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

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

Sample/COC Remarks

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

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

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
10.23.25	1358	1	ALS EP	2	Tahayeh ALS
		3		4	
		5		6	
		7		8	
		9		10	

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

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

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

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

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

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

Middletown Sample Condition Form

Client Lanc. Cty Solid Waste Workorder 3440611

Temp °C 3 Therm ID 352 Ice? (Y) N N/A Initials & Date tkh 10-23-25

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:

_____

_____

_____

Rev. 1/2/2025

11/3/2025 8:51 PM