COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised 10/15/2021
DEP USE ONLY
Date Received

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

General Reference: Act 101 Section 1103			
	SECTION A. SITE IDENTIFIER		
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County: Lancaster C	county		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name:LCSWMA			
Address: 3044 RIVE	R ROAD		
Phone No.:			
Sampling Point: Latitude: 39 o	57 ' 30.58 " Longitude: 76 ° 26 ' 11.25 "		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL		
Total Well Depth:			
Sampling Depth:	ft. Sampling Method: Pumped Bailed		
Well Purged: Yes	X No Well Volumes Purged:		
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No		
Sample Date:(mm/dd/yy) 08/2	0/2021 Sample Collection Time: 12:13 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	09/07/2021		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
Comments:			

Facility I.D. Number
101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	11	SM20-2321
CALCIUM, TOTAL	11.2	EPA 200.7
CALCIUM, DISSOLVED	13.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	22.1	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	8.8	EPA 200.7
MAGNESIUM, DISSOLVED	10.3	EPA 200.7
MANGANESE, TOTAL (ug/l)	18	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	21	EPA 200.7
NITRATE-NITROGEN	18.7	EPA 300

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.19	FIELD
pH-LAB (SU)	6.23	SM4500B
POTASSIUM, TOTAL	1.5	EPA 200.7
POTASSIUM, DISSOLVED	2.1	EPA 200.7
SODIUM, TOTAL	7.2	EPA 200.7
SODIUM, DISSOLVED	8.8	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	271	FIELD
SPEC. COND., LAB (umhos/cm)	266	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	11	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	192	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.1 ND	SM 2130B

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	1 ND	EPA 524.2
1,2-DIBROMOETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHENE	1 ND	EPA 524.2
1,2-DICHLOROETHANE	1 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
ETHYLBENZENE	1 ND	EPA 524.2
METHYLENE CHLORIDE	1 ND	EPA 524.2
TETRACHLOROETHENE	1 ND	EPA 524.2
TOLUENE	1 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	1 ND	EPA 524.2
TRICHLOROETHENE	1 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	1 ND	EPA 524.2
VINYL CHLORIDE	1 ND	EPA 524.2
XYLENES (TOTAL)	3 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised 10/15/2021
DEP USE ONLY
Date Received

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

General Reference: Act 101 Section 1103			
	SECTION A. SITE IDENTIFIER		
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County: Lancaster C	county		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name:MILLER			
Address: 3052 RIVE	R ROAD		
Phone No.:			
Sampling Point: Latitude: 39 o	57 ' 29.85 " Longitude: 76 ° 26 ' 11.45 "		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL		
Total Well Depth:			
Sampling Depth:	ft. Sampling Method: Pumped Bailed		
Well Purged: Yes	X No Well Volumes Purged:		
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No		
Sample Date:(mm/dd/yy) 08/2	0/2021 Sample Collection Time: 12:21 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	09/07/2021		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
Comments:			

Facility I.D. Number
101389

Monitoring Point I.D. No.

PS MILLER

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.172	SM4500D
BICARBONATE ALKALINITY	7	SM20-2321
CALCIUM, TOTAL	13.9	EPA 200.7
CALCIUM, DISSOLVED	14.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	22	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	9.3	EPA 200.7
MAGNESIUM, DISSOLVED	9.5	EPA 200.7
MANGANESE, TOTAL (ug/l)	43	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	44	EPA 200.7
NITRATE-NITROGEN	17.4	EPA 300

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS MILLER

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.11	FIELD
pH-LAB (SU)	6.06	SM4500B
POTASSIUM, TOTAL	2.1	EPA 200.7
POTASSIUM, DISSOLVED	2.4	EPA 200.7
SODIUM, TOTAL	7.1	EPA 200.7
SODIUM, DISSOLVED	7.4	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	263	FIELD
SPEC. COND., LAB (umhos/cm)	257	EPA 120.1
SULFATE	2.5	EPA 300
ALKALINITY	7	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	190	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.73	SM 2130B

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS MILLER

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	1 ND	EPA 524.2
1,2-DIBROMOETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHENE	1 ND	EPA 524.2
1,2-DICHLOROETHANE	1 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
ETHYLBENZENE	1 ND	EPA 524.2
METHYLENE CHLORIDE	1 ND	EPA 524.2
TETRACHLOROETHENE	1 ND	EPA 524.2
TOLUENE	1 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	1 ND	EPA 524.2
TRICHLOROETHENE	1 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	1 ND	EPA 524.2
VINYL CHLORIDE	1 ND	EPA 524.2
XYLENES (TOTAL)	3 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised 10/15/2021
DEP USE ONLY
Date Received

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

General Reference: Act 101 Section 1103			
	SECTION A. SITE IDENTIFIER		
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County: Lancaster C	county		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name:LCSWMA			
Address: 3056 RIVE	R ROAD		
Phone No.:			
Sampling Point: Latitude: 39 o	57 ' 28.44 " Longitude: 76 ° 26 ' 10.43 "		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL		
Total Well Depth:			
Sampling Depth:	ft. Sampling Method: Pumped Bailed		
Well Purged: Yes	X No Well Volumes Purged:		
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No		
Sample Date:(mm/dd/yy) 08/2	0/2021 Sample Collection Time: 12:27 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	09/07/2021		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
Comments:			

Facility I.D. Number
101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.11	SM4500D
BICARBONATE ALKALINITY	11	SM20-2321
CALCIUM, TOTAL	10.6	EPA 200.7
CALCIUM, DISSOLVED	10.8	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	28.7	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	12.9	EPA 200.7
MAGNESIUM, DISSOLVED	12.9	EPA 200.7
MANGANESE, TOTAL (ug/l)	89	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	94	EPA 200.7
NITRATE-NITROGEN	16.9	EPA 300

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.1	FIELD
pH-LAB (SU)	6.04	SM4500B
POTASSIUM, TOTAL	2.5	EPA 200.7
POTASSIUM, DISSOLVED	2.8	EPA 200.7
SODIUM, TOTAL	8.7	EPA 200.7
SODIUM, DISSOLVED	9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	271	FIELD
SPEC. COND., LAB (umhos/cm)	273	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	110	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	180	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.23	SM 2130B

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	1 ND	EPA 524.2
1,2-DIBROMOETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHENE	1 ND	EPA 524.2
1,2-DICHLOROETHANE	1 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
ETHYLBENZENE	1 ND	EPA 524.2
METHYLENE CHLORIDE	1 ND	EPA 524.2
TETRACHLOROETHENE	1 ND	EPA 524.2
TOLUENE	1 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	1 ND	EPA 524.2
TRICHLOROETHENE	1 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	1 ND	EPA 524.2
VINYL CHLORIDE	1 ND	EPA 524.2
XYLENES (TOTAL)	3 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised 10/15/2021	
DEP USE ONLY	
Date Received	

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

General Reference: Act 101 Section	1103
	SECTION A. SITE IDENTIFIER
Applicant/permittee: La	ancaster County Solid Waste Manage
Site Name: F	rey Farm Landfill
Facility ID (as issued by DEP): 1	01389
SECT	TION B. PRIVATE WATER SUPPLY INFORMATION
INDICATE THE LATITUDE AND LONGIT	UDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S")
Facility Name: Frey Farm L	andfill
County: Lancaster Co	
Township or Municipality: MANOR TO	WNSHIP
Landowner Name: LCSWMA	
Address: 3060 RIVER	ROAD
Phone No.:	760 26 ' 10.01 "
Sampling Point: Latitude: 39 °	57 27.63 Longitude: 76 0 26 10.01 "
Depth to Water Level:	ft. Measured from: X Land Surface TOC
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL
Total Well Depth:	ft.
Sampling Depth:	ft. Sampling Method: Pumped Bailed
Well Purged: Yes	X No Well Volumes Purged:
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No
Sample Date:(mm/dd/yy) 08/20	0/2021 Sample Collection Time: 12:32 PM
Laboratory(ies) Performing Analysis	ALS Environmental
(include address and phone number)	301 Fulling Mill Road
	Middletown, PA 17057 (717) 944-5541
Lab Accreditation Number(s)	22-293
Lab Analysis Date	09/07/2021
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.
Comments:	

Facility I.D. Number
101389

Monitoring Point I.D. No.

LCSWMA

Sample Date

PS

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.119	SM4500D
BICARBONATE ALKALINITY	5 ND	SM20-2321
CALCIUM, TOTAL	11.2	EPA 200.7
CALCIUM, DISSOLVED	11.1	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	21.6	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	68	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	11.5	EPA 200.7
MAGNESIUM, DISSOLVED	11.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	120	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	120	EPA 200.7
NITRATE-NITROGEN	16.2	EPA 300

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.38	EPA 300
pH-FIELD (SU)	5.72	FIELD
pH-LAB (SU)	5.68	SM4500B
POTASSIUM, TOTAL	2.7	EPA 200.7
POTASSIUM, DISSOLVED	2.9	EPA 200.7
SODIUM, TOTAL	8.3	EPA 200.7
SODIUM, DISSOLVED	8.5	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	251	FIELD
SPEC. COND., LAB (umhos/cm)	258	EPA 120.1
SULFATE	9.3	EPA 300
ALKALINITY	5 ND	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	174	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.14	SM 2130B

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	1 ND	EPA 524.2
1,2-DIBROMOETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHENE	1 ND	EPA 524.2
1,2-DICHLOROETHANE	1 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
ETHYLBENZENE	1 ND	EPA 524.2
METHYLENE CHLORIDE	1 ND	EPA 524.2
TETRACHLOROETHENE	1 ND	EPA 524.2
TOLUENE	1 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	1 ND	EPA 524.2
TRICHLOROETHENE	1 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	1 ND	EPA 524.2
VINYL CHLORIDE	1 ND	EPA 524.2
XYLENES (TOTAL)	3 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

	Date Prepared/Revised 10/15/2021
DEP USE ONLY	
	Date Received

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

General Reference: Act 101 Section	1103		
SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County: Lancaster C	County		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name: SENSENIC	Н		
Address: 3076 RIVER	R ROAD		
Phone No.:			
Sampling Point: Latitude: 39 o	57 ' 28.2 " Longitude: 76 ° 26 ' 11.1 "		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL		
Total Well Depth:	ft.		
Sampling Depth:	ft. Sampling Method: Pumped Bailed		
Well Purged: Yes	X No Well Volumes Purged:		
Sample Field Filtered (must be 0.45 micro			
Sample Date:(mm/dd/yy) 08/2	0/2021 Sample Collection Time: 12:41 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	09/07/2021		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
Comments:			

Facility I.D. Number

Monitoring Point I.D. No.

PS SENSENICH

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.11	SM4500D
BICARBONATE ALKALINITY	10	SM20-2321
CALCIUM, TOTAL	13	EPA 200.7
CALCIUM, DISSOLVED	13.2	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	53.9	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	8.6	EPA 200.7
MAGNESIUM, DISSOLVED	8.4	EPA 200.7
MANGANESE, TOTAL (ug/l)	180	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	180	EPA 200.7
NITRATE-NITROGEN	10.2	EPA 300

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS SENSENICH

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.28	FIELD
pH-LAB (SU)	6.25	SM4500B
POTASSIUM, TOTAL	3.7	EPA 200.7
POTASSIUM, DISSOLVED	4	EPA 200.7
SODIUM, TOTAL	24.2	EPA 200.7
SODIUM, DISSOLVED	25.3	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	325	FIELD
SPEC. COND., LAB (umhos/cm)	331	EPA 120.1
SULFATE	12.7	EPA 300
ALKALINITY	10	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	208	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.64	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.11	SM 2130B

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS SENSENICH

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	1 ND	EPA 524.2
1,2-DIBROMOETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHENE	1 ND	EPA 524.2
1,2-DICHLOROETHANE	1 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
ETHYLBENZENE	1 ND	EPA 524.2
METHYLENE CHLORIDE	1 ND	EPA 524.2
TETRACHLOROETHENE	1 ND	EPA 524.2
TOLUENE	1 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	1 ND	EPA 524.2
TRICHLOROETHENE	1 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	1 ND	EPA 524.2
VINYL CHLORIDE	1 ND	EPA 524.2
XYLENES (TOTAL)	3 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised 10/15/2021
DEP USE ONLY
Date Received

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

General Reference: Act 101 Section	1103		
SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County: Lancaster C	county		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name:LCSWMA			
Address: 3079 RIVE	R ROAD		
Phone No.:			
Sampling Point: Latitude: 39 o	57 ' 21.99 " Longitude: 76 ° 26 ' 10.58 "		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL		
Total Well Depth:			
Sampling Depth:	ft. Sampling Method: Pumped Bailed		
Well Purged: Yes	X No Well Volumes Purged:		
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No		
Sample Date:(mm/dd/yy) 08/2	0/2021 Sample Collection Time: 2:28 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	09/07/2021		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
Comments:			

Facility I.D. Number 101389 Monitoring Point I.D. No.

PS Sample Date

08/20/2021

LCSWMA

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.143	SM4500D
BICARBONATE ALKALINITY	33	SM20-2321
CALCIUM, TOTAL	10.1	EPA 200.7
CALCIUM, DISSOLVED	9.6	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	33.6	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	6	EPA 200.7
MAGNESIUM, DISSOLVED	5.6	EPA 200.7
MANGANESE, TOTAL (ug/l)	55	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	52	EPA 200.7
NITRATE-NITROGEN	0.2 ND	EPA 300

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.65	FIELD
pH-LAB (SU)	6.6	SM4500B
POTASSIUM, TOTAL	2.3	EPA 200.7
POTASSIUM, DISSOLVED	2.5	EPA 200.7
SODIUM, TOTAL	14.3	EPA 200.7
SODIUM, DISSOLVED	14.2	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	222	FIELD
SPEC. COND., LAB (umhos/cm)	215	EPA 120.1
SULFATE	9	EPA 300
ALKALINITY	33	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	124	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.12	SM 2130B

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	1 ND	EPA 524.2
1,2-DIBROMOETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHENE	1 ND	EPA 524.2
1,2-DICHLOROETHANE	1 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
ETHYLBENZENE	1 ND	EPA 524.2
METHYLENE CHLORIDE	1 ND	EPA 524.2
TETRACHLOROETHENE	1 ND	EPA 524.2
TOLUENE	1 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	1 ND	EPA 524.2
TRICHLOROETHENE	1 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	1 ND	EPA 524.2
VINYL CHLORIDE	1 ND	EPA 524.2
XYLENES (TOTAL)	3 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised 10/15/2021
DEP USE ONLY
Date Received

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

General Reference: Act 101 Section	1103	
SECTION A. SITE IDENTIFIER		
Applicant/permittee:	ancaster County Solid Waste Manage	
Site Name: F	rey Farm Landfill	
Facility ID (as issued by DEP):	01389	
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION	
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S")	
Facility Name: Frey Farm L	andfill	
County: Lancaster C	county	
Township or Municipality: MANOR TO	WNSHIP	
Landowner Name:WEBER		
Address: 3088 RIVE	R ROAD	
Phone No.:		
Sampling Point: Latitude: 39 o	57 ' 21 " Longitude: 76 ° 26 ' 7.1 "	
Depth to Water Level:	ft. Measured from: X Land Surface TOC	
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL	
Total Well Depth:		
Sampling Depth:	ft. Sampling Method: Pumped Bailed	
Well Purged: Yes	X No Well Volumes Purged:	
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No	
Sample Date:(mm/dd/yy) 08/2	0/2021 Sample Collection Time: 12:52 PM	
Laboratory(ies) Performing Analysis	ALS Environmental	
(include address and phone number)	301 Fulling Mill Road	
	Middletown, PA 17057 (717) 944-5541	
Lab Accreditation Number(s)	22-293	
Lab Analysis Date	09/07/2021	
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.	
Comments:		

Facility I.D. Number
101389

Monitoring Point I.D. No.

PS WEBER

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.117	SM4500D
BICARBONATE ALKALINITY	190	SM20-2321
CALCIUM, TOTAL	0.12	EPA 200.7
CALCIUM, DISSOLVED	0.14	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	246	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	0.056	EPA 200.7
MAGNESIUM, DISSOLVED	0.1 ND	EPA 200.7
MANGANESE, TOTAL (ug/l)	2.5 ND	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	5 ND	EPA 200.7
NITRATE-NITROGEN	6.4	EPA 300

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS WEBER

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	7.48	FIELD
pH-LAB (SU)	7.44	SM4500B
POTASSIUM, TOTAL	2.3	EPA 200.7
POTASSIUM, DISSOLVED	2.5	EPA 200.7
SODIUM, TOTAL	227	EPA 200.7
SODIUM, DISSOLVED	242	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	1185	FIELD
SPEC. COND., LAB (umhos/cm)	1200	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	190	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	644	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.14	SM 2130B

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS WEBER

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	1 ND	EPA 524.2
1,2-DIBROMOETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHENE	1 ND	EPA 524.2
1,2-DICHLOROETHANE	1 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
ETHYLBENZENE	1 ND	EPA 524.2
METHYLENE CHLORIDE	1 ND	EPA 524.2
TETRACHLOROETHENE	1 ND	EPA 524.2
TOLUENE	1 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	1 ND	EPA 524.2
TRICHLOROETHENE	1 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	1 ND	EPA 524.2
VINYL CHLORIDE	1 ND	EPA 524.2
XYLENES (TOTAL)	3 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised 10/15/2021
DEP USE ONLY
Date Received

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

General Reference: Act 101 Section 1103			
SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County: Lancaster C	county		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name:KIRCHNER			
Address: 3100 RIVER	R ROAD		
Phone No.:			
Sampling Point: Latitude: 39 o	57 ' 17.9 " Longitude: 76 ° 26 ' 6.28 "		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL		
Total Well Depth:			
Sampling Depth:	ft. Sampling Method: Pumped Bailed		
Well Purged: Yes	X No Well Volumes Purged:		
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No		
Sample Date:(mm/dd/yy) 08/2	0/2021 Sample Collection Time: 11:56 AM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	09/07/2021		
Were any holding times exceeded?: Yes X No If yes, please explain in comments field.			
Comments:			

Facility I.D. Number

Monitoring Point I.D. No.

PS KIRCHNER

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.146	SM4500D
BICARBONATE ALKALINITY	14	SM20-2321
CALCIUM, TOTAL	12.6	EPA 200.7
CALCIUM, DISSOLVED	12.2	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	40.6	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	6	EPA 200.7
MAGNESIUM, DISSOLVED	5.7	EPA 200.7
MANGANESE, TOTAL (ug/l)	7.6	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	7.6	EPA 200.7
NITRATE-NITROGEN	4.7	EPA 300

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS KIRCHNER

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6	FIELD
pH-LAB (SU)	6.06	SM4500B
POTASSIUM, TOTAL	1.6	EPA 200.7
POTASSIUM, DISSOLVED	1.9	EPA 200.7
SODIUM, TOTAL	15.6	EPA 200.7
SODIUM, DISSOLVED	16	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	234	FIELD
SPEC. COND., LAB (umhos/cm)	236	EPA 120.1
SULFATE	9	EPA 300
ALKALINITY	14	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	162	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.16	SM 2130B

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS KIRCHNER

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	1 ND	EPA 524.2
1,2-DIBROMOETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHENE	1 ND	EPA 524.2
1,2-DICHLOROETHANE	1 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
ETHYLBENZENE	1 ND	EPA 524.2
METHYLENE CHLORIDE	1 ND	EPA 524.2
TETRACHLOROETHENE	1 ND	EPA 524.2
TOLUENE	1 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	1 ND	EPA 524.2
TRICHLOROETHENE	1 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	1 ND	EPA 524.2
VINYL CHLORIDE	1 ND	EPA 524.2
XYLENES (TOTAL)	3 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

	Date Prepared/Revised 10/15/2021	
DEP USE ONLY		
	Date Received	

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

General Reference: Act 101 Section 1103			
SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County: Lancaster C	county		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name:FRY			
Address: 3106 RIVER	R ROAD		
Phone No.:			
Sampling Point: Latitude: 39 o	57 17.27 Longitude: 76 0 26 5.6 "		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL		
Total Well Depth:	ft.		
Sampling Depth:	ft. Sampling Method: Pumped Bailed		
Well Purged: Yes	X No Well Volumes Purged:		
Sample Field Filtered (must be 0.45 micro			
Sample Date:(mm/dd/yy) 08/2	0/2021 Sample Collection Time: 12:02 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	09/07/2021		
Were any holding times exceeded?: Yes X No If yes, please explain in comments field.			
Comments:			

	Facility I.D. Number		
	101389		
	Monitoring Point I.D. No.		
PS	FRY		

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.117	SM4500D
BICARBONATE ALKALINITY	19	SM20-2321
CALCIUM, TOTAL	18.2	EPA 200.7
CALCIUM, DISSOLVED	18.6	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	97.5	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	12.7	EPA 200.7
MAGNESIUM, DISSOLVED	12.5	EPA 200.7
MANGANESE, TOTAL (ug/l)	46	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	45	EPA 200.7
NITRATE-NITROGEN	9.5	EPA 300

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number

101389

Monitoring Point I.D. No. FRY

PS

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.24	FIELD
pH-LAB (SU)	6.26	SM4500B
POTASSIUM, TOTAL	3.1	EPA 200.7
POTASSIUM, DISSOLVED	3.4	EPA 200.7
SODIUM, TOTAL	39.3	EPA 200.7
SODIUM, DISSOLVED	41.3	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	508	FIELD
SPEC. COND., LAB (umhos/cm)	513	EPA 120.1
SULFATE	7.2	EPA 300
ALKALINITY	19	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	286	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.65	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.67	SM 2130B

T Please indicate detection limit if analyte is not detected.

Facility I.D. Number 101389

Monitoring Point I.D. No.

PS FRY

Sample Date

08/20/2021

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	1 ND	EPA 524.2
1,2-DIBROMOETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHENE	1 ND	EPA 524.2
1,2-DICHLOROETHANE	1 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
ETHYLBENZENE	1 ND	EPA 524.2
METHYLENE CHLORIDE	1 ND	EPA 524.2
TETRACHLOROETHENE	1 ND	EPA 524.2
TOLUENE	1 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	1 ND	EPA 524.2
TRICHLOROETHENE	1 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	1 ND	EPA 524.2
VINYL CHLORIDE	1 ND	EPA 524.2
XYLENES (TOTAL)	3 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised 10/15/2021
DEP USE ONLY
Date Received

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

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

General Reference: Act 101 Section	1103
	SECTION A. SITE IDENTIFIER
Applicant/permittee:	ancaster County Solid Waste Manage
Site Name: F	rey Farm Landfill
Facility ID (as issued by DEP):	01389
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S")
Facility Name: Frey Farm L	andfill
County: Lancaster C	County
Township or Municipality: MANOR TO	WNSHIP
Landowner Name:BECK	
Address: 3125 RIVE	R ROAD
Phone No.:	
Sampling Point: Latitude: 39 o	57 ' 11.6 " Longitude: 76 ° 26 ' 5.4 "
Depth to Water Level:	ft. Measured from: X Land Surface TOC
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL
Total Well Depth:	
Sampling Depth:	ft. Sampling Method: Pumped Bailed
Well Purged: Yes	X No Well Volumes Purged:
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No
Sample Date:(mm/dd/yy) 08/2	0/2021 Sample Collection Time: 1:01 PM
Laboratory(ies) Performing Analysis	ALS Environmental
(include address and phone number)	301 Fulling Mill Road
	Middletown, PA 17057 (717) 944-5541
Lab Accreditation Number(s)	22-293
Lab Analysis Date	09/07/2021
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.
Comments:	

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS BECK

Sample Date

08/20/2021

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.152	SM4500D
BICARBONATE ALKALINITY	12	SM20-2321
CALCIUM, TOTAL	0.099	EPA 200.7
CALCIUM, DISSOLVED	0.1 ND	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	81.4	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	0.05 ND	EPA 200.7
MAGNESIUM, DISSOLVED	0.1 ND	EPA 200.7
MANGANESE, TOTAL (ug/l)	2.5 ND	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	5 ND	EPA 200.7
NITRATE-NITROGEN	10.5	EPA 300

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS BECK

Sample Date

08/20/2021

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.04	FIELD
pH-LAB (SU)	6.12	SM4500B
POTASSIUM, TOTAL	0.55	EPA 200.7
POTASSIUM, DISSOLVED	0.77	EPA 200.7
SODIUM, TOTAL	150	EPA 200.7
SODIUM, DISSOLVED	164	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	441	FIELD
SPEC. COND., LAB (umhos/cm)	450	EPA 120.1
SULFATE	11.9	EPA 300
ALKALINITY	12	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	254	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.76	SM 2130B

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS BECK

Sample Date

08/20/2021

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	1 ND	EPA 524.2
1,2-DIBROMOETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHANE	1 ND	EPA 524.2
1,1-DICHLOROETHENE	1 ND	EPA 524.2
1,2-DICHLOROETHANE	1 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	1 ND	EPA 524.2
ETHYLBENZENE	1 ND	EPA 524.2
METHYLENE CHLORIDE	1 ND	EPA 524.2
TETRACHLOROETHENE	1 ND	EPA 524.2
TOLUENE	1 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	1 ND	EPA 524.2
TRICHLOROETHENE	1 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	1 ND	EPA 524.2
VINYL CHLORIDE	1 ND	EPA 524.2
XYLENES (TOTAL)	3 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.





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

September 13, 2021

Mr. Daniel Brown Lancaster County Solid Waste Authority 1299 Hbg Pike, P.O. Box 4425 Lancaster, PA 17604

Certificate of Analysis

Project Name: **CONTIGUOUS LANDOWNER-**

3106 RIVER RD

PO-1000371

Workorder: 3196413

Workorder ID: 3RD QTR 2021-3106 RIVER RD

Purchase Order: Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 20, 2021.

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 Ms. Susan J 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 Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Ashley Gichuki, Ms. Jordan Gallagher, Landowner, Mr. Jeff

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

Ms. Susan J Scherer **Project Coordinator**

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Report ID: 3196413 - 9/13/2021 Page 1 of 10





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

SAMPLE SUMMARY

Workorder: 3196413 3RD QTR 2021-3106 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3196413001	3106 River Road, Conestoga, PA	Water	8/20/2021 12:02	8/20/2021 17:25	Mr. Brian G Shade

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Report ID: 3196413 - 9/13/2021 Page 2 of 10





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SAMPLE SUMMARY

Workorder: 3196413 3RD QTR 2021-3106 RIVER RD

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).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- 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.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- 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

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Report ID: 3196413 - 9/13/2021 Page 3 of 10





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

PROJECT SUMMARY

Workorder: 3196413 3RD QTR 2021-3106 RIVER RD

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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Report ID: 3196413 - 9/13/2021 Page 4 of 10





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

ANALYTICAL RESULTS

Workorder: 3196413 3RD QTR 2021-3106 RIVER RD

Lab ID: 3196413001 Date Collected: 8/20/2021 12:02 Matrix: Water

Sample ID: 3106 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

VOLATILE ORGANICS Benzene ND C ug/L 1.0 SW846 8260B 8/27/21 03:07 PDK J 1,2-Dibromoethane ND C ug/L 1.0 SW846 8260B 8/27/21 03:07 PDK J 1,1-Dichloroethane ND C ug/L 1.0 SW846 8260B 8/27/21 03:07 PDK J 1,2-Dichloroethane ND C ug/L 1.0 SW846 8260B 8/27/21 03:07 PDK J 1,1-Dichloroethene ND C ug/L 1.0 SW846 8260B 8/27/21 03:07 PDK J cis-1,2-Dichloroethene ND C ug/L 1.0 SW846 8260B 8/27/21 03:07 PDK J Ethylbenzene ND C ug/L 1.0 SW846 8260B 8/27/21 03:07 PDK J Ethylbenzene ND C ug/L 1.0 SW846 8260B 8/27/21 03:07 PDK J Hethylbenzene ND C ug/L	
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Alkalinity, Bicarbonate 19 C mg/L 5 SM2320B-2011 8/30/21 23:52 MBS C	
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Alkalinity, Total 19 C,1 mg/L 5 SM2320B-2011 8/30/21 23:52 MBS A	
Ammonia-N 0.117 C mg/L 0.100 ASTM D6919-09 9/3/21 00:18 ALK B	
Chemical Oxygen Demand ND C mg/L 15 EPA 410.4 9/2/21 13:25 ALK B (COD)	
Chloride 97.5 C mg/L 2.0 EPA 300.0 8/21/21 08:59 MBS C	
Fluoride ND C mg/L 0.20 EPA 300.0 8/21/21 08:59 MBS C	
Halogen, Total Organic ND C ug/L 20.0 SW846 9020B 8/25/21 16:38 PAG I (TOX)	
Nitrate-N 9.5 C mg/L 0.20 EPA 300.0 8/21/21 08:59 MBS C	
Nitrite-N ND C mg/L 0.20 EPA 300.0 8/21/21 08:59 MBS C	
pH 6.26 C,2 pH_Units S4500HB-11 8/30/21 23:52 MBS C	
Phenolics ND C mg/L 0.005 EPA 420.4 9/2/21 18:17 MXF 9/7/21 09:36 MXF H	
Specific Conductance 513 C umhos/cm 1 SM2510B-2011 9/3/21 13:00 MBS C	

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Report ID: 3196413 - 9/13/2021 Page 5 of 10





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

ANALYTICAL RESULTS

Workorder: 3196413 3RD QTR 2021-3106 RIVER RD

Lab ID: 3196413001 Date Collected: 8/20/2021 12:02 Matrix: Water

Sample ID: 3106 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

tal Dissolved Solids 286 C mg/L 25 S2540C-11 8/24/21 11:16 BBD C tal Organic Carbon (TOC) 0.65 C mg/L 0.50 SM5310B-2011 8/25/21 00:35 PAG F rbidity 0.67 C NTU 0.10 SM2130B-2011 8/21/21 07:06 LXZ C ETALS alcium, Total 18.2 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 alcium, Dissolved 18.6 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E m, Total ND C mg/L 0.030 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 an, Dissolved ND C mg/L 0.060 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Total 12.7 C mg/L 0.060 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Dissolved 12.5 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and an angenesium, Dissolved 12.5 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Dissolved 12.5 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Dissolved 12.5 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Dissolved 12.5 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 1	8/21/21 08:59 MB 8/24/21 11:16 BB 8/25/21 00:35 PA	Ву	Prepared	Method	RDL	Units	Flag	Dogulto	D
tal Dissolved Solids 286 C mg/L 25 S2540C-11 8/24/21 11:16 BBD C tal Organic Carbon (TOC) 0.65 C mg/L 0.50 SM5310B-2011 8/25/21 00:35 PAG F rbidity 0.67 C NTU 0.10 SM2130B-2011 8/21/21 07:06 LXZ C ETALS alcium, Total 18.2 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 alcium, Dissolved 18.6 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E m, Total ND C mg/L 0.030 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 an, Dissolved ND C mg/L 0.060 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Total 12.7 C mg/L 0.060 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Dissolved 12.5 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and an angenesium, Dissolved 12.5 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Dissolved 12.5 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Dissolved 12.5 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Dissolved 12.5 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E magnesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 and angenesium, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 1	8/24/21 11:16 BB 8/25/21 00:35 PA						i iay	Results	Parameters
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ETALS Idicium, Total	9/21/21 07:06 IV			SM5310B-2011	0.50	mg/L	С	0.65	Total Organic Carbon (TOC)
ldcium, Total 18.2 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 alcium, Dissolved 18.6 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E nn, Total ND C mg/L 0.030 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved ND C mg/L 0.060 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E agnesium, Total 12.7 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissolved 12.5 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 nn, Dissol	0/21/21 U1.00 LA			SM2130B-2011	0.10	NTU	С	0.67	Turbidity
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n, Dissolved ND C mg/L 0.060 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E agnesium, Total 12.7 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1 agnesium, Dissolved 12.5 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E anganese, Total 0.046 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1	8/27/21 14:38 SR	SRT	8/27/21 07:07	EPA 200.7	0.10	mg/L	С	18.6	Calcium, Dissolved
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3 111	8/27/21 14:38 SR	SRT	8/27/21 07:07	EPA 200.7	0.10	mg/L	С	12.5	Magnesium, Dissolved
	8/24/21 09:24 SR	AHI	8/22/21 11:28	EPA 200.7	0.0025	mg/L	С	0.046	Manganese, Total
anganese, Dissolved 0.045 C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E	8/27/21 14:38 SR	SRT	8/27/21 07:07	EPA 200.7	0.0050	mg/L	С	0.045	Manganese, Dissolved
tassium, Total 3.1 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1	8/24/21 09:24 SR	AHI	8/22/21 11:28	EPA 200.7	0.25	mg/L	С	3.1	Potassium, Total
tassium, Dissolved 3.4 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E	8/27/21 14:38 SR	SRT	8/27/21 07:07	EPA 200.7	0.50	mg/L	С	3.4	Potassium, Dissolved
dium, Total 39.3 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:24 SRT D1	8/24/21 09:24 SR	AHI	8/22/21 11:28	EPA 200.7	0.25	mg/L	С	39.3	Sodium, Total
dium, Dissolved 41.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:38 SRT E	8/27/21 14:38 SR	SRT	8/27/21 07:07	EPA 200.7	0.50	mg/L	С	41.3	Sodium, Dissolved
ELD PARAMETERS									FIELD PARAMETERS
I, Field (SM4500B) 6.24 C pH_Units Field 8/20/21 12:02 BGS L	8/20/21 12:02 BG			Field		pH_Units	С	6.24	pH, Field (SM4500B)
ecific Conductance, Field 508 C umhos/cm 1 Field 8/20/21 12:02 BGS L	8/20/21 12:02 BG			Field	1	umhos/cm	С	508	Specific Conductance, Field
mperature 15.20 C Deg. C Field 8/20/21 12:02 BGS L	9/20/21 12:02 BC			Field		Deg. C	С	15.20	Temperature

Ms. Susan J Scherer Project Coordinator

Report ID: 3196413 - 9/13/2021 Page 6 of 10





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

ANALYTICAL RESULTS

Workorder: 3196413 3RD QTR 2021-3106 RIVER RD

PARAMETER QUALI	IFIERS
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Lab ID	#	Sample ID	Analytical Method	Analyte
3196413001	1	3106 River Road, Conestoga, PA	SM2320B-2011	Alkalinity, Total
The Total Alkalinity	is titrate	ed to a pH of 4.5 and reported as mg (CaCO3/L.	
3196413001	2	3106 River Road, Conestoga, PA	S4500HB-11	pH

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.

ALS Environmental Laboratory Locations Across North America

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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

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3196413 3RD QTR 2021-3106 RIVER RD

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3196413001	3106 River Road, Conestoga, PA	ASTM D6919-09		
3196413001	3106 River Road, Conestoga, PA	EPA 200.7	EPA ACID	
3196413001	3106 River Road, Conestoga, PA	EPA 200.7	EPA TRMD	
3196413001	3106 River Road, Conestoga, PA	EPA 300.0		
3196413001	3106 River Road, Conestoga, PA	EPA 410.4		
3196413001	3106 River Road, Conestoga, PA	EPA 420.4	420.4/9066	
3196413001	3106 River Road, Conestoga, PA	Field		
3196413001	3106 River Road, Conestoga, PA	S2540C-11		
3196413001	3106 River Road, Conestoga, PA	S4500HB-11		
3196413001	3106 River Road, Conestoga, PA	SM2130B-2011		
3196413001	3106 River Road, Conestoga, PA	SM2320B-2011		
3196413001	3106 River Road, Conestoga, PA	SM2510B-2011		
3196413001	3106 River Road, Conestoga, PA	SM5310B-2011		
3196413001	3106 River Road, Conestoga, PA	SW846 8260B		
3196413001	3106 River Road, Conestoga, PA	SW846 9020B		

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Report ID: 3196413 - 9/13/2021 Page 8 of 10

ALL STADES AREAS MUST BE COMPLETED BY THE QUERY	*		(0)			REO	HAIN	CHAIN OF CUSTODY/	STOD	SIS	Con	Generated by ALS	0_	# 202	3196413	- jo
The Control of Contr	(ALS) Enufronmental Happitals enufronmental	M. F. William County (1)		A	LL SHA	DED AR	EAS MU	ST BE CC	MPLETE	DBYTH	ECLEN	1.1	Id			-
Authority Auth	301 Fulling Mill Road + Middletown, PA.17057 + 717	944,5541 * Fax.7	17,944,1430		¥	SAMPL	ER. INS	RUCTIO	NS ON T	HE BAC			1	it		
Consisting PATE No. Consistency No. Consiste	Client Name: LCSWMA - Aaron Fry			Contamor	AG	AN	AN	90	1	చ	7	ď	굽		eceipt Information (completed by secureti	ng Lab)
Family F	Address: 3106 River Road			Contanor	40 m)	125 ml	250 ml	40 ml	1		-	_	-		Therm ID:	
### Sample Best-prior of Time	Conestoga, PA 17516			Preservative	오	H2S04	H2S04	호	1					-	χ.	Initial
Comments Comment Com	Contact: Aaron Fry				1		ANA	LYSES/M	ETHOD R	COUESTE	Q				Custody Seals Present?	
CONTACT CONT	Phone#: (717) 669-6831										1				(if present) Seals Intact?	
X Normal-Standard TAT is 10-12 business days. X Normal-Standard TAT is 10-12 business da	Project Name/#: LCSWMA - Quarterly		1	_							IJW 'E		44		Received on Ice?	Ī
New All Subject to A.S. approved By: New All B	Bill To: LCSWMA - Aaron Fry										SW ta		os	2	:DC/Labels Complete/Accurate?	
The property of the property	TAT X Normal-Standard TAT is 10 Rush-Subject to ALS appro	-12 business divided and surcha	ays.					NOC®			tals: Ca, Fe		", NO3, CI.	60	Cont. in Good Cond.? Correct Containers?	
1-1 No. 1-2	γ-mann-	phiotes of	I					8260			eM be			у. нс	Correct Preservation?	
Sample Description Location Sample Time	Ш				Ó	НС	X	91/8/		-		-			Headspace/Volatiles?	
108RIVERRD	Sample Description/Location (as it will appear on the lab report)	Sample Date			ΟT	- 0	OT TO	er of Conta	iners Per	Z Z	Field Resu	Me Below.		100	rier/Tracking #: Sample/COC Comments	
Commonts: Code	1 3106RIVERRD	08/20/21	1202		2		2	1	J	+	e	-		+		
ALS Field Services: Pickup	2				E			3						Ŧ		
ALS Fleid Services: Plickup	3							43	2							
Retinquished By Company Name Date Time Received By Company Name Date Time Reportable to PADEP? Sample Disposal Special Navy Lab	4							5								
Composite Comp	5															
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Code Bry Signature Expression Expr	6					I								Ĭ	OPickup ORental	Labor
Standard Special Processing Special Process	10								ij							
Reviewed By / Company Name Date Time Received By / Company Name Date Time Date Time Date Time Date	Project Comments:	3	OGGED BY(s	ignature):					317/1		3174		Sə	Standar	Special Processing	Samples
Relinquished By / Company Name Date Time Received By / Company Name Date		æ	EVIEWED BY	(signature)					3120		30/4			OLP-like	USACE	ected In
Reportable to PADEP? Sample Disposal X	Relinquished By / Company Na		Date 3.0-7 i	Time Pyl C	.5	Rece	ived By /	Company	Name	_	-	Time 725		USACE		÷ 3
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- 10	2				. 60					Ī		Ť	WSID #	1	Special	
	o				9				1				EDDS: F	ormat Type-		



301 Fulling Mill Road Middletown, PA 17057 P: (717) 944-5541 F: (717) 944-1430

Condition of Sample Receipt Form 3196413

Client: V	Lancaster County Solid Waste Authority	Initials: Do	ate:	12:12	1
I. Ware airbills / tracking numbers present an	d recorded?		MONE	YES	NO
	racking number	-			,,,,,
2. Are Custody Seals on smaping containers in	11.2077		ONE	YES	NO
3. Are Custody Seals on sample containers int			MONE	YES	SO
4. Is there a COC (Chalmof-Custody) present?.	***** (******** (*********************			NES.	NO
5. Are the COC and bottle labels complete. let	pb s and magreen surv			NE5	NO
5a. Does the COC contain sample location	P	(Fig. 16) = 1 (Fig. 181) = 10 (Fig. 181) (Fig. 181) (Fig. 181)		YES	NO
5b. Does the COC contain date and time o	sample to estion for all samples?	1		YES	NO
Sc. Does the COC contain sample collector				YES	No
5d. Does the COC note the type is of prese	cation for all porries !		100-100-10	YES	NE
Se. Does the COC note the number of both				YES	'NO
5f. Does the COC note the type of sample	composité or glab?	**************************************		YES	CN
5g. Does the COC note the matrix of the s.	imple si ²			YES	NO
 Are all auritous samples requiring preserva 	on preserved conscrip-		5. /A	YES-	NO
7. Were all samples placed in the proper cons	uners for the requested analyses, with	sufficient volume?		CES	NO.
S. Are all samples within holding times for the	requested analyses?			TES	NO.
9. Were all sample containers received intact a				YES	NO.
10. Did we receive the blanks applies only fo	rinsthods EPA 504; EPA 524.2 and 10	Take LL Hg?	NA	YES	No.
11. Were the samples received on ice?				SES	NO.
12. Were sample temperatures measured at 6				(TES	NO
13. Are the samples DW matrix 21f YES, fill our	Reportable Drinking Water questions	beigw		YES	CNO
13a. Are the samples required for SDWA of			N. A	YES	NO.
136. Did the client provide a SDAA PWS ID				YES	No
Fac. Are all aqueous unpreserved SDWA so			NYA	YES	NO:
13d. Did the ment provide the SDWA samp			NA	YES	No
13e, Did the client provide the SDAA samp			1. 1	YES	60
Copier =	territoris statutatid graditati kirji koti. Yurati ngi kinasananan kirinin kata yarat m	TO STATE A STRANGE LANGUAGE HAR RECOGNISHED A STRANGE OF THE STRAN		*****	
-			_		
Température (°C)					
Thermometer ID 5 15					
Radiological (µCi)					

COMMENTS (Required for all NO responses above and any sample non-conformance):

Final determination of correct preservation for analysis such as valatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

Res 1/20 2020





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September 13, 2021

Mr. Daniel Brown Lancaster County Solid Waste Authority 1299 Hbg Pike, P.O. Box 4425 Lancaster, PA 17604

Certificate of Analysis

Project Name: **CONTIGUOUS LANDOWNER-**

3100 RIVER RD

PO-1000371

Workorder: 3196414

Workorder ID: 3RD QTR 2021-3100 RIVER RD

Purchase Order: Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 20, 2021.

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 Ms. Susan J 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 Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Ashley Gichuki, Ms. Jordan Gallagher, Landowner, Mr. Jeff

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

Ms. Susan J Scherer **Project Coordinator**

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SAMPLE SUMMARY

Workorder: 3196414 3RD QTR 2021-3100 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3196414001	3100 River Road, Conestoga, PA	Water	8/20/2021 11:56	8/20/2021 17:25	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 3196414 3RD QTR 2021-3100 RIVER RD

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).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- 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.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
 RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- 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

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PROJECT SUMMARY

Workorder: 3196414 3RD QTR 2021-3100 RIVER RD

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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ANALYTICAL RESULTS

Workorder: 3196414 3RD QTR 2021-3100 RIVER RD

Lab ID: 3196414001 Date Collected: 8/20/2021 11:56 Matrix: Water

Sample ID: 3100 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
VOLATILE ORGANICS										
Benzene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
1,2-Dibromoethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
1,1-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
1,2-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
1,1-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
cis-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
trans-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
Ethylbenzene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
Methylene Chloride	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
Tetrachloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
Toluene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
Total Xylenes	ND	С	ug/L	3.0	SW846 8260B			8/27/21 03:30	PDK	J
1,1,1-Trichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
Trichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
Trichlorofluoromethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
Vinyl Chloride	ND	С	ug/L	1.0	SW846 8260B			8/27/21 03:30	PDK	J
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1,2-Dichloroethane-d4 (S)	91.3	С	%	62 - 133	SW846 8260B			8/27/21 03:30	PDK	J
4-Bromofluorobenzene (S)	95.8	С	%	79 - 114	SW846 8260B			8/27/21 03:30	PDK	J
Dibromofluoromethane (S)	88.9	С	%	78 - 116	SW846 8260B			8/27/21 03:30	PDK	J
Toluene-d8 (S)	89.7	С	%	76 - 127	SW846 8260B			8/27/21 03:30	PDK	J
WET CHEMISTRY										
Alkalinity, Bicarbonate	14	С	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	С
Alkalinity, Total	14	C,1	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	Α
Ammonia-N	0.146	С	mg/L	0.100	ASTM D6919-09			9/1/21 22:29	ALK	В
Chemical Oxygen Demand (COD)	ND	С	mg/L	15	EPA 410.4			9/2/21 13:15	ALK	В
Chloride	40.6	С	mg/L	2.0	EPA 300.0			8/21/21 08:45	MBS	С
Fluoride	ND	С	mg/L	0.20	EPA 300.0			8/21/21 08:45	MBS	С
Halogen, Total Organic (TOX)	ND	С	ug/L	20.0	SW846 9020B			8/25/21 17:03	PAG	1
Nitrate-N	4.7	С	mg/L	0.20	EPA 300.0			8/21/21 08:45	MBS	С
Nitrite-N	ND	С	mg/L	0.20	EPA 300.0			8/21/21 08:45	MBS	С
рН	6.06	C,2	pH_Units		S4500HB-11			8/30/21 23:52	MBS	С
Phenolics	ND	Ċ	mg/L	0.005	EPA 420.4	9/2/21 18:17	MXF	9/7/21 09:36	MXF	Н
Specific Conductance	236	C	umhos/cm	1	SM2510B-2011			9/3/21 13:00	MBS	С

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ANALYTICAL RESULTS

Workorder: 3196414 3RD QTR 2021-3100 RIVER RD

Lab ID: 3196414001 Date Collected: 8/20/2021 11:56 Matrix: Water

Sample ID: 3100 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
Sulfate	9.0	С	mg/L	2.0	EPA 300.0			8/21/21 08:45	MBS	С
Total Dissolved Solids	162	С	mg/L	25	S2540C-11			8/24/21 11:16	BBD	С
Total Organic Carbon (TOC)	ND	С	mg/L	0.50	SM5310B-2011			8/25/21 00:35	PAG	F
Turbidity	0.16	С	NTU	0.10	SM2130B-2011			8/21/21 07:06	LXZ	С
METALS										
Calcium, Total	12.6	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:34	SRT	D1
Calcium, Dissolved	12.2	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:41	SRT	Ε
ron, Total	ND	С	mg/L	0.030	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:34	SRT	D1
ron, Dissolved	ND	С	mg/L	0.060	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:41	SRT	Е
Magnesium, Total	6.0	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:34	SRT	D1
Magnesium, Dissolved	5.7	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:41	SRT	Е
Manganese, Total	0.0076	С	mg/L	0.0025	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:34	SRT	D1
Manganese, Dissolved	0.0076	С	mg/L	0.0050	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:41	SRT	Е
Potassium, Total	1.6	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:34	SRT	D1
Potassium, Dissolved	1.9	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:41	SRT	Е
Sodium, Total	15.6	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:34	SRT	D1
Sodium, Dissolved	16.0	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:41	SRT	Ε
FIELD PARAMETERS										
oH, Field (SM4500B)	6.00	С	pH_Units		Field			8/20/21 11:56	BGS	L
Specific Conductance, Field	234	С	umhos/cm	1	Field			8/20/21 11:56	BGS	L
Temperature	15.30	С	Deg. C		Field			8/20/21 11:56	BGS	L

Ms. Susan J Scherer Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3196414 3RD QTR 2021-3100 RIVER RD

Lab ID	#	Sample ID	Analytical Method	Analyte
3196414001	1	3100 River Road, Conestoga, PA	SM2320B-2011	Alkalinity, Total
The Total Alkalinity is	s titrate	d to a pH of 4.5 and reported as mg 0	CaCO3/L.	
3196414001	2	3100 River Road, Conestoga, PA	S4500HB-11	рН
			rs identified as "analyze immediately" ding time when analyzed in the laborat	

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3196414 3RD QTR 2021-3100 RIVER RD

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3196414001	3100 River Road, Conestoga, PA	ASTM D6919-09		
3196414001	3100 River Road, Conestoga, PA	EPA 200.7	EPA ACID	
3196414001	3100 River Road, Conestoga, PA	EPA 200.7	EPA TRMD	
3196414001	3100 River Road, Conestoga, PA	EPA 300.0		
3196414001	3100 River Road, Conestoga, PA	EPA 410.4		
3196414001	3100 River Road, Conestoga, PA	EPA 420.4	420.4/9066	
3196414001	3100 River Road, Conestoga, PA	Field		
3196414001	3100 River Road, Conestoga, PA	S2540C-11		
3196414001	3100 River Road, Conestoga, PA	S4500HB-11		
3196414001	3100 River Road, Conestoga, PA	SM2130B-2011		
3196414001	3100 River Road, Conestoga, PA	SM2320B-2011		
3196414001	3100 River Road, Conestoga, PA	SM2510B-2011		
3196414001	3100 River Road, Conestoga, PA	SM5310B-2011		
3196414001	3100 River Road, Conestoga, PA	SW846 8260B		
3196414001	3100 River Road, Conestoga, PA	SW846 9020B		

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All Shipped Law Location All Shipped Law All Shipped Law	34 Dogwood Lane - Middletown, PA 17057 - 747 344 5541 - Hent Name: LCSWMA - Larry Kirchner		1			NEWS EST TOTAL SIS		1				1		1 107	
Second Converged by Second Seco	lient Name: LCSWMA - Larry Kirchner	Fax: 717,944,140		ALL SHA	DED ARI SAMPLI	EAS MUS ER. INST	T BE CO RUCTION	MPLETE IS ON TI	D BY TH HE BACK	E CLIEN	/1	A			-
Address: 3100 Rever Read Storing Storing			Contaner	AG	AN	AN	93	1	4		P.	P.	7		eceiving Lab)
Controlling PA 1756 Figor Figor	Address: 3100 Kiver Koad		Contener	40 ml	125 ml	250 ml	40 ml	1			-	-		Temp: Therm ID:	er.
Fig.	Conestoga, PA 17516		Preservative	1	H2S04	H2S04	맞	1			-		-		
A Comment	ontact: Larry Kirchner					ANAL	YSES/ME	THOD RE	QUESTE	6				Custody Seals Present?	
Total Culturester County & C	hone#: (717) 584-0030												I	(if present) Seals Intact?	
	roject Name/#: LCSWMA - Quarterly								~14	Ellor '		-00		Received on Ice?	
TAT	ill To: Lancaster County Solid Waste MA								~14	fac.	_	100	/202	abels Complete/Accurate?	
Sample Description Location Sample Date Time Sample Date Time Sample Description Location Date Time Date Dat	× jär	ness days. surcharges. f By:					Seo Aoca			"Heldis, Vd, Fe,			-	Cont. in Good Cond.? Correct Containers? Correct Sample Volumes?	
Sample Description Location Sample Date Time 20 20 20 20 20 20 20 2			_	1	Н	1	8-914					Ode	, Çimity,	Lorder Preservation /	
The control of the		H) 10 E	201		хот	8MS	EW	CHN:	K' NS	etaM r Ho	s ,dT	- 27	readspacevolatiles	
3100RIVERRD 08/20021 1156 G DW 2 1 2 2/3 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	sear on the lab report)	+	э,		E	ter Numbe	r of Contai	ners Per S	ample or F	eld Resul	s Below.			Sample/COC Comments	
Company Name Carpote	3100RIVERRD	-	O	40	-	2			+	1	40	5	-		
ALS Field Services: Prickur									1						
ALS Field Services: Pickur							12/2	<							
ALS Field Services: Phickup							2								
O		4							+						
October Pickur Composite Sampling Pickur Pic		-							1			5			
Composite Sampling Reviewed By Comments: Composite Sampling Reviewed By Comments Reviewed By Company Name Date Time Received By Company Name Date Time Received By Company Name Date Time Reportable to PADEP? Sample Disposal Special Processing Reportable to PADEP? Sample Disposal Lab X Special Special Reportable to PADEP? Sample Disposal Lab X Special Reportable to PADEP? Sample Disposal Lab X Special Reportable to PADEP? Reportable to PADEP? Reportable to PADEP? Lab X Special Reportable to PADEP? Reportable to PADEP? Reportable to PADEP? Lab X Special Reportable to PADEP? Reportable to PADEP? Lab X Special Reportable to PADEP? Lab						ħ									k
Continents: LogGED BY (signature): RevieweD BY (signature): RevieweD BY (signature): RevieweD BY (signature): RevieweD BY (Company Name Date Time Date Time Date Time Received BY (Company Name Date Time Date													ALS	ш	□Labor
Code Date Time Received By Company Name Date Time Sandard Special Processing															Equipment
Reviewed By Company Name Date Time Received By Company Name Date Time Cl.P-like USACE Navy Cl.D-like USACE USACE USACE Navy Cl.D-like USACE US	oject Comments:	LOGGED	3Y(signature);					7,70		8744	r	s	Standard	Special Processing	tate Samples
Relinquished By / Company Name Date Time Received By / Company Name Date Time Received By / Company Name Date Time Received By / Company Name Nawy Relinquished By / Company Name Date Time Received By / Company Name Nawy Received By / Company Name Nawy Received By / Company Name Nawy Received By / Company Name Namble Disposal X Received By / Company Name N		REVIEWE) BY(signature)					TIVE		3//1	Ette	eldsn	CLP-like		Collected in
A	Relinquished By / Company Name	Date	Time 73.55	3.	Receiv	ed By / Co	mpany N	ame	-	-	۱ و		USACE	Navy	ž ž
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				10							ш	DDS: For	nat Type-		



301 Fulling Mill Road Middletown, PA 17057 P: (717) 944-5541 F: (717) 944-1430

3196414

" of Sample Receipt Form

Client: Work C	Lancaster County Solid Waste Authority	Initials: Date:	/20/.	3)
1. Were airbills / tracking numbers present and re-	corded?	MONE.	YES	NO
	ing number			
2. Are Custody Seals on allipping containers intect			YES	No
3. Are Custody Seals on sample containers infact?			YES	NO
4. Is there a COC (Chain-of-Eustody) present?			YES	NO
5. Are the COC and bottle labels complete, legible			NE5	NO
5a. Does the COC contain sample locations?			YES	NO
3b Does the COC contain date and time of san			VES	NO
Sc. Does the COC contain sample collectors na-			VES	NO
5d. Does the COC note the type(s) of presentable			YES	No
Se. Does the COC nate the number of bottles s				NO.
Fr. Does the COC note the type of sample, com				NO.
5g. Does the COC note the matrix of the sample			YES	NO
G. Are all agreous samples requiring preservation		N.A	OES	NG
7. Were all samples placed in the proper container	s for the requested analyses with si			NO
St Are all samples within holding times for the requ			YES	140
 Were all sample containers received intact and t 				NO
10. Did we receive trip blanks i applies only for in-			YES.	NO
III. Were the samples received on ree?			YES.	NO.
12. Were sample temperatures measured at 0.0-6.0			MES.	NO.
13. Are tire samples DW matrix ? If YES, fill out Reg	ortable Drinking Water nuestions be	elov.	YES	NO
13a. Are the samples required for SDWA compli	ance reporting"	A 14	YES	DIO
13h. Old the client provide a SDWA PWS ID=2			YES	NO
13c. Are all aqueous unpreserved SDWA sample			YES	NO
13d. Did the client provide the SDMA sample to			YES	NO
13e. Ond the client provide the SDWA sample ty			YES	-NO
Cooler #		200		
Temperature (°C)				
Thermometer (D 5 +)				
Radiological (pČi)				

COMMENTS (Required for all NO responses above and any sample non-conformance):

Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analysical department at the time of or following the analysis:

B+ + + 2027





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September 13, 2021

Mr. Daniel Brown Lancaster County Solid Waste Authority 1299 Hbg Pike, P.O. Box 4425 Lancaster, PA 17604

Certificate of Analysis

Project Name: **CONTIGUOUS LANDOWNER-**

3088 RIVER RD

PO-1000371

Workorder: 3196415

Workorder ID: 3RD QTR 2021-3088 RIVER RD

Purchase Order: Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 20, 2021.

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 Ms. Susan J 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 Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Ashley Gichuki, Ms. Jordan Gallagher, Landowner, Mr. Jeff

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

Ms. Susan J Scherer **Project Coordinator**

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SAMPLE SUMMARY

Workorder: 3196415 3RD QTR 2021-3088 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3196415001	3088 River Road, Conestoga PA	Water	8/20/2021 12:52	8/20/2021 17:25	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 3196415 3RD QTR 2021-3088 RIVER RD

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).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- 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.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
 PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- 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

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PROJECT SUMMARY

Workorder: 3196415 3RD QTR 2021-3088 RIVER RD

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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ANALYTICAL RESULTS

Workorder: 3196415 3RD QTR 2021-3088 RIVER RD

Lab ID: 3196415001 Date Collected: 8/20/2021 12:52 Matrix: Water

Sample ID: 3088 River Road, Conestoga PA Date Received: 8/20/2021 17:25

C								
. ~	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	3.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 03:53	PDK	J
sults Fla	g Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
6 C	%	62 - 133	SW846 8260B			8/27/21 03:53	PDK	J
) C	%	79 - 114	SW846 8260B			8/27/21 03:53	PDK	J
С	%	78 - 116	SW846 8260B			8/27/21 03:53	PDK	J
4 C	%	76 - 127	SW846 8260B			8/27/21 03:53	PDK	J
о с	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	С
C,	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	Α
17 C	mg/L	0.100	ASTM D6919-09			9/3/21 02:07	ALK	В
C	mg/L	15	EPA 410.4			9/2/21 13:25	ALK	В
6 C	mg/L	2.0	EPA 300.0			8/21/21 09:12	MBS	С
C	mg/L	0.20	EPA 300.0			8/21/21 09:12	MBS	С
C	ug/L	20.0	SW846 9020B			8/26/21 15:22	PAG	1
C	mg/L	0.20	EPA 300.0			8/21/21 09:12	MBS	С
C	mg/L	0.20	EPA 300.0			8/21/21 09:12	MBS	С
4 C,2	pH_Units		S4500HB-11			8/30/21 23:52	MBS	С
	mg/L	0.005	EPA 420.4	9/2/21 18:17	MXF	9/7/21 09:36	MXF	Н
00 C	umhos/cm	1	SM2510B-2011			9/3/21 13:00	MBS	С
	C C C C C C C C C C C C C C C C C C C	C ug/L C y C % C % C % C % C % C % C % C % C % C wg/L C mg/L	C ug/L 1.0 C wg/L 1.0 C % 78 - 116 C % 76 - 127 C mg/L 5 C mg/L 0.100 C mg/L 0.20 C ug/L 2.0 C mg/L 0.20 C ug/L 0.20 C mg/L 0.20	C ug/L 1.0 SW846 8260B C ug/L 2.0 SW846 8260B C ug/L 2.0 EPA 300.0 C ug/L 2.0 SW846 9020B C ug/L 2.0 EPA 300.0	C ug/L 1.0 SW846 8260B C wg/L 1.0 SW846 8260B C wg/L 5 SM2320B-2011 C mg/L 5 SM2320B-2011 C mg/L 5 SM2320B-2011 C mg/L 0.100 ASTM D6919-09 C mg/L 0.20 EPA 300.0 C ug/L 2.0 EPA 300.0 C ug/L 2.0 SW846 9020B C mg/L 0.20 EPA 300.0 C ug/L 0.20 EPA 300.0 C ug/L 0.20 EPA 300.0 C mg/L 0.20 EPA 300.0 C mg/L 0.20 EPA 300.0 C mg/L 0.20 EPA 300.0	C ug/L 1.0 SW846 8260B C ug/L 5 SM2320B-2011 C mg/L 5 SM2320B-2011 C mg/L 5 SM2320B-2011 C mg/L 0.100 ASTM D6919-09 C mg/L 0.20 EPA 300.0 C ug/L 2.0 EPA 300.0 C ug/L 2.0 SW846 9020B C mg/L 0.20 EPA 300.0	C ug/L 1.0 SW846 8260B 8/27/21 03:53 C ug/L 5 SM2320B-2011 8/30/21 23:52 C mg/L 5 SM2320B-2011 8/30/21 23:52 C mg/L 0.100 ASTM D6919-09 9/3/21 02:07 C mg/L 0.100 ASTM D6919-09 9/3/21 02:07 C mg/L 0.20 EPA 300.0 8/21/21 09:12	C ug/L 1.0 SW846 8260B 8/27/21 03:53 PDK C mg/L 5 SM2320B-2011 8/30/21 23:52 MBS C mg/L 0.100 ASTM D6919-09 9/3/21 02:07 ALK C mg/L 0.20 EPA 300.0 8/21/21 09:12 MBS

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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

ANALYTICAL RESULTS

Workorder: 3196415 3RD QTR 2021-3088 RIVER RD

Lab ID: 3196415001 Date Collected: 8/20/2021 12:52 Matrix: Water

Sample ID: 3088 River Road, Conestoga PA Date Received: 8/20/2021 17:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
Sulfate	ND	С	mg/L	2.0	EPA 300.0			8/21/21 09:12	MBS	С
Total Dissolved Solids	644	С	mg/L	25	S2540C-11			8/24/21 11:16	BBD	С
Total Organic Carbon (TOC)	ND	С	mg/L	0.50	SM5310B-2011			8/25/21 00:35	PAG	F
Turbidity	0.14	С	NTU	0.10	SM2130B-2011			8/21/21 07:06	LXZ	С
METALS										
Calcium, Total	0.12	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:37	SRT	D1
Calcium, Dissolved	0.14	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:45	SRT	E
Iron, Total	ND	С	mg/L	0.030	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:37	SRT	D1
Iron, Dissolved	ND	С	mg/L	0.060	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:45	SRT	E
Magnesium, Total	0.056	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:37	SRT	D1
Magnesium, Dissolved	ND	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:45	SRT	E
Manganese, Total	ND	С	mg/L	0.0025	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:37	SRT	D1
Manganese, Dissolved	ND	С	mg/L	0.0050	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:45	SRT	E
Potassium, Total	2.3	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:37	SRT	D1
Potassium, Dissolved	2.5	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:45	SRT	E
Sodium, Total	227	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:37	SRT	D1
Sodium, Dissolved	242	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:45	SRT	E
FIELD PARAMETERS										
pH, Field (SM4500B)	7.48	С	pH_Units		Field			8/20/21 12:52	BGS	L
Specific Conductance, Field	1185	С	umhos/cm	1	Field			8/20/21 12:52	BGS	L
Temperature	17.30	С	Deg. C		Field			8/20/21 12:52	BGS	L

Ms. Susan J Scherer Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3196415 3RD QTR 2021-3088 RIVER RD

PA	RAN	IETER	QUAL	IFIERS
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Lab ID	#	Sample ID	Analytical Method	Analyte
3196415001	1	3088 River Road, Conestoga PA	SM2320B-2011	Alkalinity, Total
The Total Alkalinity	is titrate	ed to a pH of 4.5 and reported as mg	CaCO3/L.	
3196415001	2	3088 River Road, Conestoga PA	S4500HB-11	рН

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.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3196415 3RD QTR 2021-3088 RIVER RD

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3196415001	3088 River Road, Conestoga PA	ASTM D6919-09		
3196415001	3088 River Road, Conestoga PA	EPA 200.7	EPA ACID	
3196415001	3088 River Road, Conestoga PA	EPA 200.7	EPA TRMD	
3196415001	3088 River Road, Conestoga PA	EPA 300.0		
3196415001	3088 River Road, Conestoga PA	EPA 410.4		
3196415001	3088 River Road, Conestoga PA	EPA 420.4	420.4/9066	
3196415001	3088 River Road, Conestoga PA	Field		
3196415001	3088 River Road, Conestoga PA	S2540C-11		
3196415001	3088 River Road, Conestoga PA	S4500HB-11		
3196415001	3088 River Road, Conestoga PA	SM2130B-2011		
3196415001	3088 River Road, Conestoga PA	SM2320B-2011		
3196415001	3088 River Road, Conestoga PA	SM2510B-2011		
3196415001	3088 River Road, Conestoga PA	SM5310B-2011		
3196415001	3088 River Road, Conestoga PA	SW846 8260B		
3196415001	3088 River Road, Conestoga PA	SW846 9020B		

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ALL SHADED AREAS MUST BE COMPLETED BY THE CALE SAMPLER, INSTRUCTIONS ON THE BACK and CLOSE SHADE RANGE and Deb Kalbach Conesione A 1787 of 1-25 of	PH, TDS, NO2, NO3, CI, SO4, F,	ALS Que 3136413 PL Re
ame: LCSWMA - Hans Weber and Deb Kalbach s: 3088 River Road Conestoga, PA 17516 : (717) 419-7982 Namel#: LCSWMA - Quarterly LCSWMA - Hans Weber and Deb Kalbach X Normal-Standard TAT is 10-12 business days. CSWMA - Hans Weber and Deb Kalbach Approved By: CSWMA - Hans Web Abach Approved By: CSWMA - Hans Web Abach App	T Signature Metals: Ca, Fe, Mg, Mn, K, Na T Signature Metals: Ca, Fe, Mg, Mn, K, Na T Signature Metals: Ca, Fe, Mg, Mn, K, Na T Signature Metals: Ca, Fe, Mg, Mn, K, Na	Re
St. 3088 River Road Conestoga, PA 17516 Hars Weber and Deb Kalbach Conestoga, PA 17516 Hars Weber and Deb Kalbach LCSWMAA - Hans Weber and Deb Kalbach LCSWMAA - Hans Weber and Deb Kalbach LCSWMAA - Hans Weber and Deb Kalbach X Normal-Standard TAT is 10-12 business days. Approved By: Approved By: Approved By: Approved By: Angle Description/Location Sample Description/Location Sample Description/Location Sample Description/Location Sample Description/Location RIVER RD RIVER RD Comments: Reviewed By; Company Name Date Time Recent At an and the service of the service	125 m 125	Cooler Temp: Therm ID: 93 No. of Coolers: Y N Custody Seals Present?
Hans Weber and Deb Kalbach LCSWMA - Quarterly LCSWMA - Hans Weber and Deb Kalbach Mormal-Standard TAT is 10-12 business days. Approved By:	\$ PH, TDS, NO2, NO3, CI, SO4, F, ₹	No. of Coolers: Custody Seals Present? (if present) Seals Intact? Received on Ice? Cont. in Good Cond.? Correct Containers? Correct Preservation? Headspace/Volatiles? Courier/Tracking #: Sample/COC Comments
Hans Weber and Deb Kalbach	pH, TDS, NO2, NO3, CI, SO4, F,	Custo Cocilabels Cc Cor
Name/#: LCS/WMA - Varietry	pH, TDS, NO2, CI, SO4, F,	COCILabels Cor Correct Con Con Con Con Con
Namel#: LCSWMA - Quarterly LCSWMA - Hans Weber and Deb Kalbach X Normal-Standard TAT is 10-12 business days. The company Name The CSWMA - Hans Weber and Deb Kalbach Approved By: Approved By: Approved By: Bate Time Company Name Date Time Company Name Date Time Company Name Company Nam	ph. TDS, NO2, NO3, Cl. SO4, F,	COC/Labels CC Correct Correct Con
CCSWMA - Hans Weber and Deb Kalbach X Normal-Standard TAT is 10-12 business days. X Normal-Standard TAT is 10-12 business days. Approved By: C X Approved By: C Approved By: Approved By: C Approved By: Approved By: C Approv	pH, TDS, NO2, NO3, CI, SO4	COCILabels CC Correct Con
Approved By: Rush-Subject to ALS approval and surcharges. Rush-Subject to ALS approval and surcharges. Approved By: Approved By: Ample Description/Location Sample Both of the lab report) AlvER RD AlvER RD Comments: Comments: Reviewed By: Comments: Comments: Reviewed By: Comments: Reviewed By: Comments: Comments: Reviewed By: Company Name Date Time Comments: Reverence: Rever	ph, TDS, NO2, NO3, CI,	Correct Con Con Con Con Con Con Hea
quired: Approved By: CO IX	IN , SON , SOT , Hq	Correct Con Hei Courier/Trackin
Sample C Sam	ON , SQT , Hq	Courier/Trackin
Sample Description/Location Sample Description/Location Jate Time C C C C C C C C C C C C C C C C C C C	SQT, Hq	Hes Courier/Trackin
Scription/Location Sample Time © E C DW 2 1 O8/20/21 1252 G DW 2 1 Locate Device on the lab report) Locate Device on the lab report) Date Time © E C C DW 2 1 Locate DW 2 1 Locate DW 2 1 Locate DW 2 1 Reviewed By Company Name Date Time Reco	Hd	Courier/Trackin
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4	C3 L 13/23	Reportable to PADEP? Sample Disposal X PA
9	Yes	Lab X NC
8	# diswq	\$ Special
91	EDDS: F	EDDS: Format Type-



301 Fulling Mill Road Middletown, PA 17057 P: (717) 944-5541 F: (717) \$44-1430

Condition of Sample Receipt Form 3196415

Client: LC Sev VA	Work Orde L	ancaster County Solid Waste authority	tials:	Date:	E/30/3	2)
I . Were airbills / tracking numbers preser	nt and recorded?	is starfer on the security of the		MONE	YES	NO
	Tracking nun	nbec				
2. Are Custod, See's on smapning contains	ers intact?	- · · · · · · · · · · · · · · · · ·		MONE	YES	NO.
3. Are Custody Seals on sample container.					185	NO:
4. Is there a COC (Chain-of-Custody) prese					SES.	NO
5. Are the COC and bottle labels complete	e. legible and in :	agraenven*1			YES	NO
5a. Does the COC contain sample local						NO
Sp. Does the COC contain date and tin	ne of samole col	ection for all samples?			YES	No
5c. Does the COC contain sample colle	ctors hanjek	(10e)(f = 10ee = 10G)			YES	No.
3d Does the COC note the type(s) of p	reservation for a	all potites.	to control to the second of th	rene versate	. YES	NO
Se. Does the COC note the number of	bottles submitte	d for each sample			YES	NO.
5f. Does the COC note the type of sam	iple, composite c	or grabit.	+ +60+(40 mm and form) in mass	Los continu	YES	CM
5g. Does the COC note the matrix of the	he sample(s)?		de recone cue escata com a cualca	aceacana.	YES	NO.
 A/e all aqueous samples requeling press 	ervation présent	ediconectly?		N-A	SES.	NO
7. Were all samples placed in the proper c	containers for th	a requested andlyses, with suff	יייייייייייייייייייייייייייייייייייייי	* ******	(TES	ND.
8. Are all samples within holding times for	the requested :	1/13/V565 ³		G=818689149-4	ES	NO
 Were all sample containers received int 	act and headspa	ce free weet required? mot be	oher haking from eich		SES	NO.
10 Did we receive trip blants i ampli sion	ify for methods 8	PA 504, EPA 934,8 and 16818	Ol Hyp7	NA	YES	NO
i i. Ware the samples received on ice	\$4.0 \$-e0.00 epipsery.coy	tër leri le lua i la	840 (1858 ELL) (111) E. 101 E. 201 - 101		. VES	NÓ
12. Were sample temperatures mensured.	at 0.0-0.0°C		- "		CES.	NO
13. Are the samples DW matrix ? If YES, to	l out Reportable	Drinking Water questions lielo	4 -	10. 90	YES	CNO
13a, Are the samples required for SDW	A compliance re	por: 197		MA	YES	NO
13h. Did the chent provide a SDWA PW	5 ID=3	110 11 11 11 11 11 14 14 14 14 14 14 14 14	- · · · · · · · · · · · · · · · · · · ·	NA	YES	NO
13c. Are all agreeous unpreserved SDW	A samplas pH 5	,91 ₁₁₁ 11111111111111111111111111111111		NA	YES	NO
13d. Did the client provide the SOWA's	Ample location (D Description?	× × ×××××××× • • • • • • • • • • • • •	NA	YES	NO
i se i Did the silent provide the SDWA's	aniple type D. E	(i. F. C. P. \$())		N, A	YES	NO
Cocler:		CONTRACTOR OF THE PROPERTY OF	· · · · · · · · · · · · · · · · · · ·	n to the same of points	NAME AND POST OF THE OWNER, THE O	TATALAN KAMPANAN
Temperature (°C)					-	
The same of the sa						
Thermometer ID 5 +					-	
Radiological (uCi)						

COMMENTS (Required for all NO responses above and any sample non-conformance):

Final determination of correct preservation for analysis such as volatiles imicrobiology, and oil and grease is made in the analytical department as the time of or following the analysis

Par 1/11/3/36





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September 13, 2021

Mr. Daniel Brown Lancaster County Solid Waste Authority 1299 Hbg Pike, P.O. Box 4425 Lancaster, PA 17604

Certificate of Analysis

Project Name: FREY FARM Workorder: 3196416

Purchase Order: PO-1000371 Workorder ID: 3RD QTR 20213079 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 20, 2021.

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 Ms. Susan J 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 Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Ashley Gichuki , Ms. Jordan Gallagher , Mr. Jeff Musser

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

Ms. Susan J Scherer Project Coordinator

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SAMPLE SUMMARY

Workorder: 3196416 3RD QTR 20213079 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3196416001	3079RIVERRD	Water	8/20/2021 14:28	8/20/2021 17:25	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 3196416 3RD QTR 20213079 RIVER RD

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).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- 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.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
 PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- 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

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PROJECT SUMMARY

Workorder: 3196416 3RD QTR 20213079 RIVER RD

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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ANALYTICAL RESULTS

Workorder: 3196416 3RD QTR 20213079 RIVER RD

Lab ID: 3196416001 Date Collected: 8/20/2021 14:28 Matrix: Water

Sample ID: 3079RIVERRD Date Received: 8/20/2021 17:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
VOLATILE ORGANICS										
Benzene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
1,2-Dibromoethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
1,1-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
1,2-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
1,1-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
cis-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
trans-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
Ethylbenzene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
Methylene Chloride	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
Tetrachloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
Toluene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
Total Xylenes	ND	С	ug/L	3.0	SW846 8260B			8/27/21 04:15	PDK	J
1,1,1-Trichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
Trichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
Trichlorofluoromethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
Vinyl Chloride	ND	С	ug/L	1.0	SW846 8260B			8/27/21 04:15	PDK	J
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1,2-Dichloroethane-d4 (S)	91.5	С	%	62 - 133	SW846 8260B			8/27/21 04:15	PDK	J
4-Bromofluorobenzene (S)	99.5	С	%	79 - 114	SW846 8260B			8/27/21 04:15	PDK	J
Dibromofluoromethane (S)	89.1	С	%	78 - 116	SW846 8260B			8/27/21 04:15	PDK	J
Toluene-d8 (S)	90.8	С	%	76 - 127	SW846 8260B			8/27/21 04:15	PDK	J
WET CHEMISTRY										
Alkalinity, Bicarbonate	33	С	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	С
Alkalinity, Total	33	C,1	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	Α
Ammonia-N	0.143	С	mg/L	0.100	ASTM D6919-09			9/1/21 23:10	ALK	В
Chemical Oxygen Demand (COD)	ND	С	mg/L	15	EPA 410.4			9/2/21 13:19	ALK	В
Chloride	33.6	С	mg/L	2.0	EPA 300.0			8/21/21 13:25	MBS	С
Fluoride	ND	С	mg/L	0.20	EPA 300.0			8/21/21 13:25	MBS	С
Halogen, Total Organic (TOX)	ND	С	ug/L	20.0	SW846 9020B			8/26/21 15:47	PAG	1
Nitrate-N	ND	С	mg/L	0.20	EPA 300.0			8/21/21 13:25	MBS	С
Nitrite-N	ND	С	mg/L	0.20	EPA 300.0			8/21/21 13:25	MBS	С
рН	6.60	C,2	pH_Units		S4500HB-11			8/30/21 23:52	MBS	С
Phenolics	ND	Ċ	mg/L	0.005	EPA 420.4	9/2/21 18:17	MXF	9/7/21 09:36	MXF	Н
Specific Conductance	215	C	umhos/cm	1	SM2510B-2011			9/3/21 13:00	MBS	С

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ANALYTICAL RESULTS

Workorder: 3196416 3RD QTR 20213079 RIVER RD

Lab ID: 3196416001 Date Collected: 8/20/2021 14:28 Matrix: Water

Sample ID: **3079RIVERRD** Date Received: 8/20/2021 17:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
Sulfate	9.0	С	mg/L	2.0	EPA 300.0			8/21/21 13:25	MBS	С
Total Dissolved Solids	124	С	mg/L	25	S2540C-11			8/24/21 11:16	BBD	С
Total Organic Carbon (TOC)	ND	С	mg/L	0.50	SM5310B-2011			8/25/21 00:35	PAG	F
Turbidity	0.12	С	NTU	0.10	SM2130B-2011			8/21/21 07:06	LXZ	С
METALS										
Calcium, Total	10.1	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:40	SRT	D1
Calcium, Dissolved	9.6	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:48	SRT	Ε
Iron, Total	ND	С	mg/L	0.030	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:40	SRT	D1
Iron, Dissolved	ND	С	mg/L	0.060	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:48	SRT	Ε
Magnesium, Total	6.0	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:40	SRT	D1
Magnesium, Dissolved	5.6	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:48	SRT	Е
Manganese, Total	0.055	С	mg/L	0.0025	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:40	SRT	D1
Manganese, Dissolved	0.052	С	mg/L	0.0050	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:48	SRT	Е
Potassium, Total	2.3	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:40	SRT	D1
Potassium, Dissolved	2.5	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:48	SRT	Е
Sodium, Total	14.3	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:40	SRT	D1
Sodium, Dissolved	14.2	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:48	SRT	Ε
FIELD PARAMETERS										
pH, Field (SM4500B)	6.65	С	pH_Units		Field			8/20/21 14:28	BGS	L
Specific Conductance, Field	222	С	umhos/cm	1	Field			8/20/21 14:28	BGS	L
Temperature	15.80	С	Deg. C		Field			8/20/21 14:28	BGS	L

Ms. Susan J Scherer Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3196416 3RD QTR 20213079 RIVER RD

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3196416001	1	3079RIVERRD	SM2320B-2011	Alkalinity, Total
The Total Alkalinity	is titrate	ed to a pH of 4.5 and reported as mg	CaCO3/L.	
2106/16001	2	2070DIVEDDD	C4E00UD 11	nЦ

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.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3196416 3RD QTR 20213079 RIVER RD

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3196416001	3079RIVERRD	ASTM D6919-09		
3196416001	3079RIVERRD	EPA 200.7	EPA ACID	
3196416001	3079RIVERRD	EPA 200.7	EPA TRMD	
3196416001	3079RIVERRD	EPA 300.0		
3196416001	3079RIVERRD	EPA 410.4		
3196416001	3079RIVERRD	EPA 420.4	420.4/9066	
3196416001	3079RIVERRD	Field		
3196416001	3079RIVERRD	S2540C-11		
3196416001	3079RIVERRD	S4500HB-11		
3196416001	3079RIVERRD	SM2130B-2011		
3196416001	3079RIVERRD	SM2320B-2011		
3196416001	3079RIVERRD	SM2510B-2011		
3196416001	3079RIVERRD	SM5310B-2011		
3196416001	3079RIVERRD	SW846 8260B		
3196416001	3079RIVERRD	SW846 9020B		

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ALL SHADED AREAS MUST BE COMPLETED BY THE CULTURY	REAS MUST BE CLER. INSTRUCTION AND TOX ANALYSES AND ANALYSES ANALYSES AND TOX	COMPLETED BY CONS ON THE BA	ed Metals: Ca, Fe, Mg, Mn,	ES	PL PL S00 ml None None	Cooler Temp: Them ID: (1)	- 4
Cortaines AG AN 125 ml	ANALYSES ANALYS	METHOD REQUE	T 203			Cooler Temp: Therm ID:	14-1-1-
### 1259 Harrisburg Pike, P.O. Box 4424 Lancaster, P.A 17604 E. Dan Brown F. (717) 735-0193 Name/#: LCSWMA - Quarterly Fire Co. Lancaster County Solid Waste MA Lancaster County Solid Waste MA X Normal-Standard TAT is 10-12 business days. Approved By: Approved By: Approved By: 3 ample Description/Location Date Approved By: 3 ample Description/Location Date Approved By: 3 ample Description/Location Bare Time O	ANALYSES/A HCD AND TOX	— — — — — — — — — — — — — — — — — — —	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			Cooler Temp: Therm ID:	ng Lap)
Lancaster, PA 17604 E. Dan Brown E. (717) 735-0193 Name/#: LCSWMA - Quarterly Fire Co. Lancaster County Solid Waste MA Lancaster County Solid Waste MA Rush-Subject to ALS approval and surcharges, quired: X Normal-Standard TAT is 10-12 business days. X Normal-S	ANALYSES/ ANALYS	METHOD REQUE	S		e e		2
I: Dan Brown I: (717) 735-0193 Name/#: LCSWMA - Quarterly Fire Co. Lancaster County Solid Waste MA X Normal-Standard TAT is 10-12 business days. X Normal-Standard TAT is 10-12 business days. X Normal-Standard TAT is 10-12 business days. Approved By: Approved By: Approved By: Approved By: Approved By: O E COUNTY SOLID Approved By: Approv	ANALYSESS AND TOX STREET Number of Corn TOX	METHOD REQUE	ed Metals: Ca, Fe, Mg, Mn,		-	No. of Coolers:	Initial
Name/#: LCSWMA - Quarterly Fire Co. Lancaster County Solid Waste MA Lancaster County Solid Waste MA Rush-Subject to ALS approval and surcharges, quired: Rush-Subject to ALS approval and surcharges, quired: Approved By: Approved By: Approved By: O E O O O O O O O O O O O O O O O O O	S S S S S S S S S S S S S S S S S S S	инз-и' сор EW	ed Metals: Ca, Fe, Mg, Mn,			Custody Seals Present?	
Name#: LCSWMA - Quarterly Fire Co. Lancaster County Solid Waste MA X Normal-Standard TAT is 10-12 business days. X Normal-Standard TAT is 10-12 business days. Approved By: Approved By: Approved By: Approved By: Approved By: Co ix in the lab report Date OB/20/21 1428 G DW 2 1 RIVERRD RIVERRD OB/20/21 1428 G DW 2 1	2 S S S S S S S S S S S S S S S S S S S	инз-и' сор Ем	ed Metals: Ca, Fe, Mg, Mr			(if present) Seals Intact?	
Lancaster County Solid Waste MA X Normal-Standard TAT is 10-12 business days. Rush-Subject to ALS approval and surcharges, quired: Approved By: Approved By: Approved By: Approved By: Approved By: Approved By: Co. Ex. (Sample Description/Location Date Time Co. Ex. (Sample Description/Location Date Time Co. Ex. (Sat Mill appear on the lab report) RIVERRD 08/20/21 1428 G DW 2 1	Enter Number of Sawade-8260 vocs	инз-и' сор EW	ed Metals: Ca, Fe, Mg			Received on Ice?	
X Normal-Standard TAT is 10-12 business days. Rush-Subject to ALS approval and surcharges, quired: Approved By: C E C E C C C C C C	2 S S S S S S S S S S S S S S S S S S S	инз-и' сор	ed Metals: Ca, Fe			COC/Labels Complete/Accurate?	
Approved by.	Enter Number of Sweete-8zeo	NH3-N' COD	eq Wet			Cornet Containers?	
ample Description/Location (as.l.will appear on the lab report) RIVERRD OS/20/21 1428 G DW 2 1	TOX Number of Co SW846-8	МНЗ-И, С	a	_		Cornect Preservation?	
ear on the lab region! Oste Oste Oste Oste Oste Oste Ost20/21 1428 G DW 2 1	Enter Number of Cor	NH EW	vios	-	SpC	Headspace/Volatiles?	
08/20/21 1428 G DW 2 1 2 3/3		ntainers Per Sample	e or Field Res	Me Below.	,dT	Courier/Tracking #: Sample/COC Comments	
\$ \frac{1}{2} \fra	\$ 3	3 × 1	÷	+	+		1
	100	- 5		Ξ			
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				1	+		
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0						─ □Composite_Sampling □Rental_ □Other:	ORental_Equipment
roject Comments: LOGGED BY(signature):		3113				Special Processing	State Samples
REVIEWED BY (signature):		बासर	301	1		CLP-like USACE C	Collected In
Relinquished By / Company Name Date Time Received By / Company Name	eived By / Company		9	Time	Delive	USACE Navy	Ž 2
There are	22		0000	2	Reportable to PADEP?	PADEP? Sample Disposal X	
9					Yes	X qer	NC
88				M	# QISMA	Special	
10					EDDS: Format Type-	-ad/,	



301 Fulling Mill Road Middletown, PA 17057 P) (717) 944-5541 F: (717) 944-1430

Condition of Sample Receipt Form

3196416

Client: Work (Language County Solid Wassy	Initials: Date:	£/2:/	21
L. Were airbilfs // tracking numbers present and recorded f	(OEDIO MICHERINI CONTROL DE MONTO E MO	je yes	NQ
2. Are Custody Seals on shipping comainers intent?	(O)	E YES	No
3. Are Custody Seals on sample containers intact?			NO
4. Is there a COC (Chain-of-Gustody) present?,		£3	NO
5. Are the COC and bottle labels complete, legible and in agreement?		NE5	NO
Sa. Does the COC contain sample locations?		YES	NO
50 Does the COS contain date and time of sangue collection for all samples?	711 (0)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)	YES	NO
5c. Boes the COC contain sample collectors name?	OF THE COST PROPERTY OF THE PARTY OF THE PAR	. YES	NO
5d Does the COC note the type(3) of preservation for all patilles!			Na
Se. Does the COC note the number of bottles submitted for each sample)			NO
3f. Does the COC note the type of sample composite or grab?			NO
5g. Does the COC note the matrix of the sample sit			NO
is. Are all aqueous samples requiring preservation preserved correctly."	No. A	SES	NO.
7. Were all samples placed in the proper containers for the requested analyses, with s	Wiffirt leaf and Jume 7, 1 July 1		NO.
8. Are all samples within holding times for the requested analyses?		-	No I
9. Were all sample containers received intact and headspace free when required? inot			No
10. Did we receive trip planks casolies only for mathods EPA 504, EPA 524 2 and 163	TEAL Har (N/2	YES	No 1
I.I. Were this samples received on Ice?		ŒS	NO
12. Were sample temperature I measured at 0.0-0.000		(TES	NO.
13. Are the samples DW matrix 7 if YES, fill out Reportable Drinking Water questions I	elo.:	YES	(NO
13a. Are the samples required for SOWA compliance reportings		YES	NO
13b. Old the client provide a SDWA PWS ID ≠?;	N.	YES	NO.
13c. Are all agueous unpreserved SONA samples pH 5-95	N/A	YES	NO.
13d. Did the client provide the SOWA sample location IO: Description?	NV	V YES	NO
13e. Did the chect provide the SOWA sample type (D, E. R. C. P. Siz			NO
Copier =	and a many of modern and high depotents and extended the processing in succession and consistency as a secondar	.,	
Temperature (°Cr)			
Thermomerar ID 5 46			
Radiological (µCri:			

COMMENTS (Required for all NO responses above and any sample non-conformance):

Final determination of correct preservation for analysis such as volatiles, muzichiology, and oil and greaser is made in the analytical department at the time of or following the analysis

Ras 1/20/2020





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

September 13, 2021

Mr. Daniel Brown Lancaster County Solid Waste Authority 1299 Hbg Pike, P.O. Box 4425 Lancaster, PA 17604

Certificate of Analysis

Project Name: CONTIGUOUS LANDOWNER- Workorder:

3076 RIVER RD

Purchase Order: PO-1000371

Vorkorder: **3196417**

Workorder ID: 3RD QTR 2021-3076 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 20, 2021.

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 Ms. Susan J 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 Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Ashley Gichuki , Ms. Jordan Gallagher , Landowner , Mr. Jeff Musser

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

Ms. Susan J Scherer
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3196417 3RD QTR 2021-3076 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3196417001	3076 River Road, Conestoga, PA	Water	8/20/2021 12:41	8/20/2021 17:25	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 3196417 3RD QTR 2021-3076 RIVER RD

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).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- 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.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
 PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- 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

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PROJECT SUMMARY

Workorder: 3196417 3RD QTR 2021-3076 RIVER RD

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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ANALYTICAL RESULTS

Workorder: 3196417 3RD QTR 2021-3076 RIVER RD

Lab ID: 3196417001 Date Collected: 8/20/2021 12:41 Matrix: Water

Sample ID: 3076 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

00000	ug/L ug/L ug/L ug/L	1.0 1.0 1.0	SW846 8260B SW846 8260B		_	0/07/04 04 00		
C C C	ug/L ug/L ug/L	1.0 1.0	SW846 8260B			0/07/04 04 00		
C C C	ug/L ug/L	1.0				8/27/21 04:38	PDK	J
C C	ug/L					8/27/21 04:38	PDK	J
С	•		SW846 8260B			8/27/21 04:38	PDK	J
		1.0	SW846 8260B			8/27/21 04:38	PDK	J
C	ug/L	1.0	SW846 8260B			8/27/21 04:38	PDK	J
0	ug/L	1.0	SW846 8260B			8/27/21 04:38	PDK	J
С	ug/L	1.0	SW846 8260B			8/27/21 04:38	PDK	J
С	ug/L	1.0	SW846 8260B			8/27/21 04:38	PDK	J
С	ug/L	1.0	SW846 8260B			8/27/21 04:38	PDK	J
С	ug/L	1.0	SW846 8260B			8/27/21 04:38	PDK	J
С	ug/L	1.0	SW846 8260B			8/27/21 04:38	PDK	J
С	ug/L	3.0	SW846 8260B			8/27/21 04:38	PDK	J
С	ug/L	1.0	SW846 8260B			8/27/21 04:38	PDK	J
С	ug/L	1.0	SW846 8260B			8/27/21 04:38	PDK	J
С	ug/L	1.0	SW846 8260B			8/27/21 04:38	PDK	J
С	ug/L	1.0	SW846 8260B			8/27/21 04:38	PDK	J
Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
С	%	62 - 133	SW846 8260B			8/27/21 04:38	PDK	J
С	%	79 - 114	SW846 8260B			8/27/21 04:38	PDK	J
С	%	78 - 116	SW846 8260B			8/27/21 04:38	PDK	J
С	%	76 - 127	SW846 8260B			8/27/21 04:38	PDK	J
С	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	С
C,1	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	Α
С	mg/L	0.100	ASTM D6919-09			9/3/21 03:01	ALK	В
С	mg/L	15	EPA 410.4			9/2/21 13:25	ALK	В
С	mg/L	2.0	EPA 300.0			8/21/21 08:59	MBS	С
С	mg/L	0.20	EPA 300.0			8/21/21 08:59	MBS	С
С	ug/L	20.0	SW846 9020B			8/26/21 16:13	PAG	1
С	mg/L	0.20	EPA 300.0			8/21/21 08:59	MBS	С
С	mg/L	0.20	EPA 300.0			8/21/21 08:59	MBS	С
C,2	pH_Units		S4500HB-11			8/30/21 23:52	MBS	С
C	mg/L	0.005	EPA 420.4	9/2/21 18:17	MXF	9/7/21 09:36	MXF	Н
С	umhos/cm	1	SM2510B-2011			9/3/21 13:00	MBS	С
	$ \begin{array}{c} \texttt{C} \\ \texttt$	C ug/L C wg/L C wg/L C wg/L C wg/L C % C % C % C % C mg/L	C ug/L 1.0 C ug/L 1.0 C ug/L 1.0 C ug/L 3.0 C ug/L 1.0 C ug/L 5 C % 62 - 133 C % 79 - 114 C % 78 - 116 C % 76 - 127 C mg/L 5 C mg/L 0.100 C mg/L 15 C mg/L 0.20	C ug/L 1.0 SW846 8260B C ug/L 1.0 SW846 8260B C ug/L 3.0 SW846 8260B C ug/L 3.0 SW846 8260B C ug/L 1.0 SW846 8260B C wg/L 1.0 SW846 8260B C wg/L 1.0 SW846 8260B C wg/L 1.0 SW846 8260B C % 62 - 133 SW846 8260B C % 79 - 114 SW846 8260B C % 78 - 116 SW846 8260B C % 76 - 127 SW846 8260B C mg/L 5 SM2320B-2011 C ng/L 5 SM2320B-2011 C mg/L 0.100 ASTM D6919-09 C mg/L 0.100 ASTM D6919-09 C mg/L 0.20 EPA 300.0 C ug/L 2.0 SW846 9020B C mg/L 0.20 EPA 300.0 C ug/L 0.20 EPA 300.0 C mg/L 0.20 EPA 300.0	C ug/L 1.0 SW846 8260B C ug/L 1.0 SW846 8260B C ug/L 1.0 SW846 8260B C ug/L 3.0 SW846 8260B C ug/L 1.0 SW846 8260B C wg/L 1.0 SW846 8260B C wg/L 1.0 SW846 8260B C wg/L 1.0 SW846 8260B C % 79 - 114 SW846 8260B C % 78 - 116 SW846 8260B C % 76 - 127 SW846 8260B C mg/L 5 SM2320B-2011 C mg/L 5 SM2320B-2011 C mg/L 0.100 ASTM D6919-09 C mg/L 15 EPA 410.4 C mg/L 2.0 EPA 300.0 C mg/L 0.20 EPA 300.0 C ug/L 20.0 SW846 9020B C mg/L 0.20 EPA 300.0	C ug/L 1.0 SW846 8260B C ug/L 1.0 SW846 8260B C ug/L 1.0 SW846 8260B C ug/L 3.0 SW846 8260B C ug/L 1.0 SW846 8260B C wg/L 1.0 SW846 8260B C wg/L 1.0 SW846 8260B C wg/L 1.0 SW846 8260B C % 79 - 114 SW846 8260B C % 78 - 116 SW846 8260B C % 76 - 127 SW846 8260B C % 76 - 127 SW846 8260B C mg/L 5 SM2320B-2011 C ng/L 5 SM2320B-2011 C mg/L 0.100 ASTM D6919-09 C mg/L 15 EPA 410.4 C mg/L 2.0 EPA 300.0 C mg/L 0.20 EPA 300.0 C ug/L 20.0 SW846 9020B C mg/L 0.20 EPA 300.0 C ug/L 0.20 EPA 300.0 C mg/L 0.20 EPA 300.0	C ug/L 1.0 SW846 8260B 8/27/21 04:38 C ug/L 1.0 SW846 8260B 8/27/21 04:38 C ug/L 1.0 SW846 8260B 8/27/21 04:38 C ug/L 3.0 SW846 8260B 8/27/21 04:38 C ug/L 1.0 SW846 8260B 8/27/21 04:38 Flag Units Limits Method Prepared By Analyzed C 0g/L 1.0 SW846 8260B 8/27/21 04:38 8/27/21 04:38 C % 62 - 133 SW846 8260B 8/27/21 04:38 8/27/21 04:38 C % 79 - 114 SW846 8260B 8/27/21 04:38 8/27/21 04:38 C % 78 - 116 SW846 8260B 8/27/21 04:38 8/27/21 04:38 C <t< td=""><td>C ug/L 1.0 SW846 8260B 8/27/21 04:38 PDK C ug/L 1.0 SW846 8260B 8/27/21 04:38 PDK C ug/L 1.0 SW846 8260B 8/27/21 04:38 PDK C ug/L 3.0 SW846 8260B 8/27/21 04:38 PDK C ug/L 1.0 SW846 8260B 8/27/21 04:38 PDK Flag Units Limits Method Prepared By Analyzed By C % 62 - 133 SW846 8260B 8/27/21 04:38 PDK C % 79 - 114 SW846 8260B 8/27/21 04:38 PDK C % 78 - 116 SW846 8260B 8/27/21 04:38 PDK C %</td></t<>	C ug/L 1.0 SW846 8260B 8/27/21 04:38 PDK C ug/L 1.0 SW846 8260B 8/27/21 04:38 PDK C ug/L 1.0 SW846 8260B 8/27/21 04:38 PDK C ug/L 3.0 SW846 8260B 8/27/21 04:38 PDK C ug/L 1.0 SW846 8260B 8/27/21 04:38 PDK Flag Units Limits Method Prepared By Analyzed By C % 62 - 133 SW846 8260B 8/27/21 04:38 PDK C % 79 - 114 SW846 8260B 8/27/21 04:38 PDK C % 78 - 116 SW846 8260B 8/27/21 04:38 PDK C %

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ANALYTICAL RESULTS

Workorder: 3196417 3RD QTR 2021-3076 RIVER RD

Lab ID: 3196417001 Date Collected: 8/20/2021 12:41 Matrix: Water

Sample ID: 3076 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

Sulfate 12.7 C mg/L 2.0 EPA 300.0 8/21/21 08:59 MBS C otal Dissolved Solids 208 C mg/L 25 S2540C-11 8/24/21 11:16 BBD C otal Organic Carbon (TOC) 0.64 C mg/L 0.50 SM5310B-2011 8/25/21 00:35 PAG F otal Organic Carbon (TOC) 0.64 C mg/L 0.50 SM5310B-2011 8/25/21 07:06 LXZ C otal Organic Carbon (TOC) 0.64 C mg/L 0.10 SM2130B-2011 8/25/21 07:06 LXZ C otal Organic Carbon (TOC) 0.64 C mg/L 0.10 SM2130B-2011 8/25/21 07:06 LXZ C otal Organic Carbon (TOC) 0.64 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 carbon (Total ND C mg/L 0.030 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.030 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 con, Dissolved ND C mg/L 0.060 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.060 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.050 EPA 200.7 8/27/21 11:28 AHI 8/24/21 09:44 SRT D1 organic Carbon (Total ND C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.25 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.25 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.25 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.25 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E organic Carbon (Total ND C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E											
Second Control Contr	Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
Secondary Corporation (TOC) 0.64 C mg/L 0.50 SM5310B-2011 8/25/21 00:35 PAG Fourbidity 0.11 C NTU 0.10 SM2130B-2011 8/21/21 07:06 LXZ C	Sulfate	12.7	С	mg/L	2.0	EPA 300.0			8/21/21 08:59	MBS	С
Turbidity 0.11 C NTU 0.10 SM2130B-2011 8/21/21 07:06 LXZ C METALS Calcium, Total 13.0 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Calcium, Dissolved 13.2 C mg/L 0.030 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Total ND C mg/L 0.060 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Total 8.6 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 8.4 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 8.4 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 8.4 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 8.4 C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 0.18 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Magnenese, Dissolved 0.18 C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Total 3.7 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 4.0 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 4.0 C mg/L 0.55 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 25.3 C mg/L 0.55 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 25.3 C mg/L 0.55 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 25.3 C mg/L 0.55 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 25.3 C mg/L 0.55 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 25.3 C mg/L 0.55 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 25.3 C mg/L 0.55 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 25.3 C mg/L 0.55 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 25.3 C mg/L 0.55 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 25.3 C mg/L 0.55 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dis	Total Dissolved Solids	208	С	mg/L	25	S2540C-11			8/24/21 11:16	BBD	С
### Total	Total Organic Carbon (TOC)	0.64	С	mg/L	0.50	SM5310B-2011			8/25/21 00:35	PAG	F
Calcium, Total 13.0 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Calcium, Dissolved 13.2 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Total ND C mg/L 0.060 EPA 200.7 8/27/21 11:28 AHI 8/24/21 09:44 SRT D1 Magnesium, Total 8.6 C mg/L 0.050 EPA 200.7 8/27/21 11:28 AHI 8/24/21 09:44 SRT D1 Magnesium, Dissolved 8.4 C mg/L 0.050 EPA 200.7 8/27/21 11:28 AHI 8/24/21 09:44 SRT D1 Magnesium, Dissolved 8.4 C mg/L 0.0050 EPA 200.7 8/27/21 11:28 AHI 8/24/21 09:44 SRT D1 Magnesium, Dissolved 8.4 C mg/L 0.0025 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Total 0.18 C mg/L 0.0050 EPA 200.7 8/27/21 11:28 AHI 8/24/21 09:44 SRT D1 Mangnese, Dissolved 0.18 C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 0.18 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 0.18 C mg/L 0.25 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.25 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Mangnese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 12:41 BGS L Mangnes	Turbidity	0.11	С	NTU	0.10	SM2130B-2011			8/21/21 07:06	LXZ	С
Calcium, Dissolved 13.2 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E ron, Total ND C mg/L 0.030 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 ron, Dissolved ND C mg/L 0.060 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 ron, Dissolved 8.6 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 ron, Dissolved 8.4 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E ron, Total 0.18 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 ron, Dissolved 0.18 C mg/L 0.0050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 ron, Dissolved 0.18 C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Total 3.7 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 rotassium, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 rotassium, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E rotassium, Dissolved 25.3 C mg/L	METALS										
ron, Total ND C mg/L 0.030 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 ron, Dissolved ND C mg/L 0.060 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Total 8.6 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Dissolved 8.4 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Total 0.18 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Manganese, Dissolved 0.18 C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.18 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 4.0 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Patassium, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 24.2 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E M	Calcium, Total	13.0	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:44	SRT	D1
ron, Dissolved ND C mg/L 0.060 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Magnesium, Total 8.6 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Magnesium, Dissolved 8.4 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Total 0.18 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Manganese, Dissolved 0.18 C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Potassium, Total 3.7 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Potassium, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Rodium, Total 24.2 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Rodium, Total 24.2 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Rodium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Rodium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, DISSOlved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RODIUM, DISSOlved 25.3 C mg/L 0.50 EPA 200.7 8/27/21	Calcium, Dissolved	13.2	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:52	SRT	Е
Magnesium, Total 8.6 C mg/L 0.050 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Magnesium, Dissolved 8.4 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Total 0.18 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Manganese, Dissolved 0.18 C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.18 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.18 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Manganese, Dissolved 0.00 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Manganese, Dissolved 0.00 C mg/L 0.050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.00 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Dissolved 0.00 C mg/L 0.	Iron, Total	ND	С	mg/L	0.030	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:44	SRT	D1
Magnesium, Dissolved 8.4 C mg/L 0.10 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Manganese, Total 0.18 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Manganese, Dissolved 0.18 C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Potassium, Total 3.7 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Potassium, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Potassium, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Potassium, Dissolved 24.2 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Rodium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RIELD PARAMETERS WH, Field (SM4500B) 6.28 C pH_Units Field 8/20/21 12:41 BGS L Receific Conductance, Field 325 C umhos/cm 1 Field 8/20/21 12:41 BGS L	Iron, Dissolved	ND	С	mg/L	0.060	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:52	SRT	Ε
Manganese, Total 0.18 C mg/L 0.0025 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Manganese, Dissolved 0.18 C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E PA 200.7 Set sium, Total 3.7 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 PA 200.7 Set sium, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Sedium, Total 24.2 C mg/L 0.25 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Sedium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Sedium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E SELD PARAMETERS SH, Field (SM4500B) 6.28 C pH_Units Field 8/20/21 12:41 BGS L Specific Conductance, Field 325 C umhos/cm 1 Field 8/20/21 12:41 BGS L	Magnesium, Total	8.6	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:44	SRT	D1
Manganese, Dissolved 0.18 C mg/L 0.0050 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Potassium, Total 3.7 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Potassium, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E PA 2001	Magnesium, Dissolved	8.4	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:52	SRT	Е
Potassium, Total 3.7 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Potassium, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Resolum, Total 24.2 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Resolum, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RESOLUM, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E RESOLUM, Field (SM4500B) 6.28 C pH_Units Field 8/20/21 12:41 BGS L Resolution Specific Conductance, Field 325 C umhos/cm 1 Field 8/20/21 12:41 BGS L	Manganese, Total	0.18	С	mg/L	0.0025	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:44	SRT	D1
Potassium, Dissolved 4.0 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E Sodium, Total 24.2 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Sodium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E FIELD PARAMETERS SH, Field (SM4500B) 6.28 C pH_Units Field 8/20/21 12:41 BGS L Specific Conductance, Field 325 C umhos/cm 1 Field 8/20/21 12:41 BGS L	Manganese, Dissolved	0.18	С	mg/L	0.0050	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:52	SRT	Е
Godium, Total 24.2 C mg/L 0.25 EPA 200.7 8/22/21 11:28 AHI 8/24/21 09:44 SRT D1 Godium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E FIELD PARAMETERS H, Field (SM4500B) 6.28 C pH_Units Field 8/20/21 12:41 BGS L Specific Conductance, Field 325 C umhos/cm 1 Field 8/20/21 12:41 BGS L	Potassium, Total	3.7	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:44	SRT	D1
Sodium, Dissolved 25.3 C mg/L 0.50 EPA 200.7 8/27/21 07:07 SRT 8/27/21 14:52 SRT E SIELD PARAMETERS BH, Field (SM4500B) 6.28 C pH_Units Field 8/20/21 12:41 BGS L Specific Conductance, Field 325 C umhos/cm 1 Field 8/20/21 12:41 BGS L	Potassium, Dissolved	4.0	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:52	SRT	Ε
FIELD PARAMETERS H, Field (SM4500B) 6.28 C pH_Units Field 8/20/21 12:41 BGS L Specific Conductance, Field 325 C umhos/cm 1 Field 8/20/21 12:41 BGS L	Sodium, Total	24.2	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:44	SRT	D1
H, Field (SM4500B) 6.28 C pH_Units Field 8/20/21 12:41 BGS L Specific Conductance, Field 325 C umhos/cm 1 Field 8/20/21 12:41 BGS L	Sodium, Dissolved	25.3	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:52	SRT	Ε
Specific Conductance, Field 325 C umhos/cm 1 Field 8/20/21 12:41 BGS L	FIELD PARAMETERS										
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emperature 15.60 C Deg. C Field 8/20/21 12:41 BGS L	Specific Conductance, Field	325	С	umhos/cm	1	Field			8/20/21 12:41	BGS	L
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Temperature	15.60	С	Deg. C		Field			8/20/21 12:41	BGS	L

Ms. Susan J Scherer Project Coordinator

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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

ANALYTICAL RESULTS

Workorder: 3196417 3RD QTR 2021-3076 RIVER RD

Lab ID	#	Sample ID	Analytical Method	Analyte
3196417001	1	3076 River Road, Conestoga, PA	SM2320B-2011	Alkalinity, Total
The Total Alkalinity	is titrate	ed to a pH of 4.5 and reported as mg (CaCO3/L.	
3196417001	2	3076 River Road, Conestoga, PA	S4500HB-11	pH

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.

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Report ID: 3196417 - 9/13/2021 Page 7 of 10





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

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3196417 3RD QTR 2021-3076 RIVER RD

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3196417001	3076 River Road, Conestoga, PA	ASTM D6919-09		
3196417001	3076 River Road, Conestoga, PA	EPA 200.7	EPA ACID	
3196417001	3076 River Road, Conestoga, PA	EPA 200.7	EPA TRMD	
3196417001	3076 River Road, Conestoga, PA	EPA 300.0		
3196417001	3076 River Road, Conestoga, PA	EPA 410.4		
3196417001	3076 River Road, Conestoga, PA	EPA 420.4	420.4/9066	
3196417001	3076 River Road, Conestoga, PA	Field		
3196417001	3076 River Road, Conestoga, PA	S2540C-11		
3196417001	3076 River Road, Conestoga, PA	S4500HB-11		
3196417001	3076 River Road, Conestoga, PA	SM2130B-2011		
3196417001	3076 River Road, Conestoga, PA	SM2320B-2011		
3196417001	3076 River Road, Conestoga, PA	SM2510B-2011		
3196417001	3076 River Road, Conestoga, PA	SM5310B-2011		
3196417001	3076 River Road, Conestoga, PA	SW846 8260B		
3196417001	3076 River Road, Conestoga, PA	SW846 9020B		

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Report ID: 3196417 - 9/13/2021 Page 8 of 10

ALL SOLID ALL	<	Sec. 1	60			문 당	AINC	CHAIN OF CUSTODY	STOD	XIS/	8	Generated by ALS		# 200 #		
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Second Post Comments Commen	301 Fulling Mill Road • Middlerown, PA 17057 • 7.	17.944 5541 + Fax. 717.9	44.3430			SAMPLE	R. INST	RUCTIO	NS ON T	HE BAC	¥		1			
Second	lient Name: LCSWMA - Brian Sensenich	ı	8	utainer Noe	AG	AN	AN	93	1	Ч	占	Ы	님	ď	F	-ab)
Figure Cornection Processing PA 1756 Processing Processing	ddress: 3076 Rover Road		8	ntaner Size	40 ml	125 ml	250 ml	40 ml	Ĺ	250 ml	125 mľ	125 ml	500 ml		Therm ID:	
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Control 678-2779 Control 678	contact: Brian Sensenich						ANA	LYSES/M	ETHOD R	EQUEST	03				Custody Seals Present?	-1
Comments Comments	hone#: (717) 676-5779										ή.				(if present) Seals Intact?	
Kindle Senseth Sense	roject Name/#: LCSWMA - Quarterly										Me	е	'±'t	Ī	Received on Ice?	
Numerity Support In Als approval and surchingses, approval approval and surchingses, approval	ill To: LCSWMA - Brian Sensenich										SW 's	K' N	os		COC/Labels Complete/Accurate?	
Comments Comment Com	×	0-12 business days roval and surcharge	. 8					soc			ls: Ca, Fe	Mg, Mn,	NO3" CI"	3	Cont. in Good Cond.? Correct Containers?	
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COCGED BY (signature): E. E. E. E. E. E. E.	SOUBLINES	-	+	-	7	-	7	62		-	-	-	-	-		
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301 Fulling Mill Road Middletown, PA 17057 P: (717) 944-5541 F- (717) 944-1430

3196417 of Sample Receipt Form

7. We call samples placed in the proper containers for the requested analyses with sufficient volume?		lals:	Date:	Jan V	
Tracking number 2. Are Custody, Seals on sample containers intest? 3. Are Custody, Seals on sample containers intest? 4. Is there a COC Chair-of-Custody) present? 5. Are this COC contain sample isolations? 5. Are this COC and bottle libels complete, legibits and in agreement? 5. Are this COC contain sample isolations? 5. Does the COC contain sample isolations? 5. Does the COC contain sample isolations? 5. Does the COC contain sample collectors name? 5. Does the COC contain sample collectors name? 5. Does the COC contain sample collectors name? 5. Does the COC note the type of sample contained for all bottles? 5. Does the COC note the type of sample contained for each sample? 5. Does the COC note the number of bottles submitted for each sample? 5. Does the COC note the number of bottles submitted for each sample? 5. Does the COC note the number of bottles submitted for each sample? 7. We neall samples on the country of the samples? 7. We neall samples placed in the proper containers for the requested analyses, with sufficient volume? 7. We neall samples containers received interest and headspace free when trequested analyses, with sufficient volume? 8. Are all samples containers received interest and headspace free when trequested and itself out Hgr. 8. Are sufficient provide and the adoption of the proper containers for the requested analyses, with sufficient volume? 8. Are sufficient provide and headspace free when trequested and itself out Hgr. 8. Are sufficient provide and the adoption of the requested and itself out Hgr. 8. Are sufficient provide and headspace free when trequested and itself out Hgr. 8. Are sufficient provide and headspace free when trequested and itself out Hgr. 8. Are sufficient provide and sufficient of sufficient provide and sufficient volume quantity is sufficient to sufficient the sufficient provide and sufficient provide a	LC 3NGCA	142	7	1416	1
2. Are Custody, Seals on sample containers insect?	1, Were airbills , tracking numbers present and recorded?,	· · · · · · · · · · · · · · · · · · ·	MONE	YES.	NO
3. Are Custody Seals on sample containers intact?	Tracking number				
\$ 1s there a COC inchamofic Custody) present?	2. Are Custody Seals on shipping containers intact?	0 00 000000000	NONE	YES	NO
5. Are this COC and bottle labels complete. legiblis and in agreement? 5. a Does the COC contain sample locations? 5. Does the COC contain date and time of sample collection for all samples? 5. Does the COC contain sample locations? 5. Does the COC contain sample collection sample? 5. Does the COC note the typeist of preservation for all bottles? 5. Does the COC note the typeist of preservation for all bottles? 5. Does the COC note the implies of bottles submitted for each sample? 5. Does the COC note the matrix of the sample composite or grab? 5. Does the COC note the type of sample composite or grab? 6. NO 5. Does the COC note the matrix of the sampless? 6. NO 7. We will sample and the matrix of the sampless? 7. We will sample placed in the proper containers for the requested analyses, with sufficient volume? 7. We will sample placed in the proper containers for the requested analyses, with sufficient volume? 8. Are all samples onto holding times for the requested analyses, with sufficient volume? 8. Are all samples onto incident times for the requested analyses, with sufficient volume? 8. Are all samples onto incident times for the requested analyses, with sufficient volume? 8. NO 8. Are all samples onto incident times for the requested analyses, with sufficient volume? 8. NO 8. Are all samples onto incident times for the requested analyses, with sufficient volume? 8. NO 8. NO 8. Are all samples onto incident times for the requested analyses, with sufficient volume? 8. NO 8	3. Are Custody Seals on sample containers intact?	·	BNCH	YES	NO 3
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11. Were the samples received on ice?	 We're all sample containers received intertrand headspace free when required? in ht bridges 	leallung, trazen lem.		YES	NO
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13 Are the samples DW matrix 2 N YES, fill out Reportable Drinking Water questions below: 13 Are the samples required for SDWA contribute reporting?. 13 Are the samples required for SDWA contribute reporting?. 13 Drid the client provide a SDWA PWS ID=?	I II. Were the samples received on ice?			YES	NO
Basiline Samples required for SDWA contribunce reporting?	12. Were simple temperatures measured at 0:0-6:6°C			CES-	NO
Thermometer ID 5 45	13. Are the samples DW matrix 218 YES, fill out Reportable Drinking Water questions below:			VES	(NO.
i 3c. Are all aqueous impreserved SDWA samples pH 5-07	33. Are the samples required for SOWA compliance reporting?.	(*****************************	NA	YES	NO
13d Did the client provide the SDWA sample Ideation IDi Description	T3b. Did the client provide a SDWA PWS ID=7	318-6(+(+4+58-8(++3+1)-1))	NVA	YES	NO
13e Did the client provide the SDWA saniplicitype (D. E. R. C. F. Si ^o	i.3c. Are all aqueous unpreserved SDWA samples pH 5-97	1-1 -)1-1 11-12-)213111(13-21-11(1-111	NA	YES	No
Cooler =	13d Did the chent provide the SOWA sample location ID Description?		NW	YES	NO
Cooler =			N A	YES	NO.
Thermiometer ID 5.75					
Thermometer ID: 5.75	Temperature (°Cr.				- 18
Rediciogical xpCtx					
	Rediciogical (µCi)				- 18

COMMENTS (Required for all NO responses above and any sample non-conformance):

Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

Rev. 1/20, 2020





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

September 13, 2021

Mr. Daniel Brown Lancaster County Solid Waste Authority 1299 Hbg Pike, P.O. Box 4425 Lancaster, PA 17604

Certificate of Analysis

Project Name: CONTIGUOUS LANDOWNER-

3052 RIVER RD

Purchase Order: PO-1000371

Workorder: **3196420**

Workorder ID: 3RD QTR 2021-3052 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 20, 2021.

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 Ms. Susan J 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.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Ashley Gichuki , Ms. Jordan Gallagher , Landowner , Mr. Jeff Musser

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

Ms. Susan J Scherer
Project Coordinator

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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

SAMPLE SUMMARY

Workorder: 3196420 3RD QTR 2021-3052 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3196420001	3052 River Road, Conestoga, PA	Water	8/20/2021 12:21	8/20/2021 17:25	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 3196420 3RD QTR 2021-3052 RIVER RD

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).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- 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.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
 PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- 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
- Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
- (S) Surrogate Compound
- NC Not Calculated
- * Result outside of QC limits

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PROJECT SUMMARY

Workorder: 3196420 3RD QTR 2021-3052 RIVER RD

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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ANALYTICAL RESULTS

Workorder: 3196420 3RD QTR 2021-3052 RIVER RD

Lab ID: 3196420001 Date Collected: 8/20/2021 12:21 Matrix: Water

Sample ID: 3052 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
VOLATILE ORGANICS										
Benzene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
1,2-Dibromoethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
1,1-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
1,2-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
1,1-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
cis-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
trans-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
Ethylbenzene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
Methylene Chloride	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
Tetrachloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
Toluene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
Total Xylenes	ND	С	ug/L	3.0	SW846 8260B			8/27/21 05:46	PDK	J
1,1,1-Trichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
Trichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
Trichlorofluoromethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
Vinyl Chloride	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:46	PDK	J
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1,2-Dichloroethane-d4 (S)	92.2	С	%	62 - 133	SW846 8260B			8/27/21 05:46	PDK	J
4-Bromofluorobenzene (S)	98.2	С	%	79 - 114	SW846 8260B			8/27/21 05:46	PDK	J
Dibromofluoromethane (S)	89	С	%	78 - 116	SW846 8260B			8/27/21 05:46	PDK	J
Toluene-d8 (S)	91.2	С	%	76 - 127	SW846 8260B			8/27/21 05:46	PDK	J
WET CHEMISTRY										
Alkalinity, Bicarbonate	7	С	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	С
Alkalinity, Total	7	C,1	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	Α
Ammonia-N	0.172	С	mg/L	0.100	ASTM D6919-09			9/3/21 00:59	ALK	В
Chemical Oxygen Demand (COD)	ND	С	mg/L	15	EPA 410.4			9/2/21 13:25	ALK	В
Chloride	22.0	С	mg/L	2.0	EPA 300.0			8/21/21 09:27	MBS	С
Fluoride	ND	С	mg/L	0.20	EPA 300.0			8/21/21 09:27	MBS	С
Halogen, Total Organic (TOX)	ND	С	ug/L	20.0	SW846 9020B			8/26/21 12:31	PAG	1
Nitrate-N	17.4	С	mg/L	0.20	EPA 300.0			8/21/21 09:27	MBS	С
Nitrite-N	ND	С	mg/L	0.20	EPA 300.0			8/21/21 09:27	MBS	С
рН	6.06	C,2, 3	pH_Units		S4500HB-11			8/30/21 23:52	MBS	С
Phenolics	ND	С	mg/L	0.005	EPA 420.4	9/2/21 18:17	MXF	9/7/21 09:36	MXF	Н
Specific Conductance	257	С	umhos/cm	1	SM2510B-2011			9/3/21 13:00	MBS	С

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ANALYTICAL RESULTS

Workorder: 3196420 3RD QTR 2021-3052 RIVER RD

Lab ID: 3196420001 Date Collected: 8/20/2021 12:21 Matrix: Water

Sample ID: 3052 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

							_		_	_
Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
Sulfate	2.5	С	mg/L	2.0	EPA 300.0			8/21/21 09:27	MBS	С
Total Dissolved Solids	190	С	mg/L	25	S2540C-11			8/24/21 13:03	BBD	С
Total Organic Carbon (TOC)	ND	С	mg/L	0.50	SM5310B-2011			8/24/21 18:50	PAG	F
Turbidity	0.73	С	NTU	0.10	SM2130B-2011			8/21/21 07:06	LXZ	С
METALS										
Calcium, Total	13.9	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:54	SRT	D1
Calcium, Dissolved	14.3	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:02	SRT	E
Iron, Total	ND	С	mg/L	0.030	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:54	SRT	D1
Iron, Dissolved	ND	С	mg/L	0.060	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:02	SRT	Ε
Magnesium, Total	9.3	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:54	SRT	D1
Magnesium, Dissolved	9.5	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:02	SRT	Ε
Manganese, Total	0.043	С	mg/L	0.0025	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:54	SRT	D1
Manganese, Dissolved	0.044	С	mg/L	0.0050	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:02	SRT	Ε
Potassium, Total	2.1	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:54	SRT	D1
Potassium, Dissolved	2.4	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:02	SRT	Ε
Sodium, Total	7.1	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:54	SRT	D1
Sodium, Dissolved	7.4	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:02	SRT	Ε
FIELD PARAMETERS										
pH, Field (SM4500B)	6.11	С	pH_Units		Field			8/20/21 12:21	BGS	L
Specific Conductance, Field	263	С	umhos/cm	1	Field			8/20/21 12:21	BGS	L
Temperature	15.40	С	Deg. C		Field			8/20/21 12:21	BGS	L

Ms. Susan J Scherer Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3196420 3RD QTR 2021-3052 RIVER RD

3196420001

Lab ID		#	Sample ID	Analytical Method	Analyte
319642	0001	1	3052 River Road, Conestoga, PA	SM2320B-2011	Alkalinity, Total
The Tot	al Alkalinity is	s titrate	d to a pH of 4.5 and reported as mg (CaCO3/L.	
319642	0001	2	3052 River Road, Conestoga, PA	S4500HB-11	pH
				rs identified as "analyze immediately"	

рΗ

S4500HB-11

The difference between duplicate measurements of this sample was greater than 0.1 pH units for the pH analysis

3052 River Road, Conestoga, PA

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3196420 3RD QTR 2021-3052 RIVER RD

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3196420001	3052 River Road, Conestoga, PA	ASTM D6919-09		
3196420001	3052 River Road, Conestoga, PA	EPA 200.7	EPA ACID	
3196420001	3052 River Road, Conestoga, PA	EPA 200.7	EPA TRMD	
3196420001	3052 River Road, Conestoga, PA	EPA 300.0		
3196420001	3052 River Road, Conestoga, PA	EPA 410.4		
3196420001	3052 River Road, Conestoga, PA	EPA 420.4	420.4/9066	
3196420001	3052 River Road, Conestoga, PA	Field		
3196420001	3052 River Road, Conestoga, PA	S2540C-11		
3196420001	3052 River Road, Conestoga, PA	S4500HB-11		
3196420001	3052 River Road, Conestoga, PA	SM2130B-2011		
3196420001	3052 River Road, Conestoga, PA	SM2320B-2011		
3196420001	3052 River Road, Conestoga, PA	SM2510B-2011		
3196420001	3052 River Road, Conestoga, PA	SM5310B-2011		
3196420001	3052 River Road, Conestoga, PA	SW846 8260B		
3196420001	3052 River Road, Conestoga, PA	SW846 9020B		

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ALL SH. Container AG Consent 40 ml Frestmastve HCI	DED AREA	ADED AREAS MUST BE COMPLETED BY THE CLIENT I	COMPLET	ED BY THE	CLIENT /		ALS (3196420	-
FT 344 5541 - FRG. 71 344,1430 AG									
Contains 40 ml 125 ml 125 ml 125 ml MA MA	AN	AN CG	-	2	P. P.	a.	Ы		ng Lab)
MA HCI Pusiness days.	-	250 ml 40 ml	1	250 ml 1;	125 ml 125 ml	ml 500 ml	500 ml Cc	Cooler Temp: Therm ID:	le
Contact: Gerald E. Miller, Sr. Phone#: (717) 872-5117 Project Name/#: LCSWMA - Quarterly Bill To: Lancaster County Solid Waste MA TAT X Normal-Standard TAT is 10-12 business days.	-	H2SÓ4 HCI	1	HZSO4 H	HNO3 HNO3	3 None	None No.		Initial
Phone#: (717) 872-5117 Project Name/#: LCSWMA - Quarterly Bill To: Lancaster County Solid Waste MA TAT		ANALYSES	S/METHOD !	ANALYSES/METHOD REQUESTED				Custody Seals Present?	
Project Name/#: LCSWMA - Quarterly Bill To: Lancaster County Solid Waste MA TAT X Normal-Standard TAT is 10-12 business days.					-			(if present) Seals Intact?	
Bill To: Lancaster County Solid Waste MA TAT X Normal-Standard TAT is 10-12 business days.				WY C		-		Received on Ice?	
×		-		W .				COCILabels Complete/Accurate?	
Rush-Subject to ALS approval and surcharges. Date Required: Approved By:		VOCs		i etals: Ca, Fe	erans, Oa, r.)S' NO3' CI'	503	Cont. in Good Cond.? Correct Containers? Correct Sample Volumes?	
		0978-		COD		S' NC	ту, но	Correct Preservation?	
) x	НС		3		6V		tinils	Headspace/Volatiles?	
Sample Description/Location Sample & E		은 중 폰 폴 종 폴 Enter Number of Containers Per Sample or Field Results Below	L. ontainers Per	E E	S 文 을	Hď .		Courier/Tracking #: Sample/COC Comments	
1 3052RIVERRD 08/20/21 1221 G DW 2 1	1	2 1	×	1	+	4	÷		
2		\$	1.1						
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4									
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9									
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on on								ALS Field Services: DPickup	Pickup CLabor
10		4							
Project Comments:				nya.	344	sa	Standard	Special Processing	State Samples
REVIEWED BY(signature):				nec.	জণ	sts ldsre	CLP-like	USACE	Collected in
Received By / Company Name Date Time Received A Co. 10 10 10 10 10 10 10 10 10 10 10 10 10	Received	Received By / Company Name	ny Name	0/3	Date Time	-13	USACE	Navy	ž 2
William St. Channel		3.2		777	7		Reportable to PADEP?	EP? Sample Disposal X	A A
9						Yes		rap X	2
				H.		# QISMA	非	Special	
9 EDDS: Format Type-						EDDS	EDDS: Format Type-		



301 Fulling Mill Road Middletown, PA 17057 P: (717) 944-5541 F: (717) 914-1430

Condition of Sample Receipt Form

3196420

Client: Wor LC 1991114	Lancaster County Solid Waste Authority	Initials:	Date:	12/	Ē)
i. Were airbills . Fracking numbers present and	rccoroco	11	MONE	YES	NO
 Are Custody Seals on shipping containers into 				YES	NO
3. Are Custody Seals on sample containers intec				YES	80
4. Is there a COC (Chain-of-Custody) present?				YES	NO
Are the COC and bottle labels complete, legis				YES	NO
5a. Does the COC contain sample Incarrans?.				YES	NO
5b. Does the COC contain date and time of s				VES	NO
Sc Does the COC contain sample collectors				YES	NO
5d. Does the COC note the type (4) of preserv				YES	NO
Se. Does the COC note the number of Bottle				YES	NO.
\$6, Do43 the COC note the type of sample, or				YES	NO
5g. Does the COC note the matrix of the san				YEST	CM
 Are all aqueous somples requiring preservant 				SES"	No.
 Were all samples placed in the proper contact 				(ES	No.
S. Are all samples within holding times for the o	equested analyses?	······································	**********	SES	N3 (
9. Were all sample contamers received intact on	d headspace free when required?	not broken, waking frozen, etc.)		\$1.5	NO.
10. Did we receive trip blanks i applies only for				YES.	No.
II. Ware the samples received onlice?		* ************************************		GES	NO
12. Were sample temperatures measured at 0.0				CES.	NO
13. Are the samples DW matrix 2 IT YES. I'll our R	Reportable Drinking Water question	ins below		YES	(NO
113a. Are the samples required for SDWA com	rollance reporting?.	S - 1 to 1 fm - index - save second state (- on a second	NA	YES.	NO
13b. Did the client provide a SDWA PWS ID=7				YES	NO
13c. Are all aqueous unpreserved SDWA sam			1	YES	No
13d. Did the client provide the SDWA sample			NA	YES	NO
138 Did the client provide the SDWA sample			M V	YES	NO
Capiel +	er en	A STATE OF THE STA			
Temperature (*C)					
	- -		_		
Thermometer ID 5 15					
Radiological (µCii)					

COMMENTS (Required for all NO responses above and any sample non-conformance):

¹ Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis.

R=+ 1/20/2020





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September 13, 2021

Mr. Daniel Brown Lancaster County Solid Waste Authority 1299 Hbg Pike, P.O. Box 4425 Lancaster, PA 17604

Certificate of Analysis

3196421

Project Name: CONTIGUOUS LANDOWNER- Workorder:

3044 RIVER RD

Purchase Order: PO-1000371 Workorder ID: 3RD QTR 2021-3044 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 20, 2021.

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 Ms. Susan J 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.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Ashley Gichuki, Ms. Jordan Gallagher, Mr. Jeff Musser

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

Ms. Susan J Scherer Project Coordinator

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SAMPLE SUMMARY

Workorder: 3196421 3RD QTR 2021-3044 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3196421001	3044 River Road, Conestoga, PA	Water	8/20/2021 12:13	8/20/2021 17:25	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 3196421 3RD QTR 2021-3044 RIVER RD

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).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- 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.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
 PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- 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

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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

PROJECT SUMMARY

Workorder: 3196421 3RD QTR 2021-3044 RIVER RD

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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Report ID: 3196421 - 9/13/2021 Page 4 of 10





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

ANALYTICAL RESULTS

Workorder: 3196421 3RD QTR 2021-3044 RIVER RD

Lab ID: 3196421001 Date Collected: 8/20/2021 12:13 Matrix: Water

Sample ID: 3044 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
VOLATILE ORGANICS										
Benzene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
1,2-Dibromoethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
1,1-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
1,2-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
1,1-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
cis-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
trans-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
Ethylbenzene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
Methylene Chloride	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
Tetrachloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
Toluene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
Total Xylenes	ND	С	ug/L	3.0	SW846 8260B			8/27/21 06:08	PDK	J
1,1,1-Trichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
Trichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
Trichlorofluoromethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
Vinyl Chloride	ND	С	ug/L	1.0	SW846 8260B			8/27/21 06:08	PDK	J
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1,2-Dichloroethane-d4 (S)	92.3	С	%	62 - 133	SW846 8260B			8/27/21 06:08	PDK	J
4-Bromofluorobenzene (S)	98.2	С	%	79 - 114	SW846 8260B			8/27/21 06:08	PDK	J
Dibromofluoromethane (S)	90.4	С	%	78 - 116	SW846 8260B			8/27/21 06:08	PDK	J
Toluene-d8 (S)	89.1	С	%	76 - 127	SW846 8260B			8/27/21 06:08	PDK	J
WET CHEMISTRY										
Alkalinity, Bicarbonate	11	С	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	С
Alkalinity, Total	11	C,1	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	Α
Ammonia-N	ND	С	mg/L	0.100	ASTM D6919-09			9/3/21 02:48	ALK	В
Chemical Oxygen Demand (COD)	ND	С	mg/L	15	EPA 410.4			9/2/21 13:25	ALK	В
Chloride	22.1	С	mg/L	2.0	EPA 300.0			8/21/21 09:13	MBS	С
Fluoride	ND	С	mg/L	0.20	EPA 300.0			8/21/21 09:13	MBS	С
Halogen, Total Organic (TOX)	ND	С	ug/L	20.0	SW846 9020B			8/26/21 12:59	PAG	1
Nitrate-N	18.7	С	mg/L	0.20	EPA 300.0			8/21/21 09:13	MBS	С
Nitrite-N	ND	С	mg/L	0.20	EPA 300.0			8/21/21 09:13	MBS	С
рН	6.23	C,2	pH_Units		S4500HB-11			8/30/21 23:52	MBS	С
Phenolics	ND	C	mg/L	0.005	EPA 420.4	9/2/21 18:17	MXF	9/7/21 09:36	MXF	Н
Specific Conductance	266	С	umhos/cm	1	SM2510B-2011			9/3/21 13:00	MBS	С
		_	•		-	<i>5,2,2</i> 1 10.11	141271			

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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

ANALYTICAL RESULTS

Workorder: 3196421 3RD QTR 2021-3044 RIVER RD

Lab ID: 3196421001 Date Collected: 8/20/2021 12:13 Matrix: Water

Sample ID: 3044 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

	, 									
Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
Sulfate	ND	С	mg/L	2.0	EPA 300.0			8/21/21 09:13	MBS	С
Total Dissolved Solids	192	С	mg/L	25	S2540C-11			8/24/21 13:03	BBD	С
Total Organic Carbon (TOC)	ND	С	mg/L	0.50	SM5310B-2011			8/25/21 21:05	PAG	F
Turbidity	ND	С	NTU	0.10	SM2130B-2011			8/21/21 07:06	LXZ	С
METALS										
Calcium, Total	11.2	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:57	SRT	D1
Calcium, Dissolved	13.3	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:12	SRT	Ε
Iron, Total	ND	С	mg/L	0.030	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:57	SRT	D1
Iron, Dissolved	ND	С	mg/L	0.060	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:12	SRT	Ε
Magnesium, Total	8.8	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:57	SRT	D1
Magnesium, Dissolved	10.3	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:12	SRT	Е
Manganese, Total	0.018	С	mg/L	0.0025	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:57	SRT	D1
Manganese, Dissolved	0.021	С	mg/L	0.0050	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:12	SRT	Е
Potassium, Total	1.5	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:57	SRT	D1
Potassium, Dissolved	2.1	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:12	SRT	Е
Sodium, Total	7.2	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:57	SRT	D1
Sodium, Dissolved	8.8	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 15:12	SRT	Ε
FIELD PARAMETERS										
pH, Field (SM4500B)	6.19	С	pH_Units		Field			8/20/21 12:13	BGS	L
Specific Conductance, Field	271	С	umhos/cm	1	Field			8/20/21 12:13	BGS	L
Temperature	15.70	С	Deg. C		Field			8/20/21 12:13	BGS	L

Ms. Susan J Scherer Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3196421 3RD QTR 2021-3044 RIVER RD

PARAMETER QUAL	IFIERS
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Lab ID	#	Sample ID	Analytical Method	Analyte
3196421001	1	3044 River Road, Conestoga, PA	SM2320B-2011	Alkalinity, Total
The Total Alkalinity	is titrate	ed to a pH of 4.5 and reported as mg (CaCO3/L.	
3196421001	2	3044 River Road, Conestoga, PA	S4500HB-11	рН

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.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3196421 3RD QTR 2021-3044 RIVER RD

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3196421001	3044 River Road, Conestoga, PA	ASTM D6919-09		
3196421001	3044 River Road, Conestoga, PA	EPA 200.7	EPA ACID	
3196421001	3044 River Road, Conestoga, PA	EPA 200.7	EPA TRMD	
3196421001	3044 River Road, Conestoga, PA	EPA 300.0		
3196421001	3044 River Road, Conestoga, PA	EPA 410.4		
3196421001	3044 River Road, Conestoga, PA	EPA 420.4	420.4/9066	
3196421001	3044 River Road, Conestoga, PA	Field		
3196421001	3044 River Road, Conestoga, PA	S2540C-11		
3196421001	3044 River Road, Conestoga, PA	S4500HB-11		
3196421001	3044 River Road, Conestoga, PA	SM2130B-2011		
3196421001	3044 River Road, Conestoga, PA	SM2320B-2011		
3196421001	3044 River Road, Conestoga, PA	SM2510B-2011		
3196421001	3044 River Road, Conestoga, PA	SM5310B-2011		
3196421001	3044 River Road, Conestoga, PA	SW846 8260B		
3196421001	3044 River Road, Conestoga, PA	SW846 9020B		

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ALS) Enuiranmental				REQ	REQUEST FOR ANALYSIS	FOR	ANAL	YSIS	l	centerated by Aco		33≣	3196421	ъ
in reservation + selections, is FTOT + there is to state - no hitestation - handconson- 301 Failing Mill Road + Middletown, PA 17057 + 717 944 8541 + Fax: 717.544, 430	FBK: 717.944.54		ALL SH/	7	DED AREAS MUST BE COMPLETED BY THE SACH	ST BE C	OMPLET NS ON T	ED BY TI 'HE BAC	부	<u> </u>		ALS (-
Client Name: Lancaster County Solid Waste MA		Contaner	AG	AN	Ä	93	1	급	굽	교	4	PL inve	weeps monnenon tombieted by Receiving Lab	cerving Lab)
Address: 1299 Harrisburg Pike, P.O. Box 4424		Contaner	40 ml	125 ml	250 ml	40 ml	1	250 ml	125 ml	125 ml	500 ml	500 ml Coole	Cooler Temp: Therm ID:	273
Lancaster, PA 17604		Preservative	무	H2S04	H2SO4	F	1.	H2SO4	HNO3	HNO3	None	None No. of		i Initial
Contact: Dan Brown					ANA	LYSES/N	ETHOD R	ANALYSES/METHOD REQUESTED	O.				dy Seals Present?	
Phone#: (717) 735-0193									4				(if present) Seals Intact?	
Project Name#: LCSW/MA - Quarterly Bill To: Lancaster County Solid Waste MA		_							nM , 9M		O¢' E'	000	Received on Ice?	
TAT Normal-Standard TAT is 10-12 business days. Date Required: Approved By:	ess days. urcharges. 3y:) AOC®			etals: Ca, Fe, I	e, Mg, Mn, K,	05' NO3' CI' 8		Cont. in Good Cond.? Correct Containers? Correct Sample Volumes?	
Email?	1		1	ŀ		928-95		N, COL		-		oity, H	Correct Preservation?	
Sample	Time	O or C	201	10-0	TOX SW8 Futer Number of Containers Per Sample or Flield Results Relove	8WS	MH Hers	SHN Sales	Fig. Disso		T ,Hq S ,dT		CourierTracking #: Sample/COC Commente	
0	-	G DW	2	*	2	h	×	-	-	+	-	,		
2		-				2	1		11					
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9														
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6								T				ALS	П	□Labor
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Project Comments:	LOGGED BY(signature):	(signature):					31/0		351		S	Standard	Special Processing Star	State Samples
	REVIEWED BY(signature):	3Y(signature	1				3145		The .		ata Hable]CLP-like	USACE Co	Collected In
1 Relinquished By / Company Name	Date A-21	Time 123	N	Receiv	Received By / Company Name	ompany	Vame	3	Date (20/2)	Time /725	Delive	USACE	Navy	ž Z
3			4 0								Reporta	Reportable to PADEP?	Sample Disposal X	N P
7			8							a	# QISMA		Special	
6			10								EDDS: F	EDDS: Format Type-		
* G=Grab; C=Composite	"Matrix - Al-Air; DW-Drinking Water; GW-Groundwater; OI=Oil: OL-Oiher Liquid; SL=Sludge; SO=Soil; WP-Wje; WW-Westewater	atrix - AI=A	ir: DW=D	rinking Wat	ar: GW=GR	retelyphorus	0.00-10	- Other I	2-13 W	Today Of	-Cost- MP	-10/10- 10/10/-10/	Anthonistas.	



301 Fulling Mill Road Middletown, PA 17057 P: (717) 944-5541 F: (717) 944-1430

"ion of Sample Receipt Form

3196421

Client: Wor	Lancaster County Solid Waste Authority	Initials:	Date:	135/2	7
Were sirbills tracking numbers present and			NONE	VES	NO
Trai	sking munthér				
2. Are Custody Seals on shipping contamers into	Charles and a second	0.101-1001-0	NONE	YES	NO.
3. Are Custody Seals on sample containers intact	7		AND WE	YES	100
4. Is there a COC (Chain-of-Custody) present?			HOMOTORIO BOLLET	YES	NO
5. Are the COC and bottle labels complete legici	e and in agreement?			YES	NO
5a. Does the COC contain sample locations?	() () () () () () () () () ()		186 (186) (16 -6	YES	NO 5
5b Does the COC contain date and time of sa	imple collection for all samples?	- X- X- XX XX XX X XX XX	- 1 10 0 1 046	YES	NO
Sc. Days the COC contain sample collectors n	9f787			YES	No
3d Does the COC note the type(4) of preserv	ands for all hottless,	**************************************		TES	NO
Se. Does the COC note the number of botdes	submitted for each sample?		MARC POLYMON DOL	YES	NO
5f. Does the COC note the type of sample, co.	digasta or grafit	Managarah (e-ac-e)-marekasakan	s reserve become religious.	YES	CM
Sg. Does the COC note the matrix of the sam	ple s)?	reference to the contract of t		YES	No
6. Are all aqueous samples requiring preservation	n dress yed consectly?		. NA	YES.	NO.
7. Were all samples placed in the proper contains	ats for the requested analyses, w	th sufficient rollina?	10721 110101011111	(ES	NO.
S. Are all samples with a holding times for the re	suesced and analysis on many	11 11 111	NAMES OF TAXABLE PARTY.	SES.	NO.
9. Were all sample containers received intact and	treadspace free when required?	(not becker leaking, frozen, o	té i	YES	NO.
10. Did we receive trip blanks capplies only for u	nethods EPA 50% ERA 924 2 and	163 TE 4LL Hg (*)	(N. 5	YES	NO.
11. Were the samples received on ice?	***************************************	DESCRIPTION HAS SHOWN		GES	NO.
12: Were sample temperatures measured at 0.0-1	5.0 °C			(TES.	NO
1.3. Are the samples DW matrix? If YES, fill out Re	eportable Drinking Water question	ns-below		YES	(NO
13a. Are the samples required for SDWA com-	nliance renorting?		MA.	YES	NO
13b. Did the client provide a SDMA PWS (D=?.		rietali (a laja considera es acomo senso	N/A	YES	NO
13c. Are all aqueous unpreserved SDWA sang	s(85 pH 5-97,	SCHOOLSE LEE THE SECTION OF SECTION	NA.	YES	NO
13d. Did the client provide the SDWA sample	Location (Cr. Description"		IN/A	YES	80
13e Did the client provide the SDWA sample	type (D. É. B. Č. F. S.)***********************************	· · · · · · · · · · · · · · · · · · ·	N.	YES	NO
Copler =					
Temperature PCX	-				- 9
Thermometer ID. 5 +13	عالما المادة				
Rediological (µCit:					

COMMENTS (Required for all NO responses above and any sample non-conformance):

¹Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and groase its made in the analytical department at the time of or following the analysis

Rev 1/20/2020





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

September 13, 2021

Mr. Daniel Brown Lancaster County Solid Waste Authority 1299 Hbg Pike, P.O. Box 4425 Lancaster, PA 17604

Certificate of Analysis

Project Name: FREY FARM Workorder: 3196418

Purchase Order: PO-1000371 Workorder ID: 3RD QTR 20213060 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 20, 2021.

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 Ms. Susan J 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 Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Ashley Gichuki, Ms. Jordan Gallagher, Mr. Jeff Musser

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

Ms. Susan J Scherer Project Coordinator

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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

SAMPLE SUMMARY

Workorder: 3196418 3RD QTR 20213060 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3196418001	3060RIVERRD	Water	8/20/2021 12:32	8/20/2021 17:25	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 3196418 3RD QTR 20213060 RIVER RD

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).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- 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".
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- -- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
 PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- 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

ALS Environmental Laboratory Locations Across North America

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Report ID: 3196418 - 9/13/2021 Page 3 of 10





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

PROJECT SUMMARY

Workorder: 3196418 3RD QTR 20213060 RIVER RD

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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Report ID: 3196418 - 9/13/2021 Page 4 of 10





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

ANALYTICAL RESULTS

Workorder: 3196418 3RD QTR 20213060 RIVER RD

Lab ID: 3196418001 Date Collected: 8/20/2021 12:32 Matrix: Water

Sample ID: 3060RIVERRD Date Received: 8/20/2021 17:25

	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
VOLATILE ORGANICS										
Benzene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
1,2-Dibromoethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
1,1-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
1,2-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
1,1-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
cis-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
trans-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
Ethylbenzene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
Methylene Chloride	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
Tetrachloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
Toluene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
Total Xylenes	ND	С	ug/L	3.0	SW846 8260B			8/27/21 05:00	PDK	J
1,1,1-Trichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
Trichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
Trichlorofluoromethane	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
Vinyl Chloride	ND	С	ug/L	1.0	SW846 8260B			8/27/21 05:00	PDK	J
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1,2-Dichloroethane-d4 (S)	94	С	%	62 - 133	SW846 8260B			8/27/21 05:00	PDK	J
4-Bromofluorobenzene (S)	99.8	С	%	79 - 114	SW846 8260B			8/27/21 05:00	PDK	J
Dibromofluoromethane (S)	91	С	%	78 - 116	SW846 8260B			8/27/21 05:00	PDK	J
Toluene-d8 (S)	90.4	С	%	76 - 127	SW846 8260B			8/27/21 05:00	PDK	J
WET CHEMISTRY										
Alkalinity, Bicarbonate	ND	С	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	С
Alkalinity, Total	ND	C,1	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	Α
Ammonia-N	0.119	С	mg/L	0.100	ASTM D6919-09			9/2/21 16:09	ALK	В
Chemical Oxygen Demand (COD)	ND	С	mg/L	15	EPA 410.4			9/2/21 13:25	ALK	В
Chloride	21.6	С	mg/L	2.0	EPA 300.0			8/21/21 09:54	MBS	С
Fluoride	ND	С	mg/L	0.20	EPA 300.0			8/21/21 09:54	MBS	С
Halogen, Total Organic (TOX)	ND	С	ug/L	20.0	SW846 9020B			8/26/21 11:31	PAG	1
Nitrate-N	16.2	С	mg/L	0.20	EPA 300.0			8/21/21 09:54	MBS	С
Nitrite-N	0.38	С	mg/L	0.20	EPA 300.0			8/21/21 09:54	MBS	С
рН	5.68	C,2	pH_Units		S4500HB-11			8/30/21 23:52	MBS	С
Phenolics	ND	Ċ	mg/L	0.005	EPA 420.4	9/2/21 18:17	MXF	9/7/21 09:36	MXF	Н
Specific Conductance	258	C	umhos/cm	1	SM2510B-2011			9/3/21 13:00	MBS	С

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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

ANALYTICAL RESULTS

Workorder: 3196418 3RD QTR 20213060 RIVER RD

Lab ID: 3196418001 Date Collected: 8/20/2021 12:32 Matrix: Water

Sample ID: **3060RIVERRD** Date Received: 8/20/2021 17:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
Sulfate	9.3	С	mg/L	2.0	EPA 300.0			8/21/21 09:54	MBS	С
Total Dissolved Solids	174	С	mg/L	25	S2540C-11			8/24/21 11:16	BBD	С
Total Organic Carbon (TOC)	ND	С	mg/L	0.50	SM5310B-2011			8/25/21 00:35	PAG	F
Turbidity	0.14	С	NTU	0.10	SM2130B-2011			8/21/21 07:06	LXZ	С
METALS										
Calcium, Total	11.2	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:47	SRT	D1
Calcium, Dissolved	11.1	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:55	SRT	Ε
Iron, Total	0.068	С	mg/L	0.030	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:47	SRT	D1
Iron, Dissolved	ND	С	mg/L	0.060	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:55	SRT	Ε
Magnesium, Total	11.5	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:47	SRT	D1
Magnesium, Dissolved	11.2	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:55	SRT	Е
Manganese, Total	0.12	С	mg/L	0.0025	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:47	SRT	D1
Manganese, Dissolved	0.12	С	mg/L	0.0050	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:55	SRT	Е
Potassium, Total	2.7	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:47	SRT	D1
Potassium, Dissolved	2.9	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:55	SRT	Е
Sodium, Total	8.3	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:47	SRT	D1
Sodium, Dissolved	8.5	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:55	SRT	Е
FIELD PARAMETERS										
pH, Field (SM4500B)	5.72	С	pH_Units		Field			8/20/21 12:32	BGS	L
Specific Conductance, Field	251	С	umhos/cm	1	Field			8/20/21 12:32	BGS	L
Temperature	15.10	С	Deg. C		Field			8/20/21 12:32	BGS	L

Ms. Susan J Scherer Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3196418 3RD QTR 20213060 RIVER RD

PARAMETER	QUALIFIERS
-----------	------------

Lab ID	#	Sample ID	Analytical Method	Analyte
3196418001	1	3060RIVERRD	SM2320B-2011	Alkalinity, Total
The Total Alkalinit	y is titrate	ed to a pH of 4.5 and reported as mg	CaCO3/L.	
3196418001	2	3060RIVERRD	S4500HB-11	рН

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.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3196418 3RD QTR 20213060 RIVER RD

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3196418001	3060RIVERRD	ASTM D6919-09		
3196418001	3060RIVERRD	EPA 200.7	EPA ACID	
3196418001	3060RIVERRD	EPA 200.7	EPA TRMD	
3196418001	3060RIVERRD	EPA 300.0		
3196418001	3060RIVERRD	EPA 410.4		
3196418001	3060RIVERRD	EPA 420.4	420.4/9066	
3196418001	3060RIVERRD	Field		
3196418001	3060RIVERRD	S2540C-11		
3196418001	3060RIVERRD	S4500HB-11		
3196418001	3060RIVERRD	SM2130B-2011		
3196418001	3060RIVERRD	SM2320B-2011		
3196418001	3060RIVERRD	SM2510B-2011		
3196418001	3060RIVERRD	SM5310B-2011		
3196418001	3060RIVERRD	SW846 8260B		
3196418001	3060RIVERRD	SW846 9020B		

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All continues and continues above All continues All continues above All continue	ALS Environmental		9	İ		REQ	REQUEST FOR ANALYSIS	FOR /	NAL	SIS				1		o d
The contract County Solid Wissis MA	Historical and Alberton (1999) - Steep 24 Market in Application (1998) - State Fullion Mill Road - Middlesone, Ph. 17057 - 7 (178	944 5541 • Fax	717 944 143	-		SAMPLE	R. INST	RUCTIO	MPLEI	ED BY II	7. TE	-			19641	-
The content of the	Client Name: Lancaster County Solid Waste	- MA			AG	AN	AN	93	j	占		చ	చ	급		ing Lab)
Control Cont	Address: 1299 Harrisburg Pike, P.O. Box 44,	124		Container	40 ml	125 ml	250 ml	40 ml	ı	250 ml	125 ml	125 ml	500 ml	-	Cooler Temp: Therm ID: S	ic.
The property of the property	Lancaster, PA 17604			Presurvative	HC	H2S04	H2SO4	HCI	1	H2SO4	HNO3	HN03	None		y of Coolers; Y N	i initial
Manuals Carolify	Contact: Dan Brown						ANA	YSES/MI	THOD R	EQUEST	9				Custody Seals Present?	
Encount County All Wiley County	Phone#: (717) 735-0193							Ī			4				(if present) Seals Intact?	
Electrostet County Solid Week MA Electrostet Management of the Solid Management of the Solid Management of County Solid Management	Project Name/#: LCSWMA - Quarterly										ı, Mr	В	99		Received on Ice?	
Normal-Standard TAT is 40-12 business days. Communication Bill To: Lancaster County Solid Waste MA										6W 'a	K' N	pos		COC/Labels Complete/Accurate?		
1	E E	12 business val and surc pproved By:	days. harges.					€0 ∧OC®		ā	Metals: Ca, Fe	. Fe, Mg, Mn. I	105' NO3' CI'	HCO3	Cont. In Good Cond.? Correct Containers? Correct Sample Volumes?	
Sample Description Comments: Comment					13	н	1	Z8-914		-N° CC		eo :sle		linity, I	Correct Preservation? Headspace/Volatiles?	
1	Sample Description/Location	Sample Date	Time		001		XOT TOX	of Conta	iners Per	Sample or	Fletd Res	Mets Webs	.Hq		ourier/Tracking #: Sample/COC Comments	
A	1 3060RIVERRD	08/20/21	1232	-	2	1	2	13			-	,	-	-		
ALS Field Services: ALS Field Services: ALS Field Services: ALS Field Services: Composite Sampling Composite Sampling Composite Sampling Composite Services: C	2							2						Ī		
Pet Comments:	3						T	13	5					ī		
ALS Field Services: Used Early Company Name	4													Ħ		
ALS Field Services: Earnpfling ALS Field Services: Earnpfling Earlpfling Ea	5															
Part Comments:	9															
Second Process Comments: Cooker Devisionature Comments Company Name C	7.	Ī										П				
Secretices: Located BY Composite Sampling Received BY Composite Sampling CLP-like CLP-like USACE Navy CAMPAN	8						ij									i
Continents: CodGED BY (signature): Reviewed BY Company Name Company Nam	S.													Ī	_	JPickup LLabor CRental_Equipment
CodeD BY (signature): Received By / Company Name Date Time Special Processin Naw	10					100	Ĭ								Oother:	
Reviewed BY Company Name Date Time Received By Company Name Date Time Date Time Date Time Date Time Date Time Date Project Comments:		LOGGED BY(signature):							3-11		sa	Standa	Special Processing	State Samples	
Received By / Company Name Date Time Time Date			REVIEWED B	Y(signature)							31.1		W -		USACE	Collected in
	Relinquished By / Company Nam	ne C	Date		.6	Recei	ed By / C	ompany !	lame	100	Date 1	Time		I USACE		ž 2
6 Yes Lab 8 Special	2	8	W 100		4	7	77		ľ	,1	17/21	10	Report	ible to PA		7
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	7				60								# OISMa			
10 EDDS: Format Type-	o				10						Ī		EDDS:	ormat Type		



301 Fulling Mill Road Middletown, PA 17057 P: (717) 944-5541 F: (717) 944-1430

3196418

'ition of Sample Receipt Form

Client: V	Authority		-	-	
LOSWING	Authority	Initials:	Date:	=/20/2	,
\$20 min 100 mi					
I. Were airbills a tracking numbers present a	nd recorded?	(ii) i a (ii) ette tilsten siegittijustimumijt	MONE	YES	7.0
2. Are Custody Seals on shipping containers	intact?		KONE	YES	NO
3. Are Custody Seals on sample containers in				YES	No
4. Is there a COC (Chain-of-Custody) present	f 400: 10 sistematica (10 sist			YES	NO
5. Are the COC and bothle labels complete, la	gible and in agreement?		-111-41-1-11	YES	NO
Sa. Does the CQC contain sample location	157			. YES	No
5b. Does the COC contain date and time of	of sample collection for all samines			YES	No
5c. Does the COC contain sample collecte	rs-heme ¹ , toru promor are trans-	* 40 (8) 14 (1) 4 (4) (4) (4)		VES	NO
5d. Does the COC note the type is of pres					NO
Se. Does the COC note the number of bot					NO.
5f. Does the COC note the type of sample	composite or grab?	energy (tritricial) and Handson-Steenes	017-017-1-0-11	YES	NO.
5g. Does the COC note the matrix of the	sample(s/*			YESL	7/0
6. Are all aqueous samples requiring preserv	shan preserved con est 2		SUA	CES	NO
7. Were all semples placed in the proper con-	ramers for the requosted analyses.	with sufficent columes	Y 196 10	(FES	NO .
S. Are all samples within holding times for th	e repuested analyses*	(*) - (- (- (- (- (- (- (- (- (-		EES	NO
9. Were all sample containers recuived intact	and headspate free when requied	Vinot Brok in, leiking, frozen, etc.)	-	VES	770
10. Did we receive taip blanks i applies only f	to inclouds EPA 50%, EPA \$14.2 as	1.1531E ILL Hg/2	(NA	YES	NO.
11. Were the samples received on see	- 1000000000000000000000000000000000000	= 1111 1: 111 = 11111111111111111111111		CES.	NO
12. Were sample temperatures measured at (7 9-6,0°C			CES.	No
13 Are the samples DW matrix 3 If YES, fill of	a Reportable Danking Water quest	ons below		YES	CNO.
13a: Are the samples required for SDWA o	ompi arce reporting?		at/A	YES	NO
13b. Did the chent provide a SDWA PWS II)=? _{(***} ,,,,,,,,	at 1 mm/cm 11 to demonstration	N A	YES	NO
13c. Are all aquadus unpreserved SDWA s	emples pH 5-9?	(30) () () () () () () () () () (NA	YES	NO
13d. Did the client provide the SDWA sam	ple iscenou io Dascantori	mo at any is received entering and particular	N.A	YES	NO:
134. Did the thent provide the SDMA sanj	platypy (D, E, F, C, F, S, T.,	XXX	N/	YES	NO.
Cooler =	The second secon		no exertesa	office and the res	to the the second
Temperature (°Cr		,			
			-	-	1
Thermometer ID 575					
Radiological (µCi)					

COMMENTS (Required for all NO responses above and any sample non-conformance):

¹Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analysisal department at the time of or following the analysis

9av 1746 2021





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

September 13, 2021

Mr. Daniel Brown Lancaster County Solid Waste Authority 1299 Hbg Pike, P.O. Box 4425 Lancaster, PA 17604

Certificate of Analysis

Project Name: FREY FARM Workorder: 3196419

Purchase Order: PO-1000371 Workorder ID: 3RD QTR 20213056 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 20, 2021.

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 Ms. Susan J 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.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Ashley Gichuki, Ms. Jordan Gallagher, Mr. Jeff Musser

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

Ms. Susan J Scherer Project Coordinator

ALS Environmental Laboratory Locations Across North America

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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

SAMPLE SUMMARY

Workorder: 3196419 3RD QTR 20213056 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3196419001	3056RIVERRD	Water	8/20/2021 12:27	8/20/2021 17:25	Mr. Brian G Shade

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Report ID: 3196419 - 9/13/2021 Page 2 of 10





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SAMPLE SUMMARY

Workorder: 3196419 3RD QTR 20213056 RIVER RD

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).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- 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.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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)
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- MDL Method Detection Limit
 PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- 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

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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

PROJECT SUMMARY

Workorder: 3196419 3RD QTR 20213056 RIVER RD

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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ANALYTICAL RESULTS

Workorder: 3196419 3RD QTR 20213056 RIVER RD

Lab ID: 3196419001 Date Collected: 8/20/2021 12:27 Matrix: Water

Sample ID: 3056RIVERRD Date Received: 8/20/2021 17:25

VOLATILE ORGANICS Benzene ND C ug/L 1.0 SW846 8260B 8/27/21 05:23 PDK J 1,2-Dibromoethane ND C ug/L 1.0 SW846 8260B 8/27/21 05:23 PDK J 1,1-Dichloroethane ND C ug/L 1.0 SW846 8260B 8/27/21 05:23 PDK J 1,1-Dichloroethane ND C ug/L 1.0 SW846 8260B 8/27/21 05:23 PDK J 1,1-Dichloroethene ND C ug/L 1.0 SW846 8260B 8/27/21 05:23 PDK J cis-1,2-Dichloroethene ND C ug/L 1.0 SW846 8260B 8/27/21 05:23 PDK J Ethylbenzene ND C ug/L 1.0 SW846 8260B 8/27/21 05:23 PDK J Ethylbenzene ND C ug/L 1.0 SW846 8260B 8/27/21 05:23 PDK J Methylene Chloride ND C ug/L 1.0	
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4-Bromofluorobenzene (S) 101 C % 79 - 114 SW846 8260B 8/27/21 05:23 PDK J	
Dibromofluoromethane (S) 89.7 C % 78 - 116 SW846 8260B 8/27/21 05:23 PDK J	
Toluene-d8 (S) 91.3 C % 76 - 127 SW846 8260B 8/27/21 05:23 PDK J	
WET CHEMISTRY	
Alkalinity, Bicarbonate 11 C mg/L 5 SM2320B-2011 8/30/21 23:52 MBS C	
Alkalinity, Total 110 C,1 mg/L 5 SM2320B-2011 8/30/21 23:52 MBS A	
Ammonia-N 0.110 C mg/L 0.100 ASTM D6919-09 9/3/21 02:34 ALK B	
Chemical Oxygen Demand ND C mg/L 15 EPA 410.4 9/2/21 13:25 ALK B (COD)	
Chloride 28.7 C mg/L 2.0 EPA 300.0 8/21/21 09:40 MBS C	
Fluoride ND C mg/L 0.20 EPA 300.0 8/21/21 09:40 MBS C	
Halogen, Total Organic ND C ug/L 20.0 SW846 9020B 8/26/21 12:01 PAG I (TOX)	
Nitrate-N 16.9 C mg/L 0.20 EPA 300.0 8/21/21 09:40 MBS C	
Nitrite-N ND C mg/L 0.20 EPA 300.0 8/21/21 09:40 MBS C	
pH 6.04 C,2 pH_Units S4500HB-11 8/30/21 23:52 MBS C	
Phenolics ND C mg/L 0.005 EPA 420.4 9/2/21 18:17 MXF 9/7/21 09:36 MXF H	
Specific Conductance 273 C umhos/cm 1 SM2510B-2011 9/3/21 13:00 MBS C	

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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

ANALYTICAL RESULTS

Workorder: 3196419 3RD QTR 20213056 RIVER RD

Lab ID: 3196419001 Date Collected: 8/20/2021 12:27 Matrix: Water

Sample ID: **3056RIVERRD** Date Received: 8/20/2021 17:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
Sulfate	ND	С	mg/L	2.0	EPA 300.0			8/21/21 09:40	MBS	С
Total Dissolved Solids	180	С	mg/L	25	S2540C-11			8/24/21 11:16	BBD	С
Total Organic Carbon (TOC)	ND	С	mg/L	0.50	SM5310B-2011			8/25/21 00:35	PAG	F
Turbidity	0.23	С	NTU	0.10	SM2130B-2011			8/21/21 07:06	LXZ	С
METALS										
Calcium, Total	10.6	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:50	SRT	D1
Calcium, Dissolved	10.8	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:58	SRT	Е
Iron, Total	ND	С	mg/L	0.030	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:50	SRT	D1
Iron, Dissolved	ND	С	mg/L	0.060	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:58	SRT	Ε
Magnesium, Total	12.9	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:50	SRT	D1
Magnesium, Dissolved	12.9	С	mg/L	0.10	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:58	SRT	Ε
Manganese, Total	0.089	С	mg/L	0.0025	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:50	SRT	D1
Manganese, Dissolved	0.094	С	mg/L	0.0050	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:58	SRT	Е
Potassium, Total	2.5	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:50	SRT	D1
Potassium, Dissolved	2.8	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:58	SRT	Ε
Sodium, Total	8.7	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 09:50	SRT	D1
Sodium, Dissolved	9.0	С	mg/L	0.50	EPA 200.7	8/27/21 07:07	SRT	8/27/21 14:58	SRT	Е
FIELD PARAMETERS										
pH, Field (SM4500B)	6.10	С	pH_Units		Field			8/20/21 12:27	BGS	L
Specific Conductance, Field	271	С	umhos/cm	1	Field			8/20/21 12:27	BGS	L
Temperature	15.20	С	Deg. C		Field			8/20/21 12:27	BGS	L

Ms. Susan J Scherer Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3196419 3RD QTR 20213056 RIVER RD

P	'AR	AMET	ER	QUA	۱LIF	IERS
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Lab ID	#	Sample ID	Analytical Method	Analyte
3196419001	1	3056RIVERRD	SM2320B-2011	Alkalinity, Total
The Total Alkalinity	is titrate	ed to a pH of 4.5 and reported as mg	CaCO3/L.	
3196419001	2	3056RIVERRD	S4500HB-11	На

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.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3196419 3RD QTR 20213056 RIVER RD

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3196419001	3056RIVERRD	ASTM D6919-09		
3196419001	3056RIVERRD	EPA 200.7	EPA ACID	
3196419001	3056RIVERRD	EPA 200.7	EPA TRMD	
3196419001	3056RIVERRD	EPA 300.0		
3196419001	3056RIVERRD	EPA 410.4		
3196419001	3056RIVERRD	EPA 420.4	420.4/9066	
3196419001	3056RIVERRD	Field		
3196419001	3056RIVERRD	S2540C-11		
3196419001	3056RIVERRD	S4500HB-11		
3196419001	3056RIVERRD	SM2130B-2011		
3196419001	3056RIVERRD	SM2320B-2011		
3196419001	3056RIVERRD	SM2510B-2011		
3196419001	3056RIVERRD	SM5310B-2011		
3196419001	3056RIVERRD	SW846 8260B		
3196419001	3056RIVERRD	SW846 9020B		

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ient Name: Lancaster, PA 17604 Cancatter, Dan Brown Contact: Dan Brown Colorett: (717) 735-0193 Colorett: Lancaster, County, Augustenty Colorett: Cancaster, County, Coloretty Colorettis Dan Brown Colorettis Dan Br												1		
ient Name: Lancaster County Solid Waste MA ddress: 1299 Harrisburg Pike, P.O. Box 4424 Lancaster, PA 17604 ontact: Dan Brown hone#: (717) 735-0193 roject Name#: LCSWMA - Quarterly ill To: Lancaster County Solid Maste MA		AL	L SHAD	ED ARE	AS MUST	BE CON	PLETED	BY THE	ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /	-	ALS Q		3196419	-
lient Name: Lancaster County Solid Waste MA ddress: 1299 Harrisburg Pike, P.O. Box 4424 Lancaster, PA 17604 ontact: Dan Brown hone#: (717) 735-0193 roject Name/#: LCSWMA - Quarterly			"	AMPLE	R. INST	SAMPLER. INSTRUCTIONS ON THE BA	S ON TH	BACK.				1 1		
ddress: 1299 Harrisburg Pike, P.O. Box 4424 Lancaster, PA 17604 ontact: Dan Brown hone#: (717) 735-0193 roject Name#: LCSWMA - Quarterly		Container	AG	AN	AN	90	1	P.	PL P	PL PL	PL			J Lab)
Lancaster, PA 17604 ontact: Dan Brown hone#: (717) 735-0193 roject Name/#: LCSWMA-Quarterly		Containe: Stee	40 ml	125 ml	250 ml	40 ml	25	250 ml 12!	125 ml 125	125 ml 500 ml	II 500 ml	Cooler Temp:	Therm ID:	83
ontact: Dan Brown hone#; (717) 735-0193 roject Name#; LCSWMA - Quarterly III To: Lanceter County Solid Waste Ma	ď	Preservative	宁	H2S04	H2SO4	오	모	H2SO4 HIN	HNO3 HN	HNO3 None	e None	No. of Coolers:	*	N Initial
hone#: (717) 735-0193 roject Name#: LCSWMA - Quarterly III To: Lampeter County Solid Waste MA					ANAL	ANALYSES/METHOD REQUESTED	HOD REC	NESTED				Cuis	Custody Seals Present?	
roject Namel#: LCSWMA - Quarterly								4				(g)	(if present) Seals Intact?	
III To: 1 apparator County Solid Waste Ma								JM .		-			Received on Ice?	
II I'V. Lancasici County Cond Maste Min								pM .				COC/Labels	COC/Labels Complete/Accurate?	
ormal-Standard TAT is ush-Subject to ALS app	, s					\$00/		als: Ca, Fe		' M9, Mn,	50		Cont. in Good Cond.? Correct Containers?	
ate Required: Approved By:	T					\$ 0928					у нес	500	Correct Sample Volumes?	
	Ĭ	_	0	н	×	3-978		3-N, c	BV	SOT	SpC		Headspace/Volatiles?	
Sample Description/Location Sample		'G or	ют)-O	OT N	Futer Number of Containers Per Sample or Field Results Below	LE Per Sar	HN sid	K, I	'Hd		Courier/Tracking #:	king #: Sample/COC Comments	
08/20/21		-	2	÷	2	×	-	,		-	*			
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	1				T	ROA	1				-		3	
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							-	+	+	+		ALS Fiel	ALS Field Services:	□Labor
												☐ ☐Composi	□Composite_Sampling □Rental □Other:	☐Rental_Equipment
oject Comments:	LOGGED BY(signature):	mature):			1		3295		341				Special Processing St	State Samples
REVIEW	WED BY(8	REVIEWED BY(signature):			X		3440		3//1	ata		CLP-like	USACE	Collected In
Relinquished By / Company Name Date	-	Time () 16.2	le la	Receive	d By Co	Received By / Company Name	me	a Co	Date Tir		Delive S	USACE	Navy	ž 2
NAC A	-			3	3			3		Ret	Reportable to PADEP?	PADEP?	Sample Disposal	X PA
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		80								# diswa	#0		Special	
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301 Fulling Mill Road Middletown, PA 17057 P: (717) 944-5541 F: (717) 944-1430

Condition of Sample Receipt Form 3196419

Client: Work	ancester County Salls (Takie	Initials:	Date:	7-1	
411 816 10	Authority	16.5	_	1.01/2	t
). Were airbills / tracking numbers present and rec	urder	The state of the s	NONE	Y85	NO
	ing number				
2. Are Custody Seals on shipping containers imagin	>		NONE	VES.	NO
3. Are Custody Seals on sample containers intact?				YES	NO
4. Is there a COC (Chain of Custody) present?				YES	NO
5. Are the COC and bottle labels complete, legible				PES	NO
5a Does the COC contain sample locations?				YES	NO
5. Does the COC contain date and time of sam	uple collection for an same ast.			YES	NO.
5c Does the COC contain sample collectors has	ne ³			VES	NO.
5d. Does the COC note the type(s) of preservate				YES	NO.
5e. Does the COC nate the number of bottles so	Jommsed for Pac Samme		101-011-01	YES	NO.
5f. Does the COC note the type of sample com-				4 2	NO
5g. Does the COC note the matrix of the sample	e(sP	Orania de la la la compania de compania del compania de la compania del compania del compania de la compania del compania de		YEST	NO
G. Are all aqueous samples requiring preservation (present ad convictly"		NA	SES	140
7. Were all samples placed in the proper contamers	for the equoting analyses, with	sufficient valume?		GES	NO
S. Are all samples within holding tures for the requ	rested and reinsein	() 01818 08562 (0188 04) = 111 = (18(44 - 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		TES	NO
9. Were all sample containers received intact and h	eadspace free when required him	of bruken, leaking frazer, etc.)	-000	23.2	Nō
(0) Did wa receive trip blanks capplies only for ma	thads EPA 501, BPA 534.2 and 18	31E/L/Hb7	N.S	YES	No
1.1. Were the samples received on ree?		C-5197 YY -1		EES	- NO
12. Were sample temperatures measured at 0.0-6.0	ne.		-	CES:	NØ
1.3 Are the samples DW matrix ? If YES, fill out Rep	urtable Drinking Water questi. 1s	below		YES-	(N)
I Sa. Are the samples required for SDWA compl	dirice reporting?	100 100 11 1 · · · · · · · · · · · ·	Ma	YES-	ND
TSb. Did the client provide a 50% A PWS ID ₹?	town the notation that the contract of	00 000 0 00 0 00 00 00 00 00 00 00 00 0	NA	YES	NO
13r. Are all aqueous unpreserved SDWA sample	s pH 5-9"		NA	YES	NO
13d. Did the client provide the SDWA sample to	cation (D. Description)	1 20 30 2 10 10 0 14 3 13 10 20	NA	#ES	NO
Tai Old the thent provide the SDWA sample ty	pe (D, E, R, C, P, S)	1 October 2 Statement (Income a sept	N/B	YES.	NO.
Cooler ≠.		The state of the s	*********		91070+
Temperature 1°Cr					
Thermometer ID 5 1					
Radiological (µCi)					

COMMENTS (Required for all NO responses above and any sample non-conformance):

Final determination of correct preservation for analysis such as volatiles, microbiology, and bit and grease is made in the analysical department at the time of or following the analysis

Re. 1/2/, 2020





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

September 13, 2021

Mr. Daniel Brown Lancaster County Solid Waste Authority 1299 Hbg Pike, P.O. Box 4425 Lancaster, PA 17604

Certificate of Analysis

Project Name: CONTIGUOUS LANDOWNER-

3125 RIVER RD

Purchase Order: PO-1000371

Workorder: **3196404**

Workorder ID: 3RD QTR 2020-3125 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 20, 2021.

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 Ms. Susan J 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 Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Ashley Gichuki , Ms. Jordan Gallagher , Landowner , Mr. Jeff Musser

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

Ms. Susan J Scherer
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3196404 3RD QTR 2020-3125 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3196404001	3125 River Road, Conestoga, PA	Water	8/20/2021 13:01	8/20/2021 17:25	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 3196404 3RD QTR 2020-3125 RIVER RD

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).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- 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.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
 PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- 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
- Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
- (S) Surrogate Compound
- NC Not Calculated
- * Result outside of QC limits

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PROJECT SUMMARY

Workorder: 3196404 3RD QTR 2020-3125 RIVER RD

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

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ANALYTICAL RESULTS

Workorder: 3196404 3RD QTR 2020-3125 RIVER RD

Lab ID: 3196404001 Date Collected: 8/20/2021 13:01 Matrix: Water

Sample ID: 3125 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
VOLATILE ORGANICS										
Benzene	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
1,2-Dibromoethane	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
1,1-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
1,2-Dichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
1,1-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
cis-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
trans-1,2-Dichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
Ethylbenzene	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
Methylene Chloride	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
Tetrachloroethene	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
Toluene	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
Total Xylenes	ND	С	ug/L	3.0	SW846 8260B			8/26/21 17:46	TMP	J
1,1,1-Trichloroethane	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
Trichloroethene	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
Trichlorofluoromethane	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
Vinyl Chloride	ND	С	ug/L	1.0	SW846 8260B			8/26/21 17:46	TMP	J
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1,2-Dichloroethane-d4 (S)	92.8	С	%	62 - 133	SW846 8260B			8/26/21 17:46	TMP	J
4-Bromofluorobenzene (S)	101	С	%	79 - 114	SW846 8260B			8/26/21 17:46	TMP	J
Dibromofluoromethane (S)	88.5	С	%	78 - 116	SW846 8260B			8/26/21 17:46	TMP	J
Toluene-d8 (S)	93.5	С	%	76 - 127	SW846 8260B			8/26/21 17:46	TMP	J
WET CHEMISTRY										
Alkalinity, Bicarbonate	12	С	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	С
Alkalinity, Total	12	C,1	mg/L	5	SM2320B-2011			8/30/21 23:52	MBS	Α
Ammonia-N	0.152	С	mg/L	0.100	ASTM D6919-09			9/1/21 22:43	ALK	В
Chemical Oxygen Demand (COD)	ND	С	mg/L	15	EPA 410.4			9/2/21 13:25	ALK	В
Chloride	81.4	С	mg/L	2.0	EPA 300.0			8/21/21 09:26	MBS	С
Fluoride	ND	С	mg/L	0.20	EPA 300.0			8/21/21 09:26	MBS	С
Halogen, Total Organic (TOX)	ND	С	ug/L	20.0	SW846 9020B			8/24/21 14:57	PAG	1
Nitrate-N	10.5	С	mg/L	0.20	EPA 300.0			8/21/21 09:26	MBS	С
Nitrite-N	ND	С	mg/L	0.20	EPA 300.0			8/21/21 09:26	MBS	С
рН	6.12	C,2	pH_Units		S4500HB-11			8/30/21 23:52	MBS	С
Phenolics	ND	C	mg/L	0.005	EPA 420.4	9/2/21 18:16	MXF	9/7/21 09:36	MXF	Н
Specific Conductance	450	C	umhos/cm	1	SM2510B-2011			9/3/21 13:00	MBS	С

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ANALYTICAL RESULTS

Workorder: 3196404 3RD QTR 2020-3125 RIVER RD

Lab ID: 3196404001 Date Collected: 8/20/2021 13:01 Matrix: Water

Sample ID: 3125 River Road, Conestoga, PA Date Received: 8/20/2021 17:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
Sulfate	11.9	С	mg/L	2.0	EPA 300.0			8/21/21 09:26	MBS	С
Total Dissolved Solids	254	С	mg/L	25	S2540C-11			8/24/21 11:16	BBD	С
Total Organic Carbon (TOC)	ND	С	mg/L	0.50	SM5310B-2011			8/24/21 21:34	PAG	F
Turbidity	0.76	С	NTU	0.10	SM2130B-2011			8/21/21 07:06	LXZ	С
METALS										
Calcium, Total	0.099	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 08:31	SRT	D1
Calcium, Dissolved	ND	С	mg/L	0.10	EPA 200.7	8/25/21 06:27	SRT	8/25/21 14:10	SRT	Ε
Iron, Total	ND	С	mg/L	0.030	EPA 200.7	8/22/21 11:28	AHI	8/24/21 08:31	SRT	D1
Iron, Dissolved	ND	С	mg/L	0.060	EPA 200.7	8/25/21 06:27	SRT	8/25/21 14:10	SRT	Ε
Magnesium, Total	ND	С	mg/L	0.050	EPA 200.7	8/22/21 11:28	AHI	8/24/21 08:31	SRT	D1
Magnesium, Dissolved	ND	С	mg/L	0.10	EPA 200.7	8/25/21 06:27	SRT	8/25/21 14:10	SRT	Ε
Manganese, Total	ND	С	mg/L	0.0025	EPA 200.7	8/22/21 11:28	AHI	8/24/21 08:31	SRT	D1
Manganese, Dissolved	ND	С	mg/L	0.0050	EPA 200.7	8/25/21 06:27	SRT	8/25/21 14:10	SRT	Ε
Potassium, Total	0.55	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 08:31	SRT	D1
Potassium, Dissolved	0.77	С	mg/L	0.50	EPA 200.7	8/25/21 06:27	SRT	8/25/21 14:10	SRT	Ε
Sodium, Total	150	С	mg/L	0.25	EPA 200.7	8/22/21 11:28	AHI	8/24/21 08:31	SRT	D1
Sodium, Dissolved	164	С	mg/L	0.50	EPA 200.7	8/25/21 06:27	SRT	8/25/21 14:10	SRT	Ε
FIELD PARAMETERS										
pH, Field (SM4500B)	6.04	С	pH_Units		Field			8/20/21 13:01	BGS	L
Specific Conductance, Field	441	С	umhos/cm	1	Field			8/20/21 13:01	BGS	L
Temperature	16.10	С	Deg. C		Field			8/20/21 13:01	BGS	L

Ms. Susan J Scherer Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3196404 3RD QTR 2020-3125 RIVER RD

PARAMETER QUALI	IFIERS
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Lab ID	#	Sample ID	Analytical Method	Analyte
3196404001	1	3125 River Road, Conestoga, PA	SM2320B-2011	Alkalinity, Total
The Total Alkalinity	is titrate	ed to a pH of 4.5 and reported as mg (CaCO3/L.	
3196404001	2	3125 River Road, Conestoga, PA	S4500HB-11	рН

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.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3196404 3RD QTR 2020-3125 RIVER RD

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3196404001	3125 River Road, Conestoga, PA	ASTM D6919-09		
3196404001	3125 River Road, Conestoga, PA	EPA 200.7	EPA ACID	
3196404001	3125 River Road, Conestoga, PA	EPA 200.7	EPA TRMD	
3196404001	3125 River Road, Conestoga, PA	EPA 300.0		
3196404001	3125 River Road, Conestoga, PA	EPA 410.4		
3196404001	3125 River Road, Conestoga, PA	EPA 420.4	420.4/9066	
3196404001	3125 River Road, Conestoga, PA	Field		
3196404001	3125 River Road, Conestoga, PA	S2540C-11		
3196404001	3125 River Road, Conestoga, PA	S4500HB-11		
3196404001	3125 River Road, Conestoga, PA	SM2130B-2011		
3196404001	3125 River Road, Conestoga, PA	SM2320B-2011		
3196404001	3125 River Road, Conestoga, PA	SM2510B-2011		
3196404001	3125 River Road, Conestoga, PA	SM5310B-2011		
3196404001	3125 River Road, Conestoga, PA	SW846 8260B		
3196404001	3125 River Road, Conestoga, PA	SW846 9020B		

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Sof Fulling Mill Road • Middletown, PA 17057 • 717 944 5541 • Fav. 717.944 1430 Client Name: LCSWMA - Christian C. Beck Address; 3125 River Road Conestoga, PA 17516 Contact: Christian C. Beck Phone#: (717) 871-0448 Profect Name#: LCSWMA - Ottorby			F 21	NDED AR	EAS MU	ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT	MP ET	D BY TH	E CLEN	1.1	AIS	10	196404	-
Client Name: LCSWMA - Christian C. Beck Address: 3125 River Road Conestoga, PA 17516 Contact: Christian C. Beck Phone#: (717) 871-0448 Protect Name#: 1 CSWMA - Ottorboty	717.944.143			SAMPL	ER. INS	SAMPLER. INSTRUCTIONS ON THE BACK	NS ON TI	HE BACK				311		
Address: 3125 River Road Conestoga, PA 17516 Contact: Christian C, Beck Phone#: (717) 871-0448 Project Name#: CSWMM - Olivatedu		Container	AG	AN	AN	99	1	占	긥	7	Pl Pl		Receipt information (completed by Receiving Lab)	g Lab)
Contact: Christian C. Beck Phone#: (717) 871-0448 Proinct Name#: CSWMM - Olivadety		Containor Size	40 ml	125 ml	250 ml	40 ml	1	250 ml	125 ml 1	125 ml 50	500 ml 500 ml	ml Cooler Temp:	Them ID: 93	
Contact: Christian C. Beck Phone#: (717) 871-0448 Project Name#: CSWMA - Olivatedu		Preservative	오	H2S04	H2S04	크 모	F	H2S04	HN03	HN03	None No	None No. of Coolers:	>	Initial
Phone#: (717) 871-0448 Project Name#: 1 CSWMMA - Charletty					ANA	ANALYSES/METHOD REQUESTED	ETHOD R	QUESTE					Custody Seals Present?	
Project Name/#: 1 CSWMA - Otterforty	No.						Ī		.,		-		(if present) Seals Intact?	
I Specification Country Additions									nar 4				Received on Ice?	
Bill To: Lancaster County Solid Waste MA									SIAI *			COCUTA	COCILabels Complete/Accurate?	
TAT X Normal-Standard TAT is 10-12 business days. Rush-Subject to ALS approval and surcharges. Annroyed By:	days. harges.					NOC®		3 -0 -1-1	tals: Ca, Fe	s' Mg, Mn, I			Cont. in Good Cond.? Correct Containers?	
						0928		doc	aw n		HC,		Correct Preservation?	I
Fax? -Y No.:			3	Н	,	3-978					Ods	C-11	Headspace/Volatiles?	ľ
Sample Description/Location Sample	Timo	O no Đ kintsMi	OOT	0-0	XOT	aws 5	EW EW	EHN	K' N	Met.	Tb, 5	-	Courier/Tracking #:	
c	1204	-	9		C C	A X X X X X X X X X X X X X X X X X X X	S I I I I I I I I I I I I I I I I I I I	authe Or	יות עבות	s perow.	-		oampieroc comments	
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7									H					
8														
6										H	H	ALS	1-	apor
10								Ī				OOther:	UComposite_Sampling UKental_Equipment Oother:	pment
Project Comments:	LOGGED BY(signature):	signature):					31ya		301			Standard	Special Processing State Samples	mples
	REVIEWED BY(signature)	Y(signature					3110		anu.	ata	eldan	CLP-like	USACE Collected In	ul pa
quished By Company Name	Date	Time		Recei	red By / C	Received By / Company Name	ате		Date 7	Time	elive	USACE	Navy N	
1 XPG CLAME AUS	N.O. S	my	2	CAN	B			9/2	24/21 1	325		V		
3			4	,						1	eportable	Reportable to PADEP?	Sample Disposal X PA	
5			9								Yes		Lab X NC	23
7			600							PW	# diswd		Special D	
6	1		10							ш	EDDS: Format Type-	10 EDDS: Format Type-		i



301 Fulling Mill Road Middletown, PA 17057 P: (717) 944-5541 F: (717) 944-1430

Condition of Sample Receipt Form 3196404

Client: w	Lancaster County Solid Waste Authority	initials:	Date:	190/-	7
I. Were airbills / Wacking numbers present a	nd recorded?/ Tracking number/	r - >>>ik ti)=(vmi=mi >mi (w)+ve (vime	MONE	YES	NO.
2. Are Custody Seals on shipping containers	m;act?,	[-AB = 1 - 102 - 1 - 102 -	NONE	YES.	NO.
3. Are Custody Seals on sample containers in				YES	No:
4. Is there a COC (Chair of Gustody) present?	***************************************		110 x 20 1 10 10 10 10 10 10 10 10 10 10 10 10	YES	NO.
5. Are the COC and bottle labels complete, le	guble and in agree bent?	F1	- + 1	NES	NO
5a. Doës the COC contain sample location	157	HI =8+ 1H-1		YES	NO
5b. Does the COC contain date and tinte	of sample collection for all samples".		-12-1249	YES	NO.
Sc. Doës the COC contain sample collecto	ra name?			YES	No
5d Does the COC note the type(s) of pres	ervation for all bottles?	* 1 01 1780 Y-011-213- 01011-150-2011-1	(*)(-xx-x	YES	No
Se. Does the COC note the number of bot	tles submitted for each sample?	X X ==		YES	NO.
3f. Does the COC note the type of sample	composité or grab?			YES	NO.
5g. Does the COC note the matrix of the	sample si7	1 1 = (1 1 observed the contract of the contra	************	YEST	NO.
6. Are all agueous samples requiring preserv	ation preserved correctly	-Kell i	N/A	SES	NO
7. Were all samples placed in the proper con-	a ners for the requested analyses, v-	ath softigrent yourse?	Jak seriosere	CES	NO.
8. Are all samples within holding times for th	e requested analyses to	2 PC - 11 - 11 200 (010 C) 200 (010 (10 C) (010 (10 C)	00.030030	TES	NO
9 Were all sample containers received intact	and headspace free when respired?	enot broken leaking, fragen, sich		SES	No
10. Did sie receive trip blanks i applies only l	or methods EPA 504, EPA 524.2 and	163 E H Hg?	(NA	YES	NO
I.T. Were the samples received on ice?	CONTROL OF THE PARTY OF THE PAR	· · · · · · · · · · · · · · · · · · ·	00.000.000.00	EE5	NO.
12. Were sample temperatures measured at i	D-0.6.0°C	-x- x-		(FES:	NO
13. Are the samples DW matrix of YES, fill or	at Reportable Drinking Water question	ins below		YES	CNO
13a. Are the samples required for SDWA o	compliance replating?		ONLA	YES	NO
) 3b. Old the chem provide a SDWA PWS II	D=?		NA	YES	NO:
130. Are all addeous unpreserved SDWA's	amples pH 5.95		NIA	YES	NO
13d, D.d the Client provide the SDWA sam	ple location (D. Description)		NA	YES	NO
13a Did the ment-movide (h) \$0\(\text{A} \) sem	ole type (D. E. F. C. F. S ²		N-F	YES	NO
Coaler #					
Temperature (°C)					
The momenter ID 5 +3					
Radiological (µCi)					

COMMENTS (Required for all NO responses above and any sample non-conformance):

Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

Ras 1/20 2020