

June 30, 2016

Ms. Charlene Sauls; Regional Hydrogeologist
Pennsylvania Department of Environmental Protection
Bureau of Waste Management
909 Elmerton Avenue
Harrisburg, PA 17110-8200

REF: Private Water Supply
2nd Quarter 2016 Form 52 Water Quality Analysis
Frey Farm Landfill; BWM Permit #101389

Dear Ms. Sauls:

In accordance with the Municipal Waste Management Regulations, the Lancaster County Solid Waste Management Authority (LCSWMA) continues the above-referenced monitoring program.

Please be aware the well location ID have been changed to reflect the sites address instead of the previous landowner's initials. A key to the changes is attached as Location ID.xlsx.

Attached are the Forms 52, lab reports, and excel csv file for your Landlinks Access database. MCL and SMCL exceedances are as follows:

1. USEPA MCL's exceedance report; four samples (3044RIVERR, 3052RIVERR, 3076RIVERR and 3088RIVERR) exceeded the limit for nitrate, samples are consistent with historic data the cause is attributed to agricultural impacts. No other MCL's were exceeded.
2. USEPA SMCL's exceedance report; three samples (3052RIVERR, 3076RIVERR, and 3088RIVERR) exceeded the limit for manganese and on TDS which are consistent with historic data and are attributed to natural soil and geologic conditions.

Ground water monitoring concentrations where consistent with historic data, no significant deviations where observed.

Please do not hesitate in contacting me if you have any questions or concerns at mreider@lcswma.org.

Respectfully submitted,



Mark D Reid
Director of Environmental Compliance

Enclosures

Cc: Bob Zorbaugh, Dan Brown, Bob Eshbach
Ed Rawski, Randy Weiss (PaDEP)

Date Prepared/Revised
06/22/2016

DEP USE ONLY

Date Received

FORM 52

MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: SMITH

Address: 3044 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39° 57' 30.85" Longitude: 76° 26' 11.25"

Depth to Water Level: _____ ft.

Measured from: Land Surface TOC

Casing Stick Up: _____ ft.

Elevation of Water Level: _____ ft./MSL

Total Well Depth: _____ ft.

Sampling Depth: _____ ft.

Sampling Method: Pumped BailedWell Purged: Yes No

Well Volumes Purged: _____

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

Sample Date:(mm/dd/yy) 05/20/2016

Sample Collection Time: 10:16 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

06/06/2016

Were any holding times exceeded?: Yes 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 SMITH

Sample Date

05/20/2016

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	12	SM20-2321
CALCIUM, TOTAL	16.5	EPA 200.7
CALCIUM, DISSOLVED	16.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	5 ND	EPA 410.2
CHLORIDE	18.6	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	10.5	EPA 200.7
MAGNESIUM, DISSOLVED	10.7	EPA 200.7
MANGANESE, TOTAL (ug/l)	16	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	17	EPA 200.7
NITRATE-NITROGEN	20.5	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 SMITH

Sample Date

05/20/2016

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.5 ND	EPA 300
pH-FIELD (SU)	5.08	FIELD
pH-LAB (SU)	6.16	SM4500B
POTASSIUM, TOTAL	2	EPA 200.7
POTASSIUM, DISSOLVED	2	EPA 200.7
SODIUM, TOTAL	9.4	EPA 200.7
SODIUM, DISSOLVED	9.4	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	245	FIELD
SPEC. COND., LAB (umhos/cm)	233	EPA 120.1
SULFATE	5 ND	EPA 300
ALKALINITY	12	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	241	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.17	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 SMITH

Sample Date

05/20/2016

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

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

T Please indicate detection limit if analyte is not detected.

Date Prepared/Revised
06/22/2016

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

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: MILLER

Address: 3052 RIVER ROAD

Phone No.:

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

Depth to Water Level: _____ ft.

Measured from: Land Surface TOC

Casing Stick Up: _____ ft.

Elevation of Water Level: _____ ft./MSL

Total Well Depth: _____ ft.

Sampling Depth: _____ ft.

Sampling Method: Pumped BailedWell Purged: Yes No

Well Volumes Purged: _____

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

Sample Date:(mm/dd/yy) 05/20/2016

Sample Collection Time: 10:25 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

06/06/2016

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

Comments:

**FORM 52
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PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS MILLER

Sample Date

05/20/2016

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	5	SM20-2321
CALCIUM, TOTAL	14.8	EPA 200.7
CALCIUM, DISSOLVED	14.5	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	5 ND	EPA 410.2
CHLORIDE	19.3	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	10.3	EPA 200.7
MAGNESIUM, DISSOLVED	10.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	57	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	55	EPA 200.7
NITRATE-NITROGEN	19.2	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52
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PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS MILLER

Sample Date

05/20/2016

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)	4.5	FIELD
pH-LAB (SU)	5.66	SM4500B
POTASSIUM, TOTAL	2.1	EPA 200.7
POTASSIUM, DISSOLVED	2.2	EPA 200.7
SODIUM, TOTAL	7.4	EPA 200.7
SODIUM, DISSOLVED	7.2	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	251	FIELD
SPEC. COND., LAB (umhos/cm)	215	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	5	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	234	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.24	SM 2130B

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS MILLER

Sample Date

05/20/2016

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

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

T Please indicate detection limit if analyte is not detected.

Date Prepared/Revised
06/22/2016

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FORM 52

MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: SENSENICH

Address: 3076 RIVER ROAD

Phone No.:

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

Depth to Water Level: _____ ft.

Measured from: Land Surface TOC

Casing Stick Up: _____ ft.

Elevation of Water Level: _____ ft./MSL

Total Well Depth: _____ ft.

Sampling Depth: _____ ft.

Sampling Method: Pumped BailedWell Purged: Yes No

Well Volumes Purged: _____

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

Sample Date:(mm/dd/yy) 05/20/2016

Sample Collection Time: 10:34 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

06/06/2016

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

Comments:

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS SENSENICH

Sample Date

05/20/2016

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	7	SM20-2321
CALCIUM, TOTAL	15.5	EPA 200.7
CALCIUM, DISSOLVED	15.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	5 ND	EPA 410.2
CHLORIDE	44.3	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	9.1	EPA 200.7
MAGNESIUM, DISSOLVED	9.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	200	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	200	EPA 200.7
NITRATE-NITROGEN	12.6	EPA 300

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS SENSENICH

Sample Date

05/20/2016

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)	4.96	FIELD
pH-LAB (SU)	5.78	SM4500B
POTASSIUM, TOTAL	3.5	EPA 200.7
POTASSIUM, DISSOLVED	3.5	EPA 200.7
SODIUM, TOTAL	20.7	EPA 200.7
SODIUM, DISSOLVED	20.4	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	311	FIELD
SPEC. COND., LAB (umhos/cm)	278	EPA 120.1
SULFATE	13.1	EPA 300
ALKALINITY	7	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	237	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5	EPA 420.4
TURBIDITY (NTU)	0.1 ND	SM 2130B

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS SENSENICH

Sample Date

05/20/2016

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

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

T Please indicate detection limit if analyte is not detected.

Date Prepared/Revised
06/22/2016

DEP USE ONLY

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FORM 52

MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: WEBER

Address: 3088 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39° 57' 21" Longitude: 76° 26' 7.1"

Depth to Water Level: _____ ft.

Measured from: Land Surface TOC

Casing Stick Up: _____ ft.

Elevation of Water Level: _____ ft./MSL

Total Well Depth: _____ ft.

Sampling Depth: _____ ft.

Sampling Method: Pumped BailedWell Purged: Yes No

Well Volumes Purged: _____

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

Sample Date:(mm/dd/yy) 05/20/2016

Sample Collection Time: 10:50 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

06/06/2016

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

Comments:

FORM 52
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PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS WEBER

Sample Date

05/20/2016

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	124	SM20-2321
CALCIUM, TOTAL	0.11	EPA 200.7
CALCIUM, DISSOLVED	0.15	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	5 ND	EPA 410.2
CHLORIDE	219	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	54	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)	3.5	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	5 ND	EPA 200.7
NITRATE-NITROGEN	13.4	EPA 300

T Please indicate detection limit if analyte is not detected.

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MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS WEBER

Sample Date

05/20/2016

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)	6.19	FIELD
pH-LAB (SU)	7.17	SM4500B
POTASSIUM, TOTAL	2.2	EPA 200.7
POTASSIUM, DISSOLVED	2.1	EPA 200.7
SODIUM, TOTAL	194	EPA 200.7
SODIUM, DISSOLVED	200	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	988	FIELD
SPEC. COND., LAB (umhos/cm)	1060	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	124	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	597	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.19	SM 2130B

T Please indicate detection limit if analyte is not detected.

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Monitoring Point I.D. No.

PS WEBER

Sample Date

05/20/2016

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

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

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SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: KIRCHNER

Address: 3100 RIVER ROAD

Phone No.:

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

Depth to Water Level: _____ ft.

Measured from: Land Surface TOC

Casing Stick Up: _____ ft.

Elevation of Water Level: _____ ft./MSL

Total Well Depth: _____ ft.

Sampling Depth: _____ ft.

Sampling Method: Pumped BailedWell Purged: Yes No

Well Volumes Purged: _____

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

Sample Date:(mm/dd/yy) 05/20/2016

Sample Collection Time: 10:00 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

06/06/2016

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

Comments:

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS KIRCHNER

Sample Date

05/20/2016

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	11	SM20-2321
CALCIUM, TOTAL	18.1	EPA 200.7
CALCIUM, DISSOLVED	18.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	5 ND	EPA 410.2
CHLORIDE	54.1	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	7.8	EPA 200.7
MAGNESIUM, DISSOLVED	8	EPA 200.7
MANGANESE, TOTAL (ug/l)	7.2	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	7.5	EPA 200.7
NITRATE-NITROGEN	6	EPA 300

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS KIRCHNER

Sample Date

05/20/2016

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)	4.73	FIELD
pH-LAB (SU)	5.92	SM4500B
POTASSIUM, TOTAL	1.6	EPA 200.7
POTASSIUM, DISSOLVED	1.7	EPA 200.7
SODIUM, TOTAL	14.4	EPA 200.7
SODIUM, DISSOLVED	14.9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	323	FIELD
SPEC. COND., LAB (umhos/cm)	248	EPA 120.1
SULFATE	7.1	EPA 300
ALKALINITY	11	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	240	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.81	SM 2130B

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS KIRCHNER

Sample Date

05/20/2016

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

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

T Please indicate detection limit if analyte is not detected.

Date Prepared/Revised
06/22/2016

DEP USE ONLY

Date Received

FORM 52

MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: LCSWMA

Address: 3106 RIVER ROAD

Phone No.:

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

Depth to Water Level: _____ ft.

Measured from: Land Surface TOC

Casing Stick Up: _____ ft.

Elevation of Water Level: _____ ft./MSL

Total Well Depth: _____ ft.

Sampling Depth: _____ ft.

Sampling Method: Pumped BailedWell Purged: Yes No

Well Volumes Purged: _____

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

Sample Date:(mm/dd/yy) 05/27/2016

Sample Collection Time: 3:23 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

06/15/2016

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

Comments:

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

05/27/2016

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	13	SM20-2321
CALCIUM, TOTAL	13.8	EPA 200.7
CALCIUM, DISSOLVED	13.2	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	5 ND	EPA 410.2
CHLORIDE	55.6	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	72	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	8.6	EPA 200.7
MAGNESIUM, DISSOLVED	8.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	22	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	20	EPA 200.7
NITRATE-NITROGEN	9.5	EPA 300

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

05/27/2016

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)	6.33	FIELD
pH-LAB (SU)	6.33	SM4500B
POTASSIUM, TOTAL	1.6	EPA 200.7
POTASSIUM, DISSOLVED	1.6	EPA 200.7
SODIUM, TOTAL	27.3	EPA 200.7
SODIUM, DISSOLVED	25.2	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	283	FIELD
SPEC. COND., LAB (umhos/cm)	277	EPA 120.1
SULFATE	4.5	EPA 300
ALKALINITY	13	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	185	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	1.18	SM 2130B

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

05/27/2016

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

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

T Please indicate detection limit if analyte is not detected.

Date Prepared/Revised
06/22/2016

DEP USE ONLY

Date Received

FORM 52

MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: BECK

Address: 3125 RIVER ROAD

Phone No.:

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

Depth to Water Level: _____ ft.

Measured from: Land Surface TOC

Casing Stick Up: _____ ft.

Elevation of Water Level: _____ ft./MSL

Total Well Depth: _____ ft.

Sampling Depth: _____ ft.

Sampling Method: Pumped BailedWell Purged: Yes No

Well Volumes Purged: _____

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

Sample Date:(mm/dd/yy) 05/20/2016

Sample Collection Time: 11:10 AM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

06/07/2016

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

Comments:

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS BECK

Sample Date

05/20/2016

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	48	SM20-2321
CALCIUM, TOTAL	0.053	EPA 200.7
CALCIUM, DISSOLVED	0.13	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	11	EPA 410.2
CHLORIDE	87.3	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	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	7.5	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

05/20/2016

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)	5.54	FIELD
pH-LAB (SU)	6.74	SM4500B
POTASSIUM, TOTAL	1.5	EPA 200.7
POTASSIUM, DISSOLVED	1.6	EPA 200.7
SODIUM, TOTAL	88.8	EPA 200.7
SODIUM, DISSOLVED	91.9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	461	FIELD
SPEC. COND., LAB (umhos/cm)	457	EPA 120.1
SULFATE	8	EPA 300
ALKALINITY	48	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	282	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1 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.

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS BECK

Sample Date

05/20/2016

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

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

T Please indicate detection limit if analyte is not detected.

June 7, 2016

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

Certificate of Analysis

Project Name: 2016-CONTIGUOUS	Workorder: 2145495
Purchase Order:	Workorder ID: 2ND QTR 2016-3044 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, May 20, 2016.

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.

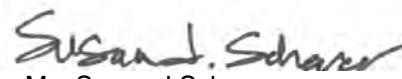
Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications 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: Mr. Mark Reider , 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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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



SAMPLE SUMMARY

Workorder: 2145495 2ND QTR 2016-3044 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2145495001	3044 River Road, Conestoga, PA	Water	5/20/2016 10:16	5/20/2016 13:58	Mr. Brian G Shade

ALS Environmental Laboratory Locations Across North America

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 2145495 2ND QTR 2016-3044 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 performed 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.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
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 AmericaCanada: 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

PROJECT SUMMARY

Workorder: 2145495 2ND QTR 2016-3044 RIVER RD

Sample Comments

Lab ID: 2145495001

Sample ID: 3044 River Road,
Conestoga, PA

Sample Type: SAMPLE

The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO₃/L.

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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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2145495 2ND QTR 2016-3044 RIVER RD

Lab ID: **2145495001** Date Collected: 5/20/2016 10:16 Matrix: Water
Sample ID: **3044 River Road, Conestoga, PA** Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
1,2-Dibromoethane	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
1,1-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
1,2-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
1,1-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
cis-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
trans-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
Methylene Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
Tetrachloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
Toluene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
Total Xylenes	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
1,1,1-Trichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
Trichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
Trichlorofluoromethane	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
Vinyl Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 21:22	SYB	K
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichlorobenzene-d4 (S)	83		%	70 - 130	EPA 524.2			5/28/16 21:22	SYB	K
4-Bromofluorobenzene (S)	78		%	70 - 130	EPA 524.2			5/28/16 21:22	SYB	K
WET CHEMISTRY										
Alkalinity, Bicarbonate	12		mg/L	5	S2320B-97			5/21/16 02:28	MSA	C
Alkalinity, Total	12		mg/L	5	S2320B-97			5/21/16 02:28	MSA	C
Ammonia-N	ND		mg/L	0.100	D6919-09			6/2/16 04:31	NJA	B
Chemical Oxygen Demand (COD)	ND		mg/L	5	EPA 410.4			6/6/16 07:00	JAM	B
Chloride	18.6		mg/L	5.0	EPA 300.0			5/21/16 08:58	MBW	C
Fluoride	ND		mg/L	0.50	EPA 300.0			5/21/16 08:58	MBW	C
Halogen, Total Organic (TOX)	ND		ug/L	20.0	SW846 9020B			5/25/16 14:02	PAG	I
Nitrate-N	20.5		mg/L	0.50	EPA 300.0			5/21/16 08:58	MBW	C
Nitrite-N	ND		mg/L	0.50	EPA 300.0			5/21/16 08:58	MBW	C
pH	6.16		pH_Units		S4500HB-00			5/21/16 02:28	MSA	C
Phenolics	ND		mg/L	0.005	EPA 420.4	5/25/16 09:00	AK	5/30/16 11:20	JLG	H
Specific Conductance	233		umhos/cm	1	S2510B-97			5/21/16 02:28	MSA	C
Sulfate	ND		mg/L	5.0	EPA 300.0			5/21/16 08:58	MBW	C
Total Dissolved Solids	241		mg/L	5	S2540C-11			5/27/16 11:00	KAM	A

ALS Environmental Laboratory Locations Across North America

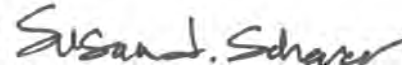
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
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ANALYTICAL RESULTS

Workorder: 2145495 2ND QTR 2016-3044 RIVER RD

Lab ID: **2145495001** Date Collected: 5/20/2016 10:16 Matrix: Water
Sample ID: **3044 River Road, Conestoga, PA** Date Received: 5/20/2016 13:58

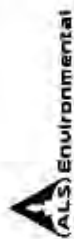
Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Total Organic Carbon (TOC)	ND		mg/L	1.0	S5310B-00			5/23/16 10:40	PAG	F
Turbidity	0.17		NTU	0.10	S2130B-01			5/21/16 04:37	MSA	C
METALS										
Calcium, Total	16.5		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:41	TSS	D1
Calcium, Dissolved	16.3		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 15:58	TSS	E
Iron, Total	ND		mg/L	0.030	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:41	TSS	D1
Iron, Dissolved	ND		mg/L	0.060	EPA 200.7	5/20/16 17:14	TSS	5/24/16 15:58	TSS	E
Magnesium, Total	10.5		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:41	TSS	D1
Magnesium, Dissolved	10.7		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 15:58	TSS	E
Manganese, Total	0.016		mg/L	0.0025	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:41	TSS	D1
Manganese, Dissolved	0.017		mg/L	0.0050	EPA 200.7	5/20/16 17:14	TSS	5/24/16 15:58	TSS	E
Potassium, Total	2.0		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:41	TSS	D1
Potassium, Dissolved	2.0		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 15:58	TSS	E
Sodium, Total	9.4		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:41	TSS	D1
Sodium, Dissolved	9.4		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 15:58	TSS	E
FIELD PARAMETERS										
pH, Field (SM4500B)	5.080		pH_Units		Field			5/20/16 10:16	BGS	N
Specific Conductance, Field	245		umhos/cm	1	Field			5/20/16 10:16	BGS	N
Temperature	18.30		Deg. C		Field			5/20/16 10:16	BGS	N



Ms. Susan J Scherer
Project Coordinator

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**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**
**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
 SAMPLER. INSTRUCTIONS ON THE BACK.**

Generated by ALS

Client Name: LCSWMA - Nelson L. Smith
 Address: 3044 River Road
 Conestoga, PA 17516
 Contact: Nelson L. Smith
 Phone: (717) 872-2888
 Project Name: LCSWMA - Quarterly
 Bill To: Lancaster County Solid Waste MA

Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
 Date Required: _____ Approved By: _____
 Email? -Y -N
 Fax? -Y -N

Container Type	AG	AN	AN	AN	CG	PL	PL	PL	PL	PL
Container Size	40 ml	250 ml	500 ml	500 ml	40 ml	500 ml	500 ml	500 ml	500 ml	2 L
Preservative	HCl	H2SO4	H2SO4	HCl	HCl	HNO3	HNO3	HNO3	HNO3	None

ANALYSES/METHOD REQUESTED

Parameter	Matrix	Volume	Number of Containers	Field Results
TOC	G DW	2	2	1
TOX	G DW	2	2	1
OH	G DW	1	1	1
VOC	G DW	1	1	1
FM	G DW	1	1	1
NH3-N, COD	G DW	1	1	1
Dissolved Metals: Ca, Fe, Mg, Mn, K, Na	G DW	1	1	1
Metals: Ca, Fe, Mg, Mn, K, Na	G DW	1	1	1
PH, TDS, NO2, NO3, Cl, SO4, F, T, SPC	G DW	1	1	1
Alkalinity, HCO3	G DW	1	1	1

Enter Number of Containers Per Sample or Field Results Below.

Sample	Date	Time	Relinquished By / Company Name	Received By / Company Name	Date	Time
1-GHG66MM# 3044 REVERED	5-20-16	10:00	ALS	Wentz	5/20/16	13:58
2						
3						
4						
5						
6						
7						
8						
9						
10						

Project Comments:

LOGGED BY (signature):

REVIEWED BY (signature):

Cooler Temp: 16 Therm ID: T4360
 No. of Coolers: 1 Initial: NSS

Custody Seals Present? (if present) Seals Intact?
 Received on Ice?
 COC Labels Complete/Accurate?
 Cont. In Good Cond.?
 Correct Containers?
 Correct Sample Volumes?
 Correct Preservation?
 Headspace Volumes?

Counter/Tracking #: _____
 Sample/COC Comments: _____

ALS Field Services: Pickup Labor
 Composite_Sampling Rental_Equipment
 Other: _____

Standard	Special Processing	Slate Samples Collected In
<input type="checkbox"/> Standard	USACE <input type="checkbox"/>	NY <input type="checkbox"/>
<input type="checkbox"/> CLP-like	Navy <input type="checkbox"/>	NJ <input type="checkbox"/>
<input type="checkbox"/> USACE		PA <input checked="" type="checkbox"/>
		NC <input type="checkbox"/>

Reportable to PADEP? Yes No
 Lab Special
 PWSID # _____
 EDDS: Format Type: _____

* G=Grab, C=Composite **Matrix - AL=Air, DW=Drinking Water, GW=Groundwater, OL=Oil, OL=Other Liquid, SL=Sludge, SO=Soil, WP=Wipe, WW=Wastewater
 ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

June 7, 2016

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

Certificate of Analysis

Project Name: 2016-CONTIGUOUS	Workorder: 2145497
Purchase Order:	Workorder ID: 2ND QTR 2016-3052 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, May 20, 2016.

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.

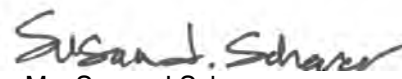
Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications 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: Mr. Mark Reider , 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: 2145497 2ND QTR 2016-3052 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2145497001	3052 River Road, Conestoga, PA	Water	5/20/2016 10:25	5/20/2016 13:58	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 2145497 2ND QTR 2016-3052 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 performed 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.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
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: 2145497 2ND QTR 2016-3052 RIVER RD

Sample Comments

Lab ID: 2145497001

Sample ID: 3052 River Road,
Conestoga, PA

Sample Type: SAMPLE

The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO₃/L.

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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ANALYTICAL RESULTS

Workorder: 2145497 2ND QTR 2016-3052 RIVER RD

Lab ID: **2145497001** Date Collected: 5/20/2016 10:25 Matrix: Water
Sample ID: **3052 River Road, Conestoga, PA** Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
1,2-Dibromoethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
1,1-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
1,2-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
1,1-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
cis-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
trans-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
Methylene Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
Tetrachloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
Toluene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
Total Xylenes	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
1,1,1-Trichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
Trichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
Trichlorofluoromethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
Vinyl Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 22:06	SYB	K
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichlorobenzene-d4 (S)	84.8		%	70 - 130	EPA 524.2			5/28/16 22:06	SYB	K
4-Bromofluorobenzene (S)	80.2		%	70 - 130	EPA 524.2			5/28/16 22:06	SYB	K
WET CHEMISTRY										
Alkalinity, Bicarbonate	5		mg/L	5	S2320B-97			5/21/16 03:05	MSA	C
Alkalinity, Total	5		mg/L	5	S2320B-97			5/21/16 03:05	MSA	C
Ammonia-N	ND		mg/L	0.100	D6919-09			6/2/16 05:09	NJA	B
Chemical Oxygen Demand (COD)	ND		mg/L	5	EPA 410.4			6/6/16 07:00	JAM	B
Chloride	19.3		mg/L	2.0	EPA 300.0			5/21/16 10:24	MBW	C
Fluoride	ND		mg/L	0.20	EPA 300.0			5/21/16 10:24	MBW	C
Halogen, Total Organic (TOX)	ND		ug/L	20.0	SW846 9020B			5/25/16 15:04	PAG	I
Nitrate-N	19.2		mg/L	0.20	EPA 300.0			5/21/16 10:24	MBW	C
Nitrite-N	ND		mg/L	0.20	EPA 300.0			5/21/16 10:24	MBW	C
pH	5.66		pH_Units		S4500HB-00			5/21/16 03:05	MSA	C
Phenolics	ND	1	mg/L	0.005	EPA 420.4	5/25/16 09:00	AK	5/30/16 16:04	JLG	H
Specific Conductance	215		umhos/cm	1	S2510B-97			5/21/16 03:05	MSA	C
Sulfate	ND		mg/L	2.0	EPA 300.0			5/21/16 10:24	MBW	C
Total Dissolved Solids	234		mg/L	5	S2540C-11			5/27/16 11:00	KAM	A

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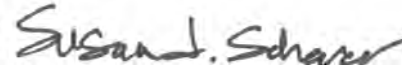
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ANALYTICAL RESULTS

Workorder: 2145497 2ND QTR 2016-3052 RIVER RD

Lab ID: **2145497001** Date Collected: 5/20/2016 10:25 Matrix: Water
Sample ID: **3052 River Road, Conestoga, PA** Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Total Organic Carbon (TOC)	ND		mg/L	1.0	S5310B-00			5/23/16 10:40	PAG	F
Turbidity	0.24		NTU	0.10	S2130B-01			5/21/16 04:37	MSA	C
METALS										
Calcium, Total	14.8		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:49	TSS	D1
Calcium, Dissolved	14.5		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:20	TSS	E
Iron, Total	ND		mg/L	0.030	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:49	TSS	D1
Iron, Dissolved	ND		mg/L	0.060	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:20	TSS	E
Magnesium, Total	10.3		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:49	TSS	D1
Magnesium, Dissolved	10.2		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:20	TSS	E
Manganese, Total	0.057		mg/L	0.0025	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:49	TSS	D1
Manganese, Dissolved	0.055		mg/L	0.0050	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:20	TSS	E
Potassium, Total	2.1		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:49	TSS	D1
Potassium, Dissolved	2.2		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:20	TSS	E
Sodium, Total	7.4		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:49	TSS	D1
Sodium, Dissolved	7.2		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:20	TSS	E
FIELD PARAMETERS										
pH, Field (SM4500B)	4.500		pH_Units		Field			5/20/16 10:25	BGS	N
Specific Conductance, Field	251		umhos/cm	1	Field			5/20/16 10:25	BGS	N
Temperature	18.60		Deg. C		Field			5/20/16 10:25	BGS	N



Ms. Susan J Scherer
Project Coordinator

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PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2145497001	1	3052 River Road, Conestoga, PA	EPA 420.4	Phenolics

The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits.

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Therm ID: **TA360**
 Cooler Temp: **19**
 No. of Coolers: **Y** **N** Initial **JSSL**

Custody Seals Present?
 (If present) Seals Intact?
 Received on Ice?
 COC Labels Completed/Accurate?
 Cont. in Good Cond.?
 Correct Containers?
 Correct Sample Volumes?
 Correct Preservation?
 Heatspace Volumes?

Courier Tracking #: **2**

ALS Field Services: Pickup Labor
 Composite Sampling Rental Equipment
 Other:

Special Processing
 USACE
 Navy
 USACE

State Samples Collected In
 NY
 NJ
 PA
 NC

Sample Disposal
 Lab
 Special

Standard
 CLP-like
 USACE

Reportable to PADEP? Yes
 PWSID #

EDDS: Formal Type-

Deliverables
 Standard
 CLP-like
 USACE

Alkalinity, HCO3
 pH, TDS, NO2, NO3, Cl, SO4, F,
 Tb, SpC
 Metals: Ca, Fe, Mg, Mn, K, Na
 Dissolved Metals: Ca, Fe, Mg, Mn,
 K, Na
 NH3-N, COD
 VOC
 FM
 TOX
 TOC

Enter Number of Containers Per Sample or Field Results Below.

Sample #	Matrix	G	DW	2	1	2	1	1	1	1	1	1
1	G	DW	2	2	1	2	1	1	1	1	1	1
2												
3												
4												
5												
6												
7												
8												
9												
10												

LOGGED BY (signature): **[Signature]** Date: **5/20/16** Time: **10:25**
 REVIEWED BY (signature): **[Signature]** Date: **5/20/16** Time: **13:58**

Relinquished By / Company Name: **[Signature]** Date: **5/20/16** Time: **13:58**
 Date Required: **5-20-16** Approved By: **[Signature]**
 Email? -Y -N
 Fax? -Y -N

June 7, 2016

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

Certificate of Analysis

Project Name: 2016-CONTIGUOUS	Workorder: 2145498
Purchase Order:	Workorder ID: 2ND QTR 2016-3076 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, May 20, 2016.

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.

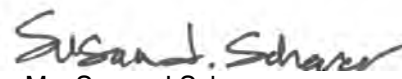
Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications 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: Mr. Mark Reider , 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: 2145498 2ND QTR 2016-3076 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2145498001	3076 River Road, Conestoga, PA	Water	5/20/2016 10:34	5/20/2016 13:58	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 2145498 2ND QTR 2016-3076 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 performed 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.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
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: 2145498 2ND QTR 2016-3076 RIVER RD

Sample Comments

Lab ID: 2145498001

Sample ID: 3076 River Road,
Conestoga, PA

Sample Type: SAMPLE

The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO₃/L.

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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ANALYTICAL RESULTS

Workorder: 2145498 2ND QTR 2016-3076 RIVER RD

Lab ID: **2145498001** Date Collected: 5/20/2016 10:34 Matrix: Water
Sample ID: **3076 River Road, Conestoga, PA** Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
1,2-Dibromoethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
1,1-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
1,2-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
1,1-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
cis-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
trans-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
Methylene Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
Tetrachloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
Toluene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
Total Xylenes	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
1,1,1-Trichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
Trichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
Trichlorofluoromethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
Vinyl Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 22:29	SYB	K
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichlorobenzene-d4 (S)	80.9		%	70 - 130	EPA 524.2			5/28/16 22:29	SYB	K
4-Bromofluorobenzene (S)	77.3		%	70 - 130	EPA 524.2			5/28/16 22:29	SYB	K
WET CHEMISTRY										
Alkalinity, Bicarbonate	7		mg/L	5	S2320B-97			5/21/16 03:14	MSA	C
Alkalinity, Total	7		mg/L	5	S2320B-97			5/21/16 03:14	MSA	C
Ammonia-N	ND		mg/L	0.100	D6919-09			6/2/16 06:06	NJA	B
Chemical Oxygen Demand (COD)	ND		mg/L	5	EPA 410.4			6/6/16 07:00	JAM	B
Chloride	44.3		mg/L	2.0	EPA 300.0			5/21/16 10:35	MBW	C
Fluoride	ND		mg/L	0.20	EPA 300.0			5/21/16 10:35	MBW	C
Halogen, Total Organic (TOX)	ND		ug/L	20.0	SW846 9020B			5/25/16 15:30	PAG	I
Nitrate-N	12.6		mg/L	0.20	EPA 300.0			5/21/16 10:35	MBW	C
Nitrite-N	ND		mg/L	0.20	EPA 300.0			5/21/16 10:35	MBW	C
pH	5.78		pH_Units		S4500HB-00			5/21/16 03:14	MSA	C
Phenolics	0.005		mg/L	0.005	EPA 420.4	5/25/16 09:00	AK	5/30/16 16:07	JLG	H
Specific Conductance	278		umhos/cm	1	S2510B-97			5/21/16 03:14	MSA	C
Sulfate	13.1		mg/L	2.0	EPA 300.0			5/21/16 10:35	MBW	C
Total Dissolved Solids	237		mg/L	5	S2540C-11			5/27/16 11:00	KAM	A

ALS Environmental Laboratory Locations Across North America

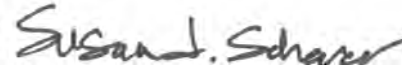
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ANALYTICAL RESULTS

Workorder: 2145498 2ND QTR 2016-3076 RIVER RD

Lab ID: **2145498001** Date Collected: 5/20/2016 10:34 Matrix: Water
Sample ID: **3076 River Road, Conestoga, PA** Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Total Organic Carbon (TOC)	ND		mg/L	1.0	S5310B-00			5/23/16 10:40	PAG	F
Turbidity	ND		NTU	0.10	S2130B-01			5/21/16 04:37	MSA	C
METALS										
Calcium, Total	15.5		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:07	TSS	D1
Calcium, Dissolved	15.4		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:24	TSS	E
Iron, Total	ND		mg/L	0.030	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:07	TSS	D1
Iron, Dissolved	ND		mg/L	0.060	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:24	TSS	E
Magnesium, Total	9.1		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:07	TSS	D1
Magnesium, Dissolved	9.2		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:24	TSS	E
Manganese, Total	0.20		mg/L	0.0025	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:07	TSS	D1
Manganese, Dissolved	0.20		mg/L	0.0050	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:24	TSS	E
Potassium, Total	3.5		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:07	TSS	D1
Potassium, Dissolved	3.5		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:24	TSS	E
Sodium, Total	20.7		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:07	TSS	D1
Sodium, Dissolved	20.4		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:24	TSS	E
FIELD PARAMETERS										
pH, Field (SM4500B)	4.960		pH_Units		Field			5/20/16 10:34	BGS	N
Specific Conductance, Field	311		umhos/cm	1	Field			5/20/16 10:34	BGS	N
Temperature	18.40		Deg. C		Field			5/20/16 10:34	BGS	N



Ms. Susan J Scherer
Project Coordinator

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1 by Receiving Lab
 Therm ID: 41360

**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**
 ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
 SAMPLER, INSTRUCTIONS ON THE BACK.

34 Dogwood Lane • Middlestown, PA 17057 • T: 717-944-3541 • F: 717-944-1430
 Client Name: LCSWMA - Esther A. Schopf
 Address: 3075 Rover Road
 Conestoga, PA 17516
 Contact: Esther A. Schopf
 Phone#: (717) 872-2559
 Project Name#: LCSWMA - Quarterly
 Bill To: Lancaster County Solid Waste M/A

No. of Coolers: Y M Initial: JSSL
 Cooler Temp: 1 Therm ID: 41360
 Custody Seals Present?
 (If present) Seals Intact?
 Received on Ice?
 COC/Labels Complete/Accurate?
 Cont. in Good Cond.?
 Correct Containers?
 Correct Sample Volumes?
 Correct Preservation?
 Headspace/Volatiles?

ANALYSES/METHOD REQUESTED

Container Type	AG	AN	AN	CG	PL	PL	PL	PL	PL
Container Size	40 ml	250 ml	500 ml	40 ml	500 ml	500 ml	500 ml	500 ml	2 L
Preservative	HCl	H2SO4	H2SO4	HCl	H2SO4	HNO3	HNO3	HNO3	None

Enter Number of Containers Per Sample or Field Results Below

Matrix	TOC	TOX	O-OH	VOC	FM	NH3-N, COD	Dissolved Metals: Ca, Fe, Mg, Mn, K, Na	Metals: Ca, Fe, Mg, Mn, K, Na	PH, TDS, NO2, NO3, Cl, SO4, F, TP, SpC	Alkalinity, HCO3
G or C	2	2	1	2	1	1	1	1	1	1
DW	2	2	1	2	1	1	1	1	1	1

Sample Description/Location (as it will appear on the lab report): 3075 RIVER RD
 Sample Date: 5-20-16
 Time: 1034
 TAT: Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
 Date Required: _____ Approved By: _____
 Email? .Y .N
 Fax? .Y .N

Project Comments:

LOGGED BY (signature): [Signature]
 REVIEWED BY (signature): [Signature]

Date	Time	Received By / Company Name
5-20-16	1034	[Signature]
5-20-16	1358	[Signature]

ALS Field Services: Pickup Labor Rental_Equipment
 Composite_Sampling Other:

Special Processing: USACE Navy
 Reportable to PADEP? Yes No
 PWSID #: _____
 EDDS: Format Type: _____

State Samples Collected In: PA NJ NY NC

June 9, 2016

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

Certificate of Analysis

Project Name: 2016-CONTIGUOUS	Workorder: 2145499
Purchase Order:	Workorder ID: 2ND QTR 2016-3088 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, May 20, 2016.

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.

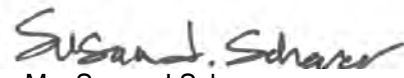
Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications 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: Mr. Mark Reider , Landowner , Mr. Jeff Musser

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Ms. Susan J Scherer
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2145499 2ND QTR 2016-3088 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2145499001	3088 River Road, Conestoga PA	Water	5/20/2016 10:50	5/20/2016 13:58	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 2145499 2ND QTR 2016-3088 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 performed 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.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
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: 2145499 2ND QTR 2016-3088 RIVER RD

Sample Comments

Lab ID: 2145499001

Sample ID: 3088 River Road,
Conestoga PA

Sample Type: SAMPLE

The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO₃/L.

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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ANALYTICAL RESULTS

Workorder: 2145499 2ND QTR 2016-3088 RIVER RD

 Lab ID: **2145499001** Date Collected: 5/20/2016 10:50 Matrix: Water
 Sample ID: **3088 River Road, Conestoga PA** Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
1,2-Dibromoethane	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
1,1-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
1,2-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
1,1-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
cis-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
trans-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
Methylene Chloride	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
Tetrachloroethene	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
Toluene	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
Total Xylenes	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
1,1,1-Trichloroethane	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
Trichloroethene	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
Trichlorofluoromethane	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
Vinyl Chloride	ND		ug/L	0.50	EPA 524.2			5/31/16 16:01	DD	K
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichlorobenzene-d4 (S)	81.1		%	70 - 130	EPA 524.2			5/31/16 16:01	DD	K
4-Bromofluorobenzene (S)	79.4		%	70 - 130	EPA 524.2			5/31/16 16:01	DD	K
WET CHEMISTRY										
Alkalinity, Bicarbonate	124		mg/L	5	S2320B-97			5/21/16 03:23	MSA	C
Alkalinity, Total	124		mg/L	5	S2320B-97			5/21/16 03:23	MSA	C
Ammonia-N	ND		mg/L	0.100	D6919-09			6/2/16 06:25	NJA	B
Chemical Oxygen Demand (COD)	ND		mg/L	5	EPA 410.4			6/6/16 07:00	JAM	B
Chloride	219		mg/L	5.0	EPA 300.0			5/24/16 06:06	JP	C
Fluoride	ND		mg/L	0.20	EPA 300.0			5/21/16 10:46	MBW	C
Halogen, Total Organic (TOX)	ND		ug/L	20.0	SW846 9020B			5/26/16 13:56	PAG	I
Nitrate-N	13.4		mg/L	0.20	EPA 300.0			5/21/16 10:46	MBW	C
Nitrite-N	ND		mg/L	0.20	EPA 300.0			5/21/16 10:46	MBW	C
pH	7.17		pH_Units		S4500HB-00			5/21/16 03:23	MSA	C
Phenolics	ND		mg/L	0.005	EPA 420.4	5/25/16 09:00	AK	5/30/16 11:31	JLG	H
Specific Conductance	1060		umhos/cm	1	S2510B-97			5/21/16 03:23	MSA	C
Sulfate	ND		mg/L	2.0	EPA 300.0			5/21/16 10:46	MBW	C
Total Dissolved Solids	597		mg/L	5	S2540C-11			5/27/16 14:45	KAM	A

ALS Environmental Laboratory Locations Across North America

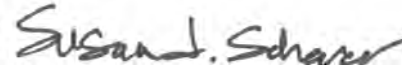
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
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ANALYTICAL RESULTS

Workorder: 2145499 2ND QTR 2016-3088 RIVER RD

Lab ID: **2145499001** Date Collected: 5/20/2016 10:50 Matrix: Water
Sample ID: **3088 River Road, Conestoga PA** Date Received: 5/20/2016 13:58

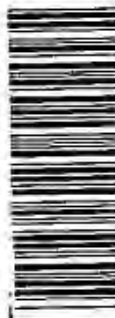
Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Total Organic Carbon (TOC)	ND		mg/L	1.0	S5310B-00			5/23/16 10:40	PAG	F
Turbidity	0.19		NTU	0.10	S2130B-01			5/21/16 04:37	MSA	C
METALS										
Calcium, Total	0.11		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:18	TSS	D1
Calcium, Dissolved	0.15		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:28	TSS	E
Iron, Total	0.054		mg/L	0.030	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:18	TSS	D1
Iron, Dissolved	ND		mg/L	0.060	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:28	TSS	E
Magnesium, Total	ND		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:18	TSS	D1
Magnesium, Dissolved	ND		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:28	TSS	E
Manganese, Total	0.0035		mg/L	0.0025	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:18	TSS	D1
Manganese, Dissolved	ND		mg/L	0.0050	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:28	TSS	E
Potassium, Total	2.2		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:18	TSS	D1
Potassium, Dissolved	2.1		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:28	TSS	E
Sodium, Total	194		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:18	TSS	D1
Sodium, Dissolved	200		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:28	TSS	E
FIELD PARAMETERS										
pH, Field (SM4500B)	6.190		pH_Units		Field			5/20/16 10:50	BGS	N
Specific Conductance, Field	988		umhos/cm	1	Field			5/20/16 10:50	BGS	N
Temperature	20.30		Deg. C		Field			5/20/16 10:50	BGS	N



Ms. Susan J Scherer
Project Coordinator

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

Client Name: LCSWMA - Hans Weber and Deb Kalbach
Address: 3088 River Road
Conestoga, PA 17516
Contact: Hans Weber and Deb Kalbach
Phone#: (717) 419-7982
Project Name#: LCSWMA - Quarterly
Bill To: LCSWMA - Hans Weber and Deb Kalbach

TAT Normal-Standard TAT is 10-12 business days.
Date Required: -Y -Y No. Approved By: _____
Email? -Y -Y No. Fax? -Y -Y No.

Container Type	AG	AN	AN	CG	PL	PL	PL	PL	PL
40 ml	H2SO4	500 ml	500 ml	40 ml	500 ml	500 ml	500 ml	500 ml	2 L
Preservative	HCl	H2SO4	H2SO4	HCl	HNO3	HNO3	HNO3	HNO3	None

Matrix	TOC	TOX	O-OH	VOC	FM	NH3-N, COD	Dissolved Metals: Ca, Fe, Mg, Mn, K, Na	Metals: Ca, Fe, Mg, Mn, K, Na	PH, TDS, NO2, NO3, Cl, SO4, F, Pb, Spc	Alkalinity, HCO3
G DW	2	2	1	1	1	1	1	1	1	1

Sample Description/Location	Sample Date	Time
1 GUGGELW 3088 RIVER RD	5-20-16	1050

Container Type	AG	AN	AN	CG	PL	PL	PL	PL	PL
40 ml	H2SO4	500 ml	500 ml	40 ml	500 ml	500 ml	500 ml	500 ml	2 L

Project Comments: _____
LOGGED BY (signature): _____
REVIEWED BY (signature): _____

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Hans Weber / ALS	5-20-16	1358	[Signature]	5/20/16	1358

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June 7, 2016

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

Certificate of Analysis

Project Name: 2016-CONTIGUOUS	Workorder: 2145496
Purchase Order:	Workorder ID: 2ND QTR 2016-3100 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, May 20, 2016.

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.

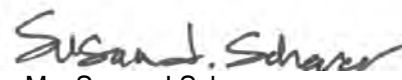
Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications 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: Mr. Mark Reider , 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: 2145496 2ND QTR 2016-3100 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2145496001	3100 River Road, Conestoga, PA	Water	5/20/2016 10:00	5/20/2016 13:58	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 2145496 2ND QTR 2016-3100 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 performed 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.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
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: 2145496 2ND QTR 2016-3100 RIVER RD

Sample Comments

Lab ID: 2145496001

Sample ID: 3100 River Road,
Conestoga, PA

Sample Type: SAMPLE

The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO₃/L.

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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ANALYTICAL RESULTS

Workorder: 2145496 2ND QTR 2016-3100 RIVER RD

Lab ID: **2145496001** Date Collected: 5/20/2016 10:00 Matrix: Water
Sample ID: **3100 River Road, Conestoga, PA** Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
1,2-Dibromoethane	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
1,1-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
1,2-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
1,1-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
cis-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
trans-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
Methylene Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
Tetrachloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
Toluene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
Total Xylenes	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
1,1,1-Trichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
Trichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
Trichlorofluoromethane	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
Vinyl Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 21:44	SYB	K
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichlorobenzene-d4 (S)	78.3		%	70 - 130	EPA 524.2			5/28/16 21:44	SYB	K
4-Bromofluorobenzene (S)	77.9		%	70 - 130	EPA 524.2			5/28/16 21:44	SYB	K
WET CHEMISTRY										
Alkalinity, Bicarbonate	11		mg/L	5	S2320B-97			5/21/16 02:57	MSA	C
Alkalinity, Total	11		mg/L	5	S2320B-97			5/21/16 02:57	MSA	C
Ammonia-N	ND		mg/L	0.100	D6919-09			6/2/16 04:50	NJA	B
Chemical Oxygen Demand (COD)	ND		mg/L	5	EPA 410.4			6/6/16 07:00	JAM	B
Chloride	54.1		mg/L	2.0	EPA 300.0			5/21/16 09:08	MBW	C
Fluoride	ND		mg/L	0.20	EPA 300.0			5/21/16 09:08	MBW	C
Halogen, Total Organic (TOX)	ND		ug/L	20.0	SW846 9020B			5/25/16 14:34	PAG	I
Nitrate-N	6.0		mg/L	0.20	EPA 300.0			5/21/16 09:08	MBW	C
Nitrite-N	ND		mg/L	0.20	EPA 300.0			5/21/16 09:08	MBW	C
pH	5.92		pH_Units		S4500HB-00			5/21/16 02:57	MSA	C
Phenolics	ND		mg/L	0.005	EPA 420.4	5/25/16 09:00	AK	5/30/16 11:21	JLG	H
Specific Conductance	248		umhos/cm	1	S2510B-97			5/21/16 02:57	MSA	C
Sulfate	7.1		mg/L	2.0	EPA 300.0			5/21/16 09:08	MBW	C
Total Dissolved Solids	240		mg/L	5	S2540C-11			5/27/16 11:00	KAM	A

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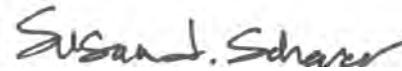
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
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ANALYTICAL RESULTS

Workorder: 2145496 2ND QTR 2016-3100 RIVER RD

Lab ID: **2145496001** Date Collected: 5/20/2016 10:00 Matrix: Water
Sample ID: **3100 River Road, Conestoga, PA** Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Total Organic Carbon (TOC)	ND		mg/L	1.0	S5310B-00			5/23/16 10:40	PAG	F
Turbidity	0.81		NTU	0.10	S2130B-01			5/21/16 04:37	MSA	C
METALS										
Calcium, Total	18.1		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:45	TSS	D1
Calcium, Dissolved	18.4		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:16	TSS	E
Iron, Total	ND		mg/L	0.030	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:45	TSS	D1
Iron, Dissolved	ND		mg/L	0.060	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:16	TSS	E
Magnesium, Total	7.8		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:45	TSS	D1
Magnesium, Dissolved	8.0		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:16	TSS	E
Manganese, Total	0.0072		mg/L	0.0025	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:45	TSS	D1
Manganese, Dissolved	0.0075		mg/L	0.0050	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:16	TSS	E
Potassium, Total	1.6		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:45	TSS	D1
Potassium, Dissolved	1.7		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:16	TSS	E
Sodium, Total	14.4		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 21:45	TSS	D1
Sodium, Dissolved	14.9		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:16	TSS	E
FIELD PARAMETERS										
pH, Field (SM4500B)	4.730		pH_Units		Field			5/20/16 10:00	BGS	N
Specific Conductance, Field	323		umhos/cm	1	Field			5/20/16 10:00	BGS	N
Temperature	20.40		Deg. C		Field			5/20/16 10:00	BGS	N



Ms. Susan J Scherer
Project Coordinator

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SAMPLER. INSTRUCTIONS ON THE BACK.

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Client Name: LCSWMA - Larry Kirchner

Address: 3100 River Road

Conestoga, PA 17516

Contact: Larry Kirchner

Phone#: (717) 584-0030

Project Name#: LCSWMA - Quarterly

Bill To: Lancaster County Solid Waste MA

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

Date Required: _____ Approved By: _____

Email? -Y -N

Fax? -Y -N

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time
1 GWGCKRW 3100 RIVER RD	5-20-16	1000
2		
3		
4		
5		
6		
7		
8		
9		
10		

Project Comments:

LOGGED BY (signature): *[Signature]*

REVIEWED BY (signature): *[Signature]*

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<i>[Signature]</i>	5-20-16	1350	<i>[Signature]</i>	5-20-16	1350

Container Type	AG	AN	AN	AN	CG	PL	PL	PL	PL	PL	PL	PL
Container Size	40 ml	250 ml	500 ml	500 ml	40 ml	500 ml	500 ml	500 ml	500 ml	500 ml	2 L	500 ml
Preservative	HCl	H2SO4	H2SO4	HCl	HCl	HNO3	HNO3	HNO3	HNO3	HNO3	None	None
Matrix	TOC	TOX	TOX	FM	VOC	NH3-N, COD	Dissolved Metals: Ca, Fe, Mg, Mn, K, Na	K, Na	Metals: Ca, Fe, Mg, Mn, K, Na	PH, TDS, NO2, NO3, Cl, SO4, F, Pb, SPC	Alkalinity, HCO3	

Enter Number of Containers Per Sample or Field Results Below.		Sample/COC Comments																					
1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

ALS Field Services: Pickup Labor
 Composite_Sampling Rental_Equipment
 Other:

Special Processing
 USACE Navy
 State Samples Collected In: NY NJ PA NC

Standard CLP-like USACE
 Deliverables: Reportable to PADEP? Yes No PWSID # _____
 EDDS: Format Type: _____

1 of 1

* 2 1 4 5 4 9 6 *

Cooler Temp: *19C* Therm ID: *TH360*

No. of Coolers: *Y* *N* Initial *USFL*

Custody Seals Present?
 (if present) Seals Intact?
 Received on Ice?
 COC Labels Completed/Accurate?
 Cont. in Good Cond.?
 Correct Containers?
 Correct Sample Volumes?
 Correct Preservation?
 Headspace/Vialities?

Courier/Tracking #:

June 17, 2016

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

Certificate of Analysis

Project Name: 2016-CONTIGUOUS	Workorder: 2147145
Purchase Order:	Workorder ID: 2ND QTR 2016-ACT 101

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, May 27, 2016.

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.

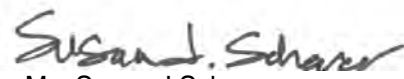
Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications 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: Mr. Mark Reider , 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: 2147145 2ND QTR 2016-ACT 101

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2147145001	3106 River Road, Conestoga, PA	Water	5/27/2016 15:23	5/27/2016 16:41	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 2147145 2ND QTR 2016-ACT 101

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 performed 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.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
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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ANALYTICAL RESULTS

Workorder: 2147145 2ND QTR 2016-ACT 101

Lab ID: **2147145001** Date Collected: 5/27/2016 15:23 Matrix: Water
Sample ID: **3106 River Road, Conestoga, PA** Date Received: 5/27/2016 16:41

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
1,2-Dibromoethane	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
1,1-Dichloroethane	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
1,2-Dichloroethane	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
1,1-Dichloroethene	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
cis-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
trans-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
Methylene Chloride	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
Tetrachloroethene	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
Toluene	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
Total Xylenes	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
1,1,1-Trichloroethane	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
Trichloroethene	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
Trichlorofluoromethane	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
Vinyl Chloride	ND		ug/L	0.50	EPA 524.2			6/9/16 05:55	CJG	J
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichlorobenzene-d4 (S)	93.2		%	70 - 130	EPA 524.2			6/9/16 05:55	CJG	J
4-Bromofluorobenzene (S)	87.4		%	70 - 130	EPA 524.2			6/9/16 05:55	CJG	J
WET CHEMISTRY										
Alkalinity, Bicarbonate	13		mg/L	5	S2320B-97			5/28/16 13:48	MSA	C
Alkalinity, Total	13	1	mg/L	5	S2320B-97			5/28/16 13:48	MSA	C
Ammonia-N	ND		mg/L	0.100	D6919-09			6/9/16 11:49	NJA	B
Chemical Oxygen Demand (COD)	ND		mg/L	5	EPA 410.4			6/15/16 17:45	AK	B
Chloride	55.6		mg/L	2.0	EPA 300.0			5/28/16 16:40	MBW	C
Fluoride	ND		mg/L	0.20	EPA 300.0			5/28/16 16:40	MBW	C
Halogen, Total Organic (TOX)	ND		ug/L	20.0	SW846 9020B			5/31/16 14:52	PAG	I
Nitrate-N	9.5		mg/L	0.20	EPA 300.0			5/28/16 16:40	MBW	C
Nitrite-N	ND		mg/L	0.20	EPA 300.0			5/28/16 16:40	MBW	C
pH	6.33	2	pH_Units		S4500HB-00			5/28/16 13:48	MSA	C
Phenolics	ND		mg/L	0.005	EPA 420.4	6/3/16 08:00	AK	6/7/16 11:30	THB	H
Specific Conductance	277		umhos/cm	1	S2510B-97			5/28/16 13:48	MSA	C
Sulfate	4.5		mg/L	2.0	EPA 300.0			5/28/16 16:40	MBW	C
Total Dissolved Solids	185		mg/L	5	S2540C-11			6/2/16 09:30	KAM	A

ALS Environmental Laboratory Locations Across North America

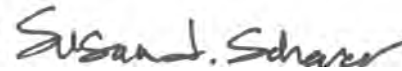
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ANALYTICAL RESULTS

Workorder: 2147145 2ND QTR 2016-ACT 101

Lab ID: **2147145001** Date Collected: 5/27/2016 15:23 Matrix: Water
Sample ID: **3106 River Road, Conestoga, PA** Date Received: 5/27/2016 16:41

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Total Organic Carbon (TOC)	ND		mg/L	1.0	S5310B-00			5/31/16 10:47	PAG	F
Turbidity	1.18		NTU	0.10	S2130B-01			5/28/16 01:54	MSA	C
METALS										
Calcium, Total	13.8		mg/L	0.050	EPA 200.7	5/31/16 07:30	JPS	6/1/16 07:56	TSS	D1
Calcium, Dissolved	13.2		mg/L	0.10	EPA 200.7	5/31/16 20:57	TSS	6/1/16 03:31	TSS	E
Iron, Total	0.072		mg/L	0.030	EPA 200.7	5/31/16 07:30	JPS	6/1/16 07:56	TSS	D1
Iron, Dissolved	ND		mg/L	0.060	EPA 200.7	5/31/16 20:57	TSS	6/1/16 03:31	TSS	E
Magnesium, Total	8.6		mg/L	0.050	EPA 200.7	5/31/16 07:30	JPS	6/1/16 07:56	TSS	D1
Magnesium, Dissolved	8.2		mg/L	0.10	EPA 200.7	5/31/16 20:57	TSS	6/1/16 03:31	TSS	E
Manganese, Total	0.022		mg/L	0.0025	EPA 200.7	5/31/16 07:30	JPS	6/1/16 07:56	TSS	D1
Manganese, Dissolved	0.020		mg/L	0.0050	EPA 200.7	5/31/16 20:57	TSS	6/1/16 03:31	TSS	E
Potassium, Total	1.6		mg/L	0.25	EPA 200.7	5/31/16 07:30	JPS	6/1/16 07:56	TSS	D1
Potassium, Dissolved	1.6		mg/L	0.50	EPA 200.7	5/31/16 20:57	TSS	6/1/16 03:31	TSS	E
Sodium, Total	27.3		mg/L	0.25	EPA 200.7	5/31/16 07:30	JPS	6/1/16 07:56	TSS	D1
Sodium, Dissolved	25.2		mg/L	0.50	EPA 200.7	5/31/16 20:57	TSS	6/1/16 03:31	TSS	E
FIELD PARAMETERS										
pH, Field (SM4500B)	6.330		pH_Units		Field			5/27/16 15:23	BGS	L
Specific Conductance, Field	283		umhos/cm	1	Field			5/27/16 15:23	BGS	L
Temperature	15.40		Deg. C		Field			5/27/16 15:23	BGS	L



Ms. Susan J Scherer
Project Coordinator

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PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2147145001	1	3106 River Road, Conestoga, PA	S2320B-97	Alkalinity, Total
The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO ₃ /L.				
2147145001	2	3106 River Road, Conestoga, PA	S4500HB-00	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.				

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34 Dogwood Lane
 Middletown, PA 17057
 P. 717-944-5541
 F. 717-944-1430

**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**

Page: _____ of _____
 Courier: _____
 Tracking #: _____



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

Co. Name: **LCSWMN**
 Contact (Report to): **Mark Reider**
 Address: _____
 Phone: _____
 PO#: _____

Project Name#: **Cowberry** ALS Quote #: _____
 TAT: Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
 Approved By: _____
 Email? Y N
 Fax? Y N

Sample Description/Location <small>(as it will appear on the lab report)</small>	COC Comments	Sample Date	Military Time
1 3106 RIVER RD		5/21/16	1643
2			
3			
4			
5			
6			
7			
8			

SAMPLED BY: **Rob Stade ALS**
Requisitioned By / Company Name: **Rob Stade ALS**
Date **Time** **Received By / Company Name** **Date** **Time**

1	5-21-16	1641	2	Stade	5/27/16	1644
3			4			
5			6			
7			8			
9			10			

Project Comments: _____

ANALYSES/METHODS REQUESTED

Container Type	AV	AN	AN	CG	PL	PL	PL	PL	PL	PL	PL
Container Size	40	250	500	40	500	500	500	500	500	500	500
Preservative	HCL	H2SO4	H2SO4	HCL	H2SO4	H2SO4	H2SO4	H2SO4	H2SO4	H2SO4	H2SO4
Mark	FOC	TOC	DOB	VOC	NH4-N-COD	Disolved Ca-Fer-Mg-Mn-K-Na	TOTAL Ca-Fer-Mg-Mn-K-Na	PH-TDS-NOR-NDS-C1	SO4-F-TB-SK	AlE-HCO3	FM

Enter Number of Containers Per Analysis

FOC	TOC	DOB	VOC	NH4-N-COD	Disolved Ca-Fer-Mg-Mn-K-Na	TOTAL Ca-Fer-Mg-Mn-K-Na	PH-TDS-NOR-NDS-C1	SO4-F-TB-SK	AlE-HCO3	FM
2	2	1	2	2	1	1	1	1	1	X

ALS FIELD SERVICES

Container in good condition?	N
COC Labels complete/accurate?	N
Received on ice?	N
(If present) Seals intact?	Y
Custody seals Present?	Y

ALS FIELD SERVICES

Pickup	<input type="checkbox"/>
Labor	<input type="checkbox"/>
Composite Sampling	<input type="checkbox"/>
Rental Equipment	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Notes: _____
 No. of Coolers: _____
 Them. ID: **3106**
 Cooler Temp: **3-2**
 Correct sample volume? **Y**
 Correct preservation? **Y**
 Headspace/Volatiles? **Y**
 Container appropriate Y or N: **Y**

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY
 * G=Grab, C=Composite
 **Matrix: A=Air, DW=Drinking Water, GW=Groundwater, O=Oil; Q=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
 ***Container Type: AB=Amber Glass; CG=Clear Glass; PL=Plastic. Container Size: 250ml, 500ml, 1L, 500ml, 1L, 500ml, etc. Preservative: HCL, HNO3, NaOH, etc.
 Rev 01-2013

June 13, 2016

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

Certificate of Analysis

Project Name: 2016-CONTIGUOUS	Workorder: 2145500
Purchase Order:	Workorder ID: 2ND QTR 2016-3125 RIVER RD

Dear Mr. Brown:

Enclosed are the analytical results for samples received by the laboratory on Friday, May 20, 2016.

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.

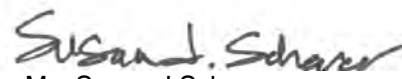
Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications 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: Mr. Mark Reider , Landowner , Mr. Jeff Musser

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Ms. Susan J Scherer
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2145500 2ND QTR 2016-3125 RIVER RD

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2145500001	3125 River Road, Conestoga, PA	Water	5/20/2016 11:10	5/20/2016 13:58	Mr. Brian G Shade
2145500002	Field Blank	Water	5/20/2016 11:54	5/20/2016 13:58	Mr. Brian G Shade
2145500003	Trip Blank	Water	5/20/2016 13:58	5/20/2016 13:58	Mr. Brian G Shade

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SAMPLE SUMMARY

Workorder: 2145500 2ND QTR 2016-3125 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.
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- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

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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: 2145500 2ND QTR 2016-3125 RIVER RD

Sample Comments

Lab ID: 2145500001

Sample ID: 3125 River Road,
Conestoga, PA

Sample Type: SAMPLE

The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO₃/L.

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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ANALYTICAL RESULTS

Workorder: 2145500 2ND QTR 2016-3125 RIVER RD

 Lab ID: **2145500001** Date Collected: 5/20/2016 11:10 Matrix: Water
 Sample ID: **3125 River Road, Conestoga, PA** Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
1,2-Dibromoethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
1,1-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
1,2-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
1,1-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
cis-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
trans-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
Methylene Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
Tetrachloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
Toluene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
Total Xylenes	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
1,1,1-Trichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
Trichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
Trichlorofluoromethane	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
Vinyl Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 22:51	SYB	K
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichlorobenzene-d4 (S)	85.1		%	70 - 130	EPA 524.2			5/28/16 22:51	SYB	K
4-Bromofluorobenzene (S)	79		%	70 - 130	EPA 524.2			5/28/16 22:51	SYB	K
WET CHEMISTRY										
Alkalinity, Bicarbonate	48		mg/L	5	S2320B-97			5/21/16 06:38	MSA	C
Alkalinity, Total	48		mg/L	5	S2320B-97			5/21/16 06:38	MSA	C
Ammonia-N	ND		mg/L	0.100	D6919-09			6/2/16 06:44	NJA	B
Chemical Oxygen Demand (COD)	11		mg/L	5	EPA 410.4			6/7/16 14:00	NJA	B
Chloride	87.3		mg/L	2.0	EPA 300.0			5/21/16 10:56	MBW	C
Fluoride	ND		mg/L	0.20	EPA 300.0			5/21/16 10:56	MBW	C
Halogen, Total Organic (TOX)	ND		ug/L	20.0	SW846 9020B			5/26/16 14:26	PAG	I
Nitrate-N	7.5		mg/L	0.20	EPA 300.0			5/21/16 10:56	MBW	C
Nitrite-N	ND		mg/L	0.20	EPA 300.0			5/21/16 10:56	MBW	C
pH	6.74		pH_Units		S4500HB-00			5/21/16 06:38	MSA	C
Phenolics	ND		mg/L	0.005	EPA 420.4	5/25/16 08:20	AK	5/30/16 14:17	JLG	H
Specific Conductance	457		umhos/cm	1	S2510B-97			5/21/16 06:38	MSA	C
Sulfate	8.0		mg/L	2.0	EPA 300.0			5/21/16 10:56	MBW	C
Total Dissolved Solids	282		mg/L	5	S2540C-11			5/27/16 14:45	KAM	A

ALS Environmental Laboratory Locations Across North America

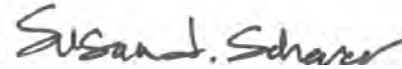
 Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
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ANALYTICAL RESULTS

Workorder: 2145500 2ND QTR 2016-3125 RIVER RD

Lab ID: **2145500001** Date Collected: 5/20/2016 11:10 Matrix: Water
Sample ID: **3125 River Road, Conestoga, PA** Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Total Organic Carbon (TOC)	ND		mg/L	1.0	S5310B-00			5/23/16 10:40	PAG	F
Turbidity	ND		NTU	0.10	S2130B-01			5/21/16 04:37	MSA	C
METALS										
Calcium, Total	0.053		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:23	TSS	D1
Calcium, Dissolved	0.13		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:42	TSS	E
Iron, Total	ND		mg/L	0.030	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:23	TSS	D1
Iron, Dissolved	ND		mg/L	0.060	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:42	TSS	E
Magnesium, Total	ND		mg/L	0.050	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:23	TSS	D1
Magnesium, Dissolved	ND		mg/L	0.10	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:42	TSS	E
Manganese, Total	ND		mg/L	0.0025	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:23	TSS	D1
Manganese, Dissolved	ND		mg/L	0.0050	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:42	TSS	E
Potassium, Total	1.5		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:23	TSS	D1
Potassium, Dissolved	1.6		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:42	TSS	E
Sodium, Total	88.8		mg/L	0.25	EPA 200.7	5/23/16 08:15	JPS	5/24/16 22:23	TSS	D1
Sodium, Dissolved	91.9		mg/L	0.50	EPA 200.7	5/20/16 17:14	TSS	5/24/16 16:42	TSS	E
FIELD PARAMETERS										
pH, Field (SM4500B)	5.540		pH_Units		Field			5/20/16 11:10	BGS	N
Specific Conductance, Field	461		umhos/cm	1	Field			5/20/16 11:10	BGS	N
Temperature	18.60		Deg. C		Field			5/20/16 11:10	BGS	N



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ANALYTICAL RESULTS

Workorder: 2145500 2ND QTR 2016-3125 RIVER RD

Lab ID: **2145500002**

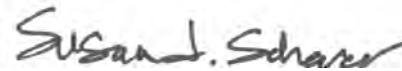
Date Collected: 5/20/2016 11:54

Matrix: Water

Sample ID: **Field Blank**

Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
1,2-Dibromoethane	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
1,1-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
1,2-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
1,1-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
cis-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
trans-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
Methylene Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
Tetrachloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
Toluene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
Total Xylenes	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
1,1,1-Trichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
Trichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
Trichlorofluoromethane	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
Vinyl Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 20:38	SYB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichlorobenzene-d4 (S)	84.3		%	70 - 130	EPA 524.2			5/28/16 20:38	SYB	A
4-Bromofluorobenzene (S)	79.2		%	70 - 130	EPA 524.2			5/28/16 20:38	SYB	A



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ANALYTICAL RESULTS

Workorder: 2145500 2ND QTR 2016-3125 RIVER RD

Lab ID: **2145500003**

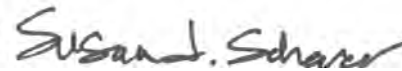
Date Collected: 5/20/2016 13:58

Matrix: Water

Sample ID: **Trip Blank**

Date Received: 5/20/2016 13:58

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
1,2-Dibromoethane	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
1,1-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
1,2-Dichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
1,1-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
cis-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
trans-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
Methylene Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
Tetrachloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
Toluene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
Total Xylenes	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
1,1,1-Trichloroethane	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
Trichloroethene	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
Trichlorofluoromethane	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
Vinyl Chloride	ND		ug/L	0.50	EPA 524.2			5/28/16 20:15	SYB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichlorobenzene-d4 (S)	82.7		%	70 - 130	EPA 524.2			5/28/16 20:15	SYB	A
4-Bromofluorobenzene (S)	80.1		%	70 - 130	EPA 524.2			5/28/16 20:15	SYB	A



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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

34 Dogwood Lane • Middlestown, PA 17057 • Fax: 717-944-5541 • Fax: 717-944-1430

Client Name: LCSWMA - Christian C. Beck
 Address: 3125 River Road
 Conesoga, PA 17516
 Contact: Christian C. Beck
 Phone#: (717) 871-0448
 Project Name#: LCSWMA - Quarterly
 Bill To: Lancaster County Solid Waste MA

TAT Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
 Date Required: _____ Approved By: _____
 Email? -Y -N
 Fax? -Y -N

Container Type	AG	AN	AN	CG	PL	PL	PL	PL	PL	PL	PL
40 ml	40 ml	500 ml	500 ml	40 ml	500 ml	500 ml	500 ml	500 ml	500 ml	2 L	500 ml
Preservative	HCl	H2SO4	H2SO4	HCl	HNO3	HNO3	HNO3	HNO3	HNO3	None	None

Matrix	TOC	TOX	O-OH	VOC	FM	NH3-N, COD	Dissolved Metals: Ca, Fe, Mg, Mn, K, Na	Metals: Ca, Fe, Mg, Mn, K, Na	pH, TDS, NO2, NO3, Cl, SO4, F, TB, SpC	Alkalinity, HCO3
G DW	2	2	1	2	1	1	1	1	1	1

Sample Date	Time
5-20-16	1140
1154	
1258	

Sample Description/Location	Sample Date	Time
1 GWGGBAW 3125 RIVER RD	5-20-16	1140
2 Field Blank	1154	
3 Trip Blank	1258	
4		
5		
6		
7		
8		
9		
10		

Project Comments: _____
 Relinquished By / Company Name: _____
 Date: 5-20-16 1358
 Received By / Company Name: _____
 Date: 5/20/16 1358

ALS Field Services: Pickup Labor
 Composite_Sampling Rental_Equipment
 Other: _____

Special Processing: USACE Navy
 State Samples Collected In: NY NJ PA NC
 Reportable to PADEP? Yes No
 PWSID #: _____
 EDDS: Format Type: _____