



LANCASTER COUNTY
SOLID WASTE MANAGEMENT
AUTHORITY

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January 3, 2011

Mr. Tom Miller; Regional Hydrogeologist
Pennsylvania Department of Environmental Protection
Bureau of Waste Management
909 Elmerton Avenue
Harrisburg, PA 17110-8200

REF: Private Water Supply
Quarterly Water Quality Analysis
Frey Farm Landfill; BWM Permit #101389

Dear Mr. Miller:

As required by the Pennsylvania Department of Environmental Protection, the Lancaster County Solid Waste Management Authority (LCSWMA) continues the above referenced water quality monitoring program. Enclosed are the reports for the Fourth Quarter 2010 sampling event in electronic format (per the CD containing the file CWCG1110.csv; which should be compatible for importing the data into your LandLinks software).

The laboratory data was reviewed to analyze for changes or trends that may be apparent and as a quality assurance check of the information. In summary:

(A) General

- All of the eight (8) privately owned contiguous locations were sampled
- Additionally, three (3) LCSWMA-owned locations were sampled

(B) VOCs

- There were no Form 52 volatile organic compounds (VOC) detects to report from any of the monitored locations.

Private Water Supply

Quarterly Water Quality Analysis

January 3, 2011

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(C) Water Quality Indicators

- All monitored parameters at the eleven (11) sampled locations were generally typical of historical and/or seasonal results.

LCSWMA will continue to sample, review and report this information on a quarterly basis with our next sampling currently scheduled to occur in February 2011. Feel free to call if you have any questions or require additional information in any regard.

Sincerely,



Emily S. Kauffman
Environmental Compliance Manager

Enclosures

cc: Bob Zorbaugh, Bob Eshbach, Brooks Norris
John Spang (PaDEP w/Forms 52)
Ed Rawski (PaDEP)
Randy Weiss (PaDEP)


 Date Prepared/Revised
 01/03/2011

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: Creswell Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Creswell Landfill

County: Lancaster County

Township or Municipality: Manor Township

Landowner Name: CHRIS & ELIZABETH 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 Bailed

 Well Purged: Yes No

Well Volumes Purged:

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

Sample Date:(mm/dd/yy) 11/18/2010

Sample Collection Time: 12:23 PM

Laboratory(ies) Performing Analysis Analytical Laboratory Services, Inc.

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

11/24/2010

 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 CWCGBCKW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|------------------------------|--------|------------------------|
| AMMONIA-NITROGEN | 0.1 ND | SM 4500D |
| BICARBONATE | 58 | SM 2321 |
| CALCIUM, TOTAL | 0.15 | EPA 200.7 |
| CALCIUM, DISSOLVED | 0.2 | EPA 200.7 |
| COD (CHEMICAL OXYGEN DEMAND) | 15 ND | EPA 410.4 |
| CHLORIDE | 79.1 | 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 | 0.067 | EPA 200.7 |
| MAGNESIUM, DISSOLVED | 0.1 ND | EPA 200.7 |
| MANGANESE, TOTAL (ug/l) | 5 ND | EPA 200.7 |
| MANGANESE, DISSOLVED (ug/l) | 5 ND | EPA 200.7 |
| NITRATE-NITROGEN | 15.7 | EPA 300 |

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGBCKW

Sample Date

11/18/2010

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) | 6.07 | FIELD |
| pH-LAB (SU) | 6.64 | SM 4500B |
| POTASSIUM, TOTAL | 1.6 | EPA 200.7 |
| POTASSIUM, DISSOLVED | 1.4 | EPA 200.7 |
| SODIUM, TOTAL | 106 | EPA 200.7 |
| SODIUM, DISSOLVED | 101 | EPA 200.7 |
| SPEC. COND., FIELD (umhos/cm) | 457 | FIELD |
| SPEC. COND., LAB (umhos/cm) | 474 | EPA 120.1 |
| SULFATE | 5.5 | EPA 300 |
| ALKALINITY | 58 | SM 2320B |
| TDS (TOTAL DISSOLVED SOLIDS) | 302 | SM 2540C |
| TOC (TOTAL ORGANIC CARBON) | 1 ND | SM 5310B |
| TOTAL PHENOLICS (ug/l) | 10 ND | EPA 420.4 |
| TURBIDITY (NTU) | 0.93 | 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 CWCGBCKW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|-----------------------------------|--------|------------------------|
| BENZENE | 0.5 ND | EPA 524.2 |
| 1,2-DIBROMOETHANE (EDB) (ETHYLENE | 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 |
| TRICHLOROFUOROMETHANE | 0.5 ND | EPA 524.2 |
| VINYL CHLORIDE | 0.5 ND | EPA 524.2 |
| XYLENES (TOTAL) | 1.5 ND | EPA 524.2 |

T Please indicate detection limit if analyte is not detected.


 Date Prepared/Revised
 01/03/2011

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: | Creswell Landfill |
| Facility ID (as issued by DEP): | 101389 |
| SECTION B. PRIVATE WATER SUPPLY INFORMATION | |
| INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S") | |
| Facility Name: | Creswell Landfill |
| County: | Lancaster County |
| Township or Municipality: | Manor Township |
| Landowner Name: | BRIAN BYERS |
| Address: | 3088 River Road |
| Phone No.: | |
| Sampling Point: | Latitude: 39° 57' 21" Longitude: 76° 26' 7.1" |
| Depth to Water Level: | ft. Measured from: <input checked="" type="checkbox"/> Land Surface <input type="checkbox"/> TOC |
| Casing Stick Up: | ft. Elevation of Water Level: _____ ft./MSL |
| Total Well Depth: | ft. |
| Sampling Depth: | ft. Sampling Method: <input type="checkbox"/> Pumped <input type="checkbox"/> Bailed |
| Well Purged: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Volumes Purged: _____ |
| Sample Field Filtered (must be 0.45 micron)?: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Date:(mm/dd/yy) | 11/18/2010 Sample Collection Time: 12:05 PM |
| Laboratory(ies) Performing Analysis | Analytical Laboratory Services, Inc. |
| (include address and phone number) | 34 Dogwood Lane Middletown, PA 17057 (717) 944-5541 |
| Lab Accreditation Number(s) | 22-293 |
| Lab Analysis Date | 11/24/2010 |
| Were any holding times exceeded?: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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 CWCGFELW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|------------------------------|--------|------------------------|
| AMMONIA-NITROGEN | 0.1 ND | SM 4500D |
| BICARBONATE | 15 | SM 2321 |
| CALCIUM, TOTAL | 28.7 | EPA 200.7 |
| CALCIUM, DISSOLVED | 30 | EPA 200.7 |
| COD (CHEMICAL OXYGEN DEMAND) | 15 ND | EPA 410.4 |
| CHLORIDE | 57.5 | EPA 300 |
| FLUORIDE | 0.2 ND | EPA 300 |
| IRON, TOTAL (ug/l) | 30 ND | EPA 200.7 |
| IRON, DISSOLVED (ug/l) | 60 ND | EPA 200.7 |
| MAGNESIUM, TOTAL | 10.1 | EPA 200.7 |
| MAGNESIUM, DISSOLVED | 10.2 | EPA 200.7 |
| MANGANESE, TOTAL (ug/l) | 57 | EPA 200.7 |
| MANGANESE, DISSOLVED (ug/l) | 64 | EPA 200.7 |
| NITRATE-NITROGEN | 13 | EPA 300 |

T Please indicate detection limit if analyte is not detected.

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PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGFELW

Sample Date

11/18/2010

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) | 5.78 | FIELD |
| pH-LAB (SU) | 6.1 | SM 4500B |
| POTASSIUM, TOTAL | 2.7 | EPA 200.7 |
| POTASSIUM, DISSOLVED | 2.4 | EPA 200.7 |
| SODIUM, TOTAL | 22.8 | EPA 200.7 |
| SODIUM, DISSOLVED | 23.2 | EPA 200.7 |
| SPEC. COND., FIELD (umhos/cm) | 384 | FIELD |
| SPEC. COND., LAB (umhos/cm) | 384 | EPA 120.1 |
| SULFATE | 33.6 | EPA 300 |
| ALKALINITY | 15 | SM 2320B |
| TDS (TOTAL DISSOLVED SOLIDS) | 247 | SM 2540C |
| TOC (TOTAL ORGANIC CARBON) | 1 ND | SM 5310B |
| TOTAL PHENOLICS (ug/l) | 10 ND | EPA 420.4 |
| TURBIDITY (NTU) | 0.91 | SM 2130B |

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PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGFELW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|-----------------------------------|--------|------------------------|
| BENZENE | 0.5 ND | EPA 524.2 |
| 1,2-DIBROMOETHANE (EDB) (ETHYLENE | 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) | 1.5 ND | EPA 524.2 |

T Please indicate detection limit if analyte is not detected.


 Date Prepared/Revised
 01/03/2011

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: Creswell Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Creswell Landfill

County: Lancaster County

Township or Municipality: Manor Township

Landowner Name: MRS. VERNA M. GRAVER

Address: 3060 River Road

Phone No.:

Sampling Point: Latitude: 39° 57' 27.4" Longitude: 76° 26' 10.7"

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) 11/18/2010

Sample Collection Time: 11:45 AM

Laboratory(ies) Performing Analysis Analytical Laboratory Services, Inc.

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

11/24/2010

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 CWCGGRAW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|------------------------------|--------|------------------------|
| AMMONIA-NITROGEN | 0.1 ND | SM 4500D |
| BICARBONATE | 11 | SM 2321 |
| CALCIUM, TOTAL | 12.7 | EPA 200.7 |
| CALCIUM, DISSOLVED | 11.6 | EPA 200.7 |
| COD (CHEMICAL OXYGEN DEMAND) | 15 ND | EPA 410.4 |
| CHLORIDE | 22.3 | EPA 300 |
| FLUORIDE | 0.2 ND | EPA 300 |
| IRON, TOTAL (ug/l) | 43 | EPA 200.7 |
| IRON, DISSOLVED (ug/l) | 60 ND | EPA 200.7 |
| MAGNESIUM, TOTAL | 16.9 | EPA 200.7 |
| MAGNESIUM, DISSOLVED | 13.6 | EPA 200.7 |
| MANGANESE, TOTAL (ug/l) | 110 | EPA 200.7 |
| MANGANESE, DISSOLVED (ug/l) | 100 | EPA 200.7 |
| NITRATE-NITROGEN | 19.1 | EPA 300 |

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FORM 52
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PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGGRAW

Sample Date

11/18/2010

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) | 5.77 | FIELD |
| pH-LAB (SU) | 5.95 | SM 4500B |
| POTASSIUM, TOTAL | 3.2 | EPA 200.7 |
| POTASSIUM, DISSOLVED | 2.9 | EPA 200.7 |
| SODIUM, TOTAL | 9.6 | EPA 200.7 |
| SODIUM, DISSOLVED | 10.2 | EPA 200.7 |
| SPEC. COND., FIELD (umhos/cm) | 249 | FIELD |
| SPEC. COND., LAB (umhos/cm) | 262 | EPA 120.1 |
| SULFATE | 9.7 | EPA 300 |
| ALKALINITY | 11 | SM 2320B |
| TDS (TOTAL DISSOLVED SOLIDS) | 113 | SM 2540C |
| TOC (TOTAL ORGANIC CARBON) | 1 ND | SM 5310B |
| TOTAL PHENOLICS (ug/l) | 10 ND | EPA 420.4 |
| TURBIDITY (NTU) | 2.08 | 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 CWCGGRAW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|-----------------------------------|--------|------------------------|
| BENZENE | 0.5 ND | EPA 524.2 |
| 1,2-DIBROMOETHANE (EDB) (ETHYLENE | 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 |
| TRICHLOROFUOROMETHANE | 0.5 ND | EPA 524.2 |
| VINYL CHLORIDE | 0.5 ND | EPA 524.2 |
| XYLENES (TOTAL) | 1.5 ND | EPA 524.2 |

T Please indicate detection limit if analyte is not detected.


 Date Prepared/Revised
 01/03/2011

DEP USE ONLY

Date Received

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MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
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| General Reference: Act 101 Section 1103 | |
| SECTION A. SITE IDENTIFIER | |
| Applicant/permittee: | Lancaster County Solid Waste Manage |
| Site Name: | Creswell Landfill |
| Facility ID (as issued by DEP): | 101389 |
| SECTION B. PRIVATE WATER SUPPLY INFORMATION | |
| INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S") | |
| Facility Name: | Creswell Landfill |
| County: | Lancaster County |
| Township or Municipality: | Manor Township |
| Landowner Name: | DAVID C. & PATRICIA S. HILL |
| 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: <input checked="" type="checkbox"/> Land Surface <input type="checkbox"/> TOC |
| Casing Stick Up: | ft. Elevation of Water Level: _____ ft./MSL |
| Total Well Depth: | ft. |
| Sampling Depth: | ft. Sampling Method: <input type="checkbox"/> Pumped <input type="checkbox"/> Bailed |
| Well Purged: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Volumes Purged: _____ |
| Sample Field Filtered (must be 0.45 micron)?: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Date:(mm/dd/yy) | 11/18/2010 Sample Collection Time: 12:14 PM |
| Laboratory(ies) Performing Analysis | Analytical Laboratory Services, Inc. |
| (include address and phone number) | 34 Dogwood Lane Middletown, PA 17057 (717) 944-5541 |
| Lab Accreditation Number(s) | 22-293 |
| Lab Analysis Date | 11/24/2010 |
| Were any holding times exceeded?: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 CWCGHILW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|------------------------------|--------|------------------------|
| AMMONIA-NITROGEN | 0.1 ND | SM 4500D |
| BICARBONATE | 10 | SM 2321 |
| CALCIUM, TOTAL | 16 | EPA 200.7 |
| CALCIUM, DISSOLVED | 15.3 | EPA 200.7 |
| COD (CHEMICAL OXYGEN DEMAND) | 15 ND | EPA 410.4 |
| CHLORIDE | 55.3 | EPA 300 |
| FLUORIDE | 0.1 ND | EPA 300 |
| IRON, TOTAL (ug/l) | 63 | EPA 200.7 |
| IRON, DISSOLVED (ug/l) | 60 ND | EPA 200.7 |
| MAGNESIUM, TOTAL | 11.6 | EPA 200.7 |
| MAGNESIUM, DISSOLVED | 9.5 | EPA 200.7 |
| MANGANESE, TOTAL (ug/l) | 35 | EPA 200.7 |
| MANGANESE, DISSOLVED (ug/l) | 32 | EPA 200.7 |
| NITRATE-NITROGEN | 18.9 | EPA 300 |

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PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

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PS CWCGHILW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|-------------------------------|--------|------------------------|
| NITRITE-NITROGEN | 0.1 ND | EPA 300 |
| pH-FIELD (SU) | 5.81 | FIELD |
| pH-LAB (SU) | 6.02 | SM 4500B |
| POTASSIUM, TOTAL | 1.8 | EPA 200.7 |
| POTASSIUM, DISSOLVED | 1.7 | EPA 200.7 |
| SODIUM, TOTAL | 37.7 | EPA 200.7 |
| SODIUM, DISSOLVED | 33.4 | EPA 200.7 |
| SPEC. COND., FIELD (umhos/cm) | 354 | FIELD |
| SPEC. COND., LAB (umhos/cm) | 365 | EPA 120.1 |
| SULFATE | 7.1 | EPA 300 |
| ALKALINITY | 10 | SM 2320B |
| TDS (TOTAL DISSOLVED SOLIDS) | 244 | SM 2540C |
| TOC (TOTAL ORGANIC CARBON) | 1 ND | SM 5310B |
| TOTAL PHENOLICS (ug/l) | 10 ND | EPA 420.4 |
| TURBIDITY (NTU) | 0.78 | 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 CWCGHILW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|-----------------------------------|--------|------------------------|
| BENZENE | 0.5 ND | EPA 524.2 |
| 1,2-DIBROMOETHANE (EDB) (ETHYLENE | 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) | 1.5 ND | EPA 524.2 |

T Please indicate detection limit if analyte is not detected.


 Date Prepared/Revised
 01/03/2011

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: | Creswell Landfill |
| Facility ID (as issued by DEP): | 101389 |
| SECTION B. PRIVATE WATER SUPPLY INFORMATION | |
| INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S") | |
| Facility Name: | Creswell Landfill |
| County: | Lancaster County |
| Township or Municipality: | Manor Township |
| Landowner Name: | LARRY & ANN KIRCHNER |
| Address: | 3100 River Road |
| Phone No.: | |
| Sampling Point: | Latitude: <u>39° 57' 17.9"</u> Longitude: <u>76° 26' 6.28"</u> |
| Depth to Water Level: | ft. Measured from: <input checked="" type="checkbox"/> Land Surface <input type="checkbox"/> TOC |
| Casing Stick Up: | ft. Elevation of Water Level: _____ ft./MSL |
| Total Well Depth: | ft. |
| Sampling Depth: | ft. Sampling Method: <input type="checkbox"/> Pumped <input type="checkbox"/> Bailed |
| Well Purged: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Volumes Purged: _____ |
| Sample Field Filtered (must be 0.45 micron)?: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Date:(mm/dd/yy) | <u>11/16/2010</u> Sample Collection Time: <u>11:57 AM</u> |
| Laboratory(ies) Performing Analysis | Analytical Laboratory Services, Inc. |
| (include address and phone number) | 34 Dogwood Lane Middletown, PA 17057 (717) 944-5541 |
| Lab Accreditation Number(s) | 22-293 |
| Lab Analysis Date | 11/23/2010 |
| Were any holding times exceeded?: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 CWCGKIRW

Sample Date

11/16/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|------------------------------|--------|------------------------|
| AMMONIA-NITROGEN | 0.1 ND | SM 4500D |
| BICARBONATE | 24 | SM 2321 |
| CALCIUM, TOTAL | 20.5 | EPA 200.7 |
| CALCIUM, DISSOLVED | 20.1 | EPA 200.7 |
| COD (CHEMICAL OXYGEN DEMAND) | 15 ND | EPA 410.4 |
| CHLORIDE | 29 | 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 | 10.7 | EPA 200.7 |
| MAGNESIUM, DISSOLVED | 9 | EPA 200.7 |
| MANGANESE, TOTAL (ug/l) | 19 | EPA 200.7 |
| MANGANESE, DISSOLVED (ug/l) | 20 | EPA 200.7 |
| NITRATE-NITROGEN | 12.8 | EPA 300 |

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGKIRW

Sample Date

11/16/2010

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) | 6.54 | FIELD |
| pH-LAB (SU) | 6.27 | SM 4500B |
| POTASSIUM, TOTAL | 1.7 | EPA 200.7 |
| POTASSIUM, DISSOLVED | 1.5 | EPA 200.7 |
| SODIUM, TOTAL | 14 | EPA 200.7 |
| SODIUM, DISSOLVED | 14.6 | EPA 200.7 |
| SPEC. COND., FIELD (umhos/cm) | 320 | FIELD |
| SPEC. COND., LAB (umhos/cm) | 269 | EPA 120.1 |
| SULFATE | 14.2 | EPA 300 |
| ALKALINITY | 24 | SM 2320B |
| TDS (TOTAL DISSOLVED SOLIDS) | 166 | SM 2540C |
| TOC (TOTAL ORGANIC CARBON) | 1 ND | SM 5310B |
| TOTAL PHENOLICS (ug/l) | 10 ND | EPA 420.4 |
| TURBIDITY (NTU) | 0.13 | 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 CWCGKIRW

Sample Date

11/16/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|-----------------------------------|--------|------------------------|
| BENZENE | 0.5 ND | EPA 524.2 |
| 1,2-DIBROMOETHANE (EDB) (ETHYLENE | 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) | 1.5 ND | EPA 524.2 |

T Please indicate detection limit if analyte is not detected.



Date Prepared/Revised

01/03/2011

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: Creswell Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

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

Facility Name: Creswell Landfill

County: Lancaster County

Township or Municipality: Manor Township

Landowner Name: GERALD E., SR & JUDITH MILLE

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) 11/18/2010

Sample Collection Time: 11:32 AM

Laboratory(ies) Performing Analysis Analytical Laboratory Services, Inc.

(include address and phone number) 34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 11/24/2010

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 CWCGMILW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|------------------------------|--------|------------------------|
| AMMONIA-NITROGEN | 0.1 ND | SM 4500D |
| BICARBONATE | 6 | SM 2321 |
| CALCIUM, TOTAL | 14.8 | EPA 200.7 |
| CALCIUM, DISSOLVED | 15.3 | EPA 200.7 |
| COD (CHEMICAL OXYGEN DEMAND) | 15 ND | EPA 410.4 |
| CHLORIDE | 19.4 | EPA 300 |
| FLUORIDE | 0.1 ND | EPA 300 |
| IRON, TOTAL (ug/l) | 30 ND | EPA 200.7 |
| IRON, DISSOLVED (ug/l) | 60 ND | EPA 200.7 |
| MAGNESIUM, TOTAL | 11 | EPA 200.7 |
| MAGNESIUM, DISSOLVED | 11.2 | EPA 200.7 |
| MANGANESE, TOTAL (ug/l) | 51 | EPA 200.7 |
| MANGANESE, DISSOLVED (ug/l) | 55 | 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 CWCGMILW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|-------------------------------|--------|------------------------|
| NITRITE-NITROGEN | 0.1 ND | EPA 300 |
| pH-FIELD (SU) | 5.32 | FIELD |
| pH-LAB (SU) | 5.88 | SM 4500B |
| POTASSIUM, TOTAL | 2 | EPA 200.7 |
| POTASSIUM, DISSOLVED | 1.9 | EPA 200.7 |
| SODIUM, TOTAL | 7.4 | EPA 200.7 |
| SODIUM, DISSOLVED | 8.1 | EPA 200.7 |
| SPEC. COND., FIELD (umhos/cm) | 231 | FIELD |
| SPEC. COND., LAB (umhos/cm) | 244 | EPA 120.1 |
| SULFATE | 1 ND | EPA 300 |
| ALKALINITY | 6 | SM 2320B |
| TDS (TOTAL DISSOLVED SOLIDS) | 154 | SM 2540C |
| TOC (TOTAL ORGANIC CARBON) | 1 ND | SM 5310B |
| TOTAL PHENOLICS (ug/l) | 10 ND | EPA 420.4 |
| TURBIDITY (NTU) | 0.82 | 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 CWCGMILW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|-----------------------------------|--------|------------------------|
| BENZENE | 0.5 ND | EPA 524.2 |
| 1,2-DIBROMOETHANE (EDB) (ETHYLENE | 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) | 1.5 ND | EPA 524.2 |

T Please indicate detection limit if analyte is not detected.


 Date Prepared/Revised
 01/03/2011

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: | Creswell Landfill |
| Facility ID (as issued by DEP): | 101389 |
| SECTION B. PRIVATE WATER SUPPLY INFORMATION | |
| INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S") | |
| Facility Name: | Creswell Landfill |
| County: | Lancaster County |
| Township or Municipality: | Manor Township |
| Landowner Name: | MR. BRIAN 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: <input checked="" type="checkbox"/> Land Surface <input type="checkbox"/> TOC |
| Casing Stick Up: | ft. Elevation of Water Level: _____ ft./MSL |
| Total Well Depth: | ft. |
| Sampling Depth: | ft. Sampling Method: <input type="checkbox"/> Pumped <input type="checkbox"/> Bailed |
| Well Purged: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Volumes Purged: _____ |
| Sample Field Filtered (must be 0.45 micron)?: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Date:(mm/dd/yy) | 11/18/2010 Sample Collection Time: 11:58 AM |
| Laboratory(ies) Performing Analysis | Analytical Laboratory Services, Inc. |
| (include address and phone number) | 34 Dogwood Lane Middletown, PA 17057 (717) 944-5541 |
| Lab Accreditation Number(s) | 22-293 |
| Lab Analysis Date | 11/24/2010 |
| Were any holding times exceeded?: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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 CWCGSCHW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|------------------------------|--------|------------------------|
| AMMONIA-NITROGEN | 0.1 ND | SM 4500D |
| BICARBONATE | 8 | SM 2321 |
| CALCIUM, TOTAL | 14.9 | EPA 200.7 |
| CALCIUM, DISSOLVED | 15.5 | EPA 200.7 |
| COD (CHEMICAL OXYGEN DEMAND) | 15 ND | EPA 410.4 |
| CHLORIDE | 42.7 | EPA 300 |
| FLUORIDE | 0.2 ND | EPA 300 |
| IRON, TOTAL (ug/l) | 30 ND | EPA 200.7 |
| IRON, DISSOLVED (ug/l) | 60 ND | EPA 200.7 |
| MAGNESIUM, TOTAL | 8.6 | EPA 200.7 |
| MAGNESIUM, DISSOLVED | 8.8 | EPA 200.7 |
| MANGANESE, TOTAL (ug/l) | 190 | EPA 200.7 |
| MANGANESE, DISSOLVED (ug/l) | 210 | EPA 200.7 |
| NITRATE-NITROGEN | 11.5 | 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 CWCGSCHW

Sample Date

11/18/2010

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) | 5.55 | FIELD |
| pH-LAB (SU) | 5.95 | SM 4500B |
| POTASSIUM, TOTAL | 3.1 | EPA 200.7 |
| POTASSIUM, DISSOLVED | 2.8 | EPA 200.7 |
| SODIUM, TOTAL | 18.4 | EPA 200.7 |
| SODIUM, DISSOLVED | 18.7 | EPA 200.7 |
| SPEC. COND., FIELD (umhos/cm) | 260 | FIELD |
| SPEC. COND., LAB (umhos/cm) | 273 | EPA 120.1 |
| SULFATE | 13.8 | EPA 300 |
| ALKALINITY | 8 | SM 2320B |
| TDS (TOTAL DISSOLVED SOLIDS) | 192 | SM 2540C |
| TOC (TOTAL ORGANIC CARBON) | 1 ND | SM 5310B |
| TOTAL PHENOLICS (ug/l) | 10 ND | EPA 420.4 |
| TURBIDITY (NTU) | 0.69 | 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 CWCGSCHW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|-----------------------------------|--------|------------------------|
| BENZENE | 0.5 ND | EPA 524.2 |
| 1,2-DIBROMOETHANE (EDB) (ETHYLENE | 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) | 1.5 ND | EPA 524.2 |

T Please indicate detection limit if analyte is not detected.


 Date Prepared/Revised
 01/03/2011

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: | Creswell Landfill |
| Facility ID (as issued by DEP): | 101389 |
| SECTION B. PRIVATE WATER SUPPLY INFORMATION | |
| INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S") | |
| Facility Name: | Creswell Landfill |
| County: | Lancaster County |
| Township or Municipality: | Manor Township |
| Landowner Name: | NELSON L. & NANCY E. 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: <input checked="" type="checkbox"/> Land Surface <input type="checkbox"/> TOC |
| Casing Stick Up: | ft. Elevation of Water Level: _____ ft./MSL |
| Total Well Depth: | ft. |
| Sampling Depth: | ft. Sampling Method: <input type="checkbox"/> Pumped <input type="checkbox"/> Bailed |
| Well Purged: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Volumes Purged: _____ |
| Sample Field Filtered (must be 0.45 micron)?: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Date:(mm/dd/yy) | 11/18/2010 Sample Collection Time: 11:21 AM |
| Laboratory(ies) Performing Analysis | Analytical Laboratory Services, Inc. |
| (include address and phone number) | 34 Dogwood Lane Middletown, PA 17057 (717) 944-5541 |
| Lab Accreditation Number(s) | 22-293 |
| Lab Analysis Date | 11/24/2010 |
| Were any holding times exceeded?: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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 CWCGSMIW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|------------------------------|--------|------------------------|
| AMMONIA-NITROGEN | 0.1 ND | SM 4500D |
| BICARBONATE | 9 | SM 2321 |
| CALCIUM, TOTAL | 14.9 | EPA 200.7 |
| CALCIUM, DISSOLVED | 14.8 | EPA 200.7 |
| COD (CHEMICAL OXYGEN DEMAND) | 15 ND | EPA 410.4 |
| CHLORIDE | 17.7 | EPA 300 |
| FLUORIDE | 0.1 ND | EPA 300 |
| IRON, TOTAL (ug/l) | 30 ND | EPA 200.7 |
| IRON, DISSOLVED (ug/l) | 60 ND | EPA 200.7 |
| MAGNESIUM, TOTAL | 11.7 | EPA 200.7 |
| MAGNESIUM, DISSOLVED | 11.5 | EPA 200.7 |
| MANGANESE, TOTAL (ug/l) | 29 | EPA 200.7 |
| MANGANESE, DISSOLVED (ug/l) | 34 | 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 CWCGSMIW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|-------------------------------|--------|------------------------|
| NITRITE-NITROGEN | 0.1 ND | EPA 300 |
| pH-FIELD (SU) | 5.92 | FIELD |
| pH-LAB (SU) | 6.04 | SM 4500B |
| POTASSIUM, TOTAL | 1.9 | EPA 200.7 |
| POTASSIUM, DISSOLVED | 1.8 | EPA 200.7 |
| SODIUM, TOTAL | 9.7 | EPA 200.7 |
| SODIUM, DISSOLVED | 9.5 | EPA 200.7 |
| SPEC. COND., FIELD (umhos/cm) | 236 | FIELD |
| SPEC. COND., LAB (umhos/cm) | 248 | EPA 120.1 |
| SULFATE | 1 ND | EPA 300 |
| ALKALINITY | 9 | SM 2320B |
| TDS (TOTAL DISSOLVED SOLIDS) | 183 | SM 2540C |
| TOC (TOTAL ORGANIC CARBON) | 1 ND | SM 5310B |
| TOTAL PHENOLICS (ug/l) | 10 ND | EPA 420.4 |
| TURBIDITY (NTU) | 0.86 | 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 CWCGSMIW

Sample Date

11/18/2010

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

| PARAMETER | VALUE | ANALYSIS METHOD NUMBER |
|-----------------------------------|--------|------------------------|
| BENZENE | 0.5 ND | EPA 524.2 |
| 1,2-DIBROMOETHANE (EDB) (ETHYLENE | 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) | 1.5 ND | EPA 524.2 |

T Please indicate detection limit if analyte is not detected.