

AGENDA
EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS

Tuesday, June 21, 2016
7:00 PM

1. Call to Order
2. Pledge of Allegiance
3. Moment of Silence – Supervisor Carmen Battavio
4. Ask if anyone is recording the meeting
5. Chairman’s Report
 - a. Announce that on June 28, 2016 @ 7 pm, the Board will hold a special meeting at the Goshen Fire House, 1320 Park Avenue, to review and discuss the various options and make a decision for the Hershey Mill Dam and Milltown Reservoir Dam.
 - b. Update on letter of intent to DCED.
6. [Public Hearing – Consider adoption of an ordinance to remove the weight limit for the bridge on East Boot Road.](#)
7. Emergency Services Reports
WEGO – Chief Brenda Bernot
Goshen Fire Co. - none
Malvern Fire Co – none
Fire Marshal – none
8. [Financial Report – May 2016 Report](#)
9. Old Business
 - a. [Presentation by Gannett Fleming on Milltown Reservoir Sediment Report.](#)
10. New Business
 - a. [Consider recommendation for bid award for the Forest Lane Culvert.](#)
 - b. [Consider resolution acknowledging Lieutenant Guy Rosato.](#)
 - c. [Consider recommendation to proclaim 2016 as a “Fit and Fun in the Park” Summer.](#)
 - d. [Consider “No Trucks, Local Deliveries Only” signs on Hibberd Lane and Grist Mill Lane.](#)
 - e. [Consider continuing e-waste event.](#)
 - f. [Consider resolution to amend the 1932 Sterling Act.](#)
 - g. [Consider contribution to Goshen Fire Company.](#)
 - h. [Consider recommendation to use trail camera to determine tennis court usage.](#)
 - i. [Consider executing stormwater operation and maintenance agreement for 1630 Highland Avenue.](#)
 - j. [Consider revision to Goshen Friends Land Development Plan.](#)

11. Any Other Matter
12. Approval of Minutes
 - a. [June 7, 2016](#)
13. Treasurer's Report
 - a. [June 16, 2016](#)
14. Correspondence, Reports of Interest
 - a. [June 1 letter from Sunoco Pipeline advising that construction activities for Mariner East 2 Project are expected to commence in late summer/early fall.](#)
15. Public Comment – Hearing of Residents
16. Adjournment

The Chairperson, in his or her sole discretion, shall have the authority to rearrange the agenda in order to accommodate the needs of other board members, the public or an applicant.

Dates of Importance

Jun 23, 2016	Farmers Market at Park	3:00 pm
Jun 30, 2016	Farmers Market at Park	3:00 pm
Jun 28, 2016	Applebrook Golf	1:00 pm
Jun 28, 2016	Board of Supervisors (Special Meeting)	7:00 pm
Jul 05, 2016	Board of Supervisors	7:00 pm
Jul 06, 2016	Planning Commission	7:00 pm
Jul 07, 2016	Farmers Market at Park	3:00 pm
Jul 07, 2016	Chester County Band (Amphitheater)	6:00 pm
Jul 11, 2016	Municipal Authority	7:00 pm
Jul 13, 2016	Conservancy Board	7:00 pm
Jul 14, 2016	Farmers Market at Park	3:00 pm
Jul 19, 2016	Board of Supervisors	7:00 pm
Jul 20, 2016	Futurist Committee	7:00 pm
Jul 21, 2016	Farmers Market/Car Cruise at Park	3:00 pm (Market)/5:00 pm (Car Cruise)

*Newsletter Deadline for fall of 2016: August 1, 2016

EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

ORDINANCE NO. ____-2016

AN ORDINANCE OF THE TOWNSHIP OF EAST GOSHEN, CHESTER COUNTY, PENNSYLVANIA, AMENDING CHAPTER 225 OF THE EAST GOSHEN TOWNSHIP CODE TITLED "VEHICLES AND TRAFFIC," SCHEDULE XII IN SECTION 225-55 TO REMOVE THE WEIGHT LIMIT FOR THE TOWNSHIP BRIDGE ON EAST BOOT ROAD IN EAST GOSHEN TOWNSHIP.

BE IT ENACTED AND ORDAINED by the Board of Supervisors of East Goshen Township that Chapter 225 of the East Goshen Township Code, titled "Vehicles and Traffic," is hereby amended as follows:

SECTION 1. Schedule XII titled "Vehicle Weight Limits" which is codified in Section 225-55 of the Code shall be amended by deleting the following gross weight limit:

Name of Street or Bridge	Max. Gross Weight (pounds)	Location
Township Bridge	26 tons except for combination vehicles, which shall not exceed 37 tons	East Boot Road

SECTION 2. Severability. If any sentence, clause, section or part of this Ordinance is for any reason found to be unconstitutional, illegal or invalid, such unconstitutionality, illegality or invalidity shall not affect or impair any of the remaining provisions, sentences, clauses, sections, or parts hereof. It is hereby declared as the intent of the Board of Supervisors that this Ordinance would have been adopted had such unconstitutional, illegal or invalid sentence, clause, section or part thereof not been included herein.

SECTION 3. Repealer. All ordinances or parts of ordinances conflicting with any provision of this Ordinance are hereby repealed insofar as the same affects this Ordinance.

SECTION 4. Effective Date. This Ordinance shall be effective five days following enactment as by law provided.

ENACTED AND ORDAINED this _____ day of _____, 2016.

ATTEST:

**EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS**

Louis F. Smith, Secretary

Senya D. Isayeff, Chairman

E. Martin Shane, Vice-Chairman

Carmen Battavio, Member

Charles W. Proctor, III, Esquire, Member

Janet L. Emanuel, Member

Memo

To: Board of Supervisors
From: Jon Altshul
Re: May 2016 Financial Report
Date: June 9, 2016

Net of pass-through accounts, as of May 31st, the general fund had revenues of \$5,293,208 and expenses of \$4,185,391 for a year-to-date surplus of \$1,107,817. Compared to the YTD budget, revenues were \$41,371 over budget and expenses were \$69,396 under budget for a positive budget variance of \$110,767. As of April 30th, the general fund balance was \$5,736,714.

On the expense side, Parks and Recreation was \$76,233 over-budget due to invoices paid to Gannett Fleming for the Milltown Dam study, as well as our decision to reclassify tree work done in the parks as a park expense. The Milltown Dam line item will be over-budget for the remainder of the year, in part because I expected the Township to incur a larger portion of the expenses in late 2015. All other operating departments were under budget.

On the revenue side, Earned Income Tax is now \$86,066 under budget. Real Estate Property Tax is \$23,783 over budget due to a large interim payment. Real Estate Transfer Tax is \$42,838 under budget reflecting sales through April. Local Services Tax continues to be strong with a positive budget variance of \$17,018.

Other funds

- The **State Liquid Fuels Fund** had \$503,610 in revenues and \$0 expenses. The fund balance is \$503,810.
- The **Sinking Fund** had \$26,033 in revenues and \$316,386 in expenses. The fund balance is \$5,977,108.
- The **Transportation Fund** had \$2,591 in revenues and \$0 in expenses. The fund balance is \$1,063,803.
- The **Sewer Operating Fund** had \$1,488,885 in revenues and \$1,184,923 in expenses. The fund balance is \$932,999.
- The **Refuse Fund** had \$470,192 in revenues and \$405,915 in expenses. The fund balance is \$719,960.
- The **Sewer Sinking Fund** had \$1,290 in revenues and \$10,353 in expenses. The fund balance is \$2,094,261.
- The **Operating Reserve Fund** had \$1,309 in revenues and no expenses. The fund balance is \$2,483,844.
- The **Events Fund** had \$5 in revenues and no expenses. The fund balance is \$45,020.

EAST GOSHEN TOWNSHIP
MAY 2016 GENERAL FUND SUMMARY
 May 31, 2016

Account Title	Annual Budget	Y-T-D Budget	Y-T-D Actual	Budget-Actual Variance
GENERAL FUND				
EMERGENCY SERVICES EXPENSES	4,345,656	2,269,718	2,060,958	(208,760)
PUBLIC WORKS EXPENSES	2,634,879	878,257	935,409	57,152
ADMINISTRATION EXPENSES	1,646,376	648,466	639,462	(9,004)
ZONING/PERMITS/CODES EXPENSES	538,192	217,872	234,661	16,789
PARK AND RECREATION EXPENSES	531,450	176,850	251,273	74,423
TOTAL CORE FUNCTION EXPENSES	9,696,553	4,191,163	4,121,764	(69,399)
EMERGENCY SERVICES REVENUES	67,595	13,395	10,855	(2,540)
PUBLIC WORKS REVENUES	974,509	131,530	195,387	63,857
ADMINISTRATION REVENUES	325,020	112,853	125,905	13,052
ZONING/PERMITS/CODES REVENUES	242,150	78,464	133,493	55,029
PARK AND RECREATION REVENUES	152,878	48,731	46,921	(1,810)
TOTAL CORE FUNCTION REVENUES	1,762,152	384,973	512,561	127,588
NET EMERGENCY SERVICES EXPENSES	4,278,061	2,256,323	2,050,103	(206,220)
NET PUBLIC WORKS EXPENSES	1,660,370	746,727	740,022	(6,705)
NET ADMINISTRATION EXPENSES	1,321,356	535,613	513,557	(22,056)
NET ZONING/PERMITS/CODES EXPENSES	296,042	139,408	101,169	(38,239)
NET PARK AND RECREATION EXPENSES	378,572	128,119	204,352	76,233
CORE FUNCTION NET SUBTOTAL	7,934,401	3,806,190	3,609,203	(196,987)
DEBT - PRINCIPAL	498,001	0	0	0
DEBT - INTEREST	150,270	63,624	63,627	3
TOTAL DEBT	648,271	63,624	63,627	3
TOTAL CORE FUNCTION NET	8,582,672	3,869,814	3,672,830	(196,984)
NON-CORE FUNCTION REVENUE				
EARNED INCOME TAX	4,921,500	2,341,564	2,255,498	(86,066)
REAL ESTATE PROPERTY TAX	1,997,165	1,909,419	1,933,202	23,783
REAL ESTATE TRANSFER TAX	525,000	218,750	175,912	(42,838)
CABLE TV FRANCHISE TAX	467,747	233,873	234,457	584
LOCAL SERVICES TAX	320,000	155,031	172,049	17,018
OTHER INCOME	28,076	8,227	9,529	1,302
TOTAL NON CORE FUNCTION REVENUE	8,259,488	4,866,864	4,780,646	(86,218)
NET RESULT	(323,184)	997,050	1,107,817	110,767

SUMMARY OF FUNDS REPORT (AKA "JOE REPORT")
 ALL FUNDS MAY 2016
 * NOTE: GENERAL FUND INCLUDES PASS-THROUGH ACCOUNTS

	GENERAL FUND*	LIQUID FUELS STATE FUND	SINKING FUND	TRANSPORT. FUND	SEWER OP. FUND	REFUSE FUND	SEWER SINK FUND	OPERATING RESERVE	EVENTS FUND	TOWNSHIP FUNDS	MUNICIPAL AUTHORITY
01/01/16 BEGINNING BALANCE	\$4,803,331	\$200	6,267,461	1,061,213	629,037	655,683	\$2,103,325	\$2,482,535	\$45,015	\$18,045,508	\$1,461,276
RECEIPTS											
310 TAXES	\$4,792,758	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,792,758	\$0
320 LICENSES & PERMITS	\$57,926	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$57,926	\$0
330 FINES & FORFEITS	\$10,855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,855	\$0
340 INTERESTS & RENTS	\$44,333	\$164	\$26,033	\$1,006	\$297	\$405	\$1,290	\$1,309	\$5	\$74,841	\$540
350 INTERGOVERNMENTAL	\$0	\$503,447	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$503,447	\$0
360 CHARGES FOR SERVICES	\$213,237	\$0	\$0	\$0	\$1,488,588	\$469,786	\$0	\$0	\$0	\$2,171,611	\$12,998
380 MISCELLANEOUS REVENUES	\$399,757	\$0	\$0	\$1,585	\$0	\$0	\$0	\$0	\$0	\$401,342	\$423
390 OTHER FINANCING SOURCES	\$113,437	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$113,437	\$25,000
	\$5,632,302	\$503,610	\$26,033	\$2,591	\$1,488,885	\$470,192	\$1,290	\$1,309	\$5	\$8,126,216	\$38,961
EXPENDITURES											
400 GENERAL GOVERNMENT	\$513,388	\$0	\$9,381	\$0	\$0	\$0	\$10,353	\$0	\$0	\$533,123	\$0
410 PUBLIC SAFETY	\$2,722,990	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,722,990	\$0
420 HEALTH & WELFARE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
426 SANITATION & REFUSE	\$45,198	\$0	\$0	\$0	\$1,000,461	\$405,915	\$0	\$0	\$0	\$1,451,574	\$82,949
430 HIGHWAYS, ROADS & STREETS	\$800,781	\$0	\$16,788	\$0	\$0	\$0	\$0	\$0	\$0	\$817,569	\$0
450 CULTURE-RECREATION	\$228,215	\$0	\$289,216	\$0	\$0	\$0	\$0	\$0	\$0	\$517,432	\$0
460 CONSERVATION & DEVELOPMENT	\$838	\$0	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,838	\$0
470 DEBT SERVICE	\$83,748	\$0	\$0	\$0	\$159,462	\$0	\$0	\$0	\$0	\$243,210	\$0
480 MISCELLANEOUS EXPENDITURES	\$303,223	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$303,223	\$0
OTHER FINANCING USES	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000	\$0
	\$4,698,382	\$0	\$316,386	\$0	\$1,184,923	\$405,915	\$10,353	\$0	\$0	\$6,615,959	\$82,949
2016 SURPLUS/(DEFICIT)*	\$933,920	\$503,610	(\$290,353)	\$2,591	\$303,962	\$64,277	(\$9,063)	\$1,309	\$5	\$1,510,257	(\$43,986)
CLEARING ACCOUNT ADJUSTMENTS	(\$538)										
5/31/2016 ENDING BALANCE	\$5,736,714	\$503,810	\$5,977,108	\$1,063,803	\$932,999	\$719,960	\$2,094,261	\$2,483,844	\$45,020	\$19,557,518	\$1,417,288

Technical Comments and Response Memorandum

Prepared For: East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Prepared By: Gannett Fleming Inc.
207 Senate Avenue
Camp Hill, PA 17011

Subject: Sediment Characterization Technical Memorandum, May 27, 2016
(Responses to Comments received via email dated June 6, 2016)
Milltown Reservoir
Chester County, PA

Date: June 14, 2016

INTRODUCTION

This memo provides a written response to comments received by East Goshen Township from Mr. Paul Knox via email on June 6, 2016.

Gannett Fleming, Inc. (GF) prepared an Environmental Sediment Sampling Technical Memorandum for East Goshen Township to summarize findings of the sediment sampling conducted at the Milltown Reservoir in May 2016. The memo was delivered to the Township. It documented the sampling methods, laboratory analytical results, and provided a comparison of detections to their respective PADEP clean fill concentration limits and Residential Statewide Human Health Standards. The memo concluded that land use surrounding the Milltown Reservoir was comprised entirely of residential properties. Results of the sediment analyses did not indicate a contamination issue. This material was determined to be clean fill.

COMMENTS

Comment #1: Email from Mr. Paul Knox to East Goshen Township on June 6, 2016.

"If you just take the results at face value, the sediments look pretty clean. That is a good thing, particularly if the reservoir were to be dredged. The sediment could be used as "clean" fill material without any additional costs associated with disposal of material that would be characterized as "hazardous." I do have two major problems with the evaluation however."

"The first problem I have is the fact that the analyses of the organic compounds did not achieve low enough detection limits to be of any use. It's like if you don't look very hard, you won't find any problems. The laboratory methodology did not achieve sufficiently low enough detection limits to detect concentrations of certain organic compounds that could potentially be a human health risk or ecological hazard. For instance: if the detection limit for a given compound is 10 µg/kg but the level of concern is 1 µg/kg, then the compound could be present at concentrations up to 9 µg/kg (9 times the level of concern), but still be reported by the laboratory as not detected. If you look at the lab report, virtually all of the organic compounds in all of the samples are not detected (ND). The Twp. is assuming that

everything that is reported as ND is not present in the sediment, when in fact it could be present in the sediment at concentrations that may be of concern, just less than the reporting limit. This is pretty technical stuff, but I think the Twp. did not get their money's worth as far as the quality of the analyses is concerned."

"The second issue I have with the report is that they compared the sediment analytical results to standards for fill material. They did not compare the sediment data to standards based on the protection of human health or ecological receptors. The comparison that was presented in the report will tell you if the sediment could be used as "clean" fill or not. The comparison does not tell you if the sediment could pose hazards to human health or ecological receptors."

GANNETT FLEMING RESPONSES

We appreciate the reviewer's comment and are providing the following responses:

1. The laboratory detection limits for all constituents analyzed were below their respective Pennsylvania Residential (R) Medium Specific Concentrations (MSCs) for Organic and Inorganic Regulated Substances in Soil (Direct Contact 0-15 feet). These are the Statewide Human Health Standards as listed in PADEP Title 25, PA Code Chapter 250 "Administration of the Land Recycling Program." This information was provided in Table 1 of the Tech Memo. These standards are regulation and not subject to regulatory discretion. The sediment sample results did not exceed any of their respective Statewide Human Health Standards, therefore the laboratory report and the report's conclusions remain unchanged. We originally provided a summary table of detections, Table 1. Based on the reviewer's concerns about non-detections (NDs) in the lab report and human health protection, we revised Table 1 to include the full suite of all the constituents analyzed along with their respective laboratory detection limit values to show that the detection limits were all below their respective Human Health Standard.
2. The laboratory ran a full scan, consisting of sixty-eight semivolatile organic compounds (SVOCs), according to EPA Method SW846 8270D. As previously mentioned, none of the SVOCs were detected above their respective Statewide Human Health Standard. As noted by the reviewer, the laboratory reporting detection limits (RDL) and method detection limits (MDL) were above their respective Pennsylvania Clean Fill Concentrations for six SVOCs. It does not mean that these compounds were detected, it means that the laboratory equipment did not detect those compounds above their respective detection limit.

During laboratory analysis each sample receives a specific RDL and MDL value. These values vary per sample based on equipment, saturation, and other factors. There are times when the detection limits are reported higher or lower than a respective measured value or standard used for comparison purposes. The results are still useful in providing a level of confidence that those organic compounds were not detected to the MDL values reported.

The results of the full suite analyses provide confidence that regulated organic compounds are not present in the sediments to suggest a concern for human health or material handling. The analytical lab report was updated on June 8, 2016 to list the MDL values in addition to the RDL values. For planning and decision making purposes, all of the results are valuable in determining if the sediment material suggests clean fill or waste. Our understanding of the watershed, followed by the analytical results indicates no evidence of a release of a regulated substance into the sediments of the Milltown Reservoir. Based on the technical guidance of the Management of Fill Policy, that information is enough to classify the material as clean fill.

3. This sediment sampling effort is a part of the planning and decision making process for the Milltown Reservoir. At this time, there is no reason to suspect contamination of reservoir sediments that would impact human health or classify the material as anything else but clean fill. If a decision is reached that involves the removal of sediments or soil for offsite re-use or offsite disposal purposes, the Contractor would follow the Management of Fill Policy and provide a Certification of Clean Fill FP-001 document for material leaving the project area.

Enclosures:

Table 1 (Revised): Sediment Analytical Results – Full Analyte List
Attachment A: Laboratory Analytical Report with MDL and RDL limits – June 8, 2016

cc: File 060466

Table 1 (Revised)
Full Suite - Sediment Analytical Results
Milltown Reservoir

Sample Name and Location	Site 1 Composite-001		Site 2 Composite-001		Site 2 Composite-002		Site 3 Composite-001		Site 3 Composite-002		Site 3 Composite-003		PADEP Act 2 MSC's for Organic and Inorganic Regulated Substances in Soil. Direct Contact Numeric Values	Pennsylvania Clean Fill Concentration for Organics and Metals ²	Units
	Sample Date	3-May-16	3-May-16	3-May-16	4-May-16	4-May-16	4-May-16	Results	DQ	Results	DQ	Results			
Sample Time	1030	1150	1230	0930	1015	1100									
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment									
Sampling Depth	0-3'	0-4'	4-7'	0-4'	4-8'	8-12'									
Inorganic Compounds (Metals)	Results	DQ	Results	DQ	Results	DQ	Results	DQ	Results	DQ	Results	DQ	0.15		
Aluminum, Total	3,300	-	1,260	-	1,630	-	5,360	-	47,700	-	46,300	-	190,000	-	mg/kg
Antimony, Total	<0.11	U	<0.14	U	<0.12	U	<0.16	U	<1.9	U	<1.9	U	88	27	mg/kg
Arsenic, Total	0.46	-	<0.21	U	0.27	-	0.9	-	7.2	-	7.9	-	12	12	mg/kg
Barium, Total	20.3	-	8.5	-	9.7	-	48.6	-	339	-	312	-	44,000	8,200	mg/kg
Beryllium, Total	0.035	-	<0.069	U	<0.059	U	0.19	-	1.6	-	1.6	-	440	320	mg/kg
Cadmium, Total	<0.053	U	<0.069	U	<0.059	U	0.096	-	<0.93	U	<0.95	U	110	38	mg/kg
Calcium, Total	314	-	168	-	86.2	-	694	-	3,850	-	2,690	-	-	-	mg/kg
Chromium, Total	4.8	-	1.8	-	2.0	-	10.1	-	76.1	-	68.5	-	660	94	mg/kg
Chromium, Total	0.74	-	<0.35	U	0.38	-	1.5	-	12.6	-	12.3	-	66	8.1	mg/kg
Cobalt, Total	2.2	-	1.1	-	1.6	-	5.3	-	43.4	-	45.2	-	8,100	8,200	mg/kg
Copper, Total	2.2	-	1.1	-	1.6	-	5.3	-	47,200	-	47,600	-	150,000	-	mg/kg
Iron, Total	3,050	-	1,290	-	1,450	-	6,070	-	47,200	-	47,600	-	150,000	-	mg/kg
Lead, Total	4.3	-	1.6	-	1.4	-	8.9	-	76.6	-	48.7	-	500	450	mg/kg
Magnesium, Total	498	-	234	-	194	-	1,020	-	7,780	-	6,500	-	-	-	mg/kg
Manganese, Total	35.8	-	17.0	-	21.6	-	77.2	-	702	-	741	-	10,000	31,000	mg/kg
Mercury, Total	<0.036	U	<0.1	U	<0.082	U	<0.12	U	<0.1	U	<0.1	U	35	10	mg/kg
Nickel, Total	2.40	-	1.0	-	1.2	-	5.3	-	40.9	-	41.3	-	4,400	650	mg/kg
Potassium, Total	265	-	102	-	102	-	398	-	3,620	-	3,060	-	-	-	mg/kg
Selenium, Total	0.52	-	<0.35	U	<0.29	U	0.74	-	5.5	-	7.6	-	1,100	26	mg/kg
Silver, Total	<0.11	U	<0.14	U	<0.12	U	<0.16	U	<1.9	U	<1.9	U	1,100	64	mg/kg
Sodium, Total	68.1	-	124	-	36.8	-	132	-	274	-	164	-	-	-	mg/kg
Thallium, Total	<0.053	U	<0.069	U	<0.059	U	<0.080	U	<0.93	U	<0.95	U	15	14	mg/kg
Vanadium, Total	5.6	-	2.0	-	2.4	-	11.0	-	90.4	-	82.9	-	1,500	1,500	mg/kg
Zinc, Total	10.4	-	4.5	-	3.8	-	25.6	-	165	-	141	-	66,000	12,000	mg/kg
Semivolatile Organic Compounds (SVOCs)															
Acenaphthene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	13,000	2,700	mg/kg
Acenaphthylene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	13,000	2,500	mg/kg
Acetophenone	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	10,000	200	mg/kg
Anthracene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	66,000	350	mg/kg
Atrazine	<0.0331	U	<0.0403	U	<0.0343	U	<0.0516	U	<0.0432	U	<0.0388	U	78	0.13	mg/kg
Benzaldehyde	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	-	-	mg/kg
Benzo(a)anthracene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	5.7	25	mg/kg
Benzo(a)pyrene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	0.57	2.5	mg/kg
Benzo(b)fluoranthene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	5.7	25	mg/kg
Benzo(g,h,i)perylene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	13,000	180	mg/kg
Benzo(k)fluoranthene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	5.7	250	mg/kg
Biphenyl	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	11,000	790	mg/kg
4-Bromophenyl-phenylether	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	100	-	mg/kg
Butylbenzylphthalate	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	9.4	10,000	mg/kg
Caprolactam	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	-	-	mg/kg
Carbazole	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	900	21	mg/kg
4-Chloro-3-methylphenol	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	1,100	37	mg/kg
4-Chloroaniline	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	90	19	mg/kg
bis(2-Chloroethoxy)methane	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	660	-	mg/kg
bis(2-Chloroethoxy)ether	<0.0392	U	<0.0476	U	<0.0406	U	<0.0610	U	<0.0511	U	<0.0459	U	1.3	0.0039	mg/kg
bis(2-Chloroisopropoxy)ether	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	44	8	mg/kg
2-Chloronaphthalene	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	18,000	6,200	mg/kg
2-Chlorophenol	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	1,100	4.4	mg/kg
4-Chlorophenyl-phenylether	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	100	-	mg/kg
Chrysene	<0.151	U	0.228	-	<0.156	U	<0.234	U	<0.196	U	<0.176	U	570	230	mg/kg
mp-Cressol	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	-	-	mg/kg
o-Cressol	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	11,000	64	mg/kg
Di-n-Butylphthalate	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	10,000	1,500	mg/kg
Di-n-Octylphthalate	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	8,800	4,400	mg/kg
Dibenz(a,h)anthracene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	0.57	2.7	mg/kg
Dibenzofuran	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	220	-	mg/kg
3,3-Dichlorobenzidine	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	40	8.3	mg/kg
2,4-Dichlorophenol	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	660	1	mg/kg
Diethylphthalate	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	10,000	160	mg/kg
2,4-Dimethylphenol	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	4,400	32	mg/kg
Dimethylphthalate	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	100	-	mg/kg
2,4-Dinitrophenol	<0.012	U	<0.146	U	<0.125	U	<0.186	U	<0.157	U	<0.141	U	440	0.21	mg/kg
2,4-Dinitrotoluene	<0.0361	U	<0.0329	U	<0.0281	U	<0.0422	U	<0.0354	U	<0.0318	U	58	0.05	mg/kg
2,6-Dinitrotoluene	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	220	1.1	mg/kg
1,4-Dioxane	<0.148	U	<0.179	U	<0.153	U	<0.23	U	<0.192	U	<0.173	U	58	0.073	mg/kg
bis(2-Ethylhexyl)phthalate	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	1,300	130	mg/kg
Fluoranthene	0.158	-	0.194	-	<0.156	U	<0.234	U	<0.196	U	<0.176	U	8,800	3,200	mg/kg
Fluorene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	8,800	3,000	mg/kg
Hexachlorobenzene	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	11	0.96	mg/kg
Hexachlorobutadiene	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	220	1.2	mg/kg
Hexachlorocyclopentadiene	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	1,300	91	mg/kg
Hexachloroethane	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	110	0.56	mg/kg
Indeno(1,2,3-cd)pyrene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	5.7	25	mg/kg
Isoflorone	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	10,000	1.9	mg/kg
2-Methyl-4,6-dinitrophenol	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	22	3.1	mg/kg
2-Methylnaphthalene	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	880	2,900	mg/kg
Naphthalene	<0.151	U	<0.183	U	<0.156	U	<0.234	U	<0.196	U	<0.176	U	660	25	mg/kg
2-Nitroaniline	<0.0361	U	<0.0439	U	<0.0374	U	<0.0563	U	<0.0471	U	<0.0424	U	660	0.038	mg/kg
3-Nitroaniline	<0.0602	U	<0.0732	U	<0.0624	U	<0.0938	U	<0.0786	U	<0.0706	U	66	0.033	mg/kg
4-Nitroaniline	<0.0241	U	<0.0293	U	<0.025	U	<0.0375	U	<0.0314	U	<0.0282	U	880	0.031	mg/kg
Nitrobenzene	<0.301	U	<0.366	U	<0.312	U	<0.469	U	<0.393	U	<0.353	U	440	0.79	mg/kg
2-Nitrophenol	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	1,800	5.9	mg/kg
4-Nitrophenol	<0.602	U	<0.732	U	<0.624	U	<0.938	U	<0.786	U	<0.706	U	1,800		

Table 1 (Revised)
Full Suite - Sediment Analytical Results
Milltown Reservoir

PCBCs															
Aroclor-1016	<0.078	U	<0.15	U	<0.11	U	<0.15	U	<0.11	U	<0.13	U	15	15	mg/kg
Aroclor-1221	<0.078	U	<0.15	U	<0.11	U	<0.15	U	<0.11	U	<0.13	U	9	0.63	mg/kg
Aroclor-1232	<0.078	U	<0.15	U	<0.11	U	<0.15	U	<0.11	U	<0.13	U	9	0.5	mg/kg
Aroclor-1242	<0.078	U	<0.15	U	<0.11	U	<0.15	U	<0.11	U	<0.13	U	9	16	mg/kg
Aroclor-1248	<0.078	U	<0.15	U	<0.11	U	<0.15	U	<0.11	U	<0.13	U	9	9.9	mg/kg
Aroclor-1254	<0.078	U	<0.15	U	<0.11	U	<0.15	U	<0.11	U	<0.13	U	4.4	4.4	mg/kg
Aroclor-1260	<0.078	U	<0.15	U	<0.11	U	<0.15	U	<0.11	U	<0.13	U	9	30	mg/kg
Aroclor-1262	<0.078	U	<0.15	U	<0.11	U	<0.15	U	<0.11	U	<0.13	U	-	-	mg/kg
Aroclor-1268	<0.078	U	<0.15	U	<0.11	U	<0.15	U	<0.11	U	<0.13	U	-	-	mg/kg
PESTICIDES															
Aldrin	<0.02	U	<0.0386	U	<0.0284	U	<0.038	U	<0.0272	U	<0.0338	U	1.1	0.1	mg/kg
alpha-BHC	<0.02	U	<0.0386	U	<0.0284	U	<0.038	U	<0.0272	U	<0.0338	U	2.8	0.046	mg/kg
beta-BHC	<0.02	U	<0.0386	U	<0.0284	U	<0.038	U	<0.0272	U	<0.0338	U	9.9	0.22	mg/kg
delta-BHC	<0.02	U	<0.0386	U	<0.0284	U	<0.038	U	<0.0272	U	<0.0338	U	16	11	mg/kg
gamma-BHC	<0.02	U	<0.0386	U	<0.0284	U	<0.038	U	<0.0272	U	<0.0338	U	16	0.072	mg/kg
alpha-Chlordane	<0.02	U	<0.0386	U	<0.0284	U	<0.038	U	<0.0272	U	<0.0338	U	-	-	mg/kg
4,4'-DDD	<0.0389	U	<0.0749	U	<0.0551	U	<0.0738	U	<0.0529	U	<0.0656	U	75	6.8	mg/kg
4,4'-DDT	<0.0389	U	<0.0749	U	<0.0551	U	<0.0738	U	<0.0529	U	<0.0656	U	53	53	mg/kg
Dieldrin	<0.0389	U	<0.0749	U	<0.0551	U	<0.0738	U	<0.0529	U	<0.0656	U	1.1	0.11	mg/kg
Endosulfan I	<0.02	U	<0.0386	U	<0.0284	U	<0.038	U	<0.0272	U	<0.0338	U	1,300	110	mg/kg
Endosulfan II	<0.0389	U	<0.0749	U	<0.0551	U	<0.0738	U	<0.0529	U	<0.0656	U	1,300	130	mg/kg
Endosulfan Sulfate	<0.0389	U	<0.0749	U	<0.0551	U	<0.0738	U	<0.0529	U	<0.0656	U	1,300	70	mg/kg
Endrin	<0.0389	U	<0.0749	U	<0.0551	U	<0.0738	U	<0.0529	U	<0.0656	U	66	5.5	mg/kg
Endrin Aldehyde	<0.0389	U	<0.0749	U	<0.0551	U	<0.0738	U	<0.0529	U	<0.0656	U	-	-	mg/kg
Endrin Ketone	<0.0389	U	<0.0749	U	<0.0551	U	<0.0738	U	<0.0529	U	<0.0656	U	-	-	mg/kg
Heptachlor	<0.02	U	<0.0386	U	<0.0284	U	<0.038	U	<0.0272	U	<0.0338	U	4	0.68	mg/kg
Heptachlor Epoxide	<0.02	U	<0.0386	U	<0.0284	U	<0.038	U	<0.0272	U	<0.0338	U	2	1.1	mg/kg
Methoxychlor	<0.0389	U	<0.0749	U	<0.0551	U	<0.0738	U	<0.0529	U	<0.0656	U	1,100	630	mg/kg
Toxaphene	<0.412	U	<0.794	U	<0.585	U	<0.783	U	<0.561	U	<0.686	U	16	1.2	mg/kg
HERBICIDES															
2,4-D	<0.115	U	<0.148	U	<0.125	U	<0.169	U	<0.146	U	<0.137	U	2,200	1.8	mg/kg
2,4-DB	<0.115	U	<0.148	U	<0.125	U	<0.169	U	<0.146	U	<0.137	U	-	-	mg/kg
Dalapon	<0.115	U	<0.148	U	<0.125	U	<0.169	U	<0.146	U	<0.137	U	6,600	5.3	mg/kg
Diazinb	<0.115	U	<0.148	U	<0.125	U	<0.169	U	<0.146	U	<0.137	U	6,600	-	mg/kg
Dichloroprop	<0.115	U	<0.148	U	<0.125	U	<0.169	U	<0.146	U	<0.137	U	-	-	mg/kg
Dinoseb	<0.115	U	<0.148	U	<0.125	U	<0.169	U	<0.146	U	<0.137	U	220	0.29	mg/kg
Pentachlorophenol	<0.286	U	<0.368	U	<0.312	U	<0.421	U	<0.384	U	<0.341	U	150	5	mg/kg
2,4,5-T	<0.115	U	<0.148	U	<0.125	U	<0.169	U	<0.146	U	<0.137	U	2,200	1.5	mg/kg
2,4,5-TP	<0.115	U	<0.148	U	<0.125	U	<0.169	U	<0.146	U	<0.137	U	1,800	22	mg/kg
General Chemistry															
pH	6.97	-	6.93	-	6.91	-	6.87	-	6.91	-	6.85	-	-	-	SU

- Notes:
- Residential (R) Medium Specific Concentrations (MSC) for Organic and Inorganic Related Substances in Soil (Direct Contact 0-15 feet), Pennsylvania Department of Environmental Protection (PADEP) listed in Title 25, PA Code, Chapter 250, "Administration of the Land Recycling Program" regulations, Appendix A, Table 3A, dated November 24, 2001 and revised January 8, 2011.
 - Pennsylvania Department of Environmental Protection, Management of Fill, August 27, 2010, Doc # 258-2182-773, Clean Fill Concentrations Limits for Organics (Table FP-1a) and Metals (Table FP-1b).
 - Results in bold type indicate that the measured level of the parameter exceeded the laboratory method detection limit.
 - "U" - Compound was not detected above its respective Reporting Detection Limit (RDL) or its Method Detection Limit (MDL).
 - "*" Indicates a blank cell with no value.
 - DQ - detection qualifier.



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

June 8, 2016

Mr. David Graff
Gannett Fleming Inc. (Hbg)
207 Senate Avenue
Camp Hill, PA 17011

Certificate of Analysis

Revised Report - 6/8/2016 4:32:24 PM - See workorder comment section for explanation

Project Name:	2016-MILLTOWN	Workorder:	2141551
Purchase Order:	060466	Workorder ID:	Millerstown Reservoir

Dear Mr. Graff:

Enclosed are the analytical results for samples received by the laboratory on Thursday, May 5, 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. Shannon Butler (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

Ms. Shannon Butler
Project Coordinator

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

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SAMPLE SUMMARY

Workorder: 2141551 Millerstown Reservoir

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2141551001	Site 1-Composite 1	Solid	5/3/2016 10:30	5/5/2016 10:39	Collected by Client
2141551002	Site 2-Composite 1	Solid	5/3/2016 11:50	5/5/2016 10:39	Collected by Client
2141551003	Site 2-Composite 2	Solid	5/3/2016 12:30	5/5/2016 10:39	Collected by Client
2141551004	Site 3-Composite 1	Solid	5/4/2016 09:30	5/5/2016 10:39	Collected by Client
2141551005	Site 3-Composite 2	Solid	5/4/2016 10:15	5/5/2016 10:39	Collected by Client
2141551006	Site 3-Composite 3	Solid	5/4/2016 11:00	5/5/2016 10:39	Collected by Client
2141551007	Equipment Blank	Water	5/3/2016 14:00	5/5/2016 10:39	Collected by Client

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SAMPLE SUMMARY

Workorder: 2141551 Millerstown Reservoir

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
Cnr	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: 2141551 Millerstown Reservoir

Workorder Comments

This work order was re-issued to report to the MDL. SB 06/08/16.

Sample Comments

Lab ID: 2141551001 **Sample ID:** Site 1-Composite 1 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2141551002 **Sample ID:** Site 2-Composite 1 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2141551003 **Sample ID:** Site 2-Composite 2 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2141551004 **Sample ID:** Site 3-Composite 1 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2141551005 **Sample ID:** Site 3-Composite 2 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2141551006 **Sample ID:** Site 3-Composite 3 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2141551007 **Sample ID:** Equipment Blank **Sample Type:** SAMPLE

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: 2141551 Millerstown Reservoir

Lab ID: **2141551001** Date Collected: 5/3/2016 10:30 Matrix: Solid
Sample ID: **Site 1-Composite 1** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	151	18.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Acenaphthylene	ND		ug/kg	151	21.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Acetophenone	ND		ug/kg	301	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Anthracene	ND		ug/kg	151	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Atrazine	ND		ug/kg	301	33.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Benzaldehyde	ND		ug/kg	602	51.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Benzo(a)anthracene	ND		ug/kg	151	15.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Benzo(a)pyrene	76.7J	J	ug/kg	151	12.0	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Benzo(b)fluoranthene	110J	J	ug/kg	151	15.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Benzo(g,h,i)perylene	72.0J	J	ug/kg	151	15.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Benzo(k)fluoranthene	53.7J	J	ug/kg	151	15.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Biphenyl	ND		ug/kg	301	21.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
4-Bromophenyl-phenylether	ND		ug/kg	301	27.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Butylbenzylphthalate	ND		ug/kg	301	21.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Caprolactam	ND		ug/kg	602	54.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Carbazole	ND		ug/kg	301	21.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
4-Chloro-3-methylphenol	ND		ug/kg	602	30.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
4-Chloroaniline	ND		ug/kg	602	36.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
bis(2-Chloroethoxy)methane	ND		ug/kg	301	27.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	301	39.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	301	45.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
2-Chloronaphthalene	ND		ug/kg	301	18.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
2-Chlorophenol	ND		ug/kg	602	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
4-Chlorophenyl-phenylether	ND		ug/kg	301	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Chrysene	79.4J	J	ug/kg	151	15.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
mp-Cresol	ND		ug/kg	602	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
o-Cresol	ND		ug/kg	602	33.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Di-n-Butylphthalate	ND		ug/kg	301	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Di-n-Octylphthalate	ND		ug/kg	301	21.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	151	18.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Dibenzofuran	ND		ug/kg	301	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	602	114	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
2,4-Dichlorophenol	ND		ug/kg	602	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Diethylphthalate	ND		ug/kg	301	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
2,4-Dimethylphenol	ND		ug/kg	602	45.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
Dimethylphthalate	ND		ug/kg	301	21.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A
2,4-Dinitrophenol	ND		ug/kg	602	120	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

 Lab ID: **2141551001** Date Collected: 5/3/2016 10:30 Matrix: Solid
 Sample ID: **Site 1-Composite 1** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
2,4-Dinitrotoluene	ND		ug/kg	301	27.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
2,6-Dinitrotoluene	ND		ug/kg	301	36.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
1,4-Dioxane	ND		ug/kg	301	148	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
bis(2-Ethylhexyl)phthalate	74.9J	J	ug/kg	301	21.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Fluoranthene	158		ug/kg	151	15.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Fluorene	ND		ug/kg	151	18.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Hexachlorobenzene	ND		ug/kg	301	33.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Hexachlorobutadiene	ND		ug/kg	301	30.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Hexachlorocyclopentadiene	ND		ug/kg	602	33.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Hexachloroethane	ND		ug/kg	301	27.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Indeno(1,2,3-cd)pyrene	68.3J	J	ug/kg	151	21.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Isophorone	ND		ug/kg	301	18.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
2-Methyl-4,6-dinitrophenol	ND		ug/kg	602	78.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
2-Methylnaphthalene	ND		ug/kg	301	15.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Naphthalene	ND		ug/kg	151	18.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
2-Nitroaniline	ND		ug/kg	602	36.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
3-Nitroaniline	ND		ug/kg	602	60.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
4-Nitroaniline	ND		ug/kg	602	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Nitrobenzene	ND		ug/kg	301	36.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
2-Nitrophenol	ND		ug/kg	602	33.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
4-Nitrophenol	ND		ug/kg	602	42.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
N-Nitroso-di-n-propylamine	ND		ug/kg	301	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
N-Nitrosodiphenylamine	ND		ug/kg	301	24.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Pentachlorophenol	ND		ug/kg	602	78.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Phenanthrene	59.1J	J	ug/kg	151	15.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Phenol	ND		ug/kg	602	30.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Pyrene	124J	J	ug/kg	151	15.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	301	21.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
2,3,4,6-Tetrachlorophenol	ND		ug/kg	602	36.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
2,4,5-Trichlorophenol	ND		ug/kg	602	36.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
2,4,6-Trichlorophenol	ND		ug/kg	602	36.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	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>
2,4,6-Tribromophenol (S)	59.8		%	19 - 132		SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
2-Fluorobiphenyl (S)	49.1		%	40 - 110		SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
2-Fluorophenol (S)	83.1		%	26 - 116		SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Nitrobenzene-d5 (S)	69.4		%	38 - 112		SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Phenol-d5 (S)	82		%	35 - 111		SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	
Terphenyl-d14 (S)	46.8		%	45 - 126		SW846 8270D	5/11/16 02:25 VLM	5/11/16 11:34	CGS	A	

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: **2141551001** Date Collected: 5/3/2016 10:30 Matrix: Solid
Sample ID: **Site 1-Composite 1** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
PCBs										
Aroclor-1016	ND		mg/kg	0.078	0.014	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:35	KJH A
Aroclor-1221	ND		mg/kg	0.078	0.0071	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:35	KJH A
Aroclor-1232	ND		mg/kg	0.078	0.014	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:35	KJH A
Aroclor-1242	ND		mg/kg	0.078	0.021	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:35	KJH A
Aroclor-1248	ND		mg/kg	0.078	0.014	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:35	KJH A
Aroclor-1254	0.052J	J	mg/kg	0.078	0.014	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:35	KJH A
Aroclor-1260	0.027J	J	mg/kg	0.078	0.014	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:35	KJH A
Aroclor-1262	ND		mg/kg	0.078	0.016	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:35	KJH A
Aroclor-1268	ND		mg/kg	0.078	0.021	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:35	KJH 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>
Decachlorobiphenyls (S)	77.4		%	49 - 115		SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:35	KJH A
Tetrachloro-m-xylene (S)	91.1		%	27 - 137		SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:35	KJH A
PESTICIDES										
Aldrin	ND		ug/kg	20.0	6.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
alpha-BHC	ND		ug/kg	20.0	1.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
beta-BHC	ND		ug/kg	20.0	2.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
delta-BHC	ND		ug/kg	20.0	1.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
gamma-BHC	ND		ug/kg	20.0	1.6	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
alpha-Chlordane	ND		ug/kg	20.0	2.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
gamma-Chlordane	ND		ug/kg	20.0	3.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
4,4'-DDD	ND		ug/kg	38.9	3.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
4,4'-DDE	ND		ug/kg	38.9	5.3	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
4,4'-DDT	ND		ug/kg	38.9	4.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
Dieldrin	ND		ug/kg	38.9	4.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
Endosulfan I	ND		ug/kg	20.0	2.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
Endosulfan II	ND		ug/kg	38.9	8.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
Endosulfan Sulfate	ND		ug/kg	38.9	2.6	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
Endrin	ND		ug/kg	38.9	2.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
Endrin Aldehyde	ND		ug/kg	38.9	4.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
Endrin Ketone	ND		ug/kg	38.9	5.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
Heptachlor	ND		ug/kg	20.0	2.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
Heptachlor Epoxide	ND		ug/kg	20.0	2.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
Methoxychlor	ND		ug/kg	38.9	5.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
Toxaphene	ND		ug/kg	412	68.3	SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS 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>
Decachlorobiphenyls (S)	94.4		%	30 - 135		SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A

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 State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551001 Date Collected: 5/3/2016 10:30 Matrix: Solid
 Sample ID: Site 1-Composite 1 Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	69.3		%	30 - 111		SW846 8081B	5/6/16 04:00	CMA	5/6/16 15:59	RWS A
HERBICIDES										
2,4-D	ND		ug/kg	115	44.6	SW846 8151A	5/9/16 06:20	VLM	5/11/16 14:42	KJH A
2,4-DB	ND		ug/kg	115	61.8	SW846 8151A	5/9/16 06:20	VLM	5/11/16 14:42	KJH A
Dalapon	ND		ug/kg	115	29.2	SW846 8151A	5/9/16 06:20	VLM	5/11/16 14:42	KJH A
Dicamba	ND		ug/kg	115	41.2	SW846 8151A	5/9/16 06:20	VLM	5/11/16 14:42	KJH A
Dichloroprop	ND		ug/kg	115	46.3	SW846 8151A	5/9/16 06:20	VLM	5/11/16 14:42	KJH A
Dinoseb	ND		ug/kg	286	58.3	SW846 8151A	5/9/16 06:20	VLM	5/11/16 14:42	KJH A
Pentachlorophenol	ND		ug/kg	115	65.2	SW846 8151A	5/9/16 06:20	VLM	5/11/16 14:42	KJH A
2,4,5-T	ND		ug/kg	115	48.0	SW846 8151A	5/9/16 06:20	VLM	5/11/16 14:42	KJH A
2,4,5-TP	ND		ug/kg	115	53.2	SW846 8151A	5/9/16 06:20	VLM	5/11/16 14:42	KJH 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>
2,4-Dichlorophenylacetic acid (S)	69.3		%	36 - 113		SW846 8151A	5/9/16 06:20	VLM	5/11/16 14:42	KJH A
WET CHEMISTRY										
Moisture	42.1		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
pH	6.97	1	pH_Units		1	SW846 9045D			5/7/16 06:25	MSA A
Total Solids	57.9		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
METALS										
Aluminum, Total	3300		mg/kg	4.2	1.4	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Antimony, Total	ND		mg/kg	0.11	0.035	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Arsenic, Total	0.46		mg/kg	0.16	0.053	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Barium, Total	20.3		mg/kg	0.26	0.085	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Beryllium, Total	0.095		mg/kg	0.053	0.017	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Cadmium, Total	0.039J	J	mg/kg	0.053	0.017	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Calcium, Total	314		mg/kg	5.3	1.7	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Chromium, Total	4.8		mg/kg	0.11	0.035	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Cobalt, Total	0.74		mg/kg	0.26	0.085	SW846 6020A	5/10/16 13:40	JPS	5/20/16 09:32	MO A1
Copper, Total	2.2		mg/kg	0.26	0.085	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Iron, Total	3050		mg/kg	2.6	0.85	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Lead, Total	4.3		mg/kg	0.11	0.035	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Magnesium, Total	498		mg/kg	5.3	1.7	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Manganese, Total	35.8		mg/kg	0.26	0.085	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Mercury, Total	0.028J	J	mg/kg	0.086	0.028	SW846 7471B	5/16/16 10:30	MNP	5/16/16 13:17	MNP A2
Nickel, Total	2.4		mg/kg	0.26	0.085	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Potassium, Total	265		mg/kg	5.3	1.7	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1
Selenium, Total	0.52		mg/kg	0.26	0.085	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:49	MO A1

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551001

Date Collected: 5/3/2016 10:30

Matrix: Solid

Sample ID: Site 1-Composite 1

Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Silver, Total	ND		mg/kg	0.11	0.035	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:32	MO	A1
Sodium, Total	68.1		mg/kg	5.3	1.7	SW846 6020A	5/10/16 13:40 JPS	5/19/16 16:49	MO	A1
Thallium, Total	0.020J	J	mg/kg	0.053	0.017	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:32	MO	A1
Vanadium, Total	5.6		mg/kg	0.11	0.035	SW846 6020A	5/10/16 13:40 JPS	5/19/16 16:49	MO	A1
Zinc, Total	10.4		mg/kg	0.26	0.085	SW846 6020A	5/10/16 13:40 JPS	5/19/16 16:49	MO	A1



Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: **2141551002** Date Collected: 5/3/2016 11:50 Matrix: Solid
Sample ID: **Site 2-Composite 1** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	183	22.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Acenaphthylene	ND		ug/kg	183	25.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Acetophenone	ND		ug/kg	366	29.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Anthracene	ND		ug/kg	183	29.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Atrazine	ND		ug/kg	366	40.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Benzaldehyde	ND		ug/kg	732	62.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Benzo(a)anthracene	67.3J	J	ug/kg	183	18.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Benzo(a)pyrene	113J	J	ug/kg	183	14.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Benzo(b)fluoranthene	173J	J	ug/kg	183	18.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Benzo(g,h,i)perylene	118J	J	ug/kg	183	18.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Benzo(k)fluoranthene	53.0J	J	ug/kg	183	18.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Biphenyl	ND		ug/kg	366	25.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
4-Bromophenyl-phenylether	ND		ug/kg	366	32.9	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Butylbenzylphthalate	ND		ug/kg	366	25.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Caprolactam	ND		ug/kg	732	65.9	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Carbazole	ND		ug/kg	366	25.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
4-Chloro-3-methylphenol	ND		ug/kg	732	36.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
4-Chloroaniline	ND		ug/kg	732	43.9	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
bis(2-Chloroethoxy)methane	ND		ug/kg	366	32.9	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	366	47.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	366	54.9	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
2-Chloronaphthalene	ND		ug/kg	366	22.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
2-Chlorophenol	ND		ug/kg	732	29.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
4-Chlorophenyl-phenylether	ND		ug/kg	366	29.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Chrysene	226		ug/kg	183	18.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
mp-Cresol	ND		ug/kg	732	29.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
o-Cresol	ND		ug/kg	732	40.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Di-n-Butylphthalate	ND		ug/kg	366	29.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Di-n-Octylphthalate	ND		ug/kg	366	25.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Dibenzo(a,h)anthracene	44.7J	J	ug/kg	183	22.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Dibenzofuran	ND		ug/kg	366	29.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	732	139	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
2,4-Dichlorophenol	ND		ug/kg	732	29.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Diethylphthalate	ND		ug/kg	366	29.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
2,4-Dimethylphenol	ND		ug/kg	732	54.9	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
Dimethylphthalate	ND		ug/kg	366	25.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A
2,4-Dinitrophenol	ND		ug/kg	732	146	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:00	CGS A

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: **2141551002** Date Collected: 5/3/2016 11:50 Matrix: Solid
Sample ID: **Site 2-Composite 1** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
2,4-Dinitrotoluene	ND		ug/kg	366	32.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
2,6-Dinitrotoluene	ND		ug/kg	366	43.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
1,4-Dioxane	ND		ug/kg	366	179	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
bis(2-Ethylhexyl)phthalate	ND		ug/kg	366	25.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Fluoranthene	194		ug/kg	183	18.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Fluorene	ND		ug/kg	183	22.0	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Hexachlorobenzene	ND		ug/kg	366	40.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Hexachlorobutadiene	ND		ug/kg	366	36.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Hexachlorocyclopentadiene	ND		ug/kg	732	40.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Hexachloroethane	ND		ug/kg	366	32.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Indeno(1,2,3-cd)pyrene	119J	J	ug/kg	183	25.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Isophorone	ND		ug/kg	366	22.0	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
2-Methyl-4,6-dinitrophenol	ND		ug/kg	732	95.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
2-Methylnaphthalene	ND		ug/kg	366	18.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Naphthalene	ND		ug/kg	183	22.0	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
2-Nitroaniline	ND		ug/kg	732	43.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
3-Nitroaniline	ND		ug/kg	732	73.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
4-Nitroaniline	ND		ug/kg	732	29.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Nitrobenzene	ND		ug/kg	366	43.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
2-Nitrophenol	ND		ug/kg	732	40.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
4-Nitrophenol	ND		ug/kg	732	51.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
N-Nitroso-di-n-propylamine	ND		ug/kg	366	29.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
N-Nitrosodiphenylamine	ND		ug/kg	366	29.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Pentachlorophenol	ND		ug/kg	732	95.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Phenanthrene	58.9J	J	ug/kg	183	18.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Phenol	ND		ug/kg	732	36.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Pyrene	148J	J	ug/kg	183	18.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	366	25.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
2,3,4,6-Tetrachlorophenol	ND		ug/kg	732	43.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
2,4,5-Trichlorophenol	ND		ug/kg	732	43.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
2,4,6-Trichlorophenol	ND		ug/kg	732	43.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	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>
2,4,6-Tribromophenol (S)	51.3		%	19 - 132		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
2-Fluorobiphenyl (S)	42		%	40 - 110		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
2-Fluorophenol (S)	85.3		%	26 - 116		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Nitrobenzene-d5 (S)	69		%	38 - 112		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Phenol-d5 (S)	82.8		%	35 - 111		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	
Terphenyl-d14 (S)	41	1	%	45 - 126		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:00	CGS	A	

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

 Lab ID: **2141551002** Date Collected: 5/3/2016 11:50 Matrix: Solid
 Sample ID: **Site 2-Composite 1** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
PCBs										
Aroclor-1016	ND		mg/kg	0.15	0.027	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:46	KJH A
Aroclor-1221	ND		mg/kg	0.15	0.014	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:46	KJH A
Aroclor-1232	ND		mg/kg	0.15	0.027	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:46	KJH A
Aroclor-1242	ND		mg/kg	0.15	0.041	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:46	KJH A
Aroclor-1248	ND		mg/kg	0.15	0.027	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:46	KJH A
Aroclor-1254	ND		mg/kg	0.15	0.027	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:46	KJH A
Aroclor-1260	ND		mg/kg	0.15	0.027	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:46	KJH A
Aroclor-1262	ND		mg/kg	0.15	0.032	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:46	KJH A
Aroclor-1268	ND		mg/kg	0.15	0.041	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:46	KJH 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>
Decachlorobiphenyls (S)	87.8		%	49 - 115		SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:46	KJH A
Tetrachloro-m-xylene (S)	95.8		%	27 - 137		SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:46	KJH A
PESTICIDES										
Aldrin	ND		ug/kg	38.6	12.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
alpha-BHC	ND		ug/kg	38.6	3.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
beta-BHC	ND		ug/kg	38.6	4.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
delta-BHC	ND		ug/kg	38.6	2.9	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
gamma-BHC	ND		ug/kg	38.6	3.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
alpha-Chlordane	ND		ug/kg	38.6	4.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
gamma-Chlordane	ND		ug/kg	38.6	6.6	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
4,4'-DDD	ND		ug/kg	74.9	6.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
4,4'-DDE	ND		ug/kg	74.9	10.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
4,4'-DDT	ND		ug/kg	74.9	8.6	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
Dieldrin	ND		ug/kg	74.9	8.6	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
Endosulfan I	ND		ug/kg	38.6	4.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
Endosulfan II	ND		ug/kg	74.9	15.7	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
Endosulfan Sulfate	ND		ug/kg	74.9	5.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
Endrin	ND		ug/kg	74.9	5.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
Endrin Aldehyde	ND		ug/kg	74.9	8.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
Endrin Ketone	ND		ug/kg	74.9	10.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
Heptachlor	ND		ug/kg	38.6	3.9	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
Heptachlor Epoxide	ND		ug/kg	38.6	3.9	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
Methoxychlor	ND		ug/kg	74.9	10	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
Toxaphene	ND		ug/kg	794	132	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS 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>
Decachlorobiphenyls (S)	87.3		%	30 - 135		SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551002 Date Collected: 5/3/2016 11:50 Matrix: Solid
 Sample ID: Site 2-Composite 1 Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	60.2		%	30 - 111		SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:15	RWS A
HERBICIDES										
2,4-D	ND		ug/kg	148	57.3	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:19	KJH A
2,4-DB	ND		ug/kg	148	79.3	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:19	KJH A
Dalapon	ND		ug/kg	148	37.4	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:19	KJH A
Dicamba	ND		ug/kg	148	52.9	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:19	KJH A
Dichloroprop	ND		ug/kg	148	59.5	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:19	KJH A
Dinoseb	ND		ug/kg	368	74.9	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:19	KJH A
Pentachlorophenol	ND		ug/kg	148	83.7	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:19	KJH A
2,4,5-T	ND		ug/kg	148	61.7	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:19	KJH A
2,4,5-TP	ND		ug/kg	148	68.3	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:19	KJH 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>
2,4-Dichlorophenylacetic acid (S)	69.7		%	36 - 113		SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:19	KJH A
WET CHEMISTRY										
Moisture	55.9		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
pH	6.93	2	pH_Units		1	SW846 9045D			5/7/16 06:28	MSA A
Total Solids	44.1		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
METALS										
Aluminum, Total	1260		mg/kg	5.5	1.8	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Antimony, Total	ND		mg/kg	0.14	0.046	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Arsenic, Total	0.20J	J	mg/kg	0.21	0.069	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Barium, Total	8.5		mg/kg	0.35	0.11	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Beryllium, Total	0.039J	J	mg/kg	0.069	0.023	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Cadmium, Total	ND		mg/kg	0.069	0.023	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Calcium, Total	168		mg/kg	6.9	2.3	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Chromium, Total	1.8		mg/kg	0.14	0.046	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Cobalt, Total	0.30J	J	mg/kg	0.35	0.11	SW846 6020A	5/10/16 13:40	JPS	5/20/16 09:35	MO A1
Copper, Total	1.1		mg/kg	0.35	0.11	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Iron, Total	1290		mg/kg	3.5	1.1	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Lead, Total	1.6		mg/kg	0.14	0.046	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Magnesium, Total	234		mg/kg	6.9	2.3	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Manganese, Total	17.0		mg/kg	0.35	0.11	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Mercury, Total	0.049J	J	mg/kg	0.10	0.032	SW846 7471B	5/16/16 10:30	MNP	5/16/16 13:21	MNP A2
Nickel, Total	1.0		mg/kg	0.35	0.11	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Potassium, Total	102		mg/kg	6.9	2.3	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1
Selenium, Total	0.21J	J	mg/kg	0.35	0.11	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:53	MO A1

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551002 Date Collected: 5/3/2016 11:50 Matrix: Solid
Sample ID: Site 2-Composite 1 Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Silver, Total	ND		mg/kg	0.14	0.046	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:35	MO	A1
Sodium, Total	124		mg/kg	6.9	2.3	SW846 6020A	5/10/16 13:40 JPS	5/19/16 16:53	MO	A1
Thallium, Total	ND		mg/kg	0.069	0.023	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:35	MO	A1
Vanadium, Total	2.0		mg/kg	0.14	0.046	SW846 6020A	5/10/16 13:40 JPS	5/19/16 16:53	MO	A1
Zinc, Total	4.5		mg/kg	0.35	0.11	SW846 6020A	5/10/16 13:40 JPS	5/19/16 16:53	MO	A1

Shannon Butler
Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551003 Date Collected: 5/3/2016 12:30 Matrix: Solid
 Sample ID: Site 2-Composite 2 Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	156	18.7	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Acenaphthylene	ND		ug/kg	156	21.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Acetophenone	ND		ug/kg	312	25.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Anthracene	ND		ug/kg	156	25.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Atrazine	ND		ug/kg	312	34.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Benzaldehyde	ND		ug/kg	624	53.1	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Benzo(a)anthracene	ND		ug/kg	156	15.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Benzo(a)pyrene	19.9J	J	ug/kg	156	12.5	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Benzo(b)fluoranthene	ND		ug/kg	156	15.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Benzo(g,h,i)perylene	19.6J	J	ug/kg	156	15.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Benzo(k)fluoranthene	ND		ug/kg	156	15.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Biphenyl	ND		ug/kg	312	21.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
4-Bromophenyl-phenylether	ND		ug/kg	312	28.1	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Butylbenzylphthalate	ND		ug/kg	312	21.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Caprolactam	ND		ug/kg	624	56.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Carbazole	ND		ug/kg	312	21.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
4-Chloro-3-methylphenol	ND		ug/kg	624	31.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
4-Chloroaniline	ND		ug/kg	624	37.4	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
bis(2-Chloroethoxy)methane	ND		ug/kg	312	28.1	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	312	40.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	312	46.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
2-Chloronaphthalene	ND		ug/kg	312	18.7	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
2-Chlorophenol	ND		ug/kg	624	25.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
4-Chlorophenyl-phenylether	ND		ug/kg	312	25.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Chrysene	ND		ug/kg	156	15.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
mp-Cresol	ND		ug/kg	624	25.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
o-Cresol	ND		ug/kg	624	34.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Di-n-Butylphthalate	ND		ug/kg	312	25.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Di-n-Octylphthalate	ND		ug/kg	312	21.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	156	18.7	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Dibenzofuran	ND		ug/kg	312	25.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	624	119	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
2,4-Dichlorophenol	ND		ug/kg	624	25.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Diethylphthalate	ND		ug/kg	312	25.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
2,4-Dimethylphenol	ND		ug/kg	624	46.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
Dimethylphthalate	ND		ug/kg	312	21.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A
2,4-Dinitrophenol	ND		ug/kg	624	125	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:26	CGS A

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

 Lab ID: **2141551003** Date Collected: 5/3/2016 12:30 Matrix: Solid
 Sample ID: **Site 2-Composite 2** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
2,4-Dinitrotoluene	ND		ug/kg	312	28.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
2,6-Dinitrotoluene	ND		ug/kg	312	37.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
1,4-Dioxane	ND		ug/kg	312	153	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
bis(2-Ethylhexyl)phthalate	ND		ug/kg	312	21.8	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Fluoranthene	31.4J	J	ug/kg	156	15.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Fluorene	ND		ug/kg	156	18.7	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Hexachlorobenzene	ND		ug/kg	312	34.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Hexachlorobutadiene	ND		ug/kg	312	31.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Hexachlorocyclopentadiene	ND		ug/kg	624	34.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Hexachloroethane	ND		ug/kg	312	28.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Indeno(1,2,3-cd)pyrene	ND		ug/kg	156	21.8	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Isophorone	ND		ug/kg	312	18.7	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
2-Methyl-4,6-dinitrophenol	ND		ug/kg	624	81.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
2-Methylnaphthalene	ND		ug/kg	312	15.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Naphthalene	ND		ug/kg	156	18.7	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
2-Nitroaniline	ND		ug/kg	624	37.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
3-Nitroaniline	ND		ug/kg	624	62.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
4-Nitroaniline	ND		ug/kg	624	25.0	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Nitrobenzene	ND		ug/kg	312	37.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
2-Nitrophenol	ND		ug/kg	624	34.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
4-Nitrophenol	ND		ug/kg	624	43.7	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
N-Nitroso-di-n-propylamine	ND		ug/kg	312	25.0	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
N-Nitrosodiphenylamine	ND		ug/kg	312	25.0	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Pentachlorophenol	ND		ug/kg	624	81.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Phenanthrene	16.2J	J	ug/kg	156	15.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Phenol	ND		ug/kg	624	31.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Pyrene	28.3J	J	ug/kg	156	15.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	312	21.8	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
2,3,4,6-Tetrachlorophenol	ND		ug/kg	624	37.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
2,4,5-Trichlorophenol	ND		ug/kg	624	37.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
2,4,6-Trichlorophenol	ND		ug/kg	624	37.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	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>
2,4,6-Tribromophenol (S)	45.9		%	19 - 132		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
2-Fluorobiphenyl (S)	36.5	1	%	40 - 110		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
2-Fluorophenol (S)	78.6		%	26 - 116		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Nitrobenzene-d5 (S)	60.7		%	38 - 112		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Phenol-d5 (S)	77.3		%	35 - 111		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	
Terphenyl-d14 (S)	37.8	2	%	45 - 126		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:26	CGS	A	

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: **2141551003** Date Collected: 5/3/2016 12:30 Matrix: Solid
Sample ID: **Site 2-Composite 2** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
PCBs										
Aroclor-1016	ND		mg/kg	0.11	0.020	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:58	KJH A
Aroclor-1221	ND		mg/kg	0.11	0.010	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:58	KJH A
Aroclor-1232	ND		mg/kg	0.11	0.020	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:58	KJH A
Aroclor-1242	ND		mg/kg	0.11	0.030	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:58	KJH A
Aroclor-1248	ND		mg/kg	0.11	0.020	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:58	KJH A
Aroclor-1254	ND		mg/kg	0.11	0.020	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:58	KJH A
Aroclor-1260	ND		mg/kg	0.11	0.020	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:58	KJH A
Aroclor-1262	ND		mg/kg	0.11	0.023	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:58	KJH A
Aroclor-1268	ND		mg/kg	0.11	0.030	SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:58	KJH 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>
Decachlorobiphenyls (S)	84.2		%	49 - 115		SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:58	KJH A
Tetrachloro-m-xylene (S)	88.1		%	27 - 137		SW846 8082A	5/6/16 04:00	CMA	5/6/16 14:58	KJH A
PESTICIDES										
Aldrin	ND		ug/kg	28.4	9.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
alpha-BHC	ND		ug/kg	28.4	2.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
beta-BHC	ND		ug/kg	28.4	3.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
delta-BHC	ND		ug/kg	28.4	2.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
gamma-BHC	ND		ug/kg	28.4	2.3	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
alpha-Chlordane	ND		ug/kg	28.4	3.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
gamma-Chlordane	ND		ug/kg	28.4	4.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
4,4'-DDD	ND		ug/kg	55.1	4.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
4,4'-DDE	ND		ug/kg	55.1	7.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
4,4'-DDT	ND		ug/kg	55.1	6.3	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
Dieldrin	ND		ug/kg	55.1	6.3	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
Endosulfan I	ND		ug/kg	28.4	3.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
Endosulfan II	ND		ug/kg	55.1	11.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
Endosulfan Sulfate	ND		ug/kg	55.1	3.7	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
Endrin	ND		ug/kg	55.1	4.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
Endrin Aldehyde	ND		ug/kg	55.1	6.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
Endrin Ketone	ND		ug/kg	55.1	7.7	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
Heptachlor	ND		ug/kg	28.4	2.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
Heptachlor Epoxide	ND		ug/kg	28.4	2.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
Methoxychlor	ND		ug/kg	55.1	7.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
Toxaphene	ND		ug/kg	585	96.9	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS 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>
Decachlorobiphenyls (S)	80.4		%	30 - 135		SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A

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 State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551003 Date Collected: 5/3/2016 12:30 Matrix: Solid
 Sample ID: Site 2-Composite 2 Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	54.7		%	30 - 111		SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:31	RWS A
HERBICIDES										
2,4-D	ND		ug/kg	125	48.6	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:56	KJH A
2,4-DB	ND		ug/kg	125	67.3	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:56	KJH A
Dalapon	ND		ug/kg	125	31.8	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:56	KJH A
Dicamba	ND		ug/kg	125	44.8	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:56	KJH A
Dichloroprop	ND		ug/kg	125	50.4	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:56	KJH A
Dinoseb	ND		ug/kg	312	63.5	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:56	KJH A
Pentachlorophenol	ND		ug/kg	125	71.0	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:56	KJH A
2,4,5-T	ND		ug/kg	125	52.3	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:56	KJH A
2,4,5-TP	ND		ug/kg	125	57.9	SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:56	KJH 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>
2,4-Dichlorophenylacetic acid (S)	62.1		%	36 - 113		SW846 8151A	5/9/16 06:20	VLM	5/11/16 15:56	KJH A
WET CHEMISTRY										
Moisture	47.2		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
pH	6.91	3	pH_Units		1	SW846 9045D			5/7/16 06:34	MSA A
Total Solids	52.8		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
METALS										
Aluminum, Total	1530		mg/kg	4.7	1.5	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Antimony, Total	ND		mg/kg	0.12	0.039	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Arsenic, Total	0.27		mg/kg	0.18	0.059	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Barium, Total	9.7		mg/kg	0.29	0.094	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Beryllium, Total	0.053J	J	mg/kg	0.059	0.019	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Cadmium, Total	ND		mg/kg	0.059	0.019	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Calcium, Total	86.2		mg/kg	5.9	1.9	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Chromium, Total	2.0		mg/kg	0.12	0.039	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Cobalt, Total	0.38		mg/kg	0.29	0.094	SW846 6020A	5/10/16 13:40	JPS	5/20/16 09:39	MO A1
Copper, Total	1.6		mg/kg	0.29	0.094	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Iron, Total	1450		mg/kg	2.9	0.94	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Lead, Total	1.4		mg/kg	0.12	0.039	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Magnesium, Total	194		mg/kg	5.9	1.9	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Manganese, Total	21.6		mg/kg	0.29	0.094	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Mercury, Total	0.055J	J	mg/kg	0.082	0.026	SW846 7471B	5/16/16 10:30	MNP	5/16/16 13:22	MNP A2
Nickel, Total	1.2		mg/kg	0.29	0.094	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Potassium, Total	102		mg/kg	5.9	1.9	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1
Selenium, Total	0.16J	J	mg/kg	0.29	0.094	SW846 6020A	5/10/16 13:40	JPS	5/19/16 16:57	MO A1

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551003

Date Collected: 5/3/2016 12:30

Matrix: Solid

Sample ID: Site 2-Composite 2

Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Silver, Total	ND		mg/kg	0.12	0.039	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:39	MO	A1
Sodium, Total	36.8		mg/kg	5.9	1.9	SW846 6020A	5/10/16 13:40 JPS	5/19/16 16:57	MO	A1
Thallium, Total	ND		mg/kg	0.059	0.019	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:39	MO	A1
Vanadium, Total	2.4		mg/kg	0.12	0.039	SW846 6020A	5/10/16 13:40 JPS	5/19/16 16:57	MO	A1
Zinc, Total	3.8		mg/kg	0.29	0.094	SW846 6020A	5/10/16 13:40 JPS	5/19/16 16:57	MO	A1

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: **2141551004** Date Collected: 5/4/2016 09:30 Matrix: Solid
Sample ID: **Site 3-Composite 1** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	234	28.1	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Acenaphthylene	ND		ug/kg	234	32.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Acetophenone	ND		ug/kg	469	37.5	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Anthracene	ND		ug/kg	234	37.5	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Atrazine	ND		ug/kg	469	51.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Benzaldehyde	ND		ug/kg	938	79.7	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Benzo(a)anthracene	ND		ug/kg	234	23.4	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Benzo(a)pyrene	94.8J	J	ug/kg	234	18.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Benzo(b)fluoranthene	146J	J	ug/kg	234	23.4	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Benzo(g,h,i)perylene	87.2J	J	ug/kg	234	23.4	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Benzo(k)fluoranthene	54.7J	J	ug/kg	234	23.4	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Biphenyl	ND		ug/kg	469	32.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
4-Bromophenyl-phenylether	ND		ug/kg	469	42.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Butylbenzylphthalate	ND		ug/kg	469	32.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Caprolactam	ND		ug/kg	938	84.4	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Carbazole	ND		ug/kg	469	32.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
4-Chloro-3-methylphenol	ND		ug/kg	938	46.9	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
4-Chloroaniline	ND		ug/kg	938	56.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
bis(2-Chloroethoxy)methane	ND		ug/kg	469	42.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	469	61.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	469	70.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
2-Chloronaphthalene	ND		ug/kg	469	28.1	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
2-Chlorophenol	ND		ug/kg	938	37.5	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
4-Chlorophenyl-phenylether	ND		ug/kg	469	37.5	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Chrysene	133J	J	ug/kg	234	23.4	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
mp-Cresol	ND		ug/kg	938	37.5	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
o-Cresol	ND		ug/kg	938	51.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Di-n-Butylphthalate	ND		ug/kg	469	37.5	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Di-n-Octylphthalate	ND		ug/kg	469	32.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Dibenzo(a,h)anthracene	34.0J	J	ug/kg	234	28.1	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Dibenzofuran	ND		ug/kg	469	37.5	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	938	178	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
2,4-Dichlorophenol	ND		ug/kg	938	37.5	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Diethylphthalate	ND		ug/kg	469	37.5	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
2,4-Dimethylphenol	ND		ug/kg	938	70.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
Dimethylphthalate	ND		ug/kg	469	32.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A
2,4-Dinitrophenol	ND		ug/kg	938	188	SW846 8270D	5/11/16 02:25	VLM	5/11/16 12:51	CGS A

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

 Lab ID: **2141551004**

Date Collected: 5/4/2016 09:30

Matrix: Solid

 Sample ID: **Site 3-Composite 1**

Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
2,4-Dinitrotoluene	ND		ug/kg	469	42.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
2,6-Dinitrotoluene	ND		ug/kg	469	56.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
1,4-Dioxane	ND		ug/kg	469	230	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
bis(2-Ethylhexyl)phthalate	ND		ug/kg	469	32.8	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Fluoranthene	186J	J	ug/kg	234	23.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Fluorene	ND		ug/kg	234	28.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Hexachlorobenzene	ND		ug/kg	469	51.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Hexachlorobutadiene	ND		ug/kg	469	46.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Hexachlorocyclopentadiene	ND		ug/kg	938	51.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Hexachloroethane	ND		ug/kg	469	42.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Indeno(1,2,3-cd)pyrene	97.2J	J	ug/kg	234	32.8	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Isophorone	ND		ug/kg	469	28.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
2-Methyl-4,6-dinitrophenol	ND		ug/kg	938	122	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
2-Methylnaphthalene	ND		ug/kg	469	23.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Naphthalene	ND		ug/kg	234	28.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
2-Nitroaniline	ND		ug/kg	938	56.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
3-Nitroaniline	ND		ug/kg	938	93.8	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
4-Nitroaniline	ND		ug/kg	938	37.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Nitrobenzene	ND		ug/kg	469	56.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
2-Nitrophenol	ND		ug/kg	938	51.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
4-Nitrophenol	ND		ug/kg	938	65.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
N-Nitroso-di-n-propylamine	ND		ug/kg	469	37.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
N-Nitrosodiphenylamine	ND		ug/kg	469	37.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Pentachlorophenol	ND		ug/kg	938	122	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Phenanthrene	70.9J	J	ug/kg	234	23.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Phenol	ND		ug/kg	938	46.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Pyrene	122J	J	ug/kg	234	23.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	469	32.8	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
2,3,4,6-Tetrachlorophenol	ND		ug/kg	938	56.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
2,4,5-Trichlorophenol	ND		ug/kg	938	56.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
2,4,6-Trichlorophenol	ND		ug/kg	938	56.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	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>
2,4,6-Tribromophenol (S)	42.6		%	19 - 132		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
2-Fluorobiphenyl (S)	31	1	%	40 - 110		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
2-Fluorophenol (S)	75.5		%	26 - 116		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Nitrobenzene-d5 (S)	58.8		%	38 - 112		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Phenol-d5 (S)	75		%	35 - 111		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	
Terphenyl-d14 (S)	34.7	2	%	45 - 126		SW846 8270D	5/11/16 02:25 VLM	5/11/16 12:51	CGS	A	

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 State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551004 Date Collected: 5/4/2016 09:30 Matrix: Solid
 Sample ID: Site 3-Composite 1 Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
PCBs										
Aroclor-1016	ND		mg/kg	0.15	0.027	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:09	KJH A
Aroclor-1221	ND		mg/kg	0.15	0.013	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:09	KJH A
Aroclor-1232	ND		mg/kg	0.15	0.027	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:09	KJH A
Aroclor-1242	ND		mg/kg	0.15	0.040	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:09	KJH A
Aroclor-1248	ND		mg/kg	0.15	0.027	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:09	KJH A
Aroclor-1254	ND		mg/kg	0.15	0.027	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:09	KJH A
Aroclor-1260	ND		mg/kg	0.15	0.027	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:09	KJH A
Aroclor-1262	ND		mg/kg	0.15	0.031	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:09	KJH A
Aroclor-1268	ND		mg/kg	0.15	0.040	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:09	KJH 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>
Decachlorobiphenyls (S)	76.9		%	49 - 115		SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:09	KJH A
Tetrachloro-m-xylene (S)	91.6		%	27 - 137		SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:09	KJH A
PESTICIDES										
Aldrin	ND		ug/kg	38.0	12.3	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
alpha-BHC	ND		ug/kg	38.0	3.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
beta-BHC	ND		ug/kg	38.0	4.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
delta-BHC	ND		ug/kg	38.0	2.9	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
gamma-BHC	ND		ug/kg	38.0	3.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
alpha-Chlordane	ND		ug/kg	38.0	4.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
gamma-Chlordane	ND		ug/kg	38.0	6.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
4,4'-DDD	ND		ug/kg	73.8	6.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
4,4'-DDE	ND		ug/kg	73.8	10.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
4,4'-DDT	ND		ug/kg	73.8	8.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
Dieldrin	ND		ug/kg	73.8	8.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
Endosulfan I	ND		ug/kg	38.0	4.7	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
Endosulfan II	ND		ug/kg	73.8	15.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
Endosulfan Sulfate	ND		ug/kg	73.8	4.9	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
Endrin	ND		ug/kg	73.8	5.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
Endrin Aldehyde	ND		ug/kg	73.8	8.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
Endrin Ketone	ND		ug/kg	73.8	10.3	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
Heptachlor	ND		ug/kg	38.0	3.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
Heptachlor Epoxide	ND		ug/kg	38.0	3.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
Methoxychlor	ND		ug/kg	73.8	9.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
Toxaphene	ND		ug/kg	783	130	SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS 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>
Decachlorobiphenyls (S)	96.6		%	30 - 135		SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551004 Date Collected: 5/4/2016 09:30 Matrix: Solid
 Sample ID: Site 3-Composite 1 Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	121	3	%	30 - 111		SW846 8081B	5/6/16 04:00	CMA	5/6/16 16:46	RWS A
HERBICIDES										
2,4-D	ND		ug/kg	169	65.5	SW846 8151A	5/9/16 06:20	VLM	5/11/16 16:33	KJH A
2,4-DB	ND		ug/kg	169	90.7	SW846 8151A	5/9/16 06:20	VLM	5/11/16 16:33	KJH A
Dalapon	ND		ug/kg	169	42.8	SW846 8151A	5/9/16 06:20	VLM	5/11/16 16:33	KJH A
Dicamba	ND		ug/kg	169	60.5	SW846 8151A	5/9/16 06:20	VLM	5/11/16 16:33	KJH A
Dichloroprop	ND		ug/kg	169	68.0	SW846 8151A	5/9/16 06:20	VLM	5/11/16 16:33	KJH A
Dinoseb	ND		ug/kg	421	85.6	SW846 8151A	5/9/16 06:20	VLM	5/11/16 16:33	KJH A
Pentachlorophenol	ND		ug/kg	169	95.7	SW846 8151A	5/9/16 06:20	VLM	5/11/16 16:33	KJH A
2,4,5-T	ND		ug/kg	169	70.5	SW846 8151A	5/9/16 06:20	VLM	5/11/16 16:33	KJH A
2,4,5-TP	ND		ug/kg	169	78.1	SW846 8151A	5/9/16 06:20	VLM	5/11/16 16:33	KJH 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>
2,4-Dichlorophenylacetic acid (S)	65.5		%	36 - 113		SW846 8151A	5/9/16 06:20	VLM	5/11/16 16:33	KJH A
WET CHEMISTRY										
Moisture	61.5		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
pH	6.87	4	pH_Units		1	SW846 9045D			5/7/16 06:38	MSA A
Total Solids	38.5		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
METALS										
Aluminum, Total	5360		mg/kg	6.4	2.1	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Antimony, Total	0.071J	J	mg/kg	0.16	0.053	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Arsenic, Total	0.90		mg/kg	0.24	0.080	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Barium, Total	48.6		mg/kg	0.40	0.13	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Beryllium, Total	0.19		mg/kg	0.080	0.027	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Cadmium, Total	0.096		mg/kg	0.080	0.027	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Calcium, Total	694		mg/kg	8.0	2.7	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Chromium, Total	10.1		mg/kg	0.16	0.053	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Cobalt, Total	1.5		mg/kg	0.40	0.13	SW846 6020A	5/10/16 13:40	JPS	5/20/16 09:43	MO A1
Copper, Total	5.3		mg/kg	0.40	0.13	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Iron, Total	6070		mg/kg	4.0	1.3	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Lead, Total	8.9		mg/kg	0.16	0.053	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Magnesium, Total	1020		mg/kg	8.0	2.7	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Manganese, Total	77.2		mg/kg	0.40	0.13	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Mercury, Total	0.063J	J	mg/kg	0.12	0.040	SW846 7471B	5/16/16 10:30	MNP	5/16/16 13:23	MNP A2
Nickel, Total	5.3		mg/kg	0.40	0.13	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Potassium, Total	398		mg/kg	8.0	2.7	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1
Selenium, Total	0.74		mg/kg	0.40	0.13	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:01	MO A1

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: **2141551004**
Sample ID: **Site 3-Composite 1**

Date Collected: 5/4/2016 09:30 Matrix: Solid
Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Silver, Total	ND		mg/kg	0.16	0.053	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:43	MO	A1
Sodium, Total	132		mg/kg	8.0	2.7	SW846 6020A	5/10/16 13:40 JPS	5/19/16 17:01	MO	A1
Thallium, Total	0.031J	J	mg/kg	0.080	0.027	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:43	MO	A1
Vanadium, Total	11.0		mg/kg	0.16	0.053	SW846 6020A	5/10/16 13:40 JPS	5/19/16 17:01	MO	A1
Zinc, Total	25.6		mg/kg	0.40	0.13	SW846 6020A	5/10/16 13:40 JPS	5/19/16 17:01	MO	A1



Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: **2141551005** Date Collected: 5/4/2016 10:15 Matrix: Solid
Sample ID: **Site 3-Composite 2** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	196	23.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Acenaphthylene	ND		ug/kg	196	27.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Acetophenone	ND		ug/kg	393	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Anthracene	ND		ug/kg	196	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Atrazine	ND		ug/kg	393	43.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Benzaldehyde	ND		ug/kg	786	66.8	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Benzo(a)anthracene	ND		ug/kg	196	19.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Benzo(a)pyrene	26.6J	J	ug/kg	196	15.7	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	196	19.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Benzo(g,h,i)perylene	22.2J	J	ug/kg	196	19.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	196	19.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Biphenyl	ND		ug/kg	393	27.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
4-Bromophenyl-phenylether	ND		ug/kg	393	35.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Butylbenzylphthalate	ND		ug/kg	393	27.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Caprolactam	ND		ug/kg	786	70.7	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Carbazole	ND		ug/kg	393	27.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
4-Chloro-3-methylphenol	ND		ug/kg	786	39.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
4-Chloroaniline	ND		ug/kg	786	47.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
bis(2-Chloroethoxy)methane	ND		ug/kg	393	35.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	393	51.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	393	58.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
2-Chloronaphthalene	ND		ug/kg	393	23.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
2-Chlorophenol	ND		ug/kg	786	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
4-Chlorophenyl-phenylether	ND		ug/kg	393	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Chrysene	ND		ug/kg	196	19.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
mp-Cresol	ND		ug/kg	786	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
o-Cresol	ND		ug/kg	786	43.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Di-n-Butylphthalate	ND		ug/kg	393	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Di-n-Octylphthalate	ND		ug/kg	393	27.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	196	23.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Dibenzofuran	ND		ug/kg	393	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	786	149	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
2,4-Dichlorophenol	ND		ug/kg	786	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Diethylphthalate	ND		ug/kg	393	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
2,4-Dimethylphenol	ND		ug/kg	786	58.9	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
Dimethylphthalate	ND		ug/kg	393	27.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A
2,4-Dinitrophenol	ND		ug/kg	786	157	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: **2141551005** Date Collected: 5/4/2016 10:15 Matrix: Solid
 Sample ID: **Site 3-Composite 2** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
2,4-Dinitrotoluene	ND		ug/kg	393	35.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
2,6-Dinitrotoluene	ND		ug/kg	393	47.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
1,4-Dioxane	ND		ug/kg	393	192	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
bis(2-Ethylhexyl)phthalate	ND		ug/kg	393	27.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Fluoranthene	38.1J	J	ug/kg	196	19.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Fluorene	ND		ug/kg	196	23.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Hexachlorobenzene	ND		ug/kg	393	43.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Hexachlorobutadiene	ND		ug/kg	393	39.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Hexachlorocyclopentadiene	ND		ug/kg	786	43.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Hexachloroethane	ND		ug/kg	393	35.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Indeno(1,2,3-cd)pyrene	ND		ug/kg	196	27.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Isophorone	ND		ug/kg	393	23.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
2-Methyl-4,6-dinitrophenol	ND		ug/kg	786	102	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
2-Methylnaphthalene	ND		ug/kg	393	19.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Naphthalene	ND		ug/kg	196	23.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
2-Nitroaniline	ND		ug/kg	786	47.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
3-Nitroaniline	ND		ug/kg	786	78.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
4-Nitroaniline	ND		ug/kg	786	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Nitrobenzene	ND		ug/kg	393	47.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
2-Nitrophenol	ND		ug/kg	786	43.2	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
4-Nitrophenol	ND		ug/kg	786	55.0	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
N-Nitroso-di-n-propylamine	ND		ug/kg	393	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
N-Nitrosodiphenylamine	ND		ug/kg	393	31.4	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Pentachlorophenol	ND		ug/kg	786	102	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Phenanthrene	ND		ug/kg	196	19.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Phenol	ND		ug/kg	786	39.3	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Pyrene	40.2J	J	ug/kg	196	19.6	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	393	27.5	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
2,3,4,6-Tetrachlorophenol	ND		ug/kg	786	47.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
2,4,5-Trichlorophenol	ND		ug/kg	786	47.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
2,4,6-Trichlorophenol	ND		ug/kg	786	47.1	SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	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>
2,4,6-Tribromophenol (S)	40.2		%	19 - 132		SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
2-Fluorobiphenyl (S)	28.3	1	%	40 - 110		SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
2-Fluorophenol (S)	82.5		%	26 - 116		SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Nitrobenzene-d5 (S)	62.2		%	38 - 112		SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Phenol-d5 (S)	81		%	35 - 111		SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	
Terphenyl-d14 (S)	35	2	%	45 - 126		SW846 8270D	5/11/16 02:25 VLM	5/11/16 13:17	CGS	A	

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

 Lab ID: **2141551005** Date Collected: 5/4/2016 10:15 Matrix: Solid
 Sample ID: **Site 3-Composite 2** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
PCBs										
Aroclor-1016	ND		mg/kg	0.11	0.019	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:21	KJH A
Aroclor-1221	ND		mg/kg	0.11	0.0096	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:21	KJH A
Aroclor-1232	ND		mg/kg	0.11	0.019	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:21	KJH A
Aroclor-1242	ND		mg/kg	0.11	0.029	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:21	KJH A
Aroclor-1248	ND		mg/kg	0.11	0.019	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:21	KJH A
Aroclor-1254	0.039J	J	mg/kg	0.11	0.019	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:21	KJH A
Aroclor-1260	0.025J	J	mg/kg	0.11	0.019	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:21	KJH A
Aroclor-1262	ND		mg/kg	0.11	0.022	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:21	KJH A
Aroclor-1268	ND		mg/kg	0.11	0.029	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:21	KJH 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>
Decachlorobiphenyls (S)	78.7		%	49 - 115		SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:21	KJH A
Tetrachloro-m-xylene (S)	88.1		%	27 - 137		SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:21	KJH A
PESTICIDES										
Aldrin	ND		ug/kg	27.2	8.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
alpha-BHC	ND		ug/kg	27.2	2.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
beta-BHC	ND		ug/kg	27.2	2.9	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
delta-BHC	ND		ug/kg	27.2	2.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
gamma-BHC	ND		ug/kg	27.2	2.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
alpha-Chlordane	ND		ug/kg	27.2	2.9	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
gamma-Chlordane	ND		ug/kg	27.2	4.6	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
4,4'-DDD	ND		ug/kg	52.9	4.3	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
4,4'-DDE	ND		ug/kg	52.9	7.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
4,4'-DDT	ND		ug/kg	52.9	6.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
Dieldrin	ND		ug/kg	52.9	6.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
Endosulfan I	ND		ug/kg	27.2	3.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
Endosulfan II	ND		ug/kg	52.9	11.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
Endosulfan Sulfate	ND		ug/kg	52.9	3.5	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
Endrin	ND		ug/kg	52.9	3.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
Endrin Aldehyde	ND		ug/kg	52.9	5.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
Endrin Ketone	ND		ug/kg	52.9	7.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
Heptachlor	ND		ug/kg	27.2	2.7	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
Heptachlor Epoxide	ND		ug/kg	27.2	2.7	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
Methoxychlor	ND		ug/kg	52.9	7.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
Toxaphene	ND		ug/kg	561	92.9	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS 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>
Decachlorobiphenyls (S)	87.7		%	30 - 135		SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

 Lab ID: **2141551005** Date Collected: 5/4/2016 10:15 Matrix: Solid
 Sample ID: **Site 3-Composite 2** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	58.7		%	30 - 111		SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:02	RWS A
HERBICIDES										
2,4-D	ND		ug/kg	146	56.6	SW846 8151A	5/9/16 06:20	VLM	5/11/16 17:10	KJH A
2,4-DB	ND		ug/kg	146	78.4	SW846 8151A	5/9/16 06:20	VLM	5/11/16 17:10	KJH A
Dalapon	ND		ug/kg	146	37.0	SW846 8151A	5/9/16 06:20	VLM	5/11/16 17:10	KJH A
Dicamba	ND		ug/kg	146	52.3	SW846 8151A	5/9/16 06:20	VLM	5/11/16 17:10	KJH A
Dichloroprop	ND		ug/kg	146	58.8	SW846 8151A	5/9/16 06:20	VLM	5/11/16 17:10	KJH A
Dinoseb	ND		ug/kg	364	74.1	SW846 8151A	5/9/16 06:20	VLM	5/11/16 17:10	KJH A
Pentachlorophenol	ND		ug/kg	146	82.8	SW846 8151A	5/9/16 06:20	VLM	5/11/16 17:10	KJH A
2,4,5-T	ND		ug/kg	146	61.0	SW846 8151A	5/9/16 06:20	VLM	5/11/16 17:10	KJH A
2,4,5-TP	ND		ug/kg	146	67.5	SW846 8151A	5/9/16 06:20	VLM	5/11/16 17:10	KJH 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>
2,4-Dichlorophenylacetic acid (S)	71.9		%	36 - 113		SW846 8151A	5/9/16 06:20	VLM	5/11/16 17:10	KJH A
WET CHEMISTRY										
Moisture	54.5		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
pH	6.91	3	pH_Units		1	SW846 9045D			5/7/16 06:41	MSA A
Total Solids	45.5		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
METALS										
Aluminum, Total	47700		mg/kg	74.6	24.2	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Antimony, Total	ND		mg/kg	1.9	0.62	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Arsenic, Total	7.2		mg/kg	2.8	0.93	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Barium, Total	339		mg/kg	4.7	1.5	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Beryllium, Total	1.6		mg/kg	0.93	0.31	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Cadmium, Total	0.55J	J	mg/kg	0.93	0.31	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Calcium, Total	3850		mg/kg	93.2	30.8	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Chromium, Total	76.1		mg/kg	1.9	0.62	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Cobalt, Total	12.6		mg/kg	4.7	1.5	SW846 6020A	5/10/16 13:40	JPS	5/20/16 09:47	MO A1
Copper, Total	43.4		mg/kg	4.7	1.5	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Iron, Total	47200		mg/kg	46.6	14.9	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Lead, Total	76.6		mg/kg	1.9	0.62	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Magnesium, Total	7790		mg/kg	93.2	30.8	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Manganese, Total	702		mg/kg	4.7	1.5	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Mercury, Total	0.062J	J	mg/kg	0.10	0.033	SW846 7471B	5/16/16 10:30	MNP	5/16/16 13:24	MNP A2
Nickel, Total	40.9		mg/kg	4.7	1.5	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Potassium, Total	3620		mg/kg	93.2	30.8	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1
Selenium, Total	5.5		mg/kg	4.7	1.5	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:05	MO A1

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551005

Date Collected: 5/4/2016 10:15

Matrix: Solid

Sample ID: Site 3-Composite 2

Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Silver, Total	ND		mg/kg	1.9	0.62	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:47	MO	A1
Sodium, Total	274		mg/kg	93.2	30.8	SW846 6020A	5/10/16 13:40 JPS	5/19/16 17:05	MO	A1
Thallium, Total	ND		mg/kg	0.93	0.31	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:47	MO	A1
Vanadium, Total	90.4		mg/kg	1.9	0.62	SW846 6020A	5/10/16 13:40 JPS	5/19/16 17:05	MO	A1
Zinc, Total	165		mg/kg	4.7	1.5	SW846 6020A	5/10/16 13:40 JPS	5/19/16 17:05	MO	A1

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551006 Date Collected: 5/4/2016 11:00 Matrix: Solid
 Sample ID: Site 3-Composite 3 Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	176	21.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Acenaphthylene	ND		ug/kg	176	24.7	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Acetophenone	ND		ug/kg	353	28.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Anthracene	ND		ug/kg	176	28.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Atrazine	ND		ug/kg	353	38.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Benzaldehyde	ND		ug/kg	706	60.0	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Benzo(a)anthracene	46.8J	J	ug/kg	176	17.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Benzo(a)pyrene	ND		ug/kg	176	14.1	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Benzo(b)fluoranthene	ND		ug/kg	176	17.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Benzo(g,h,i)perylene	50.0J	J	ug/kg	176	17.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Benzo(k)fluoranthene	ND		ug/kg	176	17.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Biphenyl	ND		ug/kg	353	24.7	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
4-Bromophenyl-phenylether	ND		ug/kg	353	31.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Butylbenzylphthalate	ND		ug/kg	353	24.7	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Caprolactam	ND		ug/kg	706	63.5	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Carbazole	ND		ug/kg	353	24.7	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
4-Chloro-3-methylphenol	ND		ug/kg	706	35.3	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
4-Chloroaniline	ND		ug/kg	706	42.4	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
bis(2-Chloroethoxy)methane	ND		ug/kg	353	31.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	353	45.9	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	353	52.9	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
2-Chloronaphthalene	ND		ug/kg	353	21.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
2-Chlorophenol	ND		ug/kg	706	28.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
4-Chlorophenyl-phenylether	ND		ug/kg	353	28.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Chrysene	89.6J	J	ug/kg	176	17.6	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
mp-Cresol	ND		ug/kg	706	28.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
o-Cresol	ND		ug/kg	706	38.8	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Di-n-Butylphthalate	ND		ug/kg	353	28.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Di-n-Octylphthalate	ND		ug/kg	353	24.7	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	176	21.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Dibenzofuran	ND		ug/kg	353	28.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	706	134	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
2,4-Dichlorophenol	ND		ug/kg	706	28.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Diethylphthalate	ND		ug/kg	353	28.2	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
2,4-Dimethylphenol	ND		ug/kg	706	52.9	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
Dimethylphthalate	ND		ug/kg	353	24.7	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A
2,4-Dinitrophenol	ND		ug/kg	706	141	SW846 8270D	5/11/16 02:25	VLM	5/11/16 13:43	CGS A

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

 Lab ID: **2141551006** Date Collected: 5/4/2016 11:00 Matrix: Solid
 Sample ID: **Site 3-Composite 3** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
2,4-Dinitrotoluene	ND		ug/kg	353	31.8	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
2,6-Dinitrotoluene	ND		ug/kg	353	42.4	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
1,4-Dioxane	ND		ug/kg	353	173	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
bis(2-Ethylhexyl)phthalate	ND		ug/kg	353	24.7	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Fluoranthene	93.8J	J	ug/kg	176	17.6	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Fluorene	ND		ug/kg	176	21.2	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Hexachlorobenzene	ND		ug/kg	353	38.8	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Hexachlorobutadiene	ND		ug/kg	353	35.3	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Hexachlorocyclopentadiene	ND		ug/kg	706	38.8	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Hexachloroethane	ND		ug/kg	353	31.8	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Indeno(1,2,3-cd)pyrene	ND		ug/kg	176	24.7	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Isophorone	ND		ug/kg	353	21.2	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
2-Methyl-4,6-dinitrophenol	ND		ug/kg	706	91.8	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
2-Methylnaphthalene	ND		ug/kg	353	17.6	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Naphthalene	ND		ug/kg	176	21.2	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
2-Nitroaniline	ND		ug/kg	706	42.4	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
3-Nitroaniline	ND		ug/kg	706	70.6	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
4-Nitroaniline	ND		ug/kg	706	28.2	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Nitrobenzene	ND		ug/kg	353	42.4	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
2-Nitrophenol	ND		ug/kg	706	38.8	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
4-Nitrophenol	ND		ug/kg	706	49.4	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
N-Nitroso-di-n-propylamine	ND		ug/kg	353	28.2	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
N-Nitrosodiphenylamine	ND		ug/kg	353	28.2	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Pentachlorophenol	ND		ug/kg	706	91.8	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Phenanthrene	40.4J	J	ug/kg	176	17.6	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Phenol	ND		ug/kg	706	35.3	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Pyrene	76.2J	J	ug/kg	176	17.6	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	353	24.7	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
2,3,4,6-Tetrachlorophenol	ND		ug/kg	706	42.4	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
2,4,5-Trichlorophenol	ND		ug/kg	706	42.4	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
2,4,6-Trichlorophenol	ND		ug/kg	706	42.4	SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	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>
2,4,6-Tribromophenol (S)	63.2		%	19 - 132		SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
2-Fluorobiphenyl (S)	55.8		%	40 - 110		SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
2-Fluorophenol (S)	84.8		%	26 - 116		SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Nitrobenzene-d5 (S)	73.6		%	38 - 112		SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Phenol-d5 (S)	83.5		%	35 - 111		SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	
Terphenyl-d14 (S)	54.2		%	45 - 126		SW846 8270D	5/11/16 02:25	VLM 5/11/16 13:43	CGS	A	

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

 Lab ID: **2141551006** Date Collected: 5/4/2016 11:00 Matrix: Solid
 Sample ID: **Site 3-Composite 3** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
PCBs										
Aroclor-1016	ND		mg/kg	0.13	0.024	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:32	KJH A
Aroclor-1221	ND		mg/kg	0.13	0.012	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:32	KJH A
Aroclor-1232	ND		mg/kg	0.13	0.024	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:32	KJH A
Aroclor-1242	ND		mg/kg	0.13	0.036	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:32	KJH A
Aroclor-1248	ND		mg/kg	0.13	0.024	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:32	KJH A
Aroclor-1254	ND		mg/kg	0.13	0.024	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:32	KJH A
Aroclor-1260	ND		mg/kg	0.13	0.024	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:32	KJH A
Aroclor-1262	ND		mg/kg	0.13	0.028	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:32	KJH A
Aroclor-1268	ND		mg/kg	0.13	0.036	SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:32	KJH 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>
Decachlorobiphenyls (S)	79.6		%	49 - 115		SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:32	KJH A
Tetrachloro-m-xylene (S)	87		%	27 - 137		SW846 8082A	5/6/16 04:00	CMA	5/6/16 15:32	KJH A
PESTICIDES										
Aldrin	ND		ug/kg	33.8	10.9	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
alpha-BHC	ND		ug/kg	33.8	3.0	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
beta-BHC	ND		ug/kg	33.8	3.6	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
delta-BHC	ND		ug/kg	33.8	2.6	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
gamma-BHC	ND		ug/kg	33.8	2.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
alpha-Chlordane	ND		ug/kg	33.8	3.6	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
gamma-Chlordane	ND		ug/kg	33.8	5.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
4,4'-DDD	ND		ug/kg	65.6	5.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
4,4'-DDE	ND		ug/kg	65.6	8.9	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
4,4'-DDT	ND		ug/kg	65.6	7.6	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
Dieldrin	ND		ug/kg	65.6	7.6	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
Endosulfan I	ND		ug/kg	33.8	4.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
Endosulfan II	ND		ug/kg	65.6	13.7	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
Endosulfan Sulfate	ND		ug/kg	65.6	4.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
Endrin	ND		ug/kg	65.6	4.8	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
Endrin Aldehyde	ND		ug/kg	65.6	7.2	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
Endrin Ketone	ND		ug/kg	65.6	9.1	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
Heptachlor	ND		ug/kg	33.8	3.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
Heptachlor Epoxide	ND		ug/kg	33.8	3.4	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
Methoxychlor	ND		ug/kg	65.6	8.7	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
Toxaphene	ND		ug/kg	696	115	SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS 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>
Decachlorobiphenyls (S)	76.2		%	30 - 135		SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

 Lab ID: **2141551006** Date Collected: 5/4/2016 11:00 Matrix: Solid
 Sample ID: **Site 3-Composite 3** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	69.5		%	30 - 111		SW846 8081B	5/6/16 04:00	CMA	5/6/16 17:17	RWS A
HERBICIDES										
2,4-D	ND		ug/kg	137	53.0	SW846 8151A	5/9/16 06:20	VLM	5/12/16 07:47	KJH A
2,4-DB	ND		ug/kg	137	73.4	SW846 8151A	5/9/16 06:20	VLM	5/12/16 07:47	KJH A
Dalapon	ND		ug/kg	137	34.7	SW846 8151A	5/9/16 06:20	VLM	5/12/16 07:47	KJH A
Dicamba	ND		ug/kg	137	49.0	SW846 8151A	5/9/16 06:20	VLM	5/12/16 07:47	KJH A
Dichloroprop	ND		ug/kg	137	55.1	SW846 8151A	5/9/16 06:20	VLM	5/12/16 07:47	KJH A
Dinoseb	ND		ug/kg	341	69.4	SW846 8151A	5/9/16 06:20	VLM	5/12/16 07:47	KJH A
Pentachlorophenol	ND		ug/kg	137	77.5	SW846 8151A	5/9/16 06:20	VLM	5/12/16 07:47	KJH A
2,4,5-T	ND		ug/kg	137	57.1	SW846 8151A	5/9/16 06:20	VLM	5/12/16 07:47	KJH A
2,4,5-TP	ND		ug/kg	137	63.2	SW846 8151A	5/9/16 06:20	VLM	5/12/16 07:47	KJH 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>
2,4-Dichlorophenylacetic acid (S)	69.3		%	36 - 113		SW846 8151A	5/9/16 06:20	VLM	5/12/16 07:47	KJH A
WET CHEMISTRY										
Moisture	52.2		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
pH	6.85	1	pH_Units		1	SW846 9045D			5/7/16 06:45	MSA A
Total Solids	47.8		%	0.1	0.01	S2540G-11			5/11/16 10:52	SLC A
METALS										
Aluminum, Total	46300		mg/kg	76.2	24.7	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Antimony, Total	ND		mg/kg	1.9	0.63	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Arsenic, Total	7.9		mg/kg	2.9	0.95	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Barium, Total	312		mg/kg	4.8	1.5	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Beryllium, Total	1.6		mg/kg	0.95	0.31	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Cadmium, Total	0.42J	J	mg/kg	0.95	0.31	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Calcium, Total	2690		mg/kg	95.2	31.4	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Chromium, Total	68.5		mg/kg	1.9	0.63	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Cobalt, Total	12.3		mg/kg	4.8	1.5	SW846 6020A	5/10/16 13:40	JPS	5/20/16 09:51	MO A1
Copper, Total	45.2		mg/kg	4.8	1.5	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Iron, Total	47900		mg/kg	47.6	15.2	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Lead, Total	48.7		mg/kg	1.9	0.63	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Magnesium, Total	6500		mg/kg	95.2	31.4	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Manganese, Total	741		mg/kg	4.8	1.5	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Mercury, Total	0.067J	J	mg/kg	0.10	0.034	SW846 7471B	5/16/16 10:30	MNP	5/16/16 13:25	MNP A2
Nickel, Total	41.3		mg/kg	4.8	1.5	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Potassium, Total	3060		mg/kg	95.2	31.4	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1
Selenium, Total	7.6		mg/kg	4.8	1.5	SW846 6020A	5/10/16 13:40	JPS	5/19/16 17:09	MO A1

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NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
 State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551006 Date Collected: 5/4/2016 11:00 Matrix: Solid
 Sample ID: Site 3-Composite 3 Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Silver, Total	ND		mg/kg	1.9	0.63	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:51	MO	A1
Sodium, Total	164		mg/kg	95.2	31.4	SW846 6020A	5/10/16 13:40 JPS	5/19/16 17:09	MO	A1
Thallium, Total	ND		mg/kg	0.95	0.31	SW846 6020A	5/10/16 13:40 JPS	5/20/16 09:51	MO	A1
Vanadium, Total	82.9		mg/kg	1.9	0.63	SW846 6020A	5/10/16 13:40 JPS	5/19/16 17:09	MO	A1
Zinc, Total	141		mg/kg	4.8	1.5	SW846 6020A	5/10/16 13:40 JPS	5/19/16 17:09	MO	A1

Shannon Butler
 Ms. Shannon Butler
 Project Coordinator

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 State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: **2141551007** Date Collected: 5/3/2016 14:00 Matrix: Water
 Sample ID: **Equipment Blank** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/L	1.6	0.16	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Acenaphthylene	ND		ug/L	1.6	0.21	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Acetophenone	ND		ug/L	3.3	0.26	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Anthracene	ND		ug/L	1.6	0.16	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Atrazine	ND		ug/L	3.3	0.26	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Benzaldehyde	ND		ug/L	3.3	0.28	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Benzo(a)anthracene	ND		ug/L	1.6	0.14	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Benzo(a)pyrene	ND		ug/L	1.6	0.24	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Benzo(b)fluoranthene	ND		ug/L	1.6	0.12	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Benzo(g,h,i)perylene	ND		ug/L	1.6	0.24	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Benzo(k)fluoranthene	ND		ug/L	1.6	0.21	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Biphenyl	ND		ug/L	3.3	0.18	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
4-Bromophenyl-phenylether	ND		ug/L	3.3	0.18	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Butylbenzylphthalate	ND		ug/L	3.3	0.12	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Caprolactam	ND		ug/L	3.3	0.30	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Carbazole	ND		ug/L	3.3	0.13	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
4-Chloro-3-methylphenol	ND		ug/L	3.3	0.21	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
4-Chloroaniline	ND		ug/L	3.3	0.23	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
bis(2-Chloroethoxy)methane	ND		ug/L	3.3	0.23	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
bis(2-Chloroethyl)ether	ND		ug/L	3.3	0.18	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/L	3.3	0.30	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
2-Chloronaphthalene	ND		ug/L	3.3	0.20	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
2-Chlorophenol	ND		ug/L	3.3	0.36	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
4-Chlorophenyl-phenylether	ND		ug/L	3.3	0.15	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Chrysene	ND		ug/L	1.6	0.13	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
mp-Cresol	ND		ug/L	3.3	0.16	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
o-Cresol	ND		ug/L	3.3	0.27	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Di-n-Butylphthalate	ND		ug/L	3.3	0.15	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Di-n-Octylphthalate	ND		ug/L	3.3	0.11	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Dibenzo(a,h)anthracene	ND		ug/L	1.6	0.23	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Dibenzofuran	ND		ug/L	3.3	0.12	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
3,3-Dichlorobenzidine	ND		ug/L	3.3	0.52	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
2,4-Dichlorophenol	ND		ug/L	3.3	0.35	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Diethylphthalate	ND		ug/L	3.3	0.20	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
2,4-Dimethylphenol	ND		ug/L	3.3	0.23	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
Dimethylphthalate	ND		ug/L	3.3	0.15	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A
2,4-Dinitrophenol	ND		ug/L	6.5	2.0	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A

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 State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551007 Date Collected: 5/3/2016 14:00 Matrix: Water
 Sample ID: Equipment Blank Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
2,4-Dinitrotoluene	ND		ug/L	3.3	0.13	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
2,6-Dinitrotoluene	ND		ug/L	3.3	0.23	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
1,4-Dioxane	ND		ug/L	3.3	0.75	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
bis(2-Ethylhexyl)phthalate	ND		ug/L	3.3	0.24	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Fluoranthene	ND		ug/L	1.6	0.18	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Fluorene	ND		ug/L	1.6	0.22	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Hexachlorobenzene	ND		ug/L	3.3	0.25	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Hexachlorobutadiene	ND		ug/L	3.3	0.21	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Hexachlorocyclopentadiene	ND		ug/L	3.3	0.18	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Hexachloroethane	ND		ug/L	3.3	0.33	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Indeno(1,2,3-cd)pyrene	ND		ug/L	1.6	0.11	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Isophorone	ND		ug/L	3.3	0.16	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
2-Methyl-4,6-dinitrophenol	ND		ug/L	6.5	0.36	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
2-Methylnaphthalene	ND		ug/L	1.6	0.17	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Naphthalene	ND		ug/L	1.6	0.13	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
2-Nitroaniline	ND		ug/L	3.3	0.22	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
3-Nitroaniline	ND		ug/L	3.3	0.20	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
4-Nitroaniline	ND		ug/L	3.3	0.45	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Nitrobenzene	ND		ug/L	3.3	0.30	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
2-Nitrophenol	ND		ug/L	3.3	0.49	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
4-Nitrophenol	ND		ug/L	3.3	1.1	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
N-Nitroso-di-n-propylamine	ND		ug/L	3.3	0.26	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
N-Nitrosodiphenylamine	ND		ug/L	3.3	0.20	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Pentachlorophenol	ND		ug/L	6.5	1.2	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Phenanthrene	ND		ug/L	1.6	0.14	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Phenol	ND		ug/L	8.7	0.25	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Pyrene	ND		ug/L	1.6	0.17	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.3	0.21	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
2,3,4,6-Tetrachlorophenol	ND		ug/L	3.3	0.52	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
2,4,5-Trichlorophenol	ND		ug/L	3.3	0.60	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
2,4,6-Trichlorophenol	ND		ug/L	3.3	0.62	SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	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>
2,4,6-Tribromophenol (S)	86.7		%	47 - 128		SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
2-Fluorobiphenyl (S)	76.8		%	52 - 118		SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
2-Fluorophenol (S)	55.9		%	20 - 87		SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Nitrobenzene-d5 (S)	79.5		%	27 - 139		SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Phenol-d5 (S)	33.3		%	10 - 81		SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	
Terphenyl-d14 (S)	85.9		%	46 - 133		SW846 8270D	5/10/16 13:50 JSR	5/11/16 14:05	CGS	A	

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: **2141551007** Date Collected: 5/3/2016 14:00 Matrix: Water
Sample ID: **Equipment Blank** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
PCBs										
Total Polychlorinated Biphenyl	ND		ug/L	0.47	0.47	SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
Aroclor-1016	ND		ug/L	0.47	0.057	SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
Aroclor-1221	ND		ug/L	0.47	0.066	SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
Aroclor-1232	ND		ug/L	0.47	0.18	SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
Aroclor-1242	ND		ug/L	0.47	0.23	SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
Aroclor-1248	ND		ug/L	0.47	0.13	SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
Aroclor-1254	ND		ug/L	0.47	0.094	SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
Aroclor-1260	ND		ug/L	0.47	0.066	SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
Aroclor-1262	ND		ug/L	0.47	0.094	SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
Aroclor-1268	ND		ug/L	0.47	0.16	SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
<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>
Decachlorobiphenyls (S)	60.7		%	30 - 150		SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
Tetrachloro-m-xylene (S)	55		%	36 - 112		SW846 8082A	5/6/16 12:25	LEH	5/9/16 15:31	KJH D
PESTICIDES										
Aldrin	ND		ug/L	0.019	0.0048	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
alpha-BHC	ND		ug/L	0.019	0.0019	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
beta-BHC	ND		ug/L	0.019	0.0076	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
delta-BHC	ND		ug/L	0.019	0.0029	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
gamma-BHC	ND		ug/L	0.019	0.0029	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
alpha-Chlordane	ND		ug/L	0.019	0.0029	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
gamma-Chlordane	ND		ug/L	0.019	0.0029	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
4,4'-DDD	ND		ug/L	0.019	0.0067	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
4,4'-DDE	ND		ug/L	0.019	0.0067	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
4,4'-DDT	ND		ug/L	0.019	0.0057	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Dieldrin	ND		ug/L	0.019	0.0029	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Endosulfan I	ND		ug/L	0.019	0.0029	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Endosulfan II	ND		ug/L	0.019	0.0057	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Endosulfan Sulfate	ND		ug/L	0.019	0.0038	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Endrin	ND		ug/L	0.019	0.0076	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Endrin Aldehyde	ND		ug/L	0.019	0.0095	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Endrin Ketone	ND		ug/L	0.019	0.0038	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Heptachlor	ND		ug/L	0.019	0.0029	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Heptachlor Epoxide	ND		ug/L	0.019	0.0038	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Methoxychlor	ND		ug/L	0.019	0.0086	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Toxaphene	ND		ug/L	0.95	0.18	SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C

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ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: 2141551007 Date Collected: 5/3/2016 14:00 Matrix: Water
 Sample ID: Equipment Blank Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<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> Cntr
Decachlorobiphenyls (S)	72.4		%	30 - 140		SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
Tetrachloro-m-xylene (S)	54.1		%	30 - 123		SW846 8081B	5/9/16 07:55	LEH	5/9/16 20:02	RWS C
HERBICIDES										
2,4-D	ND		ug/L	0.19 0.024		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
2,4-DB	ND		ug/L	0.29 0.044		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
Dalapon	ND		ug/L	0.95 0.034		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
Dicamba	ND		ug/L	0.19 0.044		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
Dichloroprop	ND		ug/L	0.48 0.052		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
Dinoseb	ND		ug/L	4.8 0.13		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
MCPA	ND		ug/L	38.1 7.3		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
MCPP	ND		ug/L	38.1 7.0		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
Pentachlorophenol	ND		ug/L	0.19 0.019		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
2,4,5-T	ND		ug/L	0.19 0.037		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
2,4,5-TP	ND		ug/L	0.29 0.022		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
<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> Cntr
2,4-Dichlorophenylacetic acid (S)	112		%	14 - 172		SW846 8151A	5/9/16 17:00	VLM	5/10/16 09:44	KJH F
WET CHEMISTRY										
pH	6.92	1	pH_Units		1	SW846 9040C			5/6/16 14:32	MSA E
METALS										
Aluminum, Total	ND		mg/L	0.089 0.030		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Antimony, Total	ND		mg/L	0.0022 0.00074		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Arsenic, Total	ND		mg/L	0.0030 0.0010		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Barium, Total	0.0064		mg/L	0.0056 0.0019		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Beryllium, Total	ND		mg/L	0.0010 0.00030		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Cadmium, Total	ND		mg/L	0.0011 0.00037		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Calcium, Total	0.22		mg/L	0.11 0.037		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Chromium, Total	0.0012J	J	mg/L	0.0022 0.00074		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Cobalt, Total	ND		mg/L	0.0056 0.0019		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Copper, Total	ND		mg/L	0.0056 0.0019		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Iron, Total	0.053J	J	mg/L	0.056 0.019		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Lead, Total	ND		mg/L	0.0022 0.00074		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Magnesium, Total	ND		mg/L	0.11 0.037		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Manganese, Total	ND		mg/L	0.0056 0.0019		SW846 6020A	5/8/16 14:20	JPS	5/17/16 17:17	MO H1
Mercury, Total	ND		mg/L	0.00050 0.00017		SW846 7470A	5/17/16 01:00	MNP	5/17/16 13:10	MNP H2

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34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
 State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141551 Millerstown Reservoir

Lab ID: **2141551007** Date Collected: 5/3/2016 14:00 Matrix: Water
 Sample ID: **Equipment Blank** Date Received: 5/5/2016 10:39

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Nickel, Total	ND		mg/L	0.0056	0.0019	SW846 6020A	5/8/16 14:20 JPS	5/17/16 17:17	MO	H1
Potassium, Total	ND		mg/L	0.11	0.037	SW846 6020A	5/8/16 14:20 JPS	5/17/16 17:17	MO	H1
Selenium, Total	ND		mg/L	0.0056	0.0019	SW846 6020A	5/8/16 14:20 JPS	5/17/16 17:17	MO	H1
Silver, Total	ND		mg/L	0.0022	0.00074	SW846 6020A	5/8/16 14:20 JPS	5/17/16 17:17	MO	H1
Sodium, Total	0.19		mg/L	0.11	0.037	SW846 6020A	5/8/16 14:20 JPS	5/17/16 17:17	MO	H1
Thallium, Total	ND		mg/L	0.0010	0.00030	SW846 6020A	5/8/16 14:20 JPS	5/17/16 17:17	MO	H1
Vanadium, Total	ND		mg/L	0.0022	0.00074	SW846 6020A	5/8/16 14:20 JPS	5/17/16 17:17	MO	H1
Zinc, Total	0.0032J	J	mg/L	0.0056	0.0019	SW846 6020A	5/8/16 14:20 JPS	5/17/16 17:17	MO	H1

Shannon Butler
 Ms. Shannon Butler
 Project Coordinator

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

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2141551001	1	Site 1-Composite 1	SW846 9045D	pH
The solid pH measured in water was 6.973 at 19.1 degrees C.				
2141551002	1	Site 2-Composite 1	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 41 and the control limits were 45 to 126. This result was reported at a dilution of 1.				
2141551002	2	Site 2-Composite 1	SW846 9045D	pH
The solid pH measured in water was 6.931 at 19.2 degrees C.				
2141551003	1	Site 2-Composite 2	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 36.5 and the control limits were 40 to 110. This result was reported at a dilution of 1.				
2141551003	2	Site 2-Composite 2	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 37.8 and the control limits were 45 to 126. This result was reported at a dilution of 1.				
2141551003	3	Site 2-Composite 2	SW846 9045D	pH
The solid pH measured in water was 6.908 at 19.3 degrees C.				
2141551004	1	Site 3-Composite 1	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 31 and the control limits were 40 to 110. This result was reported at a dilution of 1.				
2141551004	2	Site 3-Composite 1	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 34.7 and the control limits were 45 to 126. This result was reported at a dilution of 1.				
2141551004	3	Site 3-Composite 1	SW846 8081B	Tetrachloro-m-xylene
The surrogate Tetrachloro-m-xylene for method SW846 8081B was outside of control limits. The % Recovery was reported as 121 and the control limits were 30 to 111. This result was reported at a dilution of 5.				
2141551004	4	Site 3-Composite 1	SW846 9045D	pH
The solid pH measured in water was 6.874 at 19.4 degrees C.				
2141551005	1	Site 3-Composite 2	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 28.3 and the control limits were 40 to 110. This result was reported at a dilution of 1.				
2141551005	2	Site 3-Composite 2	SW846 8270D	Terphenyl-d14
The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 35 and the control limits were 45 to 126. This result was reported at a dilution of 1.				
2141551005	3	Site 3-Composite 2	SW846 9045D	pH
The solid pH measured in water was 6.910 at 19.7 degrees C.				
2141551006	1	Site 3-Composite 3	SW846 9045D	pH
The solid pH measured in water was 6.852 at 19.6 degrees C.				
2141551007	1	Equipment Blank	SW846 9040C	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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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5341
F. 717-944-1430

Environmental

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

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

Co. Name: Consett Fleming, Inc.
Contact (person): David Graff
Address: 207 Sebata Avenue
Camp Hill, PA 17011

Phone: 717-763-7411

Bill to (different than Report to):

PO#: 060466

Project Name#: Milltown Reservoir ALS Quote #: 536285

TAT: Normal-Standard TAT is 10-32 business days.
 Rush-Subject to ALS approval and surcharges.

Email? Agro.F@qfast.com
Fax? Y No.

Sample Description/Location (as it will appear on the lab report)

Sample No.	Sample Date	Sample Time	COC Comments	Sample Date	Sample Time
1	5/5/16	14:00	Equipment Blank		
2					
3					
4					
5					
6					
7					
8					

SAMPLED BY (Please Print):

Corey Myers / Steve Wilkey

Relinquished By / Company Name

Corey Myers / Steve Wilkey

Date

5/5/16 10:40

Date

5/5/16 10:30

Time

4

Time

6

Time

8

Time

10

Project Comments:

SB S110

Container Type <u>PL</u>	Container Size <u>Small</u>	Preservative <u>HA03</u>	Container Volume <u>100</u>	Container Material <u>HDPE</u>
Receipt Information Prepared by <u>BS</u>	Prepared by <u>BS</u>	Prepared by <u>BS</u>	Prepared by <u>BS</u>	Prepared by <u>BS</u>
Cooler Temp: <u>40C</u>	Therm. ID: <u>1052</u>	No. of Coolers:	Notes:	
ANALYSES/METHOD REQUESTED				
Enter Number of Containers Per Analysis				
Equipment Blank - Metals				
Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Container in good condition?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
COC Labels complete/accurate?	Received on tag?	Correct preservation?	Headspace/Volatiles?	Container in good condition?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

ALS FIELD SERVICES
Pickup <input type="checkbox"/>
Label <input type="checkbox"/>
Composite Sampling <input type="checkbox"/>
Recall Equipment <input type="checkbox"/>
Other <input type="checkbox"/>

SOVA Form #	Standard	State Samples Collected In
<input type="checkbox"/>	<input type="checkbox"/>	MD <input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	NJ <input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	NY <input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	PA <input type="checkbox"/>
CLP-like <input type="checkbox"/>	MJ-Reduced <input type="checkbox"/>	MJ-Full <input type="checkbox"/>
MJ-Reduced <input type="checkbox"/>	MJ-Full <input type="checkbox"/>	Other <input type="checkbox"/>
Other <input type="checkbox"/>	Other <input type="checkbox"/>	Other <input type="checkbox"/>

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<u>Corey Myers / Steve Wilkey</u>	<u>5/5/16</u>	<u>10:40</u>	<u>David Schaeffer</u>	<u>5/5/16</u>	<u>10:30</u>

*G-Glass; D-Composite
**Matrix: A=Air; D=Drinking Water; G=Groundwater; O=Oil; OL=Other Liquid; S=Soil; W=Water
***Container Type: AG-Amber Glass; CG-Clear Glass; PL-Plastic. Container Size: 250ml, 500ml, 1L, 2L, etc. Preservation: HD, HMO, NaOH, etc.



Memo
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Date: June 15, 2016
To: Board of Supervisors
From: Rick Smith, Township Manager
Re: Forest Lane Culvert



The bottom of the culvert on Forest Lane has rusted out. We open bids to line the metal culvert with a resin based liner on June 9, 2016.

Bid results are as noted in the Pennoni letter of June 14, 2016 and Mark Miller and would recommend awarding the contract to Abel Recon in the amount of \$66,775.

I would add that that the existing metal culvert was installed after Hurricane Agnes washed out the bridge in 1973.

Suggested Motion – I move we award the bid in the amount of \$66,775 for the Forest Lane Culvert Ling Project to Able Recon.

June 14, 2016

EGOS 0615

Rick Smith, Township Manager
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

RE: Forest Lane Culvert Lining

Dear Rick:

At 10:00 AM on June 9, 2016 bids were opened for the referenced project. The bid results are as follows:

<u>Contractor:</u>	<u>Bid Amount:</u>
Abel Recon	\$66,775.00
Swerp Incorporated	\$95,550.00
Fast Pipe Lining East, Inc.	\$283,000.00

We have enclosed a copy of the bid tabulation for your records.

Please note that both Pennoni and the Township have worked with Abel Recon in the past and have found their work to be satisfactory.

You'll recall previous discussions where we estimated that a conventional pipe replacement was estimated to cost approximately \$175,000.00 with a road closure/detour of approximately eight (8) weeks.

Based on the above, it is our recommendation to award the project to Abel Recon in the amount of \$66,775.00 contingent upon their execution of the contract and supply of the required bonds and insurance. If the Board of Supervisors agrees with our recommendation, please notify my office so that the necessary contract documents may be prepared.

If you have any questions or require additional information, please contact me.

Sincerely,

PENNONI



Nathan M. Cline, PE
Township Engineer

cc: Mark Miller, Director of Public Works (via email)

EGOS0615

East Goshen Township
 Tabulation of Bids Received Until 10:00 A.M.
 Prevailing time on June 9, 2016

2016 Forest Lane Culvert Lining

ITEM NO.	QUANTITY/UNIT	DESCRIPTION	Randy Roschel		Alfred De Vincent		Frank Impagliazzo	
			UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1	1 LS	Cleaning and Lining of Corrugated Metal Storm Sewer Culvert	\$60,534.00	\$60,534.00	\$90,550.00	\$90,550.00	\$235,000.00	\$235,000.00
2	1 LS	By-pass Pumping	\$6,241.00	\$6,241.00	\$5,000.00	\$5,000.00	\$48,000.00	\$48,000.00
Grand Total Bid for Contract				\$66,775.00		\$95,550.00		\$283,000.00
Bid Security			10% Bid Bond		10% Bid Bond		10% Bid Bond	

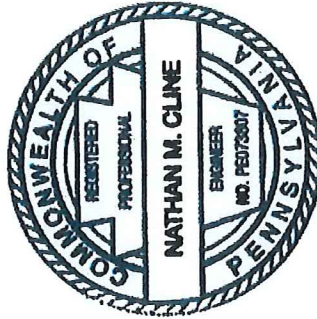
Randy Roschel
 717-285-3103
 Abel Recon
 3925 Columbia Avenue
 Mountville, PA 17554
rroschel@abelrecon.com

Alfred De Vincent
 215-785-2242
 Swerp Incorporated
 1237 Hayes Boulevard
 Bristol, PA 19007
swerpinc@aol.com

Frank Impagliazzo
 302-737-3034
 Fast Pipe Lining East, Inc.
 563 Walther Road
 Newark, DE 19702
sales@fastpipeeast.com

We declare this to be a true Tabulation of Bids received until 10:00 AM
 on June 9, 2016 by the Township of East Goshen for the 2016 Forest
 Lane Culvert Lining

PENNONI



(Handwritten signature in blue ink)

Nathan Cline, PE PENNA. REG. NO. 073807

**EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA**

RESOLUTION NO. 2016-151

**A RESOLUTION RECOGNIZING LIEUTENANT GUY ROSATO'S SERVICE TO THE
WESTTOWN EAST GOSHEN REGIONAL POLICE DEPARTMENT.**

WHEREAS, Guy Rosato was hired as a Patrol Officer on June 20, 1988, was promoted to Corporal in 2000, and promoted to Sergeant in 2008.

WHEREAS, Guy was the Department's first Canine Officer working with Rikko from 1999 until 2007.

WHEREAS, Guy was promoted to Lieutenant on January 1, 2015.

WHEREAS, Guy will retire on July 8, 2016 after serving as an officer for the Westtown East Goshen Regional Police Department for 28 years.

WHEREAS, Guy has contributed to the development of the Westtown East Goshen Regional Police Department into one of the premier police departments in Chester County.

BE IT RESOLVED THAT this Tuesday, June 21, 2016, the East Goshen Township Board of Supervisors hereby acknowledge and thank Guy Rosato for his 28 years of dedicated service to the Westtown East Goshen Regional Police Department and wish him the best of luck in his retirement.

ADOPTED, this 21st day of June 2016.

ATTEST:

**EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS**

Secretary

**EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA**

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ADOPTED, this 21st day of June 2016.

ATTEST:

**EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS**

Secretary

Memo

To: Board of Supervisors
From: Jason Lang
Re: Summer 2016, "Fit and Fun in the Park"
Date: June 14, 2016

Overview: East Goshen Township is blessed to have a number of co-located recreational assets: East Goshen Park, Applebrook Park and the Blacksmith Shop are connected by way of trail and offer the active individual a number of ways to increase their quality of life by healthy pursuits. Sadly, Americans are increasingly becoming more sedentary. The Center for Disease Control (CDC) estimates that 34.9% of adults, and alarmingly, 17% of all children are obese. Obesity is a factor in a number of short and long term health complications that decrease an individual's quality of life. In an effort to collectively become a healthier East Goshen Township, we should proclaim this to be a "Fit and Fun in the Park" summer!

A "Fit and Fun in the Park" summer would include a series of both active and passive activities, that individuals and families can enjoy as they work towards their health and wellness goals. In the process, it would help motivate and energize Township residents in collective spirit and effort. These activities would fall into the below categories:

Physical Health & Wellness

- The Walk Across PA Program – a summer-long initiative to walk the 329 miles from the Walt Whitman Bridge to the Ohio border.
- Walk with a Doc Series – in partnership with Paoli Hospital and The Rails to Trail Conservancy, walks will take place on July 28th and August 27th where participants can learn about a health topic and ask questions of a Paoli Hospital doctor.
- Find the Gnome in the Park Series – in partnership with Paoli Dunkin Donuts, the East Goshen Gnome will be hidden in Township park land, with the "discoverer" winning Dunkin Donuts gift cards.
- The GoWilma! Adventure Series – in partnership with Willistown Township and the Borough of Malvern, area children will visit twelve area parks and go on a scavenger hunt to find the GoWilma! post. Children receive prizes at the end of the summer based on the number of completed hunts.
- Free fitness classes in the park – Zumba, Pilates and Yoga will all hold free classes for the general public in East Goshen Park throughout the summer.

Mental Health & Wellness

- The 2nd Annual Liv Live Concert (Thursday, September 15th) – in partnership with the Chester County Suicide Prevention Task Force, the Liv Live Concert is a free night of music in celebration of life and to raise awareness about mental health issues.
- 22 in 22 – The “22 in 22” is a social media based fitness initiative to recognize the issues returning soldiers face post-deployment, namely PTSD and elevated suicide rates. The goal of the initiative is to engage the community to do 22 pushups for 22 days, with the 22nd day taking place at the 2nd Annual Liv Live Concert.

Nutrition

- Nutrition Discussions at the EGT Farmers Market – in partnership with Paoli Hospital, registered Dieticians will lead nutrition discussions at the EGT Farmers Market. The dates are July 28 and September 8.

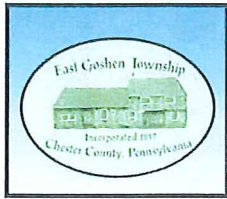
These activities are all self-guided and/or current Department of Recreation activities and do not need additional funds. Most are currently being marketed in the summer newsletter, and this proclamation would further serve to tie these Township health and wellness initiatives under one umbrella.

Summary:

East Goshen Township is highly regarded for providing the highest level of service to its residents, consistently improving the quality of life for individuals and families. A “Fit and Fun in the Park” summer will extend this by providing a platform for the community to engage in healthy and fun lifestyle activities in a collective atmosphere meant to motivate, educate and entertain.

Motion:

I move to proclaim 2016 as a “Fit and Fun in the Park” summer.



**News for Immediate Release - DRAFT
June 22, 2016**

East Goshen Township proclaims 2016 to be a "Fit and Fun in the Park" summer.

East Goshen Township is excited to proclaim 2016 to be a "Fit and Fun in the Park" summer. "Fit and Fun in the Park" is a series of activities across the summer months aimed at providing fun, motivating and inspiring opportunities for area residents to increase their health and wellness. With rates of obesity hitting 34.9% for adults and 17% for children (Source: Center for Disease Control), East Goshen Township recognizes the importance of getting out and getting fit this summer!

A "Fit and Fun in the Park" summer includes a series of both active and passive activities, that individuals and families can enjoy as they work towards their health and wellness goals. These activities fall into the below categories:

Physical Health & Wellness

- The Walk Across PA – a summer-long initiative to walk the 329 miles from the Walt Whitman Bridge to the Ohio border.
- Walk with a Doc Series – in partnership with Paoli Hospital and The Rails to Trail Conservancy, walks will take place on July 28th and August 27th in East Goshen Park where participants can learn about a health topic and ask questions of a Paoli Hospital doctor.
- Find the Gnome in the Park Series – in partnership with Paoli Dunkin Donuts, the East Goshen Gnome will be hidden in Township park land, with the "discoverer" winning Dunkin donuts gift cards.
- The GoWilma! Adventure Series – a Willistown Township and Borough of Malvern program that East Goshen Township partners with, area children will visit area parks and go on a scavenger hunt to find the GoWilma! rubbing post. Children receive prizes at the end of the summer based on the number of completed hunts.
- Free fitness classes in the park – Zumba, Pilates and Yoga will all hold free classes for the general public in East Goshen Park throughout the summer.

Mental Health & Wellness

- The 2nd Annual Liv Live Concert (Thursday, September 15th) – in partnership with the Chester County Suicide Prevention Task Force, the Liv Live Concert is a free night of live music in celebration of life and to raise awareness about mental health issues.
- 22 in 22 – The “22 in 22” is a social media based fitness initiative to recognize the issues returning soldiers face post-deployment, namely PTSD and elevated suicide rates. The goal of the initiative is to engage the community to do 22 pushups for 22 days, with the 22nd day taking place at the 2nd Annual Liv Live Concert (August 25 – September 15).

Nutrition

- Nutrition Discussions at the EGT Farmers Market – in partnership with Paoli Hospital, registered Dietitians will lead nutrition discussions at the EGT Farmers Market. The dates are July 28 and September 8.

These activities are all self-guided and/or current Department of Recreation activities and do not need additional funds.

For more information about East Goshen Township’s “Fit and Fun in the Park” summer – visit eastgoshen.org or contact Jason Lang, Director of Recreation.

Media contact: Jason Lang, East Goshen Township Director of Recreation, 610-692-7171 or jlang@eastgoshen.org

Memo
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Voice (610) 692-7171

Fax (610) 692-8950

E-mail rsmith@eastgoshen.org

Date: June 14, 2016

To: Board of Supervisors

From: Rick Smith, Township Manager

Re: No Truck Sign/Local Deliveries Only signs on Hibberd Lane and Grist Mill Lane.

When we meet with the residents from the Preserve at Applebrook last month they expressed concerns about commercial vehicles cutting thru their neighborhood requested that the Township prohibit thru trucks on Hibberd Lane and Grist Mill Lane. We advised them that this would need to be taken back to the full Board for a decision.

I did some research and the PennDOT Sign Manual allows for the installation of "No Truck" signs (R5-2) and "Except Local Deliveries" signs (R5-2-3).

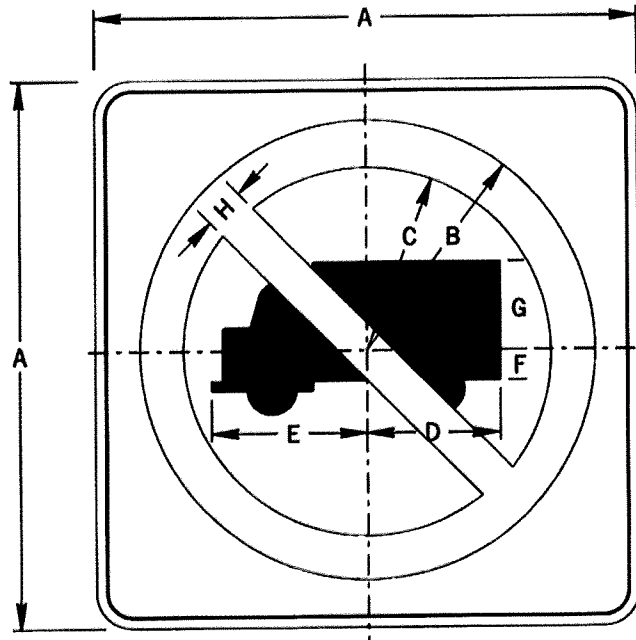
Does the Board want to prohibit thru trucks?

R5-2

NO TRUCK SIGN

(a) Justification. The No Truck Sign (R5-2) shall be authorized for use to prohibit trucks, except that such vehicles may be operated thereon for the purpose of delivering or picking up materials or merchandise. When local truck deliveries are permitted, the Except Local Deliveries Sign (R5-2-3) shall be mounted beneath the R5-2 sign.

(b) Size. The standard size of the R5-2 sign shall be 24" x 24".



DIMENSIONS - IN										
SIGN SIZE A x A	B	C	D	E	F	G	H	MAR- GIN	BOR- DER	BLANK STD.
24" x 24"	10.5	8.5	6.5	7.5	1.8	4.3	2	0.4	0.6	B3-24
30" x 30"	13.2	10.6	8.1	9.4	4.7	5.3	2.6	0.4	0.8	B3-30
36" x 36"	15.8	12.8	9.8	11.3	5.6	6.4	3	0.6	1	B3-36
48" x 48"	21	17	13	15	7.5	8.5	4	0.8	1.2	B3-48

COLOR:

SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)

CIRCLE AND SLASH:
RED (REFLECTORIZED)

BACKGROUND:
WHITE (REFLECTORIZED)

APPROVED FOR THE SECRETARY OF TRANSPORTATION

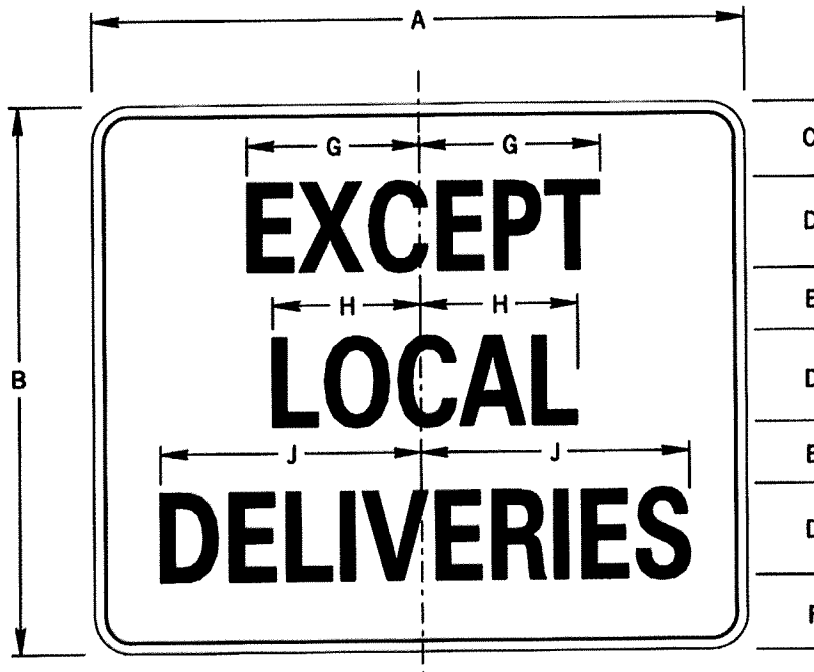
By : Shirley C. Rowe Date : 02-29-12
Chief, Traffic Engineering and Permits Section
Bureau of Maintenance and Operations

R5-2-3

EXCEPT LOCAL DELIVERIES SIGN

The Except Local Deliveries Sign (R5-2-3) may be used below the No Trucks Sign (R5-2), Weight Limit () Tons Sign (R12-1), and the Except Combinations () Tons Sign (R12-5A) when kinds or classes of vehicles are prohibited except for local deliveries. Local deliveries are defined as deliveries going to or from a residence, commercial establishment, or farm located on a posted highway or which can be reached only via a posted highway. The R5-2-3 sign shall not, however, be used when a bridge or other structure is not capable of supporting the legal weight limit. The term "RESIDENTIAL" may be substituted for "LOCAL" if there is a commercial development in the area and satisfactory alternate access roadways exist for the commercial development.

When used the R5-2-3 sign shall be mounted below the R5-2, R12-1, or R12-5A sign. The R5-2-3 sign shall be the same width as the sign it supplements.



DIMENSIONS - IN										
SIGN SIZE A x B	C	D	E	F	G	H	J	MAR- GIN	BOR- DER	BLANK STD.
24" x 18"	2.5	3C	2	2.5	6.1	5.1	9.3	0.4	0.4	B5-2418
36" x 30"	4.1	5C	3.4	4.1	10.1	8.4	15.4	0.6	0.6	B5-3630
48" x 36"	5	6C	4	5	12.1	10.2	18.5	0.6	0.8	B5-4836

COLOR:

LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)

BACKGROUND:
WHITE (REFLECTORIZED)

APPROVED FOR THE SECRETARY OF TRANSPORTATION

By : *She C Row* Date : 02-29-12
Chief, Traffic Engineering and Permits Section
Bureau of Maintenance and Operations

Memo

To: Board of Supervisors
From: Jon Altshul
Re: Consider continuing e-waste event
Date: June 15, 2016

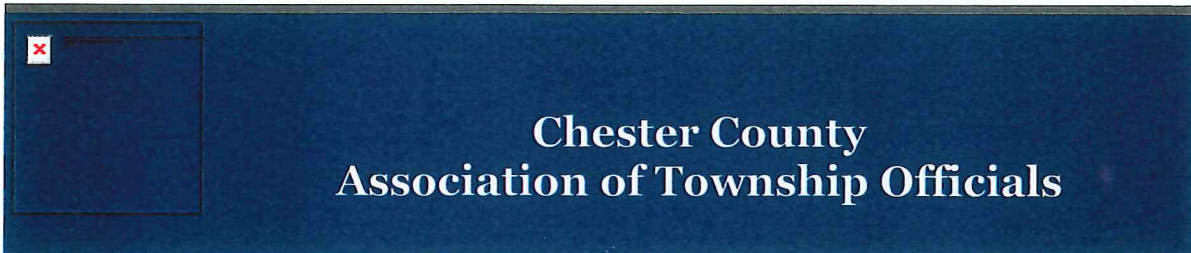
eForce Compliance reported that it received 24,540 pounds of electronic waste at the June 11th recycling event in the park. This reflects a sharp drop off from the first two events (33,896lbs and 42,532lbs, respectively).

As noted in the expenditure register, eForce charged us \$2,500 for the June event, which is now the base fee that eForce charges (last year, the events were held at no cost to the Township).

In light of this new fee, we seek the Board's guidance about whether to continue to hold these events, and if so, whether they should be open to the public or just Township residents. We could assign a Public Works employee to check IDs at future events to ensure that only Township residents may drop off e-waste.

Rick Smith

From: Ernie Holling -- CCATO President <e-services@ccato.ccsend.com> on behalf of Ernie Holling -- CCATO President <e-services@ccato.org>
Sent: Tuesday, June 14, 2016 4:37 PM
To: rsmith@eastgoshen.org
Subject: CCATO - The Sterling Act



Dear Rick,

Could the municipalities of Chester County use an additional \$4.8M per annum? Or the school districts about \$800K in additional funding? If so, consider the attached resolutions for adoption by townships and boroughs and forwarding to SEATO@ccato.org. (SEATO - Southeast Association of Township Officials - essentially Bucks, Chester, Delaware and Montgomery Counties).

The resolutions address the 1932 Sterling Act which allowed Philadelphia to tax income both at the "resident" and "source" levels. Each municipality in Chester County may tax income for their resident's earnings regardless of source; however, they do not tax non-residents for income earned within the municipality - that tax is at wage earner's respective residence. Philadelphia taxes as the "income source" for non-resident city workers and is essentially preempting the standard resident tax for suburban municipalities. Chester County's Sterling Act shortfall was \$4,800,357 at the municipal level in 2014. Bucks county over \$60M. School district shortfall is moderated by payments made by the Commonwealth to compensate for a portion of their shortfall.

The constitutional issue in the essay cited below is related primarily to the impact in New Jersey arising in the US Supreme Court -- Comptroller of the Treasury of Maryland v. Wynne (<https://www.oyez.org/cases/2014/13-485>).

CCATO urges your municipality considers and passes the appropriate attached resolution. Once passed email an executed copy to SEATO@ccato.org and we will handle the forwarding to legislators and the Governor.

SEATO conducts a monthly conference call with the Pennsylvania State Association of Township Officials and this topic has been jointly addressed and concurred as an important issue over several sessions with the conferees.

Attached are the following documents:

- [Resolution for Township adoption](#)
- [Resolution for Borough adoption](#)

- [Chester County Sterling Impact per municipality in 2014](#)
- [Penn Law Essay: Is the Philadelphia Wage tax Unconstitutional?](#)
- [Thinking Beyond Today: A path to Prosperity](#)
- [The Sterling Act of 1932](#)

Ernie Holling
President
CCATO

Executive Board
CCATO

CCATO, Post Office Box 219, London Grove, PA 19360

[SafeUnsubscribe™ rsmith@eastgoshen.org](#)

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Sent by e-services@ccato.org

6-25-16

RECOMMEND BOARD ADOPT RESOLUTION

Rick

PSD	MuniName	Tax Year	Number of Filers	Wages Earned In Philadelphia	Wages Earned Outside Philadelphia	Local Tax Rate	SD Tax Rate	Municipality Revenue Loss	District Revenue Loss
150602	East Nantmeal Township	2014	24	\$1,920,581	\$341,733	0.75%	0.50%	\$16,967	\$11,312
150603	East Vincent Township	2014	94	\$7,758,910	\$1,257,235	0.83%	0.50%	\$75,059	\$45,081
150604	North Coventry Township	2014	99	\$5,333,625	\$1,344,849	0.75%	0.50%	\$50,089	\$33,392
150605	South Coventry Township	2014	41	\$2,348,264	\$907,221	0.50%	0.50%	\$16,277	\$16,277
150606	Warwick Township	2014	30	\$1,885,501	\$233,869	0.75%	0.50%	\$15,895	\$10,597
150607	West Vincent Township	2014	100	\$13,372,842	\$1,364,236	0.75%	0.50%	\$110,528	\$73,685
150701	East Nottingham Township	2014	103	\$5,160,744	\$1,236,266	0.63%	0.50%	\$39,981	\$31,985
150702	Elk Township	2014	11	\$578,311	\$20,052	1.00%	0.50%	\$5,984	\$2,992
150703	Lower Oxford Township	2014	28	\$1,283,229	\$474,081	1.00%	0.50%	\$17,573	\$8,787
150704	Oxford Borough	2014	21	\$1,076,643	\$207,588	0.50%	0.50%	\$6,421	\$6,421
150705	Upper Oxford Township	2014	18	\$780,710	\$198,241	1.00%	0.50%	\$9,790	\$4,895
150706	West Nottingham Township	2014	7	\$307,749	\$108,641	0.50%	0.50%	\$2,082	\$2,082
150801	East Pikeland Township	2014	144	\$9,785,344	\$1,592,849	0.75%	0.50%	\$85,336	\$56,891
150802	Phoenixville Borough	2014	291	\$13,391,954	\$2,759,253	0.50%	0.50%	\$80,756	\$80,756
150803	Schuylkill Township	2014	278	\$27,445,997	\$4,759,927	0.75%	0.50%	\$241,544	\$161,030
151001	Caernarvon Township	2014	42	\$1,823,851	\$636,883	0.50%	0.50%	\$12,304	\$12,304
151003	Robeson Township	2014	50	\$2,101,529	\$441,516	0.50%	0.50%	\$12,715	\$12,715
151004	Elverson Borough	2014	8	\$495,413	\$70,226	0.50%	0.50%	\$2,828	\$2,828
151005	Honey Brook Borough	2014	20	\$776,538	\$678,379	0.50%	0.50%	\$7,275	\$7,275
151006	Honey Brook Township	2014	48	\$1,702,700	\$410,357	1.00%	0.50%	\$21,131	\$10,565
151007	West Nantmeal Township	2014	24	\$1,334,834	\$667,739	0.50%	0.50%	\$10,013	\$10,013
151103	Newlin Township	2014	17	\$2,189,959	\$603,765	0.50%	0.00%	\$13,969	\$0
151104	Pennsbury Township	2014	55	\$5,917,517	\$3,283,877	0.31%	0.00%	\$28,708	\$0
151105	Pocopson Township	2014	53	\$5,024,747	\$807,828	0.20%	0.00%	\$11,665	\$0
151106	West Marlborough Township	2014	6	\$1,108,108	\$2,137	0.50%	0.00%	\$5,551	\$0
151201	East Bradford Township	2014	225	\$19,226,908	\$3,158,638	0.75%	0.50%	\$167,892	\$111,928
151202	East Goshen Township	2014	507	\$45,531,923	\$11,984,140	0.50%	0.50%	\$287,580	\$287,580
151203	Thornbury Township (Chester County)	2014	90	\$10,130,527	\$1,111,062	0.50%	0.50%	\$56,208	\$56,208
151204	West Chester Borough	2014	193	\$11,216,353	\$2,030,464	0.50%	0.50%	\$66,234	\$66,234
151205	West Goshen Township	2014	532	\$48,075,862	\$7,058,668	0.50%	0.50%	\$275,673	\$275,673
151206	West Whiteland Township	2014	533	\$42,783,506	\$7,192,034	0.50%	0.50%	\$249,878	\$249,878
151207	Westtown Township	2014	356	\$26,544,091	\$3,824,531	0.50%	0.50%	\$151,843	\$151,843

RESOLUTION NO. 2016-152

A RESOLUTION OF THE EAST GOSHEN TOWNSHIP BOARD OF SUPERVISORS REQUESTING AN AMENDMENT TO THE STERLING ACT TO REQUIRE THAT UP TO ONE PERCENT OF PHILADELPHIA WAGE TAX PAID BY NON-RESIDENTS OF PHILADELPHIA BE REMITTED TO THE MUNICIPALITY IN WHICH THE TAXPAYER RESIDES

WHEREAS, East Goshen Township has enacted an earned income tax (“EIT”) in accordance with the Pennsylvania Local Tax Enabling Act; and

WHEREAS, East Goshen Township relies on the revenue generated by the EIT to provide essential services to its residents and taxpayers; and

WHEREAS, the City of Philadelphia, pursuant to the Sterling Act of 1932, enacted an income tax, also known as a wage tax, on both residents and non-residents of Philadelphia employed in Philadelphia; and

WHEREAS, the Sterling Act, unlike the Local Tax Enabling Act, does not require Philadelphia to remit any portion of the wage tax to the municipality in which the taxpayer resides; and

WHEREAS, as a result of this inequity in the Sterling Act, East Goshen Township is deprived of annual revenue in EIT;

NOW, THEREFORE, the Board of Supervisors of East Goshen Township hereby **RESOLVES** to formally request the Governor of the Commonwealth of Pennsylvania and the Senators and Representatives of the General Assembly of Pennsylvania to amend the Sterling Act to require that an amount up to One Percent of the non-resident Philadelphia Wage Taxes paid by non-residents of Philadelphia be remitted to the municipality in which the taxpayer resides.

SO RESOLVED this 21ST day of June, 2016.

ATTEST:

**EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS**

Secretary

By: _____
Chairperson



GOSHEN FIRE COMPANY

1320 Park Avenue • West Chester, Pennsylvania 19380

June 7, 2016

\$268,016 IN BUDGETED 2016

Jon Altshul
Rick Smith
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Dear Jon and Rick,

We hope that East Goshen Township will again be able to make their annual contribution to Goshen Fire Company in late June or the beginning of July. We would anticipate using it to pay the major expense due in July of approximately:

Career staff expenses for the second quarter \$290,000

Our budgeted expenses for just the month of July are \$365,379. This is actually the month with the highest budgeted expenses because of the timing of quarterly and annual expenses, in addition to the regular monthly expenses. We very much appreciate the Township being able to make their contribution at this time of year,

Sincerely,

Tom Stalnaker
Treasurer

Memo

To: Board of Supervisors
From: Jason Lang
Re: Tennis Courts, Camera Surveillance of Use
Date: June 14, 2016

Overview: Public Works is currently renovating the back three tennis courts. After initial renovations, Public Works anticipates total renovation costs to exceed the anticipated project budget. Mark Miller is currently seeking cost estimates to complete the renovation at a number of expense levels, after which a recommendation will be made to the Board of Supervisors as to how to proceed. In order to best understand current tennis participation, and to help forecast future tennis use needs, we are requesting the use of the Township surveillance cameras to quantify current court use.

The surveillance cameras would be mounted near the first three courts for a period of two weeks, from June 22 – July 6. A sign (example attached) will be posted to notify the public that they are being videotaped for the purpose of understanding current tennis participation to guide the future tennis court renovation project.

Motion:

I move to mount a Township surveillance camera near the tennis courts to assess current court use.



Surveillance cameras will be used on the East Goshen Township Park Tennis Courts for the period of June 22, 2016 – July 6, 2016. The purpose is to understand current tennis participation and user patterns.

Please contact Jason Lang, Director of Recreation, at 610-692-7171 with any questions.

Thank You

Memorandum

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Voice: 610-692-7171

Fax: 610-692-8950

E-mail: mgordon@eastgoshen.org

Date: 6/17/2016

To: Board of Supervisors

From: Mark Gordon, Township Zoning Officer *mlg*

Re: SWM Operation and Maintenance Agreement

Dear Board Members:

Please review and approve the following SWM Operation and Maintenance agreement. This is for a new detached garage and driveway relocation to be constructed at 1630 Highland Ave.

Draft Motion:

I move that we authorize the Chairman to execute the following storm water management operation and maintenance agreement:

1. 1630 Highland Ave.

Memorandum

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Voice: 610-692-7171

Fax: 610-692-8950

E-mail: mgordon@eastgoshen.org

Date: 6/17/2016

To: Board of Supervisors

From: Mark Gordon, Township Zoning Officer 

Re: Revision to Goshen Friends Land Development Plan

Dear Board Members,

At your March 15 meeting the Board approved the revised LD plan for the Goshen Friends Meeting, the revised plans were revised and are ready to be signed.

Draft Motion:

Mr. Chairman, I move that we sign the Land Development plan revisions to the approved Goshen Friends School Land Development plan from December 21, 2004 as depicted on the Goshen Friends School Phase 2 Revised Plan dated 3/28/2016 pursuant to the conditions outlined in the Planning Commission Recommendation dated 3/10/2016.

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**EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS MEETING
1580 PAOLI PIKE
JUNE 7, 2016 – 7:00 pm
DRAFT MINUTES**

Present: Chairman Senya D. Isayeff, Vice-Chairman Marty Shane, and Supervisors Janet Emanuel, Chuck Proctor, Carmen Battavio, Township Manager Rick Smith, Township CFO Jon Altshul, ABC Member Erich Meyer (Conservancy Board), Jason Lang (Director, Park & Recreation), Mark Gordon (Zoning Officer, Building & Codes).

Call to order & Pledge of Allegiance:

Senya called the meeting to order at 7:00pm and asked Mr. Brian Nagle to lead the assembly in the Pledge of Allegiance.

Moment of Silence:

Carmen called for a moment of silence to honor the members of the military who keep us safe both locally and abroad, and to honor those who have given the ultimate sacrifice of their lives in defense of our nation.

Recording of Meeting: *None*

Chairman's Report:

- a. Senya announced that the Board met in Executive Session on May 31, 2016 to discuss a personnel matter and that the Board met prior to tonight's meeting to discuss a Police personnel matter and a legal matter.
- b. Senya asked Chuck to announce that Sergeant David Leahy has been promoted to Lieutenant and that Ryan Benningfield, Mark McKinney and Joshua Micun have been promoted to full time Patrol Officers in the WEGO Police Department. There will be a swearing in ceremony on Thursday, June 9, 2016, in the Training Room of the Police Department to mark the occasion.
- c. Senya announced that at 7:00 p.m., on June 28, 2016, the Board will hold a special meeting at the Goshen Fire House, 1320 Park Avenue, to review and discuss the various options and make a decision on the Hershey's Mill Dam and Milltown Reservoir Dam.
- d. Senya remarked that Gannett Fleming will present their Sediment Report at the June 21, 2016 Board meeting.
- e. Senya commented that the East Boot Road Bridge is now open and the re-opening ceremony took place on Saturday, June 3, 2016. Senya thanked Jon for his efforts in securing 80% of the total construction costs for the bridge through Delaware Valley Regional Planning Commission grant money.
- f. Carmen discussed the Living History Day that took place on June 3, 2016. Carmen commented that this valuable event should be more publicized and could benefit from exposure through the Township's social media efforts.

1 **Old Business:**

2 a. **Consider Sorrell Hill Homeowner Association's request to amend Swimming Pool**
3 **Setbacks for a Single Family Open Space Development:** Mr. Brian Nagle, on behalf
4 of the residents of the Sorrell Hill community, presented an aerial view of the
5 community, and a signed petition by 9 of the 11 Sorrell Hill residents, asking the Board
6 to approve the amendment to allow for full size pools in a Single Family Open Space
7 Development.

8 *Jim Delaney, 914 Sorrell Hill*, commented that he does not understand why the Sorrell
9 Hill residents are not being held to the same standards as all other Township residents.

10 *Bob Chargares, 909 Sorrell Hill*, stated that he bought his home in January of 2016 and
11 he would like to build a pool in his backyard. He does not believe this would have a
12 negative impact on his neighbors, and that he is not asking the Board to create an eyesore
13 in the community.

14 *Anthony Milanese, 911 Sorrell Hill*, commented that the Sorrell Hill residents are trying
15 to maintain the values of their homes.

16 *Jim Delaney, 914 Sorrell Hill*, asked the Board if this amendment would have a
17 detrimental effect on other residents of East Goshen Township.

18
19 Carmen commented that the Board works very hard in the best interests of all residents,
20 and is concerned about an amendment like this having negative effects on other parts of
21 the Township in the future. Carmen further commented that the Board worked long and
22 tirelessly with Mr. George Harlan, the Sorrell Hill developer, to accommodate the
23 construction of this unique Single Family Open Space community. Marty concurred with
24 Carmen's comments, noting that the community's documents direct you to contact the
25 Township if you would like to install a pool, meaning that homebuyers were given
26 advanced notice of restrictions on the properties. Marty further commented that to amend
27 the Zoning Ordinance in this instance would be giving the residents of the Sorrell Hill
28 community preferential treatment, and this would set a very bad precedent for the
29 Township as a whole.

30
31 *Mr. Disicco, 916 Sorrell Hill*, asked the Board if he would have to disclose to a
32 prospective buyer of his home that they could not build a pool. Marty answered that you
33 should direct the prospective buyer to the community's governing documents.

34 *Bob Chagares, 909 Sorrell Hill*, commented that he is one of three Sorrell Hill residents
35 that would like to install a pool, and these pools would not be intrusive to any other
36 Sorrell Hill neighbors. Marty reiterated that the Board needs to consider the best interests
37 of all residents.

38
39 Janet commented that she does not see a problem with the amendment. Janet motioned to
40 amend the accessory use requirement for swimming pools and authorize staff and the
41 solicitor to prepare the ordinance amendment for adoption. The motion was not
42 seconded. Senya informed Mr. Nagle and the Sorrell Hill residents present that the
43 motion to amend the accessory use requirement for swimming pools within Single
44 Family Open Space Developments would not move forward. Senya recommended Mr.
45 Nagle petition the Zoning Hearing Board for a variance. Mr. Nagle commented that this
46 is probably not a viable option. Mr. Nagle further commented that his clients were

1 unaware of the pool restrictions when they purchased their Sorrell Hill homes. Senya
2 noted that pools are allowed in Sorrell Hill, but it is the size of the pool that is restricted.

3
4 *Bob Chagares, 909 Sorrell Hill*, commented that without creative thinking on the Board's
5 part, nothing would move forward in the Township. Senya reminded Mr. Chagares that it
6 was the Board's tireless and creative efforts that allowed the development of the Sorrell
7 Hill community, a Single Family Open Space Development, uniquely situated in East
8 Goshen Township, in the first place.

9
10 Marty excused himself from the remainder of the meeting to attend to a personal matter.

- 11
12 **b. Consider Gannett Fleming Review of Hershey's Mill Dam Cost Estimates:** Rick
13 discussed the Gannett Fleming report that highlights 3 options under consideration,
14 noting that the option to repair the Dam is the most costly. Rick commented that the
15 report is available on the Township website, and Senya stated that the full report would
16 be reviewed and discussed at the June 28, 2016 Special Meeting.

17
18 **New Business:**

- 19 **a. Consider Milltown Reservoir Sediment Report:** The Board briefly reviewed the
20 Gannett Fleming sediment report from the Milltown Reservoir sampling. Senya
21 commented that this report would be reviewed in detail at the June 21, 2016 Board
22 meeting.
- 23 **b. Consider Planning Commission Recommendation for the Subdivision of 943**
24 **Cornwallis Drive:** Mr. T. R. Moser presented drawings and proposal for this
25 subdivision. Carmen asked who would be responsible for the storm drain maintenance.
26 Mark Gordon answered that this item would be the responsibility of the homeowner.
27 Carmen motioned to approve the Preliminary and Final Subdivision and Land
28 Development Plan for 943 Cornwallis Drive titled "PLAN OF SUBDIVISION FOR 943
29 CORNWALLIS DRIVE" dated 10/22/2015 and last revised 5/16/16 and grant the
30 requested waivers, with the following conditions:
31 i) The applicant shall submit a landscape plan for each lot when building permits for the
32 new homes are submitted.
33 ii) Each individual lot landscaping plan shall include two trees that meet the street tree
34 requirements and those trees shall be planted outside the proposed street right of way
35 as depicted on the plan.
36 iii) The applicant shall submit a subdivision and Land Development Agreement, financial
37 security agreement and the shared driveway maintenance agreement to the Township
38 for review and approval prior to releasing the final plans for recording.
39 iv) The applicant will follow all applicable Federal, State and Local laws and secure all
40 proper permits prior to construction of the improvements depicted on the plans.
41 Janet seconded. The Board voted unanimously in favor of the motion.
- 42 **c. Consider Participation in West Chester Area Council of Governments Regional**
43 **Police Study:** The Board discussed the merits of Regional Policing and moving forward
44 in participating in the feasibility study. Chuck motioned for approval to proceed and
45 send a Letter of Intent to the Center for Local Government Services. Carmen seconded.
46 The Board voted unanimously in favor of the motion.

1 **d. Consider a Resolution Authorizing Submission of a DCED-GTRP grant application**
2 **for the Playground Renovation:** Jason discussed the identification of a number of
3 funding sources for the renovation of the playground space and the Township's matching
4 requirements of \$87,770 if we are also awarded the DCNR-C2P2 Grant, and the
5 Township match of \$387,770 if we are not awarded the DCNR-C2P2 Grant. Chuck
6 motioned to authorize the application for a DCED-GTRP Grant in the amount of
7 \$250,000 and approve matching funds in the amounts of \$87,770 or \$387,770 with the
8 noted DCNR-C2P2 Development Grant application pending. Janet seconded. The Board
9 voted unanimously in favor of the motion.

10 **e. Consider Engineering Proposal for Paoli Pike Trail Segment C:** Mark Gordon
11 reviewed the engineering proposal for Segment C of the Paoli Pike Trail from McMahon
12 Associates, stating the proposal is on target with the estimates from the PPT Master Plan.
13 Carmen motioned to move forward with the engineering work on Segment C as outlined
14 in the proposal. Janet seconded. The Board voted unanimously in favor of the motion.

15 **f. Consider Adding WSFS Bank and Fulton Bank to the List of Township**
16 **Depositories:** Jon discussed the Township's current depositories and the effects of
17 imminent bank acquisitions in the future. Carmen motioned to appoint WSFS Bank and
18 Fulton Bank as Township depositories. Chuck seconded. The Board voted unanimously
19 in favor of the motion.

20 **g. Consider Authorizing the Township Manager to execute a Letter and Signal Permit**
21 **Application for the Boot Road Restriping Project:** Janet motioned to authorize the
22 Township Manager to send a letter to Penn DOT acknowledging our awareness of the
23 project and to execute the application to amend the signal permit at Boot Road and
24 Wilson Drive. Carmen seconded. The Board voted unanimously in favor of the motion.

25 **h. Consider Recommendation to Replace the Flat Roof at the Township Building:** Rick
26 discussed the Pennoni Report on the flat roof replacement over the Public Works area and
27 overall cost considerations. Carmen commented that if the HVAC unit in this area was
28 replaced, then it would need new curbs installed. Carmen motioned authorizing Pennoni
29 to prepare bid specifications for the flat roof replacement, with the recommendation of
30 the Township Manager to hold off on the bidding process until August 2016. Chuck
31 seconded. The Board voted unanimously in favor of the motion.

32 **i. Consider Recommendation to Replace the 2003 Tilt Trailer:** Rick presented Mark's
33 recommendation to replace two trailers, both of which are fully depreciated, with one 20
34 ton trailer capable of hauling both the paver and roller. Pricing for a 20 ton trailer were
35 received as follows:

- 36 • Eagle Power & Equipment \$26,637
- 37 • Stephenson Equipment \$29,254

38 Carmen motioned to purchase the trailer from Eagle Power and Equipment for \$26,637,
39 and list the trailers on MUNICIPAL BID in an attempt to get a better price for them than the
40 quoted trade in price. Chuck seconded. The Board voted unanimously in favor of the
41 motion.

42 **j. Consider Recommendation to Replace Utility/Truck:** Rick presented Mark's
43 recommendation to replace the Township utility/truck this year. Pricing for a 2017
44 Peterbilt utility truck were received from COSTARS as follows:

- 45 • Hunter \$126,037.86
- 46 • G.L. Sayre \$126,809.00

1 Rick commented that the Hunter utility truck does not meet the Township specifications,
2 and therefore recommends the purchase of the G.L. Sayre truck. Carmen motioned to
3 authorize the purchase of the 2017 Peterbilt truck through G.L. Sayre for \$126,809. Janet
4 seconded. The Board voted unanimously in favor of the motion.

- 5 **k. Consider Recommendation from Planning Commission Concerning the Zoning**
6 **Ordinance:** Mark presented the Planning Commission's review of Articles II, III, and
7 IV of the Zoning Ordinance and asked the Board if there were certain sections of the
8 report that they would like to see given higher priority. Carmen inquired about the
9 requirements for raising chickens. Senya commended Mark and the Planning
10 Commission for their good work in producing this report.

11
12 **Approval of Minutes:** The Board reviewed and corrected the following minutes:

- 13 a. May 3, 2016 Minutes ~ Carmen motioned to approve. Janet seconded. The Board voted
14 unanimously in favor of the motion.
15 b. May 17, 2016 ~ Janet motioned to approve. Carmen seconded. The Board voted
16 unanimously in favor of the motion.
17 c. May 25, 2016 ~ Carmen motioned to approve. Janet seconded. The Board voted
18 unanimously in favor of the motion.

19
20 **Treasurer's Report:**

21 *See attached Treasurer's Report for June 2, 2016.* The Board reviewed the Treasurer's Report
22 and the current invoices. Carmen moved to graciously accept the Treasurer's Report and the
23 Expenditure Register Report as recommended by the Treasurer, to accept the receipts and to
24 authorize payment of the invoices just reviewed. Chuck seconded. The Board voted
25 unanimously to approve the motion.

26
27 **Correspondence, Reports of Interest:** The Board acknowledged receipt of the following:

- 28 • The April 27, 2016 Letter from Charles MacDonald suggesting a tunnel under Paoli Pike
29 at the pedestrian crossing.
30 • The May 31, 2016 Letter from Mars Drink advising they have filed an application for a
31 State Only Air Operating Permit with PADEP.

32
33 **Public Comment:**

34 *Chuck Heppler, 12A Reservoir Road,* commented that he has plans to appeal for corporate
35 funding as it relates to the preservation of Milltown Dam. In light of this factor, Mr. Heppler
36 asked the Board to delay, for a couple of months, the June 28, 2016 vote on the Dam.

37
38 **Adjournment:**

39 There being no further business, Carmen motioned to adjourn the meeting at 9:10 pm. Janet
40 seconded. The Board voted unanimously to adjourn.

41
42 Respectfully submitted,
43 *Christina Rossetti Hartnett*
44 *Recording Secretary*

45
46 Attachment: *Treasurer's Report for June 2, 2016*
47

June 2, 2016

**TREASURER'S REPORT
2016 RECEIPTS AND BILLS**

GENERAL FUND

Real Estate Tax	\$85,941.59	Accounts Payable	\$419,345.30
Earned Income Tax	\$220,300.00	<u>Electronic Pmts:</u>	
Local Service Tax	\$23,700.00	Credit Card	\$8,887.61
Transfer Tax	\$0.00	Postage	\$1,000.00
General Fund Interest Earned	\$0.00	Debt Service	\$0.00
Total Other Revenue	\$157,396.57	Payroll	\$154,929.99
Total Receipts:	\$487,338.16	Total Expenditures:	\$584,162.90

STATE LIQUID FUELS FUND

Receipts	\$0.00		
Interest Earned	\$0.00		
Total State Liquid Fuels:	\$0.00	Expenditures:	\$0.00

SINKING FUND

Receipts	\$0.00	Accounts Payable	\$26,732.58
Interest Earned	\$0.00	Credit Card	\$0.00
Total Sinking Fund:	\$0.00	Total Expenditures:	\$26,732.58

TRANSPORTATION FUND

Receipts	\$0.00		
Interest Earned	\$0.00		
Total Sinking Fund:	\$0.00	Expenditures:	\$0.00

SEWER OPERATING FUND

Receipts	\$209,921.23	Accounts Payable	\$17,805.81
Interest Earned	\$0.00	Debt Service	\$0.00
Total Sewer:	\$209,921.23	Credit Card	\$1,577.34
		Total Expenditures:	\$19,383.15

REFUSE FUND

Receipts	\$49,263.68		
Interest Earned	\$0.00		
Total Refuse:	\$49,263.68	Expenditures:	\$13,064.50

SEWER SINKING FUND

Receipts	\$0.00		
Interest Earned	\$0.00		
Total Sewer Sinking Fund:	\$0.00	Expenditures:	\$0.00

OPERATING RESERVE FUND

Receipts	\$0.00		
Interest Earned	\$0.00		
Total Operating Reserve Fund:	\$0.00	Expenditures:	\$0.00

Events Fund

Receipts	\$0.00		
Interest Earned	\$0.00		
Total Events Fund:	\$0.00	Expenditures:	\$0.00

1

June 16, 2016

**TREASURER'S REPORT
2016 RECEIPTS AND BILLS**

GENERAL FUND

Real Estate Tax	\$26,700.35
Earned Income Tax	\$282,749.09
Local Service Tax	\$20,957.34
Transfer Tax	\$52,557.16
General Fund Interest Earned	\$561.72
Total Other Revenue	\$62,404.29
Total Receipts:	\$445,929.95

Accounts Payable	\$399,619.15
<u>Electronic Pmts:</u>	
Credit Card	\$0.00
Postage	\$0.00
Debt Service	\$13,099.73
Payroll	\$110,268.85
Total Expenditures:	\$522,987.73

STATE LIQUID FUELS FUND

Receipts	\$0.00
Interest Earned	\$66.25
Total State Liquid Fuels:	\$66.25

Expenditures:	\$0.00
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SINKING FUND

Receipts	\$0.00
Interest Earned	\$469.88
Total Sinking Fund:	\$469.88

Accounts Payable	\$187,575.15
Credit Card	\$0.00
Total Expenditures:	\$187,575.15

TRANSPORTATION FUND

Receipts	\$0.00
Interest Earned	\$207.25
Total Sinking Fund:	\$207.25

Expenditures:	\$0.00
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SEWER OPERATING FUND

Receipts	\$55,684.82
Interest Earned	\$75.33
Total Sewer:	\$55,760.15

Accounts Payable	\$42,665.77
Debt Service	\$351,892.43
Credit Card	\$0.00
Total Expenditures:	\$394,558.20

REFUSE FUND

Receipts	\$15,007.45
Interest Earned	\$86.53
Total Refuse:	\$15,093.98

Expenditures:	\$62,877.55
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SEWER SINKING FUND

Receipts	\$0.00
Interest Earned	\$265.75
Total Sewer Sinking Fund:	\$265.75

Expenditures:	\$5,000.00
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OPERATING RESERVE FUND

Receipts	\$0.00
Interest Earned	\$267.07
Total Operating Reserve Fund:	\$267.07

Expenditures:	\$0.00
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Events Fund

Receipts	\$0.00
Interest Earned	\$1.03
Total Events Fund:	\$1.03

Expenditures:	\$0.00
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**EAST GOSHEN TOWNSHIP
MEMORANDUM**

TO: BOARD OF SUPERVISORS
FROM: BRIAN MCCOOL
SUBJECT: PROPOSED PAYMENTS OF BILLS
DATE: 06-16-2016

Please accept the attached Treasurer's Report and Expenditure Register Report for consideration by the Board of Supervisors. I recommend the Treasurer's Report and each register item be approved for payment.

General Fund expenses include the annual contribution to Goshen Fire in the amount of \$268,016, \$29,895 for rental of a milling machine and \$11,585 for asphalt.

Sinking Fund expenses include \$135,920 for E Boot Road expenses and \$49,772 for the new skid steer.

Sewer Fund expenses include \$320,000 for debt service for Ridley Creek.

Please advise if the Board decides to make any changes or if the reports are acceptable as drafted.

EAST GOSHEN TOWNSHIP
MONTHLY DEBT PAYMENT BREAKDOWN
June 27, 2016

GENERAL FUND:

Interest payment	Principal payment	Loan Description	Original loan amount	Remaining Principal	Retirement Date
\$9,751.38	\$0	Multi purpose 9 projects	\$5,500,000	\$2,715,000	2023
\$2,973.95	\$0	Applebrook Park	\$3,000,000	\$879,000	2019
\$374.40	\$0	Spray Irrigation	\$287,000	\$108,000	2021

SEWER FUND:

Interest payment	Principal payment	Loan Description	Original loan amount	Remaining Principal	Retirement Date
\$996.40	\$0	Sewer Operations Munic Authority	\$1,128,000	\$282,000	2018
\$25,014.00	\$320,000	RCSTP Expansion	\$9,500,000	\$7,260,000	2032
\$5,882.03	\$0	Diversion Projects	\$2,500,000	\$2,315,000	2033

Report Date 06/15/16

Expenditures Register
GL-1606-53134

PAGE 1

MARP05 run by BARBARA 2 : 27 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount

01	GENERAL FUND									
3313				21ST CENT.MEDIA-PHILLY #608071						
	47636	1	01452 3210	FARMERS MARKET EXPENSE	1007496 & 542	06/15/16		06/15/16		2,500.00
				FARMER'S MARKET ADS MAY 2016						
										2,500.00

2226				21ST CENT.MEDIA-PHILLY #884433						
	47635	1	01401 3400	ADVERTISING - PRINTING	1023549	06/15/16		06/15/16		109.93
				NOTICE - SPECIAL MTG. - JUNE 28						
										109.93

3696				A/C SUPPLY CO.						
	47637	1	01452 3719	ROCKETRY SUMMER CAMP	2442-0515-3099	06/15/16		06/15/16		752.11
				ROCKETS & ENGINES						
										752.11

1903				ALTHOUSE, GARY						
	47639	1	01487 1910	UNIFORMS	052916	06/15/16		06/15/16		59.95
				REIMBURSEMENT FOR WORK BOOTS						
										59.95

68				AMS APPLIED MICRO SYSTEMS LTD.						
	47640	1	01401 3120	CONSULTING SERVICES	62224	06/15/16		06/15/16		1,097.00
				MAY 2016						
	47640	2	01452 3000	GENERAL EXPENSE	62224	06/15/16		06/15/16		150.00
				MAY 2016 - PARK & REC.PROGRAM						
	47640	3	01414 5001	ZONING IT CONSULTING	62224	06/15/16		06/15/16		28.00
				MAY 2016 - GEO PLAN						
										1,275.00

2713				ANDERSON, HOWARD						
	47641	1	01409 3740	TWP. BLDG. - MAINT & REPAIRS	060516	06/15/16		06/15/16		1,350.00
				PAINT & MOVE THERMOSTATE - BLKSMTH,						
				REINSTALL GLASS FRAMES -PLANK HOUSE						
	47641	2	01454 3708	BUTTERFLY GARDEN	060516	06/15/16		06/15/16		170.00
				MATERIALS FOR BUTTERFLY GARDEN						
										1,520.00

Report Date 06/15/16

Expenditures Register
GL-1606-53134

PAGE 2

MARP05 run by BARBARA 2 : 27 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
82	47642	1	01430 2330	ASSOCIATED TRUCK PARTS VEHICLE MAINT AND REPAIR MUD FLAPS	62164	06/15/16		06/15/16		33.92
										33.92
514	47643	1	01430 2330	BEANS FORD OF WEST CHESTER, FRED VEHICLE MAINT AND REPAIR 100B2 PAD	122533W	06/15/16		06/15/16		10.94
										10.94
1198	47645	1	01410 5400	BRANDYWINE VALLEY SPCA S.P.C.A. CONTRACT	887	06/15/16		06/15/16		540.00
	47645	2	01410 5400	STRAY ANIMAL RCV'D/PICK-UP MAY 2016 S.P.C.A. CONTRACT UNCLAIMED STRAY BOARDING CONTRACT	887	06/15/16		06/15/16		150.00
										690.00
3488	47646	1	01487 1910	CINTAS CORPORATION #287 UNIFORMS NEW SHIRTS - PUBLIC WORKS	287566130	06/15/16		06/15/16		299.85
										299.85
3563	47647	1	01452 5150	COMMONWEALTH CLASSIC THEATRE CO AMPHITHEATER CONCERTS PERFORMANCE - TARTUFFE - 7/20/16	060216	06/15/16		06/15/16		1,200.00
										1,200.00
317	47648	1	01436 2450	CONTRACTOR'S CHOICE STORMWATER MATERIALS & SUPPLIES DRAINAGE FABRIC - ALLAN LANE	00201440	06/15/16		06/15/16		610.05
	47649	1	01436 2450	STORMWATER MATERIALS & SUPPLIES DRAINAGE FABRIC	00201508	06/15/16		06/15/16		610.05
										1,220.10
418	47651	1	01430 2330	EAGLE POWER AND EQUIPMENT VEHICLE MAINT AND REPAIR 3 SETS OF KEYS	T446769	06/15/16		06/15/16		19.32
										19.32

Mark - George Stern - Kevin - Mike

Report Date 06/15/16

Expenditures Register
GL-1606-53134

PAGE 3

MARP05 run by BARBARA 2 : 27 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
3687	47652	1	01367 3020	ELLIOT, BARBARA TRIPS UNABLE TO ATTEND NYC TRIP - 2	060616	06/15/16		06/15/16		80.00
										80.00
3698	47653	1	01367 3100	GIUNTA, SHARON SUMMER PROGRAM REFUND -YTH.CAMP OVERPAYMENT WK.2	060316	06/15/16		06/15/16		10.00
										10.00
551	47654	1	01430 2330	GOLDEN EQUIPMENT COMPANY VEHICLE MAINT AND REPAIR DRIVE HUB & MOTOR	16-39524	06/15/16		06/15/16		192.39
										192.39
2609	47655	1	01401 3000	GOSHEN FIRE CO. AUXILIARY GENERAL EXPENSE HALL RENTAL JUNE 28TH	060316	06/15/16		06/15/16		350.00
										350.00
594	47657	1	01454 3740	HAMMOND & MCCLOSKEY INC. EQUIPMENT MAINT. & REPAIR FURNISH & INSTALL NEW UTILITY TUB UTILITY ROOM - PARK RESTROOMS	7732	06/15/16		06/15/16		1,209.19
	47658	1	01454 3740	EQUIPMENT MAINT. & REPAIR REPAIR FAUCET - PARK MEN'S ROOM	7745	06/15/16		06/15/16		246.14
										1,455.33
598	47659	1	01436 2450	HANSON AGGREGATES PENNSYLVANIA LLC STORMWATER MATERIALS & SUPPLIES 9.93 TONS 2A SUBBASE	2927349	06/15/16		06/15/16		104.76
										104.76
2717	47660	1	01433 2500	HIGGINS & SONS INC., CHARLES A. MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR-W.C.PK & WESTTWN	42130	06/15/16		06/15/16		984.90
	47661	1	01433 2500	MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR BOOT & H.M.VILLGE	42142	06/15/16		06/15/16		382.58
	47663	1	01433 2500	MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR -AIRPORT & WILSON	42143-2	06/15/16		06/15/16		2,278.26
	47664	1	01433 2500	MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR-SCHOOL FLASHERS W.CHESTER EAST HIGH SCHOOL	42115	06/15/16		06/15/16		1,308.60
	47665	1	01433 2500	MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR - N.CHESTER RD.& BOOT RD.	42126	06/15/16		06/15/16		238.18

Report Date 06/15/16

Expenditures Register
GL-1606-53134

PAGE 4

MARP05 run by BARBARA 2 : 27 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01		GENERAL FUND								
2717				HIGGINS & SONS INC., CHARLES A.						
47666	1	01433	2500	MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR - W.CHESTER PK. & MANLEY	42141	06/15/16		06/15/16		864.28
47667	1	01433	2500	MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR -BOOT, WILSON & ST.PETER CHURCH	42131	06/15/16		06/15/16		721.16
47668	1	01433	2500	MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR -PAOLI PK.& ELLIS	42127	06/15/16		06/15/16		631.26
										7,409.22
3500				HOUP, MICHELE						
47669	1	01367	3100	SUMMER PROGRAM REFUND-YTH.CAMP OVERPAYMNT WK.2 (3)	060316	06/15/16		06/15/16		30.00
										30.00
719				KEEN COMPRESSED GAS COMPANY						
47670	1	01437	2460	GENERAL EXPENSE - SHOP VARIOUS GAS CYLINDERS	83091539	06/15/16		06/15/16		55.29
										55.29
3182				LEONARD INC., A.M.						
47671	1	01437	2460	GENERAL EXPENSE - SHOP MAJESTIC HI VISIBLE BIBS	CI16089861	06/15/16		06/15/16		93.58
										93.58
800				MACANGA INC.						
47673	1	01438	3845	EQUIP. RENTAL -RESURFAC. MILLING MACHINE, TRUCK, ROLLER	052616	06/15/16		06/15/16		29,895.38
47673	2	01438	3845	EQUIP. RENTAL -RESURFAC. 251 GALLONS TACK COAT	052616	06/15/16		06/15/16		671.17
										30,566.55
2077				MALVERN GLASS INC						
47674	1	01454	3708	BUTTERFLY GARDEN CLEAR ACRYLIC FOR BUTTERFLY SIGNS	7264	06/15/16		06/15/16		79.16
										79.16

Rain gear

Report Date 06/15/16

Expenditures Register
GL-1606-53134

PAGE 6

MARP05 run by BARBARA 2 : 27 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
3153				PECO - 01360-05046						
	47684	1	01409 7505	BOOT & PAOLI LED SIGN	060216	06/15/16		06/15/16		49.77
				01360-05046 4/28-5/31/16 LED -BOOT						
										49.77
1005				PENNSYLVANIA ONE CALL SYSTEM						
	47687	1	01438 3840	EQUIPMENT RENTAL	0000684763	06/15/16		06/15/16		29.64
				MONTHLY ACTIVITY - MAY 2016						
										29.64
1785				PENNSYLVANIA STATE POLICE						
	47688	1	01452 2025	SUMMER PROGRAM GENERAL EXPENSE	060216	06/15/16		06/15/16		8.00
				BACKGRND.CK. -MCDONALD R16183649						
	47688	2	01452 2025	SUMMER PROGRAM GENERAL EXPENSE	060216	06/15/16		06/15/16		8.00
				BACKGRND.CK. -HARTNETT R16299532						
	47688	3	01452 2025	SUMMER PROGRAM GENERAL EXPENSE	060216	06/15/16		06/15/16		8.00
				BACKGRND.CK. -BRADY R16299658						
	47688	4	01452 2025	SUMMER PROGRAM GENERAL EXPENSE	060216	06/15/16		06/15/16		8.00
				BACKGRND.CK. -BRADY R16299659						
	47688	5	01452 2025	SUMMER PROGRAM GENERAL EXPENSE	060216	06/15/16		06/15/16		8.00
				BACKGRND.CK. -DAVIES R16356357						
										40.00
3700				PFAFF, KATHLEEN						
	47689	1	01367 3100	SUMMER PROGRAM	060316	06/15/16		06/15/16		10.00
				REFUND- YTH.CAMP WEEK 2 OVERPAYMENT						
										10.00
1087				PIPE XPRESS INC.						
	47690	1	01436 2450	STORMWATER MATERIALS & SUPPLIES	79697	06/15/16		06/15/16		87.96
				DOUBLE WALL PIPING						
										87.96
1101				PORTER, EARL						
	47691	1	01430 2330	VEHICLE MAINT AND REPAIR	061516	06/15/16		06/15/16		522.39
				WOOD TO REPLACE DECKING RED TRAILER						
										522.39
1106				POSTER COMPLIANCE CENTER						
	47692	1	01401 2100	MATERIALS & SUPPLIES	2634564-RN	06/15/16		06/15/16		207.00
				ONE YR. COMPLIANCE 2016 (3 POSTERS)						
										207.00

Report Date 06/15/16

Expenditures Register
GL-1606-53134

PAGE 7

MARP05 run by BARBARA 2 : 27 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01		GENERAL FUND								
2674				PROVANTAGE CORPORATION						
	47693	1	01407 2130	COMPUTER EXPENSE HPE 1810-7 V2 SWITCHES	7681632	06/15/16		06/15/16		243.21
										243.21
1876				RANSOME RENTAL COMPANY LP						
	47694	1	01438 3840	EQUIPMENT RENTAL SKID STEER, BUCKET & HAMMER RENTAL 5/27-6/1/16	K19360-01	06/15/16		06/15/16		1,210.00
	47695	1	01436 3840	STORMWATER EQUIPMENT RENTAL EXCAVATOR, COUPLER & BUCKET RENTAL 5/18-5/23/16	K19231-01	06/15/16		06/15/16		2,560.00
										3,770.00
1212				SAYRE INC., G.L.						
	47696	1	01430 2330	VEHICLE MAINT AND REPAIR FUEL SENSOR	1-261400087	06/15/16		06/15/16		143.82
										143.82
1707				SCREENING ROOM INC						
	47697	1	01430 2330	VEHICLE MAINT AND REPAIR DECAL SET F-350 PICKUPS & CREW CAB	21442	06/15/16		06/15/16		770.00
	47698	1	01430 2330	VEHICLE MAINT AND REPAIR DECAL SETS F-350 PICKUP & EXTENDED CABS	21443	06/15/16		06/15/16		770.00
	47699	1	01430 2330	VEHICLE MAINT AND REPAIR DECAL SETS - REPLACEMENT STRIPES	21444	06/15/16		06/15/16		265.00
	47700	1	01437 2460	GENERAL EXPENSE - SHOP HELMET DECALS	21446	06/15/16		06/15/16		375.00
										2,180.00
3258				SENN REPAIRS						
	47701	1	01430 2330	VEHICLE MAINT AND REPAIR INSTALL FREON - FREIGHT TRUCK	1970	06/15/16		06/15/16		126.48
										126.48
3233				SENN TRUCKING, RICHARD L.						
	47702	1	01430 2330	VEHICLE MAINT AND REPAIR MOVE LOADER TO CASE EQUIPMENT THEN BACK TO TOWNSHIP BLDG.	052716	06/15/16		06/15/16		360.00
										360.00

New reflective lettering on Trucks Per INS Co.

Report Date 06/15/16

Expenditures Register
GL-1606-53134

PAGE 9

MARP05 run by BARBARA 2 : 27 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
03				SINKING FUND						
3670				DESCCO DESIGN & CONTSTRUCTION INC.						
	47650	1	03459 7450	CAPITAL - E. BOOT RD BRIDGE	APP.#3	06/15/16		06/15/16		135,919.54
				APP.#3 EAST BOOT RD. BRIDGE						
										135,919.54
3551				MCMAHON ASSOCIATES INC.						
	47675	1	03460 7408	PAOLI PK.TRAIL - ALL SEGMENTS	148627	06/15/16		06/15/16		1,883.61
				PROF.SERV. 4/2-4/29/16 PAOLI TRAIL SURVEY						
										1,883.61

Report Date 06/15/16

Expenditures Register
GL-1606-53134

PAGE 11

MARP05 run by BARBARA 2 : 27 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
2773				VERIZON - PW FIOS 0001-15						
	47709	1 05422	3601	R.C. COLLEC.-UTILITIES	052716-0001-15	06/15/16		06/15/16		89.99
				5/28 - 6/27/16 FIOS - PW						
										89.99

Report Date 06/15/16

Expenditures Register
GL-1606-53134

PAGE 12

MARP05 run by BARBARA 2 : 27 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
06		REFUSE								
2762	47634	1 .06427	4500	AJB A.J. BLOSENSKI INC. CONTRACTED SERV. RESIDENTIAL PICK-UP JUNE 2016	66102364	06/15/16		06/15/16		56,396.70
										56,396.70
										287,465.25
0 Printed, totaling										287,465.25

FUND SUMMARY

Fund	Bank Account	Amount	Description
01	01	76,534.36	GENERAL FUND
03	03	137,803.15	SINKING FUND
05	05	16,731.04	SEWER OPERATING
06	06	56,396.70	REFUSE
		287,465.25	

PERIOD SUMMARY

Period	Amount
1606	287,465.25
	287,465.25

Report Date 06/16/16

Expenditures Register
GL-1606-53156

PAGE 1

MARP05 run by BARBARA 9 : 53 AM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01		GENERAL FUND								
2516				WEST CHESTER UNIVERSITY						
	47714	1	01487 4600	TRAINING & SEMINARS-EMPLY	2163-0593337	06/16/16	06/16/16	06/16/16	11490	1,767.00
				SUMMER SESS. 2 -B.MCCOOL 0593337						
										1,767.00
										1,767.00
										1,767.00
										1,767.00
1 Printed, totaling										1,767.00

FUND SUMMARY

Fund	Bank Account	Amount	Description
01	01	1,767.00	GENERAL FUND

			1,767.00

PERIOD SUMMARY

Period	Amount
1606	1,767.00

	1,767.00

Report Date 06/16/16

Expenditures Register
GL-1606-53172

PAGE 1

MARP05 run by BARBARA 3 : 53 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01		GENERAL FUND								
3286	47716	1	01452 2025	3M COGENT INC. SUMMER PROGRAM GENERAL EXPENSE BACKGROUND CHECKS - SUMMER PROGRAM MCDONALD, HARTNETT, DAVIES, L.TYLER D.TYLER & E. TYLER	310256	06/16/16		06/16/16		154.50
										154.50
2051	47717	1	01432 2500	ALLIED HYDRAULIC SERVICE CO SNOW - MAINTENANCE & REPAIRS FLOW ANGLE CYLINDERS	22227	06/16/16		06/16/16		1,024.00
										1,024.00
1657	47718	1	01411 3630	AQUA PA HYDRANT & WATER SERVICE 000309987 0309987 4/29-5/31/16 HY6	060116 HY6	06/16/16		06/16/16		137.52
	47719	1	01411 3630	HYDRANT & WATER SERVICE 000310033 0310033 4/29-5/31/16 186	060116 279	06/16/16		06/16/16		4,696.50
	47719	2	01411 3631	HYDRANTS - RECHARGE EXPENSE 000310033 0310033 4/29-5/31/16 93	060116 279	06/16/16		06/16/16		2,348.25
										7,182.27
2898	47720	1	01454 3711	AQUASCAPES UNLIMITED POND TREATMENT POND SERVICE 5/31/16 PIN OAK, MARY DELL & BOW TREE	1453	06/16/16		06/16/16		1,080.13
										1,080.13
142	47724	1	01367 3100	BIGGS, ERIC SUMMER PROGRAM SENIOR CAMP CANCELATION - 4 WKS.	061316	06/16/16		06/16/16		120.00
										120.00
2695	47722	1	01454 3100	BRICKHOUSE ENVIRONMENTAL PROFESSIONAL SERVICES WATER QUALITY SAMPLING - MAY 2016	8780	06/16/16		06/16/16		315.00
										315.00

Report Date 06/16/16

Expenditures Register
GL-1606-53172

PAGE 2

MARP05 run by BARBARA 3 : 53 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
197	47723	1	01404 3140	BUCKLEY BRION MCGUIRE & MORRIS LEGAL - ADMIN LEGAL SERV. 4/25-5/20/16 HIBBERD/ APPLEBROOK PRESERVE	10166	06/16/16		06/16/16		7,011.00
										7,011.00
2996	47726	1	01409 3740	CNS CLEANING COMPANY TWP. BLDG. - MAINT & REPAIRS	47425	06/16/16		06/16/16		870.00
	47726	2	01409 3840	JANITORIAL SERV. - JUNE 2016 TWP. DISTRICT COURT EXPENSES JANITORIAL SERV. - JUNE 2016 D.C.	47425	06/16/16		06/16/16		255.00
										1,125.00
2491	47727	1	01401 3210	COMCAST 8499-10-109-0107472 COMMUNICATION EXPENSE 0107472 6/17-7/16/16 PW	060816	06/16/16		06/16/16		10.53
										10.53
3249	47729	1	01401 3210	COMCAST 8499-10-109-0107712 COMMUNICATION EXPENSE 0107712 6/5-7/4/16 EG PARK - LED	060216	06/16/16		06/16/16		105.75
										105.75
3490	47728	1	01401 3210	COMCAST 8499-10-109-0111284 COMMUNICATION EXPENSE 0111284 6/9-7/8/16 SPEC. VIDEO PW	060216	06/16/16		06/16/16		19.04
										19.04
317	47730	1	01430 2330	CONTRACTOR'S CHOICE VEHICLE MAINT AND REPAIR AIR & FUEL FILTERS, SPARK PLUGS & OIL FOR WEED WACKERS	00201933	06/16/16		06/16/16		172.67
										172.67
3702	47733	1	01401 3000	EFORCE COMPLIANCE GENERAL EXPENSE EVENT FEE 6/11/16	12959	06/16/16		06/16/16		2,500.00
										2,500.00

Report Date 06/16/16

Expenditures Register
GL-1606-53172

PAGE 3

MARP05 run by BARBARA 3 : 53 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
2075				ELVERSON SUPPLY COMPANY						
	47734	1	01409 3740	TWP. BLDG. - MAINT & REPAIRS GLAZING COMPOUND & GLASS	274535	06/16/16		06/16/16		40.83
	47735	1	01409 3740	TWP. BLDG. - MAINT & REPAIRS ACRYLIC, HINGES & NAILS - PLANK & BLACKSMITH SHOP	274504	06/16/16		06/16/16		89.59
	47736	1	01409 3740	TWP. BLDG. - MAINT & REPAIRS WIND GLASS - PLANK HOUSE	275324	06/16/16		06/16/16		94.47
										224.89
2836				FAMILY STAGES						
	47737	1	01452 2030	PRESCHOOLERS ENTERTAINMENT PETER PAN PRESENTATION 7/19/16	011116	06/16/16		06/16/16		450.00
										450.00
555				GOSHEN FIRE COMPANY						
	47738	1	01411 5000	CONTRIB. TO VOL. FIRE CO. 2016 ANNUAL CONTRIBUTION	060716	06/16/16		06/16/16		268,016.00
										268,016.00
594				HAMMOND & MCCLOSKEY INC.						
	47739	1	01409 3740	TWP. BLDG. - MAINT & REPAIRS REPLACE SUMP PUMPS - ELEVATOR SHAFT	7748	06/16/16		06/16/16		1,040.75
										1,040.75
2717				HIGGINS & SONS INC., CHARLES A.						
	47740	1	01433 2500	MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR - W.CHESTER PK., ROSEHILL & GOSHEN MEADOWS	42192	06/16/16		06/16/16		977.16
	47741	1	01433 2500	MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR - PAOLI PK.& RESERVOIR RD.	42191	06/16/16		06/16/16		497.88
	47742	1	01433 2500	MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR - N.CHESTER & MANLEY	42190	06/16/16		06/16/16		552.78
	47743	1	01433 2500	MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR - N.CHESTER & STRASBURG	42123	06/16/16		06/16/16		1,161.25
										3,189.07

Report Date 06/16/16

Expenditures Register
GL-1606-53172

PAGE 4

MARP05 run by BARBARA 3 : 53 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
627				HIGHWAY MATERIALS INC.						
	47744	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS 121.99 TONS 25C .3<3 E.BOOT RD.	1639946MB	06/16/16		06/16/16		4,867.41
	47745	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS 119.99 TONS 9.5H .3<3 E.BOOT RD.	1639980MB	06/16/16		06/16/16		5,693.53
	47745	2	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS 18.99 TONS 19B .3<3 E.BOOT RD.	1639980MB	06/16/16		06/16/16		809.93
	47746	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS 5.01 TONS 19B .3<3 E.BOOT RD.	1640014MB	06/16/16		06/16/16		213.68
										11,584.55
3703				JC SUPPLY PRODUCTS						
	47747	1	01430 2330	VEHICLE MAINT AND REPAIR PURE EZ RELEASE <i>Asphalt Remover</i>	1619	06/16/16		06/16/16		435.80
										435.80
2442				KENT AUTOMOTIVE						
	47748	1	01430 2330	VEHICLE MAINT AND REPAIR WASHERS, HEX NUTS & BOLTS	9304122543	06/16/16		06/16/16		778.20
										778.20
787				LOW-RISE ELEVATOR CO. INC						
	47749	1	01409 3740	TWP. BLDG. - MAINT & REPAIR BASIC MAINTENANCE - JUNE 2016	66879	06/16/16		06/16/16		40.00
										40.00
2963				MAD SCIENCE OF DELAWARE VALLEY						
	47752	1	01452 2030	PRESCHOOLERS ENTERTAINMENT FIRE & ICE SHOW 7/12/16	061316	06/16/16		06/16/16		329.00
										329.00
829				MASTER'S TOUCH						
	47753	1	01409 3740	TWP. BLDG. - MAINT & REPAIR EXTERM.SERVICE JUNE 2016 TWP.&PW	26857	06/16/16		06/16/16		104.00
	47754	1	01409 3840	DISTRICT COURT EXPENSES EXTERM.SERVICE JUNE 2016 DC & POL	26856	06/16/16		06/16/16		58.00
	47755	1	01454 3740	EQUIPMENT MAINT. & REPAIR EXTERM.SERVICE JUNE 2016 EG PARK	2693	06/16/16		06/16/16		84.00
										246.00

Report Date 06/16/16

Expenditures Register
GL-1606-53172

PAGE 5

MARP05 run by BARBARA 3 : 53 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
3679	47761	1	01401 3210	NETCARRIER TELECOM INC. 67846 COMMUNICATION EXPENSE 6/1/16 - 6/30/16	381454	06/16/16		06/16/16		372.49
										372.49
3680	47756	1	01401 3210	NETCARRIER TELECOM INC. 67891 COMMUNICATION EXPENSE 6/1/16 - 6/30/16	381462	06/16/16		06/16/16		117.43
										117.43
1554	47762	1	01401 2100	OFFICE DEPOT MATERIALS & SUPPLIES	842959440001	06/16/16		06/16/16		206.18
	47763	1	01401 2100	DRY ERASE MARKERS, TONER & PENS MATERIALS & SUPPLIES OFFICE DUSTER	841880968001	06/16/16		06/16/16		21.38
										227.56
2593	47766	1	01454 3600	PECO - 18510-39089 UTILITIES 18510-39089 5/3-6/2/16 BOW TRE PUMP	060716	06/16/16		06/16/16		39.60
										39.60
1032	47765	1	01409 3600	PECO - 99193-01302 TWP. BLDG. - FUEL, LIGHT, WATER 99193-01302 4/26-5/28/16	060716	06/16/16		06/16/16		1,681.19
	47765	2	01454 3600	UTILITIES 99193-01302 4/26-5/28/16	060716	06/16/16		06/16/16		170.68
										1,851.87
2539	47768	1	01409 3740	PRECISION MECHANICAL SERVICES TWP. BLDG. - MAINT & REPAIRS REPAIR A/C - BLACKSMITH SHOP	SC-14223	06/16/16		06/16/16		825.10
										825.10
2445	47769	1	01409 3740	PROTECTION BUREAU, THE TWP. BLDG. - MAINT & REPAIRS CENTRAL MONITORING SERV. 7/1/16 - 6/30/17	183055	06/16/16		06/16/16		300.00
	47769	2	01409 3740	TWP. BLDG. - MAINT & REPAIRS FULL SERVICE SYSTEM BURGLAR ALARM 7/1/16 - 6/30/17	183055	06/16/16		06/16/16		200.00
										500.00

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Report Date 06/16/16

Expenditures Register
GL-1606-53172

PAGE 6

MARP05 run by BARBARA 3 : 53 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01		GENERAL FUND								
3181				ROTHWELL DOCUMENT SOLUTIONS						
47770	1	01401	3840	RENTAL OF EQUIP. -OFFICE LANIER/ SP8300DN CONTRACT BASE RATE 6/18 - 9/17/16	91755	06/16/16		06/16/16		75.00
47770	2	01401	3840	RENTAL OF EQUIP. -OFFICE LANIER/ SP8300DN CONTRACT TOTAL CHARGE 3/18 - 6/17/16	91755	06/16/16		06/16/16		82.97
47770	3	01401	3840	RENTAL OF EQUIP. -OFFICE LANIER/ MP C5503 CONTRACT TOTAL CHARGE 3/18 - 6/17/16	91755	06/16/16		06/16/16		1,388.55
47770	4	01401	3840	RENTAL OF EQUIP. -OFFICE FREIGHT	91755	06/16/16		06/16/16		7.50
										1,554.02
2673				RYERSON & SON INC., J.T.						
47771	1	01409	3740	TWP. BLDG. - MAINT & REPAIRS METAL FOR ELEVATOR	9300433111	06/16/16		06/16/16		465.00
										465.00
3604				SUPERIOR PLUS ENERGY SERVICES						
47772	1	01430	2320	VEHICLE OPERATION - FUEL 65 GALLONS GASOLINE	41950	06/16/16		06/16/16		120.56
47773	1	01430	2320	VEHICLE OPERATION - FUEL 403 GALLONS DIESEL	34922	06/16/16		06/16/16		673.94
										794.50
2257				THOMAS COMMITTA ASSOCIATES INC.						
47774	1	01454	3100	PROFESSIONAL SERVICES PARK MASTER PLAN GRANT APPLIC. 5/4 6/13/16	061316	06/16/16		06/16/16		600.00
										600.00
1389				UNRUH TURNER BURKE FREES						
47775	1	01404	3140	LEGAL - ADMIN LEGAL SERV. 3/18-5/12/16 SS PETER & PAUL CATHOLIC CHURCH	136789	06/16/16		06/16/16		2,419.22
										2,419.22

Elevator Pit repairs

Report Date 06/16/16

Expenditures Register
GL-1606-53172

PAGE 7

MARP05 run by BARBARA 3 : 53 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
1471	47776	1 01410	5300	WESTTOWN-EAST GOSHEN POLICE POLICE GEN.EXPENSE SPECIAL DETAIL 4/21-6/9/16	970	06/16/16		06/16/16		1,980.00
										1,980.00
3704	47777	1 01367	3240	YODER, ABE PARK FEES REFUND - PAVILION RENTAL 6/5/16 RAINOUT	061316	06/16/16		06/16/16		100.00
										100.00

Report Date 06/16/16

Expenditures Register
GL-1606-53172

PAGE 8

MARP05 run by BARBARA 3 : 53 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
03				SINKING FUND						
418				EAGLE POWER AND EQUIPMENT						
	47732	1	03430 7400	CAPITAL REPLACEMENT - HWY EQUIP	U19973	06/16/16		06/16/16		49,772.00
				NEW SKID STEER 2016 KUBOTA						
										49,772.00

Report Date 06/16/16

Expenditures Register
GL-1606-53172

PAGE 10

MARP05 run by BARBARA 3 : 53 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
3678				NETCARRIER TELECOM INC. 67888						
	47759	1	05420 3602	C.C. COLLECTION -UTILITIES 6/1/16 - 6/30/16	381459	06/16/16		06/16/16		42.38
										42.38
2827				PECO - 04725-43025						
	47767	1	05420 3602	C.C. COLLECTION -UTILITIES 04725-43025 5/6-6/7/16 WYLLPEN PUMP	060916	06/16/16		06/16/16		532.59
										532.59
1031				PECO - 99193-01204						
	47764	1	05420 3602	C.C. COLLECTION -UTILITIES 99193-01204 4/27-5/31/16	060716	06/16/16		06/16/16		386.29
	47764	2	05420 3600	C.C. METERS - UTILITIES 99193-01204 4/27-5/31/16	060716	06/16/16		06/16/16		10.26
	47764	3	05422 3601	R.C. COLLEC.-UTILITIES 99193-01204 4/27-5/31/16	060716	06/16/16		06/16/16		97.01
	47764	4	05422 3600	R.C STP -UTILITIES 99193-01204 4/27-5/31/16	060716	06/16/16		06/16/16		8,614.15
										9,107.71

Report Date 06/16/16

Expenditures Register
GL-1606-53172

PAGE 11

MARP05 run by BARBARA 3 : 53 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
06		REFUSE								
241				C.C. SOLID WASTE AUTHORITY						
	47725	1	06427	4502 LANDFILL FEES	44069	06/16/16		06/16/16		6,480.85
				WEEK 6/1/16 - 6/7/16						
										6,480.85
										401,188.52
0 Printed, totaling										401,188.52

FUND SUMMARY

Fund	Bank Account	Amount	Description
01	01	319,000.94	GENERAL FUND
03	03	49,772.00	SINKING FUND
05	05	25,934.73	SEWER OPERATING
06	06	6,480.85	REFUSE
		401,188.52	

PERIOD SUMMARY

Period	Amount
1606	401,188.52
	401,188.52

Report Date 06/16/16

Expenditures Register
GL-1606-53175

MARPO5 run by BARBARA 4 : 15 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
09				Sewer Capital Reserve Fund						
356				DECKMAN ELECTRIC						
	47778	1	09409 7400	MACHINERY/EQUIPMENT - REPLACEMENT REBUILT - FLYGT PUMP	90852	06/16/16	06/16/16	06/16/16	907 p	5,000.00
										5,000.00

1 Prepays, totaling 5,000.00
0 Printed, totaling 0.00

FUND SUMMARY

Fund	Bank Account	Amount	Description
09	09	5,000.00	Sewer Capital Reserve Fund
		5,000.00	

PERIOD SUMMARY

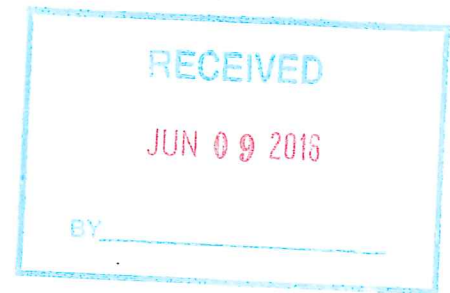
Period	Amount
1606	5,000.00
	5,000.00



Sunoco Pipeline L.P.
Right of Way Department

June 1, 2016

East Goshen Township
1580 Paoli Pike
West Chester, Pennsylvania 19380



Re: PPP Mariner East 2
Construction Notification
Tract #: PA-CH-0377.0000, Chester County, Pennsylvania

Dear East Goshen Township,

Sunoco Pipeline L.P. (SPLP) is writing to inform you that construction activities for **Mariner East 2, also known as the Pennsylvania Pipeline Project**, are expected to begin late summer/early fall 2016. This is a change from our original estimate, which had construction beginning in the spring.

Please feel free to remove stakes on your property for mowing or farming purposes, or if you prefer, we will remove the stakes for you. You can simply contact your agent, and they will coordinate the removal of the stakes from your property. The survey company will re-stake the right-of-way prior to construction.

Additionally, please notify anyone using your property, including tenants, that construction should be commencing within the above-noted timeframe. A Right-of-Way agent will notify your construction contact of record prior to commencement of activity on your specific property. In the meantime, if you have any questions or concerns, please do not hesitate to contact the agent responsible for your area or call the field office at 717-208-7735.

Thank you for your continued cooperation. We appreciate your help in making this project a success.

Respectfully,

A handwritten signature in blue ink, appearing to read "Bart L. Mitchell".

Bart L. Mitchell
Land Project Manager
Representing Sunoco Pipeline L.P.
Office: 717-208-7735