



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

August 16, 2017

RE: **Sippo Reservoir**
General Correspondence
401 Wetlands
Stark County

Mayor Kathy Catazaro-Perry
City of Massillon
Municipal Government Annex
151 Lincoln Way East
Massillon, OH 44646

Dear Mayor Catazaro-Perry:

Ohio EPA collected sediment samples in Sippo Reservoir on May 9, 2017. Results are included as Attachment 1. A review of the results did not show any irregularities in the sediment quality. As an urbanized water body, some parameters were detected at levels found in other similar sediments. We did not find results which would lead to a more restrictive management framework, a hazardous waste for example. That being said, management of sediment if dredged from the reservoir is site specific. Location of management areas will need to address runoff associated with storm water. Depending on land use, it may also require local fill permits, wetlands and other water resources would need to be adequately protected possible requiring additional permitting. Depending on chosen end uses of the material, additional regulatory oversight might apply. We do promote the beneficial use of material, as determined appropriate through regulation and analysis. We will continue to work with the City on sediment management.

There have also been several questions related to our ability to fund activities related to the dam and reservoir. We understand that the City continues to work with the ODNR Division of Dam Safety to address issues related to compliance with their program authority. Ohio EPA funds water restoration activities through a number of different programs. When evaluating dams, our preferences generally favor restoration of a free-flowing condition, connecting upstream and downstream aquatic communities. This is most often achieved through dam removal. Our funding programs are competitive for restoration projects. We evaluate parameters such as the current condition of the resource, probability of successful restoration, and cost-effectiveness. Our target endpoints are compliance with Ohio's Water Quality Standards.

Please call me with any questions at (330) 963-1134.

Sincerely,

A handwritten signature in blue ink that reads "William J. Zawiski". The signature is fluid and cursive, written over the typed name.

William J. Zawiski
Environmental Supervisor
Division of Surface Water

WJZ/cs

Attachment 1



Report of Analysis

For: DSW-NEDO
 Ohio EPA
 Twinsburg, Ohio 44087
 Attn: Mandy Razzano

Report Date: 6/8/2017

Site:		Lab Sample ID:	17051004-01
Location:	Sippo Res. - Upper Area	Collection Date:	5/9/2017 11:25 AM
Client Sample ID:		Matrix:	Solids
Collector:	Mandy Razzano	Matrix Type:	Sediment

Lab/Field Comment:

Analyte	Method	Result	Value		DF	RL	Qual	Date
pH	120.2 (9040C)	7.00	7.00	s.u.	1	0.00		5/10/2017
% Solids	180.1 (SM 2540G)	42.7	42.7	%	1	0.00		5/10/2017
Ammonia	250.0 (SM 4500-NH3B-	150	150	mg/kg	1	8.16		6/1/2017
Total Phosphorus	260.8 (365.4)	1120	1120	mg/kg	5	150		5/22/2017
TOC	335.4 (SM 5310C)	4.37	4.37	%	1	0.100		5/23/2017
Aluminum	401.1 (200.7/6010)	8420	8420	mg/kg	1	145		5/15/2017
Barium	401.1 (200.7/6010)	< 145	111	mg/kg	1	145	U+	5/15/2017
Calcium	401.1 (200.7/6010)	23000	23000	mg/kg	1	1450		5/15/2017
Iron	401.1 (200.7/6010)	24400	24400	mg/kg	1	36.1		5/15/2017
Magnesium	401.1 (200.7/6010)	5490	5490	mg/kg	1	723		5/15/2017
Manganese	401.1 (200.7/6010)	572	572	mg/kg	1	7.23		5/15/2017
Potassium	401.1 (200.7/6010)	< 1450	646	mg/kg	1	1450	U+	5/15/2017
Sodium	401.1 (200.7/6010)	< 3610	-153	mg/kg	1	3610	U-	5/15/2017
Strontium	401.1 (200.7/6010)	27.2	27.2	mg/kg	1	21.7		5/15/2017
Titanium	401.1 (200.7/6010)	< 36.1	33.5	mg/kg	1	36.1	U+,UJ	5/15/2017
<i>Titanium concentration estimated due to low QCSD recovery.</i>								
Vanadium	401.1 (200.7/6010)	< 36.1	13.4	mg/kg	1	36.1	U+	5/15/2017
Zinc	401.1 (200.7/6010)	181	181	mg/kg	1	14.5		5/15/2017
Arsenic	460.1 (200.8/6020)	22.4	22.4	mg/kg	1	1.45		5/12/2017
Beryllium	460.1 (200.8/6020)	0.525	0.525	mg/kg	1	0.145		5/12/2017
Cadmium	460.1 (200.8/6020)	0.908	0.908	mg/kg	1	0.145		5/12/2017
Chromium	460.1 (200.8/6020)	18.4	18.4	mg/kg	1	1.45		5/12/2017
Cobalt	460.1 (200.8/6020)	7.77	7.77	mg/kg	1	1.45		5/12/2017
Copper	460.1 (200.8/6020)	25.2	25.2	mg/kg	1	1.45		5/12/2017
Lead	460.1 (200.8/6020)	33.900	33.9	mg/kg	1	1.45		5/12/2017



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 Ohio EPA
 Twinsburg, Ohio 44087
 Attn: Mandy Razzano

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Location:	Sippo Res. - Upper Area	Collection Date:	5/9/2017 11:25 AM
Client Sample ID:		Matrix:	Solids
Collector:	Mandy Razzano	Matrix Type:	Sediment

Lab/Field Comment:

Analyte	Method	Result	Value		DF	RL	Qual	Date
Nickel	460.1 (200.8/6020)	18.5	18.5	mg/kg	1	1.45		5/12/2017
Selenium	460.1 (200.8/6020)	< 1.45	0.918	mg/kg	1	1.45	U+	5/12/2017
1,2,4,5-Tetrachlorobenzene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
1,2,4-Trichlorobenzene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
1,2-Dichlorobenzene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
1,3-Dichlorobenzene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
1,3-Dinitrobenzene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
1,4-Dichlorobenzene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
1,4-Naphthoquinone	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2,3,4,6-Tetrachlorophenol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2,4,5-Trichlorophenol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2,4,6-Trichlorophenol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2,4-Dichlorophenol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2,4-Dimethylphenol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2,4-Dinitrophenol	510.4 (625/8270)	< 4.47	0.00	mg/kg	1	4.47	U-	5/15/2017
2,4-Dinitrotoluene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2,6-Dichlorophenol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2,6-Dinitrotoluene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2-Acetylaminofluorene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2-Chloronaphthalene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2-Chlorophenol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2-Methylnaphthalene	510.4 (625/8270)	< 0.894	0.0375	mg/kg	1	0.894	U-	5/15/2017
2-Methylphenol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2-Nitroaniline	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017
2-Nitrophenol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-	5/15/2017



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Ohio EPA
Twinsburg, Ohio 44087
Attn: Mandy Razzano

Report Date: 6/8/2017

Site:		Lab Sample ID:	17051004-01
Location:	Sippo Res. - Upper Area	Collection Date:	5/9/2017 11:25 AM
Client Sample ID:		Matrix:	Solids
Collector:	Mandy Razzano	Matrix Type:	Sediment

Lab/Field Comment:

Analyte	Method	Result	Value	DF	RL	Qual	Date
2-Picoline	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
3&4-Methylphenol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
3,3'-Dichlorobenzidine	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
3-Methylcholanthrene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
4,6-Dinitro-2-methylphenol	510.4 (625/8270)	< 4.47	0.00	mg/kg	1	4.47	U- 5/15/2017
4-Bromophenyl-phenylether	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
4-Chloro-3-methylphenol	510.4 (625/8270)	< 4.47	0.00	mg/kg	1	4.47	U- 5/15/2017
4-Chlorophenyl-phenylether	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
4-Nitroaniline	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
4-Nitrophenol	510.4 (625/8270)	< 4.47	0.00	mg/kg	1	4.47	U- 5/15/2017
7,12-Dimethylbenz[a]anthracene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Acenaphthene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Acenaphthylene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Acetophenone	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Aniline	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Anthracene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Benzo[a]anthracene	510.4 (625/8270)	< 0.894	0.729	mg/kg	1	0.894	U+ 5/15/2017
Benzo[a]pyrene	510.4 (625/8270)	< 0.894	0.710	mg/kg	1	0.894	U+ 5/15/2017
Benzo[b]fluoranthene	510.4 (625/8270)	1.09	1.09	mg/kg	1	0.894	5/15/2017
Benzo[g,h,i]perylene	510.4 (625/8270)	< 0.894	0.832	mg/kg	1	0.894	U+ 5/15/2017
Benzo[k]fluoranthene	510.4 (625/8270)	< 0.894	0.291	mg/kg	1	0.894	U+ 5/15/2017
Benzyl alcohol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
bis(2-Chloroethoxy)methane	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
bis(2-Chloroethyl)ether	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017



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 Ohio EPA
 Twinsburg, Ohio 44087
 Attn: Mandy Razzano

Report Date: 6/8/2017

Site: Lab Sample ID: 17051004-01
 Location: Sippo Res. - Upper Area Collection Date: 5/9/2017 11:25 AM
 Client Sample ID: Matrix: Solids
 Collector: Mandy Razzano Matrix Type: Sediment

Lab/Field Comment:

Analyte	Method	Result	Value	DF	RL	Qual	Date
bis(2-Chloroisopropyl)ether	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
bis(2-Ethylhexyl)phthalate	510.4 (625/8270)	< 0.894	0.792	mg/kg	1	0.894	U+ 5/15/2017
Butylbenzylphthalate	510.4 (625/8270)	< 0.894	0.314	mg/kg	1	0.894	U+ 5/15/2017
Chrysene	510.4 (625/8270)	< 0.894	0.792	mg/kg	1	0.894	U+ 5/15/2017
Dibenz[a,h]anthracene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Dibenzofuran	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Diethylphthalate	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Dimethylphthalate	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Di-n-butylphthalate	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Di-n-octylphthalate	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Dinoseb	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Diphenylamine	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Ethyl methanesulfonate	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Fluoranthene	510.4 (625/8270)	1.45	1.45	mg/kg	1	0.894	5/15/2017
Fluorene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Hexachlorobenzene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Hexachlorobutadiene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Hexachlorocyclopentadiene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Hexachloroethane	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Hexachloropropene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Indeno[1,2,3-cd]pyrene	510.4 (625/8270)	0.984	0.984	mg/kg	1	0.894	5/15/2017
Isophorone	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Methyl methanesulfonate	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Naphthalene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Nitrobenzene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017



Report of Analysis

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 Ohio EPA
 Twinsburg, Ohio 44087
 Attn: Mandy Razzano

Report Date: 6/8/2017

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Location:	Sippo Res. - Upper Area	Collection Date:	5/9/2017	11:25 AM
Client Sample ID:		Matrix:	Solids	
Collector:	Mandy Razzano	Matrix Type:	Sediment	

Lab/Field Comment:

Analyte	Method	Result	Value	DF	RL	Qual	Date
N-Nitroso-di-n-butylamine	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U-,UJ 5/15/2017
<i>N-Nitroso-di-n-butylamine concentration estimated due to low QCSD recovery.</i>							
N-Nitroso-di-n-propylamine	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
N-Nitrosomorpholine	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
N-Nitrosopiperidine	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
N-Nitrosopyrrolidine	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
p-Dimethylaminoazobenzene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Pentachlorobenzene	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Pentachlorophenol	510.4 (625/8270)	< 4.47	2.24	mg/kg	1	4.47	U+ 5/15/2017
Phenacetin	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Phenanthrene	510.4 (625/8270)	< 0.894	0.171	mg/kg	1	0.894	U+ 5/15/2017
Phenol	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Pronamide	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
Pyrene	510.4 (625/8270)	1.23	1.23	mg/kg	1	0.894	5/15/2017
Safrole	510.4 (625/8270)	< 0.894	0.00	mg/kg	1	0.894	U- 5/15/2017
4,4'-DDD	590.4(608/8080/8081/59	< 9.01	5.61	ug/kg	1	9.01	5/31/2017
4,4'-DDE	590.4(608/8080/8081/59	21.8	21.8	ug/kg	1	9.01	5/31/2017
4,4'-DDT	590.4(608/8080/8081/59	< 9.01	2.70	ug/kg	1	9.01	U+ 5/31/2017
a-BHC	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
Aldrin	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
b-BHC	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
d-BHC	590.4(608/8080/8081/59	< 9.01	1.07	ug/kg	1	9.01	U+ 5/31/2017
Dieldrin	590.4(608/8080/8081/59	< 9.01	1.06	ug/kg	1	9.01	U+ 5/31/2017
Endosulfan I	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
Endosulfan II	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017



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 Attn: Mandy Razzano

Report Date: 6/8/2017

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Location:	Sippo Res. - Upper Area	Collection Date:	5/9/2017 11:25 AM
Client Sample ID:		Matrix:	Solids
Collector:	Mandy Razzano	Matrix Type:	Sediment

Lab/Field Comment:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Endosulfan sulfate	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
Endrin	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
Endrin aldehyde	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
Heptachlor	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
Heptachlor epoxide	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
Hexachlorobenzene	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
Methoxychlor	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
Mirex	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017
PCB-1016	590.4(608/8080/8081/59	< 45.0	0.00	ug/kg	1	45.0	U- 5/31/2017
PCB-1221	590.4(608/8080/8081/59	< 45.0	0.00	ug/kg	1	45.0	U- 5/31/2017
PCB-1232	590.4(608/8080/8081/59	< 45.0	0.00	ug/kg	1	45.0	U- 5/31/2017
PCB-1242	590.4(608/8080/8081/59	< 45.0	0.00	ug/kg	1	45.0	U- 5/31/2017
PCB-1248	590.4(608/8080/8081/59	< 45.0	0.00	ug/kg	1	45.0	U- 5/31/2017
PCB-1254	590.4(608/8080/8081/59	< 45.0	0.00	ug/kg	1	45.0	U- 5/31/2017
PCB-1260	590.4(608/8080/8081/59	< 45.0	0.00	ug/kg	1	45.0	U- 5/31/2017
γ-BHC	590.4(608/8080/8081/59	< 9.01	0.00	ug/kg	1	9.01	U- 5/31/2017



Report of Analysis

For: DSW-NEDO
Ohio EPA
Twinsburg, Ohio 44087
Attn: Mandy Razzano

Report Date: 6/8/2017

Site:		Lab Sample ID:	17051004-02
Location:	Sippo Res. - Dam Area	Collection Date:	5/9/2017 10:58 AM
Client Sample ID:		Matrix:	Solids
Collector:	Mandy Razzano	Matrix Type:	Sediment

Lab/Field Comment:

Analyte	Method	Result	Value	DF	RL	Qual	Date
pH	120.2 (9040C)	7.16	7.16	s.u.	1	0.00	5/10/2017
% Solids	180.1 (SM 2540G)	45.6	45.6	%	1	0.00	5/10/2017
Ammonia	250.0 (SM 4500-NH3B-	62.8	62.8	mg/kg	1	7.69	6/1/2017
Total Phosphorous	260.8 (365.4)	1060	1060	mg/kg	5	141	5/17/2017
TOC	335.4 (SM 5310C)	4.30	4.30	%	1	0.100	5/23/2017
Aluminum	401.1 (200.7/6010)	9960	9960	mg/kg	1	154	5/15/2017
Barium	401.1 (200.7/6010)	< 154	113	mg/kg	1	154	U+ 5/15/2017
Calcium	401.1 (200.7/6010)	22000	22000	mg/kg	1	1540	5/15/2017
Iron	401.1 (200.7/6010)	27200	27200	mg/kg	1	38.6	J 5/15/2017
<i>Iron concentration estimated due to low matrix spike recovery.</i>							
Magnesium	401.1 (200.7/6010)	5660	5660	mg/kg	1	772	5/15/2017
Manganese	401.1 (200.7/6010)	602	602	mg/kg	1	7.72	5/15/2017
Potassium	401.1 (200.7/6010)	< 1540	812	mg/kg	1	1540	U+ 5/15/2017
Sodium	401.1 (200.7/6010)	< 3860	-129	mg/kg	1	3860	U- 5/15/2017
Strontium	401.1 (200.7/6010)	28.0	28.0	mg/kg	1	23.2	5/15/2017
Titanium	401.1 (200.7/6010)	39.9	39.9	mg/kg	1	38.6	UJ 5/15/2017
<i>Titanium concentration estimated due to low QCSD recovery.</i>							
Vanadium	401.1 (200.7/6010)	< 38.6	16.0	mg/kg	1	38.6	U+ 5/15/2017
Zinc	401.1 (200.7/6010)	192	192	mg/kg	1	15.4	5/15/2017
Arsenic	460.1 (200.8/6020)	23.4	23.4	mg/kg	1	1.54	5/12/2017
Beryllium	460.1 (200.8/6020)	0.580	0.580	mg/kg	1	0.154	5/12/2017
Cadmium	460.1 (200.8/6020)	0.961	0.961	mg/kg	1	0.154	5/12/2017
Chromium	460.1 (200.8/6020)	19.0	19.0	mg/kg	1	1.54	5/12/2017
Cobalt	460.1 (200.8/6020)	8.45	8.45	mg/kg	1	1.54	5/12/2017
Copper	460.1 (200.8/6020)	26.8	26.8	mg/kg	1	1.54	5/12/2017
Lead	460.1 (200.8/6020)	36.800	36.8	mg/kg	1	1.54	5/12/2017



Report of Analysis

For: DSW-NEDO
Ohio EPA
Twinsburg, Ohio 44087
Attn: Mandy Razzano

Report Date: 6/8/2017

Site:		Lab Sample ID:	17051004-02
Location:	Sippo Res. - Dam Area	Collection Date:	5/9/2017 10:58 AM
Client Sample ID:		Matrix:	Solids
Collector:	Mandy Razzano	Matrix Type:	Sediment

Lab/Field Comment:

Analyte	Method	Result	Value		DF	RL	Qual	Date
Nickel	460.1 (200.8/6020)	20.7	20.7	mg/kg	1	1.54		5/12/2017
Selenium	460.1 (200.8/6020)	< 1.54	1.03	mg/kg	1	1.54	U+	5/12/2017
1,2,4,5-Tetrachlorobenzene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
1,2,4-Trichlorobenzene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
1,2-Dichlorobenzene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
1,3-Dichlorobenzene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
1,3-Dinitrobenzene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
1,4-Dichlorobenzene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
1,4-Naphthoquinone	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2,3,4,6-Tetrachlorophenol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2,4,5-Trichlorophenol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2,4,6-Trichlorophenol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2,4-Dichlorophenol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2,4-Dimethylphenol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2,4-Dinitrophenol	510.4 (625/8270)	< 4.23	0.00	mg/kg	1	4.23	U-	5/16/2017
2,4-Dinitrotoluene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2,6-Dichlorophenol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2,6-Dinitrotoluene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2-Acetylaminofluorene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2-Chloronaphthalene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2-Chlorophenol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2-Methylnaphthalene	510.4 (625/8270)	< 0.847	0.0343	mg/kg	1	0.847	U-	5/16/2017
2-Methylphenol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017
2-Nitroaniline	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-	5/16/2017



Report of Analysis

For: DSW-NEDO
Ohio EPA
Twinsburg, Ohio 44087
Attn: Mandy Razzano

Report Date: 6/8/2017

Site:		Lab Sample ID:	17051004-02
Location:	Sippo Res. - Dam Area	Collection Date:	5/9/2017 10:58 AM
Client Sample ID:		Matrix:	Solids
Collector:	Mandy Razzano	Matrix Type:	Sediment

Lab/Field Comment:

Analyte	Method	Result	Value	DF	RL	Qual	Date
2-Nitrophenol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
2-Picoline	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
3&4-Methylphenol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
3,3'-Dichlorobenzidine	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
3-Methylcholanthrene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
4,6-Dinitro-2-methylphenol	510.4 (625/8270)	< 4.23	0.00	mg/kg	1	4.23	U- 5/16/2017
4-Bromophenyl-phenylether	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
4-Chloro-3-methylphenol	510.4 (625/8270)	< 4.23	0.00	mg/kg	1	4.23	U- 5/16/2017
4-Chlorophenyl-phenylether	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
4-Nitroaniline	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
4-Nitrophenol	510.4 (625/8270)	< 4.23	0.00	mg/kg	1	4.23	U- 5/16/2017
7,12-Dimethylbenz[a]anthracene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Acenaphthene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Acenaphthylene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Acetophenone	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Aniline	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Anthracene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Benzo[a]anthracene	510.4 (625/8270)	< 0.847	0.799	mg/kg	1	0.847	U+ 5/16/2017
Benzo[a]pyrene	510.4 (625/8270)	< 0.847	0.761	mg/kg	1	0.847	U+ 5/16/2017
Benzo[b]fluoranthene	510.4 (625/8270)	1.20	1.20	mg/kg	1	0.847	5/16/2017
Benzo[g,h,i]perylene	510.4 (625/8270)	0.918	0.918	mg/kg	1	0.847	5/16/2017
Benzo[k]fluoranthene	510.4 (625/8270)	< 0.847	0.518	mg/kg	1	0.847	U+ 5/16/2017
Benzyl alcohol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
bis(2-Chloroethoxy)methane	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017



Report of Analysis

For: DSW-NEDO
Ohio EPA
Twinsburg, Ohio 44087
Attn: Mandy Razzano

Report Date: 6/8/2017

Site: Lab Sample ID: 17051004-02
Location: Sippo Res. - Dam Area Collection Date: 5/9/2017 10:58 AM
Client Sample ID: Matrix: Solids
Collector: Mandy Razzano Matrix Type: Sediment

Lab/Field Comment:

Analyte	Method	Result	Value	DF	RL	Qual	Date
bis(2-Chloroethyl)ether	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
bis(2-Chloroisopropyl)ether	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
bis(2-Ethylhexyl)phthalate	510.4 (625/8270)	< 0.847	0.634	mg/kg	1	0.847	U+ 5/16/2017
Butylbenzylphthalate	510.4 (625/8270)	< 0.847	0.285	mg/kg	1	0.847	U+ 5/16/2017
Chrysene	510.4 (625/8270)	0.916	0.916	mg/kg	1	0.847	5/16/2017
Dibenz[a,h]anthracene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Dibenzofuran	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Diethylphthalate	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Dimethylphthalate	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Di-n-butylphthalate	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Di-n-octylphthalate	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Dinoseb	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Diphenylamine	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Ethyl methanesulfonate	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Fluoranthene	510.4 (625/8270)	1.70	1.70	mg/kg	1	0.847	5/16/2017
Fluorene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Hexachlorobenzene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Hexachlorobutadiene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Hexachlorocyclopentadiene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Hexachloroethane	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Hexachloropropene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Indeno[1,2,3-cd]pyrene	510.4 (625/8270)	1.10	1.10	mg/kg	1	0.847	5/16/2017
Isophorone	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Methyl methanesulfonate	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Naphthalene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017



Report of Analysis

For: DSW-NEDO
 Ohio EPA
 Twinsburg, Ohio 44087
 Attn: Mandy Razzano

Report Date: 6/8/2017

Site: Sippo Res. - Dam Area Lab Sample ID: 17051004-02
 Location: Sippo Res. - Dam Area Collection Date: 5/9/2017 10:58 AM
 Client Sample ID: Matrix: Solids
 Collector: Mandy Razzano Matrix Type: Sediment

Lab/Field Comment:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Nitrobenzene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
N-Nitroso-di-n-butylamine	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U-,UJ 5/16/2017
<i>N-Nitroso-di-n-butylamine concentration estimated due to low QCSD recovery.</i>							
N-Nitroso-di-n-propylamine	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
N-Nitrosomorpholine	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
N-Nitrosopiperidine	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
N-Nitrosopyrrolidine	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
p-Dimethylaminoazobenzene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Pentachlorobenzene	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Pentachlorophenol	510.4 (625/8270)	< 4.23	0.00	mg/kg	1	4.23	U- 5/16/2017
Phenacetin	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Phenanthrene	510.4 (625/8270)	< 0.847	0.241	mg/kg	1	0.847	U+ 5/16/2017
Phenol	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Pronamide	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
Pyrene	510.4 (625/8270)	1.32	1.32	mg/kg	1	0.847	5/16/2017
Safrole	510.4 (625/8270)	< 0.847	0.00	mg/kg	1	0.847	U- 5/16/2017
4,4'-DDD	590.4(608/8080/8081/59	< 8.42	5.27	ug/kg	1	8.42	5/31/2017
4,4'-DDE	590.4(608/8080/8081/59	17.2	17.2	ug/kg	1	8.42	5/31/2017
4,4'-DDT	590.4(608/8080/8081/59	< 8.42	2.94	ug/kg	1	8.42	U+ 5/31/2017
a-BHC	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
Aldrin	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
b-BHC	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
d-BHC	590.4(608/8080/8081/59	< 8.42	0.950	ug/kg	1	8.42	U+ 5/31/2017
Dieldrin	590.4(608/8080/8081/59	< 8.42	1.10	ug/kg	1	8.42	U+ 5/31/2017
Endosulfan I	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017



Report of Analysis

For: DSW-NEDO
 Ohio EPA
 Twinsburg, Ohio 44087
 Attn: Mandy Razzano

Report Date: 6/8/2017

Site:		Lab Sample ID:	17051004-02
Location:	Sippo Res. - Dam Area	Collection Date:	5/9/2017 10:58 AM
Client Sample ID:		Matrix:	Solids
Collector:	Mandy Razzano	Matrix Type:	Sediment

Lab/Field Comment:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Endosulfan II	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
Endosulfan sulfate	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
Endrin	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
Endrin aldehyde	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
Heptachlor	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
Heptachlor epoxide	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
Hexachlorobenzene	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
Methoxychlor	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
Mirex	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017
PCB-1016	590.4(608/8080/8081/59	< 42.1	0.00	ug/kg	1	42.1	U- 5/31/2017
PCB-1221	590.4(608/8080/8081/59	< 42.1	0.00	ug/kg	1	42.1	U- 5/31/2017
PCB-1232	590.4(608/8080/8081/59	< 42.1	0.00	ug/kg	1	42.1	U- 5/31/2017
PCB-1242	590.4(608/8080/8081/59	< 42.1	0.00	ug/kg	1	42.1	U- 5/31/2017
PCB-1248	590.4(608/8080/8081/59	< 42.1	0.00	ug/kg	1	42.1	U- 5/31/2017
PCB-1254	590.4(608/8080/8081/59	< 42.1	0.00	ug/kg	1	42.1	U- 5/31/2017
PCB-1260	590.4(608/8080/8081/59	< 42.1	0.00	ug/kg	1	42.1	U- 5/31/2017
γ-BHC	590.4(608/8080/8081/59	< 8.42	0.00	ug/kg	1	8.42	U- 5/31/2017

NA = not analyzed