			500		
SiteID: OML-05-0020	, ,	50902030			
Stream Name: Little Laughery	Creek Co	unty: F	ranklin		
Description: SR 46	La	titude:	39 18 30.8	6396 Longitude:	85 14 21.90295
Drainage:	Sit	e Numbe	r: 19T-001		
SiteID: OML-05-0020	Sample Date: 4/1/2019		IDEM Sample	e#: AB37901	
Water Flow Type Run	Water Appearance	Clear		Water Depth	Algae?
Water Flow (cf/sec):	☐ Flow Estimated?		uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat		91.9	%		ASTM D888-09(C)
DO		12.3	mg/L		ASTM D888-09(C)
pH (Field)		7.65	SU		EPA 150.2
Specific Conductance (Field)		357	umho/cm		SM2510B
Temperature		3.15	°C		SM2550B(2)
Turbidity (Hach)		21.2	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		0	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 500-161024-1		<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)		120	mg/L	5	SM2320B
Chloride		16	mg/L	1	EPA 300.0
Hardness (as CaCO3)		160	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)		17	mg/L	5	SM2540D
Solids, Total (TS)		290	mg/L	10	SM2540B

COD	18	mg/L	10	SM5220C
Nitrogen, Ammonia	0.16	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	4.3	mg/L	0.5	SM4500NO3-F
Phosphorus, Total	0.085	mg/L	0.05	SM4500P-E
TKN	0.56	mg/L	0.4	SM4500N(Org)-D
TOC	3.4	mg/L	1	SM5310C
Lab ID # AB37901	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	1299.7	MPN/100mL	1	SM9223B

290 mg/L

18 mg/L

42 mg/L

14 mg/L

10

1

0.2

0.1

Solids, Total Dissolved (TDS)

Sulfate

Calcium (Total)

Magnesium (Total)

SM2540C

EPA 300.0

EPA 200.7

EPA 200.7

	Weather Code Definitions										
SC Sky Conditions		v	WD Vind Direction	WS Wind Strength	AT Air Temp						
 Clear Scattered Partly Cloudy Mist Fog Shower 	8 - Rain 9 - Snow 10 - Sleet	0 9 18 27	North (0 Degrees) East (90 Degrees) South (180 Degrees) West (270 Degrees)	0 - Calm 1 - Light 2 - Mod./Light 3 - Moderate 4 - Mod./Strong 5 - Strong 6 - Gale	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86						

SiteID: OML-05-0021	USGS Hydrologic Unit: 0	50902030502		
Stream Name: Little Laughery	Creek Co	ounty: Ripley		
Description: SR 229	La	titude: 39 15 35.	63184 Longitude: -	85 14 34.33649
Drainage:	Sit	e Number: 19T-002		
SiteID: OML-05-0021	Sample Date: 4/1/2019	IDEM Samp	le #: AB37919	
Water Flow Type Run	Water Appearance	Brown	Water Depth	Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #		<u>Result</u>	Reporting Limit	Method
% Sat		95.4 %		ASTM D888-09(C)
DO		12.34 mg/L		ASTM D888-09(C)
pH (Field)		7.83 SU		EPA 150.2
Specific Conductance (Field)		401 umho/cm		SM2510B
Temperature		4.47 °C		SM2550B(2)
Turbidity (Hach)		25.3 NTU		EPA 180.1
Air Temp		2 Lookup		Observation
Sky Conditions		1 Lookup		Observation
Wind Direction		0 Lookup		Observation
Wind Strength		1 Lookup		Observation
Lab ID # 500-161024-4		<u>Result</u>	Reporting Limit	Method
Alkalinity (as CaCO3)		140 mg/L	5	SM2320B
Chloride		25 mg/L	1	EPA 300.0
				01 / 00 / 00

Chloride	25	mg/L	1	EPA 300.0
Hardness (as CaCO3)	170	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	19	mg/L	5	SM2540D
Solids, Total (TS)	300	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	310	mg/L	10	SM2540C
Sulfate	18	mg/L	1	EPA 300.0
Calcium (Total)	47	mg/L	0.2	EPA 200.7
Magnesium (Total)	12	mg/L	0.1	EPA 200.7
COD	16	mg/L	10	SM5220C
Nitrogen, Ammonia	0.15	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2.9	mg/L	0.5	SM4500NO3-F
Phosphorus, Total	0.1	mg/L	0.05	SM4500P-E
TKN	0.58	mg/L	0.4	SM4500N(Org)-D
TOC	4.2	mg/L	1	SM5310C
Lab ID # AB37919	Result		Reporting Limit	<u>Method</u>
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	866.4	MPN/100mL	1	SM9223B

	Weather Code Definitions										
SC Sky Conditions		v	WD Vind Direction	WS Wind Strength	AT Air Temp						
 Clear Scattered Partly Cloudy Mist Fog Shower 	8 - Rain 9 - Snow 10 - Sleet	0 9 18 27	North (0 Degrees) East (90 Degrees) South (180 Degrees) West (270 Degrees)	0 - Calm 1 - Light 2 - Mod./Light 3 - Moderate 4 - Mod./Strong 5 - Strong 6 - Gale	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86						

SiteID: OML-0	5-0022	USGS Hydro	logic Unit: 0	5090203050	2					
Stream Name:	Bobs Cr		Co	unty: Riple	÷у					
Description:	CR 1300 N		Lat	t itude: 39	15	52.87559	Longitude:	-85 14	28.52278	
Drainage:			Site	e Number:	19T-00)3				
SiteID: OML-0	5-0022	Sample Date:	4/1/2019	ID	EM Sar	mple #: /	AB37918			
Water Flow Type	e Run	Water	Appearance	Brown		Water	Depth	[Algae?	
Water Flow (cf/s	sec):	Flov	/ Estimated?	🗌 Aqua	tic Life	? Ca	anopy Closed	% 0-20%		
Sampler Comme	ents:									

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	93.5	%		ASTM D888-09(C)
DO	11.52	mg/L		ASTM D888-09(C)
pH (Field)	7.81	SU		EPA 150.2
Specific Conductance (Field)	215	umho/cm		SM2510B
Temperature	6.39	°C		SM2550B(2)
Turbidity (Hach)	50.5	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-3	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	81	mg/L	5	SM2320B
Chloride	11	mg/L	1	EPA 300.0
Hardness (as CaCO3)	94	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	47	mg/L	5	SM2540D
Solids, Total (TS)	220	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	190	mg/L	10	SM2540C
Sulfate	7.9	mg/L	1	EPA 300.0
Calcium (Total)	27	mg/L	0.2	EPA 200.7
Magnesium (Total)	6.4	mg/L	0.1	EPA 200.7
COD	28	mg/L	10	SM5220C
Nitrogen, Ammonia	0.14	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.47	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.15	mg/L	0.05	SM4500P-E
TKN	1	mg/L	0.4	SM4500N(Org)-D
TOC	5.8	mg/L	1	SM5310C
Lab ID # AB37918	Result		Reporting Limit	Method

Lab ID # AB37918	<u>Result</u>	Reporting Limit	<u>Method</u>	
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B	
E. coli	275.5 MPN/100mL	1	SM9223B	

	Weather Code Definitions										
SC Sky Conditions		v	WD Vind Direction	WS Wind Strength	AT Air Temp						
 Clear Scattered Partly Cloudy Mist Fog Shower 	8 - Rain 9 - Snow 10 - Sleet	0 9 18 27	North (0 Degrees) East (90 Degrees) South (180 Degrees) West (270 Degrees)	0 - Calm 1 - Light 2 - Mod./Light 3 - Moderate 4 - Mod./Strong 5 - Strong 6 - Gale	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86						

SiteID: OML-0	05-0023	USGS Hydro	logic Unit: 05	5090203050	2				
Stream Name:	Little Laughery	Creek	Cou	u nty: Riple	у				
Description:	CR 1250 N/Leg	gion Road	Lati	itude: 39	15	6.14490	Longitude:	-85 14 26.27253	
Drainage:			Site	e Number:	19T-0	04			
SiteID: OML-	05-0023	Sample Date:	2/18/2019	ID	EM Sa	ample #:	AB36175		
Water Flow Typ	e Run	Water	Appearance	Murky		Wate	r Depth	Algae?	
Water Flow (cf/	sec):		v Estimated?	🗌 Aqua	tic Life	e? C	anopy Closed	% 0-20%	
Sampler Comm	ents:								

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	89.9	%		ASTM D888-09(C)
DO	12.38	mg/L		ASTM D888-09(C)
pH (Field)	7.65	SU		EPA 150.2
Specific Conductance (Field)	431	umho/cm		SM2510B
Temperature	2	°C		SM2550B(2)
Turbidity (Hach)	16.5	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-158962-3	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	140	mg/L	5	SM2320B
Chloride	35	mg/L	1	EPA 300.0
Hardness (as CaCO3)	170	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	15	mg/L	5	SM2540D
Solids, Total (TS)	250	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	210	mg/L	10	SM2540C
Sulfate	19	mg/L	1	EPA 300.0
Calcium (Total)	47	mg/L	0.2	EPA 200.7
Magnesium (Total)	13	mg/L	0.1	EPA 200.7
COD	12	mg/L	10	SM5220C
Nitrogen, Ammonia	0.85	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2.2	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.072	mg/L	0.05	SM4500P-E
TKN	1.3	mg/L	0.4	SM4500N(Org)-D
TOC	4.2	mg/L	1	SM5310C

SiteID: OML-05-0023	Sample Date: 3/11/2019	IDEM Sample #: AB37627	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	91.5	%		ASTM D888-09(C)
DO	11.88	mg/L		ASTM D888-09(C)
pH (Field)	7.48	SU		EPA 150.2
Specific Conductance (Field)	325	umho/cm		SM2510B
Temperature	4.34	°C		SM2550B(2)
Turbidity (Hach)	52.3	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # 500-159865-3	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	110	mg/L	5	SM2320B
Chloride	22	mg/L	1	EPA 300.0
Hardness (as CaCO3)	130	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	32	mg/L	5	SM2540D
Solids, Total (TS)	230	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	190	mg/L	10	SM2540C
Sulfate	13	mg/L	1	EPA 300.0
Calcium (Total)	34	mg/L	0.2	EPA 200.7
Magnesium (Total)	10	mg/L	0.1	EPA 200.7
COD	32	mg/L	10	SM5220C
Nitrogen, Ammonia	0.18	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.8	mg/L	0.5	SM4500NO3-F
Phosphorus, Total	0.095	mg/L	0.05	SM4500P-E
TKN		mg/L	0.4	SM4500N(Org)-D
TOC		mg/L	1	SM5310C

SiteID: OML-05-0023	Sample Date: 4/1/2019	IDEM Sample #: AB37920	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	93.9	%		ASTM D888-09(C)
DO	11.82	mg/L		ASTM D888-09(C)
pH (Field)	7.79	-		EPA 150.2
Specific Conductance (Field)	304	umho/cm		SM2510B
Temperature	5.52	°C		SM2550B(2)
Turbidity (Hach)	38.4	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-5	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	110	mg/L	5	SM2320B
Chloride	16	mg/L	1	EPA 300.0
Hardness (as CaCO3)	140	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	36	mg/L	5	SM2540D
Solids, Total (TS)	260	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	230	mg/L	10	SM2540C
Sulfate	12	mg/L	1	EPA 300.0
Calcium (Total)	38	mg/L	0.2	EPA 200.7
Magnesium (Total)	9.5	mg/L	0.1	EPA 200.7
COD	28	mg/L	10	SM5220C
Nitrogen, Ammonia	0.16	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.6	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.14	mg/L	0.05	SM4500P-E
TKN	0.65	mg/L	0.4	SM4500N(Org)-D
ТОС	5.1	mg/L	1	SM5310C
Lab ID # AB37920	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	365.4	MPN/100mL	1	SM9223B

Weather Code Definitions								
SC Sky Conditions		v	WD Vind Direction	WS Wind Strength	AT Air Temp			
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32			
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45			
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60			
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75			
5 - Mist			-	4 - Mod./Strong	5 - 76-85			
6 - Fog				5 - Strong	6 - > 86			
7 - Shower				6 - Gale				

SiteID: OML-0	5-0009	USGS Hydrol	ogic Unit: 05	0902030501			
Stream Name:	Laughery Creek		Cou	Inty: Ripley			
Description:	CR 250 W		Lati	tude: 39	15 18.76687	Longitude:	-85 18 20.21532
Drainage:			Site	Number: 1	9T-005		
SiteID: OML-0	5-0009	Sample Date:	2/18/2019	IDE	M Sample #:	AB36174	
Water Flow Type	e Run	Water	Appearance	Clear	Water	Depth	Algae?
Water Flow (cf/s	ec):	Elow	Estimated?	Aquati	c Life? Ca	anopy Closed %	0-20%
Sampler Comme	ents:						

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	92.4	%		ASTM D888-09(C)
DO	12.94	mg/L		ASTM D888-09(C)
pH (Field)	7.69	SU		EPA 150.2
Specific Conductance (Field)	409	umho/cm		SM2510B
Temperature	1.5	°C		SM2550B(2)
Turbidity (Hach)	11.6	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-158962-2	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	140	mg/L	5	SM2320B
Chloride	24	mg/L	1	EPA 300.0
Hardness (as CaCO3)	190	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	7.5	mg/L	5	SM2540D
Solids, Total (TS)	260	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	220	mg/L	10	SM2540C
Sulfate	19	mg/L	1	EPA 300.0
Calcium (Total)	53	mg/L	0.2	EPA 200.7
Magnesium (Total)	14	mg/L	0.1	EPA 200.7
COD	< 10	mg/L	10	SM5220C
Nitrogen, Ammonia	0.14	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	4.3	mg/L	0.1	SM4500NO3-F
	0.052	mg/L	0.05	SM4500P-E
Phosphorus, Total	0.055	iiig/L		
Phosphorus, Total TKN		mg/L	0.4	SM4500N(Org)-D

SiteID: OML-05-0009	Sample Date: 3/11/2019	IDEM Sample #: AB37626	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	91.4	%		ASTM D888-09(C)
DO	11.95	mg/L		ASTM D888-09(C)
pH (Field)	7.62	SU		EPA 150.2
Specific Conductance (Field)	362	umho/cm		SM2510B
Temperature	4.07	°C		SM2550B(2)
Turbidity (Hach)	47.6	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # 500-159865-2	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	110	mg/L	5	SM2320B
Chloride	19	mg/L	1	EPA 300.0
Hardness (as CaCO3)	150	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	27	mg/L	5	SM2540D
Solids, Total (TS)	270	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	210	mg/L	10	SM2540C
Sulfate	21	mg/L	1	EPA 300.0
Calcium (Total)	41	mg/L	0.2	EPA 200.7
Magnesium (Total)	12	mg/L	0.1	EPA 200.7
COD	22	mg/L	10	SM5220C
Nitrogen, Ammonia	< 0.2	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	3.7	mg/L	0.5	SM4500NO3-F
Phosphorus, Total	0.035		0.05	SM4500P-E
TKN	0.64	mg/L	0.4	SM4500N(Org)-D
TOC		mg/L	1	SM5310C

SiteID: OML-05-0009	Sample Date: 4/1/2019	IDEM Sample #: AB37902	
Water Flow Type Run	Water Appearance	Murky Water Depth	Algae?
Water Flow (cf/sec):	☐ Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	105.3	%		ASTM D888-09(C)
DO	12.98	mg/L		ASTM D888-09(C)
pH (Field)	7.92			EPA 150.2
Specific Conductance (Field)	348	umho/cm		SM2510B
Temperature	6.37	°C		SM2550B(2)
Turbidity (Hach)	23.5	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-10	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	120	mg/L	5	SM2320B
Chloride	17	mg/L	1	EPA 300.0
Hardness (as CaCO3)	160	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	14	mg/L	5	SM2540D
Solids, Total (TS)	280	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	300	mg/L	10	SM2540C
Sulfate	20	mg/L	1	EPA 300.0
Calcium (Total)	45	mg/L	0.2	EPA 200.7
Magnesium (Total)	11	mg/L	0.1	EPA 200.7
COD	21	mg/L	10	SM5220C
Nitrogen, Ammonia	0.18	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	3.2	mg/L	0.5	SM4500NO3-F
Phosphorus, Total	0.079	mg/L	0.05	SM4500P-E
TKN	0.72	mg/L	0.4	SM4500N(Org)-D
ТОС	3.8	mg/L	1	SM5310C
Lab ID # AB37902	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	108.1	MPN/100mL	1	SM9223B

Weather Code Definitions							
S	C		WD	WS	AT		
Sky Co	onditions	V	Vind Direction	Wind Strength	Air Temp		
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32		
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45		
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60		
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75		
5 - Mist			-	4 - Mod./Strong	5 - 76-85		
6 - Fog				5 - Strong	6 - > 86		
7 - Shower				6 - Gale			

SiteID: OML	05-0024	USGS Hydrologic Unit:	05090203	30501		
Stream Name:	Tub Creek		County:	Ripley		
Description:	CR 250 W		Latitude:	39 15 21.78944	Longitude:	-85 18 19.81808
Drainage:			Site Numb	er: 19T-006		
SiteID: OML	-05-0024	Sample Date: 2/18/2019	9	IDEM Sample #:	AB36173	
Water Flow Ty	pe Run	Water Appearance	ce Clear	Water	Depth	Algae?

Canopy Closed % 0-20%

Water Flow (cf/sec):

Sampler Comments:

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	91.9	%		ASTM D888-09(C)
DO	12.98	mg/L		ASTM D888-09(C)
pH (Field)	7.56	SU		EPA 150.2
Specific Conductance (Field)	436	umho/cm		SM2510B
Temperature	1.18	°C		SM2550B(2)
Turbidity (Hach)	5.66	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-158962-1	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	150	mg/L	5	SM2320B
Chloride	24	mg/L	1	EPA 300.0
Hardness (as CaCO3)	200	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	5	mg/L	5	SM2540D
Solids, Total (TS)	230	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	230	mg/L	10	SM2540C
Sulfate	20	mg/L	1	EPA 300.0
Calcium (Total)	54	mg/L	0.2	EPA 200.7
Magnesium (Total)	15	mg/L	0.1	EPA 200.7
COD	< 10	mg/L	10	SM5220C
Nitrogen, Ammonia	0.13	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	4	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.038	mg/L	0.05	SM4500P-E
TKN		mg/L	0.4	SM4500N(Org)-D

SiteID: OML-05-0024	Sample Date: 3/11/2019	IDEM Sample #: AB37625	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	91.2	%		ASTM D888-09(C)
DO	12.08	mg/L		ASTM D888-09(C)
pH (Field)	7.48	SU		EPA 150.2
Specific Conductance (Field)	337	umho/cm		SM2510B
Temperature	3.55	°C		SM2550B(2)
Turbidity (Hach)	26.6	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # 500-159865-1	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	110	mg/L	5	SM2320B
Chloride	18	mg/L	1	EPA 300.0
Hardness (as CaCO3)	140	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	14	mg/L	5	SM2540D
Solids, Total (TS)	220	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	220	mg/L	10	SM2540C
Sulfate	16	mg/L	1	EPA 300.0
Calcium (Total)	39	mg/L	0.2	EPA 200.7
Magnesium (Total)	11	mg/L	0.1	EPA 200.7
COD	19	mg/L	10	SM5220C
Nitrogen, Ammonia	0.24	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	3.6	mg/L	0.5	SM4500NO3-F
Phosphorus, Total		mg/L	0.05	SM4500P-E
TKN		mg/L	0.4	SM4500N(Org)-D
		mg/L	1	SM5310C

SiteID: OML-05-0024	Sample Date: 4/1/2019	IDEM Sample #: AB37903	
Water Flow Type Run	Water Appearance	Clear Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	104.7	%		ASTM D888-09(C)
DO	12.37	mg/L		ASTM D888-09(C)
pH (Field)	7.92	SU		EPA 150.2
Specific Conductance (Field)	342	umho/cm		SM2510B
Temperature	8.08	°C		SM2550B(2)
Turbidity (Hach)	18.3	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-11	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	120	mg/L	5	SM2320B
Chloride	15	mg/L	1	EPA 300.0
Hardness (as CaCO3)	160	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	16	mg/L	5	SM2540D
Solids, Total (TS)	280	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	290	mg/L	10	SM2540C
Sulfate	17	mg/L	1	EPA 300.0
Calcium (Total)	45	mg/L	0.2	EPA 200.7
Magnesium (Total)	12	mg/L	0.1	EPA 200.7
COD	18	mg/L	10	SM5220C
Nitrogen, Ammonia	0.12	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	3.3	mg/L	0.5	SM4500NO3-F
Phosphorus, Total	0.073	mg/L	0.05	SM4500P-E
TKN	0.54	mg/L	0.4	SM4500N(Org)-D
TOC	3.6	mg/L	1	SM5310C
Lab ID # AB37903	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	101.4	MPN/100mL	1	SM9223B

Weather Code Definitions									
SC			WD	WS	AT				
Sky Co	onditions	V	Vind Direction	Wind Strength	Air Temp				
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32				
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45				
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60				
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75				
5 - Mist			-	4 - Mod./Strong	5 - 76-85				
6 - Fog				5 - Strong	6 - > 86				
7 - Shower				6 - Gale					

SiteID: OML-	05-0025	USGS Hydrologic U	nit: 05090203	30503		
Stream Name:	Ripley Cr		County:	Ripley		
Description:	SR 48		Latitude:	39 12 25.68	560 Longitude:	-85 8 41.99721
Drainage:			Site Numb	ber : 19T-007		
SiteID: OML-	05-0025	Sample Date: 4/2/20)19	IDEM Sample	#: AB37911	
Water Flow Typ	e Glide	Water Appear	ance Brown	n W	ater Depth	Algae?
Water Flow (cf/	/sec):	☐ Flow Estim	ated?	Aquatic Life?	Canopy Closed	% 0-20%

Sampler Comments:

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	94.9	%		ASTM D888-09(C)
DO	11.9	mg/L		ASTM D888-09(C)
pH (Field)	7.96	SU		EPA 150.2
Specific Conductance (Field)	353	umho/cm		SM2510B
Temperature	5.74	°C		SM2550B(2)
Turbidity (Hach)	18	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-19	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	110	mg/L	5	SM2320B
Chloride	16	mg/L	1	EPA 300.0
Hardness (as CaCO3)	170	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	40	mg/L	5	SM2540D
Solids, Total (TS)	180	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	230	mg/L	10	SM2540C
Sulfate	11	mg/L	1	EPA 300.0
Calcium (Total)	47	mg/L	0.2	EPA 200.7
Magnesium (Total)	12	mg/L	0.1	EPA 200.7
COD	15	mg/L	10	SM5220C
Nitrogen, Ammonia	0.15	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.3	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.082	mg/L	0.05	SM4500P-E
TKN	0.44	mg/L	0.4	SM4500N(Org)-D
TOC	4.3	mg/L	1	SM5310C
Lab ID # AB37911	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	307.6	MPN/100mL	1	SM9223B

Weather Code Definitions								
SC Sky Conditions		WD Wind Direction		WS Wind Strength	AT Air Temp			
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32			
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45			
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60			
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75			
5 - Mist			-	4 - Mod./Strong	5 - 76-85			
6 - Fog				5 - Strong	6 - > 86			
7 - Shower				6 - Gale				

SiteID: OML-0	5-0026	USGS Hydrologic Uni	: 0509020	30503				
Stream Name:	Ripley Cr		County:	Ripley				
Description:	N Old Milan Rd		Latitude:	39 10	29.31366	Longitude: -	85 10 12.11020	
Drainage:			Site Numb	ber: 19T-0	08			
SiteID: OML-0	5-0026	Sample Date: 2/18/207	19	IDEM Sa	ample #:	AB36178		
Water Flow Typ	e Run	Water Appearar	nce Murky	y	Water	Depth	Algae?	
Water Flow (cf/s	sec):	Flow Estimat	ed?	Aquatic Life	e? Ca	anopy Closed %	0-20%	

Sampler Comments:

_ab ID #	Result		Reporting Limit	Method
% Sat	91	%		ASTM D888-09(C)
DO	12.74	mg/L		ASTM D888-09(C)
pH (Field)	7.78	SU		EPA 150.2
Specific Conductance (Field)	384	umho/cm		SM2510B
Temperature	1.5	°C		SM2550B(2)
Turbidity (Hach)	11.6	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-158962-6	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	150	mg/L	5	SM2320B
Chloride	15	mg/L	1	EPA 300.0
Hardness (as CaCO3)	180	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	9	mg/L	5	SM2540D
Solids, Total (TS)	230	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	220	mg/L	10	SM2540C
Sulfate	18	mg/L	1	EPA 300.0
Calcium (Total)	49	mg/L	0.2	EPA 200.7
Magnesium (Total)	14	mg/L	0.1	EPA 200.7
COD	< 10	mg/L	10	SM5220C
Nitrogen, Ammonia	0.12	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.3	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.061	mg/L	0.05	SM4500P-E
TKN	0.38	mg/L	0.4	SM4500N(Org)-D

SiteID: OML-05-0026	Sample Date: 3/11/2019	IDEM Sample #: AB37630	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	90.3	%		ASTM D888-09(C)
DO	11.68	mg/L		ASTM D888-09(C)
pH (Field)	7.35	SU		EPA 150.2
Specific Conductance (Field)	276	umho/cm		SM2510B
Temperature	4.5	°C		SM2550B(2)
Turbidity (Hach)	49.2	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-159865-6	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	110	mg/L	5	SM2320B
Chloride	10	mg/L	1	EPA 300.0
Hardness (as CaCO3)	120	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	26	mg/L	5	SM2540D
Solids, Total (TS)	200	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	170	mg/L	10	SM2540C
Sulfate	12	mg/L	1	EPA 300.0
Calcium (Total)	33	mg/L	0.2	EPA 200.7
Magnesium (Total)	9.7	mg/L	0.1	EPA 200.7
COD	23	mg/L	10	SM5220C
Nitrogen, Ammonia	0.13	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.04	mg/L	0.05	SM4500P-E
TKN	0.55	mg/L	0.4	SM4500N(Org)-D
TOC	10	mg/L	1	SM5310C

SiteID: OML-05-0026	Sample Date: 4/2/2019	IDEM Sample #: AB37910	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	90.9	%		ASTM D888-09(C)
DO	11.41	mg/L		ASTM D888-09(C)
pH (Field)	7.83	SU		EPA 150.2
Specific Conductance (Field)	326	umho/cm		SM2510B
Temperature	5.64	°C		SM2550B(2)
Turbidity (Hach)	23.5	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # 500-161024-18	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	130	mg/L	5	SM2320B
Chloride	11	mg/L	1	EPA 300.0
Hardness (as CaCO3)	150	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	18	mg/L	5	SM2540D
Solids, Total (TS)	280	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	240	mg/L	10	SM2540C
Sulfate	16	mg/L	1	EPA 300.0
Calcium (Total)	43	mg/L	0.2	EPA 200.7
Magnesium (Total)	11	mg/L	0.1	EPA 200.7
COD	9.1	mg/L	10	SM5220C
Nitrogen, Ammonia	0.16	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.075	mg/L	0.05	SM4500P-E
TKN	0.3	mg/L	0.4	SM4500N(Org)-D
TOC	3.9	mg/L	1	SM5310C
Lab ID # AB37910	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	163.1	MPN/100mL	1	SM9223B

Weather Code Definitions								
S	C		WD	WS	AT			
Sky Conditions		V	Vind Direction	Wind Strength	Air Temp			
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32			
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45			
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60			
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75			
5 - Mist			-	4 - Mod./Strong	5 - 76-85			
6 - Fog				5 - Strong	6 - > 86			
7 - Shower				6 - Gale				

Flow Estimated?

SiteID: OML-0	05-0027	USGS Hydrologic l	Jnit: 05090203	0504		
Stream Name:	Ripley Cr		County: F	Ripley		
Description:	SR 48		Latitude:	39 11 57.27241	Longitude:	-85 12 7.53762
Drainage:			Site Numbe	er: 19T-009		
SiteID: OML-	05-0027	Sample Date: 4/2/2	2019	IDEM Sample #:	AB37909	
Water Flow Typ	e Riffle	Water Appea	arance Murky	Water	Depth	Algae?

Aquatic Life?

Canopy Closed % 0-20%

Water Flow (cf/sec):
Sampler Comments:

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	94.6	%		ASTM D888-09(C)
DO	11.77	mg/L		ASTM D888-09(C)
pH (Field)	7.98	SU		EPA 150.2
Specific Conductance (Field)	318	umho/cm		SM2510B
Temperature	5.98	°C		SM2550B(2)
Turbidity (Hach)	22.1	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-17	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	130	mg/L	5	SM2320B
Chloride	9.7	mg/L	1	EPA 300.0
Hardness (as CaCO3)	150	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	17	mg/L	5	SM2540D
Solids, Total (TS)	240	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	240	mg/L	10	SM2540C
Sulfate	15	mg/L	1	EPA 300.0
Calcium (Total)	45	mg/L	0.2	EPA 200.7
Magnesium (Total)	10	mg/L	0.1	EPA 200.7
COD	< 10	mg/L	10	SM5220C
Nitrogen, Ammonia	0.15	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.064	mg/L	0.05	SM4500P-E
ТКМ	0.31	mg/L	0.4	SM4500N(Org)-D
TOC	3.9	mg/L	1	SM5310C
Lab ID # AB37909	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	2419.6	MPN/100mL	1	SM9223B
E. coli	121.1	MPN/100mL	1	SM9223B

Weather Code Definitions							
SC Sky Conditions		v	WD Vind Direction	WS Wind Strength	AT Air Temp		
 Clear Scattered Partly Cloudy Mist Fog Shower 	8 - Rain 9 - Snow 10 - Sleet	0 9 18 27	North (0 Degrees) East (90 Degrees) South (180 Degrees) West (270 Degrees)	0 - Calm 1 - Light 2 - Mod./Light 3 - Moderate 4 - Mod./Strong 5 - Strong 6 - Gale	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86		

SiteID: OML-0	5-0028	USGS Hydrologic L	Jnit: 050902	030504			
Stream Name:	N Br Ripley Cr		County:	Ripley			
Description:	N Adams Churc	h Rd	Latitude	39 12	42.35535	Longitude:	-85 12 21.51943
Drainage:			Site Num	ber: 19T-0	10		
SiteID: OML-0	5-0028	Sample Date: 4/2/2	019	IDEM Sa	ample #:	AB37907	_
Water Flow Type	e Run	Water Appea	rance Clea	ır	Water	Depth	Algae?
Water Flow (cf/s	ec):	☐ Flow Estin	nated?	Aquatic Lif	e? Ca	anopy Closed	% 0-20%
Sampler Comme	ents:						

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	96.3	%		ASTM D888-09(C)
DO	12.38	mg/L		ASTM D888-09(C)
pH (Field)	8.02	SU		EPA 150.2
Specific Conductance (Field)	369	umho/cm		SM2510B
Temperature	4.71	°C		SM2550B(2)
Turbidity (Hach)	15	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # 500-161024-15	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	150	mg/L	5	SM2320B
Chloride	12	mg/L	1	EPA 300.0
Hardness (as CaCO3)	180	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	14	mg/L	5	SM2540D
Solids, Total (TS)	260	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	280	mg/L	10	SM2540C
Sulfate	16	mg/L	1	EPA 300.0
Calcium (Total)	52	mg/L	0.2	EPA 200.7
Magnesium (Total)	12	mg/L	0.1	EPA 200.7
COD	9.6	mg/L	10	SM5220C
Nitrogen, Ammonia	0.18	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite		mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.043		0.05	SM4500P-E
TKN		mg/L	0.4	SM4500N(Org)-D
ТОС		mg/L	1	SM5310C
Lab ID # AB37907	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	2419.6	MPN/100mL	1	SM9223B
E. coli	285.1	MPN/100mL	1	SM9223B

Weather Code Definitions							
SC Sky Conditions		v	WD Vind Direction	WS Wind Strength	AT Air Temp		
 Clear Scattered Partly Cloudy Mist Fog Shower 	8 - Rain 9 - Snow 10 - Sleet	0 9 18 27	North (0 Degrees) East (90 Degrees) South (180 Degrees) West (270 Degrees)	0 - Calm 1 - Light 2 - Mod./Light 3 - Moderate 4 - Mod./Strong 5 - Strong 6 - Gale	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86		

Flow Estimated?

SiteID: OML-0	05-0029	USGS Hydrolo	gic Unit: 0	50902030	504					
Stream Name:	Ripley Cr		Co	unty: Ri	pley					
Description:	SR 129		Lat	titude: 3	39 12 35	5.72030	Longitude:	-85 12	32.74782	
Drainage: Site Number: 19T-011										
SiteID: OML-	05-0029	Sample Date:	2/18/2019		IDEM Sam	ple #: /	AB36177			
Water Flow Typ	e Run	Water A	ppearance	Clear		Water	Depth		Algae?	

Aquatic Life?

Canopy Closed % 0-20%

Water Flow (cf/sec): Sampler Comments:

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	96.2	%		ASTM D888-09(C)
DO	13.41	mg/L		ASTM D888-09(C)
pH (Field)	7.93	SU		EPA 150.2
Specific Conductance (Field)	377	umho/cm		SM2510B
Temperature	1.7	°C		SM2550B(2)
Turbidity (Hach)	10.4	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-158962-5	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	150	mg/L	5	SM2320B
Chloride	13	mg/L	1	EPA 300.0
Hardness (as CaCO3)	180	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	7	mg/L	5	SM2540D
Solids, Total (TS)	220	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	220	mg/L	10	SM2540C
Sulfate	17	mg/L	1	EPA 300.0
Calcium (Total)	50	mg/L	0.2	EPA 200.7
Magnesium (Total)	13	mg/L	0.1	EPA 200.7
COD	< 10	mg/L	10	SM5220C
Nitrogen, Ammonia	0.11	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.4	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.039	mg/L	0.05	SM4500P-E
TKN	0.41	mg/L	0.4	SM4500N(Org)-D
TOC	2.8	mg/L	1	SM5310C

SiteID: OML-05-0029	Sample Date: 3/11/2019	IDEM Sample #: AB37629	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	93.2	%		ASTM D888-09(C)
DO	11.88	mg/L		ASTM D888-09(C)
pH (Field)	7.59	SU		EPA 150.2
Specific Conductance (Field)	257	umho/cm		SM2510B
Temperature	5.07	°C		SM2550B(2)
Turbidity (Hach)	46.1	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-159865-5	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	100	mg/L	5	SM2320B
Chloride	8.2	mg/L	1	EPA 300.0
Hardness (as CaCO3)	120	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	19	mg/L	5	SM2540D
Solids, Total (TS)	160	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	170	mg/L	10	SM2540C
Sulfate	10	mg/L	1	EPA 300.0
Calcium (Total)	33	mg/L	0.2	EPA 200.7
Magnesium (Total)	8.6	mg/L	0.1	EPA 200.7
COD	26	mg/L	10	SM5220C
Nitrogen, Ammonia	0.13	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.2	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.04	mg/L	0.05	SM4500P-E
TKN	0.49	mg/L	0.4	SM4500N(Org)-D
TOC		mg/L	1	SM5310C

SiteID: OML-05-0029	Sample Date: 4/2/2019	IDEM Sample #: AB37906	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	92.2	%		ASTM D888-09(C)
DO	11.64	mg/L		ASTM D888-09(C)
pH (Field)	7.97	SU		EPA 150.2
Specific Conductance (Field)	312	umho/cm		SM2510B
Temperature	5.43	°C		SM2550B(2)
Turbidity (Hach)	22	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # 500-161024-14	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	130	mg/L	5	SM2320B
Chloride	9.3	mg/L	1	EPA 300.0
Hardness (as CaCO3)	150	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	16	mg/L	5	SM2540D
Solids, Total (TS)	250	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	260	mg/L	10	SM2540C
Sulfate	14	mg/L	1	EPA 300.0
Calcium (Total)	44	mg/L	0.2	EPA 200.7
Magnesium (Total)	9.9	mg/L	0.1	EPA 200.7
COD	9.6	mg/L	10	SM5220C
Nitrogen, Ammonia	0.14	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.061	mg/L	0.05	SM4500P-E
TKN	0.64	mg/L	0.4	SM4500N(Org)-D
TOC	4	mg/L	1	SM5310C
Lab ID # AB37906	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	201.4	MPN/100mL	1	SM9223B

	Weather Code Definitions								
S	C		WD	WS	AT				
Sky Co	onditions	V	Vind Direction	Wind Strength	Air Temp				
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32				
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45				
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60				
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75				
5 - Mist			-	4 - Mod./Strong	5 - 76-85				
6 - Fog				5 - Strong	6 - > 86				
7 - Shower				6 - Gale					

SiteID: OML-0	5-0030	USGS Hydrologi	ic Unit: 05	0902030505			
Stream Name:	Laughery Creel	ĸ	Cou	nty: Ripley	,		
Description:	SR 48		Latit	tude: 39	11 50.29840	Longitude: -	85 14 51.02670
Drainage:			Site	Number: 1	9T-012		
SiteID: OML-0	5-0030	Sample Date: 2/	18/2019	IDE	M Sample #:	AB36176	
Water Flow Type	e Run	Water App	pearance	Murky	Water	Depth	Algae?
Water Flow (cf/s	ec):		stimated?	Aquati	c Life? C	anopy Closed %	0-20%
Sampler Comme	ents:						

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	93	%		ASTM D888-09(C)
DO	12.9	mg/L		ASTM D888-09(C)
pH (Field)	7.81	SU		EPA 150.2
Specific Conductance (Field)	403	umho/cm		SM2510B
Temperature	1.8	°C		SM2550B(2)
Turbidity (Hach)	11.9	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-158962-4	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	150	mg/L	5	SM2320B
Chloride	19	mg/L	1	EPA 300.0
Hardness (as CaCO3)	180	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	10	mg/L	5	SM2540D
Solids, Total (TS)	230	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	230	mg/L	10	SM2540C
Sulfate	17	mg/L	1	EPA 300.0
Calcium (Total)	52	mg/L	0.2	EPA 200.7
Magnesium (Total)	13	mg/L	0.1	EPA 200.7
COD	9.7	mg/L	10	SM5220C
Nitrogen, Ammonia	0.18	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2.7	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.047	mg/L	0.05	SM4500P-E
TKN	0.56	mg/L	0.4	SM4500N(Org)-D

SiteID: OML-05-0030	Sample Date: 3/11/2019	IDEM Sample #: AB37628	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat	91.2	%		ASTM D888-09(C)
DO	11.57	mg/L		ASTM D888-09(C)
pH (Field)	7.61	SU		EPA 150.2
Specific Conductance (Field)	276	umho/cm		SM2510B
Temperature	5.22	°C		SM2550B(2)
Turbidity (Hach)	64.1	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-159865-4	Result		Reporting Limit	Method
Alkalinity (as CaCO3)	99	mg/L	5	SM2320B
Chloride	12	mg/L	1	EPA 300.0
Hardness (as CaCO3)	120	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	34	mg/L	5	SM2540D
Solids, Total (TS)	240	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	200	mg/L	10	SM2540C
Sulfate	11	mg/L	1	EPA 300.0
Calcium (Total)	34	mg/L	0.2	EPA 200.7
Magnesium (Total)	8.8	mg/L	0.1	EPA 200.7
COD		mg/L	10	SM5220C
Nitrogen, Ammonia	0.18	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite		mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.097		0.05	SM4500P-E
TKN		mg/L	0.4	SM4500N(Org)-D
TOC		mg/L	1	SM5310C

SiteID: OML-05-0030	Sample Date: 4/2/2019	IDEM Sample #: AB37905	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	91.3	%		ASTM D888-09(C)
DO	11.26	mg/L		ASTM D888-09(C)
pH (Field)	7.93	SU		EPA 150.2
Specific Conductance (Field)	333	umho/cm		SM2510B
Temperature	6.31	°C		SM2550B(2)
Turbidity (Hach)	25.5	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	2	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # 500-161024-13	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	130	mg/L	5	SM2320B
Chloride	13	mg/L	1	EPA 300.0
Hardness (as CaCO3)	150	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	21	mg/L	5	SM2540D
Solids, Total (TS)	260	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	280	mg/L	10	SM2540C
Sulfate	15	mg/L	1	EPA 300.0
Calcium (Total)	45	mg/L	0.2	EPA 200.7
Magnesium (Total)	10	mg/L	0.1	EPA 200.7
COD	11	mg/L	10	SM5220C
Nitrogen, Ammonia	0.15	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.9	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.078	mg/L	0.05	SM4500P-E
TKN	0.6	mg/L	0.4	SM4500N(Org)-D
ТОС	4.1	mg/L	1	SM5310C
Lab ID # AB37905	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	124.6	MPN/100mL	1	SM9223B

		We	eather Code Def	initions	
SC Sky Conditions		v	WD Vind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist			-	4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	

SiteID: OML-05-0031	USGS Hydrologic Unit:	050902030505		
Stream Name: Laughery Cree	k C	ounty: Ripley		
Description: Salem Rd	L	atitude: 39 13 38.	71781 Longitude:	-85 14 31.34545
Drainage:	S	ite Number: 19T-013		
SiteID: OML-05-0031	Sample Date: 4/1/2019	IDEM Samp	le #: AB37922	
Water Flow Type Run	Water Appearance	Brown	Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	? Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #		<u>Result</u>	Reporting Limit	Method
% Sat		93.9 %		ASTM D888-09(C)
DO		11.93 mg/L		ASTM D888-09(C)
pH (Field)		7.86 SU		EPA 150.2

pi i (Field)	7.00	30	LFA 150.2
Specific Conductance (Field)	309	umho/cm	SM2510B
Temperature	5.16	°C	SM2550B(2)
Turbidity (Hach)	39.2	NTU	EPA 180.1
Air Temp	2	Lookup	Observation
Sky Conditions	1	Lookup	Observation
Wind Direction	0	Lookup	Observation
Wind Strength	1	Lookup	Observation
Lab ID # 500-161024-7	Result	<u>Reporting Li</u>	mit Method
Alkalinity (as CaCO3)	110	mg/L 5	SM2320B
Chloride	14	mg/L 1	EPA 300.0
Hardness (as CaCO3)	140	mg/L 1.3	SM2340B
Solids, Suspended Total, (TSS)	30	mg/L 5	SM2540D
Solids, Total (TS)	270	mg/L 10	SM2540B
Solids, Total Dissolved (TDS)	260	mg/L 10	SM2540C
Sulfate	13	mg/L 1	EPA 300.0
Calcium (Total)	40	mg/L 0.2	EPA 200.7
Magnesium (Total)	9.2	mg/L 0.1	EPA 200.7
COD	29	mg/L 10	SM5220C
Nitrogen, Ammonia	0.16	mg/L 0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2.2	mg/L 0.5	SM4500NO3-F

TOC	4.8 mg/L	1	SM5310C	
Lab ID # AB37922	<u>Result</u>	Reporting Limit	Method	
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B	
E. coli	435.2 MPN/100mL	1	SM9223B	

0.13 mg/L

0.52 mg/L

Phosphorus, Total

TKN

SM4500P-E

SM4500N(Org)-D

0.05

0.4

	Weather Code Definitions							
~	SC onditions	v	WD Vind Direction	WS Wind Strength	AT Air Temp			
 Clear Scattered Partly Cloudy Mist Fog Shower 	8 - Rain 9 - Snow 10 - Sleet	0 9 18 27	North (0 Degrees) East (90 Degrees) South (180 Degrees) West (270 Degrees)	0 - Calm 1 - Light 2 - Mod./Light 3 - Moderate 4 - Mod./Strong 5 - Strong 6 - Gale	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86			

SiteID: OML060-0007	USGS Hydrologi	c Unit: 050902030505		
Stream Name: Laugher	y Creek	County: Ripley		
Description: SR 229		Latitude: 39	14 43.58250 Longitude:	-85 14 52.34751
Drainage:		Site Number: 19)T-014	
SiteID: OML060-0007	Sample Date: 4/1	1/2019 IDEN	I Sample # : AB37921	
Water Flow Type Run	Water App	earance Brown	Water Depth	Algae?
Water Flow (cf/sec):	☐ Flow Es	timated?	Life? Canopy Closed	% 0-20%
Sampler Comments:				
Lab ID #		<u>Result</u>	<u>Reporting Limit</u>	Method
	% Sat	95.6 %		ASTM D888-09(C)
	DO	12.31 mg/L		ASTM D888-09(C)
pH	(Field)	7.88 SU		EPA 150.2

315 umho/cm

4.53 °C

31.4 NTU

	01.4			LI / 100.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-6	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	110	mg/L	5	SM2320B
Chloride	12	mg/L	1	EPA 300.0
Hardness (as CaCO3)	150	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	18	mg/L	5	SM2540D
Solids, Total (TS)	270	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	270	mg/L	10	SM2540C
Sulfate	15	mg/L	1	EPA 300.0
Calcium (Total)	43	mg/L	0.2	EPA 200.7
Magnesium (Total)	9.5	mg/L	0.1	EPA 200.7
COD	27	mg/L	10	SM5220C
Nitrogen, Ammonia	0.14	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2.8	mg/L	0.5	SM4500NO3-F
Phosphorus, Total	0.1	mg/L	0.05	SM4500P-E
TKN	0.57	mg/L	0.4	SM4500N(Org)-D
тос	4.6	mg/L	1	SM5310C
Lab ID # AB37921	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	167	MPN/100mL	1	SM9223B

Specific Conductance (Field)

Temperature

Turbidity (Hach)

SM2510B

SM2550B(2)

EPA 180.1

Weather Code Definitions								
~	C nditions	V	WD Vind Direction	WS Wind Strength	AT Air Temp			
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32			
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45			
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60			
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75			
5 - Mist			-	4 - Mod./Strong	5 - 76-85			
6 - Fog				5 - Strong	6 - > 86			
7 - Shower				6 - Gale				

SiteID: OML0	60-0005	USGS Hydrolo	ogic Unit: 05	0902030505			
Stream Name:	Tributary of La	ughery Creek	Cou	Inty: Ripley	,		
Description:	CR 1050 N		Lati	tude: 39	13 40.78137	Longitude:	-85 16 49.51887
Drainage:			Site	Number: 1	9T-015		
SiteID: OML0	60-0005	Sample Date:	4/1/2019	IDE	M Sample #:	AB37923	
Water Flow Typ	e Run	Water A	ppearance	Clear	Water	Depth	Algae?
Water Flow (cf/	sec):	☐ Flow	Estimated?	Aquati	c Life? C	anopy Closed %	% 0-20%
Sampler Comm	ents:						

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	111.3	%		ASTM D888-09(C)
DO	13.46	mg/L		ASTM D888-09(C)
pH (Field)	8.2	SU		EPA 150.2
Specific Conductance (Field)	330	umho/cm		SM2510B
Temperature	7.15	°C		SM2550B(2)
Turbidity (Hach)	14	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-8	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	120	mg/L	5	SM2320B
Chloride	13	mg/L	1	EPA 300.0
Hardness (as CaCO3)	150	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	9	mg/L	5	SM2540D
Solids, Total (TS)	290	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	250	mg/L	10	SM2540C
Sulfate	13	mg/L	1	EPA 300.0
Calcium (Total)	49	mg/L	0.2	EPA 200.7
Magnesium (Total)	7.9	mg/L	0.1	EPA 200.7
COD	9.6	mg/L	10	SM5220C
Nitrogen, Ammonia		mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	4.1	mg/L	0.5	SM4500NO3-F
Phosphorus, Total	0.046	mg/L	0.05	SM4500P-E
TKN		mg/L	0.4	SM4500N(Org)-D
TOC	3	mg/L	1	SM5310C
Lab ID # AB37923	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	44.3	MPN/100mL	1	SM9223B

		WD		
tions	V	WD Vind Direction	WS Wind Strength	AT Air Temp
	8	East (90 Degrees) South (180 Degrees)	1 - Light	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86
F	Rain 0 Snow 9 - Sleet 1	Rain 0 Snow 9 - Sleet 18	Rain0North (0 Degrees)Snow9East (90 Degrees)• Sleet18South (180 Degrees)	Rain 0 North (0 Degrees) 0 - Calm Snow 9 East (90 Degrees) 1 - Light Sleet 18 South (180 Degrees) 2 - Mod/Light 27 West (270 Degrees) 3 - Moderate 4 - Mod/Strong 4

SiteID: OML-0	05-0032	USGS Hydro	logic Unit: 0	50902030505			
Stream Name:	Walnut Fork		Co	unty: Ripley			
Description:	CR 1300 N		Lat	itude: 39	15 53.34097	Longitude:	-85 16 48.17450
Drainage:			Site	e Number: 19	9T-016		
SiteID: OML-0	05-0032	Sample Date:	4/1/2019	IDE	M Sample #:	AB37904	
Water Flow Typ	e Run	Water	Appearance	Clear	Water	Depth	Algae?
Water Flow (cf/s	sec):		v Estimated?	Aquatio	: Life? Ca	anopy Closed S	% 0-20%
Sampler Comm	ents:						

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	107.1	%		ASTM D888-09(C)
DO	12.52	mg/L		ASTM D888-09(C)
pH (Field)	7.92			EPA 150.2
Specific Conductance (Field)	365	umho/cm		SM2510B
Temperature	8.51	°C		SM2550B(2)
Turbidity (Hach)	15.3	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-12	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	130	mg/L	5	SM2320B
Chloride	15	mg/L	1	EPA 300.0
Hardness (as CaCO3)	180	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	14	mg/L	5	SM2540D
Solids, Total (TS)	290	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	340	mg/L	10	SM2540C
Sulfate	18	mg/L	1	EPA 300.0
Calcium (Total)	48	mg/L	0.2	EPA 200.7
Magnesium (Total)	13	mg/L	0.1	EPA 200.7
COD	24	mg/L	10	SM5220C
Nitrogen, Ammonia	0.15	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	3.4	mg/L	0.5	SM4500NO3-F
Phosphorus, Total	0.07	mg/L	0.05	SM4500P-E
TKN		mg/L	0.4	SM4500N(Org)-D
TOC		mg/L	1	SM5310C
Lab ID # AB37904	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	1986.3	MPN/100mL	1	SM9223B
E. coli	53	MPN/100mL	1	SM9223B

	Weather Code Definitions							
~	SC onditions	v	WD Vind Direction	WS Wind Strength	AT Air Temp			
 Clear Scattered Partly Cloudy Mist Fog Shower 	8 - Rain 9 - Snow 10 - Sleet	0 9 18 27	North (0 Degrees) East (90 Degrees) South (180 Degrees) West (270 Degrees)	0 - Calm 1 - Light 2 - Mod./Light 3 - Moderate 4 - Mod./Strong 5 - Strong 6 - Gale	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86			

SiteID: OML060-0006	USGS Hydrologic Unit: 0	50902030	505		
Stream Name: Laughery Creel	k Co	ounty: Ri	ipley		
Description: CR 200 W	La	titude:	39 14 44	4.80411 Longitude: -	85 17 28.78470
Drainage:	Sit	te Number	r: 19T-017	-	
SiteID: OML060-0006	Sample Date: 4/1/2019		IDEM Sam	ple #: AB37924	
Water Flow Type Run	Water Appearance	Murky		Water Depth	☐ Algae?
Water Flow (cf/sec):	Flow Estimated?	Aq	uatic Life?	Canopy Closed %	0-20%
Sampler Comments:					
Lab ID #		<u>Result</u>		Reporting Limit	Method
% Sat		103.8	%		ASTM D888-09(C)
DO		13.09	mg/L		ASTM D888-09(C)
pH (Field)		7.96	SU		EPA 150.2
Specific Conductance (Field)		338	umho/cm		SM2510B
Temperature		5.42	°C		SM2550B(2)
Turbidity (Hach)		23.3	NTU		EPA 180.1
Air Temp		2	Lookup		Observation
Sky Conditions		1	Lookup		Observation
Wind Direction		0	Lookup		Observation
Wind Strength		1	Lookup		Observation
Lab ID # 500-161024-9		<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)		120	mg/L	5	SM2320B
Chloride		15	mg/L	1	EPA 300.0
Hardness (as CaCO3)		160	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)		14	mg/L	5	SM2540D
Solids, Total (TS)		270	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)		270	mg/L	10	SM2540C
Sulfate		18	mg/L	1	EPA 300.0
Calcium (Total)		45	mg/L	0.2	EPA 200.7
Magnesium (Total)		11	mg/L	0.1	EPA 200.7
COD		12	mg/L	10	SM5220C
Nitrogen, Ammonia		0.15	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite		3	mg/L	0.5	SM4500NO3-F
Phosphorus, Total		0.075	mg/L	0.05	SM4500P-E
TKN		0.43	mg/L	0.4	SM4500N(Org)-D

TOC	4.2 mg/L	1	SM5310C	
Lab ID # AB37924	Result	Reporting Limit	Method	
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B	
E. coli	161.6 MPN/100mL	1	SM9223B	

	Weather Code Definitions							
~	SC onditions	v	WD Vind Direction	WS Wind Strength	AT Air Temp			
 Clear Scattered Partly Cloudy Mist Fog Shower 	8 - Rain 9 - Snow 10 - Sleet	0 9 18 27	North (0 Degrees) East (90 Degrees) South (180 Degrees) West (270 Degrees)	0 - Calm 1 - Light 2 - Mod./Light 3 - Moderate 4 - Mod./Strong 5 - Strong 6 - Gale	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86			

SiteID: OML-0	5-0033	USGS Hydrol	ogic Unit: 0	5090203050	6					
Stream Name:	Plum Creek		Co	unty: Riple	еу					
Description:	SR 350		Lat	titude: 39	8	51.29511	Longitude:	-85 15	22.04081	
Drainage:			Site	e Number:	19T-0	18				
SiteID: OML-0	5-0033	Sample Date:	4/2/2019	IC)EM Sa	ample #: /	AB37916			
Water Flow Type	e Riffle	Water	Appearance	Clear		Water	Depth	[Algae?	
Water Flow (cf/s	ec):	Flow	Estimated?	🗌 Aqua	atic Lif	e? Ca	anopy Closed	% 0-20%)	
Sampler Comme	ents:									

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	117.4	%		ASTM D888-09(C)
DO	13.44	mg/L		ASTM D888-09(C)
pH (Field)	8.77	SU		EPA 150.2
Specific Conductance (Field)	400	umho/cm		SM2510B
Temperature	9.35	°C		SM2550B(2)
Turbidity (Hach)	8.76	NTU		EPA 180.1
Air Temp	3	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # 500-161024-23	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	150	mg/L	5	SM2320B
Chloride	22	mg/L	1	EPA 300.0
Hardness (as CaCO3)	180	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	6.5	mg/L	5	SM2540D
Solids, Total (TS)	180	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	300	mg/L	10	SM2540C
Sulfate	21	mg/L	1	EPA 300.0
Calcium (Total)	57	mg/L	0.2	EPA 200.7
Magnesium (Total)	10	mg/L	0.1	EPA 200.7
COD	9.6	mg/L	10	SM5220C
Nitrogen, Ammonia	0.14	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.036	mg/L	0.05	SM4500P-E
TKN	0.44	mg/L	0.4	SM4500N(Org)-D
ТОС	3.2	mg/L	1	SM5310C
Lab ID # AB37916	<u>Result</u>		Reporting Limit	<u>Method</u>
Coliforms (Total)	2419.6	MPN/100mL	1	SM9223B
E. coli	27.2	MPN/100mL	1	SM9223B

	Weather Code Definitions							
~	SC onditions	v	WD Vind Direction	WS Wind Strength	AT Air Temp			
 Clear Scattered Partly Cloudy Mist Fog Shower 	8 - Rain 9 - Snow 10 - Sleet	0 9 18 27	North (0 Degrees) East (90 Degrees) South (180 Degrees) West (270 Degrees)	0 - Calm 1 - Light 2 - Mod./Light 3 - Moderate 4 - Mod./Strong 5 - Strong 6 - Gale	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86			

SiteID: OML-0	5-0042	USGS Hydrologic Unit:	0509020	30506				
Stream Name:	Laughery Creek		County:	Ripley				
Description:	SR 350, Osgood	Nater Intake	Latitude:	39 8	59.10005	Longitude:	-85 15	13.40180
Drainage:			Site Num	ber: 19T-0	019			
SiteID: OML-0	5-0042 S	ample Date: 2/18/201	9	IDEM S	ample #: /	AB36179		
Water Flow Type	e Pool	Water Appearance	ce Murk	у	Water	Depth		Algae?

Canopy Closed % 0-20%

Water Flow (cf/sec):

Sampler Comments:

_ab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	94.4	%		ASTM D888-09(C)
DO	13.02	mg/L		ASTM D888-09(C)
pH (Field)	7.92	SU		EPA 150.2
Specific Conductance (Field)	391	umho/cm		SM2510B
Temperature	2.1	°C		SM2550B(2)
Turbidity (Hach)	12.4	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
.ab ID # 500-158962-7	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	150	mg/L	5	SM2320B
Chloride	18	mg/L	1	EPA 300.0
Hardness (as CaCO3)	180	mg/L	1.3	SM2340B
olids, Suspended Total, (TSS)	6.5	mg/L	5	SM2540D
Solids, Total (TS)	230	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	210	mg/L	10	SM2540C
Sulfate	17	mg/L	1	EPA 300.0
Calcium (Total)	52	mg/L	0.2	EPA 200.7
Magnesium (Total)	12	mg/L	0.1	EPA 200.7
COD	< 10	mg/L	10	SM5220C
Nitrogen, Ammonia	0.14	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2.3	mg/L	0.5	SM4500NO3-F
Phosphorus, Total	0.049	mg/L	0.05	SM4500P-E
TKN	0.41	mg/L	0.4	SM4500N(Org)-D

SiteID: OML-05-0042	Sample Date: 3/11/2019	IDEM Sample #: AB37631	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	92.3	%		ASTM D888-09(C)
DO	11.51	mg/L		ASTM D888-09(C)
pH (Field)	7.66	SU		EPA 150.2
Specific Conductance (Field)	256	umho/cm		SM2510B
Temperature	5.89	°C		SM2550B(2)
Turbidity (Hach)	74.8	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-159865-7	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	91	mg/L	5	SM2320B
Chloride	12	mg/L	1	EPA 300.0
Hardness (as CaCO3)	110	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	37	mg/L	5	SM2540D
Solids, Total (TS)	230	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	190	mg/L	10	SM2540C
Sulfate	10	mg/L	1	EPA 300.0
Calcium (Total)	32	mg/L	0.2	EPA 200.7
Magnesium (Total)	7.8	mg/L	0.1	EPA 200.7
COD		mg/L	10	SM5220C
Nitrogen, Ammonia	0.21	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.7	mg/L	0.1	SM4500NO3-F
Phosphorus, Total		mg/L	0.05	SM4500P-E
TKN		mg/L	0.4	SM4500N(Org)-D
TOC	5.6	mg/L	1	SM5310C

SiteID: OML-05-0042	Sample Date: 4/2/2019	IDEM Sample #: AB37915	
Water Flow Type Pool	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments: Foar	n/Bubbles		

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	98.2	%		ASTM D888-09(C)
DO	11.81	mg/L		ASTM D888-09(C)
pH (Field)	8.09	SU		EPA 150.2
Specific Conductance (Field)	318	umho/cm		SM2510B
Temperature	7.34	°C		SM2550B(2)
Turbidity (Hach)	28.2	NTU		EPA 180.1
Air Temp	3	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	0	Lookup		Observation
Lab ID # 500-161024-22	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	130	mg/L	5	SM2320B
Chloride	12	mg/L	1	EPA 300.0
Hardness (as CaCO3)	160	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	20	mg/L	5	SM2540D
Solids, Total (TS)	130	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	280	mg/L	10	SM2540C
Sulfate	14	mg/L	1	EPA 300.0
Calcium (Total)	46	mg/L	0.2	EPA 200.7
Magnesium (Total)	9.7	mg/L	0.1	EPA 200.7
COD	8.6	mg/L	10	SM5220C
Nitrogen, Ammonia	0.15	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.7	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.081	mg/L	0.05	SM4500P-E
TKN	0.58	mg/L	0.4	SM4500N(Org)-D
TOC	4.1	mg/L	1	SM5310C
Lab ID # AB37915	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	90.8	MPN/100mL	1	SM9223B

Weather Code Definitions						
SC			WD	WS	AT	
Sky Co	nditions	V	Vind Direction	Wind Strength	Air Temp	
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32	
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45	
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60	
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75	
5 - Mist			-	4 - Mod./Strong	5 - 76-85	
6 - Fog				5 - Strong	6 - > 86	
7 - Shower				6 - Gale		

SiteID: OML-05-	-0034	USGS Hydrologic	Unit: 050	902030506				
Stream Name: C	Castators Creek		Coun	ty: Ripley				
Description: S	SR 350		Latitu	u de: 39 8	3 59.63440	Longitude:	-85 14 34.94307	
Drainage:			Site N	Number: 19	T-020			
SiteID: OML-05-	-0034	Sample Date: 4/2/	2019	IDEN	I Sample #:	AB37914		
Water Flow Type	Riffle	Water Appe	arance (Clear	Wate	r Depth	Algae?	
Water Flow (cf/see	c):	☐ Flow Est	mated?	Aquatic	Life? C	Canopy Closed	% 0-20%	
Sampler Commen	nts:							
SiteID: OML-05- Water Flow Type Water Flow (cf/see	Riffle c):	Water Appe	2019 arance (IDEN Clear	I Sample #: Wate	r Depth	U	

Lab ID #	<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat	113	%		ASTM D888-09(C)
DO	13.33	mg/L		ASTM D888-09(C)
pH (Field)	8.42	SU		EPA 150.2
Specific Conductance (Field)	325	umho/cm		SM2510B
Temperature	8.14	°C		SM2550B(2)
Turbidity (Hach)	12	NTU		EPA 180.1
Air Temp	3	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-21	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	140	mg/L	5	SM2320B
Chloride	9.7	mg/L	1	EPA 300.0
Hardness (as CaCO3)	170	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	8.5	mg/L	5	SM2540D
Solids, Total (TS)	130	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	270	mg/L	10	SM2540C
Sulfate	13	mg/L	1	EPA 300.0
Calcium (Total)	54	mg/L	0.2	EPA 200.7
Magnesium (Total)	9.4	mg/L	0.1	EPA 200.7
COD	13	mg/L	10	SM5220C
Nitrogen, Ammonia	0.14	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.3	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.042	mg/L	0.05	SM4500P-E
TKN	0.31	mg/L	0.4	SM4500N(Org)-D
TOC	3	mg/L	1	SM5310C
Lab ID # AB37914	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	1553.1	MPN/100mL	1	SM9223B
E. coli	42	MPN/100mL	1	SM9223B

		WD			
tions	WD Wind Direction		WS Wind Strength	AT Air Temp	
	8	East (90 Degrees) South (180 Degrees)	1 - Light	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86	
F	Rain 0 Snow 9 - Sleet 1	Rain 0 Snow 9 - Sleet 18	Rain0North (0 Degrees)Snow9East (90 Degrees)• Sleet18South (180 Degrees)	Rain 0 North (0 Degrees) 0 - Calm Snow 9 East (90 Degrees) 1 - Light Sleet 18 South (180 Degrees) 2 - Mod/Light 27 West (270 Degrees) 3 - Moderate 4 - Mod/Strong 4	

SiteID: OML-0	5-0012	USGS Hydrolog	gic Unit: 050	0902030507			
Stream Name:	Laughery Creel	¢	Cou	nty: Ripley			
Description:	CR 450 N		Latit	ude: 39 8	24.22718	Longitude: -	85 14 58.64216
Drainage:			Site	Number: 19T	-021		
SiteID: OML-0: Water Flow Type Water Flow (cf/s Sampler Comme	e Run ec):	Water Ap	2/18/2019 opearance Estimated?	IDEM Murky		AB36180 [.] Depth anopy Closed %	☐ Algae? 0-20%

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	96.4	%		ASTM D888-09(C)
DO	13.23	mg/L		ASTM D888-09(C)
pH (Field)	7.92	SU		EPA 150.2
Specific Conductance (Field)	395	umho/cm		SM2510B
Temperature	2.2	°C		SM2550B(2)
Turbidity (Hach)	11.8	NTU		EPA 180.1
Air Temp	1	Lookup		Observation
Sky Conditions	4	Lookup		Observation
Wind Direction	27	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-158962-8	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	150	mg/L	5	SM2320B
Chloride	18	mg/L	1	EPA 300.0
Hardness (as CaCO3)	180	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	9	mg/L	5	SM2540D
Solids, Total (TS)	230	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	220	mg/L	10	SM2540C
Sulfate	17	mg/L	1	EPA 300.0
Calcium (Total)	53	mg/L	0.2	EPA 200.7
Magnesium (Total)	12	mg/L	0.1	EPA 200.7
COD	< 10	mg/L	10	SM5220C
Nitrogen, Ammonia	0.15	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2.1	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.046	mg/L	0.05	SM4500P-E
TKN	0.39	mg/L	0.4	SM4500N(Org)-D
TOC	2.9	mg/L	1	SM5310C

SiteID: OML-05-0012	Sample Date: 3/11/2019	IDEM Sample #: AB37632	
Water Flow Type Run	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	94.6	%		ASTM D888-09(C)
DO	11.74	mg/L		ASTM D888-09(C)
pH (Field)	7.78	SU		EPA 150.2
Specific Conductance (Field)	262	umho/cm		SM2510B
Temperature	6.1	°C		SM2550B(2)
Turbidity (Hach)	76.5	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-159865-8	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	94	mg/L	5	SM2320B
Chloride	12	mg/L	1	EPA 300.0
Hardness (as CaCO3)	110	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	35	mg/L	5	SM2540D
Solids, Total (TS)	200	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	190	mg/L	10	SM2540C
Sulfate	11	mg/L	1	EPA 300.0
Calcium (Total)	32	mg/L	0.2	EPA 200.7
Magnesium (Total)	7.6	mg/L	0.1	EPA 200.7
COD	43	mg/L	10	SM5220C
Nitrogen, Ammonia	0.24	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.8	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.09	mg/L	0.05	SM4500P-E
TKN	0.59	mg/L	0.4	SM4500N(Org)-D
TOC	F 4	mg/L	1	SM5310C

SiteID: OML-05-0012	Sample Date: 4/2/2019	IDEM Sample #: AB37917	
Water Flow Type Pool	Water Appearance	Brown Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life? Canopy Closed %	0-20%
Sampler Comments:			

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	103	%		ASTM D888-09(C)
DO	12.18	mg/L		ASTM D888-09(C)
pH (Field)	8.21	SU		EPA 150.2
Specific Conductance (Field)	326	umho/cm		SM2510B
Temperature	7.97	°C		SM2550B(2)
Turbidity (Hach)	24.8	NTU		EPA 180.1
Air Temp	3	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-24	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	130	mg/L	5	SM2320B
Chloride	12	mg/L	1	EPA 300.0
Hardness (as CaCO3)	160	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	19	mg/L	5	SM2540D
Solids, Total (TS)	170	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	290	mg/L	10	SM2540C
Sulfate	14	mg/L	1	EPA 300.0
Calcium (Total)	47	mg/L	0.2	EPA 200.7
Magnesium (Total)	9.6	mg/L	0.1	EPA 200.7
COD		mg/L	10	SM5220C
Nitrogen, Ammonia	0.17	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.6	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.068	mg/L	0.05	SM4500P-E
TKN		mg/L	0.4	SM4500N(Org)-D
TOC		mg/L	1	SM5310C
Lab ID # AB37917	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	114.5	MPN/100mL	1	SM9223B

	Weather Code Definitions								
SC			WD	WS	AT				
Sky Conditions		V	Vind Direction	Wind Strength	Air Temp				
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32				
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45				
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60				
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75				
5 - Mist			-	4 - Mod./Strong	5 - 76-85				
6 - Fog				5 - Strong	6 - > 86				
7 - Shower				6 - Gale					

SiteID: OML-0	5-0035	USGS Hydrologic	Jnit: 05090	2030502			
Stream Name:	Trib of Little Lau	ughery Cr	County	: Franklin			
Description:	Huntersville Rd		Latitud	e: 39 18	26.16139	Longitude:	-85 14 5.17977
Drainage:			Site Nu	mber: 19T-	022		
SiteID: OML-0	5-0035	Sample Date: 4/1/2	:019	IDEM S	Sample #:	AB37912	
Water Flow Type	e Riffle	Water Appea	arance Cle	ear	Water	Depth	Algae?
Water Flow (cf/s	ec):	Flow Estin	nated?	Aquatic L	ife? C	anopy Closed %	0-20%
Sampler Comme	ents:						

Lab ID #	<u>Result</u>		Reporting Limit	<u>Method</u>
% Sat	93.7	%		ASTM D888-09(C)
DO	12.41	mg/L		ASTM D888-09(C)
pH (Field)	7.92	SU		EPA 150.2
Specific Conductance (Field)	535	umho/cm		SM2510B
Temperature	3.55	°C		SM2550B(2)
Turbidity (Hach)	15.3	NTU		EPA 180.1
Air Temp	2	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-2	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	170	mg/L	5	SM2320B
Chloride	55	mg/L	2	EPA 300.0
Hardness (as CaCO3)	210	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	9	mg/L	5	SM2540D
Solids, Total (TS)	390	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	310	mg/L	10	SM2540C
Sulfate	20	mg/L	1	EPA 300.0
Calcium (Total)	61	mg/L	0.2	EPA 200.7
Magnesium (Total)	15	mg/L	0.1	EPA 200.7
COD	21	mg/L	10	SM5220C
Nitrogen, Ammonia	0.12	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.049	mg/L	0.05	SM4500P-E
TKN	0.52	mg/L	0.4	SM4500N(Org)-D
TOC	4.6	mg/L	1	SM5310C
Lab ID # AB37912	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	> 2419.6	MPN/100mL	2419.6	SM9223B
E. coli	920.8	MPN/100mL	1	SM9223B

Weather Code Definitions								
SC Sky Conditions		v	WD Vind Direction	WS Wind Strength	AT Air Temp			
 Clear Scattered Partly Cloudy Mist Fog Shower 	8 - Rain 9 - Snow 10 - Sleet	0 9 18 27	North (0 Degrees) East (90 Degrees) South (180 Degrees) West (270 Degrees)	0 - Calm 1 - Light 2 - Mod./Light 3 - Moderate 4 - Mod./Strong 5 - Strong 6 - Gale	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86			

SiteID: OML-05-0036	USGS Hydrologic Unit: 0	50902030504		
Stream Name: Trib of Ripley C		unty: Ripley		
Description: CR 950 N	Lat	titude: 39 12 34	.61357 Longitude:	-85 11 42.88160
Drainage:	Sit	e Number: 19T-023		
SiteID: OML-05-0036	Sample Date: 4/2/2019	IDEM Samp	ole #: AB37908	
Water Flow Type Run	Water Appearance	Clear	Water Depth	Algae?
Water Flow (cf/sec):	Flow Estimated?	Aquatic Life?	Canopy Closed %	0-20%
Sampler Comments:				
Lab ID #		<u>Result</u>	Reporting Limit	<u>Method</u>
% Sat		96.9 %		ASTM D888-09(C)
DO		12.22 mg/L		ASTM D888-09(C)
pH (Field)		8.02 SU		EPA 150.2
Specific Conductance (Field)		292 umho/cm		SM2510B
Temperature		5.43 °C		SM2550B(2)
Turbidity (Hach)		14.3 NTU		EPA 180.1
Air Temp		2 Lookup		Observation
Sky Conditions		1 Lookup		Observation
Wind Direction		0 Lookup		Observation
Wind Strength		1 Lookup		Observation
Lab ID # 500-161024-16		<u>Result</u>	Reporting Limit	Method

130	mg/L	5	SM2320B
5.6	mg/L	1	EPA 300.0
140	mg/L	1.3	SM2340B
9.5	mg/L	5	SM2540D
210	mg/L	10	SM2540B
220	mg/L	10	SM2540C
13	mg/L	1	EPA 300.0
40	mg/L	0.2	EPA 200.7
10	mg/L	0.1	EPA 200.7
11	mg/L	10	SM5220C
0.42	mg/L	0.2	SM4500NH3-G
0.59	mg/L	0.1	SM4500NO3-F
0.039	mg/L	0.05	SM4500P-E
0.38	mg/L	0.4	SM4500N(Org)-D
3.7	mg/L	1	SM5310C
<u>Result</u>		Reporting Limit	Method
1732.9	MPN/100mL	1	SM9223B
70.3	MPN/100mL	1	SM9223B
	5.6 140 9.5 210 220 13 40 10 11 0.42 0.59 0.039 0.38 3.7 <u>Result</u> 1732.9	130 mg/L 5.6 mg/L 140 mg/L 9.5 mg/L 210 mg/L 220 mg/L 13 mg/L 40 mg/L 10 mg/L 11 mg/L 0.42 mg/L 0.59 mg/L 0.38 mg/L 3.7 mg/L 3.7 mg/L 7.3 MPN/100mL 70.3 MPN/100mL	5.6 mg/L 1 140 mg/L 1.3 9.5 mg/L 5 210 mg/L 10 220 mg/L 10 220 mg/L 10 13 mg/L 1 40 mg/L 0.2 10 mg/L 0.1 11 mg/L 0.1 0.42 mg/L 0.2 0.59 mg/L 0.1 0.039 mg/L 0.05 0.38 mg/L 0.4 3.7 mg/L 1

Weather Code Definitions								
SC Sky Conditions		V	WD Vind Direction	WS Wind Strength	AT Air Temp			
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32			
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45			
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60			
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75			
5 - Mist			-	4 - Mod./Strong	5 - 76-85			
6 - Fog				5 - Strong	6 - > 86			
7 - Shower				6 - Gale				

SiteID: OML-0	5-0040	USGS Hydrologic L	nit: 0509	02030503	3					
Stream Name:	Trib of Ripley Cr		Count	t y: Riple	у					
Description:	N Spades Rd		Latitu	de: 39	12	11.37145	Longitude:	-85 7	55.62252	
Drainage:			Site N	umber:	19T-02	27				
SiteID: OML-0	95-0040 S	Sample Date: 4/2/2	019	ID	EM Sa	mple #: /	\B37913			
Water Flow Type	e Run	Water Appea	r ance C	Clear		Water	Depth		Algae?	
Water Flow (cf/s	sec):	Flow Estin	ated?	Aquat	ic Life	e? Ca	anopy Closed 9	% 0-20	%	
Sampler Comm	ents:									

Lab ID #	<u>Result</u>		Reporting Limit	Method
% Sat	97.3	%		ASTM D888-09(C)
DO	11.81	mg/L		ASTM D888-09(C)
pH (Field)	7.88	SU		EPA 150.2
Specific Conductance (Field)	326	umho/cm		SM2510B
Temperature	7	°C		SM2550B(2)
Turbidity (Hach)	23.1	NTU		EPA 180.1
Air Temp	3	Lookup		Observation
Sky Conditions	1	Lookup		Observation
Wind Direction	0	Lookup		Observation
Wind Strength	1	Lookup		Observation
Lab ID # 500-161024-20	<u>Result</u>		Reporting Limit	Method
Alkalinity (as CaCO3)	130	mg/L	5	SM2320B
Chloride	12	mg/L	1	EPA 300.0
Hardness (as CaCO3)	160	mg/L	1.3	SM2340B
Solids, Suspended Total, (TSS)	16	mg/L	5	SM2540D
Solids, Total (TS)	140	mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	300	mg/L	10	SM2540C
Sulfate	17	mg/L	1	EPA 300.0
Calcium (Total)	44	mg/L	0.2	EPA 200.7
Magnesium (Total)	12	mg/L	0.1	EPA 200.7
COD	13	mg/L	10	SM5220C
Nitrogen, Ammonia	0.14	mg/L	0.2	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.73	mg/L	0.1	SM4500NO3-F
Phosphorus, Total	0.052	mg/L	0.05	SM4500P-E
TKN	0.35	mg/L	0.4	SM4500N(Org)-D
TOC	4.1	mg/L	1	SM5310C
Lab ID # AB37913	<u>Result</u>		Reporting Limit	Method
Coliforms (Total)	2419.6	MPN/100mL	1	SM9223B
E. coli	172.2	MPN/100mL	1	SM9223B

		WD	TUC		
tions	W	Vind Direction	WS Wind Strength	AT Air Temp	
) 18	East (90 Degrees) South (180 Degrees)	1 - Light	1 - < 32 2 - 33-45 3 - 46-60 4 - 61-75 5 - 76-85 6 - > 86	
5	Snow 9 Sleet 1	Snow 9 Sleet 18	Snow9East (90 Degrees)Sleet18South (180 Degrees)	Show 9 East (90 Degrees) 1 - Light - Sleet 18 South (180 Degrees) 2 - Mod/Light 27 West (270 Degrees) 3 - Moderate 4 - Mod/Strong	