

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0130 **USGS Hydrologic Unit:** 051202020605
Stream Name: Black Creek **County:** Knox
Description: Unnamed Farm Lane **Latitude:** 38 49 27.98932 **Longitude:** -87 13 12.54905
Drainage: **Site Number:** 22T-001

SiteID: WWL-06-0130 **Sample Date:** 2/14/2022 **IDEM Sample #:** AB49690
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	91.1 %		ASTM D888-09(C)
DO	12.83 mg/L		ASTM D888-09(C)
pH (Field)	7.93 SU		EPA 150.2
Specific Conductance (Field)	656 umho/cm		SM2510B
Temperature	1.2 °C		SM2550B(2)
Turbidity (Hach)	26.5 NTU		EPA 180.1
Air Temp	1 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50309150001	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	145 mg/L	2	SM2320B
Chloride	15.2 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	306 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	57.8 mg/L	5	SM2540D
Solids, Total (TS)	466 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	413 mg/L	10	SM2540C
Sulfate	166 mg/L	2.5	EPA 300.0
Calcium (Total)	76000 ug/L	1000	EPA 200.7
Magnesium (Total)	28200 ug/L	1000	EPA 200.7
COD	15 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.4 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.075 mg/L	0.05	EPA 365.1
TKN	0.62 mg/L	0.5	EPA 351.2
TOC	3.8 mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0130

Sample Date: 3/7/2022

IDEM Sample #: AB50011

Water Flow Type **Glide**

Water Appearance **Brown**

Water Depth **Algae?**

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments: Turbidity was over range due to flooding.

Lab ID #:	Result	Reporting Limit	Method
% Sat	83.6 %		ASTM D888-09(C)
DO	9.56 mg/L		ASTM D888-09(C)
pH (Field)	7.93 SU		EPA 150.2
Specific Conductance (Field)	280.1 umho/cm		SM2510B
Temperature	9.5 °C		SM2550B(2)
Turbidity (Hach)	> 4000 NTU	4000	EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	5 Lookup		Observation

Lab ID #: 50310719001	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	59 mg/L	2	SM2320B
Chloride	7.6 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	173 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	1220 mg/L	100	SM2540D
Solids, Total (TS)	1390 mg/L	40	SM2540B
Solids, Total Dissolved (TDS)	221 mg/L	10	SM2540C
Sulfate	57.2 mg/L	2.5	EPA 300.0
Calcium (Total)	40100 ug/L	1000	EPA 200.7
Magnesium (Total)	17800 ug/L	1000	EPA 200.7
COD	80.1 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.18 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.68 mg/L	0.1	EPA 353.2
Phosphorus, Total	1.1 mg/L	0.1	EPA 365.1
TKN	2 mg/L	0.5	EPA 351.2
TOC	7.6 mg/L	1	SM5310C

**Indiana Department of Environmental Management
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Surface Water Results Summary**

SiteID: WWL-06-0130

Sample Date: 4/19/2022

IDEM Sample #: AB50829

Water Flow Type Glide

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	88.2 %		ASTM D888-09(C)
DO	9.87 mg/L		ASTM D888-09(C)
pH (Field)	7.93 SU		EPA 150.2
Specific Conductance (Field)	724 umho/cm		SM2510B
Temperature	10.4 °C		SM2550B(2)
Turbidity (Hach)	30.4 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50314541017	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	159 mg/L	2	SM2320B
Chloride	12.2 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	301 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	23.5 mg/L	4.1	SM2540D
Solids, Total (TS)	523 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	457 mg/L	10	SM2540C
Sulfate	208 mg/L	2.5	EPA 300.0
Calcium (Total)	72500 ug/L	1000	EPA 200.7
Magnesium (Total)	29100 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.93 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.7 mg/L	1	SM5310C

Lab ID #: AB50829	Result	Reporting Limit	Method
Coliforms (Total)	1732.9 MPN/100mL	1	SM9223B
E. coli	87.8 MPN/100mL	1	SM9223B

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

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0131 **USGS Hydrologic Unit:** 051202020605
Stream Name: Singer Ditch **County:** Knox
Description: Koening Road **Latitude:** 38 50 23.61478 **Longitude:** -87 12 55.68726
Drainage: **Site Number:** 22T-002

SiteID: WWL-06-0131 **Sample Date:** 4/20/2022 **IDEM Sample #:** AB50830
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	72.8 %		ASTM D888-09(C)
DO	7.97 mg/L		ASTM D888-09(C)
pH (Field)	7.47 SU		EPA 150.2
Specific Conductance (Field)	888 umho/cm		SM2510B
Temperature	11.2 °C		SM2550B(2)
Turbidity (Hach)	14.2 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50314541018	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	184 mg/L	2	SM2320B
Chloride	15.4 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	427 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	15.2 mg/L	2.5	SM2540D
Solids, Total (TS)	652 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	622 mg/L	10	SM2540C
Sulfate	273 mg/L	25	EPA 300.0
Calcium (Total)	100000 ug/L	1000	EPA 200.7
Magnesium (Total)	43000 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.89 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.056 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	2.8 mg/L	1	SM5310C

<u>Lab ID #:</u> AB50830	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	1986.3 MPN/100mL	1	SM9223B
E. coli	55.6 MPN/100mL	1	SM9223B

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Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
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Surface Water Results Summary**

SiteID: WWL-06-0151 **USGS Hydrologic Unit:** 051202020605
Stream Name: Hill Ditch **County:** Knox
Description: Grandview Drive **Latitude:** 38 53 47.56348 **Longitude:** -87 11 58.81215
Drainage: **Site Number:** 22T-003

SiteID: WWL-06-0151 **Sample Date:** 4/20/2022 **IDEM Sample #:** AB50833
Water Flow Type Riffle **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments: Ag tile drain goes into stream.

Lab ID #:	Result	Reporting Limit	Method
% Sat	88.2 %		ASTM D888-09(C)
DO	9.89 mg/L		ASTM D888-09(C)
pH (Field)	7.65 SU		EPA 150.2
Specific Conductance (Field)	564 umho/cm		SM2510B
Temperature	10.2 °C		SM2550B(2)
Turbidity (Hach)	9.54 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: 50314541020	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	165 mg/L	2	SM2320B
Chloride	28.3 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	265 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	5.3 mg/L	2.5	SM2540D
Solids, Total (TS)	395 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	377 mg/L	10	SM2540C
Sulfate	100 mg/L	2.5	EPA 300.0
Calcium (Total)	63200 ug/L	1000	EPA 200.7
Magnesium (Total)	26000 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	2.4 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3 mg/L	1	SM5310C

Lab ID #: AB50833	Result	Reporting Limit	Method
Coliforms (Total)	1986.3 MPN/100mL	1	SM9223B
E. coli	193.5 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
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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	

**Indiana Department of Environmental Management
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Surface Water Results Summary**

SiteID: WWL-06-0133 **USGS Hydrologic Unit:** 051202020605
Stream Name: Singer Ditch **County:** Knox
Description: County Line Road **Latitude:** 38 54 28.23476 **Longitude:** -87 13 31.66845
Drainage: **Site Number:** 22T-004

SiteID: WWL-06-0133 **Sample Date:** 4/20/2022 **IDEM Sample #:** AB50831
Water Flow Type Glide **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	103.7 %		ASTM D888-09(C)
DO	11.3 mg/L		ASTM D888-09(C)
pH (Field)	7.84 SU		EPA 150.2
Specific Conductance (Field)	1331 umho/cm		SM2510B
Temperature	11.3 °C		SM2550B(2)
Turbidity (Hach)	6.75 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

<u>Lab ID #:</u> 50314541019	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	141 mg/L	2	SM2320B
Chloride	3.9 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	679 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	6.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1090 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1060 mg/L	10	SM2540C
Sulfate	625 mg/L	25	EPA 300.0
Calcium (Total)	145000 ug/L	1000	EPA 200.7
Magnesium (Total)	77200 ug/L	1000	EPA 200.7
COD	11.5 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.12 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.9 mg/L	1	SM5310C

<u>Lab ID #:</u> AB50831	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	1299.7 MPN/100mL	1	SM9223B
E. coli	142.1 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
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Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
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Surface Water Results Summary**

SiteID: WWL-06-0134 **USGS Hydrologic Unit:** 051202020605
Stream Name: Black Creek **County:** Knox
Description: SR 58 **Latitude:** 38 52 38.70054 **Longitude:** -87 11 13.55031
Drainage: **Site Number:** 22T-005

SiteID: WWL-06-0134 **Sample Date:** 2/14/2022 **IDEM Sample #:** AB49691
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	91.2 %		ASTM D888-09(C)
DO	12.75 mg/L		ASTM D888-09(C)
pH (Field)	7.69 SU		EPA 150.2
Specific Conductance (Field)	649 umho/cm		SM2510B
Temperature	1.5 °C		SM2550B(2)
Turbidity (Hach)	14.7 NTU		EPA 180.1
Air Temp	1 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50309150002	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	141 mg/L	2	SM2320B
Chloride	13.9 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	296 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	10.4 mg/L	2.5	SM2540D
Solids, Total (TS)	453 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	416 mg/L	10	SM2540C
Sulfate	165 mg/L	2.5	EPA 300.0
Calcium (Total)	72900 ug/L	1000	EPA 200.7
Magnesium (Total)	27800 ug/L	1000	EPA 200.7
COD	16.2 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.5 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.052 mg/L	0.05	EPA 365.1
TKN	0.68 mg/L	0.5	EPA 351.2
TOC	3.9 mg/L	1	SM5310C

**Indiana Department of Environmental Management
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Surface Water Results Summary**

SiteID: WWL-06-0134 **Sample Date:** 3/7/2022 **IDEM Sample #:** AB50012
Water Flow Type Glide **Water Appearance** Brown **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments: Turbidity was over range due to flooding.

Lab ID #:	Result	Reporting Limit	Method
% Sat	87.4 %		ASTM D888-09(C)
DO	10.16 mg/L		ASTM D888-09(C)
pH (Field)	8.2 SU		EPA 150.2
Specific Conductance (Field)	196.4 umho/cm		SM2510B
Temperature	8.4 °C		SM2550B(2)
Turbidity (Hach)	> 4000 NTU	4000	EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	5 Lookup		Observation

Lab ID #: 50310719002	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	50.6 mg/L	2	SM2320B
Chloride	6.1 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	107 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	856 mg/L	100	SM2540D
Solids, Total (TS)	1100 mg/L	40	SM2540B
Solids, Total Dissolved (TDS)	175 mg/L	10	SM2540C
Sulfate	28.7 mg/L	2.5	EPA 300.0
Calcium (Total)	25300 ug/L	1000	EPA 200.7
Magnesium (Total)	10600 ug/L	1000	EPA 200.7
COD	80.6 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.16 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.55 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.84 mg/L	0.05	EPA 365.1
TKN	2 mg/L	0.5	EPA 351.2
TOC	7.2 mg/L	1	SM5310C

**Indiana Department of Environmental Management
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Surface Water Results Summary**

SiteID: WWL-06-0134

Sample Date: 4/20/2022

IDEM Sample #: AB50834

Water Flow Type Glide

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	85.7 %		ASTM D888-09(C)
DO	9.35 mg/L		ASTM D888-09(C)
pH (Field)	7.55 SU		EPA 150.2
Specific Conductance (Field)	669 umho/cm		SM2510B
Temperature	11.5 °C		SM2550B(2)
Turbidity (Hach)	29.4 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	4 Lookup		Observation

Lab ID #: 50314541021	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	137 mg/L	2	SM2320B
Chloride	1.1 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	268 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	43.2 mg/L	5	SM2540D
Solids, Total (TS)	520 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	447 mg/L	10	SM2540C
Sulfate	20.8 mg/L	0.25	EPA 300.0
Calcium (Total)	64100 ug/L	1000	EPA 200.7
Magnesium (Total)	26300 ug/L	1000	EPA 200.7
COD	11.8 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.78 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.1 mg/L	0.05	EPA 365.1
TKN	0.55 mg/L	0.5	EPA 351.2
TOC	4.6 mg/L	1	SM5310C

Lab ID #: AB50834	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	135.4 MPN/100mL	1	SM9223B

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

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0135 **USGS Hydrologic Unit:** 051202020604
Stream Name: Black Creek **County:** Knox
Description: Jericho Road **Latitude:** 38 53 43.77591 **Longitude:** -87 9 35.91845
Drainage: **Site Number:** 22T-006

SiteID: WWL-06-0135 **Sample Date:** 4/20/2022 **IDEM Sample #:** AB50835
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	90.6 %		ASTM D888-09(C)
DO	9.93 mg/L		ASTM D888-09(C)
pH (Field)	7.8 SU		EPA 150.2
Specific Conductance (Field)	677 umho/cm		SM2510B
Temperature	11.2 °C		SM2550B(2)
Turbidity (Hach)	37.5 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	4 Lookup		Observation

<u>Lab ID #:</u> 50314541022	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	132 mg/L	2	SM2320B
Chloride	10.5 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	290 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	41.8 mg/L	6.5	SM2540D
Solids, Total (TS)	530 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	454 mg/L	10	SM2540C
Sulfate	214 mg/L	2.5	EPA 300.0
Calcium (Total)	68500 ug/L	1000	EPA 200.7
Magnesium (Total)	28800 ug/L	1000	EPA 200.7
COD	17.2 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.68 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.093 mg/L	0.05	EPA 365.1
TKN	0.66 mg/L	0.5	EPA 351.2
TOC	4.8 mg/L	1	SM5310C

<u>Lab ID #:</u> AB50835	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	93.2 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0136 **USGS Hydrologic Unit:** 051202020604
Stream Name: Calico Slash Ditch **County:** Greene
Description: CR 700 South **Latitude:** 38 55 21.12267 **Longitude:** -87 9 39.94821
Drainage: **Site Number:** 22T-007

SiteID: WWL-06-0136 **Sample Date:** 4/20/2022 **IDEM Sample #:** AB50836
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	119.5 %		ASTM D888-09(C)
DO	13.45 mg/L		ASTM D888-09(C)
pH (Field)	7.68 SU		EPA 150.2
Specific Conductance (Field)	593 umho/cm		SM2510B
Temperature	10 °C		SM2550B(2)
Turbidity (Hach)	11.8 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	4 Lookup		Observation

Lab ID #: 50314541023	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	171 mg/L	2	SM2320B
Chloride	32.3 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	235 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	7.9 mg/L	2.5	SM2540D
Solids, Total (TS)	369 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	368 mg/L	10	SM2540C
Sulfate	63.6 mg/L	2.5	EPA 300.0
Calcium (Total)	56100 ug/L	1000	EPA 200.7
Magnesium (Total)	23100 ug/L	1000	EPA 200.7
COD	16.9 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	5 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.1 mg/L	1	SM5310C

Lab ID #: AB50836	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	71.2 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0137 **USGS Hydrologic Unit:** 051202020604
Stream Name: Black Creek **County:** Greene
Description: CR 1075 West **Latitude:** 38 55 10.33673 **Longitude:** -87 8 37.93967
Drainage: **Site Number:** 22T-008

SiteID: WWL-06-0137 **Sample Date:** 4/19/2022 **IDEM Sample #:** AB50822
Water Flow Type Glide **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	91.2 %		ASTM D888-09(C)
DO	10.66 mg/L		ASTM D888-09(C)
pH (Field)	7.81 SU		EPA 150.2
Specific Conductance (Field)	757 umho/cm		SM2510B
Temperature	8.5 °C		SM2550B(2)
Turbidity (Hach)	30.3 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50314541010	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	132 mg/L	2	SM2320B
Chloride	11.9 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	336 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	29 mg/L	5	SM2540D
Solids, Total (TS)	565 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	496 mg/L	10	SM2540C
Sulfate	253 mg/L	25	EPA 300.0
Calcium (Total)	81800 ug/L	1000	EPA 200.7
Magnesium (Total)	32100 ug/L	1000	EPA 200.7
COD	12 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.66 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.056 mg/L	0.05	EPA 365.1
TKN	0.81 mg/L	0.5	EPA 351.2
TOC	4.5 mg/L	1	SM5310C

<u>Lab ID #:</u> AB50822	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	298.7 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0138 **USGS Hydrologic Unit:** 051202020604
Stream Name: Black Creek **County:** Greene
Description: CR 610 South **Latitude:** 38 56 10.74221 **Longitude:** -87 8 18.75923
Drainage: **Site Number:** 22T-009

SiteID: WWL-06-0138 **Sample Date:** 4/19/2022 **IDEM Sample #:** AB50823
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	88.8 %		ASTM D888-09(C)
DO	10.31 mg/L		ASTM D888-09(C)
pH (Field)	7.67 SU		EPA 150.2
Specific Conductance (Field)	777 umho/cm		SM2510B
Temperature	8.6 °C		SM2550B(2)
Turbidity (Hach)	27.4 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50314541011	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	128 mg/L	2	SM2320B
Chloride	11.5 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	345 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	25.2 mg/L	5	SM2540D
Solids, Total (TS)	567 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	504 mg/L	10	SM2540C
Sulfate	263 mg/L	25	EPA 300.0
Calcium (Total)	82700 ug/L	1000	EPA 200.7
Magnesium (Total)	33700 ug/L	1000	EPA 200.7
COD	12.1 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.51 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.09 mg/L	0.05	EPA 365.1
TKN	0.65 mg/L	0.5	EPA 351.2
TOC	4.7 mg/L	1	SM5310C

<u>Lab ID #:</u> AB50823	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	1986.3 MPN/100mL	1	SM9223B
E. coli	344.8 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0152 **USGS Hydrologic Unit:** 051202020602
Stream Name: Beehunter Ditch **County:** Greene
Description: CR 200 South **Latitude:** 38 59 40.50644 **Longitude:** -87 7 25.42912
Drainage: **Site Number:** 22T-010

SiteID: WWL-06-0152 **Sample Date:** 2/14/2022 **IDEM Sample #:** AB49695
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	96.1 %		ASTM D888-09(C)
DO	13.72 mg/L		ASTM D888-09(C)
pH (Field)	7.8 SU		EPA 150.2
Specific Conductance (Field)	560 umho/cm		SM2510B
Temperature	0.8 °C		SM2550B(2)
Turbidity (Hach)	16.8 NTU		EPA 180.1
Air Temp	1 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50309150006	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	143 mg/L	2	SM2320B
Chloride	21 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	229 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	31.5 mg/L	2.5	SM2540D
Solids, Total (TS)	383 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	334 mg/L	10	SM2540C
Sulfate	92.7 mg/L	2.5	EPA 300.0
Calcium (Total)	55700 ug/L	1000	EPA 200.7
Magnesium (Total)	21800 ug/L	1000	EPA 200.7
COD	19 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.8 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.14 mg/L	0.05	EPA 365.1
TKN	0.61 mg/L	0.5	EPA 351.2
TOC	4 mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0152 Sample Date: 3/7/2022 IDEM Sample #: AB50016
 Water Flow Type Glide Water Appearance Brown Water Depth Algae?
 Water Flow (cf/sec): Flow Estimated? Aquatic Life? Canopy Closed % 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	81.2 %		ASTM D888-09(C)
DO	9.6 mg/L		ASTM D888-09(C)
pH (Field)	7.38 SU		EPA 150.2
Specific Conductance (Field)	138.5 umho/cm		SM2510B
Temperature	8.1 °C		SM2550B(2)
Turbidity (Hach)	339 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	5 Lookup		Observation

Lab ID #: 50310719006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	43.1 mg/L	2	SM2320B
Chloride	5.5 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	61.8 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	234 mg/L	25	SM2540D
Solids, Total (TS)	332 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	140 mg/L	10	SM2540C
Sulfate	14.2 mg/L	0.25	EPA 300.0
Calcium (Total)	16200 ug/L	1000	EPA 200.7
Magnesium (Total)	5190 ug/L	1000	EPA 200.7
COD	47 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.36 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.19 mg/L	0.05	EPA 365.1
TKN	1.4 mg/L	0.5	EPA 351.2
TOC	7.5 mg/L	2	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0152

Sample Date: 4/19/2022

IDEM Sample #: AB50824

Water Flow Type Glide

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	96.1 %		ASTM D888-09(C)
DO	11.36 mg/L		ASTM D888-09(C)
pH (Field)	7.91 SU		EPA 150.2
Specific Conductance (Field)	546 umho/cm		SM2510B
Temperature	8.1 °C		SM2550B(2)
Turbidity (Hach)	15.3 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50314541012	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	157 mg/L	2	SM2320B
Chloride	17.5 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	240 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	12.6 mg/L	2.5	SM2540D
Solids, Total (TS)	352 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	321 mg/L	10	SM2540C
Sulfate	103 mg/L	2.5	EPA 300.0
Calcium (Total)	56700 ug/L	1000	EPA 200.7
Magnesium (Total)	23900 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.1 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	4.5 mg/L	1	SM5310C

Lab ID #: AB50824	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	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 - Calm	1 - < 32
2 - Scattered	9 - Snow	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	2 - Mod./Light	3 - 46-60
4 - Cloudy		3 - Moderate	4 - 61-75
5 - Mist		4 - Mod./Strong	5 - 76-85
6 - Fog		5 - Strong	6 - > 86
7 - Shower		6 - Gale	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0140 **USGS Hydrologic Unit:** 051202020602
Stream Name: Beehunter Ditch **County:** Greene
Description: CR 100 South **Latitude:** 39 0 32.78467 **Longitude:** -87 7 32.24568
Drainage: **Site Number:** 22T-011

SiteID: WWL-06-0140 **Sample Date:** 4/19/2022 **IDEM Sample #:** AB50825
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments: Cloudy substance from upstream pipe.

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	92.9 %		ASTM D888-09(C)
DO	10.64 mg/L		ASTM D888-09(C)
pH (Field)	7.86 SU		EPA 150.2
Specific Conductance (Field)	428.7 umho/cm		SM2510B
Temperature	9.3 °C		SM2550B(2)
Turbidity (Hach)	9.94 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50314541013	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	144 mg/L	2	SM2320B
Chloride	27.3 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	184 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	8.3 mg/L	2.5	SM2540D
Solids, Total (TS)	281 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	253 mg/L	10	SM2540C
Sulfate	46.6 mg/L	2.5	EPA 300.0
Calcium (Total)	47700 ug/L	1000	EPA 200.7
Magnesium (Total)	15800 ug/L	1000	EPA 200.7
COD	11.6 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.8 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.21 mg/L	0.05	EPA 365.1
TKN	0.64 mg/L	0.5	EPA 351.2
TOC	4.9 mg/L	1	SM5310C

<u>Lab ID #:</u> AB50825	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	648.8 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0141 **USGS Hydrologic Unit:** 051202020602
Stream Name: Tributary of Beehunter Ditch **County:** Greene
Description: SR 54 **Latitude:** 39 2 13.44707 **Longitude:** -87 9 8.02919
Drainage: **Site Number:** 22T-012

SiteID: WWL-06-0141 **Sample Date:** 4/19/2022 **IDEM Sample #:** AB50828
Water Flow Type Riffle **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	120.6 %		ASTM D888-09(C)
DO	13.61 mg/L		ASTM D888-09(C)
pH (Field)	7.97 SU		EPA 150.2
Specific Conductance (Field)	467.2 umho/cm		SM2510B
Temperature	10 °C		SM2550B(2)
Turbidity (Hach)	6.66 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50314541016	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	156 mg/L	2	SM2320B
Chloride	9 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	219 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	5.3 mg/L	2.5	SM2540D
Solids, Total (TS)	299 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	273 mg/L	10	SM2540C
Sulfate	74.3 mg/L	2.5	EPA 300.0
Calcium (Total)	52500 ug/L	1000	EPA 200.7
Magnesium (Total)	21400 ug/L	1000	EPA 200.7
COD	12 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.32 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	4.1 mg/L	1	SM5310C

Lab ID #: AB50828	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	613.1 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0142 **USGS Hydrologic Unit:** 051202020602
Stream Name: Buck Creek **County:** Greene
Description: CR 100 South **Latitude:** 39 0 32.98409 **Longitude:** -87 6 32.83181
Drainage: **Site Number:** 22T-013

SiteID: WWL-06-0142 **Sample Date:** 4/19/2022 **IDEM Sample #:** AB50826
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	107.8 %		ASTM D888-09(C)
DO	12.41 mg/L		ASTM D888-09(C)
pH (Field)	7.82 SU		EPA 150.2
Specific Conductance (Field)	660 umho/cm		SM2510B
Temperature	9 °C		SM2550B(2)
Turbidity (Hach)	10.6 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50314541014	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	184 mg/L	2	SM2320B
Chloride	11.1 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	299 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	7.8 mg/L	2.5	SM2540D
Solids, Total (TS)	441 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	387 mg/L	10	SM2540C
Sulfate	154 mg/L	2.5	EPA 300.0
Calcium (Total)	62100 ug/L	1000	EPA 200.7
Magnesium (Total)	34900 ug/L	1000	EPA 200.7
COD	11.4 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.75 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.4 mg/L	1	SM5310C

<u>Lab ID #:</u> AB50826	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	231 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0143 **USGS Hydrologic Unit:** 051202020602
Stream Name: Buck Creek **County:** Greene
Description: Buck Creek Road **Latitude:** 39 2 19.34668 **Longitude:** -87 6 33.02346
Drainage: **Site Number:** 22T-014

SiteID: WWL-06-0143 **Sample Date:** 4/19/2022 **IDEM Sample #:** AB50827
Water Flow Type Glide **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	118 %		ASTM D888-09(C)
DO	13.58 mg/L		ASTM D888-09(C)
pH (Field)	8.18 SU		EPA 150.2
Specific Conductance (Field)	622 umho/cm		SM2510B
Temperature	9.1 °C		SM2550B(2)
Turbidity (Hach)	9.39 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

<u>Lab ID #:</u> 50314541015	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	176 mg/L	2	SM2320B
Chloride	8.7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	304 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	4 mg/L	2.5	SM2540D
Solids, Total (TS)	417 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	368 mg/L	10	SM2540C
Sulfate	146 mg/L	2.5	EPA 300.0
Calcium (Total)	59300 ug/L	1000	EPA 200.7
Magnesium (Total)	37800 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.62 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.2 mg/L	1	SM5310C

<u>Lab ID #:</u> AB50827	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	1986.3 MPN/100mL	1	SM9223B
E. coli	109.5 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL060-0001 **USGS Hydrologic Unit:** 051202020603
Stream Name: Black Creek Ditch **County:** Greene
Description: CR 1100 West **Latitude:** 38 57 43.41582 **Longitude:** -87 8 55.01252
Drainage: 56.01 **Site Number:** 22T-015

SiteID: WWL060-0001 **Sample Date:** 2/14/2022 **IDEM Sample #:** AB49692
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	86.6 %		ASTM D888-09(C)
DO	12.6 mg/L		ASTM D888-09(C)
pH (Field)	7.89 SU		EPA 150.2
Specific Conductance (Field)	914 umho/cm		SM2510B
Temperature	0.6 °C		SM2550B(2)
Turbidity (Hach)	10.4 NTU		EPA 180.1
Air Temp	1 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50309150003	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	130 mg/L	2	SM2320B
Chloride	11.9 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	414 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	9 mg/L	2.5	SM2540D
Solids, Total (TS)	684 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	619 mg/L	10	SM2540C
Sulfate	319 mg/L	25	EPA 300.0
Calcium (Total)	95000 ug/L	1000	EPA 200.7
Magnesium (Total)	42800 ug/L	1000	EPA 200.7
COD	25.8 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.93 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.097 mg/L	0.05	EPA 365.1
TKN	0.79 mg/L	0.5	EPA 351.2
TOC	4.2 mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL060-0001

Sample Date: 3/7/2022

IDEM Sample #: AB50013

Water Flow Type Glide

Water Appearance Brown

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	83 %		ASTM D888-09(C)
DO	9.61 mg/L		ASTM D888-09(C)
pH (Field)	7.3 SU		EPA 150.2
Specific Conductance (Field)	405.5 umho/cm		SM2510B
Temperature	8.9 °C		SM2550B(2)
Turbidity (Hach)	383 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	5 Lookup		Observation

Lab ID #: 50310719003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	48.8 mg/L	2	SM2320B
Chloride	5.7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	152 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	218 mg/L	50	SM2540D
Solids, Total (TS)	510 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	270 mg/L	10	SM2540C
Sulfate	131 mg/L	2.5	EPA 300.0
Calcium (Total)	36500 ug/L	1000	EPA 200.7
Magnesium (Total)	14800 ug/L	1000	EPA 200.7
COD	30.9 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.36 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.34 mg/L	0.05	EPA 365.1
TKN	1.4 mg/L	0.5	EPA 351.2
TOC	6.5 mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL060-0001 **Sample Date:** 4/19/2022 **IDEM Sample #:** AB50842
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	89.1 %		ASTM D888-09(C)
DO	10.75 mg/L		ASTM D888-09(C)
pH (Field)	7.79 SU		EPA 150.2
Specific Conductance (Field)	855 umho/cm		SM2510B
Temperature	7.4 °C		SM2550B(2)
Turbidity (Hach)	25.8 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50314541008	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	115 mg/L	2	SM2320B
Chloride	8.5 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	382 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	25.6 mg/L	5	SM2540D
Solids, Total (TS)	665 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	585 mg/L	10	SM2540C
Sulfate	330 mg/L	25	EPA 300.0
Calcium (Total)	91200 ug/L	1000	EPA 200.7
Magnesium (Total)	37400 ug/L	1000	EPA 200.7
COD	14.5 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.34 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.078 mg/L	0.05	EPA 365.1
TKN	0.68 mg/L	0.5	EPA 351.2
TOC	4.5 mg/L	1	SM5310C

Lab ID #: AB50842	Result	Reporting Limit	Method
Coliforms (Total)	1553.1 MPN/100mL	1	SM9223B
E. coli	59.4 MPN/100mL	1	SM9223B

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

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0144 **USGS Hydrologic Unit:** 051202020603
Stream Name: Brewer Ditch **County:** Greene
Description: CR 1200 West **Latitude:** 38 57 35.38008 **Longitude:** -87 10 2.88337
Drainage: **Site Number:** 22T-016

SiteID: WWL-06-0144 **Sample Date:** 2/14/2022 **IDEM Sample #:** AB49693
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments: Cloudy discharge/substances seen upstream. May impact duplicate readings. Discharge pipe upstream.

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	105.5 %		ASTM D888-09(C)
DO	14.8 mg/L		ASTM D888-09(C)
pH (Field)	8.13 SU		EPA 150.2
Specific Conductance (Field)	1285 umho/cm		SM2510B
Temperature	1.3 °C		SM2550B(2)
Turbidity (Hach)	8.2 NTU		EPA 180.1
Air Temp	1 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50309150004	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	163 mg/L	2	SM2320B
Chloride	13 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	556 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	7.7 mg/L	2.5	SM2540D
Solids, Total (TS)	1010 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	974 mg/L	20	SM2540C
Sulfate	491 mg/L	25	EPA 300.0
Calcium (Total)	124000 ug/L	1000	EPA 200.7
Magnesium (Total)	60000 ug/L	1000	EPA 200.7
COD	20.1 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.17 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.8 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.057 mg/L	0.05	EPA 365.1
TKN	0.9 mg/L	0.5	EPA 351.2
TOC	3.8 mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0144 Sample Date: 3/7/2022 IDEM Sample #: AB50014
 Water Flow Type Glide Water Appearance Brown Water Depth Algae?
 Water Flow (cf/sec): Flow Estimated? Aquatic Life? Canopy Closed % 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	85.5 %		ASTM D888-09(C)
DO	9.97 mg/L		ASTM D888-09(C)
pH (Field)	7.52 SU		EPA 150.2
Specific Conductance (Field)	760 umho/cm		SM2510B
Temperature	8.6 °C		SM2550B(2)
Turbidity (Hach)	146 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	5 Lookup		Observation

Lab ID #: 50310719004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	98.2 mg/L	2	SM2320B
Chloride	8.3 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	279 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	99.5 mg/L	12.5	SM2540D
Solids, Total (TS)	637 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	510 mg/L	10	SM2540C
Sulfate	240 mg/L	25	EPA 300.0
Calcium (Total)	62100 ug/L	1000	EPA 200.7
Magnesium (Total)	30200 ug/L	1000	EPA 200.7
COD	24.7 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.13 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.95 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.18 mg/L	0.05	EPA 365.1
TKN	1.1 mg/L	0.5	EPA 351.2
TOC	5.4 mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0144

Sample Date: 4/19/2022

IDEM Sample #: AB50841

Water Flow Type Glide

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	88 %		ASTM D888-09(C)
DO	10.53 mg/L		ASTM D888-09(C)
pH (Field)	7.77 SU		EPA 150.2
Specific Conductance (Field)	1363 umho/cm		SM2510B
Temperature	7.4 °C		SM2550B(2)
Turbidity (Hach)	15.8 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: 50314541007	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	176 mg/L	2	SM2320B
Chloride	12.1 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	576 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	16.2 mg/L	2.5	SM2540D
Solids, Total (TS)	1110 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1020 mg/L	20	SM2540C
Sulfate	608 mg/L	25	EPA 300.0
Calcium (Total)	131000 ug/L	1000	EPA 200.7
Magnesium (Total)	60300 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.2 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.06 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.7 mg/L	1	SM5310C

Lab ID #: AB50841	Result	Reporting Limit	Method
Coliforms (Total)	1119.9 MPN/100mL	1	SM9223B
E. coli	179.3 MPN/100mL	1	SM9223B

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

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0145 **USGS Hydrologic Unit:** 051202020603
Stream Name: Tributary of Brewer Ditch **County:** Greene
Description: CR 1525 West **Latitude:** 38 59 2.23969 **Longitude:** -87 13 47.48311
Drainage: **Site Number:** 22T-017

SiteID: WWL-06-0145 **Sample Date:** 4/18/2022 **IDEM Sample #:** AB50838
Water Flow Type Glide **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	107.5 %		ASTM D888-09(C)
DO	11.53 mg/L		ASTM D888-09(C)
pH (Field)	7.75 SU		EPA 150.2
Specific Conductance (Field)	1909 umho/cm		SM2510B
Temperature	11.9 °C		SM2550B(2)
Turbidity (Hach)	2.59 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50314541004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	158 mg/L	2	SM2320B
Chloride	2.5 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1210 mg/L	5	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1780 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1670 mg/L	20	SM2540C
Sulfate	1070 mg/L	25	EPA 300.0
Calcium (Total)	280000 ug/L	5000	EPA 200.7
Magnesium (Total)	124000 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	2.2 mg/L	1	SM5310C

Lab ID #: AB50838	Result	Reporting Limit	Method
Coliforms (Total)	686.7 MPN/100mL	1	SM9223B
E. coli	20.3 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0121 **USGS Hydrologic Unit:** 051202020603
Stream Name: Spencer Creek **County:** Sullivan
Description: SR 159 **Latitude:** 38 58 37.45717 **Longitude:** -87 15 36.36725
Drainage: **Site Number:** 22T-018

SiteID: WWL-06-0121 **Sample Date:** 4/18/2022 **IDEM Sample #:** AB50839
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	104.1 %		ASTM D888-09(C)
DO	11.24 mg/L		ASTM D888-09(C)
pH (Field)	7.76 SU		EPA 150.2
Specific Conductance (Field)	1507 umho/cm		SM2510B
Temperature	11.7 °C		SM2550B(2)
Turbidity (Hach)	7.71 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: 50314541005	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	203 mg/L	2	SM2320B
Chloride	16.8 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	391 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	5.9 mg/L	2.5	SM2540D
Solids, Total (TS)	1100 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1040 mg/L	20	SM2540C
Sulfate	583 mg/L	25	EPA 300.0
Calcium (Total)	88500 ug/L	1000	EPA 200.7
Magnesium (Total)	41300 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.2 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.4 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.57 mg/L	0.5	EPA 351.2
TOC	2.8 mg/L	1	SM5310C

Lab ID #: AB50839	Result	Reporting Limit	Method
Coliforms (Total)	435.2 MPN/100mL	1	SM9223B
E. coli	125.9 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0146 **USGS Hydrologic Unit:** 051202020601
Stream Name: Black Creek **County:** Greene
Description: CR 1200 West **Latitude:** 38 59 18.73809 **Longitude:** -87 10 3.01393
Drainage: **Site Number:** 22T-019

SiteID: WWL-06-0146 **Sample Date:** 2/14/2022 **IDEM Sample #:** AB49694
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	105 %		ASTM D888-09(C)
DO	14.43 mg/L		ASTM D888-09(C)
pH (Field)	7.85 SU		EPA 150.2
Specific Conductance (Field)	869 umho/cm		SM2510B
Temperature	2.1 °C		SM2550B(2)
Turbidity (Hach)	12.7 NTU		EPA 180.1
Air Temp	1 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50309150005	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	130 mg/L	2	SM2320B
Chloride	10.9 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	418 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	19.9 mg/L	2.5	SM2540D
Solids, Total (TS)	690 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	610 mg/L	10	SM2540C
Sulfate	300 mg/L	25	EPA 300.0
Calcium (Total)	96700 ug/L	1000	EPA 200.7
Magnesium (Total)	42900 ug/L	1000	EPA 200.7
COD	18.2 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.39 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.72 mg/L	0.5	EPA 351.2
TOC	3.7 mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0146 Sample Date: 3/7/2022 IDEM Sample #: AB50015
 Water Flow Type Glide Water Appearance Brown Water Depth Algae?
 Water Flow (cf/sec): Flow Estimated? Aquatic Life? Canopy Closed % 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	84 %		ASTM D888-09(C)
DO	9.86 mg/L		ASTM D888-09(C)
pH (Field)	7.34 SU		EPA 150.2
Specific Conductance (Field)	323.2 umho/cm		SM2510B
Temperature	8.2 °C		SM2550B(2)
Turbidity (Hach)	207 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	5 Lookup		Observation

Lab ID #: 50310719005	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	52.7 mg/L	2	SM2320B
Chloride	5.8 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	136 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	175 mg/L	25	SM2540D
Solids, Total (TS)	352 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	228 mg/L	10	SM2540C
Sulfate	98.7 mg/L	2.5	EPA 300.0
Calcium (Total)	32700 ug/L	1000	EPA 200.7
Magnesium (Total)	13200 ug/L	1000	EPA 200.7
COD	28.9 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.3 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	1.1 mg/L	0.5	EPA 351.2
TOC	6.8 mg/L	1	SM5310C

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0146 **Sample Date:** 4/18/2022 **IDEM Sample #:** AB50840
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	89.2 %		ASTM D888-09(C)
DO	9.68 mg/L		ASTM D888-09(C)
pH (Field)	7.52 SU		EPA 150.2
Specific Conductance (Field)	951 umho/cm		SM2510B
Temperature	11.4 °C		SM2550B(2)
Turbidity (Hach)	17.3 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50314541006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	116 mg/L	2	SM2320B
Chloride	7.3 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	476 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	15.1 mg/L	3.4	SM2540D
Solids, Total (TS)	742 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	673 mg/L	10	SM2540C
Sulfate	400 mg/L	25	EPA 300.0
Calcium (Total)	115000 ug/L	1000	EPA 200.7
Magnesium (Total)	45700 ug/L	1000	EPA 200.7
COD	11.9 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.15 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.7 mg/L	1	SM5310C

Lab ID #: AB50840	Result	Reporting Limit	Method
Coliforms (Total)	1986.3 MPN/100mL	1	SM9223B
E. coli	137.6 MPN/100mL	1	SM9223B

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

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0147 **USGS Hydrologic Unit:** 051202020601
Stream Name: Tributary of Black Creek **County:** Greene
Description: CR 300 South **Latitude:** 38 58 55.08817 **Longitude:** -87 9 18.23245
Drainage: **Site Number:** 22T-020

SiteID: WWL-06-0147 **Sample Date:** 4/19/2022 **IDEM Sample #:** AB50843
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments: Clay deposits turn water red

Lab ID #:	Result	Reporting Limit	Method
% Sat	93.7 %		ASTM D888-09(C)
DO	11.21 mg/L		ASTM D888-09(C)
pH (Field)	7.27 SU		EPA 150.2
Specific Conductance (Field)	663 umho/cm		SM2510B
Temperature	7.6 °C		SM2550B(2)
Turbidity (Hach)	32.9 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50314541009	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	66 mg/L	2	SM2320B
Chloride	8.9 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	283 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	23.8 mg/L	5	SM2540D
Solids, Total (TS)	475 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	416 mg/L	10	SM2540C
Sulfate	257 mg/L	25	EPA 300.0
Calcium (Total)	58600 ug/L	1000	EPA 200.7
Magnesium (Total)	33100 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.18 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	2.2 mg/L	1	SM5310C

Lab ID #: AB50843	Result	Reporting Limit	Method
Coliforms (Total)	387.3 MPN/100mL	1	SM9223B
E. coli	21.6 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0148 **USGS Hydrologic Unit:** 051202020601
Stream Name: Black Creek **County:** Greene
Description: CR 1400 West **Latitude:** 39 0 36.20313 **Longitude:** -87 12 14.29766
Drainage: **Site Number:** 22T-021

SiteID: WWL-06-0148 **Sample Date:** 4/18/2022 **IDEM Sample #:** AB50837
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	96.4 %		ASTM D888-09(C)
DO	10.68 mg/L		ASTM D888-09(C)
pH (Field)	7.35 SU		EPA 150.2
Specific Conductance (Field)	1032 umho/cm		SM2510B
Temperature	10.5 °C		SM2550B(2)
Turbidity (Hach)	9.77 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50314541003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	94.1 mg/L	2	SM2320B
Chloride	6.6 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	529 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	8.7 mg/L	2.5	SM2540D
Solids, Total (TS)	848 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	820 mg/L	10	SM2540C
Sulfate	449 mg/L	25	EPA 300.0
Calcium (Total)	130000 ug/L	1000	EPA 200.7
Magnesium (Total)	50000 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.22 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.2 mg/L	1	SM5310C

Lab ID #: AB50837	Result	Reporting Limit	Method
Coliforms (Total)	755.6 MPN/100mL	1	SM9223B
E. coli	206.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0149 **USGS Hydrologic Unit:** 051202020601
Stream Name: Tributary of Black Creek **County:** Greene
Description: CR 1500 West **Latitude:** 39 1 23.72131 **Longitude:** -87 13 20.86512
Drainage: **Site Number:** 22T-022

SiteID: WWL-06-0149 **Sample Date:** 4/18/2022 **IDEM Sample #:** AB50821
Water Flow Type Glide **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	92.6 %		ASTM D888-09(C)
DO	10.43 mg/L		ASTM D888-09(C)
pH (Field)	7.12 SU		EPA 150.2
Specific Conductance (Field)	1196 umho/cm		SM2510B
Temperature	9.9 °C		SM2550B(2)
Turbidity (Hach)	7.11 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> 50314541001	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	117 mg/L	2	SM2320B
Chloride	4.6 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	667 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	5.3 mg/L	2.5	SM2540D
Solids, Total (TS)	996 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	955 mg/L	10	SM2540C
Sulfate	563 mg/L	25	EPA 300.0
Calcium (Total)	149000 ug/L	1000	EPA 200.7
Magnesium (Total)	71500 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.2 mg/L	1	SM5310C

<u>Lab ID #:</u> AB50821	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	> 2419.6 MPN/100mL	2419.6	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: WWL-06-0150 **USGS Hydrologic Unit:** 051202020601
Stream Name: Black Creek **County:** Greene
Description: CR 50 North **Latitude:** 39 1 51.37060 **Longitude:** -87 12 46.30295
Drainage: **Site Number:** 22T-023

SiteID: WWL-06-0150 **Sample Date:** 4/18/2022 **IDEM Sample #:** AB50832
Water Flow Type Riffle **Water Appearance** Brown **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	91.5 %		ASTM D888-09(C)
DO	10.33 mg/L		ASTM D888-09(C)
pH (Field)	6.98 SU		EPA 150.2
Specific Conductance (Field)	1036 umho/cm		SM2510B
Temperature	9.9 °C		SM2550B(2)
Turbidity (Hach)	17.7 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	4 Lookup		Observation

<u>Lab ID #:</u> 50314541002	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Alkalinity (as CaCO3)	59.5 mg/L	2	SM2320B
Chloride	7.4 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	529 mg/L	1	SM2340B
Solids, Suspended Total, (TSS)	15.6 mg/L	5	SM2540D
Solids, Total (TS)	847 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	807 mg/L	10	SM2540C
Sulfate	486 mg/L	25	EPA 300.0
Calcium (Total)	142000 ug/L	1000	EPA 200.7
Magnesium (Total)	42400 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.19 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.13 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	2.4 mg/L	1	SM5310C

<u>Lab ID #:</u> AB50832	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	112.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

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	