

**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:** 132.32      **Site Number:** 22T-001

**SiteID:** WWL-06-0130      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52402  
**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	70.5 %		ASTM D888-09(C)
DO	6.18 mg/L		ASTM D888-09(C)
pH (Field)	7.59 SU		EPA 150.2
Specific Conductance (Field)	751 umho/cm		SM2510B
Temperature	21.7 °C		SM2550B(2)
Turbidity (Hach)	23.7 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: AB52402	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	290.9 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0130      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52542  
**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	74.2 %		ASTM D888-09(C)
DO	6.22 mg/L		ASTM D888-09(C)
pH (Field)	7.51 SU		EPA 150.2
Specific Conductance (Field)	848 umho/cm		SM2510B
Temperature	24.2 °C		SM2550B(2)
Turbidity (Hach)	21.1 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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Lab ID #: AB52542	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	290.9 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0130      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB51378  
**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 #:	Result	Reporting Limit	Method
% Sat	79.2 %		ASTM D888-09(C)
DO	7.22 mg/L		ASTM D888-09(C)
pH (Field)	7.76 SU		EPA 150.2
Specific Conductance (Field)	875 umho/cm		SM2510B
Temperature	19.7 °C		SM2550B(2)
Turbidity (Hach)	12.63 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

**SiteID:** WWL-06-0130      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52572  
**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	79.1 %		ASTM D888-09(C)
DO	7.2 mg/L		ASTM D888-09(C)
pH (Field)	7.84 SU		EPA 150.2
Specific Conductance (Field)	874 umho/cm		SM2510B
Temperature	19.9 °C		SM2550B(2)
Turbidity (Hach)	10.6 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52572	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	307.6 MPN/100mL	1	SM9223B

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SiteID: WWL-06-0130      Sample Date: 8/24/2022      IDEM Sample #: AB52612  
 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	78.2 %		ASTM D888-09(C)
DO	7.15 mg/L		ASTM D888-09(C)
pH (Field)	7.88 SU		EPA 150.2
Specific Conductance (Field)	861 umho/cm		SM2510B
Temperature	19.6 °C		SM2550B(2)
Turbidity (Hach)	37.2 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50324319017	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	202 mg/L	10	SM2320B
Chloride	15.5 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	417 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	16.3 mg/L	2.5	SM2540D
Solids, Total (TS)	622 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	561 mg/L	10	SM2540C
Sulfate	237 mg/L	2.5	EPA 300.0
Calcium (Total)	99400 ug/L	1000	EPA 200.7
Magnesium (Total)	41100 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	0.098 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 #: AB52612	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	547.5 MPN/100mL	1	SM9223B

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SiteID: WWL-06-0130      Sample Date: 9/21/2022      IDEM Sample #: AB52870  
 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	75.8 %		ASTM D888-09(C)
DO	6.55 mg/L		ASTM D888-09(C)
pH (Field)	7.75 SU		EPA 150.2
Specific Conductance (Field)	844 umho/cm		SM2510B
Temperature	22.5 °C		SM2550B(2)
Turbidity (Hach)	15 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50326553017	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	202 mg/L	10	SM2320B
Chloride	15.8 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	428 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	15.1 mg/L	3.1	SM2540D
Solids, Total (TS)	614 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	574 mg/L	10	SM2540C
Sulfate	229 mg/L	25	EPA 300.0
Calcium (Total)	103000 ug/L	1000	EPA 200.7
Magnesium (Total)	41700 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	0.11 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	2.7 mg/L	1	SM5310C

Lab ID #: AB52870	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	186 MPN/100mL	1	SM9223B

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**SiteID:** WWL-06-0130      **Sample Date:** 10/19/2022      **IDEM Sample #:** AB53164  
**Water Flow Type** Run      **Water Appearance** Murky      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	83.6 %		ASTM D888-09(C)
DO	10.13 mg/L		ASTM D888-09(C)
pH (Field)	7.83 SU		EPA 150.2
Specific Conductance (Field)	853 umho/cm		SM2510B
Temperature	7 °C		SM2550B(2)
Turbidity (Hach)	53.5 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #:</b> 50328901009	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	232 mg/L	10	SM2320B
Chloride	19.2 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	439 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	11.1 mg/L	2.5	SM2540D
Solids, Total (TS)	592 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	564 mg/L	10	SM2540C
Sulfate	222 mg/L	2.5	EPA 300.0
Calcium (Total)	106000 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	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.3 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

<b>Lab ID #:</b> AB53164	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	1986.3 MPN/100mL	1	SM9223B
E. coli	107.6 MPN/100mL	1	SM9223B

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

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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:** 19.041      **Site Number:** 22T-002

**SiteID:** WWL-06-0131      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52403  
**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	80.2 %		ASTM D888-09(C)
DO	7.12 mg/L		ASTM D888-09(C)
pH (Field)	7.74 SU		EPA 150.2
Specific Conductance (Field)	874 umho/cm		SM2510B
Temperature	21.1 °C		SM2550B(2)
Turbidity (Hach)	15.1 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: AB52403	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	76.7 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0131      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52543  
**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	78.1 %		ASTM D888-09(C)
DO	6.7 mg/L		ASTM D888-09(C)
pH (Field)	7.57 SU		EPA 150.2
Specific Conductance (Field)	900 umho/cm		SM2510B
Temperature	22.9 °C		SM2550B(2)
Turbidity (Hach)	9.53 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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Lab ID #:	Result	Reporting Limit	Method	
AB52543	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	183.5 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0131      **Sample Date:** 8/15/2022      **IDEM Sample #:** AB51379  
**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 #:	Result	Reporting Limit	Method
	% Sat	91.5 %	ASTM D888-09(C)
	DO	8.08 mg/L	ASTM D888-09(C)
	pH (Field)	7.74 SU	EPA 150.2
	Specific Conductance (Field)	1001 umho/cm	SM2510B
	Temperature	21.4 °C	SM2550B(2)
	Turbidity (Hach)	6.31 NTU	EPA 180.1
	Air Temp	4 Lookup	Observation
	Sky Conditions	4 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	1 Lookup	Observation

**SiteID:** WWL-06-0131      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52573  
**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	80.7 %	ASTM D888-09(C)
	DO	7.33 mg/L	ASTM D888-09(C)
	pH (Field)	7.71 SU	EPA 150.2
	Specific Conductance (Field)	944 umho/cm	SM2510B
	Temperature	19.9 °C	SM2550B(2)
	Turbidity (Hach)	8.76 NTU	EPA 180.1
	Air Temp	4 Lookup	Observation
	Sky Conditions	1 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	1 Lookup	Observation

Lab ID #:	Result	Reporting Limit	Method	
AB52573	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	54.6 MPN/100mL	1	SM9223B

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SiteID: WWL-06-0131      Sample Date: 8/24/2022      IDEM Sample #: AB52613  
 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	92 %		ASTM D888-09(C)
DO	8.41 mg/L		ASTM D888-09(C)
pH (Field)	7.93 SU		EPA 150.2
Specific Conductance (Field)	913 umho/cm		SM2510B
Temperature	19.6 °C		SM2550B(2)
Turbidity (Hach)	6.51 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50324319018	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	164 mg/L	10	SM2320B
Chloride	12.4 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	446 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.4 mg/L	2.5	SM2540D
Solids, Total (TS)	674 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	630 mg/L	10	SM2540C
Sulfate	305 mg/L	25	EPA 300.0
Calcium (Total)	98700 ug/L	1000	EPA 200.7
Magnesium (Total)	48500 ug/L	1000	EPA 200.7
COD	13.9 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.7 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	2.9 mg/L	1	SM5310C

Lab ID #: AB52613	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	133.6 MPN/100mL	1	SM9223B

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**SiteID:** WWL-06-0131      **Sample Date:** 9/21/2022      **IDEM Sample #:** AB52871  
**Water Flow Type**    Glide      **Water Appearance**    Clear      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	80 %		ASTM D888-09(C)
DO	6.82 mg/L		ASTM D888-09(C)
pH (Field)	7.78 SU		EPA 150.2
Specific Conductance (Field)	1000 umho/cm		SM2510B
Temperature	23.1 °C		SM2550B(2)
Turbidity (Hach)	3.49 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #: 50326553018</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	141 mg/L	10	SM2320B
Chloride	11.1 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	525 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.5 mg/L	2.5	SM2540D
Solids, Total (TS)	775 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	720 mg/L	10	SM2540C
Sulfate	303 mg/L	25	EPA 300.0
Calcium (Total)	108000 ug/L	1000	EPA 200.7
Magnesium (Total)	62100 ug/L	1000	EPA 200.7
COD	12.7 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.25 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

<b>Lab ID #: AB52871</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	81.3 MPN/100mL	1	SM9223B

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**SiteID:** WWL-06-0131      **Sample Date:** 10/19/2022      **IDEM Sample #:** AB53165  
**Water Flow Type** Run      **Water Appearance** Green      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Excessive algae

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	82.6 %		ASTM D888-09(C)
DO	10.64 mg/L		ASTM D888-09(C)
pH (Field)	7.87 SU		EPA 150.2
Specific Conductance (Field)	921 umho/cm		SM2510B
Temperature	4.6 °C		SM2550B(2)
Turbidity (Hach)	40.2 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #:</b> 50328901010	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	157 mg/L	10	SM2320B
Chloride	14.1 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	463 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	31 mg/L	2.5	SM2540D
Solids, Total (TS)	679 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	640 mg/L	10	SM2540C
Sulfate	316 mg/L	25	EPA 300.0
Calcium (Total)	97000 ug/L	1000	EPA 200.7
Magnesium (Total)	53700 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	0.55 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	2.9 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53165	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	185 MPN/100mL	1	SM9223B

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

**Indiana Department of Environmental Management  
Office of Water Quality-Watershed Assessment and Planning Branch  
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:** 5.417      **Site Number:** 22T-003

**SiteID:** WWL-06-0151      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52406  
**Water Flow Type** Eddy      **Water Appearance** Brown      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Foam present within limits of eddy downstream side of sampling site.

Lab ID #:	Result	Reporting Limit	Method
% Sat	75.2 %		ASTM D888-09(C)
DO	6.54 mg/L		ASTM D888-09(C)
pH (Field)	7.65 SU		EPA 150.2
Specific Conductance (Field)	739 umho/cm		SM2510B
Temperature	22.2 °C		SM2550B(2)
Turbidity (Hach)	7.02 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: AB52406	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	80.1 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0151      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52546  
**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	47 %		ASTM D888-09(C)
DO	3.77 mg/L		ASTM D888-09(C)
pH (Field)	7.47 SU		EPA 150.2
Specific Conductance (Field)	814 umho/cm		SM2510B
Temperature	26.6 °C		SM2550B(2)
Turbidity (Hach)	9.28 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method	
AB52546	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	72.7 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0151      **Sample Date:** 8/15/2022      **IDEM Sample #:** AB51380  
**Water Flow Type** Glide      **Water Appearance** Clear      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Algal mats

Lab ID #:	Result	Reporting Limit	Method
	% Sat	90.9 %	ASTM D888-09(C)
	DO	7.68 mg/L	ASTM D888-09(C)
	pH (Field)	7.63 SU	EPA 150.2
	Specific Conductance (Field)	1350 umho/cm	SM2510B
	Temperature	23.6 °C	SM2550B(2)
	Turbidity (Hach)	8.11 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	4 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	2 Lookup	Observation

**SiteID:** WWL-06-0151      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52576  
**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	60 %	ASTM D888-09(C)
	DO	5.26 mg/L	ASTM D888-09(C)
	pH (Field)	7.67 SU	EPA 150.2
	Specific Conductance (Field)	1006 umho/cm	SM2510B
	Temperature	21.8 °C	SM2550B(2)
	Turbidity (Hach)	10.2 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	1 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	1 Lookup	Observation

Lab ID #:	Result	Reporting Limit	Method	
AB52576	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	45.5 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0151      **Sample Date:** 8/24/2022      **IDEM Sample #:** AB52616  
**Water Flow Type** Pool      **Water Appearance** Murky      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Excess algae buildup upstream from bridge

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	62.7 %		ASTM D888-09(C)
DO	5.38 mg/L		ASTM D888-09(C)
pH (Field)	7.88 SU		EPA 150.2
Specific Conductance (Field)	701 umho/cm		SM2510B
Temperature	22.9 °C		SM2550B(2)
Turbidity (Hach)	12 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #: 50324319020</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	158 mg/L	10	SM2320B
Chloride	11.4 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	365 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	14.5 mg/L	2.5	SM2540D
Solids, Total (TS)	517 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	453 mg/L	10	SM2540C
Sulfate	197 mg/L	2.5	EPA 300.0
Calcium (Total)	65000 ug/L	1000	EPA 200.7
Magnesium (Total)	49200 ug/L	1000	EPA 200.7
COD	13.2 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	0.62 mg/L	0.5	EPA 351.2
TOC	4.5 mg/L	1	SM5310C

<b>Lab ID #: AB52616</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	10.9 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0151      Sample Date: 9/21/2022      IDEM Sample #: AB52874  
 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	78.1 %		ASTM D888-09(C)
DO	6.55 mg/L		ASTM D888-09(C)
pH (Field)	7.79 SU		EPA 150.2
Specific Conductance (Field)	1668 umho/cm		SM2510B
Temperature	24 °C		SM2550B(2)
Turbidity (Hach)	16.8 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50326553020	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	116 mg/L	10	SM2320B
Chloride	4.5 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1060 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	11.4 mg/L	2.5	SM2540D
Solids, Total (TS)	1510 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1380 mg/L	20	SM2540C
Sulfate	846 mg/L	25	EPA 300.0
Calcium (Total)	183000 ug/L	1000	EPA 200.7
Magnesium (Total)	147000 ug/L	1000	EPA 200.7
COD	13.3 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	3.6 mg/L	1	SM5310C

Lab ID #: AB52874	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	32.3 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0151      **Sample Date:** 10/19/2022      **IDEM Sample #:** AB53168  
**Water Flow Type** Pool      **Water Appearance** Green      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Excessive algae

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	74 %		ASTM D888-09(C)
DO	9.24 mg/L		ASTM D888-09(C)
pH (Field)	7.96 SU		EPA 150.2
Specific Conductance (Field)	1566 umho/cm		SM2510B
Temperature	5.7 °C		SM2550B(2)
Turbidity (Hach)	27.2 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	7 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #:</b> 50328901012	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	85.8 mg/L	10	SM2320B
Chloride	7.7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	940 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	25.4 mg/L	2.5	SM2540D
Solids, Total (TS)	1440 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1260 mg/L	20	SM2540C
Sulfate	827 mg/L	25	EPA 300.0
Calcium (Total)	150000 ug/L	1000	EPA 200.7
Magnesium (Total)	137000 ug/L	1000	EPA 200.7
COD	14.2 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	4.6 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53168	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	1119.9 MPN/100mL	1	SM9223B
E. coli	8.4 MPN/100mL	1	SM9223B

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

**Indiana Department of Environmental Management  
Office of Water Quality-Watershed Assessment and Planning Branch  
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:** 7.362      **Site Number:** 22T-004

**SiteID:** WWL-06-0133      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52404  
**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	83.5 %		ASTM D888-09(C)
DO	6.92 mg/L		ASTM D888-09(C)
pH (Field)	7.86 SU		EPA 150.2
Specific Conductance (Field)	1130 umho/cm		SM2510B
Temperature	24.7 °C		SM2550B(2)
Turbidity (Hach)	8.71 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52404	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	122.2 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0133      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52544  
**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	90.4 %		ASTM D888-09(C)
DO	7.14 mg/L		ASTM D888-09(C)
pH (Field)	7.76 SU		EPA 150.2
Specific Conductance (Field)	1188 umho/cm		SM2510B
Temperature	27.4 °C		SM2550B(2)
Turbidity (Hach)	6.67 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

Lab ID #: AB52544	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	105.4 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0133      **Sample Date:** 8/15/2022      **IDEM Sample #:** AB51381  
**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	136 %		ASTM D888-09(C)
DO	11.1 mg/L		ASTM D888-09(C)
pH (Field)	8.3 SU		EPA 150.2
Specific Conductance (Field)	1209 umho/cm		SM2510B
Temperature	25.6 °C		SM2550B(2)
Turbidity (Hach)	3.24 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

**SiteID:** WWL-06-0133      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52574  
**Water Flow Type** Glide      **Water Appearance** Clear      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** White bubbly skim present floating on top of water

Lab ID #:	Result	Reporting Limit	Method
% Sat	104 %		ASTM D888-09(C)
DO	8.72 mg/L		ASTM D888-09(C)
pH (Field)	8.14 SU		EPA 150.2
Specific Conductance (Field)	1224 umho/cm		SM2510B
Temperature	24 °C		SM2550B(2)
Turbidity (Hach)	5.57 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52574	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	50.4 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0133      **Sample Date:** 8/24/2022      **IDEM Sample #:** AB52614  
**Water Flow Type** Eddy      **Water Appearance** Clear      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	100.7 %		ASTM D888-09(C)
DO	8.57 mg/L		ASTM D888-09(C)
pH (Field)	8.13 SU		EPA 150.2
Specific Conductance (Field)	1277 umho/cm		SM2510B
Temperature	23.2 °C		SM2550B(2)
Turbidity (Hach)	5.22 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

<b>Lab ID #: 50324319019</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	121 mg/L	10	SM2320B
Chloride	2 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	666 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.8 mg/L	2.5	SM2540D
Solids, Total (TS)	1040 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	920 mg/L	20	SM2540C
Sulfate	564 mg/L	25	EPA 300.0
Calcium (Total)	130000 ug/L	1000	EPA 200.7
Magnesium (Total)	82800 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	0.51 mg/L	0.5	EPA 351.2
TOC	4.4 mg/L	1	SM5310C

<b>Lab ID #: AB52614</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	90.8 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0133

Sample Date: 9/21/2022

IDEM Sample #: AB52872

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	87.1 %		ASTM D888-09(C)
DO	7.28 mg/L		ASTM D888-09(C)
pH (Field)	7.87 SU		EPA 150.2
Specific Conductance (Field)	1352 umho/cm		SM2510B
Temperature	24.1 °C		SM2550B(2)
Turbidity (Hach)	3.36 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50326553019	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	131 mg/L	10	SM2320B
Chloride	2.7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	741 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.7 mg/L	2.5	SM2540D
Solids, Total (TS)	1120 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1030 mg/L	20	SM2540C
Sulfate	631 mg/L	25	EPA 300.0
Calcium (Total)	146000 ug/L	1000	EPA 200.7
Magnesium (Total)	91700 ug/L	1000	EPA 200.7
COD	14.9 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.11 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.063 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	4 mg/L	1	SM5310C

Lab ID #: AB52872	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	39.3 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0133      **Sample Date:** 10/19/2022      **IDEM Sample #:** AB53166  
**Water Flow Type**    Glide      **Water Appearance**    Green      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**    Excessive algae

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	82.7 %		ASTM D888-09(C)
DO	10.82 mg/L		ASTM D888-09(C)
pH (Field)	7.93 SU		EPA 150.2
Specific Conductance (Field)	1499 umho/cm		SM2510B
Temperature	3.9 °C		SM2550B(2)
Turbidity (Hach)	14.8 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #:</b> 50328901011	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	151 mg/L	10	SM2320B
Chloride	2.7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	799 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8 mg/L	2.5	SM2540D
Solids, Total (TS)	1270 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1160 mg/L	20	SM2540C
Sulfate	717 mg/L	25	EPA 300.0
Calcium (Total)	153000 ug/L	1000	EPA 200.7
Magnesium (Total)	101000 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	< 0.1 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	4.9 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53166	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	1413.6 MPN/100mL	1	SM9223B
E. coli	108.1 MPN/100mL	1	SM9223B

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

**Indiana Department of Environmental Management  
Office of Water Quality-Watershed Assessment and Planning Branch  
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:** 108.971      **Site Number:** 22T-005

**SiteID:** WWL-06-0134      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52407  
**Water Flow Type** Glide      **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	61.8 %		ASTM D888-09(C)
DO	5.39 mg/L		ASTM D888-09(C)
pH (Field)	7.6 SU		EPA 150.2
Specific Conductance (Field)	779 umho/cm		SM2510B
Temperature	22 °C		SM2550B(2)
Turbidity (Hach)	40.3 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> AB52407	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
E. coli	613.1 MPN/100mL	1	SM9223B

<u>Lab ID #:</u> AB52407b	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	20140 MPN/100mL	100	SM9223B

**SiteID:** WWL-06-0134      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52547  
**Water Flow Type** Glide      **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	66.8 %		ASTM D888-09(C)
DO	5.61 mg/L		ASTM D888-09(C)
pH (Field)	7.62 SU		EPA 150.2
Specific Conductance (Field)	830 umho/cm		SM2510B
Temperature	23.8 °C		SM2550B(2)
Turbidity (Hach)	34.4 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method	
AB52547	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	307.6 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0134      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB51382  
**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	69.4 %	ASTM D888-09(C)
	DO	6.26 mg/L	ASTM D888-09(C)
	pH (Field)	7.63 SU	EPA 150.2
	Specific Conductance (Field)	888 umho/cm	SM2510B
	Temperature	20.2 °C	SM2550B(2)
	Turbidity (Hach)	23.8 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	1 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	1 Lookup	Observation

**SiteID:** WWL-06-0134      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52577  
**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	68.7 %	ASTM D888-09(C)
	DO	6.21 mg/L	ASTM D888-09(C)
	pH (Field)	7.75 SU	EPA 150.2
	Specific Conductance (Field)	985 umho/cm	SM2510B
	Temperature	20.1 °C	SM2550B(2)
	Turbidity (Hach)	28.3 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	1 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	2 Lookup	Observation

Lab ID #:	Result	Reporting Limit	Method	
AB52577	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	248.1 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0134      Sample Date: 8/24/2022      IDEM Sample #: AB52617  
 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	68.8 %		ASTM D888-09(C)
DO	6.24 mg/L		ASTM D888-09(C)
pH (Field)	7.85 SU		EPA 150.2
Specific Conductance (Field)	925 umho/cm		SM2510B
Temperature	20 °C		SM2550B(2)
Turbidity (Hach)	29.4 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50324319021	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	199 mg/L	10	SM2320B
Chloride	12.6 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	448 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	27.6 mg/L	3.6	SM2540D
Solids, Total (TS)	720 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	613 mg/L	10	SM2540C
Sulfate	267 mg/L	25	EPA 300.0
Calcium (Total)	104000 ug/L	1000	EPA 200.7
Magnesium (Total)	45600 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	1.2 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.062 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.3 mg/L	1	SM5310C

Lab ID #: AB52617	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	461.1 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0134      Sample Date: 9/21/2022      IDEM Sample #: AB52875  
 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	71 %		ASTM D888-09(C)
DO	6 mg/L		ASTM D888-09(C)
pH (Field)	7.79 SU		EPA 150.2
Specific Conductance (Field)	975 umho/cm		SM2510B
Temperature	23.6 °C		SM2550B(2)
Turbidity (Hach)	33.5 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50326553021	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	202 mg/L	10	SM2320B
Chloride	13.3 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	500 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	37.4 mg/L	5	SM2540D
Solids, Total (TS)	748 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	667 mg/L	10	SM2540C
Sulfate	301 mg/L	25	EPA 300.0
Calcium (Total)	117000 ug/L	1000	EPA 200.7
Magnesium (Total)	50600 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	1.2 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.089 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 #: AB52875	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	218.7 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0134      **Sample Date:** 10/19/2022      **IDEM Sample #:** AB53169  
**Water Flow Type** Run      **Water Appearance** Brown      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	78.2 %		ASTM D888-09(C)
DO	9.29 mg/L		ASTM D888-09(C)
pH (Field)	7.72 SU		EPA 150.2
Specific Conductance (Field)	947 umho/cm		SM2510B
Temperature	7.8 °C		SM2550B(2)
Turbidity (Hach)	39 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #:</b> 50328901013	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	234 mg/L	10	SM2320B
Chloride	17.9 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	478 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	10.6 mg/L	2.5	SM2540D
Solids, Total (TS)	692 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	641 mg/L	10	SM2540C
Sulfate	270 mg/L	25	EPA 300.0
Calcium (Total)	112000 ug/L	1000	EPA 200.7
Magnesium (Total)	47700 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	1.9 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

<b>Lab ID #:</b> AB53169	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	198.9 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> Sky Conditions	<b>WD</b> Wind Direction	<b>WS</b> Wind Strength	<b>AT</b> 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:** 106.171      **Site Number:** 22T-006

**SiteID:** WWL-06-0135      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52408  
**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	71.6 %		ASTM D888-09(C)
DO	6.02 mg/L		ASTM D888-09(C)
pH (Field)	7.97 SU		EPA 150.2
Specific Conductance (Field)	815 umho/cm		SM2510B
Temperature	23.7 °C		SM2550B(2)
Turbidity (Hach)	42.9 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: AB52408	Result	Reporting Limit	Method
E. coli	365.4 MPN/100mL	1	SM9223B

Lab ID #: AB52408b	Result	Reporting Limit	Method
Coliforms (Total)	22240 MPN/100mL	100	SM9223B

**SiteID:** WWL-06-0135      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52548  
**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	68 %		ASTM D888-09(C)
DO	5.5 mg/L		ASTM D888-09(C)
pH (Field)	7.81 SU		EPA 150.2
Specific Conductance (Field)	930 umho/cm		SM2510B
Temperature	25.9 °C		SM2550B(2)
Turbidity (Hach)	54.9 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method	
AB52548	E. coli	1119.9 MPN/100mL	1	SM9223B
AB52548b	Coliforms (Total)	13960 MPN/100mL	100	SM9223B

**SiteID:** WWL-06-0135      **Sample Date:** 8/15/2022      **IDEM Sample #:** AB51383  
**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 #:	Result	Reporting Limit	Method
	% Sat	139.5 %	ASTM D888-09(C)
	DO	11.76 mg/L	ASTM D888-09(C)
	pH (Field)	8.04 SU	EPA 150.2
	Specific Conductance (Field)	987 umho/cm	SM2510B
	Temperature	23.8 °C	SM2550B(2)
	Turbidity (Hach)	13.8 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	4 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	1 Lookup	Observation

**SiteID:** WWL-06-0135      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52578  
**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	86.4 %	ASTM D888-09(C)
	DO	7.58 mg/L	ASTM D888-09(C)
	pH (Field)	7.96 SU	EPA 150.2
	Specific Conductance (Field)	1016 umho/cm	SM2510B
	Temperature	21.7 °C	SM2550B(2)
	Turbidity (Hach)	37.8 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	1 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	1 Lookup	Observation

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

Lab ID #: AB52578	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	261.3 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0135      **Sample Date:** 8/24/2022      **IDEM Sample #:** AB52618  
**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	73.8 %		ASTM D888-09(C)
DO	6.5 mg/L		ASTM D888-09(C)
pH (Field)	7.98 SU		EPA 150.2
Specific Conductance (Field)	1024 umho/cm		SM2510B
Temperature	21.5 °C		SM2550B(2)
Turbidity (Hach)	35.2 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50324319022	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	193 mg/L	10	SM2320B
Chloride	12.7 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	488 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	27.2 mg/L	5	SM2540D
Solids, Total (TS)	785 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	686 mg/L	10	SM2540C
Sulfate	332 mg/L	25	EPA 300.0
Calcium (Total)	111000 ug/L	1000	EPA 200.7
Magnesium (Total)	51300 ug/L	1000	EPA 200.7
COD	12.4 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.11 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.96 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	0.59 mg/L	0.5	EPA 351.2
TOC	3.8 mg/L	1	SM5310C

Lab ID #: AB52618	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	166.4 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0135      **Sample Date:** 9/21/2022      **IDEM Sample #:** AB52876  
**Water Flow Type**    Glide      **Water Appearance**    Murky      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	71.1 %		ASTM D888-09(C)
DO	6.09 mg/L		ASTM D888-09(C)
pH (Field)	7.83 SU		EPA 150.2
Specific Conductance (Field)	1075 umho/cm		SM2510B
Temperature	22.9 °C		SM2550B(2)
Turbidity (Hach)	28.6 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #: 50326553022</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	205 mg/L	10	SM2320B
Chloride	13 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	559 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	40.6 mg/L	5	SM2540D
Solids, Total (TS)	840 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	726 mg/L	20	SM2540C
Sulfate	358 mg/L	25	EPA 300.0
Calcium (Total)	129000 ug/L	1000	EPA 200.7
Magnesium (Total)	57500 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	0.83 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.071 mg/L	0.05	EPA 365.1
TKN	0.62 mg/L	0.5	EPA 351.2
TOC	3.4 mg/L	1	SM5310C

<b>Lab ID #: AB52876</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	178.5 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0135      **Sample Date:** 10/19/2022      **IDEM Sample #:** AB53170  
**Water Flow Type** Run      **Water Appearance** Murky      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	84.1 %		ASTM D888-09(C)
DO	10.26 mg/L		ASTM D888-09(C)
pH (Field)	7.88 SU		EPA 150.2
Specific Conductance (Field)	1069 umho/cm		SM2510B
Temperature	6.6 °C		SM2550B(2)
Turbidity (Hach)	21.8 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #:</b> 50328901014	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	235 mg/L	10	SM2320B
Chloride	19.8 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	530 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	18.2 mg/L	2.5	SM2540D
Solids, Total (TS)	782 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	736 mg/L	10	SM2540C
Sulfate	323 mg/L	25	EPA 300.0
Calcium (Total)	122000 ug/L	1000	EPA 200.7
Magnesium (Total)	54800 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	1.6 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.062 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	2.8 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53170	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	90.7 MPN/100mL	1	SM9223B
E. coli	1046.2 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> Sky Conditions	<b>WD</b> Wind Direction	<b>WS</b> Wind Strength	<b>AT</b> 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-06-0136      **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:** 4.054      **Site Number:** 22T-007

**SiteID:** WWL-06-0136      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52409  
**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	81.3 %		ASTM D888-09(C)
DO	6.89 mg/L		ASTM D888-09(C)
pH (Field)	7.61 SU		EPA 150.2
Specific Conductance (Field)	617 umho/cm		SM2510B
Temperature	23.6 °C		SM2550B(2)
Turbidity (Hach)	7.47 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: AB52409	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	22.6 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0136      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52549  
**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	63.9 %		ASTM D888-09(C)
DO	5.11 mg/L		ASTM D888-09(C)
pH (Field)	7.64 SU		EPA 150.2
Specific Conductance (Field)	609 umho/cm		SM2510B
Temperature	26.7 °C		SM2550B(2)
Turbidity (Hach)	6.88 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method	
AB52549	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	6.3 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0136      **Sample Date:** 8/15/2022      **IDEM Sample #:** AB51384  
**Water Flow Type** Run      **Water Appearance** Clear      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Excessive Algae

Lab ID #:	Result	Reporting Limit	Method
	% Sat	43.4 %	ASTM D888-09(C)
	DO	3.73 mg/L	ASTM D888-09(C)
	pH (Field)	7.49 SU	EPA 150.2
	Specific Conductance (Field)	603 umho/cm	SM2510B
	Temperature	23.7 °C	SM2550B(2)
	Turbidity (Hach)	7.34 NTU	EPA 180.1
	Air Temp	4 Lookup	Observation
	Sky Conditions	4 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	1 Lookup	Observation

**SiteID:** WWL-06-0136      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52579  
**Water Flow Type** Stagnant      **Water Appearance** Clear      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Algae present upstream, appeared within last week of sampling

Lab ID #:	Result	Reporting Limit	Method
	% Sat	117.8 %	ASTM D888-09(C)
	DO	9.98 mg/L	ASTM D888-09(C)
	pH (Field)	8 SU	EPA 150.2
	Specific Conductance (Field)	545 umho/cm	SM2510B
	Temperature	23.6 °C	SM2550B(2)
	Turbidity (Hach)	7.16 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	1 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	2 Lookup	Observation

Lab ID #:	Result	Reporting Limit	Method	
AB52579	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	5.2 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0136      **Sample Date:** 8/24/2022      **IDEM Sample #:** AB52619  
**Water Flow Type** Pool      **Water Appearance** Murky      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Algae nearly covering surface upstream of bridge. Some algae downstream of bridge.

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	122.1 %		ASTM D888-09(C)
DO	10.62 mg/L		ASTM D888-09(C)
pH (Field)	8.78 SU		EPA 150.2
Specific Conductance (Field)	382 umho/cm		SM2510B
Temperature	22.2 °C		SM2550B(2)
Turbidity (Hach)	8.02 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

<b>Lab ID #: 50324319023</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	144 mg/L	10	SM2320B
Chloride	22.8 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	152 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	4.2 mg/L	2.5	SM2540D
Solids, Total (TS)	224 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	198 mg/L	10	SM2540C
Sulfate	17.4 mg/L	2.5	EPA 300.0
Calcium (Total)	24600 ug/L	1000	EPA 200.7
Magnesium (Total)	22100 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	0.074 mg/L	0.05	EPA 365.1
TKN	0.52 mg/L	0.5	EPA 351.2
TOC	5.2 mg/L	1	SM5310C

<b>Lab ID #: AB52619</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	2 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0136

Sample Date: 9/20/2022

IDEM Sample #: AB52877

Water Flow Type Stagnant

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	78 %		ASTM D888-09(C)
DO	6.86 mg/L		ASTM D888-09(C)
pH (Field)	7.73 SU		EPA 150.2
Specific Conductance (Field)	274.5 umho/cm		SM2510B
Temperature	21.7 °C		SM2550B(2)
Turbidity (Hach)	7.82 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50326553023	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	109 mg/L	10	SM2320B
Chloride	16 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	134 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	10.9 mg/L	2.5	SM2540D
Solids, Total (TS)	137 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	141 mg/L	10	SM2540C
Sulfate	9.9 mg/L	0.25	EPA 300.0
Calcium (Total)	32000 ug/L	1000	EPA 200.7
Magnesium (Total)	13000 ug/L	1000	EPA 200.7
COD	17.6 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	0.093 mg/L	0.05	EPA 365.1
TKN	0.69 mg/L	0.5	EPA 351.2
TOC	4.7 mg/L	1	SM5310C

Lab ID #: AB52877	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	41.4 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-06-0137      **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:** 97.872      **Site Number:** 22T-008

**SiteID:** WWL-06-0137      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52395  
**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	72.2 %		ASTM D888-09(C)
DO	5.99 mg/L		ASTM D888-09(C)
pH (Field)	7.89 SU		EPA 150.2
Specific Conductance (Field)	846 umho/cm		SM2510B
Temperature	24.5 °C		SM2550B(2)
Turbidity (Hach)	52.2 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #:	Result	Reporting Limit	Method
AB52395			
E. coli	524.7 MPN/100mL	1	SM9223B

Lab ID #:	Result	Reporting Limit	Method
AB52395b			
Coliforms (Total)	24810 MPN/100mL	100	SM9223B

**SiteID:** WWL-06-0137      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52535  
**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	67.5 %		ASTM D888-09(C)
DO	5.36 mg/L		ASTM D888-09(C)
pH (Field)	7.78 SU		EPA 150.2
Specific Conductance (Field)	914 umho/cm		SM2510B
Temperature	27 °C		SM2550B(2)
Turbidity (Hach)	47.2 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method	
AB52535	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	727 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0137      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB51385  
**Water Flow Type** Glide      **Water Appearance** Murky      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Film on surface of water

Lab ID #:	Result	Reporting Limit	Method
	% Sat	80.8 %	ASTM D888-09(C)
	DO	6.94 mg/L	ASTM D888-09(C)
	pH (Field)	7.74 SU	EPA 150.2
	Specific Conductance (Field)	942 umho/cm	SM2510B
	Temperature	22.8 °C	SM2550B(2)
	Turbidity (Hach)	51.2 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	1 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	1 Lookup	Observation

**SiteID:** WWL-06-0137      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52565  
**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	90.9 %	ASTM D888-09(C)
	DO	7.68 mg/L	ASTM D888-09(C)
	pH (Field)	8.01 SU	EPA 150.2
	Specific Conductance (Field)	962 umho/cm	SM2510B
	Temperature	23.8 °C	SM2550B(2)
	Turbidity (Hach)	41.3 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	1 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	3 Lookup	Observation

Lab ID #:	Result	Reporting Limit	Method	
AB52565	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**

SiteID: WWL-06-0137

Sample Date: 8/23/2022

IDEM Sample #: AB52605

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	78.9 %		ASTM D888-09(C)
DO	6.8 mg/L		ASTM D888-09(C)
pH (Field)	7.88 SU		EPA 150.2
Specific Conductance (Field)	1073 umho/cm		SM2510B
Temperature	22.6 °C		SM2550B(2)
Turbidity (Hach)	54.3 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50324319010	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	182 mg/L	10	SM2320B
Chloride	15 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	509 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	39.6 mg/L	5	SM2540D
Solids, Total (TS)	845 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	739 mg/L	10	SM2540C
Sulfate	388 mg/L	25	EPA 300.0
Calcium (Total)	114000 ug/L	1000	EPA 200.7
Magnesium (Total)	54500 ug/L	1000	EPA 200.7
COD	19.3 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.79 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.086 mg/L	0.05	EPA 365.1
TKN	0.76 mg/L	0.5	EPA 351.2
TOC	3.9 mg/L	1	SM5310C

Lab ID #: AB52605	Result	Reporting Limit	Method
E. coli	201.4 MPN/100mL	1	SM9223B

Lab ID #: AB52605b	Result	Reporting Limit	Method
Coliforms (Total)	7940 MPN/100mL	100	SM9223B

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

**SiteID:** WWL-06-0137      **Sample Date:** 9/21/2022      **IDEM Sample #:** AB52863  
**Water Flow Type**    Glide      **Water Appearance**    Murky      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	92.2 %		ASTM D888-09(C)
DO	7.65 mg/L		ASTM D888-09(C)
pH (Field)	7.78 SU		EPA 150.2
Specific Conductance (Field)	1152 umho/cm		SM2510B
Temperature	24.6 °C		SM2550B(2)
Turbidity (Hach)	36.2 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #: 50326553010</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	196 mg/L	10	SM2320B
Chloride	14.1 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	582 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	38.2 mg/L	5	SM2540D
Solids, Total (TS)	922 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	822 mg/L	20	SM2540C
Sulfate	420 mg/L	25	EPA 300.0
Calcium (Total)	130000 ug/L	1000	EPA 200.7
Magnesium (Total)	62300 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	0.61 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	0.67 mg/L	0.5	EPA 351.2
TOC	4.2 mg/L	1	SM5310C

<b>Lab ID #: AB52863</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	131.4 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0137      **Sample Date:** 10/19/2022      **IDEM Sample #:** AB53157  
**Water Flow Type**    Glide      **Water Appearance**    Brown      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**    Film layer on water. Excessive algae.

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	78.7 %		ASTM D888-09(C)
DO	9.56 mg/L		ASTM D888-09(C)
pH (Field)	7.74 SU		EPA 150.2
Specific Conductance (Field)	1226 umho/cm		SM2510B
Temperature	6.9 °C		SM2550B(2)
Turbidity (Hach)	13.1 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #:</b> 50328901002	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	232 mg/L	10	SM2320B
Chloride	24.6 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	555 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	19.3 mg/L	2.5	SM2540D
Solids, Total (TS)	928 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	878 mg/L	20	SM2540C
Sulfate	403 mg/L	25	EPA 300.0
Calcium (Total)	126000 ug/L	1000	EPA 200.7
Magnesium (Total)	58400 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	1.5 mg/L	0.1	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.51 mg/L	0.5	EPA 351.2
TOC	3.4 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53157	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	90.6 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> Sky Conditions	<b>WD</b> Wind Direction	<b>WS</b> Wind Strength	<b>AT</b> Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	0 - < 32
2 - Scattered	9 - Snow	1 - East (90 Degrees)	1 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	2 - Mod./Light
4 - Cloudy		27 - West (270 Degrees)	3 - 46-60
5 - Mist			4 - Moderate
6 - Fog			5 - Mod./Strong
7 - Shower			6 - 61-75
			5 - 76-85
			6 - Strong
			6 - > 86
			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:** 91.972      **Site Number:** 22T-009

**SiteID:** WWL-06-0138      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52396  
**Water Flow Type** Glide      **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	73.7 %		ASTM D888-09(C)
DO	6.06 mg/L		ASTM D888-09(C)
pH (Field)	8.14 SU		EPA 150.2
Specific Conductance (Field)	889 umho/cm		SM2510B
Temperature	24.4 °C		SM2550B(2)
Turbidity (Hach)	53.4 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

<u>Lab ID #:</u> AB52396	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
E. coli	920.8 MPN/100mL	1	SM9223B

<u>Lab ID #:</u> AB52396b	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	13960 MPN/100mL	100	SM9223B

**SiteID:** WWL-06-0138      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52536  
**Water Flow Type** Glide      **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	67 %		ASTM D888-09(C)
DO	5.31 mg/L		ASTM D888-09(C)
pH (Field)	7.82 SU		EPA 150.2
Specific Conductance (Field)	975 umho/cm		SM2510B
Temperature	26.7 °C		SM2550B(2)
Turbidity (Hach)	82 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method
AB52536	E. coli 1553.1 MPN/100mL	1	SM9223B
AB52536b	Coliforms (Total) 24810 MPN/100mL	100	SM9223B

**SiteID:** WWL-06-0138      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB51386  
**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 #:	Result	Reporting Limit	Method
% Sat	65.3 %		ASTM D888-09(C)
DO	5.58 mg/L		ASTM D888-09(C)
pH (Field)	7.7 SU		EPA 150.2
Specific Conductance (Field)	1173 umho/cm		SM2510B
Temperature	23 °C		SM2550B(2)
Turbidity (Hach)	38.3 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

**SiteID:** WWL-06-0138      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52566  
**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	66.6 %		ASTM D888-09(C)
DO	5.7 mg/L		ASTM D888-09(C)
pH (Field)	7.8 SU		EPA 150.2
Specific Conductance (Field)	1023 umho/cm		SM2510B
Temperature	23.2 °C		SM2550B(2)
Turbidity (Hach)	61.4 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #:	Result	Reporting Limit	Method
AB52566	E. coli 228.2 MPN/100mL	1	SM9223B

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

<b>Lab ID #:</b> AB52566b	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	20980 MPN/100mL	100	SM9223B

**SiteID:** WWL-06-0138      **Sample Date:** 8/23/2022      **IDEM Sample #:** AB52606  
**Water Flow Type** Glide      **Water Appearance** Murky      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	62.2 %		ASTM D888-09(C)
DO	5.26 mg/L		ASTM D888-09(C)
pH (Field)	7.86 SU		EPA 150.2
Specific Conductance (Field)	1176 umho/cm		SM2510B
Temperature	23.2 °C		SM2550B(2)
Turbidity (Hach)	53.4 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #:</b> 50324319011	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	173 mg/L	10	SM2320B
Chloride	13.5 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	555 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	47.8 mg/L	5	SM2540D
Solids, Total (TS)	968 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	834 mg/L	10	SM2540C
Sulfate	420 mg/L	25	EPA 300.0
Calcium (Total)	122000 ug/L	1000	EPA 200.7
Magnesium (Total)	61200 ug/L	1000	EPA 200.7
COD	17.9 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.12 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.42 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.14 mg/L	0.05	EPA 365.1
TKN	0.91 mg/L	0.5	EPA 351.2
TOC	4.4 mg/L	1	SM5310C

<b>Lab ID #:</b> AB52606	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
E. coli	190.4 MPN/100mL	1	SM9223B

<b>Lab ID #:</b> AB52606b	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	13330 MPN/100mL	100	SM9223B

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

SiteID: WWL-06-0138      Sample Date: 9/20/2022      IDEM Sample #: AB52864  
 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	60.7 %		ASTM D888-09(C)
DO	5.24 mg/L		ASTM D888-09(C)
pH (Field)	7.48 SU		EPA 150.2
Specific Conductance (Field)	1249 umho/cm		SM2510B
Temperature	22.3 °C		SM2550B(2)
Turbidity (Hach)	62.2 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50326553011	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	183 mg/L	10	SM2320B
Chloride	12.8 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	625 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	69.7 mg/L	7.1	SM2540D
Solids, Total (TS)	926 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	928 mg/L	20	SM2540C
Sulfate	501 mg/L	25	EPA 300.0
Calcium (Total)	137000 ug/L	1000	EPA 200.7
Magnesium (Total)	68600 ug/L	1000	EPA 200.7
COD	16.8 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.33 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	0.59 mg/L	0.5	EPA 351.2
TOC	4.6 mg/L	1	SM5310C

Lab ID #: AB52864	Result	Reporting Limit	Method
E. coli	209.8 MPN/100mL	1	SM9223B

Lab ID #: AB52864b	Result	Reporting Limit	Method
Coliforms (Total)	8800 MPN/100mL	100	SM9223B

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

**SiteID:** WWL-06-0138      **Sample Date:** 10/19/2022      **IDEM Sample #:** AB53158  
**Water Flow Type** Run      **Water Appearance** Murky      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	78.5 %		ASTM D888-09(C)
DO	9.41 mg/L		ASTM D888-09(C)
pH (Field)	7.9 SU		EPA 150.2
Specific Conductance (Field)	1479 umho/cm		SM2510B
Temperature	7.1 °C		SM2550B(2)
Turbidity (Hach)	17.4 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #:</b> 50328901003	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	232 mg/L	10	SM2320B
Chloride	41.2 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	658 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	14.9 mg/L	2.5	SM2540D
Solids, Total (TS)	1170 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1050 mg/L	20	SM2540C
Sulfate	533 mg/L	25	EPA 300.0
Calcium (Total)	142000 ug/L	1000	EPA 200.7
Magnesium (Total)	73700 ug/L	1000	EPA 200.7
COD	16.1 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	1.3 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.094 mg/L	0.05	EPA 365.1
TKN	0.56 mg/L	0.5	EPA 351.2
TOC	4.7 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53158	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	1732.9 MPN/100mL	1	SM9223B
E. coli	129.6 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> Sky Conditions	<b>WD</b> Wind Direction	<b>WS</b> Wind Strength	<b>AT</b> 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  
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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:** 27.545      **Site Number:** 22T-010

**SiteID:** WWL-06-0152      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52397  
**Water Flow Type** Glide      **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	85.1 %		ASTM D888-09(C)
DO	7.06 mg/L		ASTM D888-09(C)
pH (Field)	8.09 SU		EPA 150.2
Specific Conductance (Field)	593 umho/cm		SM2510B
Temperature	24.3 °C		SM2550B(2)
Turbidity (Hach)	25.9 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> AB52397	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
E. coli	866.4 MPN/100mL	1	SM9223B

<u>Lab ID #:</u> AB52397b	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	32550 MPN/100mL	100	SM9223B

**SiteID:** WWL-06-0152      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52537  
**Water Flow Type** Glide      **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	74.3 %		ASTM D888-09(C)
DO	6 mg/L		ASTM D888-09(C)
pH (Field)	8.35 SU		EPA 150.2
Specific Conductance (Field)	389.5 umho/cm		SM2510B
Temperature	25.8 °C		SM2550B(2)
Turbidity (Hach)	107 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

Lab ID #: AB52537b	Result	Reporting Limit	Method
Coliforms (Total)	> 241960 MPN/100mL	241960	SM9223B
E. coli	19560 MPN/100mL	100	SM9223B

**SiteID:** WWL-06-0152      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52567  
**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	97.8 %		ASTM D888-09(C)
DO	8.41 mg/L		ASTM D888-09(C)
pH (Field)	8.04 SU		EPA 150.2
Specific Conductance (Field)	906 umho/cm		SM2510B
Temperature	22.8 °C		SM2550B(2)
Turbidity (Hach)	12.7 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52567	Result	Reporting Limit	Method
E. coli	547.5 MPN/100mL	1	SM9223B

Lab ID #: AB52567b	Result	Reporting Limit	Method
Coliforms (Total)	12360 MPN/100mL	100	SM9223B

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

**SiteID:** WWL-06-0152      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB51387  
**Water Flow Type** Pool      **Water Appearance** Clear      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	108.9 %		ASTM D888-09(C)
DO	9.29 mg/L		ASTM D888-09(C)
pH (Field)	8.18 SU		EPA 150.2
Specific Conductance (Field)	917 umho/cm		SM2510B
Temperature	23.2 °C		SM2550B(2)
Turbidity (Hach)	9.1 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

**SiteID:** WWL-06-0152      **Sample Date:** 8/23/2022      **IDEM Sample #:** AB52607  
**Water Flow Type** Glide      **Water Appearance** Clear      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	87.4 %		ASTM D888-09(C)
DO	7.54 mg/L		ASTM D888-09(C)
pH (Field)	8.11 SU		EPA 150.2
Specific Conductance (Field)	970 umho/cm		SM2510B
Temperature	22.6 °C		SM2550B(2)
Turbidity (Hach)	22.4 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

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Lab ID #: 50324319012	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	251 mg/L	10	SM2320B
Chloride	38 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	397 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	10.8 mg/L	2.5	SM2540D
Solids, Total (TS)	653 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	602 mg/L	10	SM2540C
Sulfate	199 mg/L	2.5	EPA 300.0
Calcium (Total)	81000 ug/L	1000	EPA 200.7
Magnesium (Total)	47200 ug/L	1000	EPA 200.7
COD	15.8 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	2.1 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.12 mg/L	0.05	EPA 365.1
TKN	0.93 mg/L	0.5	EPA 351.2
TOC	4.5 mg/L	1	SM5310C

Lab ID #: AB52607	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	410.6 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0152      **Sample Date:** 9/20/2022      **IDEM Sample #:** AB52865  
**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	81.1 %		ASTM D888-09(C)
DO	6.85 mg/L		ASTM D888-09(C)
pH (Field)	7.84 SU		EPA 150.2
Specific Conductance (Field)	1010 umho/cm		SM2510B
Temperature	23.6 °C		SM2550B(2)
Turbidity (Hach)	18.2 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

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Lab ID #: 50326553012	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	258 mg/L	10	SM2320B
Chloride	55.2 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	363 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	15.2 mg/L	3.1	SM2540D
Solids, Total (TS)	644 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	624 mg/L	10	SM2540C
Sulfate	198 mg/L	2.5	EPA 300.0
Calcium (Total)	79000 ug/L	1000	EPA 200.7
Magnesium (Total)	40300 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	1.4 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.19 mg/L	0.05	EPA 365.1
TKN	0.74 mg/L	0.5	EPA 351.2
TOC	4.3 mg/L	1	SM5310C

Lab ID #: AB52865	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	261.3 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0152      **Sample Date:** 10/18/2022      **IDEM Sample #:** AB53159  
**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 #:	Result	Reporting Limit	Method
% Sat	73.2 %		ASTM D888-09(C)
DO	8.68 mg/L		ASTM D888-09(C)
pH (Field)	7.88 SU		EPA 150.2
Specific Conductance (Field)	1150 umho/cm		SM2510B
Temperature	7.9 °C		SM2550B(2)
Turbidity (Hach)	14.8 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	2 Lookup		Observation

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<b>Lab ID #:</b> 50328901004	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	296 mg/L	10	SM2320B
Chloride	80.5 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	411 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	18.7 mg/L	3.3	SM2540D
Solids, Total (TS)	736 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	692 mg/L	20	SM2540C
Sulfate	193 mg/L	2.5	EPA 300.0
Calcium (Total)	83500 ug/L	1000	EPA 200.7
Magnesium (Total)	49300 ug/L	1000	EPA 200.7
COD	22.1 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	5.6 mg/L	0.5	EPA 353.2
Phosphorus, Total	0.23 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	5.2 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53159	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	165.8 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>					
<b>SC Sky Conditions</b>		<b>WD Wind Direction</b>		<b>WS Wind Strength</b>	<b>AT Air Temp</b>
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-06-0140      **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:** 10.143      **Site Number:** 22T-011

**SiteID:** WWL-06-0140      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52398  
**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	81.3 %		ASTM D888-09(C)
DO	6.86 mg/L		ASTM D888-09(C)
pH (Field)	7.86 SU		EPA 150.2
Specific Conductance (Field)	543 umho/cm		SM2510B
Temperature	23.8 °C		SM2550B(2)
Turbidity (Hach)	13.3 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52398	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	920.8 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0140      **Sample Date:** 8/8/2022      **IDEM Sample #:** AB52538  
**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	100 %		ASTM D888-09(C)
DO	7.85 mg/L		ASTM D888-09(C)
pH (Field)	7.89 SU		EPA 150.2
Specific Conductance (Field)	702 umho/cm		SM2510B
Temperature	27.7 °C		SM2550B(2)
Turbidity (Hach)	9.42 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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

Lab ID #: AB52538	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	547.5 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0140      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52568  
**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	76.1 %		ASTM D888-09(C)
DO	6.64 mg/L		ASTM D888-09(C)
pH (Field)	7.9 SU		EPA 150.2
Specific Conductance (Field)	764 umho/cm		SM2510B
Temperature	22 °C		SM2550B(2)
Turbidity (Hach)	17.2 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: AB52568	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	435.2 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0140      **Sample Date:** 8/23/2022      **IDEM Sample #:** AB52608  
**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	74 %		ASTM D888-09(C)
DO	6.43 mg/L		ASTM D888-09(C)
pH (Field)	7.9 SU		EPA 150.2
Specific Conductance (Field)	814 umho/cm		SM2510B
Temperature	22.2 °C		SM2550B(2)
Turbidity (Hach)	26.4 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

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

Lab ID #: 50324319013	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	199 mg/L	10	SM2320B
Chloride	86 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	268 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	17.1 mg/L	3.6	SM2540D
Solids, Total (TS)	523 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	456 mg/L	10	SM2540C
Sulfate	53.9 mg/L	2.5	EPA 300.0
Calcium (Total)	67600 ug/L	1000	EPA 200.7
Magnesium (Total)	24100 ug/L	1000	EPA 200.7
COD	13.6 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	6.1 mg/L	0.5	EPA 353.2
Phosphorus, Total	0.35 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 #: AB52608	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	613.1 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0140      **Sample Date:** 8/30/2022      **IDEM Sample #:** AB51388  
**Water Flow Type** Run      **Water Appearance** Brown      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Sampled DS of bridge due to log jam US

Lab ID #:	Result	Reporting Limit	Method
% Sat	47.2 %		ASTM D888-09(C)
DO	3.96 mg/L		ASTM D888-09(C)
pH (Field)	7.56 SU		EPA 150.2
Specific Conductance (Field)	611 umho/cm		SM2510B
Temperature	24 °C		SM2550B(2)
Turbidity (Hach)	20.2 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

**SiteID:** WWL-06-0140      **Sample Date:** 9/20/2022      **IDEM Sample #:** AB52866  
**Water Flow Type**    Glide      **Water Appearance**    Brown      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	65.3 %		ASTM D888-09(C)
DO	5.59 mg/L		ASTM D888-09(C)
pH (Field)	7.71 SU		EPA 150.2
Specific Conductance (Field)	786 umho/cm		SM2510B
Temperature	23 °C		SM2550B(2)
Turbidity (Hach)	17.7 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #: 50326553013</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	157 mg/L	10	SM2320B
Chloride	82.8 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	199 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	14.8 mg/L	5	SM2540D
Solids, Total (TS)	349 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	359 mg/L	10	SM2540C
Sulfate	40.4 mg/L	2.5	EPA 300.0
Calcium (Total)	52300 ug/L	1000	EPA 200.7
Magnesium (Total)	16700 ug/L	1000	EPA 200.7
COD	17.9 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	3.4 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.41 mg/L	0.05	EPA 365.1
TKN	0.86 mg/L	0.5	EPA 351.2
TOC	5.3 mg/L	1	SM5310C

<b>Lab ID #: AB52866</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	214.2 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0140      **Sample Date:** 10/18/2022      **IDEM Sample #:** AB53160  
**Water Flow Type** Run      **Water Appearance** Murky      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	53.1 %		ASTM D888-09(C)
DO	6.17 mg/L		ASTM D888-09(C)
pH (Field)	7.75 SU		EPA 150.2
Specific Conductance (Field)	1077 umho/cm		SM2510B
Temperature	8.5 °C		SM2550B(2)
Turbidity (Hach)	20.2 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #:</b> 50328901005	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	225 mg/L	10	SM2320B
Chloride	129 mg/L	25	EPA 300.0
Hardness (as CaCO3)	306 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	15.1 mg/L	2.5	SM2540D
Solids, Total (TS)	661 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	594 mg/L	10	SM2540C
Sulfate	63.1 mg/L	2.5	EPA 300.0
Calcium (Total)	79600 ug/L	1000	EPA 200.7
Magnesium (Total)	26100 ug/L	1000	EPA 200.7
COD	21.6 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	12.8 mg/L	1	EPA 353.2
Phosphorus, Total	0.54 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	5.2 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53160	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	196.8 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> Sky Conditions	<b>WD</b> Wind Direction	<b>WS</b> Wind Strength	<b>AT</b> 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-06-0141      **USGS Hydrologic Unit:** 051202020602  
**Stream Name:** Beehunter Ditch Tributary      **County:** Greene  
**Description:** SR 54      **Latitude:** 39 2 13.44707      **Longitude:** -87 9 8.02919  
**Drainage:** 3.705      **Site Number:** 22T-012

**SiteID:** WWL-06-0141      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52401  
**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	88.8 %		ASTM D888-09(C)
DO	7.4 mg/L		ASTM D888-09(C)
pH (Field)	7.94 SU		EPA 150.2
Specific Conductance (Field)	572 umho/cm		SM2510B
Temperature	24.4 °C		SM2550B(2)
Turbidity (Hach)	7.59 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52401	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	980.4 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0141      **Sample Date:** 8/8/2022      **IDEM Sample #:** AB52541  
**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	90.9 %		ASTM D888-09(C)
DO	7.18 mg/L		ASTM D888-09(C)
pH (Field)	7.95 SU		EPA 150.2
Specific Conductance (Field)	653 umho/cm		SM2510B
Temperature	27.4 °C		SM2550B(2)
Turbidity (Hach)	5.8 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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

Lab ID #: AB52541	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	1119.9 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0141      **Sample Date:** 8/15/2022      **IDEM Sample #:** AB51389  
**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 #:	Result	Reporting Limit	Method
% Sat	87.2 %		ASTM D888-09(C)
DO	7.53 mg/L		ASTM D888-09(C)
pH (Field)	8 SU		EPA 150.2
Specific Conductance (Field)	624 umho/cm		SM2510B
Temperature	22.6 °C		SM2550B(2)
Turbidity (Hach)	5.8 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

**SiteID:** WWL-06-0141      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB52571  
**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	97.3 %		ASTM D888-09(C)
DO	8.17 mg/L		ASTM D888-09(C)
pH (Field)	7.91 SU		EPA 150.2
Specific Conductance (Field)	602 umho/cm		SM2510B
Temperature	24.1 °C		SM2550B(2)
Turbidity (Hach)	20.5 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52571	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	1046.2 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0141      Sample Date: 8/23/2022      IDEM Sample #: AB52611  
 Water Flow Type Pool      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	101.2 %		ASTM D888-09(C)
DO	8.46 mg/L		ASTM D888-09(C)
pH (Field)	8.21 SU		EPA 150.2
Specific Conductance (Field)	658 umho/cm		SM2510B
Temperature	24.3 °C		SM2550B(2)
Turbidity (Hach)	3.24 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50324319016	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	230 mg/L	10	SM2320B
Chloride	8.9 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	338 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	2.7 mg/L	2.5	SM2540D
Solids, Total (TS)	426 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	398 mg/L	10	SM2540C
Sulfate	105 mg/L	2.5	EPA 300.0
Calcium (Total)	73600 ug/L	1000	EPA 200.7
Magnesium (Total)	37500 ug/L	1000	EPA 200.7
COD	13.6 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.28 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.3 mg/L	1	SM5310C

Lab ID #: AB52611	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	307.6 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0141      Sample Date: 9/20/2022      IDEM Sample #: AB52869  
 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	85.6 %		ASTM D888-09(C)
DO	7.13 mg/L		ASTM D888-09(C)
pH (Field)	7.96 SU		EPA 150.2
Specific Conductance (Field)	669 umho/cm		SM2510B
Temperature	24.5 °C		SM2550B(2)
Turbidity (Hach)	0.11 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50326553016	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	256 mg/L	10	SM2320B
Chloride	9.8 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	371 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	415 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	417 mg/L	10	SM2540C
Sulfate	113 mg/L	2.5	EPA 300.0
Calcium (Total)	79900 ug/L	1000	EPA 200.7
Magnesium (Total)	41700 ug/L	1000	EPA 200.7
COD	13.1 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.23 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	3.2 mg/L	1	SM5310C

Lab ID #: AB52869	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	365.4 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0141      **Sample Date:** 10/18/2022      **IDEM Sample #:** AB53163  
**Water Flow Type** Pool      **Water Appearance** Brown      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Sheen on surface

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	77.4 %		ASTM D888-09(C)
DO	9.02 mg/L		ASTM D888-09(C)
pH (Field)	7.99 SU		EPA 150.2
Specific Conductance (Field)	779 umho/cm		SM2510B
Temperature	8.6 °C		SM2550B(2)
Turbidity (Hach)	9.93 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #:</b> 50328901008	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	292 mg/L	10	SM2320B
Chloride	9.8 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	412 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	4.3 mg/L	2.5	SM2540D
Solids, Total (TS)	514 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	471 mg/L	10	SM2540C
Sulfate	135 mg/L	2.5	EPA 300.0
Calcium (Total)	85900 ug/L	1000	EPA 200.7
Magnesium (Total)	47900 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	0.23 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	4.5 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53163	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	980.4 MPN/100mL	1	SM9223B
E. coli	81.3 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> Sky Conditions	<b>WD</b> Wind Direction	<b>WS</b> Wind Strength	<b>AT</b> Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	0 - Calm
2 - Scattered	9 - Snow	1 - East (90 Degrees)	1 - Light
3 - Partly	10 - Sleet	18 - South (180 Degrees)	2 - Mod./Light
4 - Cloudy		27 - West (270 Degrees)	3 - Moderate
5 - Mist			4 - Mod./Strong
6 - Fog			5 - 76-85
7 - Shower			6 - > 86
			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:** 14.477      **Site Number:** 22T-013

**SiteID:** WWL-06-0142      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52399  
**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	94.8 %		ASTM D888-09(C)
DO	7.89 mg/L		ASTM D888-09(C)
pH (Field)	8.11 SU		EPA 150.2
Specific Conductance (Field)	711 umho/cm		SM2510B
Temperature	24.5 °C		SM2550B(2)
Turbidity (Hach)	11.4 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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

**SiteID:** WWL-06-0142      **Sample Date:** 8/8/2022      **IDEM Sample #:** AB52539  
**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	139.1 %		ASTM D888-09(C)
DO	10.44 mg/L		ASTM D888-09(C)
pH (Field)	8.24 SU		EPA 150.2
Specific Conductance (Field)	989 umho/cm		SM2510B
Temperature	30.3 °C		SM2550B(2)
Turbidity (Hach)	10.8 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method
AB52539			
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	133.4 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0142      **Sample Date:** 8/15/2022      **IDEM Sample #:** AB51390  
**Water Flow Type** Pool      **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	126.4 %		ASTM D888-09(C)
DO	10.7 mg/L		ASTM D888-09(C)
pH (Field)	8.34 SU		EPA 150.2
Specific Conductance (Field)	993 umho/cm		SM2510B
Temperature	23.6 °C		SM2550B(2)
Turbidity (Hach)	3.35 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	1 Lookup		Observation

**SiteID:** WWL-06-0142      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52569  
**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	96.5 %		ASTM D888-09(C)
DO	8.52 mg/L		ASTM D888-09(C)
pH (Field)	8.15 SU		EPA 150.2
Specific Conductance (Field)	1144 umho/cm		SM2510B
Temperature	21.3 °C		SM2550B(2)
Turbidity (Hach)	5.8 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #:	Result	Reporting Limit	Method
AB52569			
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	178.2 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0142      Sample Date: 8/23/2022      IDEM Sample #: AB52609  
 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	92.5 %		ASTM D888-09(C)
DO	8.14 mg/L		ASTM D888-09(C)
pH (Field)	8.12 SU		EPA 150.2
Specific Conductance (Field)	1207 umho/cm		SM2510B
Temperature	21.5 °C		SM2550B(2)
Turbidity (Hach)	12.7 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50324319014	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	322 mg/L	10	SM2320B
Chloride	5.6 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	487 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	10.2 mg/L	2.5	SM2540D
Solids, Total (TS)	864 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	804 mg/L	20	SM2540C
Sulfate	344 mg/L	25	EPA 300.0
Calcium (Total)	89200 ug/L	1000	EPA 200.7
Magnesium (Total)	64200 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	0.11 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.053 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.5 mg/L	1	SM5310C

Lab ID #: AB52609	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	133.3 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0142      **Sample Date:** 9/20/2022      **IDEM Sample #:** AB52867  
**Water Flow Type**    Glide      **Water Appearance**    Clear      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**    Oily sheen present

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	86.1 %		ASTM D888-09(C)
DO	7.46 mg/L		ASTM D888-09(C)
pH (Field)	8.21 SU		EPA 150.2
Specific Conductance (Field)	1212 umho/cm		SM2510B
Temperature	22.3 °C		SM2550B(2)
Turbidity (Hach)	16.2 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

<b>Lab ID #: 50326553014</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	366 mg/L	10	SM2320B
Chloride	6.7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	522 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	11.2 mg/L	2.5	SM2540D
Solids, Total (TS)	840 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	802 mg/L	20	SM2540C
Sulfate	332 mg/L	25	EPA 300.0
Calcium (Total)	93000 ug/L	1000	EPA 200.7
Magnesium (Total)	70500 ug/L	1000	EPA 200.7
COD	13.4 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	0.058 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.6 mg/L	1	SM5310C

<b>Lab ID #: AB52867</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	770.1 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0142

Sample Date: 10/18/2022

IDEM Sample #: AB53161

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 #:	Result	Reporting Limit	Method
% Sat	85.8 %		ASTM D888-09(C)
DO	10.47 mg/L		ASTM D888-09(C)
pH (Field)	8.11 SU		EPA 150.2
Specific Conductance (Field)	1397 umho/cm		SM2510B
Temperature	6.6 °C		SM2550B(2)
Turbidity (Hach)	24.4 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50328901006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	413 mg/L	10	SM2320B
Chloride	6.4 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	578 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	7.1 mg/L	2.5	SM2540D
Solids, Total (TS)	1000 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	936 mg/L	20	SM2540C
Sulfate	386 mg/L	25	EPA 300.0
Calcium (Total)	98700 ug/L	1000	EPA 200.7
Magnesium (Total)	80600 ug/L	1000	EPA 200.7
COD	13.9 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	5.4 mg/L	1	SM5310C

Lab ID #: AB53161	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	122.3 MPN/100mL	1	SM9223B

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

**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:** 10.037      **Site Number:** 22T-014

**SiteID:** WWL-06-0143      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52400  
**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	90.3 %		ASTM D888-09(C)
DO	7.69 mg/L		ASTM D888-09(C)
pH (Field)	8.06 SU		EPA 150.2
Specific Conductance (Field)	679 umho/cm		SM2510B
Temperature	24.3 °C		SM2550B(2)
Turbidity (Hach)	6.75 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52400	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	344.8 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0143      **Sample Date:** 8/8/2022      **IDEM Sample #:** AB52540  
**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	90.1 %		ASTM D888-09(C)
DO	7.16 mg/L		ASTM D888-09(C)
pH (Field)	8.09 SU		EPA 150.2
Specific Conductance (Field)	863 umho/cm		SM2510B
Temperature	27 °C		SM2550B(2)
Turbidity (Hach)	6.6 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method	
AB52540	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	387.3 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0143      **Sample Date:** 8/15/2022      **IDEM Sample #:** AB51391  
**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 #:	Result	Reporting Limit	Method
	% Sat	87.5 %	ASTM D888-09(C)
	DO	7.56 mg/L	ASTM D888-09(C)
	pH (Field)	8.15 SU	EPA 150.2
	Specific Conductance (Field)	837 umho/cm	SM2510B
	Temperature	22.5 °C	SM2550B(2)
	Turbidity (Hach)	5.98 NTU	EPA 180.1
	Air Temp	4 Lookup	Observation
	Sky Conditions	4 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	0 Lookup	Observation

**SiteID:** WWL-06-0143      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52570  
**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	87.5 %	ASTM D888-09(C)
	DO	7.67 mg/L	ASTM D888-09(C)
	pH (Field)	8.25 SU	EPA 150.2
	Specific Conductance (Field)	859 umho/cm	SM2510B
	Temperature	21.8 °C	SM2550B(2)
	Turbidity (Hach)	4.82 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	1 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	2 Lookup	Observation

Lab ID #:	Result	Reporting Limit	Method	
AB52570	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	275.5 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0143      Sample Date: 8/23/2022      IDEM Sample #: AB52610  
 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	87.8 %		ASTM D888-09(C)
DO	7.5 mg/L		ASTM D888-09(C)
pH (Field)	8.35 SU		EPA 150.2
Specific Conductance (Field)	876 umho/cm		SM2510B
Temperature	23.1 °C		SM2550B(2)
Turbidity (Hach)	9.52 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50324319015	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	268 mg/L	10	SM2320B
Chloride	4.9 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	488 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5.8 mg/L	2.5	SM2540D
Solids, Total (TS)	631 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	568 mg/L	10	SM2540C
Sulfate	213 mg/L	25	EPA 300.0
Calcium (Total)	78000 ug/L	1000	EPA 200.7
Magnesium (Total)	71300 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	0.12 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	3.4 mg/L	1	SM5310C

Lab ID #: AB52610	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	325.5 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0143      **Sample Date:** 9/20/2022      **IDEM Sample #:** AB52868  
**Water Flow Type**    Glide      **Water Appearance**    Clear      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	85.1 %		ASTM D888-09(C)
DO	7.19 mg/L		ASTM D888-09(C)
pH (Field)	8.17 SU		EPA 150.2
Specific Conductance (Field)	957 umho/cm		SM2510B
Temperature	23.7 °C		SM2550B(2)
Turbidity (Hach)	6.64 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #: 50326553015</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	342 mg/L	10	SM2320B
Chloride	5.1 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	563 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	5.1 mg/L	2.5	SM2540D
Solids, Total (TS)	666 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	615 mg/L	10	SM2540C
Sulfate	239 mg/L	2.5	EPA 300.0
Calcium (Total)	82000 ug/L	1000	EPA 200.7
Magnesium (Total)	86900 ug/L	1000	EPA 200.7
COD	12.5 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	0.13 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.1 mg/L	1	SM5310C

<b>Lab ID #: AB52868</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	195.6 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0143      **Sample Date:** 10/18/2022      **IDEM Sample #:** AB53162  
**Water Flow Type** Pool      **Water Appearance** Brown      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Sheen on surface

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	73.5 %		ASTM D888-09(C)
DO	8.69 mg/L		ASTM D888-09(C)
pH (Field)	8.07 SU		EPA 150.2
Specific Conductance (Field)	1092 umho/cm		SM2510B
Temperature	7.9 °C		SM2550B(2)
Turbidity (Hach)	20.8 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #:</b> 50328901007	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	374 mg/L	10	SM2320B
Chloride	5 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	583 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8.5 mg/L	2.5	SM2540D
Solids, Total (TS)	795 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	724 mg/L	10	SM2540C
Sulfate	263 mg/L	25	EPA 300.0
Calcium (Total)	86600 ug/L	1000	EPA 200.7
Magnesium (Total)	89000 ug/L	1000	EPA 200.7
COD	13.5 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	4.9 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53162	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	1119.9 MPN/100mL	1	SM9223B
E. coli	48 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> <b>Sky Conditions</b>	<b>WD</b> <b>Wind Direction</b>	<b>WS</b> <b>Wind Strength</b>	<b>AT</b> <b>Air Temp</b>
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:** 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:** 54.305      **Site Number:** 22T-015

**SiteID:** WWL060-0001      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52415  
**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	63.8 %		ASTM D888-09(C)
DO	5.5 mg/L		ASTM D888-09(C)
pH (Field)	7.67 SU		EPA 150.2
Specific Conductance (Field)	1036 umho/cm		SM2510B
Temperature	24.2 °C		SM2550B(2)
Turbidity (Hach)	38.1 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: AB52415	Result	Reporting Limit	Method
E. coli	248.9 MPN/100mL	1	SM9223B

Lab ID #: AB52415b	Result	Reporting Limit	Method
Coliforms (Total)	15390 MPN/100mL	100	SM9223B

**SiteID:** WWL060-0001      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52555  
**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	61.7 %		ASTM D888-09(C)
DO	4.91 mg/L		ASTM D888-09(C)
pH (Field)	7.64 SU		EPA 150.2
Specific Conductance (Field)	1247 umho/cm		SM2510B
Temperature	26.9 °C		SM2550B(2)
Turbidity (Hach)	47 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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

Lab ID #: AB52555	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	410.6 MPN/100mL	1	SM9223B

**SiteID:** WWL060-0001      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB52585  
**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	66.2 %		ASTM D888-09(C)
DO	5.68 mg/L		ASTM D888-09(C)
pH (Field)	7.77 SU		EPA 150.2
Specific Conductance (Field)	1089 umho/cm		SM2510B
Temperature	22.8 °C		SM2550B(2)
Turbidity (Hach)	34.2 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: AB52585	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	410.6 MPN/100mL	1	SM9223B

**SiteID:** WWL060-0001      **Sample Date:** 8/22/2022      **IDEM Sample #:** AB52625  
**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	72 %		ASTM D888-09(C)
DO	5.97 mg/L		ASTM D888-09(C)
pH (Field)	7.86 SU		EPA 150.2
Specific Conductance (Field)	1222 umho/cm		SM2510B
Temperature	24.6 °C		SM2550B(2)
Turbidity (Hach)	36.4 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

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

Lab ID #: 50324319008	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	155 mg/L	10	SM2320B
Chloride	6.6 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	610 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	41 mg/L	5	SM2540D
Solids, Total (TS)	1010 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	852 mg/L	20	SM2540C
Sulfate	521 mg/L	25	EPA 300.0
Calcium (Total)	134000 ug/L	1000	EPA 200.7
Magnesium (Total)	67200 ug/L	1000	EPA 200.7
COD	16.7 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.11 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	0.64 mg/L	0.5	EPA 351.2
TOC	4.9 mg/L	1	SM5310C

Lab ID #: AB52625	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	151.5 MPN/100mL	1	SM9223B

**SiteID:** WWL060-0001      **Sample Date:** 8/30/2022      **IDEM Sample #:** AB51392  
**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	54.2 %		ASTM D888-09(C)
DO	4.43 mg/L		ASTM D888-09(C)
pH (Field)	7.69 SU		EPA 150.2
Specific Conductance (Field)	1313 umho/cm		SM2510B
Temperature	25.3 °C		SM2550B(2)
Turbidity (Hach)	51.4 NTU		EPA 180.1

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

**SiteID:** WWL060-0001      **Sample Date:** 9/20/2022      **IDEM Sample #:** AB52883  
**Water Flow Type**    Glide      **Water Appearance**    Murky      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	61.3 %		ASTM D888-09(C)
DO	5.18 mg/L		ASTM D888-09(C)
pH (Field)	7.61 SU		EPA 150.2
Specific Conductance (Field)	1404 umho/cm		SM2510B
Temperature	23.5 °C		SM2550B(2)
Turbidity (Hach)	22.8 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

<b>Lab ID #: 50326553008</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	174 mg/L	10	SM2320B
Chloride	6.8 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	755 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	27 mg/L	5	SM2540D
Solids, Total (TS)	1200 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1120 mg/L	20	SM2540C
Sulfate	625 mg/L	25	EPA 300.0
Calcium (Total)	165000 ug/L	1000	EPA 200.7
Magnesium (Total)	83200 ug/L	1000	EPA 200.7
COD	16 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	0.065 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	4.1 mg/L	1	SM5310C

<b>Lab ID #: AB52883</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	135.4 MPN/100mL	1	SM9223B

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

SiteID: WWL060-0001

Sample Date: 10/18/2022

IDEM Sample #: AB53177

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 #:	Result	Reporting Limit	Method
% Sat	75.2 %		ASTM D888-09(C)
DO	8.96 mg/L		ASTM D888-09(C)
pH (Field)	7.71 SU		EPA 150.2
Specific Conductance (Field)	1803 umho/cm		SM2510B
Temperature	7.5 °C		SM2550B(2)
Turbidity (Hach)	12.4 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50328899008	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	194 mg/L	10	SM2320B
Chloride	6.7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	985 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	20.4 mg/L	2.5	SM2540D
Solids, Total (TS)	1590 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1480 mg/L	20	SM2540C
Sulfate	904 mg/L	25	EPA 300.0
Calcium (Total)	213000 ug/L	2000	EPA 200.7
Magnesium (Total)	110000 ug/L	1000	EPA 200.7
COD	30.7 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	0.09 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	4.2 mg/L	1	SM5310C

Lab ID #: AB53177	Result	Reporting Limit	Method
Coliforms (Total)	1413.6 MPN/100mL	1	SM9223B
E. coli	48 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 - < 32
2 - Scattered	9 - Snow	1 - East (90 Degrees)	1 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	2 - Mod./Light
4 - Cloudy		27 - West (270 Degrees)	3 - 46-60
5 - Mist			3 - Moderate
6 - Fog			4 - 61-75
7 - Shower			4 - Mod./Strong
			5 - 76-85
			5 - Strong
			6 - > 86
			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:** 18.719      **Site Number:** 22T-016

**SiteID:** WWL-06-0144      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52414  
**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	80.8 %		ASTM D888-09(C)
DO	6.83 mg/L		ASTM D888-09(C)
pH (Field)	7.81 SU		EPA 150.2
Specific Conductance (Field)	1368 umho/cm		SM2510B
Temperature	23.6 °C		SM2550B(2)
Turbidity (Hach)	20.9 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52414	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	285.1 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0144      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52554  
**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	76.3 %		ASTM D888-09(C)
DO	6.12 mg/L		ASTM D888-09(C)
pH (Field)	7.85 SU		EPA 150.2
Specific Conductance (Field)	1417 umho/cm		SM2510B
Temperature	26.4 °C		SM2550B(2)
Turbidity (Hach)	19.7 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method
AB52554			
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	461.1 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0144      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB52584  
**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	122.9 %		ASTM D888-09(C)
DO	10.1 mg/L		ASTM D888-09(C)
pH (Field)	8.1 SU		EPA 150.2
Specific Conductance (Field)	1290 umho/cm		SM2510B
Temperature	25.3 °C		SM2550B(2)
Turbidity (Hach)	9.71 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #:	Result	Reporting Limit	Method
AB52584			
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	98.5 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0144      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB51393  
**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	151.2 %		ASTM D888-09(C)
DO	11.95 mg/L		ASTM D888-09(C)
pH (Field)	8.37 SU		EPA 150.2
Specific Conductance (Field)	988 umho/cm		SM2510B
Temperature	27.3 °C		SM2550B(2)
Turbidity (Hach)	10.8 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

**SiteID:** WWL-06-0144      **Sample Date:** 8/22/2022      **IDEM Sample #:** AB52624  
**Water Flow Type**    Glide      **Water Appearance**    Murky      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	90.8 %		ASTM D888-09(C)
DO	7.35 mg/L		ASTM D888-09(C)
pH (Field)	8.01 SU		EPA 150.2
Specific Conductance (Field)	1410 umho/cm		SM2510B
Temperature	26 °C		SM2550B(2)
Turbidity (Hach)	18.9 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #: 50324319007</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	157 mg/L	10	SM2320B
Chloride	6.2 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	689 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	31 mg/L	3.6	SM2540D
Solids, Total (TS)	1160 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1010 mg/L	20	SM2540C
Sulfate	673 mg/L	25	EPA 300.0
Calcium (Total)	150000 ug/L	1000	EPA 200.7
Magnesium (Total)	76500 ug/L	1000	EPA 200.7
COD	17.8 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	0.092 mg/L	0.05	EPA 365.1
TKN	0.61 mg/L	0.5	EPA 351.2
TOC	5 mg/L	1	SM5310C

<b>Lab ID #: AB52624</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	107.6 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0144      **Sample Date:** 9/20/2022      **IDEM Sample #:** AB52882  
**Water Flow Type**    Glide      **Water Appearance**    Clear      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	73 %		ASTM D888-09(C)
DO	6.12 mg/L		ASTM D888-09(C)
pH (Field)	7.87 SU		EPA 150.2
Specific Conductance (Field)	1764 umho/cm		SM2510B
Temperature	24.2 °C		SM2550B(2)
Turbidity (Hach)	28 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #: 50326553007</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	169 mg/L	10	SM2320B
Chloride	5.7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	963 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	27.5 mg/L	4.2	SM2540D
Solids, Total (TS)	1580 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1470 mg/L	20	SM2540C
Sulfate	862 mg/L	25	EPA 300.0
Calcium (Total)	211000 ug/L	2000	EPA 200.7
Magnesium (Total)	106000 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	< 0.1 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.075 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.7 mg/L	1	SM5310C

<b>Lab ID #: AB52882</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	209.8 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0144      **Sample Date:** 10/18/2022      **IDEM Sample #:** AB53176  
**Water Flow Type**    Glide      **Water Appearance**    Clear      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	81.5 %		ASTM D888-09(C)
DO	9.82 mg/L		ASTM D888-09(C)
pH (Field)	7.65 SU		EPA 150.2
Specific Conductance (Field)	1999 umho/cm		SM2510B
Temperature	6.9 °C		SM2550B(2)
Turbidity (Hach)	6.69 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	3 Lookup		Observation

<b>Lab ID #:</b> 50328899007	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	205 mg/L	10	SM2320B
Chloride	5.8 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1120 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	6.9 mg/L	2.5	SM2540D
Solids, Total (TS)	1830 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1700 mg/L	20	SM2540C
Sulfate	1080 mg/L	25	EPA 300.0
Calcium (Total)	242000 ug/L	2000	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	3.5 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53176	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	1119.9 MPN/100mL	1	SM9223B
E. coli	75.4 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> <b>Sky Conditions</b>	<b>WD</b> <b>Wind Direction</b>	<b>WS</b> <b>Wind Strength</b>	<b>AT</b> <b>Air Temp</b>
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:** Brewer Ditch Tributary      **County:** Greene  
**Description:** CR 1525 West      **Latitude:** 38 59 2.23969      **Longitude:** -87 13 47.48311  
**Drainage:** 2.922      **Site Number:** 22T-017

**SiteID:** WWL-06-0145      **Sample Date:** 8/2/2022      **IDEM Sample #:** AB52411  
**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	86.1 %		ASTM D888-09(C)
DO	7.03 mg/L		ASTM D888-09(C)
pH (Field)	7.57 SU		EPA 150.2
Specific Conductance (Field)	1737 umho/cm		SM2510B
Temperature	25.4 °C		SM2550B(2)
Turbidity (Hach)	5.24 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: AB52411	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	37.9 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0145      **Sample Date:** 8/8/2022      **IDEM Sample #:** AB52551  
**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	102.9 %		ASTM D888-09(C)
DO	7.75 mg/L		ASTM D888-09(C)
pH (Field)	7.83 SU		EPA 150.2
Specific Conductance (Field)	1686 umho/cm		SM2510B
Temperature	29.9 °C		SM2550B(2)
Turbidity (Hach)	3.97 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method
AB52551			
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	43.1 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0145      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB52581  
**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	115.7 %		ASTM D888-09(C)
DO	9.23 mg/L		ASTM D888-09(C)
pH (Field)	7.84 SU		EPA 150.2
Specific Conductance (Field)	1746 umho/cm		SM2510B
Temperature	26.6 °C		SM2550B(2)
Turbidity (Hach)	11 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #:	Result	Reporting Limit	Method
AB52581			
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	15.3 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0145      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB51394  
**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	114 %		ASTM D888-09(C)
DO	9 mg/L		ASTM D888-09(C)
pH (Field)	7.93 SU		EPA 150.2
Specific Conductance (Field)	1694 umho/cm		SM2510B
Temperature	27.3 °C		SM2550B(2)
Turbidity (Hach)	4.48 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

**SiteID:** WWL-06-0145      **Sample Date:** 8/22/2022      **IDEM Sample #:** AB52621  
**Water Flow Type**    Glide      **Water Appearance**    Clear      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	126.5 %		ASTM D888-09(C)
DO	9.99 mg/L		ASTM D888-09(C)
pH (Field)	8.08 SU		EPA 150.2
Specific Conductance (Field)	1935 umho/cm		SM2510B
Temperature	27.2 °C		SM2550B(2)
Turbidity (Hach)	3.69 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #: 50324319004</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	153 mg/L	10	SM2320B
Chloride	2.9 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1230 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	4.2 mg/L	2.5	SM2540D
Solids, Total (TS)	1850 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1650 mg/L	20	SM2540C
Sulfate	1070 mg/L	25	EPA 300.0
Calcium (Total)	271000 ug/L	2000	EPA 200.7
Magnesium (Total)	135000 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	< 0.1 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 mg/L	1	SM5310C

<b>Lab ID #: AB52621</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	75.4 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0145      Sample Date: 9/19/2022      IDEM Sample #: AB52879  
 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	129.4 %		ASTM D888-09(C)
DO	10.47 mg/L		ASTM D888-09(C)
pH (Field)	8.01 SU		EPA 150.2
Specific Conductance (Field)	2212 umho/cm		SM2510B
Temperature	25.8 °C		SM2550B(2)
Turbidity (Hach)	2.69 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50326553004	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	186 mg/L	10	SM2320B
Chloride	2.3 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1530 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	3 mg/L	2.5	SM2540D
Solids, Total (TS)	2230 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	2030 mg/L	20	SM2540C
Sulfate	1310 mg/L	25	EPA 300.0
Calcium (Total)	346000 ug/L	2000	EPA 200.7
Magnesium (Total)	162000 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	< 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	2.3 mg/L	1	SM5310C

Lab ID #: AB52879	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	307.6 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0145      **Sample Date:** 10/17/2022      **IDEM Sample #:** AB53173  
**Water Flow Type**    Glide      **Water Appearance**    Clear      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	106.3 %		ASTM D888-09(C)
DO	11.26 mg/L		ASTM D888-09(C)
pH (Field)	7.93 SU		EPA 150.2
Specific Conductance (Field)	2446 umho/cm		SM2510B
Temperature	12.4 °C		SM2550B(2)
Turbidity (Hach)	6.29 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	3 Lookup		Observation

<b>Lab ID #:</b> 50328899004	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	204 mg/L	10	SM2320B
Chloride	2.2 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1580 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	18.7 mg/L	2.5	SM2540D
Solids, Total (TS)	2470 mg/L	40	SM2540B
Solids, Total Dissolved (TDS)	2250 mg/L	40	SM2540C
Sulfate	1450 mg/L	250	EPA 300.0
Calcium (Total)	354000 ug/L	2000	EPA 200.7
Magnesium (Total)	168000 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	2.1 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53173	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	613.1 MPN/100mL	1	SM9223B
E. coli	58.3 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> Sky Conditions	<b>WD</b> Wind Direction	<b>WS</b> Wind Strength	<b>AT</b> 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-06-0121      **USGS Hydrologic Unit:** 051202020603  
**Stream Name:** Spencer Creek      **County:** Sullivan  
**Description:** SR 159      **Latitude:** 38 58 37.45717      **Longitude:** -87 15 36.36725  
**Drainage:** 4.074      **Site Number:** 22T-018

**SiteID:** WWL-06-0121      **Sample Date:** 8/2/2022      **IDEM Sample #:** AB52412  
**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	87.4 %		ASTM D888-09(C)
DO	7.76 mg/L		ASTM D888-09(C)
pH (Field)	7.55 SU		EPA 150.2
Specific Conductance (Field)	1242 umho/cm		SM2510B
Temperature	21.1 °C		SM2550B(2)
Turbidity (Hach)	3.95 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #:	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	31.5 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0121      **Sample Date:** 8/8/2022      **IDEM Sample #:** AB52552  
**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	94.5 %		ASTM D888-09(C)
DO	8.01 mg/L		ASTM D888-09(C)
pH (Field)	7.8 SU		EPA 150.2
Specific Conductance (Field)	1228 umho/cm		SM2510B
Temperature	23.8 °C		SM2550B(2)
Turbidity (Hach)	3.08 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

Lab ID #: AB52552	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	21.3 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0121      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB51395  
**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 #:	Result	Reporting Limit	Method
% Sat	91.4 %		ASTM D888-09(C)
DO	8.08 mg/L		ASTM D888-09(C)
pH (Field)	7.77 SU		EPA 150.2
Specific Conductance (Field)	1233 umho/cm		SM2510B
Temperature	21.3 °C		SM2550B(2)
Turbidity (Hach)	5.66 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

**SiteID:** WWL-06-0121      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB52582  
**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	93.3 %		ASTM D888-09(C)
DO	8.12 mg/L		ASTM D888-09(C)
pH (Field)	7.81 SU		EPA 150.2
Specific Conductance (Field)	1244 umho/cm		SM2510B
Temperature	22 °C		SM2550B(2)
Turbidity (Hach)	11 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52582	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	12 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0121      **Sample Date:** 8/22/2022      **IDEM Sample #:** AB52622  
**Water Flow Type**    Glide      **Water Appearance**    Clear      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	91.7 %		ASTM D888-09(C)
DO	7.89 mg/L		ASTM D888-09(C)
pH (Field)	7.94 SU		EPA 150.2
Specific Conductance (Field)	1309 umho/cm		SM2510B
Temperature	22.7 °C		SM2550B(2)
Turbidity (Hach)	2.82 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #: 50324319005</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	150 mg/L	10	SM2320B
Chloride	7.2 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	699 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1040 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	932 mg/L	20	SM2540C
Sulfate	594 mg/L	25	EPA 300.0
Calcium (Total)	135000 ug/L	1000	EPA 200.7
Magnesium (Total)	88100 ug/L	1000	EPA 200.7
COD	11.2 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 mg/L	1	SM5310C

<b>Lab ID #: AB52622</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	10.8 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0121      Sample Date: 9/19/2022      IDEM Sample #: AB52880  
 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	90.1 %		ASTM D888-09(C)
DO	7.74 mg/L		ASTM D888-09(C)
pH (Field)	7.83 SU		EPA 150.2
Specific Conductance (Field)	1319 umho/cm		SM2510B
Temperature	22.7 °C		SM2550B(2)
Turbidity (Hach)	11.2 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50326553005	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	161 mg/L	10	SM2320B
Chloride	11.5 mg/L	2.5	EPA 300.0
Hardness (as CaCO3)	576 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1020 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	966 mg/L	20	SM2540C
Sulfate	536 mg/L	25	EPA 300.0
Calcium (Total)	112000 ug/L	1000	EPA 200.7
Magnesium (Total)	72000 ug/L	1000	EPA 200.7
COD	10.4 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.47 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 #: AB52880	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	235.9 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0121      **Sample Date:** 10/17/2022      **IDEM Sample #:** AB53174  
**Water Flow Type** Pool      **Water Appearance** Clear      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	82.1 %		ASTM D888-09(C)
DO	9.06 mg/L		ASTM D888-09(C)
pH (Field)	7.66 SU		EPA 150.2
Specific Conductance (Field)	1427 umho/cm		SM2510B
Temperature	10.8 °C		SM2550B(2)
Turbidity (Hach)	3.88 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	3 Lookup		Observation

<b>Lab ID #:</b> 50328899005	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	179 mg/L	10	SM2320B
Chloride	7.7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	725 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1180 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1090 mg/L	20	SM2540C
Sulfate	643 mg/L	25	EPA 300.0
Calcium (Total)	135000 ug/L	1000	EPA 200.7
Magnesium (Total)	94400 ug/L	1000	EPA 200.7
COD	14.1 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	2.9 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53174	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	866.4 MPN/100mL	1	SM9223B
E. coli	6.2 MPN/100mL	1	SM9223B

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

**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:** 28.896      **Site Number:** 22T-019

**SiteID:** WWL-06-0146      **Sample Date:** 8/2/2022      **IDEM Sample #:** AB52413  
**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	66 %		ASTM D888-09(C)
DO	5.5 mg/L		ASTM D888-09(C)
pH (Field)	7.75 SU		EPA 150.2
Specific Conductance (Field)	918 umho/cm		SM2510B
Temperature	24.4 °C		SM2550B(2)
Turbidity (Hach)	38.1 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: AB52413	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	648.8 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0146      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52553  
**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	65.2 %		ASTM D888-09(C)
DO	5.24 mg/L		ASTM D888-09(C)
pH (Field)	7.59 SU		EPA 150.2
Specific Conductance (Field)	1625 umho/cm		SM2510B
Temperature	26.3 °C		SM2550B(2)
Turbidity (Hach)	59.3 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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

Lab ID #: AB52553b	Result	Reporting Limit	Method
Coliforms (Total)	10460 MPN/100mL	100	SM9223B
E. coli	1710 MPN/100mL	100	SM9223B

**SiteID:** WWL-06-0146      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB52583  
**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	75.6 %		ASTM D888-09(C)
DO	6.28 mg/L		ASTM D888-09(C)
pH (Field)	7.8 SU		EPA 150.2
Specific Conductance (Field)	1210 umho/cm		SM2510B
Temperature	24.5 °C		SM2550B(2)
Turbidity (Hach)	22.4 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: AB52583	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	49.7 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0146      **Sample Date:** 8/17/2022      **IDEM Sample #:** AB51396  
**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	76.4 %		ASTM D888-09(C)
DO	6.38 mg/L		ASTM D888-09(C)
pH (Field)	7.76 SU		EPA 150.2
Specific Conductance (Field)	1189 umho/cm		SM2510B
Temperature	24.3 °C		SM2550B(2)
Turbidity (Hach)	21.3 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

SiteID: WWL-06-0146      Sample Date: 8/22/2022      IDEM Sample #: AB52623  
 Water Flow Type: Glide      Water Appearance: Green      Water Depth:  Algae?  
 Water Flow (cf/sec):  Flow Estimated?       Aquatic Life?      Canopy Closed %: 0-20%  
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	75.3 %		ASTM D888-09(C)
DO	6.2 mg/L		ASTM D888-09(C)
pH (Field)	7.95 SU		EPA 150.2
Specific Conductance (Field)	1302 umho/cm		SM2510B
Temperature	24.9 °C		SM2550B(2)
Turbidity (Hach)	19.4 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50324319006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	165 mg/L	10	SM2320B
Chloride	7.5 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	676 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	19.6 mg/L	3.3	SM2540D
Solids, Total (TS)	1050 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	932 mg/L	20	SM2540C
Sulfate	569 mg/L	25	EPA 300.0
Calcium (Total)	148000 ug/L	1000	EPA 200.7
Magnesium (Total)	74500 ug/L	1000	EPA 200.7
COD	13.2 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

Lab ID #: AB52623	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	52 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0146

Sample Date: 9/20/2022

IDEM Sample #: AB52881

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	61.1 %		ASTM D888-09(C)
DO	5.17 mg/L		ASTM D888-09(C)
pH (Field)	7.74 SU		EPA 150.2
Specific Conductance (Field)	1319 umho/cm		SM2510B
Temperature	23.5 °C		SM2550B(2)
Turbidity (Hach)	41.1 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50326553006	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	167 mg/L	10	SM2320B
Chloride	7.7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	682 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	40 mg/L	5	SM2540D
Solids, Total (TS)	1150 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1030 mg/L	20	SM2540C
Sulfate	569 mg/L	25	EPA 300.0
Calcium (Total)	149000 ug/L	1000	EPA 200.7
Magnesium (Total)	75400 ug/L	1000	EPA 200.7
COD	15.3 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	3.7 mg/L	1	SM5310C

Lab ID #: AB52881	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	111.2 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0146      **Sample Date:** 10/18/2022      **IDEM Sample #:** AB53175  
**Water Flow Type** Run      **Water Appearance** Brown      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	73 %		ASTM D888-09(C)
DO	8.63 mg/L		ASTM D888-09(C)
pH (Field)	7.72 SU		EPA 150.2
Specific Conductance (Field)	1674 umho/cm		SM2510B
Temperature	7.8 °C		SM2550B(2)
Turbidity (Hach)	13.3 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #:</b> 50328899006	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	174 mg/L	10	SM2320B
Chloride	7.8 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	915 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	6.8 mg/L	2.5	SM2540D
Solids, Total (TS)	1470 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1360 mg/L	20	SM2540C
Sulfate	840 mg/L	25	EPA 300.0
Calcium (Total)	202000 ug/L	2000	EPA 200.7
Magnesium (Total)	99800 ug/L	1000	EPA 200.7
COD	13.5 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	4.2 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53175	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	1553.1 MPN/100mL	1	SM9223B
E. coli	127.4 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> Sky Conditions	<b>WD</b> Wind Direction	<b>WS</b> Wind Strength	<b>AT</b> 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-06-0147      **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:** 1.61      **Site Number:** 22T-020

**SiteID:** WWL-06-0147      **Sample Date:** 8/3/2022      **IDEM Sample #:** AB52416  
**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	101.9 %		ASTM D888-09(C)
DO	8.46 mg/L		ASTM D888-09(C)
pH (Field)	7.95 SU		EPA 150.2
Specific Conductance (Field)	683 umho/cm		SM2510B
Temperature	24.6 °C		SM2550B(2)
Turbidity (Hach)	11.4 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52416	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	29.8 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0147      **Sample Date:** 8/9/2022      **IDEM Sample #:** AB52556  
**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	128.2 %		ASTM D888-09(C)
DO	10.22 mg/L		ASTM D888-09(C)
pH (Field)	8.11 SU		EPA 150.2
Specific Conductance (Field)	744 umho/cm		SM2510B
Temperature	26.9 °C		SM2550B(2)
Turbidity (Hach)	8.9 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

Lab ID #: AB52556	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	35.9 MPN/100mL	1	SM9223B

SiteID: WWL-06-0147      Sample Date: 8/15/2022      IDEM Sample #: AB51397

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	137.7 %		ASTM D888-09(C)
DO	10.92 mg/L		ASTM D888-09(C)
pH (Field)	8.59 SU		EPA 150.2
Specific Conductance (Field)	786 umho/cm		SM2510B
Temperature	27.2 °C		SM2550B(2)
Turbidity (Hach)	3.89 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

SiteID: WWL-06-0147      Sample Date: 8/16/2022      IDEM Sample #: AB52586

Water Flow Type: Stagnant      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	89.7 %		ASTM D888-09(C)
DO	7.38 mg/L		ASTM D888-09(C)
pH (Field)	7.5 SU		EPA 150.2
Specific Conductance (Field)	818 umho/cm		SM2510B
Temperature	25.1 °C		SM2550B(2)
Turbidity (Hach)	7.27 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52586	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	28.8 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0147      Sample Date: 8/23/2022      IDEM Sample #: AB52626  
 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	64.2 %		ASTM D888-09(C)
DO	5.94 mg/L		ASTM D888-09(C)
pH (Field)	7.59 SU		EPA 150.2
Specific Conductance (Field)	1019 umho/cm		SM2510B
Temperature	19 °C		SM2550B(2)
Turbidity (Hach)	11 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: 50324319009	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	54.2 mg/L	10	SM2320B
Chloride	8.9 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	548 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	4.8 mg/L	2.5	SM2540D
Solids, Total (TS)	828 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	752 mg/L	10	SM2540C
Sulfate	502 mg/L	25	EPA 300.0
Calcium (Total)	111000 ug/L	1000	EPA 200.7
Magnesium (Total)	66000 ug/L	1000	EPA 200.7
COD	12.8 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	2.4 mg/L	1	SM5310C

Lab ID #: AB52626	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	7.5 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0147      Sample Date: 9/20/2022      IDEM Sample #: AB52884  
 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	59.2 %		ASTM D888-09(C)
DO	5.27 mg/L		ASTM D888-09(C)
pH (Field)	4.71 SU		EPA 150.2
Specific Conductance (Field)	1799 umho/cm		SM2510B
Temperature	20.9 °C		SM2550B(2)
Turbidity (Hach)	2.34 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50326553009	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	< 10 mg/L	10	SM2320B
Chloride	7.3 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1030 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	3.3 mg/L	2.5	SM2540D
Solids, Total (TS)	1630 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1600 mg/L	20	SM2540C
Sulfate	1050 mg/L	25	EPA 300.0
Calcium (Total)	196000 ug/L	1000	EPA 200.7
Magnesium (Total)	131000 ug/L	1000	EPA 200.7
COD	< 10 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.85 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	1 mg/L	0.5	EPA 351.2
TOC	1.4 mg/L	1	SM5310C

Lab ID #: AB52884	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	10.9 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0147      **Sample Date:** 10/18/2022      **IDEM Sample #:** AB53178  
**Water Flow Type** Stagnant      **Water Appearance** Murky      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Sheen present. Mostly dry; small pool sample taken.

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	36.7 %		ASTM D888-09(C)
DO	4.56 mg/L		ASTM D888-09(C)
pH (Field)	7.43 SU		EPA 150.2
Specific Conductance (Field)	1962 umho/cm		SM2510B
Temperature	5.9 °C		SM2550B(2)
Turbidity (Hach)	35.7 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #:</b> 50328899009	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	59 mg/L	10	SM2320B
Chloride	9.5 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1150 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	15.3 mg/L	3.3	SM2540D
Solids, Total (TS)	1850 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1700 mg/L	20	SM2540C
Sulfate	1170 mg/L	25	EPA 300.0
Calcium (Total)	228000 ug/L	2000	EPA 200.7
Magnesium (Total)	141000 ug/L	1000	EPA 200.7
COD	12.9 mg/L	10	EPA 410.4
Nitrogen, Ammonia	0.31 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	0.94 mg/L	0.5	EPA 351.2
TOC	3.1 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53178	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	9.6 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> Sky Conditions	<b>WD</b> Wind Direction	<b>WS</b> Wind Strength	<b>AT</b> Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	0 - < 32
2 - Scattered	9 - Snow	1 - East (90 Degrees)	1 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	2 - Mod./Light
4 - Cloudy		27 - West (270 Degrees)	3 - 46-60
5 - Mist			4 - Moderate
6 - Fog			5 - Mod./Strong
7 - Shower			6 - 76-85
			6 - > 86
			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:** 21.663      **Site Number:** 22T-021

**SiteID:** WWL-06-0148      **Sample Date:** 8/2/2022      **IDEM Sample #:** AB52410  
**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	82.6 %		ASTM D888-09(C)
DO	6.95 mg/L		ASTM D888-09(C)
pH (Field)	7.76 SU		EPA 150.2
Specific Conductance (Field)	1125 umho/cm		SM2510B
Temperature	23.9 °C		SM2550B(2)
Turbidity (Hach)	11.6 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: AB52410	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	488.4 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0148      **Sample Date:** 8/8/2022      **IDEM Sample #:** AB52550  
**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	99 %		ASTM D888-09(C)
DO	7.79 mg/L		ASTM D888-09(C)
pH (Field)	7.95 SU		EPA 150.2
Specific Conductance (Field)	1449 umho/cm		SM2510B
Temperature	22.4 °C		SM2550B(2)
Turbidity (Hach)	3.75 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method
AB52550			
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	107.6 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0148      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB52580  
**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	100 %		ASTM D888-09(C)
DO	8.51 mg/L		ASTM D888-09(C)
pH (Field)	7.73 SU		EPA 150.2
Specific Conductance (Field)	1549 umho/cm		SM2510B
Temperature	23.2 °C		SM2550B(2)
Turbidity (Hach)	4.76 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #:	Result	Reporting Limit	Method
AB52580			
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	74.3 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0148      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB51398  
**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 #:	Result	Reporting Limit	Method
% Sat	114.9 %		ASTM D888-09(C)
DO	9.58 mg/L		ASTM D888-09(C)
pH (Field)	8.01 SU		EPA 150.2
Specific Conductance (Field)	1552 umho/cm		SM2510B
Temperature	24.3 °C		SM2550B(2)
Turbidity (Hach)	3.34 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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

SiteID: WWL-06-0148      Sample Date: 8/22/2022      IDEM Sample #: AB52620  
 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	96.3 %		ASTM D888-09(C)
DO	8.24 mg/L		ASTM D888-09(C)
pH (Field)	7.98 SU		EPA 150.2
Specific Conductance (Field)	1733 umho/cm		SM2510B
Temperature	22.9 °C		SM2550B(2)
Turbidity (Hach)	2.68 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50324319003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	130 mg/L	10	SM2320B
Chloride	5.6 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	974 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1500 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1400 mg/L	20	SM2540C
Sulfate	914 mg/L	25	EPA 300.0
Calcium (Total)	216000 ug/L	2000	EPA 200.7
Magnesium (Total)	106000 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	0.16 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	2.7 mg/L	1	SM5310C

Lab ID #: AB52620	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	123.4 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0148      Sample Date: 9/19/2022      IDEM Sample #: AB52878  
 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	90.6 %		ASTM D888-09(C)
DO	7.74 mg/L		ASTM D888-09(C)
pH (Field)	7.52 SU		EPA 150.2
Specific Conductance (Field)	1545 umho/cm		SM2510B
Temperature	23 °C		SM2550B(2)
Turbidity (Hach)	10.2 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: 50326553003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	133 mg/L	10	SM2320B
Chloride	5.4 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	850 mg/L	10	SM2340B
Solids, Suspended Total, (TSS)	8.8 mg/L	2.5	SM2540D
Solids, Total (TS)	1350 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1240 mg/L	20	SM2540C
Sulfate	780 mg/L	25	EPA 300.0
Calcium (Total)	188000 ug/L	1000	EPA 200.7
Magnesium (Total)	92400 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	3.7 mg/L	1	SM5310C

Lab ID #: AB52878	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	1299.7 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0148

Sample Date: 10/17/2022

IDEM Sample #: AB53172

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 #:	Result	Reporting Limit	Method
% Sat	75.1 %		ASTM D888-09(C)
DO	8.32 mg/L		ASTM D888-09(C)
pH (Field)	7.39 SU		EPA 150.2
Specific Conductance (Field)	2017 umho/cm		SM2510B
Temperature	10.5 °C		SM2550B(2)
Turbidity (Hach)	2.12 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: 50328899003	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	162 mg/L	10	SM2320B
Chloride	6 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1110 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1860 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1760 mg/L	20	SM2540C
Sulfate	1130 mg/L	25	EPA 300.0
Calcium (Total)	245000 ug/L	2000	EPA 200.7
Magnesium (Total)	120000 ug/L	1000	EPA 200.7
COD	15.5 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	0.053 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	3.6 mg/L	1	SM5310C

Lab ID #: AB53172	Result	Reporting Limit	Method
Coliforms (Total)	727 MPN/100mL	1	SM9223B
E. coli	113 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-06-0149      **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:** 6.394      **Site Number:** 22T-022

**SiteID:** WWL-06-0149      **Sample Date:** 8/2/2022      **IDEM Sample #:** AB52394  
**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	79.7 %		ASTM D888-09(C)
DO	6.87 mg/L		ASTM D888-09(C)
pH (Field)	7.51 SU		EPA 150.2
Specific Conductance (Field)	1130 umho/cm		SM2510B
Temperature	22.5 °C		SM2550B(2)
Turbidity (Hach)	2.96 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #:	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	78 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0149      **Sample Date:** 8/8/2022      **IDEM Sample #:** AB52534  
**Water Flow Type** Glide      **Water Appearance** Clear      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:** Dam present upstream of bridge

Lab ID #:	Result	Reporting Limit	Method
% Sat	82.7 %		ASTM D888-09(C)
DO	6.74 mg/L		ASTM D888-09(C)
pH (Field)	7.66 SU		EPA 150.2
Specific Conductance (Field)	1648 umho/cm		SM2510B
Temperature	25.5 °C		SM2550B(2)
Turbidity (Hach)	2.87 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

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

Lab ID #:	Result	Reporting Limit	Method
AB52534			
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	206.4 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0149      **Sample Date:** 8/15/2022      **IDEM Sample #:** AB51399  
**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 #:	Result	Reporting Limit	Method
% Sat	83.9 %		ASTM D888-09(C)
DO	7.22 mg/L		ASTM D888-09(C)
pH (Field)	7.64 SU		EPA 150.2
Specific Conductance (Field)	1685 umho/cm		SM2510B
Temperature	22.5 °C		SM2550B(2)
Turbidity (Hach)	4.47 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	0 Lookup		Observation
Wind Strength	1 Lookup		Observation

**SiteID:** WWL-06-0149      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB52564  
**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	83.6 %		ASTM D888-09(C)
DO	7.32 mg/L		ASTM D888-09(C)
pH (Field)	7.5 SU		EPA 150.2
Specific Conductance (Field)	1726 umho/cm		SM2510B
Temperature	21.7 °C		SM2550B(2)
Turbidity (Hach)	4.62 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #:	Result	Reporting Limit	Method
AB52564			
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	135.4 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0149      **Sample Date:** 8/22/2022      **IDEM Sample #:** AB52604  
**Water Flow Type**    Glide      **Water Appearance**    Clear      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	82.7 %		ASTM D888-09(C)
DO	7.21 mg/L		ASTM D888-09(C)
pH (Field)	7.82 SU		EPA 150.2
Specific Conductance (Field)	1788 umho/cm		SM2510B
Temperature	21.8 °C		SM2550B(2)
Turbidity (Hach)	2.24 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

<b>Lab ID #: 50324319001</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	191 mg/L	10	SM2320B
Chloride	5.1 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1090 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1600 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1490 mg/L	20	SM2540C
Sulfate	938 mg/L	25	EPA 300.0
Calcium (Total)	218000 ug/L	2000	EPA 200.7
Magnesium (Total)	133000 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	0.13 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	2.6 mg/L	1	SM5310C

<b>Lab ID #: AB52604</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	193.5 MPN/100mL	1	SM9223B

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

SiteID: WWL-06-0149      Sample Date: 9/19/2022      IDEM Sample #: AB52862  
 Water Flow Type Stagnant      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	82.7 %		ASTM D888-09(C)
DO	7.24 mg/L		ASTM D888-09(C)
pH (Field)	7.46 SU		EPA 150.2
Specific Conductance (Field)	1816 umho/cm		SM2510B
Temperature	21.7 °C		SM2550B(2)
Turbidity (Hach)	2.08 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 50326553001	Result	Reporting Limit	Method
Alkalinity (as CaCO3)	197 mg/L	10	SM2320B
Chloride	4.9 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1170 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	3 mg/L	2.5	SM2540D
Solids, Total (TS)	1660 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1480 mg/L	20	SM2540C
Sulfate	934 mg/L	25	EPA 300.0
Calcium (Total)	243000 ug/L	2000	EPA 200.7
Magnesium (Total)	138000 ug/L	1000	EPA 200.7
COD	11 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	0.52 mg/L	0.5	EPA 351.2
TOC	2.9 mg/L	1	SM5310C

Lab ID #: AB52862	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	866.4 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0149      **Sample Date:** 10/17/2022      **IDEM Sample #:** AB53156  
**Water Flow Type** Pool      **Water Appearance** Murky      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**  **Aquatic Life?** **Canopy Closed %** 0-20%  
**Sampler Comments:** Log jam upstream of bridge. Sheen present.

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	69.9 %		ASTM D888-09(C)
DO	7.8 mg/L		ASTM D888-09(C)
pH (Field)	7.43 SU		EPA 150.2
Specific Conductance (Field)	2013 umho/cm		SM2510B
Temperature	10.2 °C		SM2550B(2)
Turbidity (Hach)	1.28 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	3 Lookup		Observation

<b>Lab ID #:</b> 50328899001	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	245 mg/L	10	SM2320B
Chloride	5.7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1190 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	1840 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1730 mg/L	20	SM2540C
Sulfate	1020 mg/L	25	EPA 300.0
Calcium (Total)	244000 ug/L	2000	EPA 200.7
Magnesium (Total)	141000 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	3.5 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53156	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	> 2419.6 MPN/100mL	2419.6	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> Sky Conditions	<b>WD</b> Wind Direction	<b>WS</b> Wind Strength	<b>AT</b> 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-06-0150      **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:** 7.403      **Site Number:** 22T-023

**SiteID:** WWL-06-0150      **Sample Date:** 8/2/2022      **IDEM Sample #:** AB52405  
**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	83.5 %		ASTM D888-09(C)
DO	7.29 mg/L		ASTM D888-09(C)
pH (Field)	7.3 SU		EPA 150.2
Specific Conductance (Field)	1190 umho/cm		SM2510B
Temperature	21.9 °C		SM2550B(2)
Turbidity (Hach)	12.8 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	4 Lookup		Observation

Lab ID #: AB52405	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	> 2419.6 MPN/100mL	2419.6	SM9223B

**SiteID:** WWL-06-0150      **Sample Date:** 8/8/2022      **IDEM Sample #:** AB52545  
**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	93.4 %		ASTM D888-09(C)
DO	7.63 mg/L		ASTM D888-09(C)
pH (Field)	7.77 SU		EPA 150.2
Specific Conductance (Field)	1859 umho/cm		SM2510B
Temperature	25.3 °C		SM2550B(2)
Turbidity (Hach)	3.49 NTU		EPA 180.1
Air Temp	6 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: AB52545	Result	Reporting Limit	Method
E. coli	488.4 MPN/100mL	1	SM9223B

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

Lab ID #:	Result	Reporting Limit	Method	
AB52545b	Coliforms (Total)	11980 MPN/100mL	100	SM9223B

**SiteID:** WWL-06-0150      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB52575  
**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	92.3 %	ASTM D888-09(C)
	DO	8.12 mg/L	ASTM D888-09(C)
	pH (Field)	7.48 SU	EPA 150.2
	Specific Conductance (Field)	1826 umho/cm	SM2510B
	Temperature	21.4 °C	SM2550B(2)
	Turbidity (Hach)	5.08 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	3 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	2 Lookup	Observation

Lab ID #:	Result	Reporting Limit	Method	
AB52575	Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
	E. coli	307.6 MPN/100mL	1	SM9223B

**SiteID:** WWL-06-0150      **Sample Date:** 8/16/2022      **IDEM Sample #:** AB51400  
**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 #:	Result	Reporting Limit	Method
	% Sat	98 %	ASTM D888-09(C)
	DO	8.64 mg/L	ASTM D888-09(C)
	pH (Field)	7.21 SU	EPA 150.2
	Specific Conductance (Field)	1821 umho/cm	SM2510B
	Temperature	21.4 °C	SM2550B(2)
	Turbidity (Hach)	4.96 NTU	EPA 180.1
	Air Temp	5 Lookup	Observation
	Sky Conditions	3 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	1 Lookup	Observation

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

**SiteID:** WWL-06-0150

**Sample Date:** 8/22/2022

**IDEM Sample #:** AB52615

**Water Flow Type**  Glide

**Water Appearance** Clear

**Water Depth**  **Algae?**

**Water Flow (cf/sec):**

**Flow Estimated?**

**Aquatic Life?**

**Canopy Closed %** 0-20%

**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	91 %		ASTM D888-09(C)
DO	7.99 mg/L		ASTM D888-09(C)
pH (Field)	7.46 SU		EPA 150.2
Specific Conductance (Field)	2132 umho/cm		SM2510B
Temperature	21.4 °C		SM2550B(2)
Turbidity (Hach)	2.91 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #: 50324319002</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	54.8 mg/L	10	SM2320B
Chloride	6.6 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1270 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	< 2.5 mg/L	2.5	SM2540D
Solids, Total (TS)	2040 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1910 mg/L	20	SM2540C
Sulfate	1320 mg/L	25	EPA 300.0
Calcium (Total)	318000 ug/L	2000	EPA 200.7
Magnesium (Total)	115000 ug/L	1000	EPA 200.7
COD	12.6 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	1.9 mg/L	1	SM5310C

<b>Lab ID #: AB52615</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	365.4 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0150      **Sample Date:** 9/19/2022      **IDEM Sample #:** AB52873  
**Water Flow Type**    Glide      **Water Appearance**    Clear      **Water Depth**       **Algae?**  
**Water Flow (cf/sec):**       **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	84.4 %		ASTM D888-09(C)
DO	7.39 mg/L		ASTM D888-09(C)
pH (Field)	7.5 SU		EPA 150.2
Specific Conductance (Field)	1844 umho/cm		SM2510B
Temperature	21.6 °C		SM2550B(2)
Turbidity (Hach)	6.76 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

<b>Lab ID #: 50326553002</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	80.8 mg/L	10	SM2320B
Chloride	6.3 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1130 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	3.8 mg/L	2.5	SM2540D
Solids, Total (TS)	1700 mg/L	20	SM2540B
Solids, Total Dissolved (TDS)	1600 mg/L	20	SM2540C
Sulfate	1040 mg/L	25	EPA 300.0
Calcium (Total)	291000 ug/L	2000	EPA 200.7
Magnesium (Total)	97700 ug/L	1000	EPA 200.7
COD	13.8 mg/L	10	EPA 410.4
Nitrogen, Ammonia	< 0.1 mg/L	0.1	EPA 350.1
Nitrogen, Nitrate+Nitrite	0.16 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

<b>Lab ID #: AB52873</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	686.7 MPN/100mL	1	SM9223B

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

**SiteID:** WWL-06-0150      **Sample Date:** 10/17/2022      **IDEM Sample #:** AB53167  
**Water Flow Type** Run      **Water Appearance** Sheen      **Water Depth**  **Algae?**  
**Water Flow (cf/sec):**  **Flow Estimated?**       **Aquatic Life?**      **Canopy Closed %** 0-20%  
**Sampler Comments:**

<b>Lab ID #:</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
% Sat	80.1 %		ASTM D888-09(C)
DO	9.05 mg/L		ASTM D888-09(C)
pH (Field)	7.29 SU		EPA 150.2
Specific Conductance (Field)	2329 umho/cm		SM2510B
Temperature	9.6 °C		SM2550B(2)
Turbidity (Hach)	2.15 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	3 Lookup		Observation

<b>Lab ID #:</b> 50328899002	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Alkalinity (as CaCO3)	44.2 mg/L	10	SM2320B
Chloride	7 mg/L	0.25	EPA 300.0
Hardness (as CaCO3)	1340 mg/L	20	SM2340B
Solids, Suspended Total, (TSS)	3.1 mg/L	2.5	SM2540D
Solids, Total (TS)	2210 mg/L	40	SM2540B
Solids, Total Dissolved (TDS)	2060 mg/L	40	SM2540C
Sulfate	1500 mg/L	25	EPA 300.0
Calcium (Total)	336000 ug/L	2000	EPA 200.7
Magnesium (Total)	121000 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	0.052 mg/L	0.05	EPA 365.1
TKN	< 0.5 mg/L	0.5	EPA 351.2
TOC	2.4 mg/L	1	SM5310C

<b>Lab ID #:</b> AB53167	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	547.5 MPN/100mL	1	SM9223B

<b>Weather Code Definitions</b>			
<b>SC</b> <b>Sky Conditions</b>	<b>WD</b> <b>Wind Direction</b>	<b>WS</b> <b>Wind Strength</b>	<b>AT</b> <b>Air Temp</b>
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	