



October 29, 2018

OFFICE OF CITY CLERK

OCT 31 2018

INDIANOLA, IOWA

MAYOR KELLY B. SHAW  
CITY OF INDIANOLA  
110 N. 1<sup>st</sup> ST  
INDIANOLA, IA 50125

SUBJECT: Letter of Non-Compliance: Violation of Final Effluent Limits & Failure to Meet  
General Permit No. 1 Requirements [567 IAC 64.3(1)]  
NPDES Permit #: 9133001

Dear Honorable Mayor Shaw and Council:

Enclosed is the report of the recent inspection of the above facility conducted by Anne Hildebrand of the Field Office #5 staff.

We believe you will find the report self-explanatory and strongly encourage you to take action on the requirements listed at the end of the report.

This letter of non-compliance pertains to the violations of the final effluent limits specified in your NPDES permit, and the failure to meet the requirements of NPDES General Permit No. 1.

If you have any comments or questions about the inspection or report, please contact Anne Hildebrand at 515-725-0273 or [anne.hildebrand@dnr.iowa.gov](mailto:anne.hildebrand@dnr.iowa.gov).

The cooperation and assistance provided by Rick Graves during the inspection is appreciated.

Sincerely,

Ted Petersen  
Supervisor, Field Office #5

cc: DNR Records (w/encl.)  
Rick Graves, WW Supt., City of Indianola (via email)



Iowa Department of Natural Resources  
Wastewater Treatment Facility Inspection Form

NPDES Permit #: 9133001

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FACILITY INFORMATION

Facility: Name: Indianola Water Pollution Control Plant Plant Grade: WW/III  
 Responsible Authority/Owner: City of Indianola  
 Address: 1180 Hoover Street Phone: 515-465-4092  
 City: Indianola State: Iowa Zip: 50125  
 Responsible Operator: Name: Rick Graves Grade: WW4 Certification Number: 6190

General Description:

The facility consists of a mechanical bar screen, a primary pumping station, grit removal, two primary clarifiers, a secondary pumping station, a fixed film bioreactor (now offline), three aeration tanks, two final clarifiers, a final pumping station, four mixed media polishing filters to treat a portion of the final effluent (no longer in use) and two chlorine contact tanks (no chlorine used). Primary clarifier sludge is treated in the heated primary and the secondary anaerobic digesters; sludge is stored in two concrete sludge holding tanks with a 1.2 MG total holding capacity. A

27 MG storm water equalization basin is located west of the treatment plant. A storm water holding pond, an overflow basin and a lift station are located at the old south treatment plant. There are six other lift stations in the collection system.

Design Capacity:

Average MGD: 2.5 Maximum MGD: 4.32  
 Pounds BOD/Day: 1,930 PE (BOD): 11,557

Now Treating:

Average MGD: 1.6569 Maximum MGD: 3.6790  
 Pounds BOD/Day: 1,876.98 (CBOD) PE (BOD): 11,239

Receiving Stream:

Period Reviewed: 8/01/2016 - 08/31/2018 Population Served: 14,782 (2010 census)  
Cavitt Creek

INSPECTION INFORMATION

Inspection: Date and Time of Inspection: 09/18/2018 9:35 a.m. Purpose: Routine Compliance Inspection  
 Date of Last Inspection: 07/05/2016  
 Persons Interviewed: Name: Rick Graves Title: Wastewater Superintendent  
 Name: \_\_\_\_\_ Title: \_\_\_\_\_

NPDES PERMIT COMPLIANCE SUMMARY

Self-Monitoring: Effluent Limitations: Samples this Inspection:	Operation Reports Submitted:	Required Data on Reports:	Testing Adequacy:
	<input checked="" type="checkbox"/> Sat. <input type="checkbox"/> Marg.* <input type="checkbox"/> Unsat.*	<input checked="" type="checkbox"/> Sat. <input type="checkbox"/> Marg.* <input type="checkbox"/> Unsat.*	<input checked="" type="checkbox"/> Sat. <input type="checkbox"/> Marg.* <input type="checkbox"/> Unsat.*
	Self-Monitoring Results:		
	<input type="checkbox"/> Compliance <input type="checkbox"/> Infrequent Non-Compliance* <input checked="" type="checkbox"/> Significant Non Compliance*		
Compliance Schedule:	Type: <u>No samples taken</u>	Lab Data Attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	Results: <input type="checkbox"/> Sat. <input type="checkbox"/> Marg.* <input type="checkbox"/> Unsat.*
	Visual Appearance of Effluent: <u>Clear Green</u>		
	Visual Appearance of Receiving Stream: <u>Not Observed</u>		
	Compliance w/Schedule:	Next Item Due:	Date Due:
	<input type="checkbox"/> Sat. <input type="checkbox"/> Marg.* <input type="checkbox"/> Unsat.* <input checked="" type="checkbox"/> NA	_____	_____

\* Additional details in the narrative report

AUTHENTICATION

Inspector:	Name & Title:	<u>Anne Hildebrand, Environmental Specialist</u> <i>Anne Hildebrand</i>	Date:	<u>10-29-18</u>
	Name & Title:	<u>Tom Atkinson, Environmental Specialist Senior</u> <i>Tom Atkinson</i>	Date:	<u>10/29/18</u>

**Iowa Department of Natural Resources  
Wastewater Treatment Facility Inspection Form**

NPDES Permit #: 9133001

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**FACILITY EVALUATION**

Were deficiencies noted or significant observations made during the inspection?

Yes = See Comments Section for details

No = No deficiencies or significant observations were noted

Lack of Entry = Item not applicable or not observed.

Item	Yes	No	Item	Yes	No
<b>1. Collection System</b>			<b>9. Sludge Handling and Disposal</b>		
a. Operation and Maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	a. Operation and Maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Physical Condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>	b. Physical Condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Dry Weather Capacity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	c. Capacity	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Infiltration/Inflow	<input checked="" type="checkbox"/>	<input type="checkbox"/>	d. Effectiveness	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Bypass(es)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	e. Final Disposal, Solids	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>2. Lift Station(s) (Collection System)</b>			f. Final Disposal, Liquids	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. Operation and Maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>10. Lagoon Structures</b>		
b. Physical Condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>	a. Maintenance	<input type="checkbox"/>	<input type="checkbox"/>
c. Capacity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	b. Physical Condition	<input type="checkbox"/>	<input type="checkbox"/>
d. Reliability/Emergency Operation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	c. Capacity	<input type="checkbox"/>	<input type="checkbox"/>
<b>3. Industrial Waste Pre-Treatment</b>			d. Cell Configuration	<input type="checkbox"/>	<input type="checkbox"/>
a. Significant Industrial Users	<input checked="" type="checkbox"/>	<input type="checkbox"/>	e. Storage/Drawdown Management	<input type="checkbox"/>	<input type="checkbox"/>
b. Waste Toxicity/ Compatibility	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>11. Flow Measurement</b>		
c. Strength Reduction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	a. Operation and Maintenance	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Effect on Treatment Plant	<input type="checkbox"/>	<input checked="" type="checkbox"/>	b. Capacity	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4. Preliminary Treatment</b>			c. Continuity	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. Operation and Maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	d. Location, Method/ Effectiveness	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Physical Condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>12. Pumping</b>		
c. Capacity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	a. Operation and Maintenance	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Effectiveness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	b. Physical Condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>5. Primary Treatment</b>			c. Capacity	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. Operation and Maintenance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	d. Reliability/ Emergency Operation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Physical Condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>13. Miscellaneous</b>		
c. Capacity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	a. Location	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Sludge/Scum Removal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	b. Odors	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Effectiveness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	c. Emergency Operation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>6. Secondary Treatment</b>			d. Bypass(es)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Operation and Maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	e. Equipment	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Physical Condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>	f. Buildings & Grounds	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Capacity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	g. Lab Certification	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Recirculation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	h. Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Freezing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>14. Staffing, Operator Certification</b>		
f. Effectiveness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	a. Operator, Direct Responsibility	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>7. Final Settling</b>			b. Shift Operator(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. Operation and Maintenance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	c. General Staffing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Physical Condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>15. Supplementary</b>		
c. Capacity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	a. Permit Availability	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Effectiveness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	b. Operation Reports Availability	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>8. Supplementary Treatment</b>			c. Equipment Records Maintenance	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. Operation and Maintenance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	d. Previously Noted Deficiencies	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Physical Condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>	e. Improvements	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Capacity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	f. Domestic/Industrial Growth	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Effectiveness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	g. Recommendations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			h. Required Actions	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Iowa Department of Natural Resources  
Wastewater Treatment Facility Inspection Form

Facility Name: Indianola Water Pollution Control Plant

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NPDES Permit #: 9133001

Inspection Date: 09/18/2018

INTRODUCTION

A routine compliance inspection was conducted at the City of Indianola's wastewater treatment facility on September 18, 2018. The inspection involved a review of the facility records, discussions with the staff identified above, and a walk through of the treatment facility.

NPDES PERMIT COMPLIANCE SUMMARY

The discharge monitoring reports (DMRs) were reviewed for the reporting period from August 2016 through August 2018.

**Self-Monitoring:** The facility utilizes electronic reporting. All DMRs were submitted regularly and on time during the reporting period.

**Design Capacity:** During the above mentioned reporting period the facility was in compliance with the design capacity except for the following:

- The design average wet weather (AWW) flow was exceeded during two months during the review period.
- The design capacity 5-day biochemical oxygen demand (BOD<sub>5</sub>) load of 1,930 lbs/day was exceeded 13 months during the review period.

The facility is reminded that waste in such volumes or quantities that exceed design capacity of the treatment plant or reduce the effluent quality below that specified in the operation permit are considered to be wastes that interfere with the operation or performance of the treatment system and are prohibited by rule IAC 567 62.1(7).

**Effluent Limitations:** During the review period, the City was in significant non-compliance with the 30-day average concentration final effluent limits for ammonia nitrogen. A letter of non-compliance was issued on October 30, 2017 to the City due to the final effluent limit exceedances. Also, during the review period, the City was in infrequent non-compliance with the TSS final effluent limits (see the attached Facility Compliance Report).

**Samples This Inspection:** No samples were taken during this inspection.

FACILITY EVALUATION

1.a & d: COLLECTION SYSTEM: Operation and Maintenance & Infiltration/Inflow

The City has a five year project to televise, clean and smoke test 25,000 feet/year of the collection system which began in 2016. The City has hired Central Iowa Televising to complete this work. The City recently purchased an EnviroSight camera system for evaluating the condition of the collection system.

In order to disconnect illegal sump pump connections to the sanitary sewer, beginning in January 2017 the City gained the ability to conduct "Time of Sale" inspections on residences. From March 1, 2017 (when the City officially began conducting inspections) to June 30, 2018, 349 time of sale inspections were completed. From those inspections, six sump pump connections were found and corrected. Also, ten owners voluntarily fixed the sewer connections from their residence to the street. The City was forced to discontinue their time of transfer inspections due to State of Iowa House File 2286, an Act that prohibits cities and counties from imposing time-of-sale requirements on transactions involving real property (effective July 1, 2018).

Two sanitary sewer lining projects were completed during the review period. Iowa DNR Construction Permits 2017-0343-S and 2018-0226-S were issued on April 12, 2017 and January 4, 2018 respectively for the completion of: 664 linear feet of 10-inch Cured-in-Place-Pipe (CIPP) sanitary sewer lining, 1,540 linear feet of 8-inch CIPP sanitary sewer lining and 186 linear feet of 6-inch CIPP sanitary sewer lining.

The City has made great efforts to reduce I/I in their collection system and are encouraged to continue the work in order to operate within the design capacity of the treatment plant.

#### 1.e: COLLECTION SYSTEM: Bypass

The City reported one collection system bypass from the Morlock lift station during the review period. The bypass occurred on June 14, 2018. The bypass occurred when the high level float backup failed to activate the pumps during an electrical issue with the SCADA system. The bypass was reported verbally by the City to the Department within 24 hours in accordance with 567 IAC 63.6(455B).

#### 2.a: LIFT STATIONS: Operation and Maintenance

The collection system contains seven lift stations. Iowa DNR Construction Permits 2018-0111-S and 2018-0126-S were issued on October 2, 2017 and October 13, 2017 respectively for the construction of the Morlock Lift Station. The Morlock lift station project was completed and consists of: construction of a lift station with a 4.245 MGD firm pumping capacity, 3,425 linear feet of 24-inch PVC sanitary sewer, 4,327 linear feet of 16-inch force main and 68 linear feet of 12-inch force main. Morlock is now the City's largest lift station.

#### 3.a: INDUSTRIAL WASTE PRE-TREATMENT: Significant Industrial Users

Since 2007 the City has not received leachate from the South Central Iowa Landfill Agency. The treatment agreement between the City and the Landfill is expired and void. The City has no Significant Industrial Users discharging to their collection system.

#### 4.a: PRELIMINARY TREATMENT: Operation and Maintenance

The City has an automatic bar screen and grit removal at the headworks of the treatment plant. The grit and screenings, along with any grease removed from the final clarifiers, are stabilized with hydrated lime and hauled to the landfill.

#### 6.a: SECONDARY TREATMENT: Operation and Maintenance

At the time of inspection, the City was bypassing the fixed film bioreactors. The City has made the decision to bypass the bioreactor treatment in order to combat effluent ammonia nitrogen violations. The City has no plans to bring the bioreactor treatment back online.

#### 9.a: SLUDGE HANDLING and DISPOSAL : Operation and Maintenance

Since the City land applies their sewage sludge, they are required to maintain a five-year sludge disposal plan and update it annually [567 IAC 67.4]. During the inspection, the City's 5-year plan was reviewed and was found to be complete. The City updates the 5-year plan annually every December.

#### 13.d: MISCELLANEOUS: Bypass

The City reported one bypass from the equalization basin overflow during the review period. The bypass occurred from April 18, 2017 through April 25, 2017. The bypass was the result of heavy rainfall overloading the wastewater treatment facility. The bypass was reported verbally by the City to the Department within 24 hours in accordance with 567 IAC 63.6(455B).

#### 15.a: SUPPLEMENTARY: Permit Availability

The City is required to obtain coverage under Iowa DNR NPDES General Permit No. 1 (Storm Water Discharge Associated with Industrial Activity) because the AWW design flow of the MWPC wastewater treatment facility is greater than or equal to 1.0 MGD. The City was initially authorized to be covered under General Permit No. 1 on August 14, 2008 (Authorization No. 16107-15924). The City has maintained coverage and most recently renewed for five years with an expiration date of June 1, 2023.

The SWPPP (Storm Water Pollution Prevention Plan) was last updated in 2008 and is not current. The SWPPP shall be updated to meet the requirements in Part III.C.

General Permit No. 1 requires that qualified personnel conduct inspections of designated equipment and plant area no less than once per year. Mr. Graves stated that he has not been conducting the annual inspections. The City shall begin conducting inspections annually according to requirements in Part III.C.4.C. Each inspection report shall be maintained at the facility for a period of three years.

General Permit No. 1 also requires sampling be conducted annually at a minimum [Part V.B.12.]. Mr. Graves stated that he had never conducted the require monitoring. The City shall sample a storm water discharge that meets the sample type requirements at least annually for the required parameters specified in Part V.B.12.A. The results of the sampling shall be maintained at the facility for a period of three years.

#### 15.e: SUPPLEMENTARY: Improvements

The current wastewater treatment plant is aging. Due to the aging facility, the City began planning to construct a new wastewater treatment facility. Currently, the City is working with the Iowa DNR Wastewater Engineering section to approve the antidegradation analysis and facility plan for the new wastewater treatment facility. The City plans to build an oxidation ditch activated sludge wastewater treatment facility at a new location. The planned schedule is for construction to begin October 2019 and have construction substantially completed by December 2021. Until the new plant is built, it is imperative that the City maintain their current plant in order to provide adequate wastewater treatment.

### **SUMMARY**

The City was in significant non-compliance with the final effluent limits for ammonia nitrogen and in infrequent non-compliance with the TSS final effluent limits. The City has made great strides with I/I and these efforts should be continued to ensure efficient operation of the collection system and to operate within the design capacity of the wastewater treatment facility.

### **REQUIREMENTS**

1. Continue to eliminate sources of I/I within the collection system in order to operate within the design capacity of the facility [567 IAC 62.1(7)].
2. Comply with the effluent limitations of the NPDES permit at all times [567 IAC 64.3(1)].
3. Comply with the requirements of NPDES General Permit No. 1 [567 IAC 64.3(1)].

DMR Monthly Summary

Facility: INDIANOLA

Permitted Facility: INDIANOLA CITY OF STP (NORTH)

Permit Status: ACTIVE

NPDES Number: 9133001

SIU: 0

Issuance: 01/02/2002

Expiration: 01/01/2007

Outfall: 001 Monitoring Location: RAW WASTE

Parameter: FLOW

Mon Period	No Discharge	Avg	Max	ZDay	Min	Units	Avg	Max	ZDay	Units
08/31/2018		1.3632	1.8470	1.6103	1.17	MGD				
07/31/2018		1.8713	2.2960	2.1549	1.50	MGD				
06/30/2018		1.7113	2.3450	1.8671	1.14	MGD				
05/31/2018		1.8171	2.4330	2.1156	0.87	MGD				
04/30/2018		1.4966	2.0740	1.6436	1.32	MGD				
03/31/2018		1.5304	2.1390	1.7451	1.26	MGD				
02/28/2018		1.3468	1.6290	1.5313	1.15	MGD				
01/31/2018		1.2380	1.6650	1.3394	1.11	MGD				
12/31/2017		1.1114	1.2300	1.1231	0.97	MGD				
11/30/2017		1.1740	1.3290	1.2304	0.80	MGD				
10/31/2017		1.3699	1.9510	1.4076	1.10	MGD				
09/30/2017		1.1504	1.2980	1.1890	1.05	MGD				
08/31/2017		1.1563	1.7960	1.2241	1.01	MGD				
07/31/2017		1.2773	1.4880	1.3570	1.13	MGD				
06/30/2017		1.8820	2.9990	2.9740	1.42	MGD				
05/31/2017		3.0063	3.2700	3.2700	2.79	MGD				
04/30/2017		3.0828	3.6790	3.6790	2.33	MGD				
03/31/2017		1.6973	2.4640	2.4640	1.43	MGD				
02/28/2017		1.5759	1.7950	1.7950	1.44	MGD				
01/31/2017		1.6445	2.0260	2.0260	1.32	MGD				
12/31/2016		1.4124	1.8470	1.8470	1.23	MGD				
11/30/2016		1.3223	1.7480	1.7480	1.14	MGD				
10/31/2016		1.7255	2.7670	2.7670	1.31	MGD				
09/30/2016		2.4300	3.1000	3.1000	1.51	MGD				
08/31/2016		2.0292	2.9560	2.9560	1.54	MGD				

Design AWW Flow (MGD) 2.5  
 Design MWW Flow (MGD) 4.32

DMR Monthly Summary

Facility: INDIANOLA

Permitted Facility: INDIANOLA CITY OF STP (NORTH)

Permit Status: ACTIVE

NPDES Number: 9133001

SIU: 0

Issuance: 01/02/2002

Expiration:

01/01/2007

Outfall: 001

Monitoring Location: RAW WASTE

FLOW

Parameter:

Exceedances of Design Flow	2
Average	1.6569
Maximum	3.6790

DMR Monthly Summary

Facility: INDIANOLA

Permitted Facility: INDIANOLA CITY OF STP (NORTH)

Permit Status: ACTIVE

NPDES Number: 9133001

SIU: 0

Issuance: 01/02/2002

Expiration: 01/01/2007

Outfall: 001

Monitoring Location: RAW WASTE

Parameter: CBOD5

Mon Period	No Discharge	Avg	Max	ZDay	Min	Units	Avg	Max	ZDay	Units
08/31/2018		157.0000	196.0000	189.5000	90.00	MG/L	1,684.45	2,053.11	1,952.51	LBS/DAY
07/31/2018		106.2308	155.0000	123.7500	67.00	MG/L	1,651.53	2,229.28	1,877.41	LBS/DAY
06/30/2018		142.2143	205.0000	172.0000	62.00	MG/L	2,041.39	2,887.68	2,318.41	LBS/DAY
05/31/2018		135.2667	170.0000	158.6667	93.00	MG/L	2,005.70	2,665.75	2,257.05	LBS/DAY
04/30/2018		164.5333	188.0000	169.3333	118.00	MG/L	2,057.16	2,594.57	2,273.85	LBS/DAY
03/31/2018		158.8667	268.0000	169.0000	106.00	MG/L	2,034.28	3,558.31	2,283.03	LBS/DAY
02/28/2018		178.8571	268.0000	216.0000	114.00	MG/L	1,998.84	3,243.16	2,283.44	LBS/DAY
01/31/2018		191.6923	314.0000	221.0000	148.00	MG/L	1,979.04	3,056.09	2,272.63	LBS/DAY
12/31/2017		227.2667	278.0000	242.3333	190.00	MG/L	2,121.19	2,640.79	2,296.75	LBS/DAY
11/30/2017		188.3333	234.0000	196.7500	142.00	MG/L	1,856.22	2,142.78	1,913.57	LBS/DAY
10/31/2017		175.8571	223.0000	180.6667	125.00	MG/L	1,964.07	2,331.06	2,016.32	LBS/DAY
09/30/2017		194.6667	256.0000	209.6667	156.00	MG/L	1,866.58	2,389.11	2,012.78	LBS/DAY
08/31/2017		213.5333	252.0000	228.6667	187.00	MG/L	2,019.45	2,267.71	2,124.66	LBS/DAY
07/31/2017		192.7500	287.0000	204.0000	140.00	MG/L	2,041.28	2,766.98	2,190.41	LBS/DAY
06/30/2017		140.9333	208.0000	175.5000	70.00	MG/L	2,055.08	2,784.23	2,263.29	LBS/DAY
05/31/2017		78.8000	122.0000		35.00	MG/L	1,964.75	2,949.67		LBS/DAY
04/30/2017		76.5333	104.0000		35.00	MG/L	1,982.00	2,853.51		LBS/DAY
03/31/2017		130.8750	186.0000		61.00	MG/L	1,807.82	2,390.93		LBS/DAY
02/28/2017		134.5714	172.0000		114.00	MG/L	1,766.16	2,371.20		LBS/DAY
01/31/2017		123.2000	158.0000		86.00	MG/L	1,690.03	1,921.24		LBS/DAY
12/31/2016		139.2500	166.0000		97.00	MG/L	1,634.73	1,938.22		LBS/DAY
11/30/2016		151.0667	170.0000		125.00	MG/L	1,664.28	2,070.12		LBS/DAY
10/31/2016		127.4000	172.0000		68.00	MG/L	1,778.70	2,165.26		LBS/DAY
09/30/2016		79.5333	151.0000		34.00	MG/L	1,516.78	2,586.68		LBS/DAY
08/31/2016		104.8667	123.0000		80.00	MG/L	1,742.90	2,212.54		LBS/DAY

Design CBOD5 Load (lbs/day) 1930  
 Exceedances of Design Load 13

DMR Monthly Summary

Facility: INDIANOLA

Permitted Facility: INDIANOLA CITY OF STP (NORTH)

Permit Status: ACTIVE

NPDES Number: 9133001

SIU: 0

0

Issuance: 01/02/2002

Expiration: 01/01/2007

Outfall: 001

Monitoring Location: RAW WASTE

RAW WASTE

Parameter: CBOD5

Average 1,876.98

# FACILITY COMPLIANCE REPORT

9/17/2018 2:20:16 PM

Facility: INDIANOLA CITY OF STP (NORTH) - 9133001

Date	Concentration										Mass				No Dis.
	30 Day Average		Daily Max		7 Day Avg		Min		30 Day Average		Daily Max		7 Day Avg		
	Limit	DMR	Limit	DMR	Limit	DMR	Limit	DMR	Limit	DMR	Limit	DMR	Limit	DMR	
INDIANOLA CITY OF STP (NORTH)															
8/31/2018	25.00	10.88	40.00	15.50	40.00	14.00	521.00	96.50	521.00	106.18	834.00	116.51			
7/31/2018	25.00	8.38	40.00	14.00	40.00	7.33	521.00	68.76	521.00	68.76	834.00	112.76			
6/30/2018	25.00	5.07	40.00	7.33	40.00	8.67	521.00	77.53	521.00	77.53	834.00	128.52			
5/31/2018	25.00	5.73	40.00	8.67	40.00	10.75	521.00	115.57	521.00	115.57	834.00	126.29			
4/30/2018	25.00	10.33	40.00	10.75	40.00	8.00	521.00	83.64	521.00	83.64	834.00	111.54			
3/31/2018	25.00	6.93	40.00	8.00	40.00	8.00	521.00	71.01	521.00	71.01	834.00	74.53			
2/28/2018	25.00	7.00	40.00	8.00	40.00	12.50	521.00	84.09	521.00	84.09	834.00	104.80			
1/31/2018	25.00	8.54	40.00	7.50	40.00	7.50	521.00	60.11	521.00	60.11	834.00	63.81			
12/31/2017	25.00	7.20	40.00	8.50	40.00	10.00	521.00	71.38	521.00	71.38	834.00	84.90			
11/30/2017	25.00	7.33	40.00	10.00	40.00	10.00	521.00	74.10	521.00	74.10	834.00	99.57			
10/31/2017	25.00	7.00	40.00	10.00	40.00	11.75	521.00	76.50	521.00	76.50	834.00	81.01			
9/30/2017	25.00	9.93	40.00	11.75	40.00	7.00	521.00	51.44	521.00	51.44	834.00	60.75			
8/31/2017	25.00	10.13	40.00	7.00	40.00	14.33	521.00	87.76	521.00	87.76	834.00	151.69			
7/31/2017	25.00	6.06	40.00	14.33	40.00	9.00	521.00	128.15	521.00	128.15	834.00	208.05			
6/30/2017	25.00	7.67	40.00	9.00	40.00	11.75	521.00	107.92	521.00	107.92	834.00	133.31			
5/31/2017	25.00	5.47	40.00	11.75	40.00	11.33	521.00	104.26	521.00	104.26	834.00	136.84			
4/30/2017	25.00	9.20	40.00	11.33	40.00	11.00	521.00	128.44	521.00	128.44	834.00	182.10			
3/31/2017	25.00	8.63	40.00	11.00	40.00	8.67	521.00	79.41	521.00	79.41	834.00	76.28			
2/28/2017	25.00	8.71	40.00	8.67	40.00	7.75	521.00	69.89	521.00	69.89	834.00	79.45			
1/31/2017	25.00	9.73	40.00	7.75	40.00	6.25	521.00	68.04	521.00	68.04	834.00	110.15			
12/31/2016	25.00	7.25	40.00	6.25	40.00	5.67	521.00	76.91	521.00	76.91	834.00				
11/30/2016	25.00	7.07	40.00	5.67	40.00										
10/31/2016	25.00	5.33	40.00		40.00										
9/30/2016	25.00	4.20	40.00		40.00										

001 - FINAL EFFLUENT

CBOD5

DO MIN	8/31/2016	25.00	3.13	40.00	4.00	4.20	5.10	521.00	49.61	340.00	138.96	834.00	69.81
	8/31/2018					4.20	5.10						
	7/31/2018					4.20	5.20						
	6/30/2018					4.20	5.80						
	5/31/2018					4.20	6.00						
	4/30/2018					4.20	6.20						
	3/31/2018					4.20	6.40						
	2/28/2018					4.20	6.70						
	1/31/2018					4.20	6.50						
	12/31/2017					4.20	6.30						
	11/30/2017					4.20	6.00						
	10/31/2017					4.20	5.70						
	9/30/2017					4.20	5.70						
	8/31/2017					4.20	5.30						
	7/31/2017					4.20	5.90						
	6/30/2017					4.20	4.60						
	5/31/2017					4.20	5.70						
	4/30/2017					4.20	6.40						
	3/31/2017					4.20	6.00						
	2/28/2017					4.20	7.00						
	1/31/2017					4.20	6.90						
	12/31/2016					4.20	6.50						
	11/30/2016					4.20	6.10						
	10/31/2016					4.20	6.40						
	9/30/2016					4.20	5.90						
	8/31/2016					4.20	5.90						
NH3-N													
	8/31/2018	1.40	4.28	16.40	13.70			26.00	42.73	340.00	138.96		
	7/31/2018	1.50	0.71	17.80	4.00			28.00	9.12	369.00	53.58		
	6/30/2018	1.70	0.31	14.60	2.10			32.00	4.21	303.00	27.93		
	5/31/2018	2.40	1.82	15.30	6.20			45.00	27.06	319.00	80.97		
	4/30/2018	2.80	6.26	15.90	13.80			52.00	69.78	329.00	149.39		
	3/31/2018	6.30	2.37	14.90	8.20			116.00	28.62	309.00	88.49		
	2/28/2018	8.10	2.01	14.50	4.10			150.00	21.35	300.00	51.63		
	1/31/2018	7.20	0.86	15.40	3.40			133.00	8.62	320.00	43.41		
	12/31/2017	5.40	1.39	16.10	4.10			101.00	12.47	335.00	47.11		

11/30/2017	4.60	1.96	14.80	5.20	86.00	18.51	308.00	53.86
10/31/2017	3.80	2.35	15.90	5.10	71.00	24.33	330.00	58.31
9/30/2017	1.90	2.74	16.70	6.90	36.00	21.78	346.00	59.68
8/31/2017	1.40	4.06	16.40	10.00	26.00	32.07	340.00	91.65
7/31/2017	1.50	0.27	17.80	0.90	28.00	2.31	369.00	6.66
6/30/2017	1.70	1.25	14.60	4.80	32.00	23.94	303.00	109.53
5/31/2017	2.40	8.74	15.30	12.40	45.00	204.77	319.00	296.71
4/30/2017	2.80	8.25	15.90	13.10	52.00	183.35	329.00	284.28
3/31/2017	6.30	1.40	14.90	3.40	116.00	17.19	309.00	41.72
2/28/2017	8.10	1.52	14.50	3.30	150.00	18.52	300.00	43.02
1/31/2017	7.20	1.37	15.40	5.90	133.00	17.22	320.00	63.97
12/31/2016	5.40	0.44	16.10	1.90	101.00	4.99	335.00	20.95
11/30/2016	4.60	0.27	14.80	0.90	86.00	2.74	308.00	10.27
10/31/2016	3.80	0.40	15.90	4.30	71.00	4.75	330.00	44.18
9/30/2016	1.90	0.43	16.70	2.20	36.00	7.39	346.00	29.29
8/31/2016	1.40	0.13	16.40	0.30	26.00	2.05	340.00	5.21

**PH MINMAX**

8/31/2018	9.00	7.60	6.00	6.90
7/31/2018	9.00	7.90	6.00	7.20
6/30/2018	9.00	7.40	6.00	7.00
5/31/2018	9.00	7.40	6.00	6.80
4/30/2018	9.00	7.40	6.00	7.00
3/31/2018	9.00	7.30	6.00	6.90
2/28/2018	9.00	7.20	6.00	6.80
1/31/2018	9.00	7.20	6.00	6.80
12/31/2017	9.00	7.30	6.00	6.90
11/30/2017	9.00	7.50	6.00	6.80
10/31/2017	9.00	7.40	6.00	7.00
9/30/2017	9.00	7.30	6.00	6.90
8/31/2017	9.00	7.30	6.00	6.70
7/31/2017	9.00	7.20	6.00	6.90
6/30/2017	9.00	7.40	6.00	7.00
5/31/2017	9.00	7.70	6.00	7.20
4/30/2017	9.00	7.80	6.00	7.20
3/31/2017	9.00	7.40	6.00	7.00
2/28/2017	9.00	7.30	6.00	7.10
1/31/2017	9.00	7.40	6.00	7.00

12/31/2016	9.00	7.50	6.00	7.10
11/30/2016	9.00	7.50	6.00	7.10
10/31/2016	9.00	7.40	6.00	7.10
9/30/2016	9.00	7.40	6.00	7.10
8/31/2016	9.00	7.40	6.00	7.00

TOX CER

8/31/2018	1.00				1.00	NOT REQ /MP
7/31/2018	1.00					NOT REQ /MP
6/30/2018	1.00					NOT REQ /MP
5/31/2018	1.00					NOT REQ /MP
4/30/2018	1.00					NOT REQ /MP
3/31/2018	1.00					NOT REQ /MP
2/28/2018	1.00					NOT REQ /MP
1/31/2018	1.00					NOT REQ /MP
12/31/2017	1.00					NOT REQ /MP
11/30/2017	1.00					NOT REQ /MP
10/31/2017	1.00					NOT REQ /MP
9/30/2017	1.00				1.00	NOT REQ /MP
8/31/2017	1.00					NOT REQ /MP
7/31/2017	1.00					NOT REQ /MP
6/30/2017	1.00					NOT REQ /MP
5/31/2017	1.00					NOT REQ /MP
4/30/2017	1.00					NOT REQ /MP
3/31/2017	1.00					NOT REQ /MP
2/28/2017	1.00					NOT REQ /MP
1/31/2017	1.00					NOT REQ /MP
12/31/2016	1.00					NOT REQ /MP
11/30/2016	1.00					NOT REQ /MP
10/31/2016	1.00					NOT REQ /MP
9/30/2016	1.00				1.00	NOT REQ /MP
8/31/2016	1.00					NOT REQ /MP

TOX PIM

8/31/2018	1.00					NOT REQ /MP
7/31/2018	1.00					NOT REQ /MP
6/30/2018	1.00					NOT REQ /MP
5/31/2018	1.00					NOT REQ /MP
4/30/2018	1.00					NOT REQ /MP



4/30/2017	30.00	13.33	45.00	14.00	626.00	298.69	938.00	325.57
3/31/2017	30.00	12.25	45.00	14.33	626.00	161.58	938.00	212.93
2/28/2017	30.00	11.50	45.00	15.00	626.00	137.96	938.00	187.14
1/31/2017	30.00	15.73	45.00	19.33	626.00	212.21	938.00	301.24
12/31/2016	30.00	9.44	45.00	11.25	626.00	102.55	938.00	126.20
11/30/2016	30.00	12.93	45.00	16.25	626.00	126.65	938.00	161.64
10/31/2016	30.00	10.60	45.00	12.00	626.00	137.91	938.00	183.62
9/30/2016	30.00	11.00	45.00	14.00	626.00	205.54	938.00	253.42
8/31/2016	30.00	9.50	45.00	14.33	626.00	155.70	938.00	307.10