

# ENVIRONMENTAL RESOURCE TECHNOLOGIES, LLC

131 Arlington St.

Ada, OK 74820

(580) 332-8808 Phone (580) 421-9110 Fax

EPA Laboratory Code: OK00921

ODEQ State ID No. 8304

Client Name: City of Hartshorne

Dates Received: 12/06/18  
12/13/18  
12/20/18  
12/27/18


Report Date: 12/29/18

## - CERTIFICATE OF ANALYSIS -

ERT Lab Log #	Sample ID	Date Sampled	Analysis		Analyzed		Results	Units	RL	Method
			Date	Time	By	Parameter				
WW1812121	Effluent	12/06/18	12/06/18	19:00	LH	BOD 5	BDL	mg/L	2.0	SM 5210-B
			12/06/18	16:15	SK	(Lab) pH	6.71	S.U.	0.1	SM 4500-HB
			12/10/18	13:30	LH	TSS	6.33	mg/L	2.0	SM 2540-D
			12/06/18	16:20	CB	E. coli	7.5	MPN/100mL	1	SM 9223-B 2004
WW1812223	Effluent	12/13/18	12/14/18	10:00	LH	BOD 5	BDL	mg/L	2.0	SM 5210-B
			12/13/18	17:20	LH	(Lab) pH	6.69	S.U.	0.1	SM 4500-HB
			12/18/18	16:15	LH	TSS	2.50	mg/L	2.0	SM 2540-D
			12/13/18	16:10	CB	E. coli	2.0	MPN/100mL	1	SM 9223-B 2004
WW1812367	Effluent	12/20/18	12/21/18	11:35	LH	BOD 5	BDL	mg/L	2.0	SM 5210-B
			12/20/18	16:15	LH	(Lab) pH	6.86	S.U.	0.1	SM 4500-HB
			12/24/18	12:45	LH	TSS	11.7	mg/L	2.0	SM 2540-D
			12/20/18	16:10	CB	E. coli	1.0	MPN/100mL	1	SM 9223-B 2004
WW1812438	Effluent	12/27/18	12/27/18	15:47	CB	E. coli	16.1	MPN/100mL	1	SM 9223-B 2004

RL = Reporting Limit

BDL = Analyte Detected Below RL

  
Laboratory Personnel

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## QUALITY CONTROL REPORT

Sample Date	Parameter	Methods	Sample RL (mg/L)	RPD %	Blank mg/L	Spike % Recovery	Standard % Recovery
12/06/18	BOD 5	SM 5210-B	2.0	0.00	0.1	NA	93.9
	pH	SM 4500-HB	0.1	0.536	NA	NA	100
	TSS	SM 2540-D	2.0	2.42	BDL	NA	94.2
	E. coli	SM 9223-B 2004	1	NA	NA	NA	NA
12/13/18	BOD 5	SM 5210-B	2.0	0.00	0.0	NA	97.0
	pH	SM 4500-HB	0.1	0.118	NA	NA	100
	TSS	SM 2540-D	2.0	3.23	BDL	NA	99.6
	E. coli	SM 9223-B 2004	1	NA	NA	NA	NA
12/20/18	BOD 5	SM 5210-B	2.0	3.33	0.0	NA	91.0
	pH	SM 4500-HB	0.1	0.585	NA	NA	99.9
	TSS	SM 2540-D	2.0	2.47	BDL	NA	99.8
	E. coli	SM 9223-B 2004	1	NA	NA	NA	NA
12/27/18	E. coli	SM 9223-B 2004	1	NA	NA	NA	NA

RL = Reporting Limit  
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Laboratory Personnel

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## CHAIN OF CUSTODY

Client Name: HARTSHORNE

PROJECT NAME: \_\_\_\_\_

Lab Log #	Date Sample Taken	Time Sample Taken	Matrix Water (W) Soil (S) Sludge (Sl) Other	G R A B	C O M P	Client I.D. Sample Location	Temp C, F	No. of Container (p)=plastic (g)=glass	Size of Container 1L, 500mL, 250mL, etc.	Analysis Requested	Sample Presv.
W001812-121	12/6/18	0900	Water (W)	X		Effluent		1 (p)	1 L	BOD	
	12/6/18	0900	Water (W)	X		Effluent		1 (p)	1 L	TSS	
	12/6/18	0900	Water (W)	X		Effluent		1 (p)	125mL	E. Coli (MPN/100mL)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>

Comments:

*Read on ice 46°C*

Sampled By: <i>Roy Mickle</i>	Date/Time: 12/6/18/0900	Received By:	Date/Time:
Relinquished By: <i>Theresa Wilson</i>	Date/Time: 12/6/18 10:20	Received By: <i>Jeffrey Parker</i>	Date/Time: 12-6-18 1020
Relinquished to Lab By: <i>Jeffrey Parker</i>	Date/Time: 12-6-18 1554	Received at Lab By: <i>Jeffrey Parker</i>	Date/Time: 12-6-18 1554

Report To:

Send Invoice To:

Address:

Address:

Phone/Fax Number:

Phone/Fax Number:

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## CHAIN OF CUSTODY

Client Name: HARTSHORNE

PROJECT NAME: \_\_\_\_\_

Lab Log #	Date Sample Taken	Time Sample Taken	Matrix Water (W) Soil (S) Sludge (Sl) Other	G R A B	C O M P	Client I.D. Sample Location	Temp C, F	No. of Container (p)=plastic (g)=glass	Size of Container 1L, 500mL, 250mL, etc.	Analysis Requested	Sample Presv.
10w1812223	12/13/18	0800	Water (W)	X		Effluent		1 (p)	1 L	BOD	
↓	12/13/18	0800	Water (W)	X		Effluent		1 (p)	1 L	TSS	
↓	12/13/18	0900	Water (W)	X		Effluent		1 (p)	125mL	E. Coli (MPN/100mL)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>

Comments:

bed on ice <6°C

Sampled By: <i>Roy Mickler</i>	Date/Time: 12/13/18/0947	Received By: <i>[Signature]</i>	Date/Time: 12-13-18 0947
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished to Lab By: <i>[Signature]</i>	Date/Time: 12-13-18 1550	Received at Lab By: <i>[Signature]</i>	Date/Time: 12-13-18 1550

Report To: \_\_\_\_\_

Send Invoice To: \_\_\_\_\_

Address: \_\_\_\_\_

Address: \_\_\_\_\_

Phone/Fax Number: \_\_\_\_\_

Phone/Fax Number: \_\_\_\_\_

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## CHAIN OF CUSTODY

Client Name: HARTSHORNE

PROJECT NAME: \_\_\_\_\_

Lab Log #	Date Sample Taken	Time Sample Taken	Matrix Water (W) Soil (S) Sludge (Sl) Other	G R A B	C O M P	Client I.D. Sample Location	Temp C, F	No. of Container (p)=plastic (g)=glass	Size of Container 1 L, 500mL, 250mL, etc.	Analysis Requested	Sample Presv.
ww1812367	12/20/18	1300	Water (W)	X		Effluent		1 (p)	1 L	BOD	
↓	12/20/18	1300	Water (W)	X		Effluent		1 (p)	1 L	TSS	
↓	12/20/18	1300	Water (W)	X		Effluent		1 (p)	125mL	E. Coli (MPN/100mL)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>

Comments:

lead on ice <6 oe

Sampled By: <i>Roy Mickle</i>	Date/Time: 12/20/18/1300	Received By: <i>[Signature]</i>	Date/Time: 12-20-18 1300
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished to Lab By: <i>[Signature]</i>	Date/Time: 12-20-18 1539	Received at Lab By: <i>[Signature]</i>	Date/Time: 12-20-18 1539

Report To: \_\_\_\_\_

Address: \_\_\_\_\_

Send Invoice To: \_\_\_\_\_

Phone/Fax Number: \_\_\_\_\_

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## CHAIN OF CUSTODY

Client Name: **HARTSHORNE**

PROJECT NAME : \_\_\_\_\_

Lab Log #	Date Sample Taken	Time Sample Taken	Matrix Water (W) Soil (S) Sludge (Sl) Other	G R A B	C O M P	Client I.D. Sample Location	Temp C, F	No. of Container (p)=plastic (g)=glass	Size of Container 1L, 500mL, 250mL, etc.	Analysis Requested	Sample Presv.
WA1812438	12/27/18	0900	Water (W)	X		Effluent		1(p)	125mL	E. Coli (MPN/100mL)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>

Comments:

Recid on ice < 6 °C

Sampled By: <i>Roy Mickle</i>	Date/Time: 12/27/18 0943	Received By: <i>[Signature]</i>	Date/Time: 12-27-18
Relinquished By:	Date/Time:	Received at Lab By: <i>[Signature]</i>	Date/Time: 12-27-18 1457

Report To:

Send Invoice To:

Address:

Address:

Phone/Fax Number:

Phone/Fax Number:

**National Pollutant Discharge Elimination System (NPDES)  
Oklahoma Department of Environmental Quality Discharge Monitoring Report (DMR)**

PERMITTEE NAME: Hartshorne, City of  
 MAILING 1101 Penn Ave  
 ADDRESS: Hartshorne, OK 74547  
 FACILITY: CITY OF HARTSHORNE  
 LOCATION: 1101 Penn Ave  
 Hartshorne, OK 74547

PERMIT NUMBER: **OK0022861**  
 MONITORING POINT: 001A

Pittsburg

COUNTY:

Monitoring Period : 2018-12-01 To: 2018-12-31

NO DISCHARGE FROM SITE: ( )

Parameter	Sample Measurement	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
OXYGEN, DISSOLVED (DO)	Sample Measurement	*****	*****	4.1	*****	0	Daily	GRAB
PARAM CODE: 00300	Permit Requirement	*****	*****	4 Monthly Minimum	*****	19	Daily	GRAB
Stage Code: 1 Effluent Gross				*****				
BOD, 5-DAY (20 DEG. C)	Sample Measurement	< 2.1	*****	< 2.0	< 2.0	0	Three Per Month	GRAB
PARAM CODE: 00310	Permit Requirement	83.4 Monthly Average	26 lbs/day	20 Monthly Average	30 Weekly Average	19	Three Per Month	GRAB
Stage Code: 1 Effluent Gross				*****				
PH	Sample Measurement	*****	*****	7.0	7.5	0	Daily	GRAB
PARAM CODE: 00400	Permit Requirement	*****	*****	6.5 Minimum	9 Maximum	12	Daily	GRAB
Stage Code: 1 Effluent Gross				*****				
SOLIDS, TOTAL SUSPENDED	Sample Measurement	8.3	*****	6.8	11.7	0	Three Per Month	GRAB
PARAM CODE: 00530	Permit Requirement	125 Monthly Average	26 lbs/day	30 Monthly Average	45 Weekly Average	19	Three Per Month	GRAB
Stage Code: 1 Effluent Gross				*****				
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	Sample Measurement	0.179	0.404	*****	*****	0	Daily	INSTAN
PARAM CODE: 50050	Permit Requirement	Report Monthly Average	03 MGD	Report Maximum Daily	*****		Daily	INSTAN
Stage Code: 1 Effluent Gross				*****				

Name/Title of Principal Executive Officer Or Authorized Agent	Signature of Principal Executive Officer Or Authorized Agent	Telephone No	Date (MM/DD/YY)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)