



April 16, 2019

Client: Perkins PWA

PO Box 9

Perkins, OK 74059

Requested By: Janet Noe



National Environmental Laboratory Accreditation Program
Kansas CERT # E-10219

Sample Project Name:

Date Samples Received: April 10, 2019 Time: 8:45 sample temp upon arrival at lab = 18°C

Matrix: Drinking Water

Lab Log Numbers: **BD10002-01** **BD10002-02** **BD10002-03** **BD10002-04**

Work Order: BD10002

Report # BD10002-0416191545

EPA Lab ID#'s: **Stillwater OK00092** **Tulsa OK00983** **OKC OK00129** **ICR OK 001**

Oklahoma Certification: Stillwater WasteWater, DEQ 8316/ Drinking Water, DEQ D9602
Tulsa WasteWater, DEQ 9905 / Drinking Water, DEQ D9901
Oklahoma City WasteWater DEQ 7202 / Drinking Water, DEQ D9937

Kansas Certification: Stillwater NELAP CERT # E-10219
Oklahoma City NELAP CERT # E-10414

New Hampshire Cert.: Oklahoma City Drinking Water NH ELAP Lab ID # 2072

Texas Certification: Stillwater Drinking Water NELAP CERT # T105704533-14-1

Method Reference: 40 CFR 136, 141, and 261 Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020, March 1983. Test Methods for Evaluating Solid Wastes, SW-846, Final Update III. Standard Methods 1998 (20th Edition), Standard Methods 2005 (21st Edition) and Standard Methods 2011 (22nd Edition) for the Examination of Water and Wastewater.

Analysis Reference: If qualifiers present in "Prep Info" or "Analysis Info", then analysis performed as follows: @= Tulsa Lab and * = OKC Lab. If no qualifiers present, then analysis performed at Stillwater Lab.

Accurate Environmental Laboratories certify that the test results performed at the Stillwater lab meet all requirements of NELAP. Any exceptions to this can be found in the report footer or Quality Control Section of the report.

This report is to only be replicated in its entirety.

Accurate Environmental sampling protocol was followed for any sampling performed by Accurate Field Services.

Sample: Well 1/TP001

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 4/10/19 7:00

Lab Log# BD10002-01

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Iron (Fe) EPA 200.7	Iron	0.285 mg/L		0.075	04/12/19 15:35 RW	04/15/19 18:55 RW
Manganese (Mn) EPA 200.7	Manganese	BPQL mg/L		0.025	04/12/19 15:35 RW	04/15/19 18:55 RW

Sample: Well 2/TP002

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 4/10/19 7:15

Lab Log# BD10002-02

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Iron (Fe) EPA 200.7	Iron	0.176 mg/L		0.075	04/12/19 15:35 RW	04/15/19 18:58 RW
Manganese (Mn) EPA 200.7	Manganese	BPQL mg/L		0.025	04/12/19 15:35 RW	04/15/19 18:58 RW

Sample: Ampride Well/TP007

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 4/10/19 7:30

Lab Log# BD10002-03

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Iron (Fe) EPA 200.7	Iron	1.72 mg/L	MCL	0.075	04/12/19 16:30 PD	04/15/19 14:18 RW
Manganese (Mn) EPA 200.7	Manganese	BPQL mg/L		0.025	04/12/19 16:30 PD	04/15/19 14:18 RW

Sample: Sonic Well/SW

Location Code:

PWSID#:

Collection Type: Grab

Sample Time: 4/10/19 7:45

Lab Log# BD10002-04

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
Iron (Fe) EPA 200.7	Iron	0.915 mg/L	MCL	0.075	04/12/19 15:35 RW	04/15/19 19:02 RW
Manganese (Mn) EPA 200.7	Manganese	0.046 mg/L		0.025	04/12/19 15:35 RW	04/15/19 19:02 RW

Notes and Definitions

MCL Analyte concentration may exceed Maximum Contaminant Limit (MCL) for EPA Primary or Secondary Drinking Water Regulations.

Analyte concentration may exceed regulatory limit.

PQL Practical Quantitation Limit - the method reporting limit (MRL) adjusted for any dilutions or other changes made to the sample to deal with interferences/matrix effects

BPQL Below Practical Quantitation Limit (if applicable).

The "Prep Date" of the QC analysis coincides with the characters of the appropriate QC Lab ID. (Example: 19 A 02 15 - BLK = 2019, Jan 2, Batch #15 - Blank)

Lab Manager

A handwritten signature in black ink on a light gray background. The signature appears to be "Dg Cu" written in a cursive style.

Quality Control Data

Blank Data

QC Lab #	Test Group	Test	Result	PQL	Flags
19D1261-BLK1	Iron (Fe) EPA 200.7	Iron	BPQL mg/L	0.075	
19D1266-BLK1	Iron (Fe) EPA 200.7	Iron	BPQL mg/L	0.075	
19D1261-BLK1	Manganese (Mn) EPA 200.7	Manganese	BPQL mg/L	0.025	
19D1266-BLK1	Manganese (Mn) EPA 200.7	Manganese	BPQL mg/L	0.025	

Laboratory Control Sample Data

Lab QC#	Test Group	Test Name	LCS Result	Spike Level	Units	% Rec.	Control Limits	Flags
19D1261-BS1	Iron (Fe) EPA 200.7	Iron	1.95	2.000	mg/L	98	85 - 115	
19D1261-BS1	Manganese (Mn) EPA 200.7	Manganese	1.92	2.000	mg/L	96	85 - 115	
19D1266-BS1	Iron (Fe) EPA 200.7	Iron	1.99	2.000	mg/L	100	85 - 115	
19D1266-BS1	Manganese (Mn) EPA 200.7	Manganese	1.99	2.000	mg/L	100	85 - 115	

Matrix Spike Data

QC Lab #	Test Group	Test Name	Source Sample	Sample Result	Units	Spike Result	Spike Level	% Rec.	Acceptance Limits	Flags
19D1266-MS1	Iron (Fe) EPA 200.7	Iron	BD10002-01	0.285	mg/L	10.8	10.00	105	85 - 115	
19D1266-MS1	Manganese (Mn) EPA 200.7	Manganese	BD10002-01	0.012	mg/L	10.4	10.00	104	85 - 115	

Matrix Spike Duplicate Data

QC Lab #	Test Group	Test Name	Sample Result	Spike Result	Spike Level	Units	% Rec.	Rec. Limits	% RPD	RPD Limit	Flags
19D1266-MSD1	Iron (Fe) EPA 200.7	Iron	0.285	10.8	10.00	mg/L	105	85-115	0	20	
19D1266-MSD1	Manganese (Mn) EPA 200.7	Manganese	0.012	10.4	10.00	mg/L	104	85-115	0.5	20	

* Complete Entire COC to be in Compliance*

RUSH

Due Date _____



Chain of Custody

Client Name- **Perkins PWA**
 Project Name- _____

Sample Preserv. & Container →	ICE: 500 mL Plastic						
Analysis Requested →	Iron, Manganese						
# of Container ↓							

Accurate Work Order #	Date Sample Taken	Time Sample Taken	Matrix or Source (Refer. below)	Grab (G) or Comp (C)	Client I.D. / Sample Location or DEQ / EPA Location Code	Field Results (pH, Temp, Chlorine, ...) (note analysis & units)	
						Location Code	
B019002-01	04/10/19	07:00	DW	G	Well 1/TP001	TP001	
-02	04/10/19	07:15	DW	G	Well 2/ TP002	TP002	
-03	04/10/19	07:30	DW	G	Ampride Well/TP007	TP007	
-04	04/10/19	07:45	DW	G	Sonic Well/ SW	SW	

On-Site Info	Raw Alkalinity (TOC Raw)= _____ mg/L	Turbidity (E.Coli)= _____ ntu	Field Instrument Calibration -				
Matrix Codes	DW = Drinking water ; WW = Wastewater ; SL = Sludge ; O = Other _____		Meter Type	Standards	Final Read.	Date , Time	Initials
E.Coli Source	GWUDI-FS= Groundwater under direct influence of Flowing Stream GWUDI-RL= Groundwater under direct influence of Reservoir/Lake						

Comments
 040919 tkw **Non-Compliant**

-- All Glass containers provided by Accurate Labs have Teflon lined lids --
 -- All samples are scheduled to be disposed of in 4 weeks of receipt at Accurate. --
 -- Hazardous samples will be returned to client or will be disposed of for a fee --

Certification by Company Official: I hereby certify that the above sampling occurred during a period such that the sample(s) is/are representative of a typical operating day discharge for the above facility. **Signature:** **Date/Time:** 4-10-19 0800

Sampled By: _____ **Company:** _____ **Sample Method:** _____

Relinquished By: **Date/Time:** 4-10-19 0800 **Received By:** **Date/Time:** 4-10-19 0800

Relinquished to Lab By: **Date/Time:** 4-10-19 0845 **Received at Lab By:** **Rec'd °C:** 18.7 **Date/Time:** 4/10/19 0845

Reporting Requirements (standard 10-15 working days) **Compliance Reporting?** Yes or **No** (DMR, PWS,) **Oklahoma PWS ID #** **OK2006012** **RUSH Request** (if available) _____ (Working Days)

Mail Report To: Janet Noe City of Perkins Address: P.O. Box 9 Perkins, OK 74059 Phone #: 405-714-7859 Fax #: 405-547 - 5440 Email: jnoe@cityofperkins.net	Mail Invoice To: Accounts Payable City of Perkins Address: PO Box 9 Perkins, OK 74059 Phone #: 405-547-2445 Fax #: 405-547-5440
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