Accurate Environmental Laboratories

September 08, 2023

Client: Perkins PWA

PO Box 9

Perkins, OK 74059

Requested By: -

National Environmental Laboratory Accreditation Program
ODEQ TNI Certified

Sample Project Name:	SDWIS Analysis Aug Yearly
Date Samples Received:	August 31, 2023 Time: 11:06 sample temp upon arrival at lab = 17.30°C - On Ice
Matrix:	Drinking Water
Lab Log Numbers:	**FH31037-01**
Work Order:	FH31037
Report #	FH31037-0908230844
EPA Lab ID#'s:	**Stillwater OK00092 Tulsa OK00983 OKC OK00129 ICR OK 001**
Oklahoma Certification:	Stillwater NELAP WasteWater, ODEQ 8316/ Drinking Water, DEQ D9602 NELAP Tulsa WasteWater, ODEQ 9905 / Drinking Water, DEQ D9901 Oklahoma City NELAP WasteWater ODEQ 7202 / Drinking Water, DEQ D9937
Kansas Certification:	Stillwater NELAP CERT # E-10219
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 VI. Standard Methods 2005 (21st Edition), Standard Methods 2011 (22nd Edition), Standard Methods 2017 (23rd 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 notes, Quality Control section, or Method/Parameter section of the report.

- No cert. = Laboratory does not carry certifcation for this method/analysis.
- Non-TNI = Laboratory has state certification but method does not fall under TNI certification.

This report is to only be replicated in its entirety.

Revised or Amended reports supersede all previous reports.

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

Field accreditation certification only applies to wastewater analysis. Field analysis is performed based on lab accreditation for appropriate drinking water methods until field certification program expands to include drinking water analysis.

Sample: ***WWTF - 125 S. Cimeron St. Perkins, OK*** **Location Code:** HAA5_02 **PWSID#:** OK2006012

Collection Type: Grab Sample Time: 8/31/23 10:25 **Lab Log#** FH31037-01

Method/Parameter	Test	Result	Notes	PQL#	Prep Info	Analysis Info
THMs by EPA Method 524.3	Chloroform	BPQL ug/L		1.00	09/06/23 09:59 MW	09/06/23 15:26 MW
THMs by EPA Method 524.3	Bromodichloromethane	BPQL ug/L		1.00	09/06/23 09:59 MW	09/06/23 15:26 MW
THMs by EPA Method 524.3	Dibromochloromethane	1.68 ug/L		1.00	09/06/23 09:59 MW	09/06/23 15:26 MW
THMs by EPA Method 524.3	Bromoform	13.3 ug/L		1.00	09/06/23 09:59 MW	09/06/23 15:26 MW
THMs by EPA Method 524.3	Total THMs	15.0 ug/L		1.00	09/06/23 09:59 MW	09/06/23 15:26 MW
HAAs by EPA Method 552.2	Monochloroacetic acid	BPQL ug/L		2.00	09/01/23 08:39 HAK	09/02/23 07:42 JDR
HAAs by EPA Method 552.2	Monobromoacetic acid	BPQL ug/L		1.00	09/01/23 08:39 HAK	09/02/23 07:42 JDR
HAAs by EPA Method 552.2	Dichloroacetic acid	BPQL ug/L		1.00	09/01/23 08:39 HAK	09/02/23 07:42 JDR
HAAs by EPA Method 552.2	Dibromoacetic acid	1.83 ug/L		1.00	09/01/23 08:39 HAK	09/02/23 07:42 JDR
HAAs by EPA Method 552.2	Trichloroacetic acid	BPQL ug/L		1.00	09/01/23 08:39 HAK	09/02/23 07:42 JDR
HAAs by EPA Method 552.2	Total HAAs	1.83 ug/L		1.00	09/01/23 08:39 HAK	09/02/23 07:42 JDR

Notes and Definitions

#44	RPD is outside of acceptance limits. This failure does not invalidate data reported.
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

Quality Control Data

Blank Data

QC Lab #	Test Group	Test	Result	PQL	Flags
23I0625-BLK1	THMs by EPA Method 524.3	Chloroform	BPQL ug/L	1.00	
23I0625-BLK1	THMs by EPA Method 524.3	Bromodichloromethane	BPQL ug/L	1.00	
23I0625-BLK1	THMs by EPA Method 524.3	Dibromochloromethane	BPQL ug/L	1.00	
23I0625-BLK1	THMs by EPA Method 524.3	Bromoform	BPQL ug/L	1.00	
23I0625-BLK1	THMs by EPA Method 524.3	Total THMs	BPQL ug/L	1.00	
23I0102-BLK1	HAAs by EPA Method 552.2	Monochloroacetic acid	BPQL ug/L	2.00	
23I0102-BLK1	HAAs by EPA Method 552.2	Monobromoacetic acid	BPQL ug/L	1.00	
23I0102-BLK1	HAAs by EPA Method 552.2	Dichloroacetic acid	BPQL ug/L	1.00	
23I0102-BLK1	HAAs by EPA Method 552.2	Dibromoacetic acid	BPQL ug/L	1.00	
23I0102-BLK1	HAAs by EPA Method 552.2	Trichloroacetic acid	BPQL ug/L	1.00	
23I0102-BLK1	HAAs by EPA Method 552.2	Total HAAs	BPQL ug/L	1.00	

Laboratory Control Sample Data

Lab QC#	Test Group	Test Name	LCS Result	Spike Level	Units	% Rec.	Control Limits	Flags
23I0625-BS1	THMs by EPA Method 524.3	Chloroform	48.6	50.00	ug/L	97	81.2 - 120	
23I0625-BS1	THMs by EPA Method 524.3	Bromodichloromethane	48.1	50.00	ug/L	96	80.7 - 121	
23I0625-BS1	THMs by EPA Method 524.3	Dibromochloromethane	50.0	50.00	ug/L	100	81.4 - 120	
23I0625-BS1	THMs by EPA Method 524.3	Bromoform	50.0	50.00	ug/L	100	77.2 - 127	
23I0625-BS2	THMs by EPA Method 524.3	Chloroform	101	100.0	ug/L	101	81.2 - 120	
23I0625-BS2	THMs by EPA Method 524.3	Bromodichloromethane	101	100.0	ug/L	101	80.7 - 121	
23I0625-BS2	THMs by EPA Method 524.3	Dibromochloromethane	104	100.0	ug/L	104	81.4 - 120	
23I0625-BS2	THMs by EPA Method 524.3	Bromoform	103	100.0	ug/L	103	77.2 - 127	
23I0625-MRL1	THMs by EPA Method 524.3	Chloroform	1.05	1.000	ug/L	105	50 - 150	
23I0625-MRL1	THMs by EPA Method 524.3	Bromodichloromethane	1.05	1.000	ug/L	105	50 - 150	
23I0625-MRL1	THMs by EPA Method 524.3	Dibromochloromethane	1.08	1.000	ug/L	108	50 - 150	
23I0625-MRL1	THMs by EPA Method 524.3	Bromoform	1.08	1.000	ug/L	108	50 - 150	
23I0102-BS1	HAAs by EPA Method 552.2	Monochloroacetic acid	8.55	8.000	ug/L	107	91.6 - 130	
23I0102-BS1	HAAs by EPA Method 552.2	Monobromoacetic acid	8.40	8.000	ug/L	105	87.2 - 128	
23I0102-BS1	HAAs by EPA Method 552.2	Dichloroacetic acid	8.56	8.000	ug/L	107	88.6 - 130	
23I0102-BS1	HAAs by EPA Method 552.2	Dibromoacetic acid	6.66	8.000	ug/L	83	77 - 130	
23I0102-BS1	HAAs by EPA Method 552.2	Trichloroacetic acid	8.09	8.000	ug/L	101	82.4 - 125	
23I0102-MRL1	HAAs by EPA Method 552.2	Monochloroacetic acid	2.22	2.000	ug/L	111	50 - 150	
23I0102-MRL1	HAAs by EPA Method 552.2	Monobromoacetic acid	1.08	1.000	ug/L	108	50 - 150	
23I0102-MRL1	HAAs by EPA Method 552.2	Dichloroacetic acid	1.03	1.000	ug/L	103	50 - 150	
23I0102-MRL1	HAAs by EPA Method 552.2	Dibromoacetic acid	1.10	1.000	ug/L	110	50 - 150	
23I0102-MRL1	HAAs by EPA Method 552.2	Trichloroacetic acid	0.754	1.000	ug/L	75	50 - 150	

Quality Control Data

LCS Duplicate Data

QC Lab#	Test Group	Test Name	LCS % Rec.	LCS Dup % Rec.	Recovery Limits	RPD	RPD Limit	Flags
23I0102-BSD1	HAAs by EPA Method 552.2	Monochloroacetic acid	107	114	91.6 - 130	6	20	
23I0102-BSD1	HAAs by EPA Method 552.2	Monobromoacetic acid	105	111	87.2 - 128	6	20	
23I0102-BSD1	HAAs by EPA Method 552.2	Dichloroacetic acid	107	114	88.6 - 130	7	20	
23I0102-BSD1	HAAs by EPA Method 552.2	Dibromoacetic acid	83	104	77 - 130	22	20	#44
23I0102-BSD1	HAAs by EPA Method 552.2	Trichloroacetic acid	101	107	82.4 - 125	6	20	

Quality Control Data

Surrogate Recovery Data

QC Lab#	Test Group	Test Name	% Recovery	Recovery Limits	Flags
23I0625-BLK1	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	101	85 - 115	
23I0625-BLK1	THMs by EPA Method 524.3	4-Bromofluorobenzene	93	85 - 115	
23I0625-BLK1	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	97	78.5 - 115	
23I0625-BS1	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	97	85 - 115	
23I0625-BS1	THMs by EPA Method 524.3	4-Bromofluorobenzene	97	85 - 115	
23I0625-BS1	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	94	78.5 - 115	
23I0625-BS2	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	100	85 - 115	
23I0625-BS2	THMs by EPA Method 524.3	4-Bromofluorobenzene	100	85 - 115	
23I0625-BS2	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	98	78.5 - 115	
FH31037-01	THMs by EPA Method 524.3	1,2-Dichlorobenzene-d4	101	85 - 115	
FH31037-01	THMs by EPA Method 524.3	4-Bromofluorobenzene	101	85 - 115	
FH31037-01	THMs by EPA Method 524.3	Methyl t-butyl ether-d3	99	78.5 - 115	
23I0102-BLK1	HAAs by EPA Method 552.2	2-Bromobutanoic Acid	102	70 - 130	
23I0102-BS1	HAAs by EPA Method 552.2	2-Bromobutanoic Acid	104	70 - 130	
23I0102-BSD1	HAAs by EPA Method 552.2	2-Bromobutanoic Acid	104	70 - 130	
FH31037-01	HAAs by EPA Method 552.2	2-Bromobutanoic Acid	89	70 - 130	

* Complete Entire COC to be in Compliance*

☐ RUSH Due Date _____

Chain of Custody

Accurate Environmental Labs

Client Name- **Perkins PWA**

Project Name- SDWIS Analysis Aug Yearly

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	Chlorine (mg/L)		Sample Preserv. & Container →	Ice NH4CL 60 mL Vials	Ice Na2S2O3 40 mL Vials	In Field				
									Analysis Requested →	HAA	THM	Total Chlorine				
FH31037									# of Container ↓							
·01	8·31·23	10:25	DW	G	WWTF- 125 S. Cimeron St. Perkins, OK	HAA5_02	0.10		4	2	2	*				

On-Site Info Raw **Alkalinity** (TOC Raw)= _____ mg/L **Turbidity** (E.Coli)= _____ ntu

Matrix Codes **DW** = Drinking water ; **WW** = Wastewater ; **SL** = Sludge ; **O** = Other_____

E.Coli Source- **GWUDI-FS**= Groundwater under direct influence of Flowing Stream **GWUDI-RL**= Groundwater under direct influence of Reservoir/Lake

Comments Please include chlorine result.

Field Instrument Calibration -

Meter Type	Standards	Final Read.	Date , Time	Initials

- - 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 8.31.23 10:25

Sampled By: _____ Company: CITY OF PERKINS Sample Method: _____

Relinquished By: _____ Date/Time 8-31-23 Received By: _____ Date/Time 8-31-23 10:43

☒ Relinquished to Lab By: _____ Date/Time 8-31-23 11:06 Received at Lab By: _____ Rec'd °C 17.3 ice Date/Time 8.31.23 11:06

☐ Relq'd to Log-In Fridge By: _____

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: *City of Perkins*

Address: PO Box 9
Perkins, OK 74059

Phone #: 405-714-7859 Fax #: 405-547-5440

Email: cityclerk@cityofperkins.net

Mail Invoice: Accounts Payable
City of Perkins

Address: PO Box 9
Perkins, OK 74059

cityclerk@cityofperkins.net

Phone #: 405-547-2445 Fax #: 405-547-5440

Bid # - _____

PO # - _____

www.accuratelabs.com (800) 516-5227

505 South Lowry Street, Stillwater, OK 74074 Phone: (405) 372-5300 Fax: (405) 372-5396

3910 East 51st Street, Tulsa, OK 74135 Phone: (918) 663-5400 Fax: (918) 663-6300

12036 N. Pennsylvania, Oklahoma City, OK 73120 Phone: (405) 751-3132 Fax: (405) 751-3108

Failure to complete this Chain of Custody form correctly may delay turnaround time of analytical reporting.