

Monitoring Summary for KIVALINA WATER SYSTEM

Public water system ID#AK2340117

Population: 452

February 7, 2024

Community Water System, Surface water

Requirement	Sample Point ID	Required Sampling Frequency	Last Sample	Next Sample
Sanitary Survey		Every 3 years	09/29/2021	2024
DS WULIK RIVER (Facility ID:DS001)				
COLIFORM (TCR)	SPDS001TCR	1 sample(s) monthly	11/14/2023	Monthly, according to Sample Siting Plan
LEAD AND COPPER	SPDS001PC	5 sample(s) every 3 years	01/16/2024	Contact EPS Prior to Scheduling
TOTAL TRIHALOMETHANE	SPDS1DBP2-T	1 sample(s) annually	02/27/2023	See stage 2 sampling detail information below
HAA5 (HALOACETIC)	SPDS1DBP2-H	1 sample(s) annually	01/18/2024	See stage 2 sampling detail information below
TP FOR WULIK RIVER (Facility ID:TP001)				
SOC	SPTP001		12/20/2005	Submit SOC waiver renewal application by Sept 30, 2024
NITRATE	SPTP001	1 sample(s) annually	02/27/2023	2024
VOC	SPTP001	1 sample(s) annually	02/27/2023	2024
TOTAL GROSS ALPHA	SPTP001	1 sample(s) per 9 year cycle	11/18/2015	Between 2017 and 2025
RADIUM 226 AND 228	SPTP001	1 sample(s) per 9 year cycle	08/17/2016	Between 2017 and 2025
ARSENIC - SINGLE	SPTP001	1 sample(s) per 9 year cycle	02/24/2020	Between 2029 and 2037
INORGANICS	SPTP001	1 sample(s) per 9 year cycle	11/30/2020	Between 2029 and 2037

Stage 2 Sampling Detail Information - Sample frequency listed in requirements above

Contaminant	Sample Pt. ID	Location	Sample Count	Sample Dates
TTHM	SPDS1DBP2-T	WTP- WASHETERIA	1	February 2024
HAA5	SPDS1DBP2-H	WTP- WASHETERIA	1	November 2024

Operator Report

Requirement	Location	Sampling Frequency	Last Report	
TURBIDITY	After Filters	1 sample daily, when filtering water	12/01/2023	Test and record daily. Send reports to ADEC on the last day of the month (before the 10th day of the following month).
CHLORINE	Distribution System	Same time/place as routine TCR sample	02/01/2024	
CHLORINE	Entry Point	1 sample daily (maintain residual ≥0.2 mg/L when filtering)	12/01/2023	

Compliance Schedules

Schedule/Action	Due	Comments
LCRR		
SUBMIT LSLI CERTIFICATION	12/29/2023	OVERDUE: LSLI draft completed 07/07/2023 by Feyne Evans and sent to PWS for review 11/29/2023. Cert form due back 12/29/2023 (FE)
COMPLETE INITIAL LSL INVENTORY	10/16/2024	

Sanitary Survey Corrective Actions

CORRECTIVE ACTION	09/30/2023	OVERDUE: The overflow line for the treated water storage tank is not screened. The overflow must be properly screened.
CORRECTIVE ACTION	09/30/2023	OVERDUE: There are no calibration standards available for the turbidimeter and the turbidimeter is not being calibrated regularly. The system must obtain proper calibration standards and a set of verification samples so the operator has the means to verify the instrument is operating properly. In addition, the instrument must be calibrated every three months following manufacturer recommendations.
CORRECTIVE ACTION	09/30/2023	OVERDUE: There is no backflow prevention device installed on the watering point supply line. As noted in the last sanitary survey report, a pipe applied vacuum breaker may be used if it can be properly installed after the solenoid valve with no downstream valves. Otherwise, a double check valve or reduced pressure zone assembly must be installed. In addition, it is unclear if the watering hose is certified to drinking water standards. Please ensure the hose is certified to NSF/ANSI 61 Standards.
CORRECTIVE ACTION	09/30/2023	OVERDUE: The air gaps between both the Strainrite filter drain lines and the floor drain are inadequate. Air gaps must be at least two times the diameter of the drain lines above the floor drain and must be maintained at all times.
CORRECTIVE ACTION	08/31/2024	Deficiency will be resolved with new water treatment plant project. The automated disinfection flow controls are being bypassed and chlorine injection is operated and monitored manually. The disinfection system must be controlled by a flow switch to ensure the disinfectant is only being added when water is flowing and to help prevent chemical overfeed. As the flow switch and designated outlet have not been used for this purpose since at least 2018, it will be important for the equipment to be tested initially and checked periodically thereafter to ensure the flow switch is operating as designed.
CORRECTIVE ACTION	08/31/2024	This will be addressed with their new modular WTP. The solo valve installed in the pressure sand filter does not provide adequate backflow prevention. It is the Department's understanding that the upcoming project to replace the current water treatment plant will address this issue. In the interim, the system must always ensure the valve is positioned correctly during backwash cycles. If any issues arise, please inform the Department immediately.

Consumer Confidence Report

CCR - SUBMITTAL	06/30/2024	
CCR - CERTIFICATION PAGE	09/30/2024	

LCNT

LCR- CONSUMER NOTICE DUE TO CONSUMER	03/01/2024	Within 30 days of learning the lead and copper results, all systems must provide individual lead tap results to people who receive water from sites that were sampled, regardless of whether the results exceed the lead action level, 40 CFR 141.85(d).
LCR- CONSUMER NOTICE CERT. DUE TO STATE	04/30/2024	Once Lead notices have been posted, submit certification form to the State.

**NSF = No sample found

- 1) Periods are three years in length. The current period is 1/1/2023 - 12/31/2025 and the next period will be 1/1/2026 - 12/31/2028. Cycles are nine years in length. The current cycle is from 1/1/2020 - 12/31/2028 and the next cycle is 1/1/2029 - 12/31/2037.
- 2) Periods for radionuclides (gross alpha, radium 226/228, and uranium) are three or six years in length. The current 6 year period is 01/01/2020 - 12/31/2025, the next 6 year period will be 01/01/2026 - 12/31/2031. Cycles for radionuclides are nine years in length. The current cycle is from 01/01/2017 - 12/31/2025 and the next cycle is 01/01/2026 - 12/31/2034.
- 3) WL (well) or TP (treatment plant) is the entry point to the distribution system, except for raw water samples and WL (well) is the raw water tap. DS (distribution system) is the home and buildings that receive water from a piped water system.
- 4) Water quality parameters are tested in order to conduct a corrosion control study. Please contact your engineer, health corporation, or certified laboratories for assistance.
- 5) Lead/Copper samples on an annual or 3 year schedule should be collected in month of warmest water temperature.
- 6) Water systems with multiple water sources that do not combine before entering the distribution must take one sample from each entry point to the distribution and may do a composite sample according to 18AAC80.325(17), 18AAC80.315(4).
- 7) SOC waiver renewal forms are due every three year period. SOC waiver, new and renewal, forms can be found at <http://dec.alaska.gov/eh/dw/soc/>.
- 8) Each public water system is required to have a water operator (or operators) certified at or above the drinking water treatment and drinking water distribution level assigned to the system. To check on current level of certification for your water operator please see the Alaska Certified Water/Wastewater Operator Database maintained by the Division of Water: <https://dec.alaska.gov/Applications/Water/OpCert/Home.aspx?p=OperatorSearch>. If you have questions regarding the water system level or the operator certification level please contact Operator Certification at 907-465-1139 or at dec.water.fco.opcert@alaska.gov.

Monitoring Summaries reflect sample results the Drinking Water Program has record of at the time the summary is drafted (see date at top of summary). If information appears incorrect or is inconsistent with previous monitoring summaries please contact DW staff. Monitoring summaries are part of the DW Program's compliance assistance efforts to summarize requirements to help water systems stay in compliance. However, they do not cover all items that may be required of a Public Water System (PWS), nor does it supersede the regulation requirement as outlined in the Code of Federal Regulations or the Alaska Administrative Code. The PWS owner/operator is required to understand or seek assistance in understanding what regulations apply to their PWS.

Monitoring summary completed by Jennifer Roberts, Environmental Program Specialist/ADEC. If you have any questions please contact ADEC at 907-451-2137 or 1-866-770-2137 Email: jenny.roberts@alaska.gov Fax: (907) 451-2188.

Sincerely,

Jennifer Roberts
Environmental Program Specialist