

# How to Read the Monitoring Summary

The annual monitoring summary outlines the sampling, reporting, and other requirements for a public water system (PWS). This should be used as a planning document to help the PWS remain in compliance with the State of Alaska Drinking Water Regulations, 18 AAC 80.

## Monitoring Summary for EXAMPLE WATER SYSTEM

Public water system ID#AK2XXXXXX

Population: 669

January 7, 2016

Community Water System, Ground water under the influence of surface water

Requirement	Required Sampling Frequency	Last Sample	Next Sample
Sanitary Survey	Every 3 years	09/23/2014	2017
<b>DS001 DS GAMBELL DISTRIBUTION SYSTEM</b>			
LEAD AND COPPER	2 consecutive 6 month sets, 20 sample(s) per set	09/29/2015	2016
COLIFORM (TCR)	1 sample(s) monthly	12/02/2015	Monthly
TTHM & HAA5 (DBP2)	1 sam		
<b>TP002 TP DIRECT FILTRATION FOR GA</b>			
SOC	1 sam		
NITRATE	1 sample(s) annually	08/20/2015	2016
VOC	1 sample(s) annually	08/20/2015	2016
ARSENIC - SINGLE	1 sample(s) per 9 year cycle	10/25/2011	Between 2020 and 2028
RADIUM 226 AND 228	1 sample(s) per 9 year cycle	09/23/2014	Between 2017 and 2025
TOTAL GROSS ALPHA	1 sample(s) per 9 year cycle	10/29/2012	Between 2020 and 2028
INORGANICS	1 sample(s) per 9 year cycle	11/18/2014	Between 2020 and 2028

**How to read the Monitoring Summary section is discussed on pages 2-4.**

### Stage 2 Sampling Detail Information -

Contaminant	Location
DBP2	LOOP-B END

**How to read the Stage 2 Sampling Detail section is discussed on pages 5-6.**

### Operator Report

Requirement	Location
TURBIDITY	After Filters
CHLORINE	Distribution System
CHLORINE	Entry Point

**How to read the Operator Report section is discussed on page 7.**

### Compliance Schedules

Lead/Copper Exceedance Schedule
PBCU EXC SCHED - FLW UP PBCU SAMPLING

**How to read the Compliance Schedules and End Notes section is discussed on pages 8-9.**

### Emergency Preparedness Regulation

EPR-PMP CERTIFICATION	08/20/2013	CWS serving population less than 1000, required to complete PMP.
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# Section 1: Monitoring Summary

A. General information about the water system is included at the top of the monitoring summary.

- ① Water System Name
- ② Public Water System Identification Number (PWSID)
- ③ Federal Water System Type & Source Water Type
- ④ Total Population Served
- ⑤ Date Monitoring Summary was created & saved to Drinking Water Watch

**Monitoring Summary** ① **EXAMPLE WATER SYSTEM** ② **Public water system ID#AK2XXXXXX** ④ **Population: 669** ⑤ **January 7, 2016**  
 ③ Community Water System, Ground water under the influence of surface water

B. Below the general information section is the sampling and Sanitary Survey requirements.

- ① **Requirement:** This column lists the specific contaminant or contaminant group the PWS needs to test for. The Sanitary Survey requirement will also be noted in this column.
- ② **Required Sampling Frequency:** This column notes the number of samples and how often the sample(s) need to be collected.
- ③ **Last Sample:** This column notes the last sample result date for the contaminant the State received.
- ④ **Next Sample:** This column notes when the next sample for the contaminant is due.

Requirement ①	Required Sampling Frequency ②	Last Sample ③	Next Sample ④
Sanitary Survey	Every 3 years	09/23/2014	2017
<b>DS001 DS GAMBELL DISTRIBUTION SYSTEM</b>			
LEAD AND COPPER	2 consecutive 6 month sets, 20 sample(s) per set	09/29/2015	2016
COLIFORM (TCR)	1 sample(s) monthly	12/02/2015	Monthly
TTHM & HAA5 (DBP2)	1 sample(s) quarterly	11/30/2015	See stage 2 sampling detail information below

# Sampling Location

Each sample is required to be taken from a specific location in the water system. The Monitoring Summary lists the sampling requirements by the specific water system facility. A table has been provided below explaining the types of water system facilities and their two letter code (such as TP or DS).

Requirement	Required Sampling Frequency
Sanitary Survey	Every 3 years
<b>DS001 DS DISTRIBUTION SYSTEM</b>	
LEAD AND COPPER	2 consecutive 6 month sets, 20 sample(s) per set
COLIFORM (TCR)	1 sample(s) monthly
TTHM & HAA5 (DBP2)	1 sample(s) quarterly
<b>TP002 TP DIRECT FILTRATION</b>	
SOC	1 sample(s) quarterly
NITRATE	1 sample(s) annually
VOC	1 sample(s) annually
ARSENIC - SINGLE	1 sample(s) per 9 year cycle
RADIUM 226 AND 228	1 sample(s) per 9 year cycle
TOTAL GROSS ALPHA	1 sample(s) per 9 year cycle
INORGANICS	1 sample(s) per 9 year cycle

**Example**  
 For this system the **Nitrate** sample is supposed to be taken at the **Treatment Plant**, which is the entry point to the distribution system.

Facility where sample should be taken in the water system.

\*Please note: Samples collected at a well could be for source/raw water sampling or, for systems that do not have treatment, could represent the entry point to the distribution system. If you are unsure about the samples for your system, please consult with your EPS.

Entry Point to the Distribution System	
Facility	CH-Combined Header
	OT- Other
	TP- Treatment Plant
	WL- Well*
Distribution System	
Facility	DS- Distribution System
Raw Water Sample	
Facility	IN- Intake
	WL- Well*
	IG- Infiltration Gallery

# Other Considerations

A sanitary survey is defined as “ an onsite inspection of the water source, facilities, equipment, operation and maintenance of a public water system”. A sanitary survey is meant to identify problems which may affect the safety of the water.

C. Situated towards the top of the monitoring summary, is the Sanitary survey requirement.

- ① **Required Sampling Frequency:** For every community water system (CWS), a sanitary survey must be conducted every 3 years. Meanwhile, for every Non-Transient Non-Community & Transient Non-Community water system, a sanitary survey must be conducted every 5 years.
- ② **Last Sample:** This column notes the date of your last sanitary survey.
- ③ **Next Sample:** This column shows the year your next sanitary survey is due.

Requirement	Required Sampling Frequency ①	Last Sample ②	Next Sample ③
Sanitary Survey	Every 3 years	09/23/2014	2017

# Section 2: Stage 2 Sampling Detail

For systems subject to Stage 2 D/DBPR requirements a section has been added to the Monitoring Summary since sampling for this rule must occur at the **specific location** and **time of year indicated** in your Compliance Monitoring Plan. Samples submitted from incorrect locations or outside of the designated timeframe will not be accepted by the Drinking Water Program.

- ① **Contaminant:** This box indicates which Stage 2 contaminant the sample should be analyzed for at the lab.
- ② **Location:** This section represents the location in your system where the sample should be taken.
- ③ **Sample Count:** This section specifies how many samples should be submitted for analysis.
- ④ **Sample Dates:** This area designates the month(s) a Stage 2 sample is required.

Stage 2 Sampling Detail Information - Sample frequency listed in requirements above			
Contaminant	Location ②	Sample Count	Sample Dates ④
DBP2 ①	PTARMIGAN BUNKHOUSE	1 ③	January, April, July, and October

Please note: Depending on your system’s sampling requirements you may see DBP2 (TTHM & HAA5 as a dual sample set); or TTHM (Individual TTHM sample) and HAA5 (Individual HAA5 sample) listed. See page 6 for examples.

If you have questions about interpreting your Monitoring Summary please contact your Environmental Program Specialist

In order to understand your Stage 2 sampling requirements you'll need to look at the number and frequency of samples required at the top of the summary (A in screen shot below) and information on the specific location and month(s) samples need to be collected located within the Stage 2 Sampling Detail Information section (B in screen shot below):

# Interpreting Stage 2 Sampling Detail

## Example 1

DS001 DS				
(A)	TTHM & HAA5 (DBP2)	1 sample(s) quarterly	11/30/2015	See stage 2 sampling detail information below
TP002 TP				
	SOC	1 sample(s) quarterly	02/08/2006	2016-2018 Waiver Approved
<p>This system is required to collect a <b>TTHM &amp; HAA5</b> sample (DBP2) at the <u>same location</u> of <b>Loop-B End</b> on a quarterly basis in the specific months of <b>January, April, July, and October</b> (within the current monitoring summary year).</p>				
	TOTAL GROSS ALPHA	1 sample(s) per 9 year cycle	10/29/2012	Between 2017 and 2025
Stage 2 Sampling Detail Information - Sample frequency listed in requirements above				
(B)	Contaminant	Location	Sample Count	Sample Dates
	DBP2	LOOP-B END	1	January, April, July and October

## Example 2

DS001 DS DISTRIBUTION SYSTEM				
(A)	HAA5 (HALOACETIC)	1 sample(s) annually	07/08/2015	See stage 2 sampling detail information below
	TOTAL TRIHALOMETHANE	1 sample(s) annually	07/08/2015	See stage 2 sampling detail information below
TP001 TP TREATMENT PLANT				
<p>This system is required to collect a <b>TTHM</b> and an <b>HAA5</b> sample at <u>different locations</u>.</p> <p>For <b>HAA5</b> a sample must be collected at the <b>Uptown Loop Return</b> on an annual basis in the Month of <b>March</b>. For <b>TTHM</b> a sample must be collected at the <b>Downtown Loop Return</b> on an annual basis in the Month of <b>June</b> (within the current monitoring summary year).</p>				
Stage 2 Sampling Detail Information - Sample frequency listed in requirements above				
(B)	Contaminant	Location	Sample Count	Sample Dates
	TTHM	UPTOWN LOOP RETURN	1	March
	HAA5	DOWNTOWN LOOP RETURN	1	June

# Section 3: Operator Report

The Operator Report section outlines the requirements for the monthly operator report (MOR). The MOR should be submitted to the DW Program by the 10<sup>th</sup> of the following month (e.g., the March operator report would be due by April 10<sup>th</sup>).

- ① **Requirement:** This column lists the specific contaminant or contaminant group the PWS needs to test.
- ② **Location:** This column lists the location where the samples/measurements should be taken.
- ③ **Sampling Frequency:** This column notes the number of samples and how often the samples/measurements need to be collected.
- ④ **Last Report:** This column indicates when the last operator report was submitted to the ADEC.

Operator Report				
Requirement ①	Location ②	Sampling Frequency ③	Last Report ④	
TURBIDITY	After Filters	6 samples 31 days per month	11/01/2015	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	11/01/2015	
CHLORINE	Entry Point	2 samples 20 days per month	11/01/2015	

# Section 4: Compliance Schedules

Compliance Schedules track other (non-sampling) requirements such as the Consumer Confidence Report (CCR) or additional follow-up activities for Sanitary Survey deficiencies. For a complete list of each compliance schedule type please see page 9.

- ① **Compliance Schedule Type:** This section identifies what issue the compliance schedule is addressing. This example details a Lead/Copper Exceedance Schedule.
- ② **Activity Type:** This section lists what specific action needs to be taken.
- ③ **Due:** This section lists when activities need to be completed.
- ④ **Comments:** The comments are written by your EPS (as needed) to provide additional details to the schedule requirements.

Please note: Not all schedules will have comments.

Compliance Schedules		
	Due ③	Comments ④
<b>Lead/Copper Exceedance Schedule ①</b>		
② PBCU EXC SCHED - FLW UP PBCU SAMPLING	12/31/2015	2 consecutive 6 month sets.
<b>Emergency Preparedness Regulation</b>		
EPR-PMP CERTIFICATION	08/20/2013	CWS serving population less than 1000, required to complete PMP.

The last section on the Monitoring Summary lists additional notes pertinent to sampling time frames as well as the contact information for the Environmental Program Specialist (EPS) assigned to your system.

## Notes & Contact Information

- 1) Periods are three years in length. The current period is 1/1/2014 - 12/31/2016 and the next period will be 1/1/2017 - 12/31/2019. Cycles are nine years in length. The current cycle is from 1/1/2011 - 12/31/2019 and the next cycle is 1/1/2020 - 12/31/2028.
- 2) Periods for radionuclides (gross alpha, radium 226/228, and uranium) are three or six years in length. The current 6 year period is 01/01/2014 - 12/31/2019, the next 6 year period will be 01/01/2020 - 12/31/2025. Cycles for radionuclides are nine years in length. The current cycle is from 01/01/2008 - 12/31/2016 and the next cycle is 01/01/2017 - 12/31/2025.
- 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) 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).
- 6) SOC waiver renewal forms are due every three year period. SOC waiver, new and renewal, forms can be found at <http://www.dec.alaska.gov/eh/dw/publications/forms.html>.
- 7) 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://myalaska.state.ak.us/dec/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](mailto:dec.water.fco.opcert@alaska.gov).

**Monitoring summaries reflect sampling information the Drinking Water Program receives from certified laboratories and public water systems. If you notice any errors in this data, please contact your local ADEC Drinking Water Program office. Public water systems are responsible for compliance with monitoring requirements.**

Monitoring summary completed by Jessica Cahill, Environmental Program Specialist/ADEC. If you have any questions please contact ADEC at 907-269-7517 or 1-866-956-7656 Email: [jessica.cahill@alaska.gov](mailto:jessica.cahill@alaska.gov) Fax: (907) 269-7650.

Sincerely,

Jessica Cahill  
Environmental Program Specialist

The table below provides a definition of each compliance schedule type:

Compliance Schedule Type	Definition
Annual Watershed Report	Document detailing progress toward achieving watershed protection and improvement, summarizing important milestones achieved annually and highlighting future implementation priorities.
Bilateral Compliance Agreement	Enforcement tool that outlines an agreed upon schedule between the PWS and the DW Program to correct violations or other issues causing the PWS to be out of compliance with the state or federal regulations.
Boil Water Notice	Issued by the Drinking Water Program as a precaution to protect consumers from drinking water when an unexpected condition has caused a potential for biological contamination.
Compliance Order by Consent	Formal enforcement action schedule to correct violations or other issues causing the PWS to be out of compliance with the state or federal regulations.
Compliance Schedule Date	A general purpose compliance schedule that lists tasks that must be completed and the dates by which the tasks must be completed.
Construction Approval	Schedule that outlines when the Construction Approval or Conditional Construction Approval expires. Construction approvals are good for 2 years.
Consumer Confidence Report	Schedule for when the Consumer Confidence Report (CCR) and certification form is due. All Community Water Systems are required to submit a CCR each year.
Correct Sanitary Defect	Schedule outlining sanitary defects that need to be corrected following a RTCR Level 1 or Level 2 Assessment
DBP Stage 2 Reports	A general purpose compliance schedule for various aspects of the Stage 2 D/DBPR.
Emergency Preparedness Regulation schedule	Schedule outlining when the emergency preparedness plans (VA/ERP or PMP) certification forms are due to the state. After the initial plan has been certified to the state an update is required every two years.
Ground Water Rule schedule	A general purpose compliance schedule for various aspects of the Ground Water Rule.
Install Treatment schedule	Treatment must be installed to meet state and/or federal regulations.
Interim Approval to Operate	Schedule that outlines when the Interim Approval to Operate expires and a Final Approval to Operate will need to be requested.
Lead/Copper Exceedance Schedule	Action items to be completed after a lead/copper action level exceedance including but not limited to conducting water quality parameter monitoring, collecting source water samples, submitting an optimal corrosion control treatment recommendation and delivering public education.
Notice of Violation schedule	Formal enforcement schedule that outlines actions that need to be taken in order to correct violations or other issues causing the PWS to be out of compliance with the state or federal regulations. Failure to meet deadlines can result in an administrative penalty (fine).
Public Notice Schedule	An alert delivered to consumers by a PWS when problems with drinking water pose a risk to human health.
RTCR Level 1 Assessment	Schedule outlining the due date for the RTCR Level 1 Assessment form
RTCR Level 2 Assessment	Schedule outlining the due date for the RTCR Level 2 Assessment form
Sample Siting Plan	Schedule for creating or updating a Total Coliform sample siting plan
Sanitary Survey Corrective Actions	Outlines when corrective actions are due for any significant or minor deficiencies that were identified during a sanitary survey.
Seasonal Start Up	Schedule for water systems operating seasonally to complete the required start up procedure and start up total coliform sample
Stage 2 DBP Operational Evaluation Level (OEL) Report schedule	An OEL is calculated using Stage 2 DBPR compliance monitoring data. If an OEL exceedance occurs, an operational evaluation report must be submitted to the State.