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Message from the Drinking Water Program Manager



The mission of the Drinking Water (DW) Program (within the Alaska Department of Environmental Conservation (DEC)) is to protect the health of Alaskan's by establishing, maintaining, and enforcing standards for safe and reliable drinking water. This report provides information on how well public water systems (PWS) in Alaska are meeting the standards for providing safe drinking water. It also provides information on the DW Program's roles and responsibilities as well as information about significant projects for the 2020 calendar year (CY).

Each state is required to produce and submit a similar annual report to the Environmental Protection Agency (EPA). The reports are made available to the public, and the data is included in a national report summarizing the performance of the nation's PWS's. This report fulfills that requirement.

During 2020, the main focus of the DW Program was to continue to provide a high level of technical and compliance assistance to the owners and operators of PWSs in Alaska. However, like everyone else, we had to deal with providing public health protection while also dealing with the impacts of the COVID-19 pandemic to our staff and PWSs. Almost all of the DW Program staff transitioned to remote working arrangements in March and continued to work remotely for the remainder of 2020. Since we had been allowing remote work prior to the pandemic, the transition to full remote work went relatively smoothly and staff were able to continue to provide a high level of technical and compliance assistance throughout the pandemic. During 2020, staff provided 7,341 compliance assistance, technical assistance, and informal enforcement actions, which had a direct impact on the number of water systems in compliance with all drinking water regulations. One of the major assistance efforts was providing each PWS with a comprehensive Monitoring Summary early in the calendar year. The Monitoring Summary is a helpful tool for PWSs to schedule required testing and to budget the necessary funds to remain in compliance. Despite the disruption caused by the pandemic, the DW Program met the goal of distributing Monitoring Summaries to all Community Water Systems by March 31, 2020.

In response to the COVID-19 pandemic, DW Program staff worked closely with colleagues in the DEC Water Division and in the Department of Health and Social Services to provide important COVID-19 information to water and wastewater treatment plant operators. A website was developed to quickly disseminate coronavirus related information for operators and PWS's. Staff also worked closely with PWS's to help them continue to get required samples to certified laboratories early in the pandemic. Many Alaska Native Villages were in complete lockdown and were limiting flights in and out of villages in an effort to control the spread of the virus. In addition, one of the major airlines that provided service to rural Alaska declared bankruptcy in May 2020, making it even more challenging to get samples to certified labs within holding times. DW Program staff worked with systems to identify alternative shipping arrangements, optimum timing of sample collection and made arrangements with certified laboratories to accept samples outside of normal acceptance times without extra charge to the system. This was a herculean effort and one of our proudest moments in a very challenging year!

During 2020, the DW Program continued to work closely with EPA Region 10 to effectively address PWSs on the Health Based Violations (HBV) List. During 2020, the main focus was on addressing systems with unaddressed sanitary survey significant deficiencies (45 violations) and addressing systems with Disinfection By-Product (DBP) MCL violations. As part of this effort, one senior level Environmental Program Specialist was transferred to work directly under the Program Manager to address outstanding 45 violations. This involved intensive work with PWS's to develop corrective action plans and conduct the necessary follow-up to ensure the deficiencies were addressed. As a result, there are only two remaining systems on the HBV List with outstanding 45 violations. We also coordinated with various funding agencies to develop source water improvement or treatment plans for those systems that continue to have long-standing DBP MCL violations. Staff will continue this important work in CY 2021.

Finally, during 2020, the DW Program continued to partner with the DEC Contaminated Sites Program (CS Program) and the state Department of Health and Social Services (HSS) to respond to discoveries of Per-and polyfluoralkyl substances (PFAS) in drinking water sources in multiple communities in Alaska. We are currently responding to occurrences in PWSs over the EPA Lifetime Health Advisory (LHA) level in King Salmon, Dillingham, Gustavus, and Yakutat. The response effort has required a significant amount of staff time to provide source water reviews, technical assistance, review engineering plans for treatment of PFAS in PWSs and attend public meetings to inform the public of the risks associated with PFAS in drinking water. The state is in the process of sampling public and private wells in the areas around state-owned airports where PFAS containing firefighting foams have been used. We anticipate that more DW Program staff time will be devoted to response efforts in 2021 as we continue to discover more affected sites throughout the state.

Cindy Christian

Drinking Water Program Manager Alaska Department of Environmental Conservation

Definition of a Public Water System







Public Water System

A **Public Water System (PWS)** is a system for the provision of water for human consumption through pipes or other constructed conveyances, if such system has at least 15 service connections or serves at least 25 individuals for at least 60 days per year. A public water system is further classified as either a community water system or a non-community water system.

Community Water System

Non-Community Water System

Community Water Systems (CWS) are public water systems that have at least 15 service connections used by year-round residents or regularly serve at least 25 year-round residents. Examples of CWSs include a municipal water system serving a town or village, or a mobile home park.

Non-Community Water Systems are public water systems that do not serve a permanent residential population. This category is further divided into two types (specified below):

Non-Transient Non-Community Water System Transient Non-Community Water System

Non-Transient Non-Community Water Systems (NTNC) are public water systems that serve at least 25 of the same people daily at least 6 months of the year, such as churches, schools, and office buildings.

Transient Non-Community Water Systems (TNC) are public water systems that serve an average of at least 25 people at least 60 days per year, such as campgrounds, hotels, and restaurants.

Overview of the National Public Drinking Water Program



Section 03

The EPA established the Public Water System Supervision (PWSS) Program through the 1974 Safe Drinking Water Act (SDWA), with major amendments in 1986 and 1996. The SDWA, associated amendments, and federal drinking water regulations developed by EPA help to ensure the public receives safe drinking water. Some key provisions of the SDWA are highlighted below:

• Sets national maximum contaminant level goals (MCLG) as well as limits on allowable

- contaminant levels in drinking water provided by PWSs. These limits are called maximum contaminant level (MCL) and maximum residual disinfectant level (MRDL).
- Establishes treatment techniques or action levels in lieu of MCLs to control unacceptable levels of specific contaminants, such as turbidity or lead, in drinking water from PWSs.
- Requires PWSs to monitor for regulated drinking water contaminants and requires the results to be reported to the state.
- Requires PWSs to notify their customers when violations of the SDWA occur.
- Requires a certification program for PWS operators and for environmental laboratories where drinking water samples collected from a PWS are analyzed.

The PWSS Program is designed to supervise the implementation of the SDWA requirements for PWSs. The SDWA allows states, territories, and tribes to seek primacy, which is approval from EPA to administer and enforce the PWSS Program within their state, territory, or tribe. States must meet specific requirements set forth in the SDWA regulations, including the development or adoption of drinking water regulations that are at least as stringent as the federal regulations, and must demonstrate that the state can enforce the program requirements. Currently all states and territories have been delegated authority for Primacy for the PWSS Program with exception of Wyoming and the District of Columbia (neither of which has sought delegation).

Alaska Drinking Water Program Components

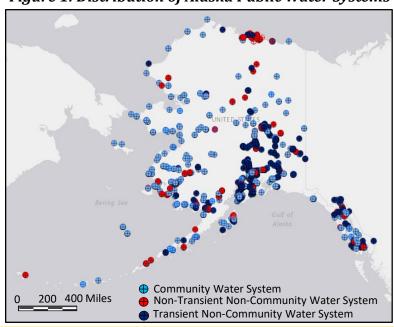


Section 04

The Alaska DW Program is comprised of 45 staff positions that operate out of 4 offices located around the state, including Anchorage, Fairbanks, Soldotna, and Wasilla. Collectively, the offices are responsible for regulating 1,369 PWSs serving the visitors and residents of the State of Alaska (see **Figure 1** for distribution of water systems across Alaska). Funding for the DW Program is a mix of federal and state grant-match funds, general funds, and program receipts.

The SDWA Amendments authorized use of the Federal Drinking Water State Revolving Fund (DWSRF) through set-asides for state drinking water program activities, which include Drinking Water Protection Programs (Wellhead Protection and Source Water Assessment and Protection). Technical Assistance, and PWSS Program Management. The DEC, as the Primacy Agency for the state, establishes minimum standards for drinking water quality (typically by adopting federal standards) and establishes minimum engineering standards for water system facility infrastructure (construction) and system operation. The DW Program regulates PWSs by enforcing state and federal regulations.

Figure 1: Distribution of Alaska Public Water Systems



The State of Alaska is a "direct implementation" state, meaning the state's DW Program staff work directly with the PWS owners and operators. In Alaska, there are no county or borough governments that support implementation and enforcement of the drinking water regulations at the local level.

This report will focus on the compliance assistance and enforcement activities of the DW Program, which are listed in the major program components (below) and are described in further detail beginning on <u>page 11</u>. However, compliance and enforcement activities are just two of the many activities of a comprehensive state drinking water program.

The major components and activities of Alaska's DW Program are listed below:

Compliance Assistance & Enforcement

- Provide PWS owners and operators with information and educational materials regarding sampling and reporting requirements.
- Enter and review water system data in the state DW Program database, the Safe Drinking Water Information System (SDWIS/State).
- Determine PWS compliance with the SDWA requirements, rules, and federal and state drinking water regulations; issue violations when requirements are not met.
- Issue informal and formal enforcement actions to PWSs that are in violation of the SDWA or state drinking water regulations, as appropriate.

Technical & On-site Inspections

- Complete sanitary survey inspections at PWSs every 3 or 5 years.
- Complete annual Filtration Avoidance Inspections for PWSs avoiding filtration as required under the Surface Water Treatment Rule.
- Respond to complaints about drinking water quality and quantity from the public.
- Provide technical assistance to PWSs during disaster events.

Engineered Plans

- Review engineered plans for new and modified PWSs, and issue construction approvals to systems that meet minimum requirements.
- Review engineered plans for constructed PWSs and issue operational approvals to systems that meet minimum requirements.
- Review requests for waivers of required separation distances involving PWSs.
- Assist consulting engineers with questions regarding engineered plan review requirements and regulations, including alternative treatment technologies and separation distance waivers.

Drinking Water Protection

- Complete source water delineations, contaminant source inventory assessments, and susceptibility determinations for PWSs.
- Review and either approve or deny Synthetic Organic Chemicals (SOCs) Monitoring Waiver applications for PWSs.
- Partner with other agencies to review and comment on permitted activities within Drinking Water Protection areas.
- Encourage responsible drinking water source protection and drinking water protection planning efforts for PWSs.

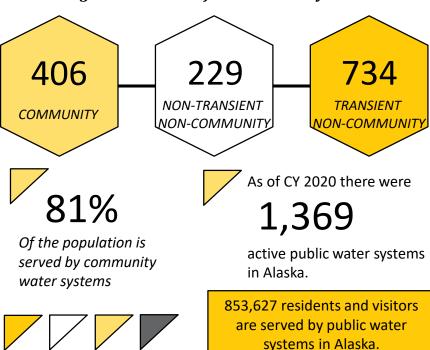
General Program Activities

- Adopt federal regulations, when required, and draft state regulations as necessary.
- Fund the Environmental Health Laboratory's Drinking Water Laboratory Certification Program, consisting of both chemical and microbiological certification activities.
- Provide administration for the SDWIS/State database, the Compliance Monitoring Data Portal (CMDP), the Electronic Sanitary Survey (ESS), Drinking Water Watch, the Drinking Water Protection database, and the Engineering Submittal Tracking database.
- Implement the Sanitary Survey Inspector training and approval program for DW Program staff and third-party Sanitary Survey Inspectors.
- Provide public outreach, including presentations at conferences or by webinar and other training opportunities, for water system owners and operators, as appropriate.

Alaska's Public Water Systems



Figure 2: Number of Public Water Systems



During CY 2020, there were 1,369 active PWSs in Alaska: 406 CWS; 229 NTNC systems; and 734 TNC systems (see **Figure 2**).

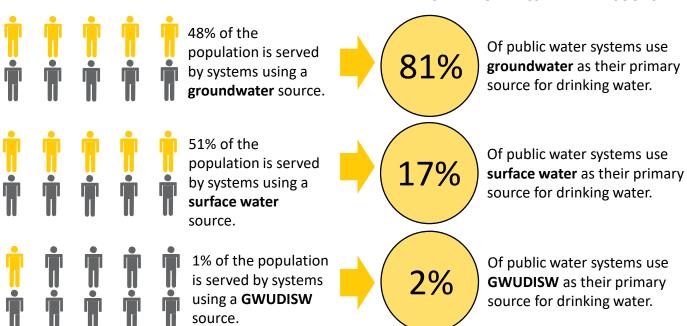
These 1,369 PWSs served a combined population of 853,627 residents of and visitors to the State of Alaska. While there are a greater number of systems classified as TNC systems, the majority of the population in Alaska is served from CWSs.

Most of the PWSs in Alaska utilize groundwater as their source; however, a greater percentage of the population is served by systems using a surface water source (see **Figure 3**). This is primarily because several of the systems serving the largest populations in the state utilize a surface water source.

Figure 3: Percentage of Population Served by Water Source & Number of PWSs by Water Source

PERCENTAGE OF POPULATION SERVED BY WATER SOURCE

NUMBER OF PWSs BY WATER SOURCE



Analysis of Compliance for Alaska Public Water Systems in 2020



PWS Compliance with Sampling and Reporting Requirements

In order to protect public health through safe drinking water, PWSs are required to test for a variety of microbiological and chemical contaminants throughout the year. Currently, more than 90 different chemical and microbiological contaminants are regulated under the SDWA. PWSs are also subject to many state and federal regulations that cover all aspects of a water system, from design and construction standards to daily operation and maintenance requirements. When a PWS fails to complete monitoring and reporting requirements, exceeds an established MCL, or operates outside of treatment standards, a violation is issued to the water system.

During CY 2020, no waterborne diseases were reported from Alaska PWSs; however, a number of violations were issued. A total of 3,977 federal violations were issued to 602 PWSs (or 44%) in Alaska, leaving 767 PWSs (or 56%) violation-free (see **Figure 4**). Monitoring violations continue to be the most common violations, making up 83% of all violations issued to PWSs in Alaska during CY 2020 (see **Figure 5**). The 3,977 total violations issued to PWSs across the state in CY 2020 is a decrease in the number of violations compared to CY 2019, when 4,559 violations were issued. This decrease can be

Figure 4: PWSs by Violation Status in CY 2020

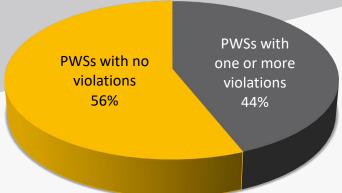
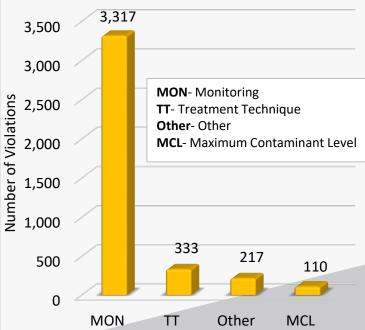


Figure 5: Violations by Type in CY 2020



attributed in part to the reduced number of Inorganic Contaminants (IOCs) and Synthetic Organic Contaminants (SOCs) violations. Typically, at the end of each monitoring period (3 year and 9 year periods ended in 2019) there is a spike in violations for those systems that did not complete requirements.

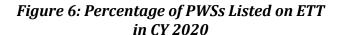
While there was a decrease in the number of violations issued in 2020 compared to last year, the percentage of PWSs with 1 or more violations increased. This increase is attributed to two main causes, the first being the global pandemic. Systems struggled with changes to operations, and transportation of samples was very difficult in many areas of the state. The second contributing factor is that we expanded the violation information in this report to include violations that were resolved or returned to compliance (RTCd) in 2020. In past reports only unresolved violations were counted, this change was made to provide a more comprehensive overview of violations.

Alaska's DW Program utilizes the EPA's quarterly Enforcement Targeting Tool (ETT) to focus attention on PWSs whom, based on the severity and frequency of their violations, are defined as significantly out of compliance with the SDWA

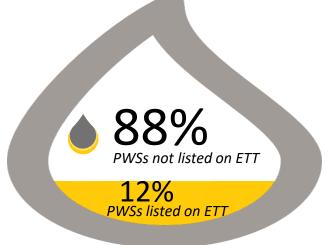
requirements.

Throughout CY 2020, 169 PWSs appeared on the quarterly list at one time or another, leaving 1,200 or 88%, of Alaska's PWSs not classified as significantly out of compliance (see **Figure 6**).

During CY 2020, 108 PWSs listed on the ETT took the appropriate steps (such as collecting samples) to return to compliance and were no longer listed on EPA's ETT.







To view a copy of the current quarterly ETT List, a web map detailing the location of PWSs on the current list, resources including guidance on how to read the ETT, how the list is generated, and past ETT lists, see the DW Program's ETT webpage at http://dec.alaska.gov/eh/dw/ett/.

Further details on violations issued to Alaska PWSs during CY 2020 are specified on Attachments 1 and 2 of this report; the attachments are described in detail below:

- Attachment #1 is a one-page summary showing the types of violations, organized by federal rule, that were issued to Alaska PWSs in CY 2020 (see <u>page 21</u>).
- Attachment #2 is the list of PWSs that received MCL and/or Treatment Technique (TT) violations during CY 2020 (see <u>page 22</u>).

Sanitary Survey Compliance

A Sanitary Survey is an on-site inspection of the water system required for PWSs every 3 or 5 years, depending on the system classification. If deficiencies of the water source(s), facilities, equipment, operation, maintenance, or monitoring requirements are found, they are documented during the inspection. In Alaska, these inspections are completed by DEC-Approved Sanitary Survey Inspectors, which includes both DW Program staff and third-party Sanitary Survey Inspectors who are approved by the state but not employed by the State of Alaska.

During CY 2020, due to pandemic travel restrictions, the DW Program staff completed only 3 sanitary surveys . Third-party Sanitary Survey Inspectors completed 180 surveys, which is about half the number of surveys normally completed. In 2020, only 81 of the 1,369 PWSs in the state were overdue for their sanitary survey, leaving 1,288 systems, or 94% of Alaska's PWSs, in compliance with their Sanitary Survey requirements.

Also, due to the pandemic, the DW Program was unable to host the Sanitary Survey Inspector courses and no new sanitary survey inspectors were approved.



Drinking Water Program Compliance & Enforcement **Activities**



In CY 2020, DW Program staff continued to take a proactive approach to requiring compliance with drinking water regulations. These activities included phone and email contacts, on-site inspections, meetings with PWS owners and operators, and providing technical assistance as needed. Staff assisted operators with reminder notices of upcoming sampling deadlines in an attempt to prevent violations before they occurred. DW Program staff routinely provided PWS owners and operators with the necessary forms and information to effectively notify their customers about violations of the drinking water regulations by their system in a timely manner. The method of public notification varied by the violation and system type, and



Figure 7: Alaska DEC Drinking Water Boil Water



the water system owners were required to report to the DW Program on how the public notice was performed. Some circumstances, such as the confirmed detection of *E. coli*, inadequate system pressure, or emergency situations like flooding, warranted immediate action by the water system owner or operator due to the pressing threat to public health. For such acute violations, the DW Program requires systems to notify customers within 24 hours to boil water before use. Boil Water Notices (BWNs) remain in effect until the problem has been corrected and the water is determined by the DW Program to be safe to consume (see Figure 7 for an example of the BWN web map showing distribution of active BWNs). In CY 2020, the DW Program required 72 water systems to post these notices a total of 103 times; some water systems were placed on a BWN more than once during the year. This is a decrease from last year where 79 systems were placed on BWNs 126 times.

This continued proactive focus on technical and compliance assistance led to 7,341 total compliance assistance actions provided by DW Program staff to Alaska PWSs during CY 2020, which is a decrease from last year's (CY 2019) total of 7,697 compliance assistance actions. Also, in reviewing the past 5 years of compliance assistance data, this year is slightly lower than the average of 7,588 compliance actions per year.

Once violations have been generated for a particular water system, DW Program staff work diligently to provide the system with straightforward guidelines on how to return to compliance (RTC). While returning to compliance ultimately rests with water system owners and operators, DW Program staff use their knowledge and expertise to provide technical and regulatory assistance to those systems with violations. Once a system takes the necessary steps to address a particular violation or series of violations, DW Program staff document the RTC action. In CY 2020, a total of 1,309 RTC actions were entered for 524 systems.

If a PWS does not RTC in a timely manner, the DW Program uses a progressive enforcement

response policy to achieve compliance, beginning with a series of enforcement letters as the first steps towards more formal enforcement. During CY 2020, 2,477 informal enforcement actions were taken by the DW Program. If compliance is not achieved in a timely manner, more formal enforcement tools are utilized. An enforcement action is considered formal when the enforcement document is legally binding and includes the ability to impose a monetary fine (i.e., administrative penalty) if compliance is not achieved within the timelines specified by or negotiated with the state.

The most commonly used DW Program formal enforcement action is the Notice of Violation (NOV). For systems which require a longer-term solution to address violations and achieve compliance, the system can enter into a written agreement detailing a timeline of specific actions the system intends to take. This agreement takes the form of a Compliance Order by Consent (COBC).

If the requirements of the NOV or COBC are not met, administrative penalties can be assessed. In CY 2020, the DW Program took 2 formal enforcement actions against PWSs in the State of Alaska (see **Figure 8** below for a summary of compliance and enforcement actions taken in CY 2020).

Figure 8: Summary of Compliance and Enforcement Actions Taken by DW Program Staff in CY 2020 Enforcement 12 Formal Notice of Violation (NOV) 23 **Compliance Meeting** 103 **Boil Water Notice** Informal Enforcement 105 RTCR Assessment Follow Up Letter 236 Compliance Phone Call 271 Written Communication 430 Public Notice Issued, Received, or Requested 1,309 Return to Compliance 6 **Compliance Meeting Engineering Letter** Compliance PWS Data Summary (Data Dump) 1,104 Compliance Phone Call 1.451 **Monitoring Summary** 4.034 Written Communication

0

500 1,000 1,500 2,000 2,500 3,000 3,500 4,000 4,500

Number of Compliance and Enforcement Actions

Drinking Water Program Activities in 2020



Along with Compliance and Enforcement activities, as described in Section 7, the DW Program is comprised of a number of other major components as described in this section. The activities support PWS compliance through engineering plan reviews, drinking water protection efforts, collaborating with other drinking water professionals, and updating online services so drinking water information is easily accessible.

Engineering Activities

One of the major components of the DW Program pertains to engineered plan reviews. DW Program staff review submitted engineered plans to determine whether construction approval for building new PWSs or for modifying existing PWSs can be granted. Once construction is completed, additional engineered plans are submitted to the DW Program and reviewed by staff to determine whether interim approval and/or final approval to operate can be issued for a PWS. In 2020, 125 plans received Approval to Construct, 95 plans received Interim Approval to Operate and 112 plans received Final Approval to Operate (see **Figure 9**).

Health Based Violations Project

During 2020, the DW Program continued work on EPA's National Compliance Initiative of reducing the number of CWSs in violation of Health Based

140 Number of Engineering Plans Approved 112 120 95 100 80 60 40 20 0 Approval to Interim Final Construct Approval to Approval to Operate Operate

Figure 9: Status of Engineered Plans in CY 2020

125

Standards by the end of FY 2022. Based on data through December 2020, Alaska had 187 CWSs appear on EPA's Health Based violations list. However, after reviewing the violations, 131 systems had fully resolved their violations bringing the current total to 56 CWSs (or 14% of all CWSs) remaining on the list. Alaska will continue to address health based violations as outlined in our strategy by focusing on systems that are also on the ETT List and systems with unresolved significant deficiencies that were identified during a Sanitary Survey inspection.

For further information on EPA's National Compliance Initiative, please visit the webpage at https://www.epa.gov/enforcement/national-compliance-initiative-reducing-noncompliance-<u>drinking-water-standards-community</u>.

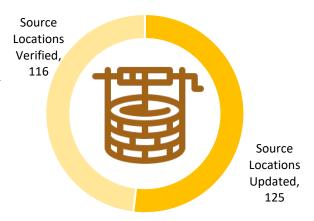
Figure 10: Number of Delineations and Location Updates



Drinking Water Source Protection Activities

The source of drinking water is a vitally important component of a PWS. DW Program staff work with the public and government agencies to provide accurate locational data for wells, intakes and the respective drinking water source protection areas. This information is used to review and comment on proposed projects occurring throughout Alaska. In addition, DW staff work with communities to promote voluntary protection efforts of their drinking water source.

In CY 2020, a total of 241 source locations were verified or updated (see **Figure 10**), and a total of 47 protection areas were delineated. DW Program staff are no longer



able to report the number of provisional protection areas delineated. However, a new script allows DW staff to automatically delineate provisional protection areas monthly for any new sources or updated locations. Provisional protection areas allow DW staff to immediately identify protection areas until a formal delineation can be completed using site specific information.

Increased effort has been put towards developing incentives for community water systems to voluntarily develop Drinking Water Protection Plans and recognizing communities that have current Drinking Water Protection Plans. Communities applying for Drinking Water State Revolving Fund (DWSRF) loans now receive points for having a current Drinking Water Protection Plan.

For further information about Drinking Water Protection efforts, please see the DW Program's Drinking Water Protection webpage at http://dec.alaska.gov/eh/dw/dwp/.

GIS Mapping Tools

The first step to protect drinking water from contamination is for the public and government agencies to identify drinking water sources. The DW Program continues to maintain a Geographic Information System (GIS) database of drinking water protection areas for identified PWS sources and provides this data as a web map. In CY 2020, two main web maps continued to be maintained, one for the public and one for internal use at the DEC. The internal web map includes data layers that are not currently available outside the DEC firewall.

Efforts are continually being made to encourage permitting authorities in other DEC Programs and other agencies to use the web maps for identifying proposed activities near PWS sources. The link to the publicly-available web maps is http://dec.alaska.gov/das/gis/apps.htm.

In CY 2020, the public web map displaying drinking water protection areas and well and intake locations received approximately 58,911 cumulative viewer hits, an increase of 6,138 over last year. The average number of daily visits is 17/day.

The DEC web service for Drinking Water Protection Areas continues to be used directly by other agencies including the service in their own specialized web map. For example, Alaska Department of Natural Resources (DNR) includes this web service in its own web maps when reviewing applications for temporary water usage authorization and water rights.

Section 08

In CY 2020, the internal web map displaying drinking water protection areas, well, and intake locations received a total of 17,273 cumulative viewer hits since the map was created in 2012, an increase of 1,657 viewers over the last year. The average number of daily visits over the CY 2020 is 4.6/day.

Thumbnails of Drinking Water Program publiclyavailable web maps.

Alaska DEC Drinking Water

& Wildfires



Alaska DEC Drinking Water & Floods









Information Requests and Agency Reviews

In CY 2020, the Drinking Water Source Protection group responded to 544 proposed permits and/or projects throughout Alaska. Most responses were for the Alaska Department of Natural Resources (ADNR) agency review circulation, but also included internal permit reviews, the Kenai Peninsula Borough conditional land use permit reviews, Alaska Department of Transportation & Public Facilities (ADOT&PF), US Corps of Engineers Draft EIS documents, education research, and various private consulting firms.

Other Programs Related to Public Water Systems



Section 09

The DW Program is not the only program within the DEC that works with PWSs; many partners assist in achieving the goal of safe drinking water for the residents of and visitors to the State of Alaska. The two programs highlighted (on the following pages) work closely with the DW Program; however, this is not an all-inclusive list of our partners.

DEC Environmental Health Laboratory - Water Laboratory Certification Program

The mission of the DEC Environmental Health (EH) Laboratory is to provide analytical and technical information in support of state and national environmental health programs. The laboratory is responsible for certifying commercial and municipal drinking water laboratories for chemical and microbiological testing. The certification process is intended to ensure that laboratories meet the requirements of applicable federal regulations and standards, and satisfy the needs of their clients.

Environmental Health Laboratory in 2020

During CY 2020, the EH Laboratory certified 35 unique laboratories for drinking water analysis. 24 certifications for microbiological analysis (including 2 for Cryptosporidium) and 17 certifications for chemical analysis were issued, for a total of 41 certifications. The EH Laboratory performed a variety of analytical and technical assistance actions. These actions ranged from anuals (see

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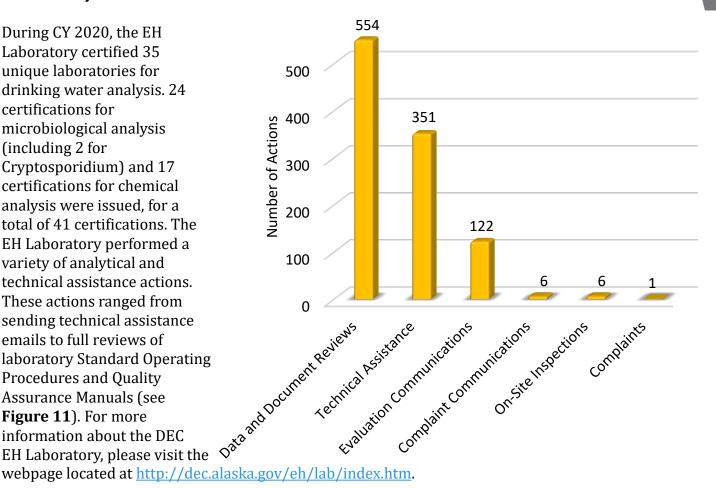
anuals (see)

anuals (see

anuals (see)

anuals (see) sending technical assistance

Figure 11: DW EH Laboratory Certification Actions Taken in CY 2020



DEC Division of Water- Operator Certification Program

PWSs are required to be operated by properly trained and certified operators. An operator must be certified by the department at the same classification level (or higher) as the water system they are operating. The Operator Certification Program is the lead entity within the State of Alaska for certifying both water and wastewater operators as well as classifying water systems based on the system components. This program is charged with developing training programs, administering examinations, and tracking certified operators. The primary services are as follows:

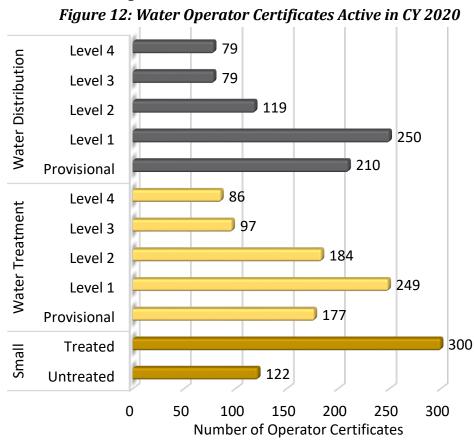
- Develop training curricula, correspondence courses, certification standards, and examination materials for certified drinking water and wastewater system operators.
- Coordinate with PWS owners and notify operators of training opportunities.
- Work with the Alaska Water and Wastewater Advisory Board to establish standards for certifying operators and to adjudicate certification actions.
- Maintain a lending library of reference and training materials for water and wastewater operators.
- Administer certification exams for water and wastewater operators.
- For more information about the Operator Certification Program, please visit the webpage at https://dec.alaska.gov/water/operator-certification.aspx.

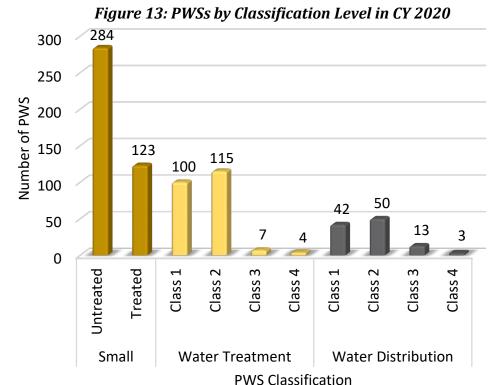
Operator Certification in 2020

In the State of Alaska, there are several certification levels for operators, see **Figure 12** for a breakdown by certification level. In CY 2020, there were 1,951 active certifications held by 1,392 operators statewide. Many operators hold multiple levels of certification, with Level 4 being the highest and requiring the most education and training.

PWSs also have corresponding classification levels determined by the complexity of the system components, see **Figure 13** for a breakdown of the number of water systems by classification level. A majority of the classified systems in Alaska are either small untreated or small treated systems due to the large number of housing subdivisions, trailer courts, and schools having their own water systems. However, there are also a number of complex systems requiring operators with advanced levels of certification.

To maintain certification, operators are required to complete a minimum number of continuing education hours on an annual basis. Therefore, providing training opportunities is a priority for the Operator Certification Program. In CY 2020, 27 courses were approved by the Operator Certification Program, through which operators taking the courses may receive credit for completing the course. Having an appropriately trained and certified operator greatly increases the water system's ability to consistently comply with the SDWA requirements, resulting in fewer violations and safer drinking water for the community.





Glossary of Terms



Annual Compliance Report

The Annual Compliance Report is an annual report of violations of the primary drinking water standards that the states provide to EPA. The ACR is required by Section 1414(c)(3) of the Safe Drinking Water Act Amendments of 1996. The basis of this report comes from data primarily retrieved from the Safe Drinking Water Information System (SDWIS/FED), an automated database maintained by EPA. SDWIS/FED is populated by data submitted by primacy states each quarter. The data submitted includes, but is not limited to, PWS inventory information; violations of the Maximum Contaminant Level (MCL), Maximum Residual Disinfectant Level (MRDL), monitoring requirements, and Treatment Technique (TT) requirements; and information on enforcement activity related to these violations. The ACR also provides the numbers of violations in each of six categories: MCL, MRDL, TT, variances and exemptions, significant monitoring violations, and significant consumer notification violations.

Consumer Notification (Consumer Confidence Reports - CCR)

For purposes of this report, consumer notification means the requirement for every Community Water System to deliver to its customers a brief annual water quality report, called the Consumer Confidence Report (CCR). The CCR is to include some educational material, and it will provide information on the source water, the levels of any detected regulated contaminants, and compliance with drinking water regulations for that public water system.

Groundwater (GW) Source

Groundwater source means water, used by a public water system for providing water to its customers, that is obtained from beneath the surface of the ground (in an aquifer) and is protected—by depth, geological stratification, or other factors—from contamination by pollutants and microorganisms that originate on the surface. These systems are subject to the Ground Water Rule.

Groundwater Under the Direct Influence of Surface Water (GWUDISW) Source

GWUDISW source refers to water, used by a public water system for providing water to its customers, obtained from beneath the surface of the ground but not protected from contamination originating on the surface. A GWUDISW source may have a significant occurrence of microorganisms, algae, or other pathogens such as *Giardia lamblia* or *Cryptosporidium parvum*, or may experience significant shifts in water characteristics that closely resemble surface water conditions. These systems are subject to each of the surface water treatment rules.

Maximum Contaminant Level (MCL)

MCL means the maximum permissible level of a contaminant in water that is delivered to any user of a public water system. This level is a national limit set by the EPA, as required under the Safe Drinking Water Act (SDWA), to ensure that the water is safe for human consumption.

Maximum Residual Disinfectant Level (MRDL)

MRDL means the maximum level of disinfectant in drinking water that may not be exceeded without an unacceptable possibility of adverse health effects. The EPA sets national limits on residual disinfectant levels in drinking water to reduce the risk of exposure to disinfectants and disinfection byproducts that are formed when PWSs add chemical disinfectants for either primary or residual treatment.

Monitoring

Monitoring means doing a status check of the system's water quality at regular intervals, usually through collecting a water sample and having a laboratory analyze the sample for a given contaminant. A PWS is required to monitor and verify that the levels of contaminants present in the water do not exceed the corresponding MCL. If a PWS fails to have its water tested as required or fails to report test results correctly to the primacy agency (EPA, state, territory, or tribe), a monitoring violation occurs.

Primacy

Primacy means the delegating of primary enforcement authority of the Safe Drinking Water Act requirements and federal rules by the EPA to states, territories, and Indian tribes for public water systems in their state jurisdiction if they meet certain requirements.

Public Water System (PWS)

A PWS is a system that provides water for human consumption, using piping or other constructed conveyances, to at least 15 service connections or that serves an average of at least 25 people for at least 60 days each year. There are three types of PWSs: Community (such as a municipal water utility or at a residential subdivision), Non-Transient Non-Community (such as at schools or factories), and Transient Non-Community (such as at restaurants, lodges, and seasonal state and federal parks). In this report, the acronym "PWS" means systems of all three types unless specified in greater detail.

Sanitary Survey

A sanitary survey is a regulatory on-site inspection of the water sources, facilities, equipment, operation and maintenance, and monitoring compliance of a public water system for the purpose of evaluating the adequacy of the components for producing and distributing safe drinking water. Sanitary surveys are required every 3 years for Community Water Systems and every 5 years for Non-Community Water Systems. Each primacy agency (EPA, state, territory, or tribe) is responsible for implementing a Sanitary Survey Program. The State of Alaska has a training and approval program that allows non-State employees to become Approved Sanitary Survey Inspectors. This is unique to the Alaska Drinking Water Program, as most primacy agencies (states) in general have sanitary surveys completed by state or local government employees or paid government contractors.

Significant Consumer Notification Violations

For purposes of this report, a significant consumer notification violation is the failure of a Community Water System to provide its customers with the required annual water quality report (CCR), which results in a significant violation of public notification requirements.

Surface Water Source

Surface water source refers to water, used by a public water system for providing water to its customers, open to the atmosphere and subject to surface runoff. Surface water sources include rivers, lakes, and streams. These systems are subject to each of the surface water treatment rules.

Treatment Technique (TT)

Treatment technique is a method for either inactivating or removing a contaminant to reduce the level of that contaminant sufficiently to satisfy an MCL. For some regulations, the EPA has established treatment technique requirements in lieu of MCLs to control unacceptable levels of certain contaminants, such as viruses, bacteria, and turbidity.

Variances and Exemptions

Variances and exemptions are exceptions to certain elements of a National Primary Drinking Water Regulation, agreed upon by the primacy agency and the public water system, that allow a system that cannot meet the MCL or treatment technique requirement of a regulation to continue operation without receiving a violation of that requirement while working towards full compliance. There are specific circumstances and procedures set out in SDWA §1415 and §1416. Currently, the State of Alaska grants an exemption for one chemical contaminant (arsenic) and a variance for total coliform, that extends the sample hold time from 30 hours to 48 hours under specific circumstances (remote locations).

Obtaining a Copy of the 2020 Alaska Public Water System Compliance Report



As required by the SDWA Amendments of 1996, the State of Alaska DW Program has made the Alaska PWS Annual Compliance Report for 2020 available to the public. Interested individuals can obtain a copy of the Alaska PWS Annual Compliance Report for 2020 by accessing the DW Program webpage, or by contacting Jeanine Vance or Kenna Billups.

Drinking Water Program webpage: http://dec.alaska.gov/eh/dw.aspx

Direct Link to Annual Compliance Report: http://dec.alaska.gov/eh/dw/annual-compliance/

Address of Responsible State Department: 555 Cordova Street, Anchorage, AK 99501

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Attachment #1

State of Alaska Public Water System Violations for CY 2020

Rule Name		MCL		Treatment Technique		Monitoring		Other Violation	
		Systems in violation	Violations	Systems in violation	Violations	Systems in violation	Violations	Systems in violation	
Total Coliform Rule + Revised Total Coliform Rule (Violation Codes: MCL 1A; Treatment Technique 2A, 2B, 2C, 2D; Monitoring 3A, 3B, 23; Other 5A, 28)	3	3	42	35	913	282	140	132	
Surface Water Treatment Rules (Violation Codes: Treatment Technique 33, 37, 40, 41, 42, 43, 44, 45 47; Monitoring 29, 31, 32, 36, 38)			91	26	749	103			
Ground Water Rule (Violation Codes: Treatment Technique 41, 42, 45, 48; Monitoring 19, 31, 34)			196	98	24	16			
Disinfection Byproducts Rules (Violation Codes: MCL 02, 11, 13; Treatment Technique 12, 46; Monitoring 27, 30, 35)	71	21	0	0	308	112			
Inorganic Contaminants (IOCs) (Violation Codes: MCL 01, 02; Monitoring 03, 04)	33	13			117	105			
Volatile Organic Contaminants (VOCs) (Violation Codes: MCL 01, 02; Monitoring 03, 04)	0	0			966	34			
Synthetic Organic Contaminants (SOCs) (Violation Codes: MCL 01, 02; Monitoring 03, 04)	0	0			0	0			
Radionuclides (Violation Codes: MCL 01, 02; Monitoring 03, 04)	3	1			59	7			
Lead and Copper Rule (Violation Codes: Treatment Technique 57, 58, 59, 63, 64, 65; Monitoring 51, 52, 56, 66)			4	4	181	92			
Consumer Confidence Report Rule (Violation Codes: Reporting 71)							70	54	
Public Notification Rule (Violation Codes: Reporting 75)							7	5	
Total Number of Federally Regulated PWSs in Alaska CY 2020:					1,369				
	Total Number of PWSs with 1 or more Violations, 44% of PWSs (all rules, all violation types as noted above):					602			
	Total Number of Violations in CY 2020:				3,977*				
*includes violations that have been resolved or returned to compliance									

DEFINITIONS

Maximum Contaminant Level (MCL) - Under the Safe Drinking Water Act (SDWA), the EPA sets national limits on regulated contaminant levels in drinking water to ensure that the water is safe for human consumption. These limits are known as MCLs.

Treatment Techniques (TT) - For some regulations, the EPA establishes treatment techniques in lieu of MCLs to control unacceptable levels of certain contaminants. For example, treatment techniques have been established for viruses, bacteria, and turbidity.

Monitoring Violations - For this report, significant monitoring violations are generally defined as any major monitoring violation that occur during the calendar year of the report. A significant monitoring violation, with rare exceptions, occurs when no samples are taken or no results are reported during a compliance period.

NOTES:

- 1) This report includes only the federal violations specified by EPA guidance. It does not include state violations.
- 2) For CY2020 Report, violations that have returned to compliance (RTCd) or resolved in 2020 have been included per the report instructions. In past reports, only open or unresolved violations were included.

Attachment #2

Public Water Systems with Maximum Contaminant Level and/or Treatment Technique Violations for CY 2020

Bolded system names indicate multiple violations issued for rule during CY 2020 PWS in grey highlight have fully resolved or RTCd the violation(s) in 2020

	Chemical/Radionuclide Rules Maximum Contaminant Level Exceedance Violation								
	(Violation Code 01, 02)								
PWSID	Water System Name	System Type	Population Served	Contaminant					
AK2223624	BLUFFVIEW ACRES WATER SYSTEM	CWS	100	Arsenic					
AK2220473	CAMERON ACRES	CWS	35	Arsenic					
AK2340141	DIOMEDE JOINT UTILITIES	CWS	184	Arsenic					
AK2210320	FOUR SEASONS TC	CWS	365	Arsenic					
AK2226049	HEALTH QUEST THERAPY INC	NTNCWS	165	Arsenic					
AK2243658	KB SUB. WATER SERVICE ASSOC.	CWS	170	Arsenic					
AK2210396	L & L TC	CWS	75	Arsenic					
AK2220037	MEADOW BROOK SUBDIVISION	CWS	465	Arsenic					
AK2220472	MSBSD BERYOZOVA SCHOOL	NTNCWS	29	Arsenic					
AK2224476	QUIET CIRCLE APARTMENTS	CWS	90	Arsenic					
AK2241012	RIVER TERRACE TC	CWS	132	Arsenic					
AK2224337	SHEENA MAY ESTATES	CWS	74	Arsenic					
AK2224337 AK2223315	SNOWSHOE WATER SYSTEM	CWS	180	Arsenic					
AK2340191	WALES WATER SYSTEM	CWS	173	Combined Uranium					
AK2340191			_						
	Revised Total Coliform Rule Maximum Co		Exceedance vio	lation					
	(Violation C	lode IA)							
_	_	_	Population						
PWSID	Water System Name	System Type	Served	Contaminant					
AK2315400	GRAF RHEENEERHAAJII	TNCWS	27	E.coli					
AK2222351	MILLERS MARKET	TNCWS	49	E.coli					
AK2211091	SOUTH PARK ESTATE TC	CWS	175	E.coli					
Disinfection Byproducts Rule Maximum Contaminant Level Exceedance Violation									
	(Violation Code	02, 11, 13)	(Violation Code 02, 11, 13)						
PWSID	Water System Name	System Type	Population Served	Contaminant					
PWSID AK2271999	•	System Type CWS	Served	Contaminant HAA5					
AK2271999	BETHEL-CITY S/D WATER	CWS	Served 1,650						
AK2271999 AK2300183	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER	CWS CWS	Served 1,650 76	HAA5 TTHM & HAA5					
AK2271999	BETHEL-CITY S/D WATER	CWS	Served 1,650	HAA5					
AK2271999 AK2300183 AK2120436	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE	CWS CWS CWS	Served 1,650 76 199	HAA5 TTHM & HAA5 TTHM					
AK2271999 AK2300183 AK2120436 AK2120193	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS	CWS CWS CWS	Served 1,650 76 199 1,475	HAA5 TTHM & HAA5 TTHM HAA5					
AK2271999 AK2300183 AK2120436 AK2120193 AK2340222	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM	CWS CWS CWS CWS CWS	Served 1,650 76 199 1,475 160	HAA5 TTHM & HAA5 TTHM HAA5 TTHM					
AK2271999 AK2300183 AK2120436 AK2120193 AK2340222 AK2270299	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM EMMONAK WATER SYSTEM	CWS CWS CWS CWS CWS CWS	\$erved 1,650 76 199 1,475 160 820	HAA5 TTHM & HAA5 TTHM HAA5 TTHM TTHM					
AK2271999 AK2300183 AK2120436 AK2120193 AK2340222 AK2270299 AK2360272	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM EMMONAK WATER SYSTEM GALENA WTP1 - CITY	CWS CWS CWS CWS CWS CWS CWS CWS	\$erved 1,650 76 199 1,475 160 820 490	HAA5 TTHM & HAA5 TTHM HAA5 TTHM TTHM TTHM TTHM					
AK2271999 AK2300183 AK2120436 AK2120193 AK2340222 AK2270299 AK2360272 AK2380214	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM EMMONAK WATER SYSTEM GALENA WTP1 - CITY GULKANA VILLAGE	CWS CWS CWS CWS CWS CWS CWS CWS CWS	\$erved 1,650 76 199 1,475 160 820 490 90	HAA5 TTHM & HAA5 TTHM HAA5 TTHM TTHM TTHM TTHM & HAA5 TTHM					
AK2271999 AK2300183 AK2120436 AK2120193 AK2340222 AK2270299 AK2360272 AK2380214 AK2120541	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM EMMONAK WATER SYSTEM GALENA WTP1 - CITY GULKANA VILLAGE HOLLIS SCHOOL	CWS	\$erved 1,650 76 199 1,475 160 820 490 90 42	HAA5 TTHM & HAA5 TTHM HAA5 TTHM TTHM TTHM TTHM & HAA5 TTHM HAA5					
AK2271999 AK2300183 AK2120436 AK2120193 AK2340222 AK2270299 AK2360272 AK2380214 AK2120541 AK2120224	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM EMMONAK WATER SYSTEM GALENA WTP1 - CITY GULKANA VILLAGE HOLLIS SCHOOL HYDABURG	CWS	\$erved 1,650 76 199 1,475 160 820 490 90 42 415	HAA5 TTHM & HAA5 TTHM HAA5 TTHM TTHM TTHM TTHM & HAA5 TTHM HAA5 TTHM HAA5					
AK2271999 AK2300183 AK2120436 AK2120193 AK2340222 AK2270299 AK2360272 AK2380214 AK2120541 AK2120224 AK2130083	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM EMMONAK WATER SYSTEM GALENA WTP1 - CITY GULKANA VILLAGE HOLLIS SCHOOL HYDABURG KAKE MUNICIPAL WATER	CWS	\$erved 1,650 76 199 1,475 160 820 490 90 42 415 415	HAA5 TTHM & HAA5 TTHM HAA5 TTHM TTHM TTHM TTHM & HAA5 TTHM HAA5 TTHM HAA5					
AK2271999 AK2300183 AK2120436 AK2120193 AK2340222 AK2270299 AK2360272 AK2380214 AK2120541 AK2120224 AK2130083 AK2120169	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM EMMONAK WATER SYSTEM GALENA WTP1 - CITY GULKANA VILLAGE HOLLIS SCHOOL HYDABURG KAKE MUNICIPAL WATER KLAWOCK	CWS	\$erved 1,650 76 199 1,475 160 820 490 90 42 415 415 904	HAA5 TTHM & HAA5 TTHM HAA5 TTHM TTHM TTHM TTHM & HAA5 TTHM HAA5 TTHM HAA5 HAA5 HAA5					
AK2271999 AK2300183 AK2120436 AK2120193 AK2340222 AK2270299 AK2360272 AK2380214 AK2120541 AK2120224 AK2130083 AK2120169 AK2340060	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM EMMONAK WATER SYSTEM GALENA WTP1 - CITY GULKANA VILLAGE HOLLIS SCHOOL HYDABURG KAKE MUNICIPAL WATER KLAWOCK KOTZEBUE MUN. WATER SYSTEM	CWS	\$erved 1,650 76 199 1,475 160 820 490 90 42 415 415 904 3,234	HAA5 TTHM & HAA5 TTHM HAA5 TTHM TTHM TTHM TTHM & HAA5 TTHM HAA5 TTHM HAA5 TTHM & HAA5					
AK2271999 AK2300183 AK2120193 AK2340222 AK2270299 AK2360272 AK2380214 AK2120541 AK2120224 AK2130083 AK2120169 AK2340060 AK2272017	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM EMMONAK WATER SYSTEM GALENA WTP1 - CITY GULKANA VILLAGE HOLLIS SCHOOL HYDABURG KAKE MUNICIPAL WATER KLAWOCK KOTZEBUE MUN. WATER SYSTEM KWETHLUK NEW PIPED WATER SYSTEM	CWS	\$erved 1,650 76 199 1,475 160 820 490 90 42 415 415 904 3,234 760	HAA5 TTHM & HAA5 TTHM HAA5 TTHM TTHM TTHM TTHM & HAA5 TTHM HAA5 TTHM HAA5 TTHM & HAA5					
AK2271999 AK2300183 AK2120436 AK2120193 AK2340222 AK2270299 AK2360272 AK2380214 AK2120541 AK2120224 AK2130083 AK2120169 AK2340060 AK2272017 AK2280155	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM EMMONAK WATER SYSTEM GALENA WTP1 - CITY GULKANA VILLAGE HOLLIS SCHOOL HYDABURG KAKE MUNICIPAL WATER KLAWOCK KOTZEBUE MUN. WATER SYSTEM KWETHLUK NEW PIPED WATER SYSTEM MCGRATH WATER SYSTEM	CWS	\$erved 1,650 76 199 1,475 160 820 490 90 42 415 415 904 3,234 760 341	HAA5 TTHM & HAA5 TTHM HAA5 TTHM TTHM TTHM TTHM & HAA5 TTHM HAA5 TTHM HAA5 TTHM & HAA5					
AK2271999 AK2300183 AK2120193 AK2340222 AK2270299 AK2360272 AK2380214 AK2120541 AK2120224 AK2130083 AK2120169 AK2340060 AK2272017 AK2280155 AK2291130	BETHEL-CITY S/D WATER CHALKYITSIK VILLAGE WATER COFFMAN COVE CRAIG PUBLIC WORKS DEERING UTILITY SYSTEM EMMONAK WATER SYSTEM GALENA WTP1 - CITY GULKANA VILLAGE HOLLIS SCHOOL HYDABURG KAKE MUNICIPAL WATER KLAWOCK KOTZEBUE MUN. WATER SYSTEM KWETHLUK NEW PIPED WATER SYSTEM MCGRATH WATER SYSTEM TATITLEK WATER SYSTEM	CWS	\$erved 1,650 76 199 1,475 160 820 490 90 42 415 415 904 3,234 760 341 95	HAA5 TTHM & HAA5 TTHM HAA5 TTHM TTHM TTHM TTHM & HAA5 TTHM HAA5 TTHM HAA5 TTHM & HAA5					

Disinfection Byproducts Rule Maximum Contaminant Level Exceedance Violation (Violation Code 02, 11, 13)							
PWSID	Water System Name	System Type	Population Served	Contaminant			
AK2120012	VALLENAR VIEW MOBILE HOME PARK	CWS	225	TTHM & HAA5			
AK2120143	WRANGELL	CWS	2,300	HAA5			
	Revised Total Coliform Rule Treatment Technique Violation						
	(Violation Code 2A, 2C, 2D)						
	(, _ =,	Population				
PWSID	Water System Name	System Type	Served	Rule			
AK2261240	ALASKA GENERAL SEAFOODS NAKNEK - CANNERY	TNCWS	600	RTCR			
AK2330052	ARCTIC WOLF CAMP	TNCWS	62	RTCR			
AK2271148	BETHEL TRAILER COURT	CWS	500	RTCR			
AK2261630	BRISTOL BAY LODGE	TNCWS	46	RTCR			
AK2262282	COPPER RIVER SEAFOODS NAKNEK	TNCWS	120	RTCR			
AK2213140	CREEKWOOD INN AND RV PARK	TNCWS	300	RTCR			
AK2270299	EMMONAK WATER SYSTEM	CWS	820	RTCR			
AK2121501	GEORGE INLET CANNERY	TNCWS	129	RTCR			
AK2218819	GIRDWOOD BREWING COMPANY	TNCWS	55	RTCR			
AK2215566	HOMER DRIVE APTS.	CWS	50	RTCR			
AK2120224	HYDABURG	CWS	415	RTCR			
AK2249994	JERSEY SUBS KASILOF	TNCWS	42	RTCR			
AK2262107	KATMAI FISHING LODGE	TNCWS	112	RTCR			
AK2262474	LFS NAKNEK MARINE CENTER	TNCWS	50	RTCR			
AK2121522	MCKENZIE INLET LOGGING CAMP	NTNCWS	45	RTCR			
AK2249226	NINILCHIK 132.6 CABINS AND RV PARK	TNCWS	50	RTCR			
AK2263060	NORTH PACIFIC SEAFOODS TOGIAK FISHERIES	TNCWS	100	RTCR			
AK2261143 AK2241703	NORTH PACIFIC SEAFOODS, PEDERSON POINT	TNCWS	300 152	RTCR RTCR			
AK2241703 AK2260456	PACIFIC STAR SEAFOODS K1 PETER PAN SEAFOOD NAKNEK	TNCWS	98	RTCR			
AK2249233	PIROSHKI COFFEE TEA SHOPPE	TNCWS	52	RTCR			
AK2261606	RAINBOW KING LODGE	TNCWS	55	RTCR			
AK2249379	RESURRECTION ROADHOUSE RESTAURANT, WELL	TNCWS	100	RTCR			
AK2249256	RW BIG EDDY RESORT	TNCWS	70	RTCR			
AK2243161	SALTRY	TNCWS	75	RTCR			
AK2249995	SEWARD WINDSONG LODGE EMPLOYEE AREA, WEL	TNCWS	85	RTCR			
AK2249104	SEWARD WINDSONG LODGE WELL #4	TNCWS	174	RTCR			
AK2249086	SEWARD WINDSONG LODGE, WELL #1	TNCWS	241	RTCR			
AK2280040	SHAGELUK WATER SYSTEM	CWS	60	RTCR			
AK2263068	SILVER BAY SEAFOODS DREWS SHARED WELL	TNCWS	56	RTCR			
AK2263069	SILVER BAY SEAFOODS NAKNEK	TNCWS	500	RTCR			
AK2245082	STERLING BAPTIST CHURCH	TNCWS	135	RTCR			
AK2260553	USNPS KATMAI BROOKS CAMP	TNCWS	350	RTCR			
AK2133333	WHALERS COVE LODGE	TNCWS	65	RTCR			
AK2130423	YAKUTAT LODGE BAR AND RESTAURANT	TNCWS	30	RTCR			
	Surface Water Treatment Rules Tre (Violation Code 33, 37, 40, 4	•					
			Population				
PWSID	Water System Name	System Type	Served	Rule			
AK2260595	ADAK UTILITIES	CWS	325	SWTRs			
AK2291952	CHENEGA	CWS	50	SWTRs			
AK2260228	CHIGNIK BAY WATER SYSTEM	CWS	302	SWTRs			
AK2270257	GOODNEWS BAY	CWS	250	SWTRs			
AK2280066	GRAYLING WATER SYSTEM	CWS	195	SWTRs			
		NTNCWS	42	SWTRs			
AK2120541 AK2220692	HOLLIS SCHOOL ISLANDER BAR & RESTAURANT	TNCWS	74	SWTRs			

Surface Water Treatment Rules Treatment Technique Violation						
(Violation Code 33, 37, 40, 41, 42, 43, 44, 45, 47)						
PWSID	Water System Name	System Type	Population Served	Rule		
	•	, , , , , , , , , , , , , , , , , , , ,				
AK2340117	KIVALINA WATER SYSTEM	CWS	452	SWTRs		
AK2271025	KONGIGANAK WATER SYSTEM	CWS	539	SWTRs		
AK2272017	KWETHLUK NEW PIPED WATER SYSTEM	CWS	760	SWTRs		
AK2270613	LKSD TUNUNAK PAUL ALBERT HS	CWS	385	SWTRs		
AK2121522	MCKENZIE INLET LOGGING CAMP	NTNCWS	0	SWTRs		
AK2271874	NATIVE VILLAGE OF SLEETMUTE	CWS	82	SWTRs		
AK2260260	NONDALTON	CWS	205	SWTRs		
AK2250061	OLD HARBOR	CWS	216	SWTRs		
AK2260359	PERRYVILLE WATER SYSTEM	CWS	130	SWTRs		
AK2261216	PETER PAN SEAFOOD PORT MOLLER	TNCWS	140	SWTRs		
AK2271059	PLATINUM CITY WATER SYSTEM	CWS	51	SWTRs		
AK2250045	PORT LIONS	CWS	175	SWTRs		
AK2330110	SA EXPLORATION SLEIGH CAMP #2	TNCWS	140	SWTRs		
AK2340484	SHISHMAREF WATER SYSTEM	CWS	572	SWTRs		
AK2262351	TRIDENT SEAFOODS INC. SAND PT	NTNCWS	400	SWTRs		
AK2340387	UNALAKLEET CITY WATER SUPPLY	CWS	757	SWTRs		
AK2250126	USCG STATION KODIAK	CWS	3,092	SWTRs		
Ground Water Pule Treatment Technique Violation						

Ground Water Rule Treatment Technique Violation

(Violation Code 41, 42, 45, 48)

PWSID	Water System Name	System Type	Population Served	Rule
AK2272747	AKIACHAK WATER SYSTEM	CWS	627	Ground Water Rule
AK2262705	ALASKA GENERAL SEAFOODS NAKNEK-FREEZING	TNCWS	120	Ground Water Rule
AK2298608	ALDERWOOD	CWS	175	Ground Water Rule
AK2224159	ALEUTIAN ESTATES #1	CWS	63	Ground Water Rule
AK2227701	AMERICAN LEGION POST 15	TNCWS	27	Ground Water Rule
AK2247490	ANCHOR POINT SAFE WATER CORPORATION	CWS	348	Ground Water Rule
AK2211059	ASD HUFFMAN ELEMENTARY SCHOOL	NTNCWS	506	Ground Water Rule
AK2271033	ATMAUTLUAK WATER SYSTEM	CWS	311	Ground Water Rule
AK2315146	BADGER ROAD BAPTIST CHURCH	TNCWS	40	Ground Water Rule
AK2270401	BETHEL LONGHOUSE HOTEL	TNCWS	90	Ground Water Rule
AK2271999	BETHEL-CITY S/D WATER	CWS	1,650	Ground Water Rule
AK2212974	BIRCHWOOD SALOON	TNCWS	159	Ground Water Rule
AK2391956	BLACK DIAMOND GOLF EMPLOYEE HOUSING	TNCWS	65	Ground Water Rule
AK2211708	BOREALIS ALPHA WATER SYSTEM	CWS	30	Ground Water Rule
AK2262902	BRISTOL BAY NATIVE ASSOC.	NTNCWS	120	Ground Water Rule
AK2291300	CARIBOU HOTEL & RESTAURANT	TNCWS	260	Ground Water Rule
AK2220482	CENTRAL COMMERCIAL PARK	CWS	32	Ground Water Rule
AK2261096	CHIGNIK LAKE WATER SYSTEM	CWS	220	Ground Water Rule
AK2272012	CHUATHBALUK WATER SYSTEM	CWS	123	Ground Water Rule
AK2300769	CIRCLE WASHETERIA	CWS	110	Ground Water Rule
AK2260202	CLARKS POINT WATER SYSTEM	CWS	128	Ground Water Rule
AK2212924	COHOE SUBDIVISION	CWS	36	Ground Water Rule
AK2242351	COOPER LANDING GROCERY	TNCWS	56	Ground Water Rule
AK2280302	CROOKED CREEK WATERING POINT	CWS	147	Ground Water Rule
AK2390358	DENALI CABINS, SO./MILE 229	TNCWS	96	Ground Water Rule
AK2260197	DILLINGHAM WATER SYSTEM	CWS	2,419	Ground Water Rule
AK2218593	DIV OF PARKS INDIAN VALLEY	TNCWS	100	Ground Water Rule
AK2380620	DOT & PF TOK COMBINED FACILITY	TNCWS	26	Ground Water Rule
AK2213409	DOUBLE MUSKY INN	TNCWS	178	Ground Water Rule
AK2210794	FOREST PARK TC	CWS	175	Ground Water Rule
AK2242694	GOOD TIME CHARLIES	TNCWS	202	Ground Water Rule
AK2220033	HEART OF WILLOW MEDICAL BUILDING	TNCWS	154	Ground Water Rule
AK2225970	HIDDEN HILLS BAPTIST CHURCH	TNCWS	30	Ground Water Rule
AK2225261	HILLTOP ASSEMBLY OF GOD	TNCWS	44	Ground Water Rule
AK2280074	HOLY CROSS WATER SYSTEM	CWS	182	Ground Water Rule

	Ground Water Rule Treatment Technique Violation						
	(Violation Code 41, 42, 45, 48) Population						
PWSID	Water System Name	System Type	Served	Rule			
AK2218651	HOLY SPIRIT CENTER	TNCWS	29	Ground Water Rule			
AK2211897	KATHY O ESTATES	CWS	242	Ground Water Rule			
AK2225058	KENDALL AUTOMOTIVE GROUP - SHOWROOM	NTNCWS	55	Ground Water Rule			
AK2340565	KOBUK WATER SYSTEM	CWS	93	Ground Water Rule			
AK2260040	KOLIGANEK WATER SYSTEM	CWS	167	Ground Water Rule			
AK2271732	KSD ANIAK SECONDARY SCHOOL	NTNCWS	80	Ground Water Rule			
AK2272751	KSD UPPER KALSKAG PRIMARY SCHOOL	NTNCWS	50	Ground Water Rule			
AK2260634	L&PSD NEWHALEN SCHOOL	NTNCWS	73	Ground Water Rule			
AK2391736	LDS / DENALI CHAPEL	TNCWS	52	Ground Water Rule			
AK2226017	LITTLE FRIENDS CHILDCARE	NTNCWS	47	Ground Water Rule			
AK2270972	LKSD MEKORYUK NUNIVAARMIUT SC	NTNCWS	67	Ground Water Rule			
AK2270980	LKSD NAPASKIAK Z J WILLIAMS SC	NTNCWS	148	Ground Water Rule			
AK2271017	LKSD TUNTUTULIAK ANGAPAK SC	NTNCWS	101	Ground Water Rule			
AK2270697	LOWER KALSKAG WATER SYSTEM	CWS	302	Ground Water Rule			
AK2260090	MANOKOTAK WATER SYSTEM	CWS	293	Ground Water Rule			
AK2216198	MARANATHA WATER UTILITIES	CWS	220	Ground Water Rule			
AK2270273	MARSHALL WATER SYSTEM	CWS	308	Ground Water Rule			
AK2227262	MOM & POPS 4 CORNERS PLAZA	TNCWS	270	Ground Water Rule			
AK2220472	MSBSD BERYOZOVA SCHOOL	NTNCWS	29	Ground Water Rule			
AK2223023	MSBSD CAREER CENTER	NTNCWS	575	Ground Water Rule			
AK2225165	MSBSD KNIK-GOOSE BAY ELEM.	NTNCWS	897	Ground Water Rule			
AK2226452	MSBSD SNOWSHOE ELEMENTARY	NTNCWS	427	Ground Water Rule			
AK2224272	MSBSD TANAINA ELEMENTARY	NTNCWS	439	Ground Water Rule			
AK2220085	MSBSD TWINDLEY BRIDGES CHARTER SCHOOL	NTNCWS	55	Ground Water Rule			
AK2262319	NAPAKIAK W.S. CENTRAL WELL	CWS	330	Ground Water Rule			
AK2260139	NAPASKIAK WEST WATER SYSTEM	CWS	200	Ground Water Rule			
AK2218642	NEAR POINT KNOLL SUBDIVISION	CWS	28	Ground Water Rule			
AK2260066	NEWHALEN WATER SYSTEM	CWS	80	Ground Water Rule			
AK2271721	NIGHTMUTE NEW WATERING POINT	CWS	243	Ground Water Rule			
AK2261143	NORTH PACIFIC SEAFOODS, PEDERSON POINT	TNCWS	300	Ground Water Rule			
AK2360785	NULATO RIVER WELL	CWS	470	Ground Water Rule			
AK2272752	OLD KASIGLUK - AKIUK	CWS	240	Ground Water Rule			
AK2211473	PETERS CREEK TERRACE	CWS	70	Ground Water Rule			
AK2260163	PILOT STATION WATER SYSTEM	CWS	580	Ground Water Rule			
AK2250396	RENDEZVOUS	TNCWS	56	Ground Water Rule			
AK2218652	RIVERS EDGE CONDOMINIUM	CWS	168	Ground Water Rule			
AK2210451	RIVIERA TERRACE TC	CWS	435	Ground Water Rule			
AK2211114	ROMIG PARK S/D	CWS	493	Ground Water Rule			
AK2360866	RUBY WATER SYSTEM	CWS	215	Ground Water Rule			
AK2260294	SAND POINT WATER SYSTEM	CWS	1,102	Ground Water Rule			
AK2223145	SCOTWOOD ESTATES WATER SYSTEM	CWS	90	Ground Water Rule			
AK2218739	SHEPHERD OF THE HILLS LUTHERAN CHURCH	TNCWS	60	Ground Water Rule Ground Water Rule			
AK2225753	SLAVIC EVANGELICAL CHURCH SOUTH PARK ESTATE TC	NTNCWS	368				
AK2211091 AK2222848		CWS	175 75	Ground Water Rule Ground Water Rule			
AK2222848 AK2263045	SWISS CASTLE WATERWORKS SWSD TOGIAK K12 SCHOOL	NTNCWS	280	Ground Water Rule			
AK2380638	TETLIN UTILITY SYSTEM	CWS	150	Ground Water Rule			
AK2210574	TOTEM TRAILER TOWN TC	CWS	480	Ground Water Rule			
AK2210374 AK2261193	TRIDENT SEAFOODS CORP. AKUTAN	NTNCWS	1,400	Ground Water Rule			
AK2201193 AK2370471	TROPHY LODGE	TNCWS	57	Ground Water Rule			
AK2370471 AK2215558	TUDOR EAST APARTMENTS	CWS	78	Ground Water Rule			
AK2270223	TULUKSAK WATER SYSTEM	CWS	373	Ground Water Rule			
AK2270223 AK2271211	TUNTUTULIAK WASHETERIA AND WATERING PT	CWS	350	Ground Water Rule			
AK2271211 AK2210299	TURNAGAIN ARM BBQ PIT	TNCWS	122	Ground Water Rule			
AK2210299 AK2260032	TWIN HILLS WATER SYSTEM	CWS	87	Ground Water Rule			
AK2271790	UNITED PENTECOSTAL CHURCH	TNCWS	121	Ground Water Rule			
WK77/1/20	OMITED FEMILEOSTAL CHUNCH	TINCAAS	121	Journa Water Rule			

Ground Water Rule Treatment Technique Violation (Violation Code 41, 42, 45, 48)							
PWSID	Water System Name	System Type	Population Served	Rule			
AK2250605	USCG BEAR VALLEY GOLF COURSE	TNCWS	59	Ground Water Rule			
AK2250493	VFW KODIAK POST #7056	TNCWS	46	Ground Water Rule			
AK2244955	VOZNESENKA VILLAGE	CWS	300	Ground Water Rule			
AK2220020	WASILLA COMMUNITY CHURCH	TNCWS	74	Ground Water Rule			
AK2340507	WHITE MOUNTAIN WATER SYSTEM	CWS	210	Ground Water Rule			
AK2262571	WINDMILL GRILLE	TNCWS	85	Ground Water Rule			
AK2220429	WOLF EYE CENTER	NTNCWS	77	Ground Water Rule			
	Lead and Copper Rule Treatment Technique Violation (Violation Code 57, 58, 59, 63, 64, 65)						
PWSID	Water System Name	System Type	Population Served	Rule			
AK2272016	NEW KASIGLUK WATER SYSTEM	CWS	276	Lead & Copper Rule			
AK2225995	OMEGA BUILDING	NTNCWS	137	Lead & Copper Rule			
AK2271211	TUNTUTULIAK WASHETERIA AND WATERING PT	CWS	350	Lead & Copper Rule			
AK2310926	VALLEY WATER COMPANY	CWS	1,575	Lead & Copper Rule			