

eDWR – Quick Reference Guide for Laboratories Submitting Analytical Results for Safe Drinking Water Act Compliance Monitoring

Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments
Asbestos (1094)	Yes	<p>Asbestos samples are to be submitted to the E2 system as Sample Type Routine. Asbestos samples are typically collected at the Distribution System (Water Facility State Code: DS), or at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). In both instances, the Sample Point ID is always the same as the Water Facility State Code selected.</p> <p>Report results in Mfl (Millions of fibers per liter)</p> <p><u>Important Note(s):</u></p> <ol style="list-style-type: none"> 1. Aggressive indicator results must be submitted via paper with the asbestos waiver application. These samples should not be submitted electronically through the E2 system. 2. A specific sampling location must be placed in the Street Address Location field for asbestos samples collected in the Distribution System (DS) only. Asbestos samples collected at the point of entry (e.g. TP001001) do not need a value in the Street Address Location field. This is a mandatory field for samples collected at the DS.
Bromate (1011) & Bromide (1004)	Yes	<p>Bromate and bromide samples are to be submitted to the E2 system as Sample Type Routine. Bromate samples are collected at the Treatment Plant (TP). The Water Facility State Code should be a value such as TP001001. The Sample Point ID is always the same as the Water Facility State Code. Please note that the MRL for bromate is method dependent.</p> <p>The MRL for EPA 317.0 Rev 2.0, EPA 326.0, EPA 321.8, EPA 302.0 and EPA 557 is 0.0010 mg/L or 1.0 ug/L.</p> <p>The MRL for EPA 300.1, ASTM D6581-00 and ASTM D6581-08 (A or B) is 0.0050 or 5.0 ug/L.</p>

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		<p>Routine bromide samples are to be collected at the Intake (IN). The Water Facility State Code should be a value such as IN011021. The Sample Point ID is always the same as the Water Facility State Code.</p> <p>Report results for both parameters in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p>
Child Care Data	Yes	<p>As of November 1, 2014, <u>all</u> samples related to child care requirements are to be submitted to the E2 system – <u>even if the child care facility is a non-public or a transient system</u>. The samples are to be submitted as Sample Type “Routine”. All child care related samples should also have a value of “Yes” in the Compliance Sample field of both the General Chemistry and Coliform Excel spreadsheet templates. Submit all child care related coliform samples utilizing the Coliform Excel template. All other child care related parameters should utilize the General Chemistry Excel template.</p> <p><u>Important Notes:</u></p> <ol style="list-style-type: none"> 1. On both the Coliform and General Chemistry templates, set the Replacement Indicator field to “No”. 2. Please contact Joseph Durocher at the Bureau of Safe Drinking Water if a non-public child care facility needs a PWSID number. 3. <u>Drinking Water Watch (DWW) and data for child care requirements:</u> <p>For a child care facility that is classified as a <i>non-public</i> water system, all of the sample results (except for coliform) can be viewed in DWW. You must click on the “By Contaminant Name” option listed under the Chemical Results menu in DWW to view the data. At present, coliform results submitted for a child care that is classified as a non-public system cannot be viewed in DWW.</p>

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		<p>For a child care facility that is classified as a transient or a non-transient water system, the sampling data that is related <i>only</i> to child care requirements (i.e., not part of routine compliance monitoring) can be viewed by clicking on the “By Contaminant Name” option listed under the Chemical Results menu in DWW. Sampling data that is for routine compliance monitoring can be viewed as you normally would.</p> <p>4. To see the required drinking water sampling parameters for childcare licensing, refer to the link below for a license renewal or a new or proposed center:</p> <p>https://www.state.nj.us/dep/watersupply/pdf/ccr-sdw-checklist.pdf</p> <p>5. Important Notice: As of March of 2016, results of coliform sampling data collected for childcare facilities that are not classified as transient or non-transient water systems may be rejected in error by E2-DWR. A workaround has been implemented to address this issue. The rejected sample results of your E2-DWR submission will be reviewed by the Bureau of Safe Drinking Water (BSDW) and manually entered our database. Once the result has been entered our database, your E2-DWR result status will be manually changed from “Rejected” to “Accepted” in the E2 system under the View Lab Samples tab. The results will then be viewable in Drinking Water Watch.</p> <p>6. Another Important Notice: Please be aware that the new analytes required under the new rule Amendments (Perfluorononanoic acid (PFNA), and 1,2,3 trichloropropane (1,2,3-TCP) also apply to Child Care Facilities. Ethylene dibromide (EDB) and dibromochloropropane (DBCP) are also required to be collected and analyzed due to these analytes no longer being included in SOC waivers.</p>
Chlorite (1009) & Chlorine Dioxide (1008)	Yes	The daily chlorite monitoring samples collected at the Point of Entry (POE) are still to be submitted via paper on the Monthly Operator Reports. The monthly chlorite samples are to

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		<p>be submitted to the E2 system as Sample Type Routine. Chlorite samples that are collected in the Distribution System are to use Water Facility State Code: DS. The Sample Point ID for chlorite samples should be CLO2MAX, CLO2FIRST or CLO2AVG.</p> <p>Chlorite samples taken in the Distribution System must be reported to an MRL of 0.0020 mg/L or 2.0 ug/L.</p> <p>Chlorine dioxide is required to be collected daily at the POE and in the Distribution System only when the POE sample has exceeded the MRDL. Only samples that have exceeded the MRDL can be submitted via E2. The daily POE samples must still be submitted on paper via the Monthly Operator Reports. Chlorine dioxide samples submitted to the E2 system should have a Sample Type of Routine. Chlorine dioxide samples are collected in the Distribution System (Water Facility State Code: DS). The Sample Point ID for chlorine dioxide samples will be CLO2FIRST.</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter) for these parameters.</p>
<p><u>Coliform (Total Coliform Rule):</u></p> <p>Total Coliform (3100), E. coli (3014)</p>	<p>Yes</p>	<p>Routine and Repeat samples are collected in the Distribution System (Water Facility State Code: DS). The Sample Point ID is always the same as the Water Facility State Code (i.e. DS).</p> <p>All repeat samples submitted <u>must</u> also include the original lab sample number of the routine positive so that the repeat sample can be linked to the original positive routine sample.</p> <p>* Please note that fecal coliform is no longer accepted under the Revised Total Coliform Rule (RTCR) which becomes effective April 1, 2016.</p> <p><u>Important note(s):</u></p>

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		<ol style="list-style-type: none"> 1. You may submit the original routine samples with the associated repeat samples in the same submission. 2. A street address location must be reported in the Street Address Location field for all coliform samples collected in the distribution system. For transient water systems, include the specific sampling location (e.g. bathroom sink, outdoor spigot). More information regarding this requirement will be forthcoming on the Water Supply Administration’s website at https://www.state.nj.us/dep/watersupply/. Please also note that for Ground Water Rule (GWR) samples collected at the source (e.g. well), there does not need to be a value in the Street Address Location field. 3. E2 will now accept the submittal of repeat samples on repeat samples. When submitting a repeat for a repeat, ensure the sample number of the original repeat sample is in the “Original Lab Sample Number” field. 4. Please note that all positive total coliform samples must have corresponding speciation results (E. coli- SDWIS Code 3014). 5. Two new fields have been added to the E2 Coliform spreadsheet template. The new fields are “Free Chlorine (ppm)” and “Total Chlorine (ppm)”. Please only enter the result value (numeric characters) in these fields with each TCR result. Non-numerical characters will not be accepted in these fields. These fields are optional. 6. If the results of your chlorine sampling indicate a result below the detection level of your equipment, enter a zero in the Free Chlorine or Total Chlorine field. Enter the specific detection level with a “<” in the new Sample Comments field. 7. If water system purchases water from another system and a total coliform positive is detected in the distribution system, the selling water system must collect samples from all of their sources. Additionally, when a lab submits a total coliform sample for the selling water system, it must use the original lab sample number of the purchasing water system’s source samples.

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		<p>8. If a water system analyzed any chlorine samples that are being uploaded in a submission to the E2 system, please add the value “CLWS” to the Sample Comments field. See additional notes under the Disinfectant Residual Section.</p>
<p>Revised Total Coliform Rule (RTCR)</p>	<p>Yes</p>	<p>As you know, the Revised Total Coliform Rule (RTCR) became effective on April 1, 2016 and replaces the TCR. Starting April 1, 2016, seasonal water systems were required to monitor monthly under the RTCR during their operational period in accordance with their RTCR sample siting plan. In addition to standard monitoring, the RTCR requires all seasonal water systems to demonstrate completion of a State-approved start-up procedure prior to serving water to the public. In NJ, the start-up procedure will require each seasonal system to collect a start-up total coliform sample from an area of the distribution system that was depressurized, or other State approved location as specified in the sample siting plan. The startup sample must be analyzed for total coliform and the results are required to be submitted to the Division of Water Supply and Geoscience, along with a Seasonal System Certification of Completion form prior to opening.</p> <p>Typically, seasonal startup samples are not sent electronically through the E2 system. These samples should be sent in to the Division of Water Supply and Geoscience via paper, along with the Seasonal System Certification of Completion form; however, if the seasonal startup sample is collected in the SAME MONTH as the systems’ monthly RTCR monitoring schedule and collected PRIOR TO OPENING, the sample can also be used to satisfy the monthly monitoring requirement and should be submitted both electronically and via paper, along with the Seasonal System Certification of Completion form prior to opening. Please append a value of “SSUP” to the Sample ID (for seasonal startup) to the initial sample.</p> <p>To clarify as to when to submit a sample via paper or electronically through the E2 system, please see the examples below:</p> <p>a. If a water system is scheduled to open on 04/01/2017, and an initial coliform sample is collected on March 30, 2017, then that sample should be submitted using the paper form. This would be considered a seasonal startup sample and not for compliance since it was collected in the month before the opening date.</p>

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		<p>b. If a water system is scheduled to open on 04/15/2017, and an initial coliform sample is collected on 04/07/2017, then submit this sample electronically via the E2 system. This sample can be used for both the monthly compliance and seasonal startup sample. Append the value “SSUP” to the end of the Sample ID when uploading these samples to the E2 system. Remember that this sample must also be submitted on paper along with the Seasonal System Certification of Completion form.</p> <p>Please note that, E2 will reject a sample if there is not an active monitoring schedule at for the water system. Therefore, if you become aware that a seasonal system intends to open earlier than they were originally scheduled to open (i.e. their monitoring schedule begins in April, but they decide to open in March), please contact the Bureau of Safe Drinking Water to have their schedule updated promptly</p>
Copper (1022)	Yes	<p>Important note(s):</p> <ol style="list-style-type: none"> 1. Routine samples are collected in the Distribution System (Water Facility State Code: DS). The Sample Point ID is always the same as Water Facility State Code (i.e. DS) except for samples collected as described below under #5 and #6c. 2. Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter). 3. Copper routine samples collected for Source Water monitoring requirements are taken at the Point of Entry. The Water Facility State Code is the corresponding “WL, TP, CH, or CC” number for the point of entry in which the sample was collected. The Sample Point ID is always the same as Water Facility State Code. 4. A street address location must be provided in the “Street Address Location” field for all copper samples. 5. <u>Systems with Approved Lead & Copper Sampling Plans:</u> The Safe Drinking Water Program is currently reviewing and approving required lead/copper sampling plans. As

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		<p>individual sampling plans are approved, new lead/copper sampling point designations will be assigned and migrated into our SDWIS State system and eventually our E2 system. The new sampling points will continue to always have a Water Facility State Code (WFSC) of “DS”. The actual Sampling Point will change to the designation “PBCU” with a specific number at the end like “PBCU1”, “PBCU2”, etc. A value indicating the location of the new lead/copper sample point (e.g. “2 Main Street”) will still be required with the new sampling points. Please note that the Street Address nomenclature should match the nomenclature used in the sample point location (e.g. “Street” vs. “St”). However, if a sample is collected at a location different from approved PBCU# location, the sample should be submitted with the actual street address that the sample was collected at. The Safe Drinking Water Program will review samples that are collected at unapproved sites separately with the water system.</p> <p>Once a sampling plan has been approved, your individual water system client should be sending you a list indicating the new lead/copper sampling points, their location, and other information. You can also use the E2 Reference Data section under the Laboratory module on the main E2 screen to confirm sample points once a lead/copper sampling plan is approved.</p> <p>6. <u>Customer Requested Samples:</u> Water systems may elect to collect a sample per a customer’s request absent of a copper action level exceedance. The water system must notify the laboratory when a copper sample is taken due to a customer complaint. These samples are not considered compliance samples and should NOT be submitted electronically via the E2 system except if the sample was taken during the system’s compliance monitoring period and is at an appropriate Tier Site and meets the 6-hour minimum stagnation period.</p> <p style="text-align: center;">How to report customer requested samples:</p> <p>a. If the customer requested sample is first draw, collected within the compliance monitoring period, and at the appropriate Tier 1 site, the Sample ID number should be</p>

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		<p>appended with “CUCR” for copper samples and submitted via E2. Both the WFSC and Sampling Point ID have a value of “DS”.</p> <p>b. If the customer requested sample is not first draw, collected outside of the compliance monitoring period, and not from the appropriate Tier, the sample should be submitted on PAPER using form BWSE-16, “Non-Compliance Lead and Copper Tap Monitoring Form”. Do not submit these sample via E2.</p> <p>c. If the water system intends to include the new customer requested sample as a permanent sample location, they must submit a BWSE-18 form to the Bureau of Safe Drinking Water to update their approved sampling point locations. The water system will need to notify the laboratory of the new PBCU# sample location prior to submission of this result in E2. If approved, this new customer request location will be assigned a PBCU# for reporting in E2.</p> <p>7. A water system may be required to conduct additional Water Quality Parameter monitoring as a condition of a Permit or Temporary Treatment Approval (TTA) issued by the Bureau of Water System Engineering (BWSE). Only compliance samples with an approved schedule in SDWIS should be submitted using E2-DWR. All other monitoring specifically required by the Permit or TTA must be submitted by email to WaterSupply@dep.nj.gov. on form BWSE-PA-101 as shown below.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><small>New Jersey Department of Environmental Protection Bureau of Water System Engineering Generic Water Sampling Analysis Spreadsheet for Permit/Temporary Treatment Approval Conditions Form # BWSE-PA-101 Last Updated August 31, 2016</small></p> <p style="text-align: right;"><small>Email this form to: WaterSupply@dep.nj.gov</small></p> <p><small>Permit or Temporary Approval Number* Client Name* Telephone Number*</small></p> <p><small>NOTE: Begin entering samples in row 15 * indicates Required Field</small></p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th colspan="5" style="background-color: #ffffcc;">Sample Information</th> <th colspan="10" style="background-color: #ffffcc;">Analysis Results</th> </tr> <tr> <th style="background-color: #ffffcc;">Lab Sample Number*</th> <th style="background-color: #ffffcc;">PWS ID Number*</th> <th style="background-color: #ffffcc;">Water Facility State Code*</th> <th style="background-color: #ffffcc;">Sample Collection Date*</th> <th style="background-color: #ffffcc;">Sample Collection Time*</th> <th style="background-color: #ffffcc;">Street Address Location</th> <th style="background-color: #ffffcc;">Sample Comments</th> <th style="background-color: #ffffcc;">Parameter Name*</th> <th style="background-color: #ffffcc;">Analysis Start Date*</th> <th style="background-color: #ffffcc;">Analysis Performed By</th> <th style="background-color: #ffffcc;">Analysis Start Time*</th> <th style="background-color: #ffffcc;">Analysis Method Code*</th> <th style="background-color: #ffffcc;">Less Than Indicator</th> <th style="background-color: #ffffcc;">Result*</th> <th style="background-color: #ffffcc;">Result Unit Code*</th> <th style="background-color: #ffffcc;">Radiological Result Count Error</th> <th style="background-color: #ffffcc;">Result Com</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> </div>	Sample Information					Analysis Results										Lab Sample Number*	PWS ID Number*	Water Facility State Code*	Sample Collection Date*	Sample Collection Time*	Street Address Location	Sample Comments	Parameter Name*	Analysis Start Date*	Analysis Performed By	Analysis Start Time*	Analysis Method Code*	Less Than Indicator	Result*	Result Unit Code*	Radiological Result Count Error	Result Com																																																																																																																																																									
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<p><u>Disinfection By-Product Precursor Compliance Report:</u> Alkalinity (1927) & Total Organic Carbon (2920)</p>	<p>No</p>	<p><u>Do not</u> submit using e-DWR. Paper reporting required at this time</p>
<p><u>Disinfection Residuals Report:</u> Chlorine Residual (0999), or Chloramine Residual (1006)</p>	<p>Yes, labs may submit on behalf of a water system.</p>	<p>We will now be accepting these results electronically through the E2 system from certified laboratories. A water system may also still use the paper form to submit the chlorine results.</p> <p><u>Important Note(s):</u></p> <p>1. Two new fields have been added to the E2 Coliform spreadsheet template. The new fields are “Free Chlorine (ppm)” and “Total Chlorine (ppm)”. Please only enter the result value (numeric characters) in these fields with each coliform result. Non-numerical characters will not be accepted in these fields. These fields are optional. If the results of your chlorine sampling indicate a result below the detection level of your equipment, enter a zero in the Free Chlorine or Total Chlorine field. Enter the specific detection level with a “<” in the Sample Comments field. <u>NOTE for LIMS Labs ONLY:</u> When entering a value in the Result Value field, make sure it has 3 decimal places (e.g. 2.000). This field needs to have 3 decimal places or the submission will fail. Additionally, LIMS labs should enter this value “0.000” (a zero with three decimal places) in the Free or Total Chlorine field if the results of your chlorine sampling indicate a result below the detection level of your equipment. This field must have 3 decimal places. This is done automatically for labs that utilize the Excel template to upload data.</p> <p>2. If a water system has an undetectable chlorine residual result, they may choose to analyze for Heterotrophic Plate Count (HPC). The results of the HPC analysis should be put in the free chlorine field. A value of “HPC” should also be placed in the Sample Comments field of the Coliform spreadsheet template. For HPC results <500, report a detectable level of 0.05 mg/L. For HPC results >500, report an undetectable level of 0 mg/L.</p>

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		<p>3. E2/SDWIS will accept both free and total chlorine results, but only one result will be used to calculate the summary. If both the free and total chlorine fields are populated, the free chlorine field will be used to calculate the summaries for compliance. A surface water system, or a system that uses chloramines, should only report total chlorine so that the total chlorine value will be used in the summary calculation.</p> <p>4. When uploading this data through the E2 system, there is a new chlorine residual certification check box. This certification states that some of the chlorine samples and/or results (chlorine data) included in the submission may NOT have been analyzed by the reporting laboratory. For all results being submitted by the laboratory on behalf of the water system please put a value of “CLWS” in the Sample Comments field.</p> <p>5. All chlorine residual samples should be uploaded to the E2 system on the Excel Coliform template with their associated coliform sample. The result values should be in the Free to Total Chlorine fields on that template. No chlorine residual samples should be uploaded on the Excel General Chemistry templates using SDWIS Codes 0999 (Chlorine Residual) or 1006 (Chloramine residual).</p>
<u>Ground Water Rule (GWR)</u>	Yes	<p>If the results of a routine total coliform (TCR) sample collected under the Total Coliform Rule requirements are positive, a source water sample must be collected as per Ground Water Rule requirements. This sample is known as a triggered (TG) sample. This triggered sample must be associated to the original routine positive TCR sample. If a sample is submitted with a sample type TG, then the Original Lab Sample # field must be populated with the Sample # of the original positive routine TCR sample. Triggered samples are collected at the well (Water Facility State Code WL001001 for example). The Sample Point ID is always the same as the Water Facility State Code (i.e. WL001001). Please do not submit e-coli results (SDWIS Code: 3014) if the total coliform sample (SDWIS Code: 3100) is negative. If the total coliform sample is positive, include the results for any e-coli samples. This applies to all triggered, confirmation, and assessment monitoring samples.</p>

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		<p><u>Important note(s):</u></p> <ol style="list-style-type: none"> 1. As stated in the coliform section, two new fields have been added to the E2 Coliform spreadsheet template. The new fields are “Free Chlorine (ppm)” and “Total Chlorine (ppm)”. Please only enter the result value (numeric characters) in these fields with each GWR coliform result. Non-numerical characters will not be accepted in these fields. These fields are optional. If the results of your chlorine sampling indicate a result below the detection level of your equipment, enter a zero in the Free Chlorine or Total Chlorine field. Enter the specific detection level with a “<” in the Sample Comments field. 2. If any triggered source water sample is E. coli positive, then 5 additional source water samples must be collected. These additional source water samples must be submitted to E2 using the Coliform Excel template and are Sample Type Confirmation (CO). Do not use the General Chemistry Excel template to submit any GWR related bacteria results. For confirmation samples, please include a value in the Original Lab Sample Number field. This value must be the Sample ID of the triggered GWR sample. 3. Please add “GWR” to the end of any sample numbers of the initial triggered samples submitted for the GWR. 4. Please note that, the Revised Total Coliform Rule (RTCR) only requires 3 distribution repeat samples (and not 4 as the current rule requires) for water systems under 1,000 in total population. As of April 1, 2016, the Division of Water Supply <u>will no longer</u> allow water systems to use a dual-purpose sample to meet the requirements of both the Ground Water Rule (GWR) and Total Coliform Rule. The water systems will be required to collect 3 repeat samples from the distribution system and a triggered 4th sample from the raw water tap. Prior to April 1, 2016, the Division will continue to accept dual purpose samples. 5. The initial triggered, confirmation, and assessment monitoring GWR samples must be submitted using the Total Coliform Excel Spreadsheet template. No GWR related

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		<p>bacteriological samples are to be submitted using the General Chemistry Excel spreadsheet template.</p> <p>6. If any of the E.-coli confirmation GWR samples are positive, then corrective actions must be implemented. If only the total coliform confirmation GWR samples are positive (and the corresponding speciated e-coli samples are negative), then additional GWR samples must be collected. These additional samples are known as assessment GWR samples and must be submitted via the E2 system. The Sample Point ID is always the same as the Water Facility State Code (i.e. WL001001). Assessment Monitoring samples are sample type routine (RT) and are submitted on the Coliform Excel spreadsheet template. Do not populate the Original Lab Sample Number field with Assessment Monitoring samples.</p> <p>7. When submitting the triggered and confirmation GWR samples, please include the result for both the total coliform (SDWIS Code: 3100) and the E. coli (SDWIS Code: 3014) if the result was positive.</p> <p>8. Please add “AMGWR” at the end of the sample number for Assessment Monitoring samples.</p> <p>9. As of April 1, 2015, GWR Assessment Monitoring samples were required to be submitted electronically via the E2 system. Assessment Monitoring samples are collected at the well (i.e. Water Facility State Code WL001001).</p> <p>10. Please note that, when submitting Triggered or Confirmation samples under the GWR, a negative total coliform result (SDWIS Code: 3100) will satisfy the e-coli coliform (SDWIS Code: 3014) requirement and monitoring schedules. An e-coli coliform (3014) does not need to be reported.</p> <p>11. Important: Do not upload a Triggered (TG) sample result until the initial routine sample is accepted by both E2 and SDWIS.</p>

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		<p>12. If you upload a triggered GWR sample to the E2 system you may encounter the following error message: “Multiple samples are found for Triggered (TG) type, please contact an E2 Coordinator at the Safe Drinking Water for details.” If you get this message, please contact us as soon as possible so we determine the correct Sample ID number.</p> <p>13. When uploading a triggered sample, please ensure that you put the Sample Collection Date of the original routine positive coliform sample in the new Original Lab Sample Date field.</p> <p><u>GWR Example: (Please also refer to GWR chart on page 40 of this document).</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sample Type</th> <th style="text-align: left;">Facility Code</th> <th style="text-align: left;">Sampling Point</th> <th style="text-align: left;">Sample No.</th> <th style="text-align: left;">Sample Code</th> </tr> </thead> <tbody> <tr> <td>Routine positive</td> <td>DS</td> <td>DS</td> <td>1234</td> <td>Routine</td> </tr> <tr> <td>Repeat Samples</td> <td>DS</td> <td></td> <td>1234RPT</td> <td>Repeat</td> </tr> <tr> <td>Initial triggered source water</td> <td>WL001001</td> <td>WL001001</td> <td>1234GWR</td> <td>Triggered</td> </tr> <tr> <td>Confirmation Samples</td> <td>WL001001</td> <td>WL001001</td> <td>1234-2GWR</td> <td>Confirmation</td> </tr> <tr> <td>Assessment Monitoring</td> <td>WL001001</td> <td>56-AMGWR</td> <td></td> <td>Routine</td> </tr> </tbody> </table>	Sample Type	Facility Code	Sampling Point	Sample No.	Sample Code	Routine positive	DS	DS	1234	Routine	Repeat Samples	DS		1234RPT	Repeat	Initial triggered source water	WL001001	WL001001	1234GWR	Triggered	Confirmation Samples	WL001001	WL001001	1234-2GWR	Confirmation	Assessment Monitoring	WL001001	56-AMGWR		Routine
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Confirmation Samples	WL001001	WL001001	1234-2GWR	Confirmation																												
Assessment Monitoring	WL001001	56-AMGWR		Routine																												
<p><u>Haloacetic Acid Report (HAA5):</u></p> <p>Monochloroacetic Acid (2450), Dichloroacetic Acid (2451), Trichloroacetic Acid (2452), Monobromoacetic Acid (2453), Dibromoacetic Acid (2454)</p>	Yes	<p>Routine analytical samples are to be collected from specific Stage 2 sample points. The specific Stage 2 sample point designations are listed in the Reference Data link under the Laboratory module of the E2 system. The Water Facility State Code should be populated with a value of DS (Distribution System) for all samples. The specific sample point found in the E2 Reference Data section must be inputted <u>exactly</u> as it is listed under the E2 Reference Data section or it will be rejected.</p> <p>Please Note: The MRL for monochloroacetic acid is 0.0020 mg/L or 2.0 ug/L. The MRL for the other four haloacetic acids is 0.0010 mg/L or 1.0 ug/L. Please report the individual haloacetic acids to their respective MRL. For monochloroacetic acid, report any concentration below its MRL as < 2.0 ug/L (< 0.0020 mg/L) and for each of the other four haloacetic acids, as < 1.0 ug/L (< 0.0010 mg/L).</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p>																														

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		A specific sampling location must be placed in the Street Address Location field for all HAA5 results. This is a mandatory field.
<u>Interim Enhanced Surface Water Treatment Rule (IESWTR) Turbidity Report:</u> Turbidity (0100)	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.
Individual Filter Assessment Report	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.
Individual Filter Exception Report	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.
<u>Inorganic Compounds:</u> Antimony (1074), Arsenic (1005), Barium (1010), Beryllium (1075), Cadmium (1015), Chromium (1020), Cyanide (1024), Fluoride (1025), Mercury (1035), Nickel (1036), Selenium (1045), Thallium (1085), Sodium (1052)	Yes	<p>Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID is always the same as the Water Facility State Code. For example, if the sample was collected at Water System Facility WL001001, the Point of Entry Sampling Point ID is also WL001001.</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p> <p>Important note(s):</p> <p>1. A water system may be required to conduct additional inorganic compound monitoring as a condition of a Permit or Temporary Treatment Approval (TTA) issued by the Bureau of Water System Engineering (BWSE). Only compliance samples with an approved schedule in SDWIS should be submitted using E2-DWR. All other monitoring specifically required by the Permit or TTA must be submitted by email to WaterSupply@dep.nj.gov. on form BWSE-PA-101 as shown below.</p>

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		<p>New Jersey Department of Environmental Protection Bureau of Water System Engineering Generic Water Sampling Analysis Spreadsheet for Permit/Temporary Treatment Approval Conditions Form # BWSE-P24-101 Last Updated August 31, 2016</p> <p style="text-align: right;">Email this form to: WaterSupply@dep.nj.gov</p> <p>Permit or Temporary Approval Number Certifier Name Telephone Number</p> <p>NOTE: Begin entering samples in row 15 - Indicates Required Field</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th colspan="5" style="background-color: #ffffcc;">Sample Information</th> <th colspan="10" style="background-color: #ffffcc;">Analysis Results</th> </tr> <tr> <th style="background-color: #ffffcc;">Lab Sample Number</th> <th style="background-color: #ffffcc;">PWS ID Number</th> <th style="background-color: #ffffcc;">Water Facility State Code</th> <th style="background-color: #ffffcc;">Sample Collection Date</th> <th style="background-color: #ffffcc;">Sample Collection Time</th> <th style="background-color: #ffffcc;">Street Address Location</th> <th style="background-color: #ffffcc;">Sample Comments</th> <th style="background-color: #ffffcc;">Parameter Name</th> <th style="background-color: #ffffcc;">Analysis Start Date</th> <th style="background-color: #ffffcc;">Analysis Performed By</th> <th style="background-color: #ffffcc;">Analysis Start Time</th> <th style="background-color: #ffffcc;">Analysis Method Code</th> <th style="background-color: #ffffcc;">Less Than Indicator</th> <th style="background-color: #ffffcc;">Result</th> <th style="background-color: #ffffcc;">Result Unit Code</th> <th style="background-color: #ffffcc;">Radiological Result Count Error</th> <th style="background-color: #ffffcc;">Result Comment</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Sample Information					Analysis Results										Lab Sample Number	PWS ID Number	Water Facility State Code	Sample Collection Date	Sample Collection Time	Street Address Location	Sample Comments	Parameter Name	Analysis Start Date	Analysis Performed By	Analysis Start Time	Analysis Method Code	Less Than Indicator	Result	Result Unit Code	Radiological Result Count Error	Result Comment																																																																																																																																																									
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Iron (1028) & Manganese (1032)	Yes	<p>Routine samples collected to satisfy distribution monitoring requirements are collected in the Distribution System (Water Facility State Code: DS). The Sample Point ID is always the same as the Water Facility State Code (i.e. DS).</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p> <p><u>Important note(s):</u></p> <ol style="list-style-type: none"> 1. Iron and Manganese samples collected for Secondary compliance are collected at the Point of Entry. Refer to Secondary section below. 2. A specific sampling location must be placed in the Street Address Location field for iron and manganese samples collected in the Distribution System (DS) only. Iron and manganese samples collected at the point of entry (e.g. TP001001) do not need a value in the Street Address Location field. This is a mandatory field for samples collected at the DS. 3. A water system may be required to conduct additional iron and manganese monitoring as a condition of a Permit or Temporary Treatment Approval (TTA) issued by the Bureau of Water System Engineering (BWSE). Only compliance samples with an approved 																																																																																																																																																																																									

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		<p>schedule in SDWIS should be submitted using E2-DWR. All other monitoring specifically required by the Permit or TTA must be submitted by email to WaterSupply@dep.nj.gov. on form BWSE-PA-101 as shown below.</p> <div style="border: 1px solid black; padding: 5px;"> <p><small>New Jersey Department of Environmental Protection Bureau of Water System Engineering Generic Water Sampling Analysis Spreadsheet for Permit/Temporary Treatment Approval Conditions Form # BWSE-PA-101 Last Updated August 31, 2015</small></p> <p style="text-align: right;"><small>Email this form to: WaterSupply@dep.nj.gov</small></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><small>Permit or Temporary Approval Number*</small></td> <td></td> </tr> <tr> <td><small>Center Name*</small></td> <td></td> </tr> <tr> <td><small>Telephone Number*</small></td> <td></td> </tr> </table> <p><small>NOTE: Begin entering samples in row 15 * - Indicates Required Field</small></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5" style="text-align: left;">Sample Information</th> <th colspan="10" style="text-align: left;">Analysis Results</th> </tr> <tr> <th>Lab Sample Number*</th> <th>PWS ID Number*</th> <th>Water Facility State Code*</th> <th>Sample Collection Date*</th> <th>Sample Collection Time*</th> <th>Street Address Location</th> <th>Sample Comments</th> <th>Parameter Name*</th> <th>Analysis Start Date*</th> <th>Analysis Performed By</th> <th>Analysis Start Time*</th> <th>Analysis Method Code*</th> <th>Less Than Indicator</th> <th>Result*</th> <th>Result Unit Code*</th> <th>Radiological Result Count Error</th> <th>Result Com</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> </div>	<small>Permit or Temporary Approval Number*</small>		<small>Center Name*</small>		<small>Telephone Number*</small>		Sample Information					Analysis Results										Lab Sample Number*	PWS ID Number*	Water Facility State Code*	Sample Collection Date*	Sample Collection Time*	Street Address Location	Sample Comments	Parameter Name*	Analysis Start Date*	Analysis Performed By	Analysis Start Time*	Analysis Method Code*	Less Than Indicator	Result*	Result Unit Code*	Radiological Result Count Error	Result Com																																																																																																																																								
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Lead (1030)	Yes	<p>Important note(s):</p> <ol style="list-style-type: none"> 1. Routine samples are collected in the Distribution System (Water Facility State Code: DS). The Sample Point ID is always the same as Water Facility State Code (i.e. DS) except for samples collected as described below under #5 and #6c. 2. Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter). 3. Lead routine samples collected for Source Water monitoring requirements are taken at the Point of Entry. The Water Facility State Code is the corresponding “WL, TP, CH, or CC” number for the point of entry in which the sample was collected. The Sample Point ID is always the same as Water Facility State Code. 4. A street address location must be provided in the “Street Address Location” field for all lead samples. 																																																																																																																																																																														

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		<p>5. <u>Systems with Approved Lead & Copper Sampling Plans:</u> The Safe Drinking Water Program is currently reviewing and approving required lead/copper sampling plans. As individual sampling plans are approved, new lead/copper sampling point designations will be assigned and migrated into our SDWIS State system and eventually our E2 system. The new sampling points will continue to always have a WFSC of “DS”. The actual Sampling Point will change to the designation “PBCU” with a specific number at the end like “PBCU1”, “PBCU2”, etc. A value indicating the location of the new lead/copper sample point (e.g. “2 Main Street”) will still be required with the new sampling points. Please note that the Street Address nomenclature should match the nomenclature used in the sample point location (e.g. “Street” vs. “St”). However, if a sample is collected at a location different from approved PBCU# location, the sample should be submitted with the actual street address that the sample was collected at. The Safe Drinking Water Program will review samples that are collected at unapproved sites separately with the water system.</p> <p>Once a sampling plan has been approved, your individual water system client should be sending you a list indicating the new lead/copper sampling points, their location, and other information. You can also use the E2 Reference Data section under the Laboratory module on the main E2 screen to confirm sample points once a lead/copper sampling plan is approved.</p> <p>6. <u>Customer Requested Samples:</u> Water systems that have exceeded the lead action level are required to collect lead samples from customers that request it. In addition, some water systems may elect to collect a sample per a customer’s request absent of a lead action level exceedance. The water system must notify the laboratory when a lead sample is taken due to a customer complaint. These samples are not considered compliance samples and should NOT be submitted electronically via the E2 system except if the sample was taken during the system’s compliance monitoring period and is at an appropriate Tier Site and met the 6-hour minimum stagnation period.</p>

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		<p><u>How to report customer requested samples:</u></p> <p>a. If the customer requested sample is first draw, collected within the compliance monitoring period, and at the appropriate Tier 1 site, the Sample ID number should be appended with “PBCR” for lead samples and submitted via E2. Both the Water Facility State Code (WFSC) and Sampling Point ID have a value of “DS”.</p> <p>b. If the customer requested sample is not first draw, collected outside of the compliance monitoring period, and not from the appropriate Tier, the sample should be submitted on PAPER using form BWSE-16, “Non-Compliance Lead and Copper Tap Monitoring Form”. Do not submit these sample via E2.</p> <p>c. If the water system intends to include the new customer requested sample as a permanent sample location, they must submit a BWSE-18 form to the Bureau of Safe Drinking Water to update their approved sampling point locations. The water system will need to notify the laboratory of the new PBCU# sample location prior to submission of this result in E2. If approved, this new customer request location will be assigned a PBCU# for reporting in E2.</p> <p>7. A water system may be required to conduct additional Water Quality Parameter monitoring as a condition of a Permit or Temporary Treatment Approval (TTA) issued by the Bureau of Water System Engineering (BWSE). Only compliance samples with an approved schedule in SDWIS should be submitted using E2-DWR. All other monitoring specifically required by the Permit or TTA must be submitted by email to WaterSupply@dep.nj.gov. on form BWSE-PA-101 as shown below.</p>

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<p>Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWR)</p> <p>Cryptosporidium (3015) Giardia (3008) E-coli (3014) Turbidity (0100)</p>	No	<p>Do not submit using e-DWR. Paper reporting will be required when LT2 monitoring begins. Paper forms will be available on the website at https://www.state.nj.us/dep/watersupply/dws_report.html shortly.</p> <p>Note: Monitoring began in April 2015 for water systems on schedule 1. Monitoring began in October 2015 for water systems on schedule 2 Monitoring began in October 2016 for water systems on schedule 3 Monitoring began in October 2017 for water systems on schedule 4</p> <p><u>Important note(s):</u></p> <p>Do not submit e-coli samples required under the LT2ESWR via the E2 system. You must submit these samples via paper only. Please continue to submit all e-coli samples for the Total Coliform Rule (TCR) or Ground Water Rule (GWR) electronically through the E2 system.</p>																																																																																																																																																			

eDWR – Quick Reference Guide for Laboratories

Submitting Analytical Results for Safe Drinking Water Act Compliance Monitoring

Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments
Monthly Operators Report for Ground Water Systems	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.
Monthly Operators Report for Surface Water Treatment Plants	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.
Nitrate (1040), Nitrite (1041) or Total Nitrate/Nitrite (1038)	Yes	<p>Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID is always the same as the Water Facility State Code selected. For example, if the sample was collected at Water System Facility WL001001, the Point of Entry Sampling Point ID is also WL001001.</p> <p><u>Important Note(s):</u></p> <ol style="list-style-type: none"> Confirmation samples for nitrate or nitrite <u>must</u> be submitted as Sample Type = Confirmation. Since compliance for nitrate and nitrite is not evaluated using running annual average, the requirement for meeting the technique/method based detection limits included in the April 24, 2013, E2 Quick Reference Guide has been rescinded. <u>The detection limit for nitrite will be 0.10 mg/L and that for nitrate will be 1.0 mg/L regardless of the methods used.</u> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p> <ol style="list-style-type: none"> A water system may be required to conduct additional nitrate or nitrite monitoring as a condition of a Permit or Temporary Treatment Approval (TTA) issued by the Bureau of Water System Engineering (BWSE). Only compliance samples with an approved schedule in SDWIS should be submitted using E2-DWR. All other monitoring specifically required by the Permit or TTA must be submitted by email to WaterSupply@dep.nj.gov. on form BWSE-PA-101 as shown below.

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Submitting Analytical Results for Safe Drinking Water Act Compliance Monitoring

Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments																																																																																																																																																																																																			
		<p>New Jersey Department of Environmental Protection Bureau of Water System Engineering Generic Water Sampling Analysis Spreadsheet for Permit/Temporary Treatment Approval Conditions Form # WSE-936 (01) Last Updated August 31, 2016</p> <p style="text-align: right;">Email this form to: WaterSupply@dep.nj.gov</p> <p>Permit or Temporary Approval Number* Certifier Name* Telephone Number*</p> <p>NOTE: Begin entering samples in row 15 * Indicates Required Field</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5" style="text-align: left;">Sample Information</th> <th colspan="10" style="text-align: left;">Analysis Results</th> </tr> <tr> <th>Lab Sample Number</th> <th>PWS ID Number</th> <th>Water Facility State Code</th> <th>Sample Collection Date</th> <th>Sample Collection Time</th> <th>Street Address Location</th> <th>Sample Comments</th> <th>Parameter Name</th> <th>Analysis Start Date</th> <th>Analysis Performed By</th> <th>Analysis Start Time</th> <th>Analysis Method Code</th> <th>Less Than Indicator</th> <th>Result</th> <th>Result Unit Code</th> <th>Radiological Result Count</th> <th>Result Count Error</th> <th>Result Comment</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Sample Information					Analysis Results										Lab Sample Number	PWS ID Number	Water Facility State Code	Sample Collection Date	Sample Collection Time	Street Address Location	Sample Comments	Parameter Name	Analysis Start Date	Analysis Performed By	Analysis Start Time	Analysis Method Code	Less Than Indicator	Result	Result Unit Code	Radiological Result Count	Result Count Error	Result Comment																																																																																																																																																																		
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<p><u>Pesticides, Herbicides, Synthetic Organic Compounds (SOCs) & Other Organic Compounds:</u></p> <p>*Note: These three parameters (ethylene dibromide [EDB], dibromochloropropane [DBCP], and 1,2,3 trichloropropane [123TCP], cannot be reported using Method 524.2 or Method 502.2; if so they will be rejected by E2. The method detection limits under those two methods is too high to meet regulatory requirements. See pages 46-47 for allowable limits.</p>	Yes	<p>Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID is always the same as the Water Facility State Code selected.</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p> <p><u>Important Note(s):</u></p> <ol style="list-style-type: none"> 1. Lab Sample IDs for Synthetic Organic Compounds (SOCs) must include the method number at the end of the sample number. Several SOC parameters can be analyzed with multiple SOC methods. By adding the method number as a suffix to the Sample ID number in E2/SDWIS, the overwriting of the original result will be avoided. Example: Atrazine is an analyte in both EPA Methods 507 and 525.2. If both 507 and 525.2 are being performed on sample AB123, the sample number should be entered as AB123-507 to enter 507 results and AB123-525.2 in order to enter 525.2 results. 2. Please note that there have been some changes related to the SDWIS codes for some SOC parameters as listed below: 																																																																																																																																																																																																			

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Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments																																				
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Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments	
		Analyte	Analyte ID #
		Alachlor (Lasso)	2051
		Aldicarb	2047
		Aldicarb sulfone	2044
		Aldicarb sulfoxide	2043
		Atrazine	2050
		Benzo(a)pyrene	2306
		Carbofuran	2046
		Chlordane	2959
		Dalapon	2031
		*Dibromochloropropane (DBCP) [aka 1,2-Dibromo-3- chloropropane]	2931
		Di(2-ethylhexyl)adipate	2035
		Di(2-ethylhexyl)phthalate (DEHP)	2039
		Dinoseb	2041
		Diquat	2032
		Endothall	2033
		Endrin	2005
		*Ethylene dibromide (EDB) [aka 1,2-Dibromoethane]	2946
		Glyphosate	2034
		Heptachlor	2065
		Heptachlor epoxide	2067

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Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments	
		Hexachlorobenzene	2274
		Hexachlorocyclopentadiene	2042
		Lindane (BHC-Gamma)	2010
		Methoxychlor	2015
		Oxamyl	2036
		Polychlorinated biphenyls (PCBs)	2383
		Pentachlorophenol	2326
		Picloram	2040
		Simazine	2037
		Toxaphene	2020
		*1,2,3, Trichloropropane	2414
		2,3,7,8-TCDD (Dioxin)	2063
		2,4-D	2105
		2,4,5-TP (Silvex)	2110
QC Data for Hazardous Contaminant Analysis	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.	

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Submitting Analytical Results for Safe Drinking Water Act Compliance Monitoring

Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments
<p><u>Radiologicals:</u></p> <p>Gross Alpha (4002) Radium-226 (4020), Radium-228 (4030), Uranium, Combined (4006) Uranium, Mass (4006)</p>	Yes	<p>Radiological samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). All radiological samples should have a sample type of routine. The Sample Point ID is always the same as the Water Facility State Code selected. Analytical results for Gross alpha (4002), Radium-226 (4020), and Radium-228 (4030) must be reported in picocuries per liter (pCi/L). Sample results submitted for Uranium Combined (4006) may be submitted in pCi/L or mg/l.</p> <p><u>Important Note(s):</u></p> <ol style="list-style-type: none"> 1. Please only submit the analytical results of parameters for which an analysis was performed. Do not submit any substituted or calculated values. 2. For gross alpha if a second count is performed, please report the <u>second</u> count only. 3. All radiological samples must include a Radiological Result Count Error result value in the Radiological Result Count Error field on the General Chemistry spreadsheet template (except for total uranium mass and total uranium combined). This field is now mandatory and must have a value in this field. 4. Report any negative radiological result values as less than the MDL. 5. Do not submit monthly permit data. 6. In the calculation of radionuclide compliance, the highest allowed detection limit for Gross Alpha excluding radon (4002) is 3 pCi/L, Radium-226 (4020) is 1 pCi/L, Radium-228 (4030) is 1 pCi/L and Uranium (4006) is 1 ug/L. These values are the regulatory detection limits for Safe Drinking Water federally regulated radionuclides. Provided that a laboratory's detection limit is equal to or less than these regulatory detection limits, a non-detect of an analyzed (not substituted) radionuclide must be reported to E2 as less than the respective regulatory detection limit indicated above. For uranium results reported in

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Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments
		<p>activity units (pCi/L) the laboratory detection limit must be equal to or less than 0.67 pCi/L in order to be reported as less than 1 ug/L.</p> <ol style="list-style-type: none"> 7. The NJDEP Water Supply Operations Element’s analytical database, SDWIS, is incorrectly managing non-detected uranium results that are submitted in activity units (pCi/L). The system is not converting non-detected values in activity units to concentration units, and any result entered that is greater than 0.030 pCi/L is flagged as “Non-Microbial Sample Result has a Lab Reporting Level supplied that exceeds the analyte’s MCL value. (SAMPLE RESULT)”. The system uses 0.030 for comparison since that is the MCL of uranium in mg/L units. Due to this problem, the Water Supply Program is requesting that any non-detected uranium result be reported as either less than 1 ug/L (or 0.001 mg/L) even if the uranium analysis was performed with a radiochemical method. 8. The Detection Level (Detection Limit) field on the General Chemistry spreadsheet template is used for capturing the calculated sample specific gross alpha detection limit as determined using the formula on page 44. Do not place a value in this field for any other radiological result. This field is mandatory for gross alpha (SDWIS Code 4002). If the gross alpha results for a water system has a DL that exceeds 3 pCi/L, that result cannot be used for compliance. 9. The only acceptable method for Gross Alpha will be ECLS-R-GA Rev 8. (A co-precipitation method may be used for a water system only if permission is granted by the Division of Water Supply & Geoscience upon request.) Due to the limited number of characters in the Method Code field, please enter the method as follows: ECLS-R-GA R8 (Remember to include a space between the GA and R8.) 10. Please note that, as of December 1, 2015, the Sample Collection Time, Analysis Start Date, Analysis Start Time, Analysis Completion Date, and Analysis Completion Time fields will be mandatory for gross alpha samples only (SDWIS Code 4002). The start time is the time at which the sample counting is initiated. If

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Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments										
		<p>the sample requires a second count, the date and start time of the second count is to be entered.</p> <p>11. For any gross alpha result requiring a second count, enter “second ct” in the Result Comments field.</p> <p>12. Enter the dissolved solids in units of mg/L for gross alpha in the Result Comments field. This is mandatory for any gross alpha result where the Detection Limit is greater than 3.0 pCi/L.</p> <p>13. Please note that, the federal regulations at 40 CFR 141.25c state that: “For the purpose of monitoring radioactivity concentrations in drinking water, the required sensitivity of the radioanalysis is defined in terms of a Detection Limit (DL). The detection limit shall be that concentration which can be counted with a precision of plus or minus 100 percent at the 95 percent confidence level (1.96σ where σ is the standard deviation of the net counting rate of the sample). The formula for the calculation of DL is found on page 44.</p> <p>For the determination of compliance for gross alpha particle activity, radium-226, radium-228 and uranium, the detection limit must not exceed the concentrations in the table below:</p> <p style="text-align: center;"><u>Detection Limits for Gross Alpha, Radium 226, Radium 228, and Uranium</u></p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;"><u>Contaminant</u></th> <th style="text-align: left;"><u>Detection limit</u></th> </tr> </thead> <tbody> <tr> <td>Gross alpha particle activity</td> <td>3.0 pCi/L</td> </tr> <tr> <td>Radium 226</td> <td>1 pCi/L</td> </tr> <tr> <td>Radium 228</td> <td>1 pCi/L</td> </tr> <tr> <td>Uranium</td> <td>1 μg/L</td> </tr> </tbody> </table> <p>Please Note: The formula used to determine the detection level can be found in #16 under the Notes section of the Guide on Page 44.</p>	<u>Contaminant</u>	<u>Detection limit</u>	Gross alpha particle activity	3.0 pCi/L	Radium 226	1 pCi/L	Radium 228	1 pCi/L	Uranium	1 μ g/L
<u>Contaminant</u>	<u>Detection limit</u>											
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Submitting Analytical Results for Safe Drinking Water Act Compliance Monitoring

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		<p>14. A water system may be required to conduct additional radionuclide monitoring as a condition of a Permit or Temporary Treatment Approval (TTA) issued by the Bureau of Water System Engineering (BWSE). Only compliance samples with an approved schedule in SDWIS should be submitted using E2-DWR. All other monitoring specifically required by the Permit or TTA must be submitted by email to WaterSupply@dep.nj.gov, on form BWSE-PA-101 as shown below.</p> <p>15. When selecting a laboratory for the analysis of gross alpha for New Jersey public water systems and the Private Well Testing Act, please be aware that ECLS-R-GA Rev. 8 (48 Hour Rapid Gross Alpha test) requires that the initial count begin no sooner than 36 hours from sample collection. The counting must be completed before 48 hours of sample collection. These timeframes are essential to the method and must be followed.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><small>New Jersey Department of Environmental Protection Bureau of Water System Engineering Generic Water Sampling Analysis Spreadsheet for Permit/Temporary Treatment Approval Conditions Form # BWSE-PA-101 Last Updated August 31, 2015</small></p> <p style="text-align: right; margin-right: 50px;"><small>Email this form to: WaterSupply@dep.nj.gov</small></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <tr> <td style="width: 80%;"><small>Permit or Temporary Approval Number*</small></td> <td style="width: 20%;"></td> </tr> <tr> <td><small>Center Name*</small></td> <td></td> </tr> <tr> <td><small>Telephone Number*</small></td> <td></td> </tr> </table> <p><small>NOTE: Begin entering samples in row 15 * - Indicates Required Field</small></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <thead> <tr> <th colspan="6" style="text-align: left; background-color: #ffffcc;"><small>Sample Information</small></th> <th colspan="6" style="text-align: left; background-color: #ffffcc;"><small>Analysis Results</small></th> </tr> <tr> <th style="background-color: #ffffcc;"><small>Lab Sample Number*</small></th> <th style="background-color: #ffffcc;"><small>PWS ID Number*</small></th> <th style="background-color: #ffffcc;"><small>Water Facility State Code*</small></th> <th style="background-color: #ffffcc;"><small>Sample Collection Date*</small></th> <th style="background-color: #ffffcc;"><small>Sample Collection Time*</small></th> <th style="background-color: #ffffcc;"><small>Street Address Location</small></th> <th style="background-color: #ffffcc;"><small>Sample Comments</small></th> <th style="background-color: #ffffcc;"><small>Parameter Name*</small></th> <th style="background-color: #ffffcc;"><small>Analysis Start Date*</small></th> <th style="background-color: #ffffcc;"><small>Analysis Performed By</small></th> <th style="background-color: #ffffcc;"><small>Analysis Start Time*</small></th> <th style="background-color: #ffffcc;"><small>Analysis Method Code*</small></th> <th style="background-color: #ffffcc;"><small>Less Than Indicator</small></th> <th style="background-color: #ffffcc;"><small>Result*</small></th> <th style="background-color: #ffffcc;"><small>Result Unit Code*</small></th> <th style="background-color: #ffffcc;"><small>Radiological Result Count Error</small></th> <th style="background-color: #ffffcc;"><small>Result Com</small></th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> </div> <p>16. In the first quarter of 2019, the DEP will require NTNC water systems to comply with the Federal MCLs and monitoring and treatment requirements for radionuclides (gross alpha, uranium, and radium). These requirements already apply to public community water systems.</p>	<small>Permit or Temporary Approval Number*</small>		<small>Center Name*</small>		<small>Telephone Number*</small>		<small>Sample Information</small>						<small>Analysis Results</small>						<small>Lab Sample Number*</small>	<small>PWS ID Number*</small>	<small>Water Facility State Code*</small>	<small>Sample Collection Date*</small>	<small>Sample Collection Time*</small>	<small>Street Address Location</small>	<small>Sample Comments</small>	<small>Parameter Name*</small>	<small>Analysis Start Date*</small>	<small>Analysis Performed By</small>	<small>Analysis Start Time*</small>	<small>Analysis Method Code*</small>	<small>Less Than Indicator</small>	<small>Result*</small>	<small>Result Unit Code*</small>	<small>Radiological Result Count Error</small>	<small>Result Com</small>																																																																				
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Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments						
<u>Regulated Per-and Polyfluoroalkyl Substances (PFAS)</u>	Yes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Parameter (PFAS)</th> <th style="text-align: center;">SDWIS Analyte Code</th> <th style="text-align: center;">Method Code</th> </tr> </thead> <tbody> <tr> <td>Perfluorononanoic acid (PFNA)</td> <td style="text-align: center;">2804</td> <td style="text-align: center;">EPA 537 or EPA 537.1</td> </tr> </tbody> </table> <p>Regulated PFAS compounds shall be submitted as routine samples. Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID is always the same as the Water Facility State Code. For example, if the sample was collected at Water System Facility WL001001, the Point of Entry Sampling Point ID is also WL001001.</p> <p>Important Notes:</p> <p>1. Monitoring Requirements for perfluorononanoic acid (PFNA) and 1,2,3-trichloropropane (1,2,3-TCP): The Division of Water Supply is phasing in the Safe Drinking Water Act (SDWA) monitoring requirements for 1,2,3-TCP and PFNA as follows:</p> <p style="padding-left: 40px;">1st Quarter of 2019: all community water systems using a groundwater source(s) serving a population 10,000 or less and NTNC water systems will be required to begin quarterly monitoring at all points-of-entry to the distribution system; and</p> <p style="padding-left: 40px;">1st Quarter of 2020: all community water systems using a surface water source(s) and all community water systems serving a population greater than 10,000 will begin quarterly monitoring at all points-of entry to the distribution system.</p> <p>Monitoring schedules will be available later this year through the DEP’s Drinking Water Watch Application at https://www9.state.nj.us/DEP_WaterWatch_public/index.jsp. In addition, correspondence will be sent to all water systems confirming their monitoring schedule once available online. Compliance with the new MCLs will be based on a running annual average of four quarters of results.</p>	Parameter (PFAS)	SDWIS Analyte Code	Method Code	Perfluorononanoic acid (PFNA)	2804	EPA 537 or EPA 537.1
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		<p>2. For the purposes of the NJ State Drinking Water Regulations, a detection of PFNA is defined as equal to or greater than 2 ng/L. Results for PFNA must be reported to a DL of 2 ng/L. If the lowest calibration standard is higher than 0.002 ug/L (or 2 ng/L), then an “J” must be included in the result comment field when submitting any result between 2 ng/L and the lowest calibration standard. Results for PFAN must be reported to a detection limit (DL) of 2 ng/L. If the lowest calibration standard is higher than 2 ng/L, then a “J” must be included in the Result Comments field when submitting a result between 2 ng/L and the lowest calibration standard concentration.</p>
<p><u>Secondary Compounds:</u> Foaming Agents – Surfactants (2905), Alkalinity, Total (1927), Aluminum (1002), Chloride (1017), Color (1905), Copper (1022), Corrosivity (1910), Fluoride (1025), Hardness, Carbonate (1916), Iron (1028), Manganese (1032), Odor (1920), pH (1925), Silver (1050), Sulfate (1055),</p>	<p>Yes</p>	<p>Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID is always the same as the Water Facility State Code selected.</p> <p>Results for Color (1905) shall be reported in Color Units (CU). Results for Odor (1920) shall be reported in TON (Threshold Odor Number). Results for pH (1925) shall be reported in PH units (Parts Hydrogen). Results for Temperature, °C (1996) shall be reported in °C (Degrees Celsius). Results for corrosivity shall be reported in MG/L</p> <p>Temperature and pH are to be reported as actual concentrations. Therefore, the Less Than Indicator field shall NOT be valued with the Less Than (<) symbol when entering results for these two parameters.</p> <p>For all other secondary compounds, sample results are to be reported in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p>

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Temperature, °C (1996), Total Dissolved Solids (1930), Zinc (1095)		<p>A specific sampling location must be placed in the Street Address Location field for iron and manganese results collected in the Distribution System (DS) only. Iron and manganese samples collected at the point of entry (e.g. TP001001) do not need a value in the Street Address Location field. This is a mandatory field for samples collected at the DS.</p> <p><u>Important Note(s):</u></p> <ol style="list-style-type: none"> 1. Iron and Manganese samples collected for Distribution System monitoring requirements are collected in the distribution system. Refer to Iron and Manganese section above. 2. For color and odor samples, do not submit a zero for the sample result. You may use a “<” if the result is non-detect. For color use “< 5 CU” and for odor use “< 1 TON” respectively if one or both is not detected. 3. Negative corrosivity (SDWIS Code 1910) sample results can be reported to the E2 system. However, do not submit any corrosivity samples with a zero or “<” as part of the result value. Submissions containing corrosivity samples with a zero of a “<” will now be rejected by the E2 system. 4. A water system may be required to conduct additional secondary compound parameter monitoring as a condition of a Permit or Temporary Treatment Approval (TTA) issued by the Bureau of Water System Engineering (BWSE). Only compliance samples with an approved schedule in SDWIS should be submitted using E2-DWR. All other monitoring specifically required by the Permit or TTA must be submitted by email to WaterSupply@dep.nj.gov, on form BWSE-PA-101 as shown below.

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<p><u>Total Trihalomethane (TTHM4):</u> Chloroform (2941), Bromoform (2942), Bromodichloromethane (2943), Chlorodibromomethane (2944)</p>	Yes	<p>Routine analytical samples are to be collected from specific Stage 2 sample points. The specific Stage 2 sample point designations are listed in the Reference Data link under the Laboratory module of the E2 system. The Water Facility State Code should be populated with a value of DS (Distribution System) for all samples. The specific sample point found in the E2 Reference Data section must be inputted <u>exactly</u> as it is listed under the E2 Reference Data section or it will be rejected.</p> <p>Please Note: The MRL for the individual THMs is 0.0010 mg/L or 1.0 ug/L. When reporting the individual THMs, report any concentration less than this MRL as < 0.0010 mg/L or < 1.0 ug/L.</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p> <p>A specific sampling location must be placed in the Street Address Location field for all TTHM results. This is a mandatory field.</p>																																																																																																																																																																																	

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<p><u>Unregulated Compounds:</u></p>	<p>Yes</p>	<p>All unregulated compounds shall be submitted as routine samples. Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID is always the same as the Water Facility State Code. For example, if the sample was collected at Water System Facility WL001001, the Point of Entry Sampling Point ID is also WL001001.</p> <p>Report results in ug/L</p> <p><u>Important Notes:</u></p> <p>1. When submitting results for Harmful Algal Blooms (HAB) parameters (also known as cyanotoxins) to the E2 system, note that detected concentrations (results greater than the detection limit) will be rejected by SDWIS due to a bug in that system; non-detectable results (less than the detection limit) will be accepted. A workaround has been implemented to address this issue. The rejected HAB sample results will be reviewed by the Bureau of Safe Drinking Water (BSDW) and manually entered into our database. Once the result has been entered our database, the E2-DWR result status will be manually changed from “Rejected” to “Accepted” in the E2 system under the View Lab Samples tab. The results will then be viewable in Drinking Water Watch (DWW).</p> <p>2. Monitoring Requirements for perfluorononanoic acid (PFNA) and 1,2,3-trichloropropane (1,2,3-TCP): The Division of Water Supply is phasing in the Safe Drinking Water Act (SDWA) monitoring requirements for 1,2,3-TCP and PFNA as follows:</p> <p style="padding-left: 40px;">1st Quarter of 2019: all community water systems using a groundwater source(s) serving a population 10,000 or less and NTNC water systems will be required to begin quarterly monitoring at all points-of-entry to the distribution system; and</p> <p style="padding-left: 40px;">1st Quarter of 2020: all community water systems using a surface water source(s) and all community water systems serving a population greater than 10,000 will begin quarterly monitoring at all points-of entry to the distribution system.</p>

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		<p>Monitoring schedules are available through the DEP’s Drinking Water Watch Application at https://www9.state.nj.us/DEP_WaterWatch_public/index.jsp. In addition, correspondence has been sent to all water systems outlining their monitoring schedules. Compliance with the new MCLs will be based on a running annual average of four quarters of results.</p> <p>3. Additional information related to Perfluorononanoic acid (PFNA) can be found in the <u>Regulated Per-and Polyfluoroalkyl Substances (PFAS) Section</u> of this guide.</p> <p>4. Additional information related to 1,2,3-trichloropropane (1,2,3-TCP) can be found in the <u>Pesticides, Herbicides, Synthetic Organic Compounds (SOCs) & Other Organic Compounds Section</u> of this guide.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 60%;">Miscellaneous Unregulated Parameters</th> <th style="width: 20%;">SDWIS Analyte Code</th> <th style="width: 20%;">Method Code</th> </tr> </thead> <tbody> <tr> <td>1,4 Dioxane</td> <td>2049</td> <td>522</td> </tr> <tr> <td>Dichloroethane (1,1-)</td> <td>2978</td> <td>524.3</td> </tr> <tr> <td>Butadiene (1,3-)</td> <td>2486</td> <td>524.3</td> </tr> <tr> <td>17-Alpha-Ethynylestradiol</td> <td>2702</td> <td>EPA 539</td> </tr> <tr> <td>17-Beta-Estradiol</td> <td>2701</td> <td>EPA 539</td> </tr> <tr> <td>4-Androstene-3,17-Dione</td> <td>2705</td> <td>EPA 539</td> </tr> <tr> <td>Bromochloromethane</td> <td>2430</td> <td>524.3</td> </tr> <tr> <td>Bromomethane</td> <td>2214</td> <td>524.3</td> </tr> <tr> <td>Chlorate</td> <td>1007</td> <td>300.1</td> </tr> <tr> <td>Chlorodifluoromethane (HCFC-22)</td> <td>2487</td> <td>524.3</td> </tr> <tr> <td>Chloromethane</td> <td>2210</td> <td>524.3</td> </tr> <tr> <td>Chromium</td> <td>1020</td> <td>200.8</td> </tr> </tbody> </table>	Miscellaneous Unregulated Parameters	SDWIS Analyte Code	Method Code	1,4 Dioxane	2049	522	Dichloroethane (1,1-)	2978	524.3	Butadiene (1,3-)	2486	524.3	17-Alpha-Ethynylestradiol	2702	EPA 539	17-Beta-Estradiol	2701	EPA 539	4-Androstene-3,17-Dione	2705	EPA 539	Bromochloromethane	2430	524.3	Bromomethane	2214	524.3	Chlorate	1007	300.1	Chlorodifluoromethane (HCFC-22)	2487	524.3	Chloromethane	2210	524.3	Chromium	1020	200.8
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		Cobalt (total)	1081	200.8																																	
		Equilin	2703	EPA 539																																	
		Estriol	2704	EPA 539																																	
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<p>-----</p> <p>Per-and Polyfluoroalkyl Substances (PFAS)</p>		<p>-----</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Parameter (PFAs)</th> <th style="text-align: left;">SDWIS Analyte Code</th> <th style="text-align: left;">Method Code</th> </tr> </thead> <tbody> <tr> <td>Perfluorobutane sulfonic acid (PFBS)</td> <td>2801</td> <td>EPA 537</td> </tr> <tr> <td>Perfluoroheptanoic acid (PFHpA)</td> <td>2802</td> <td>EPA 537</td> </tr> <tr> <td>Perfluorohexane sulfonic acid (PFHxS)</td> <td>2803</td> <td>EPA 537</td> </tr> <tr> <td>+ Perfluorononanoic acid (PFNA)</td> <td>2804</td> <td>EPA 537</td> </tr> <tr> <td>Perfluorooctane sulfonic acid (PFOS)</td> <td>2805</td> <td>EPA 537</td> </tr> <tr> <td>Perfluorooctanoic acid (PFOA)</td> <td>2806</td> <td>EPA 537</td> </tr> <tr> <td>Perfluorodecanoic Acid (PFDA)</td> <td>2807</td> <td>EPA 537</td> </tr> <tr> <td>Perfluorododecanoic Acid (PFDOA)</td> <td>2808</td> <td>EPA 537</td> </tr> <tr> <th style="text-align: left;">Parameter (PFAs)</th> <th style="text-align: left;">SDWIS Analyte Code</th> <th style="text-align: left;">Method Code</th> </tr> <tr> <td>Perfluorohexanoic Acid (PFHXA)</td> <td>2809</td> <td>EPA 537</td> </tr> <tr> <td>Perfluorotetradecanoic Acid (PFTA)</td> <td>2810</td> <td>EPA 537</td> </tr> <tr> <td>Perfluorotridecanoic Acid (PFTRDA)</td> <td>2811</td> <td>EPA 537</td> </tr> <tr> <td>Perfluoroundecanoic Acid (PFUNA)</td> <td>2812</td> <td>EPA 537</td> </tr> </tbody> </table> <p>+ PFNA is now regulated; see the new section “<u>Regulated Per-and Polyfluoroalkyl Substances (PFAS)</u>” above</p>	Parameter (PFAs)	SDWIS Analyte Code	Method Code	Perfluorobutane sulfonic acid (PFBS)	2801	EPA 537	Perfluoroheptanoic acid (PFHpA)	2802	EPA 537	Perfluorohexane sulfonic acid (PFHxS)	2803	EPA 537	+ Perfluorononanoic acid (PFNA)	2804	EPA 537	Perfluorooctane sulfonic acid (PFOS)	2805	EPA 537	Perfluorooctanoic acid (PFOA)	2806	EPA 537	Perfluorodecanoic Acid (PFDA)	2807	EPA 537	Perfluorododecanoic Acid (PFDOA)	2808	EPA 537	Parameter (PFAs)	SDWIS Analyte Code	Method Code	Perfluorohexanoic Acid (PFHXA)	2809	EPA 537	Perfluorotetradecanoic Acid (PFTA)	2810	EPA 537	Perfluorotridecanoic Acid (PFTRDA)	2811	EPA 537	Perfluoroundecanoic Acid (PFUNA)	2812	EPA 537
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<p><u>Volatile Organic Compounds (VOC):</u></p> <p>Do not report the following 3 analytes with routine VOC</p>	<p>Yes</p>	<p>Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID will always be the same as the Water Facility State Code.</p> <p>For those Water Systems with a SDW permit requiring the collection of influent/effluent VOC samples on a biweekly or other basis, these results shall not be sent to the NJDEP-</p>																																										

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<p>compliance samples analyzed by Method 524.2 or Method 502.2: ethylene dibromide [EDB] 2946, dibromochloropropane [DBCP] 2931, or 1,2,3 trichloropropane [123TCP] 2414). If these 3 analytes are reported using either Method 524.2 or Method 502.2, they will now be rejected. Please see Note #6 of this Section, along with the <u>Pesticides, Herbicides, Synthetic Organic Compounds (SOCs) & Other Organic Compounds Section</u> for additional information.</p>		<p>BSDW. These results do <u>not</u> have to be on state input forms, or submitted via E-DWR, and should be retained by the water system for inspection. Only quarterly, annual, or once every three-year Point of Entry (POE) compliance VOC samples should be sent to the NJDEP-BSDW</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p> <p><u>Important Note(s):</u></p> <ol style="list-style-type: none"> 1. Do not submit meta xylene (2995) and para xylene (2962) as separate analytes. They must be submitted together as meta and para xylenes using SDWIS Code 2963. This is being required because of the inability to separate and detect the meta and para xylene isomers with analysis by EPA methods 502.2 and 524.2. 2. In reporting total xylenes for compliance, a laboratory must report the sample results for the following: <ul style="list-style-type: none"> Meta and para xylene (2963) Ortho-xylene (2997) and Total Xylenes (2955) 3. When reporting VOCs to the E2 system you are only required to report the 26 regulated compounds in the SDWIS sample schedules to comply with the VOC rule. If you calibrate and analyze for more than the 26 regulated VOC compounds, please submit the results of any unregulated VOC compounds that are detected. 4. The 4 Total Trihalomethane (TTHM) analytes Chloroform (2941), Bromoform (2942), Bromodichloromethane (2943), and Chlorodibromomethane (2944) may possibly appear as VOC compounds as part of a VOC analysis. The E2 system will identify them as TTHM compounds. As a result, the system will require a value in the Street Address Location field even though VOC results do not require a value in this field. If your lab uploads VOCs containing these analytes they may get rejected because there is no value in the Street Address Location field. If this happens, please put a value of “VOC” in the Street Address Location field and resubmit these samples.

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		<p>5. A water system may be required to conduct additional VOC monitoring as a condition of a Permit or Temporary Treatment Approval (TTA) issued by the Bureau of Water System Engineering (BWSE). Only compliance samples with an approved schedule in SDWIS should be submitted using E2-DWR. All other monitoring specifically required by the Permit or TTA must be submitted by email to WaterSupply@dep.nj.gov, on form BWSE-PA-101 as shown below.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><small>New Jersey Department of Environmental Protection Bureau of Water System Engineering Generic Water Sampling Analysis Spreadsheet for Permit/Temporary Treatment Approval Conditions Form # BWSE-PA-101 Last Updated August 31, 2016</small></p> <p style="text-align: right; margin-right: 50px;"><small>Email this form to: WaterSupply@dep.nj.gov</small></p> <p><small>Permit or Temporary Approval Number* Carrier Name* Telephone Number*</small></p> <p><small>NOTE: Begin entering samples in row 15 * Indicates Required Field</small></p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr style="background-color: #ffffcc;"> <th colspan="5">Sample Information</th> <th colspan="10">Analysis Results</th> </tr> <tr style="background-color: #ffffcc;"> <th>Lab Sample Number*</th> <th>PWS ID Number*</th> <th>BWSE Facility State Code*</th> <th>Sample Collection Date*</th> <th>Sample Collection Time*</th> <th>Street Address Location</th> <th>Sample Comments</th> <th>Parameter Name*</th> <th>Analysis Start Date*</th> <th>Analysis Performed By</th> <th>Analysis Start Time*</th> <th>Analysis Method Code*</th> <th>Less Than Indicator</th> <th>Result*</th> <th>Result Unit Code*</th> <th>Radiological Result Count Error</th> <th>Result Com</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> </div>	Sample Information					Analysis Results										Lab Sample Number*	PWS ID Number*	BWSE Facility State Code*	Sample Collection Date*	Sample Collection Time*	Street Address Location	Sample Comments	Parameter Name*	Analysis Start Date*	Analysis Performed By	Analysis Start Time*	Analysis Method Code*	Less Than Indicator	Result*	Result Unit Code*	Radiological Result Count Error	Result Com																																																																																					
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<p><u>Water Quality Parameters:</u> Lead (1030), Copper (1022),</p> <hr style="border-top: 1px dashed black;"/> <p>Temperature, °C (1996), pH (1925), Conductivity (1064), Total Alkalinity (1927), Calcium (1016), Orthophosphate (1044), Silica (1049)</p>	<p>Yes</p>	<p>Although not technically Water Quality Parameters (WQP), Lead and Copper routine samples must be collected at the Point of Entry (POE) when a water system has an Action Level Exceedance (ALE). Lead and copper samples must be analyzed by a certified lab.</p> <hr style="border-top: 1px dashed black;"/> <p>All other parameters in this section can be collected, analyzed and submitted by an Approved Party. They do not have to be collected by a certified lab.</p> <p>Routine samples may be collected at either the Distribution System (Water Facility State Code: DS) or Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009. The Sample Point ID will always be the same as the Water Facility State Code (i.e. DS).</p> <p>For Water Quality parameters that are to be sampled at the Point of Entry, only samples taken from the Point of Entry should be submitted unless requested by the NJDEP-BSDW, (i.e. samples taken before treatment, where applicable, and should not be submitted).</p> <p>Results for the following parameters shall be reported in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter):</p> <p>Lead (1030), Copper (1022), Total Alkalinity (1927), Calcium (1016), Orthophosphate (1044), Silica (1049)</p> <p>Results for pH (1925) shall be reported in PH units (Parts Hydrogen).</p> <p>Results for Conductivity (1064) @ 25°C shall be reported in uMHO/cm.</p> <p>Results for Temperature, °C (1996) shall be reported in °C (Degrees Celsius).</p>

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		<p><u>Important note(s):</u></p> <ol style="list-style-type: none"> 1. Lead and Copper distribution system (DS) samples shall <u>not</u> be reported for Water Quality parameter compliance sampling. 2. A water system may be required to conduct additional Water Quality Parameter monitoring as a condition of a Permit or Temporary Treatment Approval (TTA) issued by the Bureau of Water System Engineering (BWSE). Only compliance samples with an approved schedule in SDWIS should be submitted using E2-DWR. All other monitoring specifically required by the Permit or TTA must be submitted by email to WaterSupply@dep.nj.gov. on form BWSE-PA-101 as shown below. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><small>New Jersey Department of Environmental Protection Bureau of Water System Engineering Generic Water Sampling Analysis Spreadsheet for Permit/Temporary Treatment Approval Conditions Form # BWSE-PA-101 Last Updated August 31, 2015</small></p> <p style="text-align: right; margin-right: 50px;"><small>Email this form to: WaterSupply@dep.nj.gov</small></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <tr> <td style="width: 60%;"><small>Permit or Temporary Approval Number*</small></td> <td></td> </tr> <tr> <td><small>Certifier Name*</small></td> <td></td> </tr> <tr> <td><small>Telephone Number*</small></td> <td></td> </tr> </table> <p><small>NOTE: Begin entering samples in row 15 * Indicates Required Field</small></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <thead> <tr> <th colspan="6" style="text-align: left; background-color: #ffffcc;">Sample Information</th> <th colspan="10" style="text-align: left; background-color: #ffffcc;">Analysis Results</th> </tr> <tr> <th style="width: 10%;">Lab Sample Number</th> <th style="width: 10%;">PWS ID Number*</th> <th style="width: 5%;">Water Facility State Code*</th> <th style="width: 5%;">Sample Collection Date*</th> <th style="width: 5%;">Sample Collection Time*</th> <th style="width: 15%;">Street Address Location</th> <th style="width: 10%;">Sample Comments</th> <th style="width: 5%;">Parameter Name*</th> <th style="width: 5%;">Analysis Start Date*</th> <th style="width: 5%;">Analysis Performed By</th> <th style="width: 5%;">Analysis Start Time*</th> <th style="width: 5%;">Analysis Method Code*</th> <th style="width: 5%;">Less Than Indicator</th> <th style="width: 5%;">Result*</th> <th style="width: 5%;">Result Unit Code*</th> <th style="width: 5%;">Radiological Result Count Entry</th> <th style="width: 5%;">Result Com</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> </div> <ol style="list-style-type: none"> 3. When uploading pH results, please remember to use the correct units. All pH samples MUST use pH units (“PH” on the drop-down menu of the “Result Unit Code” field on the Excel template). Do not use “SU”, “mg/L” or any other unit. Any pH samples submitted with the wrong units cannot be used for compliance and can result in their client receiving a violation. 4. When multiple Water Quality Parameter (WQP) samples are collected at the same street address, please indicate the specific location (i.e. “3rd floor restroom, kitchen 	<small>Permit or Temporary Approval Number*</small>		<small>Certifier Name*</small>		<small>Telephone Number*</small>		Sample Information						Analysis Results										Lab Sample Number	PWS ID Number*	Water Facility State Code*	Sample Collection Date*	Sample Collection Time*	Street Address Location	Sample Comments	Parameter Name*	Analysis Start Date*	Analysis Performed By	Analysis Start Time*	Analysis Method Code*	Less Than Indicator	Result*	Result Unit Code*	Radiological Result Count Entry	Result Com																																																																				
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		<p>sink, etc.) that the sample was collected from. This applies only to samples collected in the Distribution System (DS).</p> <ol style="list-style-type: none"> 5. All orthophosphate results must be reported as “orthophosphate as P”. If using an instrument with a readout for PO₄, multiply that value by 0.326 in order to obtain the “orthophosphate as P” value. This is the “orthophosphate as P” value which must be reported electronically through the E2 system. 6. Monitoring schedules reflect a minimum of 30 days following installation of CCT and/or approval of the WQP Sampling Plan. The effective begin date will be one of four set dates per calendar year and is always the first day of a two-week compliance, i.e., Jan. 1, Jul. 1., Mar./Apr. timeframe (Mar. 26 for 2018), or Sept./Oct. timeframe (Oct. 7 for 2018). The two-week compliance periods are available at https://www.nj.gov/dep/watersupply/dwc-lead-wqpm.html. 7. Compliance is based on the standard 6-month framework: Jan.- Jun. and Jul.-Dec. timeframes. For example, a system scheduled to begin follow-up WQP monitoring on Mar. 26, 2018 is required to complete a full year of compliance monitoring through Mar. 26, 2019 with an optimal WQP recommendation due 30 days later, i.e., Apr. 26, 2019. If approved, optimal WQP monitoring would begin Jul. 1, 2019.

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1. As a guide, the NJDEP periodically provides each Community and Nontransient Noncommunity water system with a monitoring schedule. Please make sure that you obtain the monitoring schedule from your water system which outlines the routine samples required and the specific Water System Facility State Codes and/or Sample Point IDs for each system. Also note, the monitoring schedules may change based on samples and results submitted. Please refer to the Code of Federal Regulations (40 CFR 141) and the New Jersey Safe Drinking Water Act Regulations (N.J.A.C. 7:10) to confirm sampling requirements. Please note that, monitoring schedules are available on the Department’s Drinking Water Watch (DWW) application which is located at: https://www9.state.nj.us/DEP_WaterWatch_public/index.jsp.
2. It is extremely important that you maintain contact with the water system regarding any potential water system facility/sampling point changes. The water system must notify both the NJDEP-BSDW and the laboratory responsible for collecting the necessary drinking water compliance samples of all changes to the Water System Facilities. Water System Facilities can change as treatment is added or removed from a well or as wells with no treatment are manifolded and unmanifolded (i.e. Common Headers are activated and inactivated). As a Water System Facility changes for a water system, it is in the best interest of the water system to notify the NJDEP-BSDW of this change, so that the necessary changes to the Safe Drinking Water Information System (SDWIS-State) can be made, including the updating of the water system’s inventory and sample schedule(s). It is also recommended that the water system inform the laboratory responsible for collecting the necessary drinking water compliance samples of these changes and in particular changes to the water systems sample schedule. Failure to collect the drinking water compliance sample(s) from the proper water system facility will result in Monitoring and Reporting Violations for the water system.
3. To avoid non-submittal violations for any Water System facility that is not used at all during the monitoring period (i.e. quarter or year) that monitoring was required, a paper report form (i.e. Nitrate, Inorganic and/or Volatile Organic Report) must be submitted which clearly marks “Plant Not in Service during the Monitoring Period”. The form shall contain the monitoring period for which the plant was not in service. Alternatively, you can send an e-mail to the water supply mailbox (Watersupply@dep.nj.gov). In the body of the e-mail, please specify the water system facility and monitoring period(s) in which it was not active.
4. IT IS EXTREMELY IMPORTANT THAT YOU DO NOT SUBMIT ANY PAPER REPORTING FORMS TO NJDEP FOR ANY OF THE SAMPLES THAT HAVE AN E2 AND SDWIS ACCEPTED STATUS.
5. Do not submit any special characters (i.e. #, &, -, @, *) as part any sample result values. The E2 system has problems processing result values that include special characters.
6. Please note that the Analysis Method Code fields in both the General Chemistry and Coliform Excel templates are now mandatory. You must enter the analysis method in the spreadsheet when uploading data. The method code must be entered exactly as it is listed under the Reference Data section in E2 (including any dashes, periods, slashes, etc.) or it will be rejected by the system. The Reference Data section is located on the main page of the E2 system under the Laboratory module.
7. Flagged Sample Results: As a reminder, the E2 system has additional validation checks regarding the flagging of certain sample result values. These new validation checks will compare sample result values of certain parameters with their respective regulatory Minimum Reporting Levels (MRL) or their regulatory Detection Limits (DL). If the sample results for a parameter in this list below are reported with a less than sign and are higher than the values in the last column (“Any value greater than those listed below will be flagged”) of the below-listed chart they will have a flagged status under the View Lab Samples tab in E2. Samples with a flagged status must be corrected and resubmitted. As a result, any lab that receives a flagged status for a sample must submit an E2 Deletion Request form to have the sample rejected in E2 and deleted from SDWIS.

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8. The requirement to report results in E2 to the regulatory reporting level, whether a detection limit or minimum reporting level, will be extended to regulated Inorganic Organic Compounds (IOCs), Synthetic Organic Compounds (SOCs), lead, copper, and radiologicals as illustrated in the tables beginning on the next page.
9. When reporting radionuclide results, please remember that it is required that the radiological result count error be included with the reported activity.
10. Since compliance for nitrate and nitrite is not evaluated using a running annual average, the requirement for meeting the technique/method-based detection limits included in the April 24, 2013, E2 Quick Reference Guide has been rescinded. The detection limit for nitrite will be 0.10 mg/L and that for nitrate will be 1.0 mg/L regardless of the methods used.
11. As a reminder to all labs please check your sample dates before uploading your submission to the E2 system. We have received several submissions with sample years of “1900”. This causes major problems for the E2/SDWIS system when a submission with this date is being processed and validated.
12. Notice To All Labs: When entering individual analytical results on the E2 spreadsheet templates or your LIMS system, please check to ensure you do not enter the same parameter with the same Sample ID Number in the same submission. This situation will cause problems regarding the processing of the analytical data through E2/SDWIS.
13. For all repeat, triggered, and confirmation samples, please make sure that the Lab Sample ID assigned to them is in all capital letters. Lab Sample IDs with lower case letters are automatically being converted to upper case letters by SDWIS when the data is migrated into that system. This is causing errors when the system is trying to link original Lab Sample IDs with confirmation samples or repeat samples.
14. A water system may be required to conduct additional monitoring as a condition of a Permit or Temporary Treatment Approval (TTA) issued by the Bureau of Water System Engineering (BWSE). Only compliance samples with an approved schedule in SDWIS should be submitted using E2-DWR. All other monitoring specifically required by the Permit or TTA must be submitted by email to WaterSupply@dep.nj.gov. on form BWSE-PA-101 as shown below.
15. The SDWA establishes one-time testing requirements for newly constructed non-public and public non-community water systems to ensure that the quality of the source water is evaluated prior to use. The existing testing requirements in the Safe Drinking Water Act (SDWA) rules are the same as those under the existing Private Well Testing Act (PWTa) rules. Therefore, the DEP has adopted corresponding amendments to require expanded testing for gross alpha and arsenic, new testing for uranium in the north and testing for 1,2,3-TCP, EDB and DBCP to ensure the testing requirements in the two sets of rules are aligned.

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BWSE-PA-101 Form

New Jersey Department of Environmental Protection																
Bureau of Water System Engineering																
Generic Water Sampling Analysis Spreadsheet for Permit/Temporary Treatment Approval Conditions																
Form #		BWSE-PA-101														
Last Updated		August 31, 2016														
Email this form to: WaterSupply@dep.nj.gov																
Permit or Temporary Approval Number*																
Certifier Name*																
Telephone Number*																
<small>NOTE: Begin entering samples in row 15 * - Indicates Required Field</small>																
Sample Information							Analysis Results									
Lab Sample Number*	PWS ID Number*	Water Facility State Code*	Sample Collection Date*	Sample Collection Time*	Street Address Location	Sample Comments	Parameter Name*	Analysis Start Date*	Analysis Performed By	Analysis Start Time*	Analysis Method Code*	Less Than Indicator	Result*	Result Unit Code*	Radiological Result Count Error	Result Com

16. There has been some confusion regarding the submission of the SDWA Detection Limit (DL) for gross alpha. The federal regulations at 40 CFR 141.25c state that: “For the purpose of monitoring radioactivity concentrations in drinking water, the required sensitivity of the radioanalysis is defined in terms of a detection limit. The detection limit shall be that concentration which can be counted with a precision of plus or minus 100 percent at the 95 percent confidence level (1.96σ where σ is the standard deviation of the net counting rate of the sample).

The formula used to determine the DL is as follows:

This definition of the detection limit (DL) in the current version of 40 CFR 141.26 translates into the following equation:

$$DL = \frac{1.96^2}{2t_s} \times \frac{1 + \sqrt{1 + \frac{4t_s^2}{1.96^2} \times R_B \times \left(\frac{1}{t_s} + \frac{1}{t_B}\right)}}{2.22 \times V \times \epsilon}$$

Where:

- t_s = time of the measurement used to accumulate the sample count, minutes
- t_B = time of the measurement used to accumulate the background count, minutes
- R_B = mean background count rate, cpm
- V = sample volume used, L
- ϵ = efficiency and the self absorption correction

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The calculated DL must be entered in the “Detection Limit” field of the E2 General Chemistry Spreadsheet for each gross alpha result submitted with E2.

For calculated DLs that are greater than 3 pCi/L, the dissolved solids in units of mg/L will be required. The dissolved solids value is to be entered in the “Result Comments” field.

If the DL exceeds 3 pCi/L and the dissolved solids are reported, the system may be allowed to use an EPA approved co-precipitation method to analyze the sample. The water system (or lab on behalf of the water system) may contact the BSDW Lab/Technical Support Unit to obtain this permission. If, based on prior analyses a laboratory knows that a water system’s drinking water typically contains a high amount of dissolved solids, then prior to running the sample using ECLS-R-GA Rev 8, they may contact the BSDW Lab/Technical Unit to request analysis using a co-precipitation method. This allowance is granted on a case by case basis.*

The Sample Collection Date & Time, Analysis Start Date & Time, Analysis Completion Date & Time is mandatory for gross alpha samples. The start time is the time at which the sample counting is initiated. If the sample requires a second count, the date and start time of the second count is to be entered. If a second count is required, enter “second ct” in the Result Comments field.

This table summarizes the above information:

Additional Information Needed	E2 General Chemistry Field	How to submit
Calculated Detection Limit	Detection Limit	Enter value in pCi/L
Dissolved solids (if DL is greater than 3 pCi/L)	Result Comments	Enter value in mg/L
Indicate if second count was necessary	Result Comments	Enter “second ct”

If data for gross alpha is submitted without the above information, the BSDW Lab/Technical Unit may request the laboratory reports and raw data for the sample submitted.

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17. Points to remember when submitting Lead/Copper sampling points:

- ***The lab must enter the address exactly as it is listed on the BWSE-18 form***
- Do not use any leading characters
 - *Do not add the PBCU#: "10 Main St" ≠ "PBCU41 – 10 Main St"*
 - *Do not add a sample number: "15 Main St" ≠ "#21 – 15 Main St"*
 - *Do not add a tap location: "11 Maple Ave." ≠ "Kitchen – 11 Maple"*
- Do not repeat the facilities address or change the abbreviations
 - *"Back Sink" ≠ "11 Main St – Back sink"*
 - *"East Wing Girls BR" ≠ "EW Girls Bath"*
 - *"14 North Ave" ≠ "14 N Avenue"*

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18.) E2 Reporting Requirements for 1,2,3-TCP, EDB and DBCP:

Contaminant	Regulated by:	MCL	Analytical Methods as of 3/14/19	Reporting Level is the “regulatory DL”	Low calibration standard no higher than ...	E2 Reporting	
						If the detected result is between the DL and the MRL or Low calibration standard:	If the detected result is above the MRL or low calibration standard:
1,2,3-Trichloropropane (123TCP)	NJDEP ¹	0.030 µg/L ²	EPA 504.1 ³ EPA 524.3 ³ EPA 551.1 ³	0.010 µg/L ⁴	0.021 µg/L ⁵	Enter the value of the detected result in “Result” field ⁶ and qualify with “J” in “Result Comments” field ⁷	Enter result value in “Result” field ⁶
1,2-Dibromoethane or Ethylene Dibromide (EDB)	USEPA ⁸	0.05 µg/L ⁹	EPA 504.1 ¹⁰ EPA 524.3 ¹⁰ EPA 551.1 ¹⁰	0.01 µg/L ¹¹	0.035 µg/L ⁵	Enter the value of the detected result in “Result” field ⁶ and qualify with “J” in “Result Comments” field ⁷	Enter result value in “Result” field ⁶
1,2-Dibromo-3-chloropropane (DBCP)	USEPA ⁸	0.2 µg/L ⁹³	EPA 504.1 ¹⁰ EPA 524.3 ¹⁰ EPA 551.1 ¹⁰	0.02 µg/L ¹¹	0.050 µg/L ¹²	Enter value of the detected result in “Result” field ⁶ and qualify with “J” in “Result Comments” field ⁷	Enter result value in “Result” field ⁶

¹Adopted September 4, 2018, see N.J.A.C. 7:10 5-2 (a)5

²N.J.A.C. 7:10 5-2(a)(6) ii

³Acceptable methods are those EPA-approved methods used for analyzing EDB and DBCP in addition to 123TCP which can achieve an MDL of 10 ng/L for 123TCP as required in N.J.A.C. 7:10-5.2(a)6.ii.2.

⁴N.J.A.C. 7:10 5-2 (a)(6)(ii)2

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⁵For SOCs, the reliably and consistently below the MCL value is determined as 70% of the MCL and must be a quantifiable value.

[40CFR141.24(h)(7)(iii)]

⁶Enter the appropriate units in the “Result Unit Code” field.

⁷This indicates an estimated value.

⁸Federal Register Vol 56 No. 20, January 30, 1991

⁹40CFR141.61(c)

¹⁰40CFR141.24(e)(1) and Appendix A to Subpart C

¹¹National Primary Drinking Water Regulations, 40CFR141.24(h)(18)

¹²This recommended RL of 0.050 µg/L for DBCP was derived from the median DLs of drinking water DBCP data multiplied by 5.

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19. E2 Reporting Requirements for PFNA (Perfluorononanoic Acid) – [Analyte Code 2804]

PFAS Analyte	Regulated by:	MCL	Analytical Methods as of 4/11/19	Reporting data to the “regulatory DL”	“regulatory MRL “
Perfluorononanoic Acid (PFNA)	NJDEP	0.013 µg/L	EPA 537 EPA 537.1	0.002 µg/L	0.005 µg/L

PFAS	Reporting for:	If result is....	Enter in Result field	Enter in Result Comment Field*	Example for Result Comments Field	Sample Comment Field*
PFNA	laboratory with DL < 2 ng/L	A detection that is between the laboratory’s DL and 2 ng/L	<2 ng/L	the detected value and “K” (optional)	1.6 ng/L K	
		A non-detect based on the laboratory’s DL	< 2 ng/L	“<” and the laboratory’s DL (optional)	< 1.5 ng/L	
		A quantifiable concentration between the laboratory’s DL and 2 ng/L	<2 ng/L	the PFNA concentration (optional)	1.7 ng/L	
		A detection between 2 ng/L and the laboratory’s MRL	detected value	J (required)	J	
PFNA	laboratory with an MRL of < 2 ng/L	A detection between the laboratory DL and the MRL	<2 ng/L	the detected value and “J” (optional)	1.4 ng/L J	
		A result between the MRL and 2 ng/L	<2 ng/L	the concentration (optional)	1.5 ng/L	

*Note whether the comment is optional or required

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If the PFNA result is equal to or greater than the regulatory MRL (or a lower MRL being used by a laboratory), the field reagent blank (FRB) must be analyzed. If the FRB has a detection of PFNA (≥ 2 ng/) the laboratory must contact the Lab/Tech Support Unit of the Bureau of Safe Drinking Water.

PFAS	Reporting for:	If result is....	Enter in Result field	Enter in Result Comment Field*	Example for Result Comments Field	Sample Comment Field*
PFNA	laboratory using MRL \leq 5 ng/L	A PFNA concentration greater than the MRL with PFNA detected in corresponding FRB	Enter PFNA concentration	This PFAS detected in FRB (required)		
		A PFNA concentration greater than the MRL but where FRB was not analyzed	PFNA concentration			“FRB not analyzed” (required)
		A PFNA concentration greater than the MRL but FRB was not provided	Enter PFNA concentration			Enter “FRB not provided” (required)
PFAS other than PFNA	laboratory MRLs for the PFAS that are analyzed and reported by that laboratory	A PFAS concentration greater than the MRL for that PFAS where that PFAS is also detected in the corresponding FRB	PFAS concentration	This PFAS detected in FRB (required)		
		A PFAS result greater than the MRL for that PFAS but the FRB was not analyzed	Enter PFNA concentration			“FRB not analyzed” (required)
		A PFNA result greater than the MRL but where the FRB was not provided with the POE samples	Enter PFNA concentration			Enter, “FRB not provided” (required)

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Ground Water Rule Example Chart

Sample Type	Facility Code	Sampling Point	Analyte code	Sample No.	Sample Code	Excel Spreadsheet Template Used	Original Lab Sample # Field Populated?	Include the E. coli (3014) sample result with the total coliform (3100) result?
Routine Positive	DS	DS	3100/3014	1234	Routine	Coliform	No	Yes, if 3100 positive, no if negative
Repeat Samples	DS	DS	3100/3014	1234RPT	Repeat	Coliform	Yes, with original routine positive sample	Yes, if 3100 positive, no if negative
Initial Triggered Source Water Sample	WL001001	WL001001	3100/3014	1234GWR	Triggered (TG)	Coliform	Yes, with original routine positive sample	Yes, if 3100 positive, no if negative
Confirmation Samples	WL001001	WL001001	3100/3014	1234-2GWR	Confirmation (CO)	Coliform	Yes, with the triggered Total coliform sample.	Yes, if 3100 positive, no if negative
Assessment Monitoring	WL001001	WL001001	3100/3014	1234-3AMGWR	Routine	Coliform	No	Yes, if 3100 positive, no if negative

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<u>DBPs</u>	<u>Analyte Code</u>	<u>Any value greater than those listed below will be flagged</u>
<u>Haloacetic Acids</u>		
Monochloroacetic acid	2450	0.0020 mg/L
Dichloroacetic acid	2451	0.0010 mg/L
Trichloroacetic acid	2452	0.0010 mg/L
Bromoacetic acid	2453	0.0010 mg/L
Dibromoacetic acid	2454	0.0010 mg/L
<u>Trihalomethanes</u>		
	<u>Analyte Code</u>	<u>Any value greater than those listed below will be flagged</u>
Chloroform	2941	0.0010 mg/L
Bromoform	2942	0.0010 mg/L
Dichlorobromomethane	2943	0.0010 mg/L
Chlorodibromomethane	2944	0.0010 mg/L
	<u>Analyte Code</u>	<u>Any value greater than those listed below will be flagged</u>
Chlorite	1009	0.020 mg/L
Bromate	1011	0.0050 mg/L
<u>Volatile Organic Compounds</u>		
	<u>Analyte Code</u>	<u>Any value greater than those listed below will be flagged</u>
Benzene	2990	0.00054 mg/L
Carbon Tetrachloride	2982	0.00054 mg/L
1,2-Dichlorobenzene	2968	0.00054 mg/L

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<u>Volatile Organic Compounds</u> <u>(cont.)</u>	<u>Analyte</u> <u>Code</u>	<u>Any value greater than those listed</u> <u>below will be flagged</u>
1,3-Dichlorobenzene	2967	0.00054 mg/L
1,4-Dichlorobenzene	2969	0.00054 mg/L
1,1-Dichloroethane	2978	0.00054 mg/L
1,2-Dichloroethane	2980	0.00054 mg/L
1,1-Dichloroethene	2977	0.00054 mg/L
cis-1,2-Dichloroethene	2380	0.00054 mg/L
trans-1,2-Dichloroethene	2979	0.00054 mg/L
1,2-Dichloropropane	2983	0.00054 mg/L
Ethylbenzene	2992	0.00054 mg/L
Methyl tertiary Butyl Ether	2251	0.00054 mg/L
Methylene Chloride	2964	0.00054 mg/L
Monochlorobenzene	2989	0.00054 mg/L
Naphthalene	2248	0.00054 mg/L
Styrene	2996	0.00054 mg/L
1,1,2,2-Tetrachloroethane	2988	0.00054 mg/L
Tetrachloroethene	2987	0.00054 mg/L
Toluene	2991	0.00054 mg/L
1,2,4-Trichlorobenzene	2378	0.00054 mg/L
1,1,1-Trichloroethane	2981	0.00054 mg/L
1,1,2-Trichloroethane	2985	0.00054 mg/L
Trichloroethene	2984	0.00054 mg/L
Vinyl Chloride	2976	0.00054 mg/L
Xylenes [total]	2955	0.00054 mg/L

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<u>Lead & Copper</u>	<u>Analyte Code</u>	<u>Any Value greater than those listed below will be flagged</u>
Lead	1030	0.0054 mg/L
Copper	1022	0.0504 mg/L
<u>Radionuclides</u>	<u>Analyte Code</u>	<u>Any Value greater than those listed below will be flagged</u>
Gross alpha (excluding radon)	4002	3.4 pCi/L
Radium 226	4020	1.4 pCi/L
Radium 228	4030	1.4 pCi/L
Uranium	4006	1.4 ug/L or 0.0014 mg/L
<u>Regulated Per-and Polyfluoroalkyl Substances (PFAS)</u>	<u>Analyte Code</u>	<u>Any Value greater than those listed below will be flagged</u>
Perfluorononanoic acid (PFNA)	2804	0.002 ug/L (or 2 ng/L) Note - For the purposes of the NJ State Drinking Water Regulations, a detection of PFNA is defined as equal to or greater than 2 ng/L. If the lowest calibration standard is higher than 0.002 ug/L (or 2 ng/L), then an “J” must be included in the result comment field when submitting the data using E2.
<u>SOCs</u>	<u>Analyte Code</u>	<u>Any Value greater than those listed below will be flagged</u>
Alachlor	2051	0.00024 mg/L
Atrazine	2050	0.00014 mg/L
Benzo[a]pyrene	2306	0.000024 mg/L
Carbofuran	2046	0.00094 mg/L

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SOCs	Analyte Code	Any Value greater than those listed below will be flagged
Chlordane	2959	0.00024 mg/L
Dalapon	2031	0.0014 mg/L
Di[2-ethylhexyl]adipate	2035	0.00064 mg/L
Di[2-ethylhexyl]phthalate	2039	0.00064 mg/L
Dibromochloropropane	2931	0.00002 mg/L
Dinoseb	2041	0.00024 mg/L
Diquat	2032	0.00044 mg/L
Endothall	2033	0.0094 mg/L
Endrin	2005	0.000110 mg/L
Ethylene Dibromide	2946	0.00001 mg/L
Glyphosate	2034	0.0064 mg/L
Heptachlor	2065	0.000044 mg/L
Heptachlor Epoxide	2067	0.000110 mg/L
Hexachlorobenzene	2274	0.00014 mg/L
Hexachlorocyclopentadiene	2042	0.00014 mg/L
Lindane (BHC-Gamma)	2010	0.000044 mg/L
Methoxychlor	2015	0.00014 mg/L
Oxamyl	2036	0.0024 mg/L
PCBs	2383	0.00014 mg/L
Pentachlorophenol	2326	0.000044 mg/L
Picloram	2040	0.00014 mg/L
Simazine	2037	0.000074 mg/L
Toxaphene	2020	0.0014 mg/L
Dioxin	2063	0.0000000054 mg/L

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SOCs	Analyte Code	<u>Any Value greater than those listed below will be flagged</u>
1,2,3 – Trichloropropane	2414	0.00001 mg/L
2,4-D	2105	0.000220 mg/L
2,4,5-TP	2110	0.00024 mg/L

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Detection Limits for Primary Inorganics Based on the Analytical Method Used

The required detection limits (DL) for primary inorganics are listed in a table in 40CFR 141.23, “Detection Limits for Inorganic Contaminants.” For each inorganic, the DL is dependent on the analytical technique. The Bureau of Safe Drinking Water has developed a table that includes the analytical method(s) that correspond to each analytical technique allowed in the analysis of a particular primary inorganic. This table is a reference for determination of the highest allowed DL that can be reported for a non-detected primary inorganic. Non-detects reported at values higher than those in the list may be flagged by E2 with the following message: “FLAGGED SAMPLE RESULT: Non-microbial Sample Result has a Lab Reporting Level supplied that exceeds the analyte’s SDW regulatory reporting limit. (SAMPLE RESULT).”

<u>Inorganic</u>		<u>MCL</u>	<u>Method</u>	<u>Method</u>	<u>Method</u>	<u>Method</u>
		(µg/L)				
Antimony (1074)		6	EPA 200.8	EPA 200.9	ASTM D 3697	SM 3113B
	<i>Technique</i>		<i>ICP-MS</i>	<i>AA-Platform</i>	<i>Hydride AA</i>	<i>AA-Furnace</i>
	DL (ug/L)		0.4	0.8	1	3
Arsenic (1005)					SM 3113B	ASTM D 2972 (B)
		5	EPA 200.8	EPA 200.9	ASTM D 2972 (C)	SM 3114B
	<i>Technique</i>		<i>ICP-MS</i>	<i>AA-Platform</i>	<i>AA-Furnace</i>	<i>Hydride AA</i>
	DL (ug/L)		1.4	0.5	1	1
Barium (1010)		2000	SM 3120B			
			EPA 200.7	EPA 200.8	SM 3111D	SM 3113B
	<i>Technique</i>		<i>ICP</i>	<i>ICP-MS</i>	<i>AA-Direct</i>	<i>AA-Furnace</i>
	DL (ug/L)		2	2	100	2

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<u>Inorganic</u>		<u>MCL</u> (<u>µg/L</u>)	<u>Method</u>	<u>Method</u>	<u>Method</u>	<u>Method</u>
Beryllium (1075)		4	EPA 200.7			SM 3113B
			SM 3120B	EPA 200.8	EPA 200.9	ASTM D 3645 (B)
	<i>Technique</i>		<i>ICP</i>	<i>ICP-MS</i>	<i>AA-Platform</i>	<i>AA-Furnace</i>
	DL (ug/L)		0.3	0.3	0.02	0.2
Cadmium (1015)		5	SM 3120B			
			EPA 200.7	EPA 200.8	EPA 200.9	SM 3113B
	<i>Technique</i>		<i>ICP</i>	<i>ICP-MS</i>	<i>AA-Platform</i>	<i>AA-Furnace</i>
	DL (ug/L)		1	0.5	0.05	0.1
Chromium (1020)		100	SM 3120B			
			EPA 200.7	EPA 200.8	EPA 200.9	SM 3113B
	<i>Technique</i>		<i>ICP</i>	<i>ICP-MS</i>	<i>AA-Platform</i>	<i>AA-Furnace</i>
	DL (ug/L)		7	0.9	0.1	1
Cyanide (1024)		200			SM 4500-CN C, G	SM 4500-CN C, E
			EPA 335.4	SM 4500-CN C, F	ASTM D 2036 (B)	ASTM D 2036 (A)
	<i>Technique</i>		<i>Spect, Distill Semi auto</i>	<i>Distill, Selective Electrode</i>	<i>Spect, Distil, Amenable</i>	<i>Spect, Distil, Manual</i>
	DL (ug/L)		5	50	20	20
		(<u>ug/L</u>)				
Mercury (1035)		2	SM 3112B			
			ASTM D 3223			
			EPA 245.1	EPA 245.2	EPA 200.8	

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	<i>Technique</i>		<i>Manual Cold Vapor</i>	<i>Automated Cold Vapor</i>	<i>ICP-MS</i>	
	DL (ug/L)		0.2	0.2	0.2	
<u>Inorganic</u>		<u>MCL</u>	<u>Method</u>	<u>Method</u>	<u>Method</u>	<u>Method</u>
Nickel (1036)		NA	EPA 200.7	EPA 200.8	SM 3113B	EPA 200.9
	<i>Technique</i>		<i>ICP</i>	<i>ICP-MS</i>	<i>AA-Furnace</i>	<i>AA-Platform</i>
	DL (ug/L)		5	0.5	1	0.6
Nitrate (1040)		10,000	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	DL (ug/L)	1000				
Nitrite (1041)		1000	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	DL (ug/L)	100				
Selenium (1045)		50			SM 3114B	SM 3113B
			EPA 200.8	EPA 200.9	ASTM D 3859 (A)	ASTM D 3859 (B)
	<i>Technique</i>		<i>ICP-MS</i>	<i>AA-Platform</i>	<i>Hydride AA</i>	<i>AA-Furnace</i>
	DL (ug/L)		8	2	2	2
Thallium (1085)		2	EPA 200.8	EPA 200.9	SM 3113B	
	<i>Technique</i>		<i>ICP-MS</i>	<i>AA-Platform</i>	<i>AA-Furnace</i>	
	DL (ug/L)		0.3	0.7	1	