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The Minnesota Department of Health (MDH) maintains an environmental monitoring program for radioactivity around the two nuclear power generating plants in the state. The program is designed to provide an independent evaluation of the impact of the nuclear power generating plants to the environment and the public over a period of time. Data collected is used to verify compliance with appropriate standards, provide the public with reliable data regarding the environmental impact of the nuclear power generating plants, and establish trends. Annual reports are generated and available for public review. Sample data not included in the annual reports is available through the MDH Public Health Lab.

Monitoring for radioactivity began in Minnesota in response to nuclear weapons testing. A baseline for certain radionuclides has been established and current environmental monitoring continues to validate the natural background levels in Minnesota. Throughout the years, the Minnesota Department of Health environmental monitoring program has transformed. Careful analysis of potential risks and data collected has lead MDH to make alterations in its sampling program from time to time. Some collection points and sample mediums have been discontinued while others added.

The major components of the Minnesota Department of Health environmental monitoring program are sample collection, data analysis, and interpretation. Around the Monticello Nuclear generating plant and the Prairie Island Nuclear generating plant samples that are collected include: air, surface water, and milk. Ambient gamma radiation doses are monitored through the use of thermoluminescent dosimeters. Well water samples are collected near the Prairie Island plant only.

Besides those samplings, from 1995 to June of 2015 MDH received data from two pressurized ion chambers (PIC) located at the Prairie Island Nuclear generating plant near the Independent Spent Fuel Storage Installation (ISFSI). Data from the PICs was transmitted to a computer. Every fifteen minutes a modem would relay the data, via phone line, to an MDH computer. The system also conveyed alarm messages to MDH staff members if the radiation levels were significantly high or communication between the PIC and the computer was disrupted.

In the fall of 2008 Monticello began storing spent fuel in its own ISFSI on site. This ISFSI is monitored using an automatic switching, two Geiger-Mueller-tube based dose rate monitor called the Data Radiation Monitor (DRM). The DRM continuously measures gamma radiation dose rates. Readings are taken approximately every four seconds and transmitted via radio waves to a base computer. MDH connects to the base computer and receives dose rate readings. Alarm messages are sent if communication is disrupted or radiation levels are exceeded.

In June of 2015, the two ion chambers located at the Prairie Island Generating Plant ISFSI were replaced with two DRMs. The system is modeled after the Monticello ISFSI monitors.

**Program Summary**

In 2018, no sample results within the current environmental monitoring program areas were found to exceed any federal or state standards or guidelines.
Air Monitoring

Continuous air monitoring allows the Minnesota Department of Health to determine the level
of radioactive contamination that could expose the public through inhalation. Air sampler
particulate filters and cartridges are collected weekly or every other week and analyzed for
radioactive particulates in the air.

In 2018 air samples were collected from three locations in Minnesota; one at each of the
nuclear power generating plants and one in downtown St. Paul. The air samplers at the nuclear
power generating plants are located downwind of the plant based on predominant wind
directions.

The location of the Prairie Island air sampler is near Lock and Dam No. 3, downstream from the
Prairie Island Nuclear Generating Plant. The air sampler at Monticello is located near the
Monticello Xcel Training Center, downstream from the Monticello Nuclear Power Generating
Plant.

The St. Paul air sampler is located on the roof of the Freeman Building at 625 Robert Street
North in St. Paul and is used as a standard for comparison.

Air sampler locations are shown in Table 2A Monticello Sampling Sites and Table 2B Prairie
Island Sampling Sites.

Air sample results for gross alpha, gross beta, and naturally occurring Beryllium-7 and
Potassium-40 are shown in Table 4 Air Sampling Results for Monticello Nuclear Generating
Plant, Table 5 Air Sampling Results for Prairie Island Nuclear Generating Plant, and Table 6 Air
Sampling Results for St. Paul.

**Data Analysis:** Data collected from the Prairie Island and Monticello air samplers are
compared to data from the St. Paul sampler, historical data, U.S. Environmental
Protection Agency (EPA) standards, and MDH Radioactive Material Rules, Chapter
4731.2750. Specific isotopes of interest are examined using the limits indicated in MDH
Chapter 4731 designating concentrations such that a dose limit of 50 mrems per year is
not exceeded for each isotope.

The majority of data for these radioisotopes are below MDH Public Health Lab’s (PHL)
detection levels. In instances where the detection levels exceeded the Chapter 4731
concentrations or established standards, review of the gross alpha and gross beta values
were considered. It is understood that the gross alpha or gross beta values represent
the maximum value any individual alpha or beta emitter could indicate. Gross alpha
levels were below 0.00389 pCi/m3 at all locations. Gross beta levels were below 0.0373
pCi/m3 at all locations.

Whenever applicable, naturally occurring Potassium-40 and Beryllium-7 are tracked as a
means of quality control for accuracy of lab data. It is expected that these levels will
remain somewhat constant throughout time.

All air sample results for 2018 were within the EPA and MDH standards and guidelines.
Surface Water Monitoring

Since surface water is the drinking water source for many cities in the state, MDH samples the river water downstream from both power plants. The results are compared to the EPA Safe Drinking Water Standards and MDH Chapter 4731.2750 for compliance. They are also measured against the historical data for changes that may have occurred due to releases from the power plant.

Water sample locations are shown in Table 2A Monticello Sampling Sites and Table 2B Prairie Island Sampling Sites.

Water sample results for gross alpha, gross beta, and select radionuclides of interest are shown in Table 7 Surface Water Results for Monticello Nuclear Generating Plant, and Table 8 Surface Water Results for Prairie Island Nuclear Generating Plant.

Data Analysis: The EPA Safe Drinking Water Act (SDWA) is often the most restrictive limit for these samples. The radiological component of the SDWA limits gross alpha particles to 15 pCi/L (including combined Radium 226 and Radium 228 at 5 pCi/L), tritium to 20,000 pCi/L, and beta/photon emitters to doses equivalent to 4 mrem per year. Gross alpha values for 2018 were below 4.2 pCi/L at both locations. Tritium values were below 250 pCi/L at both locations.

The SWDA limits the total body or critical organ dose from a single beta/photon emitter to 4 mrems. Concentrations for 168 beta/photon emitters that will deliver a total body or critical organ dose of 4 mrems are compared to the isotopic analysis in the MDH samples. The majority of data for these radioisotopes falls below MDH Public Health Lab’s (PHL) detection levels. In instances where the detection levels exceed the SDWA levels, review of the gross beta values were considered, since the gross beta value represents the maximum value any individual beta emitter could be.

All surface water sample results for 2018 were within the EPA and MDH standards and guidelines.

Milk Monitoring

Milk samples are collected monthly from a farm located near each power plant. Radiation contamination that may have been deposited in the fields and consumed by cows would be concentrated and forwarded to the milk. Since there are no standards for milk, except for emergency situations, sample analysis is compared to the EPA Safe Drinking Water Standards and MDH Chapter 4731.2750. Samples are also compared to historical data and reviewed for trends.

Milk sampling locations are shown in Table 2A for the Monticello Sampling Site and Table 2B for the Prairie Island Sampling Site. Milk sample results for select radionuclides of interest are shown in Table 9 Milk Analysis Results for Monticello Nuclear power generating plant and Table 10 Milk Analysis Results for Prairie Island Nuclear power generating plant.
Data Analysis: MDH recognizes that the EPA Safe Drinking Water Act (SDWA) is often a more restrictive limit for these samples because there are no specific standards for milk samples. However, by meeting these standards MDH continues to ensure that public health and safety is maintained. Due to the physical properties of milk, analyzing for gross alpha and gross beta values is difficult and highly unreliable; therefore these results are not available.

The SWDA limits the total body or critical organ dose from a single beta/photon emitter to 4 mrems. Concentrations for 168 beta/photon emitters that will deliver a total body or critical organ dose of 4 mrems are compared to the isotopic analysis in the MDH samples. Again, the majority of data for these radioisotopes are below MDH Public Health Lab’s (PHL) detection levels. In instances where the detection levels exceed the SDWA levels, review of past air sample results were considered. It should be noted that if a release were to occur, before it would be observed in milk samples it would most likely be detected in air samples.

All milk sample results for 2018 were within the EPA and MDH standards and guidelines.

Ambient Gamma Radiation Monitoring

Ambient gamma radiation levels are measured around the power plants by using thermoluminescent dosimeters (TLDs). MDH has placed TLDs beyond the plant’s boundaries to estimate the dose received by a member of the public if they were to be at that location continuously throughout the monitoring period. TLDs are changed and analyzed quarterly. In 2006, MDH transferred the analysis of the dosimeters from an internal evaluation to Mirion Technologies (formerly Global Dosimetry), a processor approved by the National Voluntary Laboratory Accreditation Program. These results are compared to control readings, historical data, and MDH regulatory limits.

TLD locations are shown in Table 3A Monticello Area TLD Locations and Table 3B Prairie Island Area TLD Locations.

TLD results are shown in Table 11 TLD Results.

Data Analysis: Mirion Technologies results from the field TLDs are compared to the control readings. Control badges are kept in St. Paul for the monitoring period so that control readings indicate background radiation levels.

All TLD results for 2018 were within MDH regulatory limits to members of the public.
Well Water and Community Water Monitoring

Well water is periodically reviewed since radioactivity may seep through the soil and enter the water table. The collection point was selected to be a private farm located close to the Prairie Island nuclear power plant. Community Water samples are collected at Prairie Island as part of the EPA RADNET system. MDH also collects a sample to represent the community water supply at Prairie Island. These samples are collected quarterly and again compared to the EPA Safe Drinking Water Standards, MDH Chapter 4731.2750, and historical data.

Well water sample location is shown in Table 2B Prairie Island Sampling Sites. Community water samples are collected from the Dakota Station at Prairie Island. Well water sample results for gross alpha, gross beta, and select radionuclides of interest are shown in Table 12 Well Water Analysis Results. Community Water sample results are shown in Table 13 Community Water Analysis Results.

Data Analysis: Well water and community water data is analyzed similar to surface water. The EPA Safe Drinking Water Act (SDWA) is often the most restrictive limit for these samples. The radiological component of the SDWA limits gross alpha particles to 15 pCi/L (including combined Radium 226 and Radium 228 at 5 pCi/L), tritium to 20,000 pCi/L, and beta/photon emitters to doses equivalent to 4 mrem per year. Gross alpha values for 2018 at or below 6.6 pCi/L and Tritium values were below 259 pCi/L.

The SWDA limits the total body or critical organ dose from a single beta/photon emitter to 4 mrems. Concentrations for 168 beta/photon emitters that will deliver a total body or critical organ dose of 4 mrems are compared to the isotopic analysis in the MDH samples. In instances where the detection levels exceed the SDWA levels, review of the gross beta values were considered, since the gross beta value represents the maximum value any individual beta emitter could be.

All well water and community water sample results for 2018 were within the EPA and MDH standards and guidelines.

Precipitation Monitoring

As part of the EPA RADNET program, MDH also collects precipitation samples at the air sampling location in St. Paul. These samples are collected when enough precipitation is in the collection bucket to fill an analysis container. Samples are split, one going to EPA RADNET and one to MDH PHL. Data collected is compared to the EPA Safe Drinking Water Standards, MDH Chapter 4731.2750 and historical data.

Precipitation sample results for gross alpha, gross beta, and select radionuclides of interest are shown in Table 14 Precipitation Water Results for St. Paul. Data Analysis: Precipitation data is analyzed similar to surface water. The EPA Safe Drinking Water Act (SDWA) is often the most restrictive limit for these samples. The radiological component of the SDWA limits gross alpha
particles to 15 pCi/L (including combined Radium 226 and Radium 228 at 5 pCi/L), tritium to 20,000 pCi/L, and beta/photon emitters to doses equivalent to 4 mrem per year. Gross alpha values for 2018 were below 12.0 pCi/L and Tritium values were below 250 pCi/L.

The SWDA limits the total body or critical organ dose from a single beta/photon emitter to 4 mrems. Concentrations for 168 beta/photon emitters that will deliver a total body or critical organ dose of 4 mrems are compared to the isotopic analysis in the MDH samples. In instances where the detection levels exceed the SDWA levels, review of the gross beta values were considered, since the gross beta value represents the maximum value any individual beta emitter could be.

All precipitation sample results for 2018 were within the EPA and MDH standards and guidelines.

Program Modifications

There were no significant program modifications in 2018.

Table

Table 1: Sample Summary for 2018

<table>
<thead>
<tr>
<th>Sample Type</th>
<th>Collection and Frequency</th>
<th>Number of Samples Collected</th>
<th>Analyses Performed</th>
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</thead>
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<td>G, M</td>
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<td>GI, Sr, I</td>
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<td>Direct exposure</td>
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<tr>
<td>Precipitation</td>
<td>C</td>
<td>19</td>
<td>GA, GB, GI, Sr, H</td>
</tr>
</tbody>
</table>

Collection type: C = continuous; G = grab
Frequency: W = weekly; M = monthly; Q = quarterly; A = annually; BW = bi-weekly
Analyses performed: GA = gross alpha; GB = gross beta; GI = gamma isotopic; Sr = strontium;
Table 2A: Monticello Environmental Sampling Sites

Source: MN Dept. of Health, February 2000
Table 2B: Prairie Island Environmental Sampling Sites
Table 3A: Monticello Area TLD Locations
Table 3B: Prairie Island Area TLD Locations

![Map of Prairie Island Area TLD Locations]

Table 4: 2018 Air Sampling Results for Monticello Nuclear Generating Plant

Results and Detection Limits in pCi/m3

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<tr>
<th>Date Collected</th>
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<th>Gross Beta</th>
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<th>K-40</th>
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<td>Date Collected</td>
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<td>Gross Beta</td>
<td>Be-7</td>
<td>K-40</td>
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**Table 5: 2018 Air Sampling Result for Prairie Island Nuclear Generating Plant**

*Results and Detection Limits in pCi/m3*

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<tr>
<th>Date Collected</th>
<th>Gross Alpha</th>
<th>Gross Beta</th>
<th>Be-7</th>
<th>K-40</th>
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**Table 6: 2018 Air Sampling Results for St. Paul**

Results and Detection Limits in pCi/m³

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<th>Gross Beta</th>
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<th>K-40</th>
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<td>0.0141</td>
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<td>0.0303</td>
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**Table 7: 2018 Surface Water Results for Monticello Nuclear Generating Plant**

Results and Detection Limits in pCi/L

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<th>Date Collected</th>
<th>Gross Alpha</th>
<th>Gross Beta</th>
<th>Tritium</th>
<th>Sr-89(^1)</th>
<th>Sr-90(^1)</th>
<th>K-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/03/18</td>
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<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40</td>
</tr>
<tr>
<td>04/11/18</td>
<td>&lt;3.0</td>
<td>&lt;4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40</td>
</tr>
<tr>
<td>07/02/18</td>
<td>&lt;3.0</td>
<td>&lt;4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40</td>
</tr>
<tr>
<td>10/08/18</td>
<td>&lt;3.0</td>
<td>&lt;4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40</td>
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\(^1\)Sr-89 and Sr-90 were below the required detection limit of 2 pCi/L (§ 141.25)
### Table 8: 2018 Surface Water Results for Prairie Island Nuclear Generating Plant

Results and Detection Limits in pCi/L

<table>
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<tr>
<th>Date Collected</th>
<th>Gross Alpha</th>
<th>Gross Beta</th>
<th>Tritium</th>
<th>Sr-89&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Sr-90&lt;sup&gt;1&lt;/sup&gt;</th>
<th>K-40</th>
</tr>
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<td>01/09/18</td>
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<td>&lt;2.0</td>
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<sup>1</sup>Sr-89 and Sr-90 were below the required detection limit of 2 pCi/L (§ 141.25)

### Table 9: 2018 Milk Analysis Results for Monticello Nuclear Generating Plant

Results and Detection Limits in pCi/L

<table>
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<th>Date Collected</th>
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<th>Sr-90&lt;sup&gt;1&lt;/sup&gt;</th>
<th>K-40</th>
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Table 10: 2018 Milk Analysis Results for Prairie Island Nuclear Generating Plant
Results and Detection Limits in pCi/L

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¹Sr-89 and Sr-90 were below the required detection limit of 2 pCi/L (§ 141.25)

Table 11: 2018 Minnesota Department of Health TLD Results
Results in mrem

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<th>2nd Qtr</th>
<th>3rd Qtr</th>
<th>4th Qtr</th>
<th>Average</th>
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<td>Average</td>
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**Prairie Island**

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<td>Control</td>
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<tr>
<td>Control</td>
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<tr>
<td>Sturgeon Lake Rd</td>
<td>1</td>
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<td>*</td>
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<td>Location</td>
<td>Number on Table 3</td>
<td>1st Qtr</td>
<td>2nd Qtr</td>
<td>3rd Qtr</td>
<td>4th Qtr</td>
<td>Average</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>Lock &amp; Dam 3</td>
<td>2</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Suter Farm</td>
<td>3</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>ISFSI Wakonade</td>
<td>4</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Tower</td>
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<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Gustafson Farm</td>
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<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Red Wing</td>
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<td>*</td>
<td>12</td>
<td>*</td>
<td>3.00</td>
</tr>
<tr>
<td>Training Center</td>
<td>8</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

*Dosimeter reading is a below minimum threshold in which an actual reading can be measured with statistical accuracy.

**Table 12: 2018 Well Water Analysis Results—City of Redwing**
Results and Detection Limits in pCi/L

<table>
<thead>
<tr>
<th>Date Collected</th>
<th>Gross Alpha</th>
<th>Gross Beta</th>
<th>Tritium</th>
<th>K-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>02/06/18</td>
<td>&lt;3.0</td>
<td>&lt;4.0</td>
<td>&lt;259</td>
<td>&lt;40</td>
</tr>
<tr>
<td>05/01/18</td>
<td>&lt;3.0</td>
<td>&lt;4.0</td>
<td>&lt;250</td>
<td>&lt;40</td>
</tr>
<tr>
<td>08/07/18</td>
<td>&lt;3.0</td>
<td>&lt;4.0</td>
<td>&lt;250</td>
<td>&lt;40</td>
</tr>
<tr>
<td>11/14/18</td>
<td>&lt;3.0</td>
<td>&lt;4.0</td>
<td>&lt;250</td>
<td>&lt;40</td>
</tr>
</tbody>
</table>

**Table 13: 2018 Community Water Analysis Results—City of Redwing**
Results and Detection Limits in pCi/L
<table>
<thead>
<tr>
<th>Date Collected</th>
<th>Gross Alpha</th>
<th>Gross Beta</th>
<th>Tritium</th>
<th>Sr-89¹</th>
<th>Sr-90¹</th>
<th>K-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>02/27/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>04/04/18</td>
<td>12</td>
<td>12</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>04/17/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>06/04/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>06/19/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>06/26/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>07/02/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>07/10/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>07/16/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>08/07/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
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<tr>
<td>08/28/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
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<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>09/04/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
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<tr>
<td>09/05/18</td>
<td>&lt;3.0</td>
<td>&lt; 4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
</tbody>
</table>

**Table 14: 2018 Precipitation Water Results for St. Paul**

Results and Detection Limits in pCi/L
<table>
<thead>
<tr>
<th>Date Collected</th>
<th>Gross Alpha</th>
<th>Gross Beta</th>
<th>Tritium</th>
<th>Sr-89(^1)</th>
<th>Sr-90(^1)</th>
<th>K-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/18/18</td>
<td>&lt;3.0</td>
<td>6.5</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>09/21/18</td>
<td>&lt;3.0</td>
<td>&lt;4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>10/03/18</td>
<td>&lt;3.0</td>
<td>8.4</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>10/08/18</td>
<td>&lt;3.0</td>
<td>&lt;4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>10/16/18</td>
<td>&lt;3.0</td>
<td>&lt;4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>11/06/18</td>
<td>&lt;3.0</td>
<td>&lt;4.0</td>
<td>&lt;250</td>
<td>&lt;2.0</td>
<td>&lt;2.0</td>
<td>&lt;40.0</td>
</tr>
</tbody>
</table>

\(^1\)Sr-89 and Sr-90 were below the required detection limit of 2 pCi/L (§ 141.25)