Division of Air Quality

Annual Monitoring Network Plan 2020
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**Introduction**

Each year, the Air Monitoring Section of the Utah Division of Air Quality (DAQ) produces a Monitoring Network Plan. The purpose of the document is to apprise the stakeholders (public, private, government) and other entities of the current state and the upcoming changes to the State’s Air Quality Monitoring Network. DAQ continually seeks input from the aforementioned parties on improvements to the current level of service or to provide additional accommodations where requested and needed. The Annual Monitoring Network Plan reflects the necessary network changes DAQ implements to enhance the quality, coverage, reliability, and cost efficiency of the division’s monitoring efforts.

In 2019-2020, the Air Quality Monitoring Network underwent the following changes:

- The global pandemic has had a minor impact to the operations of the Utah Air Monitoring Network. The network has remained up and running and staff continue to operate all equipment, monitors and samplers. However, as a result of the ensuing budget challenges we expect there may be disruptions to the network, the resources to operate the network and the ability to procure required equipment and parts.
- The newly constructed Technical Support Center was opened on May 21, 2019, and houses the Air Monitoring Center (AMC). Sampling at the AMC began shortly thereafter. Daily PM$_{2.5}$ and PM$_{10}$, continuous PM$_{2.5}$, nitrous oxide, and ozone monitoring began in August 2019, sulfur dioxide in September 2019, and carbon monoxide in November 2019. As with all new buildings there are a few technical issues that are being addressed that are impacting sampling at this new location and may impact data capture over this first year of operations.
- The Magna station was shut down on December 31, 2019, due to Rio Tinto Kennecott shutting down their last coal-fired power plant. This removed the need for a monitor in that location.
- Precision and span checkpoints on all gaseous monitors were changed to reflect the CFR Appendix A, 3.1.1.

**Statement of Compliance**

According to the requirement of 40 CFR 58, Subpart B, all stations and monitors deployed within Utah’s air quality monitoring network meet the requirements of appendices A, C, D, and E of the aforementioned subpart. As of 2018, Utah’s Air Quality Monitoring Network has no active Prevention of Serious Deterioration (PSD) air monitoring program stations; appendix B does not apply to any stations or monitors in Utah because this appendix pertains to PSD air monitoring stations.

**Primary Monitor Designation**

A primary monitor is defined as the one:

> “identified by the monitoring organization that provides concentration data used for comparison to the NAAQS. For any specific site, only one monitor for each pollutant can be designated in AQS as primary monitor for a given period of time. The primary monitor identifies the default data source for creating a combined site record for purposes of NAAQS comparisons.” (40 CFR 58.1)
Each year, DAQ carefully chooses and designates suitable primary monitors for each monitoring station and each pollutant according to data completeness and integrity. The primary monitors are designated prior to data certification in Q1 of the following year during the regular QC process. A table listing primary monitors for 2019 follows.
Network Changes

Utah’s Air Quality Monitoring Network will undergo several changes during 2020. Two new stations are planned to be installed in conjunction with the inland port: Monticello Academy and the Prison site. All meteorological instrumentation will be upgraded. The Brigham City station was removed.

- **Brigham City Station Removed**
  Equipment was turned off at the Brigham City site on June 25, 2019, and the station was removed on June 28, 2019. This station is being relocated because the school at which the station was housed needed the land to develop a carpool lane.

- **Inland Port Site Installation at Monticello Academy**
  A new site was installed at Monticello Academy (2782 S Corporate Park Drive, West Valley City, UT, 84120) on March 7, 2020. As of the time of the publication of this document, power has not yet been supplied and therefore no instruments have been installed. It is our plan to have this station sampling by Q3 of 2020. A proposed list of instrumentation at this site includes meteorological variables, fine particulate matter (PM$_{2.5}$), ozone (O$_3$), oxides of nitrogen (NO$_x$), and black carbon (BC).

- **Inland Port Site Installation at new State Prison**
  A new site will be installed at the new State Prison located north of I-80 on the southern border of the Great Salt Lake in Salt Lake County. It is our plan to have this station operational before Q1 of 2021. A proposed list of instrumentation at this site includes meteorological variables, fine particulate matter (PM$_{2.5}$), ozone (O$_3$), oxides of nitrogen (NO$_x$), and black carbon (BC).

- **Meteorological Instrumentation Upgrade**
  All meteorological instrumentation will be upgraded using a suite by Campbell Scientific. These new kits will include 2D sonic wind sensors (RM Young Ultrasonic 86004), temperature and relative humidity probes (Campbell Scientific HMP60), and pyranometers (Campbell Scientific CS301) to measure incoming solar radiation. A test kit was installed at the AMC on April 24, 2020, and the others will be installed as the instruments arrive.

Pending Items

- **Relocation of Rose Park Station to New AMC**
  The monitors at the Rose Park station (about 1 mile away) will eventually be moved to the new AMC location. The station has been outfitted for monitors on the roof, and there are rooms within the building for continuous particulate and gaseous monitors.

- **Relocation of Spanish Fork Site**
  Due to construction at the Spanish Fork (SF) airport site, DAQ has found a new location for the SF site at the same airport. The site has been approved by the EPA and the Federal Aviation
Administration, but we are waiting for the City of Spanish Fork to approve the plan. The site will be moved as soon as approval is received.

- **Second Near Road Site**
  A second Near road site is required in the SLC MSA. Sites are being considered and evaluated for this in consultation with EPA. The timing on the site is still uncertain and will depend on a number of factors including budget and resources.

- **Relocation of Brigham City and Ogden Sites**
  DAQ is currently searching for suitable sites to house replacement Ogden and Brigham City stations.
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Federal equivalent method (FEM) PM$_{2.5}$ monitor data was not used prior to January 1, 2015, as it did not meet quality assurance requirements. As of January 1, 2015, FEM PM$_{2.5}$ monitoring was used for data substitution and co-locations as required in 49 CFR Part 50 Appendix N and 40 CFR Part 58 Appendix A 3.2

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<th>Address:</th>
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<table>
<thead>
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<tbody>
<tr>
<td>Salt Lake City</td>
<td>Salt Lake</td>
</tr>
</tbody>
</table>

### Site Objective:
This site is established to replace the Rose Park (RP) site as an area of further investigation of PM$_{2.5}$ Salt Lake County.

### Does the site meet the objective?
Yes, all objectives are met.

### Site Description:
This site is located at the Air Monitoring Center, in the city of Salt Lake, Salt Lake County.

### Can data from this site be used to evaluate NAAQS?
Yes

### Gaseous/Particulate Parameters:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Sampling &amp; Analysis Method</th>
<th>Operating Schedule</th>
<th>Monitoring Objective</th>
<th>Spatial Scale</th>
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<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - High Neighborhood</td>
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<td>Ozone</td>
<td>Instrumental Ultraviolet</td>
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<td>Population Exposure</td>
<td>SLAMS - High Neighborhood</td>
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<td>Carbon Monoxide</td>
<td>Instrumental Gas Phase Correlation</td>
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<td>Sulfur Dioxide</td>
<td>Pulsed Fluorescence</td>
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<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
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<td>PM$_{2.5}$</td>
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<td>Daily</td>
<td>Population Exposure</td>
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<td>PM$_{10}$</td>
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### Detailed Site Information

#### Meteorological Parameters:

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<th>Parameter</th>
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<th>Operating Schedule</th>
<th>Tower Height</th>
<th>Spatial Scale</th>
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<td>Ambient Pressure</td>
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<tr>
<td>Relative Humidity</td>
<td>Electronic Thin Film</td>
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<td>Ambient Temperature</td>
<td>Electronic Resistance</td>
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<td>WD Sigma</td>
<td>Electronic EPA Method</td>
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<tr>
<td>Wind Speed</td>
<td>Sonic 2D</td>
<td>Continuous</td>
<td>10 meters</td>
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Site: Antelope Island (AI)  Longitude: -112.2313  Station Type: SPM
AQS#: 49-011-6001  Latitude: 41.0393  MSA: Ogden-Clearfield
Address: Antelope Island  Elevation (m): 1359
City: N/A
County: Davis

Site Objective:
This site is established to collect meteorological information for air quality modeling inputs.

Does the site meet the objective?
Yes, all objectives are met.

Site Description:
This site is located at Antelope Island State Park, near the ranger residences, in Davis County.

Can data from this site be used to evaluate NAAQS? No

<table>
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<th>Operating Schedule</th>
<th>Tower Height</th>
<th>Spatial Scale</th>
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<tr>
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<td>Ambient Temperature</td>
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</table>
Site Objective:
The Bountiful Viewmont site is established to determine public exposure to air pollution. The site also monitors emissions from nearby oil refineries and local sand and gravel operations. Previous monitoring and saturation studies have recorded high ozone concentrations. This site is chosen for intensive speciation of PM$_{2.5}$ under the EPA Chemical Speciation Network (CSN) and gaseous volatile organic compounds under the EPA National Air Toxics Trends Station (NATTS) Network including hexavalent chromium and carbonyl compounds. Nitrogen dioxide is monitored in support of the ozone monitoring.

Does the site meet the objective?
Yes, all objectives are met.

Site Description:
This site is located near Viewmont High School at the north end of the city of Bountiful, Davis County.

Can data from this site be used to evaluate NAAQS? Yes

<table>
<thead>
<tr>
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<th>Spatial Scale</th>
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</table>
**Site Objective:**
This site is established to assess population exposure in southeast Salt Lake County.

**Does the site meet the objective?**
Yes, all objectives are met.

**Site Description:**
This site is located in a neighborhood area of Midvale in Salt Lake County.

**Can data from this site be used to evaluate NAAQS?** Yes

### Gaseous/Particulate Parameters:

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<th>Monitoring Objective</th>
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<td>Wind Speed</td>
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<td>Barometric Pressure Transducer</td>
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Site: Enoch (EN)  
Longitude: -113.05525  
Station Type: SLAMS  
AQS#: 490210005  
Latitude: 37.74743  
MSA: Not in MSA  
Address: 3840 North 325 East  
Elevation (m): 1692  
City: Enoch  
County: Iron

Site Objective:
This site is established to contain SPM equipment to assess population exposure in Iron County prior to full-scale monitoring.

Does the site meet the objective?
Yes, all objectives are met.

Site Description:
This site is located in a county area near Enoch.

Can data from this site be used to evaluate NAAQS? Yes

### Gaseous/Particulate Parameters:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Sampling &amp; Analysis Method</th>
<th>Operating Schedule</th>
<th>Monitoring Objective</th>
<th>Spatial Scale</th>
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<td>Instrumental Chemiluminescence</td>
<td>Continuous</td>
<td>SPM</td>
<td>N/A</td>
</tr>
<tr>
<td>Ozone</td>
<td>Instrumental Ultraviolet</td>
<td>Continuous</td>
<td>SPM</td>
<td>N/A</td>
</tr>
<tr>
<td>PM$_{2.5}$ Real Time</td>
<td>Synchronized Hybrid Ambient Real Time Particulate Monitor</td>
<td>Continuous</td>
<td>SPM</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Meteorological Parameters:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Analysis Method</th>
<th>Operating Schedule</th>
<th>Tower Height</th>
<th>Spatial Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient Temperature</td>
<td>Electronic Resistance</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Wind Direction</td>
<td>Electronic Resistance Level 1</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>WD Sigma</td>
<td>Electronic EPA Method</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Wind Speed</td>
<td>Electronic Chopped Signal Level 1</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
</tbody>
</table>
Site Objective:
This site is established to determine population exposure to air pollutants.

Does the site meet the objective?
Yes, all objectives are met.

Site Description:
This site is located in the city of Erda, Tooele County. It is the main monitor for Tooele county.

Can data from this site be used to evaluate NAAQS? Yes

Gaseous/Particulate Parameters:

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<thead>
<tr>
<th>Parameter</th>
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<th>Operating Schedule</th>
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</thead>
<tbody>
<tr>
<td>Ozone</td>
<td>Instrumental Ultraviolet</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>Trace Nitrogen Dioxide</td>
<td>Instrumental Chemiluminescence</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - High Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>Manual Gravimetric</td>
<td>Daily</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$ Real Time</td>
<td>Synchronized Hybrid Ambient Real Time Particulate Monitor</td>
<td>Continuous</td>
<td>Air Quality Index</td>
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Meteorological Parameters:

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</tr>
</thead>
<tbody>
<tr>
<td>Relative Humidity</td>
<td>Electronic Thin Film</td>
<td>Continuous</td>
<td>3 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>Electronic Resistance</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Wind Direction</td>
<td>Electronic Resistance Level 1</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>WD Sigma</td>
<td>Electronic EPA Method</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Wind Speed</td>
<td>Electronic Chopped Signal Level 1</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
</tbody>
</table>
Site Objective:
This site is established to measure ozone near Escalante National Monument.

Does the site meet the objective?
Yes, all objectives are met.

Site Description:
This site is located at the Escalante National Monument visitor’s center in Escalante, Garfield County. This site is funded by the Bureau of Land Management.

Can data from this site be used to evaluate NAAQS? Yes

<table>
<thead>
<tr>
<th>Parameter</th>
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<th>Operating Schedule</th>
<th>Monitoring Objective</th>
<th>Spatial Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ozone</td>
<td>Instrumental Ultraviolet</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>Regional</td>
</tr>
</tbody>
</table>
Site Objective:
This site is established in response to an ozone saturation study indicating this as a potentially high ozone concentration area.

Does the site meet the objective?
Yes, all objectives are met.

Site Description:
This site is located on the grounds of Majestic Elementary School in the city of Harrisville, Weber County.

Can data from this site be used to evaluate NAAQS? Yes

<table>
<thead>
<tr>
<th>Parameter</th>
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<th>Operating Schedule</th>
<th>Monitoring Objective</th>
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<td>Gaseous/Particulate Parameters:</td>
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<tr>
<td>Trace Nitrogen Dioxide</td>
<td>Instrumental Chemiluminescence</td>
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<td>WD Sigma</td>
<td>Electronic EPA Method</td>
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<td>10 meters</td>
<td>Urban</td>
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<td>Wind Speed</td>
<td>Electronic Chopped Signal</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
</tbody>
</table>
Site Objective:
This site is established to represent population exposure in the Salt Lake City area. This site is also designated as the EPA NCORE site for Utah.

Does the site meet objective?
Yes, all current objectives are met. NCORE monitoring began in January 2011.

Site Description:
This site is located at Hawthorne Elementary School in the southeast section of Salt Lake City, Salt Lake County.

Can data from this site be used to evaluate NAAQS? Yes

<table>
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<tr>
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<tbody>
<tr>
<td>Trace Carbon Monoxide</td>
<td>Instrumental Gas Phase Correlation</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - High Neighborhood</td>
</tr>
<tr>
<td>Trace Nitrogen Dioxide</td>
<td>Instrumental Chemiluminescence</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - High Neighborhood</td>
</tr>
<tr>
<td>Trace Nitrogen Dioxide</td>
<td>Instrumental Photolysis</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - High Neighborhood</td>
</tr>
<tr>
<td>Ozone</td>
<td>Instrumental Ultraviolet</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - High Neighborhood</td>
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<td>Trace NOy</td>
<td>Instrumental Chemiluminescence</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
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<td>Trace Sulfur Dioxide</td>
<td>Pulsed Fluorescence</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>Manual Gravimetric</td>
<td>Daily</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$ Speciation</td>
<td>Manual EPA CSN</td>
<td>1 in 3 days</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$ Real Time NCORE</td>
<td>Synchronized Ambient Real Time Particulate Monitor</td>
<td>Continuous</td>
<td>Air Pollution Index</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>Manual Gravimetric</td>
<td>Daily</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{coarse}$</td>
<td>Manual Gravimetric Subtraction</td>
<td>Daily</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
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<tr>
<td>Organic &amp; Elemental Carbon</td>
<td>NIDR</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PAMS C2 to C12</td>
<td>Instrumental Gas Chromatography</td>
<td>Continuous</td>
<td>Ozone Modeling Input</td>
<td>Population Neighborhood</td>
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<td>Visibility</td>
<td>Instrumented</td>
<td>Continuous</td>
<td>Public Information</td>
<td>Population Neighborhood</td>
</tr>
<tr>
<td>Parameter</td>
<td>Sampling &amp; Analysis Method</td>
<td>Operating Schedule</td>
<td>Tower Height</td>
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</tr>
<tr>
<td>Ambient Pressure</td>
<td>Barometric Pressure Transducer</td>
<td>Continuous</td>
<td>3 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>Electronic Thin Film</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Solar Radiation</td>
<td>Electronic EPPLY</td>
<td>Continuous</td>
<td>4 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>Electronic Resistance</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Wind Direction</td>
<td>Electronic Resistance Level 1</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>WD Sigma</td>
<td>Electronic EPA Method</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Wind Speed</td>
<td>Electronic Chopped Signal Level 1</td>
<td>Continuous</td>
<td>10 meters</td>
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</tr>
<tr>
<td>Mix Layer Height</td>
<td>Atmospheric Lidar</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>(MXLH)</td>
<td></td>
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</tr>
</tbody>
</table>
**Site Objective:**
This site is established to assess population exposure in southwest Salt Lake County.

**Does the site meet objective?**
Yes, all objectives are met.

**Site Description:**
This site is located at Fort Herriman Middle School in southwest Salt Lake County.

**Can data from this site be used to evaluate NAAQS?** Yes

### Gaseous/Particulate Parameters:

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<td>Ozone</td>
<td>Instrumental Ultraviolet</td>
<td>Continuous</td>
<td>Population Exposure</td>
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</tr>
<tr>
<td>Trace Nitrogen Dioxide</td>
<td>Instrumental Chemiluminescence</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$ Real Time</td>
<td>Synchronized Ambient Real Time Particulate Monitor</td>
<td>Continuous</td>
<td>Air Quality Index</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>Manual Gravimetric</td>
<td>Daily</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{10}$ Real Time</td>
<td>Synchronized Ambient Real Time Particulate Monitor</td>
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<tr>
<td>Ambient Temperature</td>
<td>Instrumental/Electronic Resistance</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Wind Direction</td>
<td>Electronic Resistance Level 1</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Wind Speed</td>
<td>Instrumental/Electronic Chopped Signal</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Barometric Pressure</td>
<td>Pressure Transducer</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>Instrumental/Electronic Thin Film</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
</tbody>
</table>
Site: Hurricane (HC)  
Longitude: -113.3051  
Station Type: SLAMS

AQS#: 49-053-0007  
Latitude: 37.1791  
MSA: St. George

Address: 147 North 870 West  
Elevation (m): 992  

City: Hurricane  
County: Washington

Site Objective:  
This site is established to determine population exposure to ozone in Washington County.

Does the site meet objective?  
Yes, all objectives are met.

Site Description:  
This site is located behind the Hurricane City offices.

Can data from this site be used to evaluate NAAQS?  
Yes

### Gaseous/Particulate Parameters:

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<tbody>
<tr>
<td>Ozone</td>
<td>Instrumental Ultraviolet</td>
<td>Continuous</td>
<td>High Winter Ozone Study</td>
<td>Regional</td>
</tr>
<tr>
<td>Trace Nitrogen Dioxide</td>
<td>Instrumental Chemiluminescence</td>
<td>Continuous</td>
<td>High Winter Ozone Study</td>
<td>Regional</td>
</tr>
<tr>
<td>PM$_{2.5}$ Real Time</td>
<td>Synchronized Hybrid Ambient Real Time Particulate Monitor</td>
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<td>10 meters</td>
<td>Regional</td>
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<tr>
<td>Wind Direction</td>
<td>Electronic Resistance Level 1</td>
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<td>10 meters</td>
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</tr>
<tr>
<td>WD Sigma</td>
<td>Electronic EPA Method</td>
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<td>10 meters</td>
<td>Regional</td>
</tr>
<tr>
<td>Wind Speed</td>
<td>Electronic Chopped Signal Level</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Regional</td>
</tr>
<tr>
<td>Barometric Pressure</td>
<td>Pressure Transducer</td>
<td>Continuous</td>
<td>2 meters</td>
<td>Regional</td>
</tr>
</tbody>
</table>
Site: Lindon (LN)  Longitude: -111.7133  Station Type: SLAMS
AQS#: 49-049-4001  Latitude: 40.3396  MSA: Provo - Orem
Address: 50 North Main  Elevation (m): 1442
City: Lindon
County: Utah

Site Objective:
This site is established to determine PM emissions from commercial and industrial sources. Historically, this site has reported the highest PM values in Utah County.

Does the site meet objective?
Yes, all objectives are met.

Site Description:
This site is located at the Lindon Elementary School in the City of Lindon, Utah County.

Can data from this site be used to evaluate NAAQS? Yes

<table>
<thead>
<tr>
<th>Parameter</th>
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<tr>
<td>PM$_{2.5}$</td>
<td>Manual Gravimetric</td>
<td>Daily</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>Manual Gravimetric Collocated</td>
<td>1 in 6 days</td>
<td>Precision and Accuracy Assessment</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$ Speciation</td>
<td>Manual EPA CSN</td>
<td>1 in 6 days</td>
<td>Population Exposure</td>
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<td>Synchronized Hybrid Ambient Real Time Particulate Monitor</td>
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<tr>
<td>PM$_{10}$</td>
<td>Manual Gravimetric</td>
<td>Daily</td>
<td>Population Exposure</td>
<td>SLAMS - Impact Neighborhood</td>
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<tr>
<td>Carbon Monoxide</td>
<td>Instrumental Gas Phase Correlation</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
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<td>Trace Nitrogen Dioxide</td>
<td>Instrumental Chemiluminescence</td>
<td>Continuous</td>
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<td>Ozone</td>
<td>Instrumental Ultraviolet</td>
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<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
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<tr>
<td>Black Carbon</td>
<td>Aethalometer</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
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<td>Electronic Thin Film</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
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<td>Electronic Chopped Signal Level 1</td>
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<td>Urban</td>
</tr>
<tr>
<td>Mix Layer Height (MXLH)</td>
<td>Atmospheric Lidar</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
</tbody>
</table>
Site: Monticello Academy (MO)  Longitude: -112.008576  Station Type: SLAMS
AQS#: 49-035-1007  Latitude: 40.709791  MSA: Salt Lake City
Address: 2782 S Corporate Park Dr.  Elevation (m): 1295
City: West Valley City
County: Salt Lake

Site Objective:
This site is established to determine potential impact of the Inland Port on the Salt Lake Valley Airshed.

Does the site meet objective?
Yes, all objectives are met.

Site Description:
This site is located near the parking lot of Monticello Academy in the City of West Valley City, Salt Lake County.

Can data from this site be used to evaluate NAAQS? Yes

Gaseous/Particulate Parameters:

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<tr>
<td>Sulfur Dioxide</td>
<td>Pulsed Fluorescence</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>Ozone</td>
<td>Instrumental Ultraviolet</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>Instrumental Chemiluminescence</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - High Neighborhood</td>
</tr>
</tbody>
</table>

Meteorological Parameters:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Sampling &amp; Analysis Method</th>
<th>Operating Schedule</th>
<th>Tower Height</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Ambient Temperature</td>
<td>Electronic Resistance</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Wind Direction</td>
<td>Electronic Resistance Level 1</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>WD Sigma</td>
<td>Electronic EPA Method</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Wind Speed</td>
<td>Electronic Chopped Signal</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
</tbody>
</table>
Site: Near Road (NR)
AQS#: 49-035-4002
Address: 4951 South Galleria Dr
City: Murray
County: Salt Lake
Longitude: -111.9011881
Latitude: 40.662878
Elevation (m): 1295
Station Type: SLAMS
MSA: Salt Lake City

Site Objective:
This site is established to monitor vehicular contribution to air pollution.

Does the site meet objective?
Yes, all objectives are met.

Site Description:
This site is located on I-15 as it crosses 5000 S in Murray, UT.

Can data from this site be used to evaluate NAAQS?: Yes

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Sampling &amp; Analysis Method</th>
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<th>Monitoring Objective</th>
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<tr>
<td>Trace Nitrogen Dioxide</td>
<td>Instrumental Chemiluminescence</td>
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<td>Population Exposure</td>
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<td>Carbon Monoxide</td>
<td>Instrumental Gas Phase Correlation</td>
<td>Continuous</td>
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<tr>
<td>PM$_{2.5}$ Real Time</td>
<td>Synchronized Hybrid Ambient Real Time Particulate Monitor</td>
<td>Continuous</td>
<td>Population Exposure</td>
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<td>Sulfur Dioxide</td>
<td>Pulsed Fluorescence</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
</tbody>
</table>

Gaseous/Particulate Parameters:
Site Objective:
This site is established in response to a three state ozone study. It is funded by the Bureau of Land Management.

Does the site meet objective?
Yes, all objectives are met.

Site Description:
This site is located in a farm field 3.6 Km east of Price.

Can data from this site be used to evaluate NAAQS? Yes

Gaseous/Particulate Parameters:

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<tr>
<th>Parameter</th>
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<tr>
<td>Ozone</td>
<td>Instrumental Ultraviolet</td>
<td>Continuous</td>
<td>High Ozone Winter Study</td>
<td>Regional</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>Instrumental Chemiluminescence</td>
<td>Continuous</td>
<td>High Ozone Winter Study</td>
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<td>Regional</td>
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<tr>
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<td>10 meters</td>
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<td>WD Sigma</td>
<td>Electronic EPA Method</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Regional</td>
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<tr>
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<td>Continuous</td>
<td>10 meters</td>
<td>Regional</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>Electronic Thin Film</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Regional</td>
</tr>
</tbody>
</table>
Site: Roosevelt (RS)  
Longitude: -110.009  
Station Type: SPM  
AQS#: 49-013-0002  
Latitude: 40.2941  
MSA: N/A  
Address: 290 South 1000 West  
Elevation (m): 1588  
City: Roosevelt  
County: Duchesne

Site Objective:
This site is established to determine maximum ozone and PM$_{2.5}$ concentrations in Duchesne County.

Does the site meet objective?
Yes, all objectives are met.

Site Description:
This site is located in the city park northwest section of Roosevelt.

Can data from this site be used to evaluate NAAQS? Yes

<table>
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<th>Parameter</th>
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<td>High Ozone Winter Study</td>
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<td>Continuous</td>
<td>High Ozone Winter Study</td>
<td>Regional</td>
</tr>
<tr>
<td>PM$_{2.5}$ Real Time</td>
<td>Synchronized Hybrid Ambient Real Time Particulate Monitor</td>
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<td>Continuous</td>
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<td>Urban</td>
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<td>Wind Direction</td>
<td>Sonic Method</td>
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<td>Urban</td>
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<td>Electronic EPA Method</td>
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<td>10 meters</td>
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</tr>
<tr>
<td>Ambient Temperature</td>
<td>Electronic Resistance</td>
<td>Continuous</td>
<td>2 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Temperature Difference</td>
<td>Math Channel</td>
<td>Continuous</td>
<td>10-2 meters</td>
<td>Urban</td>
</tr>
</tbody>
</table>
Site: Rose Park (RP)  
Longitude: -111.9309  
Station Type: SLAMS  
AQS#: 49-035-3010  
Latitude: 40.7955  
MSA: Salt Lake City  
Address: 1354 West Goodwin Avenue  
Elevation (m): 1295  
City: Salt Lake City  
County: Salt Lake

Site Objective:  
This site is established to better represent PM$_{2.5}$ exposure in this area of Salt Lake City.

Does the site meet objective?  
Yes, all objectives are met.

Site Description:  
This site is located in the community of Rose Park at the north end of Salt Lake City, Salt Lake County.

Can data from this site be used to evaluate NAAQS? Yes

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<td>High Winter Ozone Study</td>
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<tr>
<td>Trace Nitrogen Dioxide</td>
<td>Instrumental Ultraviolet</td>
<td>Continuous</td>
<td>High Winter Ozone Study</td>
<td>SLAMS - Population Neighborhood</td>
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<td>Sulfur Dioxide</td>
<td>Pulsed Fluorescence</td>
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<td>Instrumental Gas Phase Correlation</td>
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<td>PM$_{2.5}$</td>
<td>Manual Gravimetric</td>
<td>Daily</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$ Real Time</td>
<td>Manual Gravimetric Co-located</td>
<td>1 in 6 days</td>
<td>Precision and Accuracy Assessment</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$ Real Time</td>
<td>Synchronized Hybrid Ambient Real Time Particulate Monitor</td>
<td>Continuous</td>
<td>Air Quality Index</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>Parameter</td>
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<td>Tower Height</td>
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<tr>
<td>Ambient Temperature</td>
<td>Electronic Resistance</td>
<td>Continuous</td>
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<td>Urban</td>
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<td>Wind Direction</td>
<td>Electronic Resistance Level 1</td>
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<td>WD Sigma</td>
<td>Electronic EPA Method</td>
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<td>10 meters</td>
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<td>Wind Speed</td>
<td>Electronic Chopped Signal Level 1</td>
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<td>Urban</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>Electronic Thin Film</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
</tbody>
</table>
Site: Saltair (SA)  Longitude: -112.0498  Station Type: SPM
AQS#: 49-035-3005  Latitude: 40.8061  MSA: Salt Lake City
Address: 6640 West 1680 North  Elevation (m): 1282
City: Salt Lake City  County: Salt Lake

Site Objective:
This site is established to collect meteorological information for air quality models.

Does the site meet objective?
Yes, all objectives are met.

Site Description:
The site is located west of the Salt Lake Airport in Salt Lake County.

Can data from this site be used to evaluate NAAQS? No

<table>
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<th>Operating Schedule</th>
<th>Tower Height</th>
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</thead>
<tbody>
<tr>
<td>Relative Humidity</td>
<td>Electronic Thin Film</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
<tr>
<td>Solar Radiation</td>
<td>Electronic LiCor</td>
<td>Continuous</td>
<td>2 meters</td>
<td>Urban</td>
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<tr>
<td>Ambient Temperature</td>
<td>Electronic Resistance</td>
<td>Continuous</td>
<td>10 meters</td>
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</tr>
<tr>
<td>Wind Direction</td>
<td>Electronic Resistance Level 1</td>
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<td>Wind Speed</td>
<td>Electronic Chopped Signal Level 1</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
</tbody>
</table>
Site Objective:
This site is established to replace the Logan site and determine general population exposure.

Does the site meet objective?
Yes, all objectives are met.

Site Description:
This site is located at Birch Creek Elementary School in Cache County. It is approximately 7 miles north of Logan.

Can data from this site be used to evaluate NAAQS? Yes

<table>
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<tr>
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<tr>
<td>Trace Nitrogen Dioxide</td>
<td>Instrumental Chemiluminescence</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>Black Carbon</td>
<td>Aethalometer</td>
<td>Continuous</td>
<td>General/Background</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>Ozone</td>
<td>Instrumental Ultraviolet</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>Manual Gravimetric</td>
<td>Daily</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>Manual Gravimetric Co-located</td>
<td>1 in 6 days</td>
<td>Precision and Accuracy Assessment</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$ Real Time</td>
<td>Synchronized Hybrid Ambient Real Time Particulate Monitor, Collocated</td>
<td>Continuous</td>
<td>Air Quality Index</td>
<td>SLAMS - Population Neighborhood</td>
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<tr>
<td>Wind Speed</td>
<td>Electronic Chopped Signal Level 1</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
</tbody>
</table>
Site: Spanish Fork (SF)  
Longitude: -111.6603  
Station Type: SLAMS  
AQS#: 49-049-5010  
Latitude: 40.1364  
MSA: Provo - Orem  
Address: 312 West 2050 North  
Elevation (m): 1380  
City: Spanish Fork  
County: Utah

Site Objective:
This site is established to determine the boundary of the high ozone and PM$_{2.5}$ concentrations in Utah County.

Does the site meet objective?
Yes, all objectives are met.

Site Description:
This site is located at the Spanish Fork airport in the city of Spanish Fork, Utah County.

Can data from this site be used to evaluate NAAQS? Yes

Gas/Particulate Parameters:

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<td>Trace Nitrogen Dioxide</td>
<td>Instrumental Chemiluminescence</td>
<td>Continuous</td>
<td>Population Exposure</td>
<td>SLAMS - Population Neighborhood</td>
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<tr>
<td>PM$_{2.5}$</td>
<td>Manual Gravimetric</td>
<td>Daily</td>
<td>Population Exposure</td>
<td>SLAMS - Transport Regional</td>
</tr>
<tr>
<td>PM$_{2.5}$ Real Time</td>
<td>Continuous Gravimetric</td>
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<td>Air Quality Index</td>
<td>SLAMS - Transport Regional</td>
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<td>Electronic Chopped Signal</td>
<td>Continuous</td>
<td>10 meters</td>
<td>Urban</td>
</tr>
</tbody>
</table>
**Site Objective:**
This site is established was set up in response to an ozone study.

**Does the site meet objective?**
Yes, all objectives are met.

**Can data from this site be used to evaluate NAAQS?** Yes

### Gaseous/Particulate Parameters

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<td>Instrumental</td>
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<td>High Winter Ozone Study</td>
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<td>Dioxide</td>
<td>Chemiluminescence</td>
<td>Continuous</td>
<td>Air Quality Index</td>
<td>SLAMS - Population Neighborhood</td>
</tr>
<tr>
<td>PM$_{2.5}$ Real Time</td>
<td>Synchronized Hybrid Ambient</td>
<td>Continuous</td>
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<tr>
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<td>Regional</td>
</tr>
<tr>
<td>Barometric Pressure</td>
<td>Pressure Transducer</td>
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<td>Regional</td>
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