UTAH AIR QUALITY BOARD MEETING
TENTATIVE AGENDA

Wednesday, December 2, 2020 - 1:30 p.m.

It has been determined that this meeting will be held electronically without an anchor location. Interested persons can view electronically, via the Internet at meeting link: https://global.gotomeeting.com/join/180446165

Telephone access at: 1-646-749-3122
Meeting access code: 180-446-165

I. Call-to-Order

II. Date of the Next Air Quality Board Meetings: January 6, 2021, February 3, 2021

III. Approval of the Minutes for the November 4, 2020, Board Meeting.


V. Informational Items.
   A. Air Toxics. Presented by Leonard Wright.
   B. Compliance. Presented by Harold Burge and Rik Ombach.
   C. Monitoring. Presented by Bo Call.
   D. Other Items to be Brought Before the Board.
   E. Board Meeting Follow-up Items.

In compliance with the Americans with Disabilities Act, individuals with special needs (including auxiliary communicative aids and services) should contact Larene Wyss, Office of Human Resources at (801) 536-4281, TDD (801) 536-4284 or by email at lwyss@utah.gov.
Subject: Utah Air Quality Board Meeting Determination

I, Randal S. Martin, Chair of the Utah Air Quality Board, have determined that the December 2, 2020, meeting of the Utah Air Quality Board will be held electronically without an anchor location.

This determination is based on the following facts:

1. Utah is currently dealing with Covid-19, which has been characterized by the World Health Organization as a pandemic and for which the Governor has declared a state of emergency. See Executive Order 2020-51. Covid-19 is extremely contagious and can be deadly to those who contract it, especially those of advanced age and underlying health conditions.

2. The Agency offices are in Salt Lake County, which is currently in the State’s high level of transmission category. This limits the size of public gatherings to fewer than 10 people and requires the wearing of masks and social distancing. People are encouraged to stay in their homes.

3. A vast majority of Agency staff and the members of the Board are teleworking to avoid unnecessary contact with others.

4. The Board room is insufficient to allow social distancing and reasonably safe accommodation of the Board and the public.

5. The Board uses an electronic platform which allows interested parties to view the meeting, hear discussions, and provide written comment.

Dated this 19 day of Nov., 2020.

Randal S. Martin, Chair
Utah Air Quality Board
ITEM 3
I. Call-to-Order

Randy Martin called the meeting to order at 1:31 p.m.

Board members present: Randal Martin, John Rasband, Scott Baird, Michelle Bujdoso, Cassady Kristensen, Erin Mendenhall, Arnold Reitze

Excused: Kevin Cromar, William Stringer

Executive Secretary: Bryce Bird

Michelle Bujdoso was introduced as a new Board member representing the fuels industry. Ms. Bujdoso currently works at Marathon Petroleum.

The determination statement to hold an electronic meeting without an anchor location is read into record.

II. Date of the Next Air Quality Board Meeting: December 2, 2020

III. Approval of the Minutes for September 2, 2020, Board Meeting.

- John Rasband motioned to approve the minutes. Arnold Reitze seconded. The Board approved unanimously.


Liam Thrailkill, Rules Coordinator at DAQ, stated that House Bill 92 (H.B.92), Fire Amendments, was approved during the 2020 General Legislative Session. H.B.92 requires the director of DAQ to, under certain circumstances, approve prescribed burns that do not meet the clearing index requirements set
forth in R307-204, Emission Standards. After discussions with the Governor’s office, staff determined it is not necessary for R307-240 to incorporate state statute by reference because the Board is given authority to write rules to enforce the statute without incorporating the statute itself into the rules. Additionally, it is not necessary to include specific dates of statute into rules. Those changes are deemed nonsubstantive and are reflected in the rule language.

R307-240 is a statewide rule and is potentially subject to Senate Bill 6004 (S.B.6004) which limited rulemaking authority by the Air Quality Board to July 2021. On October 23, 2020, Director Bird presented R307-240 to the Administrative Rules Review Committee regarding its relation to S.B.6004. The Board proposed R307-240 for public comment at the August 5, 2020, meeting. Public comment was held from September 1, 2020, through October 1, 2020. During the public comment period, no comments were received and no public hearing was requested. Staff recommends the Board adopt R307-240 with the nonsubstantive changes as listed.

- Erin Mendenhall motioned to approve for final adoption new rule R307-240, Prescribed Burning. Cassady Kristensen seconded. The Board approved unanimously.

V. Informational Items.


Becky Close, Air Quality Policy Section Manager at DAQ, stated that the intent of R307-422 was to continue PM$_{2.5}$ offsetting during the maintenance period for direct PM$_{2.5}$ and all PM$_{2.5}$ precursors.

In DAQ’s analysis starting with the existing permitting rules, DAQ determined that all PM$_{2.5}$ precursors are currently offset at a more stringent ratio than R307-422. DAQ believes that PM$_{2.5}$ precursor emissions are adequately controlled at major point sources. However, there aren’t any offsetting rules that will apply for direct PM$_{2.5}$ during maintenance.

DAQ then looked at monitoring and inventory data for direct PM$_{2.5}$. The wintertime persistent cold air pool pollution (PCAP) events that are experienced along the Wasatch Front are largely driven by secondary formation of PM$_{2.5}$. When looking at primary PM$_{2.5}$ filter data during PCAP events and the winter day inventory, major point sources account for about 9% of the direct PM$_{2.5}$ during these PCAP events.

Permitting data shows that there are 17 point sources in the state that are major for direct PM$_{2.5}$ and their original approval orders were issued prior to 2007. There have only been two major modifications for PM$_{2.5}$ since 2007 that required offsetting. This indicates that it’s fairly uncommon for industry to request approval orders or major modifications for direct PM$_{2.5}$.

Photochemical modeling with PM$_{2.5}$ and all precursors at potential to emit (PTE) for major point sources showed results with an increase in total PM$_{2.5}$. A different model run with only direct PM$_{2.5}$ at PTE for major point sources showed an overall decrease in total PM$_{2.5}$. The chemistry portion of the model indicated that nitric acid is attracted to the additional primary particulate, resulting in a decrease in secondary nitrate that is larger than the increase in primary particulate. In other words, an increase in primary PM$_{2.5}$ caused a decrease in secondary PM$_{2.5}$. However, this represents a very particular scenario. The chemistry governing PM$_{2.5}$ formation is non-linear and PM$_{2.5}$ formation is dependent on the overall availability of primary PM$_{2.5}$ and precursors. The
decrease in total PM$_{2.5}$ concentration may not be observed at different emission levels of primary PM$_{2.5}$. Nonetheless, these modeling results further strengthen DAQ’s belief that there is no scientific basis for maintaining the current nonattainment new source review offsetting requirements at this time.

Major source permit modeling is not required when an area is in nonattainment, since offsetting applies. However, after the attainment designation, new major sources, major modifications, and projects that exceed certain pollutant amounts will be required to perform emissions modeling to show compliance with the national ambient air quality standards prior to project approval. The new modeling requirements will help to keep direct PM$_{2.5}$ emissions growth in check.

Although DAQ does not find offsetting rules necessary at this time, if the Wasatch Front experiences continuous strong PCAP events, and there is sound scientific justification, additional offsetting rules may be revisited. Additionally, DAQ is required to submit an updated PM$_{2.5}$ maintenance plan eight years after formal redesignation. If the Wasatch Front is able to attain the ozone standard, a maintenance plan will be required for that as well. For now DAQ is not planning on continuing with R307-422. These planning points are good opportunities to reassess the efficacy and necessity of permitting and offsetting rules.

**B. Open Meetings, Conflicts, Ethics, and Records Training. Presented by Craig Anderson, Attorney General’s Office, Environment Division.**

A summary presentation was emailed prior to the meeting for the Board’s review. Mr. Anderson indicated that the only significant change was in the Open and Public Meetings Act (OPMA). In March 2020, Governor Herbert issued an executive order suspending the requirements for an anchor location. That was later revoked by the Legislature through House Bill 5002 that allows for electronic meetings with a couple of additional requirements. One, is that an agency have a rule regarding open meetings, which the DEQ does have. And two, requires that a statement be included with the meeting notice and be read into the record at any electronic meeting stating the determination of risk which precludes having an anchor location.

Mr. Anderson was asked about what is the threshold regarding texts and emails. Mr. Anderson explained that the purpose of the OPMA and Government Records Access and Management Act (GRAMA) is to ensure that the public’s business is conducted in a manner that is open and transparent. The Board needs to be aware that emails and texts may constitute a record under GRAMA and that emailing or texting a quorum of the Board may constitute a public record and may need to be disclosed.

**C. Air Toxics. Presented by Leonard Wright.**

**D. Compliance. Presented by Harold Burge and Rik Ombach.**

Jay Morris, Compliance Branch Manager at DAQ, gave a brief update on unresolved notices of violations.

**E. Monitoring. Presented by Bo Call.**

Bo Call, Monitoring Section Manager at DAQ, gave an update on the monitoring charts, noting the spikes related to wildfire events. Mr. Bird added that the potential for exceptional events for the wildfire events are not likely to be regulatorily significant where EPA would accept an exceptional
events justification. Those events have been flagged and DAQ will collect the information for an
exceptional event, but will not turn it in to EPA at this point.

F. Other Items to be Brought Before the Board.

G. Board Meeting Follow-up Items.

Mr. Bird explained that DAQ is still planning on bringing back the penalty rule to the Board. The
penalty rule will impact statewide and would be subject to S.B.6004. Staff is working to ensure
that there will be good coordination with the penalty process and also to get better documentation
to facilitate good discussion.

Liam Thrailkill, Rules Coordinator at DAQ, updated that staff is currently reviewing the
background of information regarding the Board’s questions relating to R307-101-2 and R307-150
as stated in the board meeting follow-up items of the September 2020 meeting.

Meeting adjourned at 2:09 p.m.
ITEM 4
MEMORANDUM

TO: Air Quality Board

THROUGH: Bryce C. Bird, Executive Secretary

FROM: Catherine Wyffels, Environmental Engineer

DATE: November 18, 2020


On September 2, 2020, the Division of Air Quality (DAQ) proposed for public comment an amendment to Section IX, Part H of the State Implementation Plan (SIP). This amendment was necessary for Environmental Protection Agency (EPA) approval of required SIP elements in order to redesignate the Salt Lake City, UT nonattainment area, to attainment status.

As part of EPA’s review of the technical support documentation (TSD) and emission limits in Section IX, Part H of the PM$_{2.5}$ SIP, EPA stated that it could not approve Part H due to the startup, shutdown, malfunction (SSM) limits for Kennecott’s Power Plant. EPA found that the SSM provisions were not sufficiently supported in the TSD. In addition, at the time of EPA’s review of the TSD and Part H of the PM$_{2.5}$ SIP, EPA had not finalized its SSM policy. On October 9, 2020, EPA issued a guidance memorandum to address the SSM provisions in SIPs. However, this policy will be part of a lawsuit that will be heard in the D.C. circuit. The court was waiting for EPA to finalize its SSM policy before ruling on the lawsuit. Given the uncertainty with EPA’s nationwide SSM policy and the lack of supporting documentation in the TSD, EPA stated that the SSM provisions for the power plant in Part H were not approvable.

Since Kennecott’s Power Plant has been shut down and the units subject to these provisions are no longer in operation, DAQ proposed to remove these provisions from Part H to ensure that these limits do not delay EPA approval of the PM$_{2.5}$ Serious Area SIP and redesignation to attainment.
R307-110-17 is the rule that incorporates Part H into the air quality rules. This rule was amended to update the incorporation date to reflect the changes made in Part H.

A public comment period was held between October 1, 2020, and November 3, 2020. No public hearing was requested. DAQ received a comment letter from Kennecott on November 2, 2020, in support of the amendment. DAQ appreciates the support from Kennecott throughout this process and their commitment to redesignation of the Salt Lake City, UT nonattainment area. The public comment letter is attached to the memo as reference.

Recommendation: Staff recommends that the Board propose Utah State Implementation Plan. Emission Limits and Operating Practices, Section IX, Part H; and R307-110-17 for final adoption.
November 2, 2020

Subject: Public Comment on UDAQ’s Amendment of Section IX, Part H of the State Implementation Plan

Dear Mr. Bird,

Rio Tinto Kennecott Utah Copper LLC (Kennecott) is submitting this public comment on the Utah Division of Air Quality (UDAQ) proposal to amend Section IX, Part H of the State Implementation Plan (SIP).

On February 15, 2019, UDAQ submitted to EPA the Air Quality Board-approved PM2.5 Serious Area SIP, including Part A and Part H. Part H of the PM2.5 SIP included start up, shutdown, malfunction (SSM) limits for Kennecott’s Utah Power Plant, which were developed based on UDAQ BACT guidelines.

As part of its review process, EPA has found that these provisions were not sufficiently supported in the Technical Support Document and are not approvable based on the technical information included. Since Kennecott’s Utah Power Plant has been shut down and the units subject to these provisions are no longer in operation, UDAQ is proposing to remove these provisions from Part H to ensure that these limits do not delay EPA approval of the PM2.5 Serious Area SIP and redesignation to attainment.

Kennecott supports UDAQ’s proposal to remove SSM limits for the Kennecott Utah Power Plant. The proposed amendment captures the intent of EPA’s comment and Kennecott looks forward to the EPA approval of the PM2.5 Serious Area SIP and redesignation to attainment.

As stated in other communications, on May 1, 2019, Kennecott announced the retirement of the Utah Power Plant and associated power generation equipment. The facility changes associated with this decision were formally adopted into the Approval Order in January 2020.

Should you have any questions regarding this public comment, please contact me at 801-569-6494.

Respectfully submitted,

Jenny Esker
Principal Advisor – Air Quality

Rio Tinto Kennecott Utah Copper, LLC 4700 Daybreak Parkway, South Jordan, Utah 84009.
Utah State Implementation Plan

Emission Limits
and Operating Practices

Section IX, Part H

Proposed:
Adopted by the Air Quality Board
December 2, 2020
i. Kennecott Utah Copper (KUC): Power Plant

i. Utah Power Plant

A. The following requirements are applicable to Unit #4:

I. Only natural gas shall only be used as a fuel, unless the supplier or transporter of natural gas imposes a curtailment. Unit #4 may then burn coal, only for the duration of the curtailment plus sufficient time to empty the coal bins following the curtailment. The Director shall be notified of the curtailment within 48 hours of when it begins and within 48 hours of when it ends.

II. Emissions to the atmosphere when burning natural gas shall not exceed the following rates and concentrations:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Grains/dscf</th>
<th>ppmdv</th>
<th>lbs/hr</th>
<th>lbs/MMBtu</th>
</tr>
</thead>
<tbody>
<tr>
<td>60°F, 29.92 in Hg, 3% O₂</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PM₂.₅:</td>
<td>0.004</td>
<td>Filterable + condensable</td>
<td>0.03</td>
<td></td>
</tr>
<tr>
<td>NOₓ:</td>
<td>30</td>
<td>32</td>
<td>0.04</td>
<td></td>
</tr>
</tbody>
</table>

B. Upon commencement of operation of Unit #4, stack testing to demonstrate compliance with each emission limitation in IX.H.12.j.i.A and IX.H.12.j.i.B shall be performed as follows:

* Initial compliance testing for the Unit 4 boiler is required. Initial testing shall be performed when burning natural gas. The initial test shall be performed within 60 days after achieving the maximum heat input capacity production rate at which the affected facility will be operated and in no case later than 180 days after the initial startup of a new emission source.

The limited use of natural gas during maintenance firings and break-in firings does not constitute operation and does not require stack testing.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Test Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM₂.₅:</td>
<td>every year</td>
</tr>
<tr>
<td>NOₓ:</td>
<td>every year</td>
</tr>
</tbody>
</table>

C. Unit #5 (combined cycle, natural gas-fired combustion turbine) shall not exceed the following emission rates to the atmosphere:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>lbs/hr</th>
<th>ppmdv (15% O₂ dry)</th>
</tr>
</thead>
</table>
I. PM$_{2.5}$ with duct firing:
   Filterable + condensable 18.8

II. VOC: 2.0

III. NOx: 2.0

D: Upon commencement of operation of Unit #5*, stack testing to demonstrate compliance with the emission limitations in IX.H.12.m.i.B shall be performed as follows for the following air contaminants:

* Initial compliance testing for the natural gas turbine and duct burner is required. The initial test shall be performed within 60 days after achieving the maximum heat input capacity production rate at which the affected facility will be operated and in no case later than 180 days after the initial startup of a new emission source.

The limited use of natural gas during maintenance firings and break-in firings does not constitute operation and does not require stack testing.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Test Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. PM$_{2.5}$</td>
<td>every year</td>
</tr>
<tr>
<td>II. NOx</td>
<td>every year</td>
</tr>
<tr>
<td>III. VOC</td>
<td>every year</td>
</tr>
</tbody>
</table>
The Utah State Implementation Plan, Section IX, Control Measures for Area and Point Sources, Part H, Emission Limits and Operating Practices, as most recently amended by the Utah Air Quality Board on December 2, 2020, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

KEY: air pollution, PM10, PM2.5, ozone

Date of Enactment or Last Substantive Amendment: December 5, 2019
Notice of Continuation: January 27, 2017
Authorizing, and Implemented or Interpreted Law: 19-2-104
ITEM 5
Air Toxics
# MEMORANDUM

**TO:** Air Quality Board  
**FROM:** Bryce C. Bird, Executive Secretary  
**DATE:** November 06, 2020  
**SUBJECT:** Air Toxics, Lead-Based Paint, and Asbestos (ATLAS) Section Compliance Activities – October 2020

<table>
<thead>
<tr>
<th>Activity Description</th>
<th>Count</th>
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<tr>
<td>Asbestos Demolition/Renovation NESHAP Inspections</td>
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<tr>
<td>Asbestos AHERA Inspections</td>
<td>13</td>
</tr>
<tr>
<td>Asbestos State Rules Only Inspections</td>
<td>1</td>
</tr>
<tr>
<td>Asbestos Notification Forms Accepted</td>
<td>123</td>
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<tr>
<td>Asbestos Telephone Calls</td>
<td>471</td>
</tr>
<tr>
<td>Asbestos Individuals Certifications Approved</td>
<td>106</td>
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<tr>
<td>Asbestos Company Certifications/Re-Certifications</td>
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<tr>
<td>Asbestos Alternate Work Practices Approved/Disapproved</td>
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<td>Lead-Based Paint (LBP) Inspections</td>
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<td>LBP Notification Forms Approved</td>
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<td>LBP Telephone Calls</td>
<td>113</td>
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<tr>
<td>LBP Letters Prepared and Mailed</td>
<td>2</td>
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<tr>
<td>LBP Courses Reviewed/Approved</td>
<td>0</td>
</tr>
<tr>
<td>LBP Course Audits</td>
<td>0</td>
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<tr>
<td>LBP Individual Certifications Approved</td>
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</tr>
</tbody>
</table>
LBP Firm Certifications  2
Notices of Violation Sent  0
Compliance Advisories Sent  4
Warning Letters Sent  4
Settlement Agreements Finalized  0
Penalties Agreed to:
Compliance
MEMORANDUM

TO: Jay Morris, Compliance Branch Manager
FROM: Harold Burge, Major Source Compliance Manager
DATE: November 10, 2020
SUBJECT: Compliance Activities – October 2020

Annual Inspections Conducted:

- Major ........................................... 1
- Synthetic Minor ................................ 1
- Minor ........................................... 20

On-Site Stack Test Audits Conducted: ........................................... 3

Stack Test Report Reviews: ......................................................... 28

On-Site CEM Audits Conducted: ................................................... 0

Emission Reports Reviewed: ........................................................... 20

Temporary Relocation Requests Reviewed & Approved: .................... 4

Fugitive Dust Control Plans Reviewed & Accepted: .......................... 142

Burn Permits Issued: ................................................................. 0

Soil Remediation Report Reviews: .............................................. 0

Miscellaneous Inspections Conducted: ........................................... 20
Complaints Received: ................................................................. 25

Breakdown Reports Received: .................................................... 0

Compliance Actions Resulting from a Breakdown: ...................... 0

Warning Letters Issued: ............................................................. 2

Notices of Violation Issued: ....................................................... 2

Unresolved Notices of Violation:

  US Magnesium ............................................................................ 08/27/2015
  US Magnesium ............................................................................ 03/02/2018
  US Magnesium ............................................................................ 01/08/2019
  EP Energy .................................................................................. 01/01/2020
  Citation Oil and Gas (2) .............................................................. 01/08/2020
  Reaction Cargo .......................................................................... 01/09/2020
  Ovintiv Production ..................................................................... 07/15/2020
  Quinex Energy .......................................................................... 10/13/2020
  Skywest ...................................................................................... 10/30/2020

Compliance Advisories Issued: ................................................ 1

No Further Action Letters Issued: .............................................. 3

Settlement Agreements Reached: ............................................ 1

  CH-4 Finley ............................................................................... $2,951.00

1Miscellaneous inspections include, e.g., surveillance, level I inspections, VOC inspections, complaints, on-site training, dust patrol, smoke patrol, open burning, etc.
Air Monitoring
# Utah 24-Hr PM$_{2.5}$ Data August 2020

<table>
<thead>
<tr>
<th></th>
<th>BV</th>
<th>ED</th>
<th>HV</th>
<th>HW</th>
<th>LN</th>
<th>RP</th>
<th>SM</th>
<th>SF</th>
<th>AMC</th>
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<tbody>
<tr>
<td>Arith Mean</td>
<td>9.3</td>
<td>13.7</td>
<td>11.1</td>
<td>10.6</td>
<td>11.1</td>
<td>12.2</td>
<td>14.9</td>
<td>11.4</td>
<td>12.5</td>
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<tr>
<td>Max 24-hr Avg</td>
<td>15.0</td>
<td>65.5</td>
<td>42.1</td>
<td>41.8</td>
<td>32.1</td>
<td>46.6</td>
<td>61.7</td>
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<td>46.1</td>
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<tr>
<td>98th percentile</td>
<td>14.5</td>
<td>49.4</td>
<td>40.2</td>
<td>34.2</td>
<td>28.4</td>
<td>38.1</td>
<td>55.1</td>
<td>35.9</td>
<td>38.2</td>
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<tr>
<td>Days of Data</td>
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<td>31</td>
<td>30</td>
<td>31</td>
<td>23</td>
<td>31</td>
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<tr>
<td>Days &gt;35 µg/m$^3$</td>
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<td>2</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>3</td>
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Exceedence Value is 35 µg/m$^3$
Utah 24-Hr PM$_{2.5}$ Data September 2020

<table>
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<tr>
<th>Days &gt;35 µg/m$^3$</th>
<th>BV</th>
<th>ED</th>
<th>HV</th>
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Exceedence Value is 35 µg/m$^3$
Utah 24-Hr PM$_{2.5}$ Data October 2020

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<thead>
<tr>
<th>Days &gt;35 µg/m³</th>
<th>BV</th>
<th>ED</th>
<th>HV</th>
<th>HW</th>
<th>LN</th>
<th>RP</th>
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Power glitch issues

Exceedence Value is 35 µg/m³

Arith Mean

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<tr>
<th>BV</th>
<th>ED</th>
<th>HV</th>
<th>HW</th>
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<td>9.4</td>
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Max 24-hr Avg

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<th>BV</th>
<th>ED</th>
<th>HV</th>
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<td>32.3</td>
<td>30.2</td>
<td>30.9</td>
<td>27.6</td>
<td>25.5</td>
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<td>28.6</td>
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98th percentile

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Days of Data

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Bountiful
Erda
Hawthorne
Lindon
Smithfield
Spanish Fork
AMC

PM$_{2.5}$ (µg/m³)

Days

Utah Division of Air Quality
Utah Division of Air Quality

Utah 24-hr PM$_{10}$ Data August 2020

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Exceedance Value is 150 µg/m$^3$
Utah 24-hr PM$_{10}$ Data September 2020

Exceedance Value is 150 ug/m$^3$

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Utah 24-hr PM$_{10}$ Data  October 2020

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Exceedance Value is 150 µg/m$^3$
Highest 8-hr Ozone Concentration & Daily Maximum Temperature Aug 2020

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Highest 8-hr Ozone Concentration & Daily Maximum Temperature  Aug 2020

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Highest 8-hr Ozone Concentration & Daily Maximum Temperature  Aug 2020

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Smithfield

Days

Days

Ozone (ppm)

Daily Maximum Temperature (°C) (Smithfield)
Highest 8-hr Ozone Concentration & Daily Maximum Temperature  Aug 2020

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Arith Mean: .069, .063
8-hr. Ozone 4th Max: .068, .068
Days of Data: 31, 31
Days > 0.070: 2, 3
Highest 8-hr Ozone Concentration & Daily Maximum Temperature  Aug 2020

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Days

Days

Ozone (ppm)

Daily Maximum Temperature (°C) (Hurricane)

- Enoch
- Escalante
- Hurricane
- Exceed.
- TM
Highest 8-hr Ozone Concentration & Daily Maximum Temperature September 2020

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Ozone (ppm)

Days

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<th>Herriman #3</th>
<th>Harrisville</th>
<th>Hawthorne</th>
<th>Neve Road</th>
<th>Rose Park</th>
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Daily Maximum Temperature (°C) (Hawthorne)
Highest 8-hr Ozone Concentration & Daily Maximum Temperature  September 2020

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Highest 8-hr Ozone Concentration & Daily Maximum Temperature September 2020

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**Smithfield**

- Daily Maximum Temperature (°C)
- Ozone (ppm)

- Smithfield
- Exceed.
- TM

---

Days

- 1: 25.3
- 2: 33.7
- 3: 36.7
- 4: 35.5
- 5: 30.5
- 6: 31.7
- 7: 24.1
- 8: 26.0
- 9: 30.2
- 10: 31.2
- 11: 32.5
- 12: 31.9
- 13: 33.1
- 14: 24.1
- 15: 27.2
- 16: 29.4
- 17: 28.5
- 18: 26.4
- 19: 21.4
- 20: 18.7
- 21: 18.7
- 22: 18.7
- 23: 21.4
- 24: 24.9
- 25: 24.9
- 26: 24.0
- 27: 24.0
- 28: 29.4
- 29: 29.4
- 30: 28.5
- 31: 26.4

---

Ozone (ppm)

- 0
- 0.01
- 0.02
- 0.03
- 0.04
- 0.05
- 0.06
- 0.07
- 0.08
- 0.09
- 0.1

Daily Maximum Temperature (°C)

- 10.0
- 15.0
- 20.0
- 25.0
- 30.0
- 35.0
- 40.0
- 45.0
- 50.0
- 55.0
- 60.0
Highest 8-hour Ozone Concentration & Daily Maximum Temperature  September 2020

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Ozone (ppm) vs. Days

- **Lindon**
- **Spanish Fork**
- **Exceed.**
- **TM**
Highest 8-hour Ozone Concentration & Daily Maximum Temperature September 2020

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8-hour Ozone 4th Max

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Highest 8-hour Ozone Concentration & Daily Maximum Temperature  October 2020

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Highest 8-hr Ozone Concentration & Daily Maximum Temperature  October 2020

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Days

Ozone (ppm)

Daily Maximum Temperature (°C) (Smithfield)

- Smithfield
- Exceed.
- TM
## Highest 8-hr Ozone Concentration & Daily Maximum Temperature  October 2020

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### Graph Details:
- **Y-axis:** Ozone (ppm)
- **X-axis:** Days
- **Legend:**
  - **Lindon**
  - **Spanish Fork**
  - **Exceed.**
  - **TM**

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Highest 8-hr Ozone Concentration & Daily Maximum Temperature  October 2020

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</tbody>
</table>

Days

Ozone (ppm)

Daily Maximum Temperature (°C) (Hurricane)
Highest 8-hour Ozone Concentration & Daily Maximum Temperature November 2020

<table>
<thead>
<tr>
<th></th>
<th>BV</th>
<th>CV</th>
<th>ED</th>
<th>H3</th>
<th>HV</th>
<th>HW</th>
<th>LP</th>
<th>NR</th>
<th>RP</th>
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<tbody>
<tr>
<td>Arith Mean</td>
<td>.034</td>
<td>.031</td>
<td>.032</td>
<td>.037</td>
<td>.028</td>
<td>.033</td>
<td>.033</td>
<td>.030</td>
<td>.028</td>
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<tr>
<td>8-hour Ozone 4th Max</td>
<td>.038</td>
<td>.035</td>
<td>.035</td>
<td>.039</td>
<td>.031</td>
<td>.037</td>
<td>.037</td>
<td>.035</td>
<td>.030</td>
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<td>Days of Data</td>
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<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Days &gt; 0.070</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>

Ozone Concentration (ppm)
Highest 8-hr Ozone Concentration & Daily Maximum Temperature  November 2020

<table>
<thead>
<tr>
<th></th>
<th>P2</th>
<th>RS</th>
<th>V4</th>
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<tbody>
<tr>
<td>Arith Mean</td>
<td>.038</td>
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<td>.036</td>
</tr>
<tr>
<td>8-hr. Ozone 4th Max</td>
<td>.040</td>
<td>.041</td>
<td>.038</td>
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<tr>
<td>Days of Data</td>
<td>15</td>
<td>15</td>
<td>15</td>
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<tr>
<td>Days &gt; 0.070</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- **Price #2**: Blue line
- **Roosevelt**: Green line
- **Vernal #4**: Purple line
- **Exceed.**: Black line
- **TM**: Red circles
### Highest 8-hr Ozone Concentration & Daily Maximum Temperature  November 2020

#### Smithfield

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Arith Mean</td>
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<tr>
<td>8-hr. Ozone 4th Max</td>
<td>0.034</td>
</tr>
<tr>
<td>Days of Data</td>
<td>15</td>
</tr>
<tr>
<td>Days &gt; 0.070</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Graph

- **Y-axis**: Ozone (ppm)
- **X-axis**: Days

#### Data

- **Ozone (ppm)**
  - Days 1: 0.3
  - Days 2: 0.5
  - Days 3: 4.9
  - Days 4: 4.6
  - Days 5: 4.6
  - Days 6: 2.9
  - Days 7: 6.4
  - Days 8: 2.1
  - Days 9: 2.1
  - Days 10: 21.1
  - Days 11: 2.3
  - Days 12: 0.3
  - Days 13: 19.9
  - Days 14: 4.9
  - Days 15: 4.6
  - Days 16: 1.7
  - Days 17: 21.6
  - Days 18: 60.0

#### Additional Information

- **Daily Maximum Temperature (°C)**
  - Days 1: 20.3
  - Days 2: 29.3
  - Days 3: 31.9
  - Days 4: 25.1
  - Days 5: 22.1
  - Days 6: 19.9

**Legend**:
- **Smithfield**
- **Exceed.**
- **TM**
Highest 8-hour Ozone Concentration & Daily Maximum Temperature  November 2020

<table>
<thead>
<tr>
<th></th>
<th>LN</th>
<th>SF</th>
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</thead>
<tbody>
<tr>
<td>Arith Mean</td>
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<tr>
<td>8-hour Ozone 4th Max</td>
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<td>.038</td>
</tr>
<tr>
<td>Days of Data</td>
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<td>15</td>
</tr>
<tr>
<td>Days &gt; 0.070</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Ozone (ppm)**: The graph shows daily maximum temperatures and 8-hour ozone concentrations for November 2020 in Lindon and Spanish Fork. The data represents the highest 8-hour ozone concentrations and daily maximum temperatures for the month.

**Exceed.**: The graph indicates the number of days exceeding certain ozone concentration thresholds.

**Days**: The x-axis represents the days of the month, from 1 to 31.
### Highest 8-hr Ozone Concentration & Daily Maximum Temperature  November 2020

<table>
<thead>
<tr>
<th>Days of Data</th>
<th>Enoch</th>
<th>Escalante</th>
<th>Hurricane</th>
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<tbody>
<tr>
<td>Days &gt; 0.070</td>
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<td>0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Days</th>
<th>0.032</th>
<th>0.041</th>
<th>0.036</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>HC</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Days</th>
<th>0.035</th>
<th>0.045</th>
<th>0.040</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>EN</td>
<td>ES</td>
<td>HC</td>
</tr>
</tbody>
</table>

### Data Summary

- **Arith Mean**
  - Enoch: 0.032
  - Escalante: 0.041
  - Hurricane: 0.036

- **8-hr. Ozone 4th Max**
  - Enoch: 0.035
  - Escalante: 0.045
  - Hurricane: 0.040

The graph shows the daily maximum temperature (°C) for hurricanes and the ozone concentration (ppm) for the highest 8-hour duration.

The table above provides the arithmetic mean and the maximum ozone concentration for each location.