Melissa Turley

RE: A0014739

May 24, 2023

Administrator Vehr,

Please accept the attached comments and air dispersion modeling conducted by Air Resource Specialists (ARS) on behalf of Teton Village Association in regard to Arbor Works Tree Service's application A0014739 to install and operate a portable air curtain burner in Teton County, 1.5 miles south of Teton Village.

ARS determined that nitrogen oxide emissions from the proposed air curtain burner would not meet the National Ambient Air Quality Standards (NAAQS) for nitrogen dioxide. Because the permit application and WDEQ analysis were incomplete and the full air quality impacts from the proposed air curtain burner were not addressed, members of the public were not provided all necessary information documenting the impacts. Therefore, Teton Village Association respectfully requests this be corrected by the applicant and WDEQ and a new 30-day public notice and comment period be provided once a complete analysis is provided by WDEQ.

Thank you,

Melissa Turley, Executive Director
Teton Village Association ISD

Nancy Vehr, Administrator
Division of Air Quality, Department of Environmental Quality
200 West 17th St.
Cheyenne, Wyoming 82002
Submitted electronically

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May 24, 2023

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Melissa Turley

Melissa Turley, Executive Director
Teton Village Association ISD

Air Resource SPECIALISTS

Comments on Arbor Works Tree Service Draft Permit
Submitted on behalf of Teton Village Association ISD

Teton Village Association ISD has contracted with Air Resource Specialists, Inc. (ARS) to review and provide comments on the proposal by Arbor Works Tree Service (AWTS) to construct and operate a portable air curtain burner on property located approximately 1.5 miles south of Teton Village, WY. The closest residence to the proposed AWTS site lies within approximately 0.5 miles.

The AWTS proposal is documented in Permit Application Analysis A0014739 prepared by the Wyoming Department of Environmental Quality (WDEQ), Air Quality Division.

Detailed comments are provided below.

1. **The proposed AWTS air curtain burner will cause violations of the National Ambient Air Quality Standards (NAAQS) for nitrogen dioxide (NO_2).**

The WDEQ permit application analysis did not provide an assessment of air quality impacts via air dispersion modeling (See Section 9 of Permit Application Analysis A0014739). As such, Teton Village Association ISD requested that ARS perform such dispersion modeling. ARS performed an air quality dispersion modeling analysis using the EPA AERMOD dispersion model and following the procedures in WDEQ's *Guidance for Conducting Near-Field Modeling Analyses for Minor Sources.*

The ARS modeling analysis determined that nitrogen oxide (NOx) emissions from the proposed air curtain burner would not meet the NAAQS for nitrogen dioxide (NO_2). The details of the ARS modeling analysis are documented in a separate report, also attached.

A permit cannot be issued for the proposed air curtain burner if the source will cause or contribute to a NAAQS violation.

2. **The WDEQ analysis relies on limited operating hours for the proposed air curtain burner, but such limitations do not appear in the proposed WDEQ permit conditions.**

In the calculations submitted by the applicant and relied upon by WDEQ, the air emissions from the air curtain burner and associated diesel-fired electric generator engine were based on limited hours of operation, e.g., 6 hours per day and 180 days per year. However, the draft permit conditions proposed by WDEQ did not explicitly limit the operating time for

the proposed equipment (See Section 10 of Permit Application Analysis A0014739). An explicit permit limit on equipment operation matching the emission calculation assumptions is needed. Otherwise, the proposed emissions relied upon by WDEQ are not enforceable. Also, if the carbon monoxide (CO) emissions from WDEQ Analysis Table 2 are extrapolated to full-time operation because the permit lacks operating restrictions, the potential CO emissions would exceed 100 tons per year (tpy), making the AWTS plant a "major source".

The proposed permit operating limits are listed below:

- The quantity of wood loaded to the burner shall not exceed 54 tons per day.
- The operating time for the burner and associated generator engine shall not exceed six hours in any calendar day and shall not exceed 180 days in any calendar year.

The permit also needs to include appropriate monitoring, recordkeeping, and reporting provisions to verify compliance with the proposed equipment operating limits.

3. The emissions inventory for the proposed air curtain burner is incomplete.

The emissions inventory submitted by the applicant and relied upon by WDEQ only addresses emissions from the burner and the associated generator engine. However, other emissions will occur at the ATWS site in direct support of the burner and these emissions need to be quantified since they would not occur if not for the burner operation.

- The burner will generate ash as a waste product. Using a typical value for wood material of 10% ash, the ash generation will be as much as 5 tons per day. Ash is a fine material and can create significant quantities of dust if not properly managed. The applicant's ash handling and disposal practices need to be identified and the associated PM emissions need to be quantified, including any fugitive dust emissions associated with trucking the ash material off-site for disposal. This information is lacking in the AWTS permit applicant and WDEQ permit analysis.

- Teton Village Association ISD understands that the wood waste volumes which will be handled at the burner are not currently on the AWTS property. This means that the waste materials destined for the burner will be trucked to the site. The fugitive dust emissions associated with trucking materials to the site need to be quantified and addressed in the WDEQ permit analysis. If this understanding is incorrect and no additional materials are to be brought to the AWTS site, then a permit restriction to that effect is needed.

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- It is assumed that the wood waste materials will be stored at a staging area on-site and then transported to the burner when the burner is in use. This equipment will travel on unpaved surfaces within the AWTS site when transporting materials to the burner and fugitive dust will be created. These emissions need to be addressed in the permit application and WDEQ analysis.

Lastly, the final permit needs to include appropriate emission control requirements for sources of fugitive dust, including but not restricted to truck and equipment travel on unpaved surfaces within the AWTS property, ash handling and disposal, etc.

4. The Permit needs to include appropriate monitoring to assure compliance with proposed opacity limits.

The proposed permit lists a 20% opacity restriction during steady-state operations, but there is no accompanying requirement for the source to actually perform opacity testing for compliance verification. A permit requirement to conduct periodic opacity testing needs to be included in the permit, otherwise the proposed opacity restriction becomes meaningless. Teton Village Association ISD requests that AWTS be required to monitor opacity on no less than a weekly basis when the burner is in operation. The opacity testing requirements may be changed to monthly testing if the initial testing over the first year of operation demonstrates compliance.

Also, an opacity limit for the burner startup period is needed. Under the draft permit, there is no restriction on opacity during the initial 30 minutes after burner ignition. The startup period is when visible smoke is most likely to occur. The start-up opacity limit also need to include appropriate compliance testing and monitoring as described above.

5. The Draft Permit and WDEQ Analysis needs to be corrected to address the deficiencies noted above and a new 30-day public review and comment period is needed.

The permit application and accompanying WDEQ analysis was incomplete and the full air quality impacts from the proposed AWTS air curtain burner were not addressed. The omission of critical information means that Teton Village Association ISD and other members of the public were not provided all necessary information documenting the impacts of the proposed AWTS air curtain burner. This needs to be corrected by the applicant and WDEQ. Once a complete analysis is provided by WDEQ, a new 30-day public notice and comment period should be provided.

Air Resource SPECIALISTS

Air Quality Dispersion Modeling Report
Arbor Works Tree Service – Teton Village, WY
Submitted on behalf of Teton Village Association ISD

Teton Village Association ISD has contracted with Air Resource Specialists, Inc. (ARS) to conduct an air quality dispersion modeling study of the proposed Arbor Works Tree Service (AWTS) portable air curtain burner. The burner and an associated diesel-fired electric generator engine are proposed to be located on AWTS property located approximately 1.5 miles south of Teton Village, WY. The closest residence to the proposed AWTS site lies within approximately 0.5 miles.

The AWTS proposal is documented in Permit Application Analysis A0014739 prepared by the Wyoming Department of Environmental Quality (WDEQ), Air Quality Division. In the Permit Application Analysis, WDEQ stated that a dispersion modeling study was not conducted as part of the permit applications review, instead claiming that the National Ambient Air Quality Standards (NAAQS) would be protected based on utilization of Best Available Control Technology (BACT) to reduce emissions.

However, WDEQ's assertion about NAAQS compliance did not consider important variables that can lead to adverse ambient air quality impacts such as the height of the emissions release and the proximity of the property boundary to significant emission sources. Based on the ARS modeling analysis, it was determined that nitrogen oxide (NOx) emissions from the proposed air curtain burner would cause the NAAQS for nitrogen dioxide (NO_2) to be exceeded at locations outside of the AWTS property. The details of the ARS modeling are documented in this report.

A permit cannot be issued by WDEQ for the proposed AWTS air curtain burner if the source will cause or contribute to a NAAQS violation.

Modeling Overview

The ARS air dispersion modeling study was conducted using the current regulatory version of the US Environmental Protection Agency (EPA) AERMOD model (V22112) along with supporting software programs, including AERMET (V22112), AERMAP (V18081), and AERSURFACE (V20060). AERMOD was executed using the standard regulatory default options. The meteorological data input to the modeling were created using AERMET and surface weather observations at the nearby Jackson Hole Airport (KJAC, WBAN 24166). One year of meteorological data from Calendar Year 2021 was created and used to drive the model dispersion and transport calculations.

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The technical procedures followed in the ARS modeling were guided by WDEQ's *Guidance for Conducting Near Field Modeling Analyses of Minor Sources*, dated January 2018.

Emissions and Emissions Characterization

Nitrogen oxide (NOx) emissions were taken from the AWTS permit application and the subsequent permit application review by WDEQ as documented in the Permit Application Analysis (A0014739, dated April 13, 2023).

NOx emissions from the planned air curtain burner are listed in the permit application at 9 lb/hr. Only the burner NOx emissions were modeled. Additional NOx emissions from the diesel-fired generator associated with the burner were not modeled.

The burner NOx emissions were modeled as three adjacent volume sources, so NOx emissions were set at 3 lb/hr per volume source (9 lb/hr total). The volume source parameters were based on the dimensions of the Air Burner S-223 equipment identified by AWTS in the permit application. There is no emissions stack based on photographs of the burner equipment presented in the permit application.

Using information presented in the permit application, the burner combustion chamber dimensions are 7 meters by 1.9 meters with a height of 2.2 meters. The burner combustion chamber is open at the top to allow material feed to the unit. Using the diesel engine fan, a curtain of airflow is generated over top of the combustion chamber. Under this configuration, ARS determined that emissions would most likely occur along the top edge of the combustion chamber on the side of the combustion chamber downwind of the fan.

The volume source parameters for model input are the height of release and the initial sigma-y and sigma-z parameters, which are defined by the size of the assumed emissions volume. Also, because the burner emissions are assumed to be buoyant, the NOx emissions are assumed to be spread across a vertical volume up to a height equal to twice the combustion chamber height. The release height is the midpoint of this volume or 2.2 meters.

The initial sigma-y and sigma-z parameters were calculated following recommendations for volume sources from the AERMOD User's Manual. The horizontal dimension for each of the three volume sources (initial sigma-y) was determined using the width of the combustion chamber (1.9 meters/2.15 = 0.884 meters). Separating the emissions into three volume sources allowed the emissions to be spread equally across the 7-meter length of the combustion chamber. The initial sigma-z was calculated based on the assumed volume depth, e.g., 4.4 meters/2.15 = 2.05 meters.

In the permit application, it is stated that the proposed air curtain burner would operate up to 6 hours per day. The planned limited operation of the source was simulated in AERMOD using the HROFDAY keyword. The burner NOx emissions were assumed to occur each day for the six-hour period between 9 am and 3 pm (HR 10-15), with zero emissions during the other hours. Please note that this operating limit was included in the modeling, even though there were no restrictions in the WDEQ draft permit on daily source operation. Modeled emissions were also assumed to occur 365 days per year. Although the annual emissions in the permit application were calculated based on 180 days/year operation, the draft permit does not limit the time of year when the burner can operate. As such, the EPA modeling guideline (40 CFR 51, Appendix W) requires that emissions be simulated as occurring at all times of the year, which helps assure that emissions occur in the model simultaneous with the worst-case dispersion condition.

The NOx-to-NO2 conversion in AERMOD was simulated using the ARM2 option.

The precise location for the burner equipment was not identified in the permit application. The three volume sources representing the burner emissions were placed near the center of the property area identified in the permit application.

Receptors

Receptor placement for AERMOD followed WDEQ's *Guidance for Conducting Near Field Modeling Analyses of Minor Sources*, dated January 2018. Receptors were placed at an interval of 50 meters along the AWTS property boundary, which was estimated using Google Earth imagery. Additional receptors were placed in a rectangular grid surrounding the AWTS property at a horizontal spacing of 100 meters. The 100-meter grid extended out to a distance of about 1 kilometer from the assumed source location.

In total, there were 464 receptors in AERMOD. Elevations for the receptors and volume sources were calculated using AERMAP (V18081), which was linked to digital elevation (3DEP) data. The 3DEP data were downloaded from https://gaftp.epa.gov/Air/aqmg/3dep/.

Because of the low emissions release height (2.2 meters), it is reasonable to expect that maximum ambient air quality impacts would occur at or near the property boundary and there was no need to extend the receptor grid beyond 1 kilometer.

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Meteorological Data

The meteorological data were generated using the AERMET processing program which accompanies AERMOD. Inputs were surface meteorological observations from Jackson Hole Airport (KJAC, WBAN 24166) coupled with twice-daily upper air observations from Riverton, WY Regional Airport (WBAN 24061). AERMET was run using the standard regulatory default options, including the ADJ_U* option. KJAC surface data were downloaded in the Integrated Surface Dataset (ISD) format from https://www1.ncdc.noaa.gov/pub/data/noaa/. The Riverton upper air data were downloaded in FSL format from https://ruc.noaa.gov/raobs/. The AERMINUTE processor was not used as KJAC lacks any archived AERMINUTE data.

AERMET requires data on surface characteristics, including surface roughness length, albedo, and Bowen ratio. These parameters were determined using AERSURFACE (V20060) and land cover data from the National Land Cover Database (NLCD). AERSURFACE processes 2016 NLCD data downloaded from the Multi-Resolution Land Characteristics (MRLC) Consortium NLCD Viewer at https://www.mrlc.gov/viewer/.

The meteorological data files generated using AERMET were KJAC2021.SFC and KJAC2021.PFL.

Model Results

The model results were generated using the form of the NAAQS. For NO_2, the 1-hour average NAAQS is 100 parts per billion (ppb) based on the 98th percentile concentration. The 98th percentile concentration is represented in AERMOD by the predicted highest-eighth-highest (H8H) 1-hour average NO_2 concentration. The NAAQS (100 ppb) equals 188 micrograms per cubic meter.

For the proposed AWTS air curtain burner, the predicted H8H 1-hour NO_2 concentration was 329.5 micrograms per cubic meter. The predicted H8H 1-hour average NO_2 concentration exceeds the applicable NAAQS by almost a factor of two.

Also, please remember that the AERMOD model result described above does not include any NOx emissions from the diesel-fired generator engine that accompanies the air curtain burner. Also, the modeling does not include a background NO_2 concentration. The background is intended to represent the ambient air quality impacts generated by emission sources that are not explicitly modeled and would include NOx emissions from sources such as nearby vehicle traffic and general urban emissions from nearby residential and commercial areas. As such, the actual NO_2 impacts are likely even higher than what is represented by the modeling.

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The AERMOD output file showing the modeling results is provided as an Attachment to this report. Electronic data files for all model input/output data are available upon request.

Because the AERMOD modeling demonstrates that the proposed AWTS air curtain burner will cause or contribute to a NAAQS violation, a permit for the AWTS air curtain burner cannot be issued by WDEQ.

**BEE-Line Software: (Version 12.09) data input file
** Model: AERMOD.EXE Input File Creation Date: 5/23/2023 Time: 9:59:42 AM
NO ECHO

*** Message Summary For AERMOD Model Setup ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 1 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W187 506 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****
*** SETUP Finishes Successfully ***
****

*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 1
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***
- -

** Model Options Selected:
* Model Uses Regulatory DEFAULT Options
* Model Is Setup For Calculation of Average CONCentration Values.
* NO GAS DEPOSITION Data Provided.
* NO PARTICLE DEPOSITION Data Provided.
* Model Uses NO DRY DEPLETION. DDPLETE = F
* Model Uses NO WET DEPLETION. WETDPLT = F
* Stack-tip Downwash.
* Model Accounts for ELEVated Terrain Effects.
* Use Calms Processing Routine.
* Use Missing Data Processing Routine.
* No Exponential Decay.
* Model Uses RURAL Dispersion Only.
* ADJ_U* - Use ADJ_U* option for SBL in AERMET

* CCVR_Sub - Meteorological data includes CCVR substitutions
* TEMP_Sub - Meteorological data includes TEMP substitutions
* Model Assumes No FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: NOX

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates ANNUAL Averages

**This Run Includes: 3 Source(s); 1 Source Group(s); and 464 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 3 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 22112

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 1956.50 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.6 MB of RAM.

**Input Runstream File: C:\Users\hgebhart\Documents\ARS Documents\Teton Village\Modeling\Teton Village_2021_NOx.DTA
**Output Print File: C:\Users\hgebhart\Documents\ARS Documents\Teton Village\Modeling\Teton Village_2021_NOx.LST

**File for Summary of Results: C:\Users\hgebhart\Documents\ARS Documents\Teton Village\Modeling\Teton Village_2021_NOx.SUM
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE
SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY
ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) BY
- -

VOL1 0 0.37799E+00 514188.5 4822530.2 1903.3 2.20 0.88 2.05 NO HROFDY
VOL2 0 0.37799E+00 514189.5 4822528.2 1903.3 2.20 0.88 2.05 NO HROFDY
VOL3 0 0.37799E+00 514190.5 4822526.2 1903.3 2.20 0.88 2.05 NO HROFDY
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 3
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
---------- ----------

ALL VOL1 , VOL2 , VOL3 ,
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 4
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR
- -

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .00000E+00 9 .00000E+00 10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .00000E+00 9 .00000E+00 10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .00000E+00 9 .00000E+00 10 .10000E+01 11 .10000E+01 12 .10000E+01

13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00

*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 5
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(515189.5, 4821528.2, 1902.5, 4196.3, 0.0); (513189.5, 4821628.2, 1897.1, 4196.3, 0.0);
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(513489.5, 4821628.2, 1898.6, 4196.3, 0.0); (513589.5, 4821628.2, 1898.8, 4196.3, 0.0);
(513689.5, 4821628.2, 1899.1, 4196.3, 0.0); (513789.5, 4821628.2, 1899.2, 4196.3, 0.0);
(513889.5, 4821628.2, 1899.6, 4196.3, 0.0); (513989.5, 4821628.2, 1900.0, 4196.3, 0.0);
(514089.5, 4821628.2, 1900.7, 4196.3, 0.0); (514189.5, 4821628.2, 1901.3, 4196.3, 0.0);
(514289.5, 4821628.2, 1901.8, 4196.3, 0.0); (514389.5, 4821628.2, 1902.0, 4196.3, 0.0);
(514489.5, 4821628.2, 1902.0, 4196.3, 0.0); (514589.5, 4821628.2, 1901.8, 4196.3, 0.0);

(514689.5, 4821628.2, 1901.9, 4196.3, 0.0); (514789.5, 4821628.2, 1902.0, 4196.3, 0.0);
(514889.5, 4821628.2, 1902.2, 4196.3, 0.0); (514989.5, 4821628.2, 1902.4, 4196.3, 0.0);
(515089.5, 4821628.2, 1902.6, 4196.3, 0.0); (515189.5, 4821628.2, 1903.1, 4196.3, 0.0);
(513189.5, 4821728.2, 1897.6, 4196.3, 0.0); (513289.5, 4821728.2, 1898.0, 4196.3, 0.0);
(513389.5, 4821728.2, 1898.5, 4196.3, 0.0); (513489.5, 4821728.2, 1899.0, 4196.3, 0.0);
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 6
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(513589.5, 4821728.2, 1899.3, 4196.3, 0.0); (513689.5, 4821728.2, 1899.6, 4196.3, 0.0);
(513789.5, 4821728.2, 1899.8, 4196.3, 0.0); (513889.5, 4821728.2, 1900.2, 4196.3, 0.0);
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(515189.5, 4821728.2, 1903.4, 4196.3, 0.0); (513189.5, 4821828.2, 1897.9, 4196.3, 0.0);
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(513689.5, 4821828.2, 1900.1, 4196.3, 0.0); (513789.5, 4821828.2, 1900.4, 4196.3, 0.0);
(513889.5, 4821828.2, 1900.7, 4196.3, 0.0); (513989.5, 4821828.2, 1901.2, 4196.3, 0.0);
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(514889.5, 4821828.2, 1903.2, 4196.3, 0.0); (514989.5, 4821828.2, 1903.3, 4196.3, 0.0);
(515089.5, 4821828.2, 1903.3, 4196.3, 0.0); (515189.5, 4821828.2, 1903.6, 4196.3, 0.0);
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(514589.5, 4821928.2, 1903.1, 4196.3, 0.0); (514689.5, 4821928.2, 1903.3, 4196.3, 0.0);
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(513389.5, 4822128.2, 1900.4, 4196.3, 0.0); (513489.5, 4822128.2, 1900.8, 4196.3, 0.0);
(513589.5, 4822128.2, 1901.1, 4196.3, 0.0); (513689.5, 4822128.2, 1901.5, 4196.3, 0.0);
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(513989.5, 4822128.2, 1902.0, 4196.3, 0.0); (514089.5, 4822128.2, 1902.2, 4196.3, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(514189.5, 4822128.2, 1902.6, 4196.3, 0.0); (514289.5, 4822128.2, 1903.2, 4196.3, 0.0);
(514389.5, 4822128.2, 1903.8, 4196.3, 0.0); (514489.5, 4822128.2, 1903.9, 4196.3, 0.0);
(514589.5, 4822128.2, 1903.6, 4196.3, 0.0); (514689.5, 4822128.2, 1903.3, 4196.3, 0.0);
(514789.5, 4822128.2, 1903.5, 4196.3, 0.0); (514889.5, 4822128.2, 1904.1, 4196.3, 0.0);
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(513889.5, 4822228.2, 1902.2, 4196.3, 0.0); (514389.5, 4822228.2, 1903.5, 4196.3, 0.0);
(514489.5, 4822228.2, 1904.1, 4196.3, 0.0); (514589.5, 4822228.2, 1904.0, 4196.3, 0.0);
(514689.5, 4822228.2, 1903.9, 4196.3, 0.0); (514789.5, 4822228.2, 1904.0, 4196.3, 0.0);
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(513589.5, 4822328.2, 1902.3, 4196.3, 0.0); (513689.5, 4822328.2, 1902.7, 4196.3, 0.0);
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(514889.5, 4822328.2, 1905.2, 4196.3, 0.0); (514989.5, 4822328.2, 1905.5, 4196.3, 0.0);
(515089.5, 4822328.2, 1905.6, 4196.3, 0.0); (515189.5, 4822328.2, 1905.7, 4196.3, 0.0);
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(514889.5, 4822428.2, 1905.8, 4196.3, 0.0); (514989.5, 4822428.2, 1906.1, 4196.3, 0.0);
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(514489.5, 4822528.2, 1905.2, 4196.3, 0.0); (514589.5, 4822528.2, 1905.6, 4196.3, 0.0);
(514689.5, 4822528.2, 1906.0, 4196.3, 0.0); (514789.5, 4822528.2, 1906.3, 4196.3, 0.0);
(514889.5, 4822528.2, 1906.5, 4196.3, 0.0); (514989.5, 4822528.2, 1906.7, 4196.3, 0.0);
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(513789.5, 4822628.2, 1903.3, 4196.3, 0.0); (513889.5, 4822628.2, 1904.1, 4196.3, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(513989.5, 4822628.2, 1904.4, 4196.3, 0.0); (514389.5, 4822628.2, 1905.7, 4196.3, 0.0);
(514489.5, 4822628.2, 1906.1, 4196.3, 0.0); (514589.5, 4822628.2, 1906.5, 4196.3, 0.0);
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(513189.5, 4823028.2, 1905.0, 4196.3, 0.0); (513289.5, 4823028.2, 1905.3, 4196.3, 0.0);
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(513989.5, 4823028.2, 1907.5, 4196.3, 0.0); (514089.5, 4823028.2, 1907.8, 4196.3, 0.0);
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(515189.5, 4823028.2, 1909.2, 4196.3, 0.0); (513189.5, 4823128.2, 1905.4, 4196.3, 0.0);
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 9
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(513289.5, 4823128.2, 1905.9, 4196.3, 0.0); (513389.5, 4823128.2, 1906.2, 4196.3, 0.0);
(513489.5, 4823128.2, 1906.6, 4196.3, 0.0); (513589.5, 4823128.2, 1906.9, 4196.3, 0.0);
(513689.5, 4823128.2, 1907.3, 4196.3, 0.0); (513789.5, 4823128.2, 1907.4, 4196.3, 0.0);
(513889.5, 4823128.2, 1907.6, 4196.3, 0.0); (513989.5, 4823128.2, 1907.9, 4196.3, 0.0);
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(514489.5, 4823128.2, 1909.4, 4196.3, 0.0); (514589.5, 4823128.2, 1909.2, 4196.3, 0.0);
(514689.5, 4823128.2, 1909.4, 4196.3, 0.0); (514789.5, 4823128.2, 1909.5, 4196.3, 0.0);
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(515089.5, 4823128.2, 1909.4, 4196.3, 0.0); (515189.5, 4823128.2, 1909.5, 4196.3, 0.0);
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(513389.5, 4823228.2, 1907.1, 4196.3, 0.0); (513489.5, 4823228.2, 1907.5, 4196.3, 0.0);
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(514389.5, 4823228.2, 1909.6, 4196.3, 0.0); (514489.5, 4823228.2, 1909.6, 4196.3, 0.0);
(514589.5, 4823228.2, 1909.3, 4196.3, 0.0); (514689.5, 4823228.2, 1909.5, 4196.3, 0.0);
(514789.5, 4823228.2, 1909.8, 4196.3, 0.0); (514889.5, 4823228.2, 1909.8, 4196.3, 0.0);
(514989.5, 4823228.2, 1909.6, 4196.3, 0.0); (515089.5, 4823228.2, 1909.4, 4196.3, 0.0);
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(515089.5, 4823328.2, 1909.9, 4196.3, 0.0); (515189.5, 4823328.2, 1910.0, 4196.3, 0.0);
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(514389.5, 4823428.2, 1910.1, 4196.3, 0.0); (514489.5, 4823428.2, 1910.1, 4196.3, 0.0);
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(514789.5, 4823428.2, 1910.3, 4196.3, 0.0); (514889.5, 4823428.2, 1910.5, 4196.3, 0.0);
(514989.5, 4823428.2, 1910.5, 4196.3, 0.0); (515089.5, 4823428.2, 1910.5, 4196.3, 0.0);
(515189.5, 4823428.2, 1910.5, 4196.3, 0.0); (513189.5, 4823528.2, 1908.3, 4196.3, 0.0);
(513289.5, 4823528.2, 1908.5, 4196.3, 0.0); (513389.5, 4823528.2, 1908.9, 4196.3, 0.0);
(513489.5, 4823528.2, 1909.4, 4196.3, 0.0); (513589.5, 4823528.2, 1909.5, 4196.3, 0.0);
(513689.5, 4823528.2, 1909.6, 4196.3, 0.0); (513789.5, 4823528.2, 1909.5, 4196.3, 0.0);
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 10
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(513889.5, 4823528.2, 1909.8, 4196.3, 0.0); (513989.5, 4823528.2, 1909.8, 4196.3, 0.0);
(514089.5, 4823528.2, 1909.9, 4196.3, 0.0); (514189.5, 4823528.2, 1910.0, 4196.3, 0.0);
(514289.5, 4823528.2, 1910.2, 4196.3, 0.0); (514389.5, 4823528.2, 1910.3, 4196.3, 0.0);
(514489.5, 4823528.2, 1910.4, 4196.3, 0.0); (514589.5, 4823528.2, 1910.5, 4196.3, 0.0);
(514689.5, 4823528.2, 1910.5, 4196.3, 0.0); (514789.5, 4823528.2, 1910.6, 4196.3, 0.0);
(514889.5, 4823528.2, 1910.8, 4196.3, 0.0); (514989.5, 4823528.2, 1910.9, 4196.3, 0.0);
(515089.5, 4823528.2, 1910.9, 4196.3, 0.0); (515189.5, 4823528.2, 1911.0, 4196.3, 0.0);
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 11
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: C:\Beework\KJAC2021.SFC Met Version: 22112
Profile file: C:\Beework\KJAC2021.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 24166 Upper air station no.: 24061
Name: JACKSON HOLE AIRPORT, WY Name: RIVERTON REGIONAL AIRPORT, WY
Year: 2021 Year: 2021

First 24 hours of scalar data
YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-O LEN Z0 BOWEN ALBEDO REF WS WD HT REF TA HT
- -
21 01 01 1 01 -21.5 0.249 -9.000 -9.000 -999. 299. 68.5 0.13 0.48 1.00 2.86 21. 10.0 262.0 2.0
21 01 01 1 02 -17.4 0.204 -9.000 -9.000 -999. 221. 45.6 0.13 0.48 1.00 2.36 18. 10.0 262.5 2.0
21 01 01 1 03 -21.4 0.249 -9.000 -9.000 -999. 299. 68.5 0.13 0.48 1.00 2.86 4. 10.0 262.5 2.0
21 01 01 1 04 -21.4 0.249 -9.000 -9.000 -999. 299. 68.5 0.13 0.48 1.00 2.86 3. 10.0 263.1 2.0
21 01 01 1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.10 0.48 1.00 0.00 0. 10.0 263.1 2.0
21 01 01 1 06 -16.2 0.189 -9.000 -9.000 -999. 197. 39.1 0.04 0.48 1.00 2.86 332. 10.0 263.1 2.0
21 01 01 1 07 -9.5 0.148 -9.000 -9.000 -999. 137. 24.8 0.13 0.48 1.00 1.76 35. 10.0 263.1 2.0
21 01 01 1 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.10 0.48 1.00 0.00 0. 10.0 263.1 2.0
21 01 01 1 09 -16.8 0.204 -9.000 -9.000 -999. 221. 45.7 0.13 0.48 0.77 2.36 47. 10.0 263.1 2.0
21 01 01 1 10 -7.8 0.153 -9.000 -9.000 -999. 144. 32.7 0.13 0.48 0.60 1.76 91. 10.0 263.1 2.0
21 01 01 1 11 -4.9 0.357 -9.000 -9.000 -999. 512. 663.5 0.13 0.48 0.54 3.86 94. 10.0 263.1 2.0
21 01 01 1 12 1.4 -9.000 -9.000 -9.000 17. -999. -99999.0 0.10 0.48 0.51 0.00 0. 10.0 269.2 2.0
21 01 01 1 13 21.6 0.250 0.355 0.008 59. 301. -52.3 0.15 0.48 0.51 2.36 183. 10.0 269.8 2.0
21 01 01 1 14 21.8 -9.000 -9.000 -9.000 119. -999. -99999.0 0.10 0.48 0.51 0.00 0. 10.0 270.9 2.0
21 01 01 1 15 6.7 -9.000 -9.000 -9.000 149. -999. -99999.0 0.10 0.48 0.54 0.00 0. 10.0 274.2 2.0
21 01 01 1 16 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.10 0.48 0.62 0.00 0. 10.0 268.1 2.0
21 01 01 1 17 -20.6 0.250 -9.000 -9.000 -999. 299. 68.6 0.13 0.48 0.81 2.86 21. 10.0 262.0 2.0
21 01 01 1 18 -25.6 0.295 -9.000 -9.000 -999. 385. 95.8 0.13 0.48 1.00 3.36 27. 10.0 259.2 2.0
21 01 01 1 19 -6.1 0.112 -9.000 -9.000 -999. 126. 16.4 0.04 0.48 1.00 1.76 344. 10.0 257.5 2.0
21 01 01 1 20 -38.1 0.433 -9.000 -9.000 -999. 685. 206.7 0.13 0.48 1.00 4.86 27. 10.0 256.4 2.0
21 01 01 1 21 -22.1 0.249 -9.000 -9.000 -999. 327. 68.3 0.13 0.48 1.00 2.86 30. 10.0 253.7 2.0
21 01 01 1 22 -34.3 0.387 -9.000 -9.000 -999. 578. 164.7 0.13 0.48 1.00 4.36 22. 10.0 254.2 2.0
21 01 01 1 23 -26.0 0.295 -9.000 -9.000 -999. 390. 95.8 0.13 0.48 1.00 3.36 20. 10.0 255.3 2.0
21 01 01 1 24 -26.0 0.295 -9.000 -9.000 -999. 385. 95.8 0.13 0.48 1.00 3.36 20. 10.0 255.3 2.0

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
21 01 01 01 10.0 1 21. 2.86 262.1 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 13

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
514362.90	4822983.40	0.63649	514326.55	4822961.18	0.69867
514290.20	4822938.97	0.74748	514253.85	4822916.75	0.76625
514217.50	4822894.53	0.73618	514181.15	4822872.32	0.67085
514144.80	4822850.10	0.59296	514131.24	4822803.78	0.72098
514117.69	4822757.46	0.92873	514104.13	4822711.14	1.31326
514090.57	4822664.81	1.95709	514077.01	4822618.49	2.42662
514063.46	4822572.17	2.07603	514049.90	4822525.85	2.09703
514036.34	4822479.53	1.34636	514022.79	4822433.21	0.95465
514009.23	4822386.89	0.75980	513995.67	4822340.56	0.62337
513982.11	4822294.24	0.52045	513968.56	4822247.92	0.43838
513955.00	4822201.60	0.36874	514004.59	4822201.60	0.44588
514054.18	4822201.60	0.46100	514103.76	4822201.60	0.47463
514153.35	4822201.60	0.49191	514202.94	4822201.60	0.48276
514252.53	4822201.60	0.35027	514302.11	4822201.60	0.24187
514351.70	4822201.60	0.20262	514352.40	4822250.46	0.26768
514353.10	4822299.33	0.37508	514353.80	4822348.19	0.58200
514354.50	4822397.05	0.97716	514355.20	4822445.91	1.56584
514355.90	4822494.78	2.05416	514356.60	4822543.64	2.88736
514357.30	4822592.50	3.76548	514358.00	4822641.36	3.25180
514358.70	4822690.23	2.63178	514359.40	4822739.09	2.17568
514360.10	4822787.95	1.70114	514360.80	4822836.81	1.30464
514361.50	4822885.68	1.00807	514362.20	4822934.54	0.79419
513189.50	4821528.20	0.01658	513289.50	4821528.20	0.02163
513389.50	4821528.20	0.03046	513489.50	4821528.20	0.04207
513589.50	4821528.20	0.04954	513689.50	4821528.20	0.04879
513789.50	4821528.20	0.04650	513889.50	4821528.20	0.04641
513989.50	4821528.20	0.05186	514089.50	4821528.20	0.05493
514189.50	4821528.20	0.05375	514289.50	4821528.20	0.04929
514389.50	4821528.20	0.03039	514489.50	4821528.20	0.02001
514589.50	4821528.20	0.01791	514689.50	4821528.20	0.01634
514789.50	4821528.20	0.01461	514889.50	4821528.20	0.01314
514989.50	4821528.20	0.01251	515089.50	4821528.20	0.01264
515189.50	4821528.20	0.01263	513189.50	4821628.20	0.01758
513289.50	4821628.20	0.02072	513389.50	4821628.20	0.02797
513489.50	4821628.20	0.04060	513589.50	4821628.20	0.05527
513689.50	4821628.20	0.06104	513789.50	4821628.20	0.05850
513889.50	4821628.20	0.05705	513989.50	4821628.20	0.06209
514089.50	4821628.20	0.06710	514189.50	4821628.20	0.06588
514289.50	4821628.20	0.05838	514389.50	4821628.20	0.03370
514489.50	4821628.20	0.02411	514589.50	4821628.20	0.02175

*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
514689.50	4821628.20	0.01941	514789.50	4821628.20	0.01714
514889.50	4821628.20	0.01583	514989.50	4821628.20	0.01569
515089.50	4821628.20	0.01560	515189.50	4821628.20	0.01486
513189.50	4821728.20	0.01936	513289.50	4821728.20	0.02197
513389.50	4821728.20	0.02669	513489.50	4821728.20	0.03751
513589.50	4821728.20	0.05606	513689.50	4821728.20	0.07361
513789.50	4821728.20	0.07586	513889.50	4821728.20	0.07268
513989.50	4821728.20	0.07642	514089.50	4821728.20	0.08395
514189.50	4821728.20	0.08285	514289.50	4821728.20	0.06997
514389.50	4821728.20	0.03859	514489.50	4821728.20	0.03007
514589.50	4821728.20	0.02678	514689.50	4821728.20	0.02331
514789.50	4821728.20	0.02085	514889.50	4821728.20	0.02017
514989.50	4821728.20	0.01991	515089.50	4821728.20	0.01890
515189.50	4821728.20	0.01806	513189.50	4821828.20	0.01898
513289.50	4821828.20	0.02380	513389.50	4821828.20	0.02829
513489.50	4821828.20	0.03571	513589.50	4821828.20	0.05275
513689.50	4821828.20	0.08051	513789.50	4821828.20	0.09893
513889.50	4821828.20	0.09669	513989.50	4821828.20	0.09773
514089.50	4821828.20	0.10823	514189.50	4821828.20	0.10765
514289.50	4821828.20	0.08503	514389.50	4821828.20	0.04660
514489.50	4821828.20	0.03863	514589.50	4821828.20	0.03337
514689.50	4821828.20	0.02886	514789.50	4821828.20	0.02709
514889.50	4821828.20	0.02644	514989.50	4821828.20	0.02499
515089.50	4821828.20	0.02395	515189.50	4821828.20	0.02355
513189.50	4821928.20	0.01747	513289.50	4821928.20	0.02274
513389.50	4821928.20	0.02998	513489.50	4821928.20	0.03780
513589.50	4821928.20	0.05016	513689.50	4821928.20	0.07869
513789.50	4821928.20	0.12045	513889.50	4821928.20	0.13478
513989.50	4821928.20	0.13182	514089.50	4821928.20	0.14512
514189.50	4821928.20	0.14598	514289.50	4821928.20	0.10547
514389.50	4821928.20	0.06050	514489.50	4821928.20	0.05089
514589.50	4821928.20	0.04266	514689.50	4821928.20	0.03847
514789.50	4821928.20	0.03695	514889.50	4821928.20	0.03470
514989.50	4821928.20	0.03314	515089.50	4821928.20	0.03171
515189.50	4821928.20	0.02881	513189.50	4822028.20	0.01804
513289.50	4822028.20	0.02173	513389.50	4822028.20	0.02828
513489.50	4822028.20	0.03905	513589.50	4822028.20	0.05293

513689.50 4822028.20 0.07523 513789.50 4822028.20 0.12734
513889.50 4822028.20 0.18753 513989.50 4822028.20 0.19166
514089.50 4822028.20 0.20539 514189.50 4822028.20 0.20982
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 15
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC
- -
514289.50 4822028.20 0.13542 514389.50 4822028.20 0.08487
514489.50 4822028.20 0.06897 514589.50 4822028.20 0.05897
514689.50 4822028.20 0.05543 514789.50 4822028.20 0.05136
514889.50 4822028.20 0.04813 514989.50 4822028.20 0.04382
515089.50 4822028.20 0.03781 515189.50 4822028.20 0.03279
513189.50 4822128.20 0.01982 513289.50 4822128.20 0.02361
513389.50 4822128.20 0.02878 513489.50 4822128.20 0.03734
513589.50 4822128.20 0.05327 513689.50 4822128.20 0.07892
513789.50 4822128.20 0.12404 513889.50 4822128.20 0.22887
513989.50 4822128.20 0.30440 514089.50 4822128.20 0.31502
514189.50 4822128.20 0.32777 514289.50 4822128.20 0.18668
514389.50 4822128.20 0.12717 514489.50 4822128.20 0.10074
514589.50 4822128.20 0.09153 514689.50 4822128.20 0.08296
514789.50 4822128.20 0.07433 514889.50 4822128.20 0.06277
514989.50 4822128.20 0.05245 515089.50 4822128.20 0.04511
515189.50 4822128.20 0.03841 513189.50 4822228.20 0.02105
513289.50 4822228.20 0.02560 513389.50 4822228.20 0.03188
513489.50 4822228.20 0.04061 513589.50 4822228.20 0.05382
513689.50 4822228.20 0.07851 513789.50 4822228.20 0.12894
513889.50 4822228.20 0.23585 514389.50 4822228.20 0.20842
514489.50 4822228.20 0.17427 514589.50 4822228.20 0.15072
514689.50 4822228.20 0.12339 514789.50 4822228.20 0.09728
514889.50 4822228.20 0.07786 514989.50 4822228.20 0.06143
515089.50 4822228.20 0.04794 515189.50 4822228.20 0.03815
513189.50 4822328.20 0.02420 513289.50 4822328.20 0.02882
513389.50 4822328.20 0.03543 513489.50 4822328.20 0.04538
513589.50 4822328.20 0.06097 513689.50 4822328.20 0.08642
513789.50 4822328.20 0.13336 513889.50 4822328.20 0.24612
513989.50 4822328.20 0.57823 514389.50 4822328.20 0.43927
514489.50 4822328.20 0.32946 514589.50 4822328.20 0.23188
514689.50 4822328.20 0.16383 514789.50 4822328.20 0.11474
514889.50 4822328.20 0.08312 514989.50 4822328.20 0.06328
515089.50 4822328.20 0.04995 515189.50 4822328.20 0.04035
513189.50 4822428.20 0.03207 513289.50 4822428.20 0.03824

513389.50 4822428.20 0.04669 513489.50 4822428.20 0.05879
513589.50 4822428.20 0.07721 513689.50 4822428.20 0.10768
513789.50 4822428.20 0.16415 513889.50 4822428.20 0.28725
513989.50 4822428.20 0.64732 514389.50 4822428.20 1.03634
514489.50 4822428.20 0.51342 514589.50 4822428.20 0.28809
514689.50 4822428.20 0.18373 514789.50 4822428.20 0.12708
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 16
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC
- -
514889.50 4822428.20 0.09266 514989.50 4822428.20 0.07024
515089.50 4822428.20 0.05503 515189.50 4822428.20 0.04414
513189.50 4822528.20 0.03938 513289.50 4822528.20 0.04786
513389.50 4822528.20 0.05974 513489.50 4822528.20 0.07720
513589.50 4822528.20 0.10429 513689.50 4822528.20 0.14970
513789.50 4822528.20 0.23468 513889.50 4822528.20 0.42415
513989.50 4822528.20 0.98587 514389.50 4822528.20 1.72291
514489.50 4822528.20 0.70455 514589.50 4822528.20 0.37270
514689.50 4822528.20 0.22712 514789.50 4822528.20 0.15150
514889.50 4822528.20 0.10763 514989.50 4822528.20 0.07996
515089.50 4822528.20 0.06163 515189.50 4822528.20 0.04874
513189.50 4822628.20 0.03834 513289.50 4822628.20 0.04565
513389.50 4822628.20 0.05546 513489.50 4822628.20 0.06917
513589.50 4822628.20 0.08908 513689.50 4822628.20 0.11982
513789.50 4822628.20 0.17315 513889.50 4822628.20 0.28736
513989.50 4822628.20 0.69764 514389.50 4822628.20 2.59409
514489.50 4822628.20 1.08081 514589.50 4822628.20 0.53536
514689.50 4822628.20 0.30728 514789.50 4822628.20 0.19524
514889.50 4822628.20 0.13330 514989.50 4822628.20 0.09603
515089.50 4822628.20 0.07218 515189.50 4822628.20 0.05595
513189.50 4822728.20 0.02844 513289.50 4822728.20 0.03228
513389.50 4822728.20 0.03748 513489.50 4822728.20 0.04512
513589.50 4822728.20 0.05738 513689.50 4822728.20 0.08229
513789.50 4822728.20 0.14496 513889.50 4822728.20 0.31293
513989.50 4822728.20 0.64352 514089.50 4822728.20 1.05710
514389.50 4822728.20 1.83681 514489.50 4822728.20 0.98762
514589.50 4822728.20 0.61693 514689.50 4822728.20 0.37974
514789.50 4822728.20 0.24394 514889.50 4822728.20 0.16696
514989.50 4822728.20 0.12022 515089.50 4822728.20 0.08969
515189.50 4822728.20 0.06878 513189.50 4822828.20 0.01983
513289.50 4822828.20 0.02294 513389.50 4822828.20 0.02821

513489.50 4822828.20 0.03754 513589.50 4822828.20 0.05649
513689.50 4822828.20 0.09932 513789.50 4822828.20 0.17484
513889.50 4822828.20 0.27569 513989.50 4822828.20 0.40019
514089.50 4822828.20 0.50052 514389.50 4822828.20 1.27256
514489.50 4822828.20 0.81324 514589.50 4822828.20 0.50356
514689.50 4822828.20 0.36195 514789.50 4822828.20 0.26488
514889.50 4822828.20 0.18733 514989.50 4822828.20 0.13506
515089.50 4822828.20 0.10131 515189.50 4822828.20 0.07874
513189.50 4822928.20 0.01676 513289.50 4822928.20 0.02121
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 17
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC
- -
513389.50 4822928.20 0.02954 513489.50 4822928.20 0.04580
513589.50 4822928.20 0.07415 513689.50 4822928.20 0.10959
513789.50 4822928.20 0.15139 513889.50 4822928.20 0.20858
513989.50 4822928.20 0.23936 514089.50 4822928.20 0.29426
514189.50 4822928.20 0.51456 514389.50 4822928.20 0.79723
514489.50 4822928.20 0.65868 514589.50 4822928.20 0.45253
514689.50 4822928.20 0.30659 514789.50 4822928.20 0.22991
514889.50 4822928.20 0.18370 514989.50 4822928.20 0.14445
515089.50 4822928.20 0.11122 515189.50 4822928.20 0.08582
513189.50 4823028.20 0.01818 513289.50 4823028.20 0.02594
513389.50 4823028.20 0.03915 513489.50 4823028.20 0.05709
513589.50 4823028.20 0.07451 513689.50 4823028.20 0.09555
513789.50 4823028.20 0.12722 513889.50 4823028.20 0.14434
513989.50 4823028.20 0.15625 514089.50 4823028.20 0.19616
514189.50 4823028.20 0.31921 514289.50 4823028.20 0.48027
514389.50 4823028.20 0.52575 514489.50 4823028.20 0.47904
514589.50 4823028.20 0.39577 514689.50 4823028.20 0.28650
514789.50 4823028.20 0.20656 514889.50 4823028.20 0.15892
514989.50 4823028.20 0.13114 515089.50 4823028.20 0.11059
515189.50 4823028.20 0.09130 513189.50 4823128.20 0.02379
513289.50 4823128.20 0.03387 513389.50 4823128.20 0.04487
513489.50 4823128.20 0.05395 513589.50 4823128.20 0.06603
513689.50 4823128.20 0.08548 513789.50 4823128.20 0.09801
513889.50 4823128.20 0.10172 513989.50 4823128.20 0.10948
514089.50 4823128.20 0.14077 514189.50 4823128.20 0.21527
514289.50 4823128.20 0.31640 514389.50 4823128.20 0.36361
514489.50 4823128.20 0.35022 514589.50 4823128.20 0.31576
514689.50 4823128.20 0.26178 514789.50 4823128.20 0.19690

514889.50 4823128.20 0.14876 514989.50 4823128.20 0.11731
515089.50 4823128.20 0.09780 515189.50 4823128.20 0.08496
513189.50 4823228.20 0.02937 513289.50 4823228.20 0.03595
513389.50 4823228.20 0.04094 513489.50 4823228.20 0.04858
513589.50 4823228.20 0.06155 513689.50 4823228.20 0.07149
513789.50 4823228.20 0.07272 513889.50 4823228.20 0.07600
513989.50 4823228.20 0.07978 514089.50 4823228.20 0.10398
514189.50 4823228.20 0.15413 514289.50 4823228.20 0.22149
514389.50 4823228.20 0.26162 514489.50 4823228.20 0.26416
514589.50 4823228.20 0.24492 514689.50 4823228.20 0.22245
514789.50 4823228.20 0.18496 514889.50 4823228.20 0.14333
514989.50 4823228.20 0.11225 515089.50 4823228.20 0.09065
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 18
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC
- -
515189.50 4823228.20 0.07602 513189.50 4823328.20 0.02940
513289.50 4823328.20 0.03227 513389.50 4823328.20 0.03747
513489.50 4823328.20 0.04657 513589.50 4823328.20 0.05667
513689.50 4823328.20 0.05648 513789.50 4823328.20 0.05591
513889.50 4823328.20 0.05849 513989.50 4823328.20 0.06166
514089.50 4823328.20 0.08093 514189.50 4823328.20 0.11556
514289.50 4823328.20 0.16257 514389.50 4823328.20 0.19485
514489.50 4823328.20 0.20364 514589.50 4823328.20 0.19443
514689.50 4823328.20 0.18033 514789.50 4823328.20 0.16448
514889.50 4823328.20 0.13709 514989.50 4823328.20 0.10884
515089.50 4823328.20 0.08764 515189.50 4823328.20 0.07233
513189.50 4823428.20 0.02622 513289.50 4823428.20 0.02998
513389.50 4823428.20 0.03701 513489.50 4823428.20 0.04500
513589.50 4823428.20 0.04635 513689.50 4823428.20 0.04342
513789.50 4823428.20 0.04561 513889.50 4823428.20 0.04552
513989.50 4823428.20 0.04991 514089.50 4823428.20 0.06485
514189.50 4823428.20 0.08976 514289.50 4823428.20 0.12387
514389.50 4823428.20 0.14940 514489.50 4823428.20 0.15996
514589.50 4823428.20 0.15756 514689.50 4823428.20 0.14720
514789.50 4823428.20 0.13845 514889.50 4823428.20 0.12607
514989.50 4823428.20 0.10548 515089.50 4823428.20 0.08538
515189.50 4823428.20 0.07029 513189.50 4823528.20 0.02453
513289.50 4823528.20 0.02993 513389.50 4823528.20 0.03653
513489.50 4823528.20 0.03907 513589.50 4823528.20 0.03611
513689.50 4823528.20 0.03585 513789.50 4823528.20 0.03766

513889.50 4823528.20 0.03632 513989.50 4823528.20 0.04165
514089.50 4823528.20 0.05309 514189.50 4823528.20 0.07168
514289.50 4823528.20 0.09730 514389.50 4823528.20 0.11749
514489.50 4823528.20 0.12798 514589.50 4823528.20 0.12921
514689.50 4823528.20 0.12302 514789.50 4823528.20 0.11523
514889.50 4823528.20 0.10981 514989.50 4823528.20 0.09944
515089.50 4823528.20 0.08358 515189.50 4823528.20 0.06876
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 19
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
514362.90 4822983.40 37.83379 (21012112) 514326.55 4822961.18 48.89682 (21012212)
514290.20 4822938.97 75.05863 (21012212) 514253.85 4822916.75 72.48769 (21012212)
514217.50 4822894.53 77.68122 (21120914) 514181.15 4822872.32 70.99169 (21021513)
514144.80 4822850.10 112.05828 (21020215) 514131.24 4822803.78 124.61808 (21020215)
514117.69 4822757.46 280.53206 (21010715) 514104.13 4822711.14 437.95306 (21010715)
514090.57 4822664.81 812.23369 (21011010) 514077.01 4822618.49 739.83862 (21011011)
514063.46 4822572.17 301.83146 (21121910) 514049.90 4822525.85 1095.17573 (21010110)
514036.34 4822479.53 437.88925 (21011711) 514022.79 4822433.21 225.42852 (21011710)
514009.23 4822386.89 242.01355 (21012015) 513995.67 4822340.56 148.99390 (21011710)
513982.11 4822294.24 111.38204 (21012010) 513968.56 4822247.92 108.57642 (21012010)
513955.00 4822201.60 96.31583 (21012010) 514004.59 4822201.60 101.58083 (21012111)
514054.18 4822201.60 115.13702 (21012210) 514103.76 4822201.60 172.84796 (21010410)
514153.35 4822201.60 324.89617 (21010710) 514202.94 4822201.60 581.94350 (21012410)
514252.53 4822201.60 483.57501 (21012410) 514302.11 4822201.60 52.65730 (21121711)
514351.70 4822201.60 44.62644 (21080210) 514352.40 4822250.46 49.98012 (21101115)
514353.10 4822299.33 77.44320 (21011115) 514353.80 4822348.19 170.38254 (21011115)
514354.50 4822397.05 216.23626 (21021615) 514355.20 4822445.91 445.53254 (21010712)
514355.90 4822494.78 198.16441 (21111213) 514356.60 4822543.64 477.95496 (21121315)
514357.30 4822592.50 426.46251 (21120515) 514358.00 4822641.36 266.05383 (21012912)
514358.70 4822690.23 326.80077 (21010215) 514359.40 4822739.09 339.72769 (21010215)
514360.10 4822787.95 194.20307 (21010215) 514360.80 4822836.81 101.09797 (21010510)
514361.50 4822885.68 67.85085 (21012112) 514362.20 4822934.54 53.92863 (21012112)
513189.50 4821528.20 8.48305 (21011710) 513289.50 4821528.20 9.05067 (21012010)
513389.50 4821528.20 15.17831 (21012010) 513489.50 4821528.20 19.20715 (21013110)
513589.50 4821528.20 17.41310 (21012111) 513689.50 4821528.20 19.98599 (21012210)
513789.50 4821528.20 21.52135 (21012210) 513889.50 4821528.20 18.35518 (21121411)
513989.50 4821528.20 42.92733 (21010410) 514089.50 4821528.20 66.97189 (21010710)
514189.50 4821528.20 55.55121 (21010710) 514289.50 4821528.20 146.90193 (21012410)
514389.50 4821528.20 66.21421 (21012410) 514489.50 4821528.20 6.98993 (21121711)

514589.50 4821528.20 7.24613 (21121711) 514689.50 4821528.20 5.78957 (21080210)
514789.50 4821528.20 4.39043 (21101115) 514889.50 4821528.20 3.77119 (21022715)
514989.50 4821528.20 7.53070 (21011115) 515089.50 4821528.20 11.87946 (21011115)
515189.50 4821528.20 10.41839 (21011115) 513189.50 4821628.20 13.97079 (21011710)
513289.50 4821628.20 10.22685 (21011710) 513389.50 4821628.20 11.65053 (21012010)
513489.50 4821628.20 19.18664 (21012010) 513589.50 4821628.20 22.29124 (21012010)
513689.50 4821628.20 18.80135 (21011510) 513789.50 4821628.20 25.80830 (21012210)
513889.50 4821628.20 19.86888 (21012210) 513989.50 4821628.20 42.65818 (21010410)
514089.50 4821628.20 75.07801 (21010710) 514189.50 4821628.20 68.06761 (21012410)
514289.50 4821628.20 170.39651 (21012410) 514389.50 4821628.20 54.79724 (21012410)
514489.50 4821628.20 9.04567 (21121711) 514589.50 4821628.20 7.32508 (21121711)
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 20
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
514689.50 4821628.20 5.73866 (21080210) 514789.50 4821628.20 4.66492 (21022715)
514889.50 4821628.20 7.24736 (21011115) 514989.50 4821628.20 12.87824 (21011115)
515089.50 4821628.20 11.50362 (21011115) 515189.50 4821628.20 10.20043 (21121713)
513189.50 4821728.20 18.15131 (21011710) 513289.50 4821728.20 17.09557 (21011710)
513389.50 4821728.20 12.57950 (21011710) 513489.50 4821728.20 15.36705 (21012010)
513589.50 4821728.20 24.51363 (21012010) 513689.50 4821728.20 25.25150 (21012010)
513789.50 4821728.20 27.80256 (21012210) 513889.50 4821728.20 28.29313 (21012210)
513989.50 4821728.20 40.18108 (21010410) 514089.50 4821728.20 84.01612 (21010710)
514189.50 4821728.20 85.43126 (21012410) 514289.50 4821728.20 195.40977 (21012410)
514389.50 4821728.20 40.16035 (21012410) 514489.50 4821728.20 11.03710 (21121711)
514589.50 4821728.20 8.55318 (21080210) 514689.50 4821728.20 6.44512 (21101115)
514789.50 4821728.20 6.82815 (21011115) 514889.50 4821728.20 14.22165 (21011115)
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515189.50 4821728.20 7.76320 (21021615) 513189.50 4821828.20 17.57976 (21011710)
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513689.50 4821828.20 31.50594 (21012010) 513789.50 4821828.20 27.61655 (21012111)
513889.50 4821828.20 37.23949 (21012210) 513989.50 4821828.20 34.72973 (21010410)
514089.50 4821828.20 93.50700 (21010410) 514189.50 4821828.20 109.73015 (21012410)
514289.50 4821828.20 218.55687 (21012410) 514389.50 4821828.20 24.38862 (21012410)
514489.50 4821828.20 12.14985 (21121711) 514589.50 4821828.20 9.14792 (21101115)
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514889.50 4821828.20 15.26320 (21011115) 514989.50 4821828.20 13.84697 (21121713)
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513189.50 4821928.20 11.86459 (21011710) 513289.50 4821928.20 18.97503 (21011710)

513389.50 4821928.20 25.65298 (21011710) 513489.50 4821928.20 27.32051 (21011710)
513589.50 4821928.20 20.67095 (21011710) 513689.50 4821928.20 29.44768 (21012010)
513789.50 4821928.20 40.19542 (21012010) 513889.50 4821928.20 42.64091 (21012210)
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514089.50 4822028.20 126.16484 (21010410) 514189.50 4822028.20 201.71501 (21012410)
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 21
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
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514689.50 4822328.20 95.12080 (21010712) 514789.50 4822328.20 47.89620 (21010712)
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*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
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513589.50 4822628.20 63.40574 (21010110) 513689.50 4822628.20 62.56667 (21010110)
513789.50 4822628.20 56.42357 (21121910) 513889.50 4822628.20 69.35953 (21121910)
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513189.50 4822728.20 14.84630 (21121910) 513289.50 4822728.20 16.93007 (21121910)
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513189.50 4822928.20 4.60263 (21121910) 513289.50 4822928.20 7.12969 (21012413)
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 23
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
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514789.50 4823028.20 28.56897 (21122510) 514889.50 4823028.20 19.57457 (21122510)
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*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 24
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
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514989.50 4823428.20 45.52677 (21010215) 515089.50 4823428.20 23.99719 (21010215)
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514289.50 4823528.20 14.97986 (21121010) 514389.50 4823528.20 17.57239 (21012212)
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514689.50 4823528.20 10.72022 (21012112) 514789.50 4823528.20 15.73424 (21010510)
514889.50 4823528.20 30.98276 (21010510) 514989.50 4823528.20 43.09137 (21010215)
515089.50 4823528.20 37.88475 (21010215) 515189.50 4823528.20 19.83961 (21010215)
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 25
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
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514290.20 4822938.97 37.10781 (21121010) 514253.85 4822916.75 56.46447 (21120914)
514217.50 4822894.53 73.11159 (21012814) 514181.15 4822872.32 63.44644 (21021514)
514144.80 4822850.10 81.33307 (21010615) 514131.24 4822803.78 115.25818 (21010715)
514117.69 4822757.46 143.90498 (21012213) 514104.13 4822711.14 266.46325 (21121810)
514090.57 4822664.81 732.45519 (21121810) 514077.01 4822618.49 720.37090 (21021510)
514063.46 4822572.17 273.33491 (21012412) 514049.90 4822525.85 500.72706 (21010411)
514036.34 4822479.53 268.95322 (21012011) 514022.79 4822433.21 194.53549 (21012015)
514009.23 4822386.89 231.11729 (21011710) 513995.67 4822340.56 126.75038 (21012015)
513982.11 4822294.24 100.97753 (21121014) 513968.56 4822247.92 80.07531 (21121014)
513955.00 4822201.60 81.79842 (21012111) 514004.59 4822201.60 91.43909 (21020211)
514054.18 4822201.60 92.94021 (21011910) 514103.76 4822201.60 130.47731 (21010710)
514153.35 4822201.60 284.09306 (21010410) 514202.94 4822201.60 249.20934 (21010710)

514252.53 4822201.60 57.20336 (21010710) 514302.11 4822201.60 51.05803 (21012410)
514351.70 4822201.60 36.93673 (21101115) 514352.40 4822250.46 48.96356 (21080210)
514353.10 4822299.33 58.99565 (21022715) 514353.80 4822348.19 159.45890 (21121713)
514354.50 4822397.05 210.21073 (21112710) 514355.20 4822445.91 300.07218 (21112710)
514355.90 4822494.78 194.30246 (21121012) 514356.60 4822543.64 253.05392 (21012913)
514357.30 4822592.50 314.10939 (21020313) 514358.00 4822641.36 209.75411 (21021911)
514358.70 4822690.23 218.89665 (21010510) 514359.40 4822739.09 251.38079 (21010510)
514360.10 4822787.95 179.77582 (21010510) 514360.80 4822836.81 71.81781 (21010215)
514361.50 4822885.68 56.26960 (21012915) 514362.20 4822934.54 45.10527 (21012915)
513189.50 4821528.20 5.31337 (21011511) 513289.50 4821528.20 8.08456 (21121014)
513389.50 4821528.20 9.77032 (21013110) 513489.50 4821528.20 19.11067 (21012010)
513589.50 4821528.20 16.92619 (21012010) 513689.50 4821528.20 17.38940 (21011510)
513789.50 4821528.20 16.81287 (21011910) 513889.50 4821528.20 14.53316 (21011910)
513989.50 4821528.20 30.49678 (21010710) 514089.50 4821528.20 56.20522 (21010410)
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514389.50 4821528.20 5.21743 (21110312) 514489.50 4821528.20 5.76395 (21012410)
514589.50 4821528.20 5.06843 (21042311) 514689.50 4821528.20 4.23327 (21121711)
514789.50 4821528.20 3.63811 (21101114) 514889.50 4821528.20 3.34947 (21101114)
514989.50 4821528.20 3.10855 (21081811) 515089.50 4821528.20 4.11849 (21121713)
515189.50 4821528.20 8.39356 (21121713) 513189.50 4821628.20 8.87008 (21012015)
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514489.50 4821628.20 6.48044 (21042613) 514589.50 4821628.20 6.72547 (21080210)
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 26
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
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513189.50 4821728.20 16.89614 (21012015) 513289.50 4821728.20 11.54034 (21012015)
513389.50 4821728.20 7.68935 (21011511) 513489.50 4821728.20 12.56345 (21121014)
513589.50 4821728.20 18.94452 (21013110) 513689.50 4821728.20 24.48875 (21012111)
513789.50 4821728.20 24.17774 (21011510) 513889.50 4821728.20 23.91938 (21011910)
513989.50 4821728.20 28.98517 (21121411) 514089.50 4821728.20 78.76971 (21010410)
514189.50 4821728.20 78.41492 (21010710) 514289.50 4821728.20 18.79805 (21010710)

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514589.50 4821728.20 6.55875 (21101115) 514689.50 4821728.20 5.56920 (21101114)
514789.50 4821728.20 5.30958 (21022715) 514889.50 4821728.20 5.30783 (21121713)
514989.50 4821728.20 12.19587 (21121713) 515089.50 4821728.20 6.52053 (21033010)
515189.50 4821728.20 6.10821 (21033010) 513189.50 4821828.20 13.10612 (21012015)
513289.50 4821828.20 19.48469 (21012015) 513389.50 4821828.20 15.39253 (21012015)
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513689.50 4821828.20 25.67646 (21013110) 513789.50 4821828.20 26.86674 (21012010)
513889.50 4821828.20 27.30800 (21011910) 513989.50 4821828.20 33.88124 (21121411)
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514289.50 4821828.20 19.19829 (21010710) 514389.50 4821828.20 12.37284 (21121711)
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514689.50 4821828.20 6.35129 (21101114) 514789.50 4821828.20 6.08571 (21081811)
514889.50 4821828.20 15.26319 (21121713) 514989.50 4821828.20 8.01162 (21033010)
515089.50 4821828.20 7.88177 (21121013) 515189.50 4821828.20 10.22788 (21021615)
513189.50 4821928.20 5.94912 (21011612) 513289.50 4821928.20 11.44637 (21012015)
513389.50 4821928.20 22.06367 (21012015) 513489.50 4821928.20 21.15963 (21012015)
513589.50 4821928.20 12.54203 (21011511) 513689.50 4821928.20 20.93577 (21121014)
513789.50 4821928.20 34.65791 (21012111) 513889.50 4821928.20 37.18586 (21011510)
513989.50 4821928.20 36.50891 (21121411) 514089.50 4821928.20 101.71867 (21010710)
514189.50 4821928.20 121.36285 (21010710) 514289.50 4821928.20 18.91086 (21010710)
514389.50 4821928.20 13.22867 (21042613) 514489.50 4821928.20 11.63458 (21101115)
514589.50 4821928.20 9.91557 (21101115) 514689.50 4821928.20 7.97282 (21081811)
514789.50 4821928.20 18.88899 (21011115) 514889.50 4821928.20 10.18738 (21033010)
514989.50 4821928.20 11.97912 (21112710) 515089.50 4821928.20 10.99070 (21021615)
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513289.50 4822028.20 8.30126 (21011612) 513389.50 4822028.20 8.86817 (21012015)
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513889.50 4822028.20 49.08751 (21012010) 513989.50 4822028.20 48.31636 (21011910)
514089.50 4822028.20 106.14019 (21010710) 514189.50 4822028.20 159.74477 (21010710)
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
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514889.50 4822028.20 18.50168 (21021615) 514989.50 4822028.20 15.56157 (21120510)
515089.50 4822028.20 18.38904 (21120510) 515189.50 4822028.20 12.22942 (21010712)

513189.50 4822128.20 9.46886 (21010512) 513289.50 4822128.20 9.50313 (21010512)
513389.50 4822128.20 10.24491 (21011612) 513489.50 4822128.20 11.97680 (21011612)
513589.50 4822128.20 23.97872 (21012015) 513689.50 4822128.20 43.51879 (21012015)
513789.50 4822128.20 27.12081 (21012010) 513889.50 4822128.20 50.33418 (21013110)
513989.50 4822128.20 69.07591 (21011510) 514089.50 4822128.20 99.76615 (21010710)
514189.50 4822128.20 223.06924 (21010710) 514289.50 4822128.20 29.49477 (21121711)
514389.50 4822128.20 25.38232 (21101115) 514489.50 4822128.20 20.18378 (21022715)
514589.50 4822128.20 36.62881 (21011115) 514689.50 4822128.20 24.69098 (21121713)
514789.50 4822128.20 22.45772 (21021615) 514889.50 4822128.20 25.57174 (21120510)
514989.50 4822128.20 18.14966 (21010712) 515089.50 4822128.20 18.27496 (21120510)
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513289.50 4822228.20 12.36587 (21012011) 513389.50 4822228.20 15.95522 (21011711)
513489.50 4822228.20 16.34129 (21010512) 513589.50 4822228.20 16.44923 (21011612)
513689.50 4822228.20 19.71518 (21012015) 513789.50 4822228.20 62.94168 (21012015)
513889.50 4822228.20 46.57689 (21121014) 514389.50 4822228.20 37.33328 (21022715)
514489.50 4822228.20 60.60789 (21011115) 514589.50 4822228.20 45.66787 (21112710)
514689.50 4822228.20 38.79532 (21120510) 514789.50 4822228.20 32.19617 (21010712)
514889.50 4822228.20 25.55885 (21120510) 514989.50 4822228.20 14.86015 (21120511)
515089.50 4822228.20 9.47208 (21121012) 515189.50 4822228.20 8.91604 (21121012)
513189.50 4822328.20 10.64332 (21012414) 513289.50 4822328.20 12.32638 (21012414)
513389.50 4822328.20 13.83652 (21012414) 513489.50 4822328.20 14.73098 (21012414)
513589.50 4822328.20 23.45838 (21012011) 513689.50 4822328.20 32.41459 (21011711)
513789.50 4822328.20 35.04361 (21011710) 513889.50 4822328.20 86.65181 (21012015)
513989.50 4822328.20 101.45976 (21012015) 514389.50 4822328.20 125.21805 (21011115)
514489.50 4822328.20 83.75390 (21021615) 514589.50 4822328.20 69.91979 (21120510)
514689.50 4822328.20 39.00681 (21120510) 514789.50 4822328.20 20.28331 (21121012)
514889.50 4822328.20 14.73650 (21010712) 514989.50 4822328.20 10.90203 (21121715)
515089.50 4822328.20 8.83423 (21121012) 515189.50 4822328.20 6.47299 (21111213)
513189.50 4822428.20 20.05327 (21010411) 513289.50 4822428.20 22.53124 (21010411)
513389.50 4822428.20 25.36799 (21010411) 513489.50 4822428.20 28.50803 (21010411)
513589.50 4822428.20 39.43781 (21011711) 513689.50 4822428.20 40.36643 (21010110)
513789.50 4822428.20 39.91436 (21012414) 513889.50 4822428.20 80.18698 (21012011)
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514489.50 4822428.20 74.41443 (21120511) 514589.50 4822428.20 36.25362 (21121715)
514689.50 4822428.20 24.13721 (21121012) 514789.50 4822428.20 15.82411 (21111214)
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 28
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
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514489.50 4822528.20 97.78991 (21121315) 514589.50 4822528.20 56.09749 (21121315)
514689.50 4822528.20 36.11869 (21121315) 514789.50 4822528.20 25.02111 (21121315)
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515089.50 4822528.20 11.50872 (21010514) 515189.50 4822528.20 9.54431 (21010514)
513189.50 4822628.20 16.95604 (21012412) 513289.50 4822628.20 20.85406 (21012412)
513389.50 4822628.20 25.83785 (21012412) 513489.50 4822628.20 31.97707 (21012412)
513589.50 4822628.20 38.87534 (21012412) 513689.50 4822628.20 45.05930 (21012412)
513789.50 4822628.20 55.05475 (21010110) 513889.50 4822628.20 53.00814 (21020115)
513989.50 4822628.20 131.17437 (21011712) 514389.50 4822628.20 231.31160 (21012912)
514489.50 4822628.20 104.54762 (21111910) 514589.50 4822628.20 85.40473 (21111910)
514689.50 4822628.20 74.54881 (21121315) 514789.50 4822628.20 39.32846 (21120515)
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515089.50 4822628.20 13.74248 (21012913) 515189.50 4822628.20 11.04016 (21012913)
513189.50 4822728.20 14.33574 (21012412) 513289.50 4822728.20 13.28635 (21012412)
513389.50 4822728.20 11.44390 (21012412) 513489.50 4822728.20 12.92088 (21020115)
513589.50 4822728.20 15.48010 (21020115) 513689.50 4822728.20 16.36235 (21020115)
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*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 29
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
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515089.50 4822928.20 19.47395 (21121615) 515189.50 4822928.20 15.38365 (21120515)
513189.50 4823028.20 4.97118 (21021413) 513289.50 4823028.20 8.91570 (21021510)
513389.50 4823028.20 17.77272 (21011712) 513489.50 4823028.20 29.85409 (21011011)
513589.50 4823028.20 45.28157 (21021510) 513689.50 4823028.20 50.04254 (21011011)
513789.50 4823028.20 95.35298 (21121810) 513889.50 4823028.20 84.43454 (21011010)
513989.50 4823028.20 45.28184 (21012213) 514089.50 4823028.20 36.85063 (21121911)
514189.50 4823028.20 34.16479 (21021514) 514289.50 4823028.20 33.28386 (21121010)
514389.50 4823028.20 29.26577 (21012915) 514489.50 4823028.20 38.64980 (21010215)
514589.50 4823028.20 84.98356 (21010510) 514689.50 4823028.20 40.32939 (21010510)
514789.50 4823028.20 19.18423 (21012914) 514889.50 4823028.20 19.53085 (21122415)
514989.50 4823028.20 16.01911 (21121611) 515089.50 4823028.20 17.03444 (21012912)
515189.50 4823028.20 19.22761 (21121615) 513189.50 4823128.20 10.34575 (21011712)
513289.50 4823128.20 17.86162 (21011712) 513389.50 4823128.20 27.94841 (21011011)
513489.50 4823128.20 33.18993 (21021510) 513589.50 4823128.20 37.15009 (21011011)
513689.50 4823128.20 64.50042 (21121810) 513789.50 4823128.20 81.72346 (21121810)
513889.50 4823128.20 33.13594 (21121810) 513989.50 4823128.20 25.10660 (21021313)
514089.50 4823128.20 28.28673 (21010615) 514189.50 4823128.20 24.23950 (21021514)
514289.50 4823128.20 28.11634 (21121010) 514389.50 4823128.20 20.05320 (21012815)
514489.50 4823128.20 21.75582 (21012915) 514589.50 4823128.20 49.40858 (21010215)
514689.50 4823128.20 63.00948 (21010510) 514789.50 4823128.20 29.05533 (21010510)
514889.50 4823128.20 14.13440 (21012914) 514989.50 4823128.20 15.17196 (21122415)
515089.50 4823128.20 13.01605 (21121611) 515189.50 4823128.20 13.01037 (21110311)
513189.50 4823228.20 16.26794 (21011712) 513289.50 4823228.20 25.44073 (21011011)
513389.50 4823228.20 25.09796 (21021510) 513489.50 4823228.20 28.87419 (21011011)
513589.50 4823228.20 45.35449 (21121810) 513689.50 4823228.20 67.77431 (21121810)
513789.50 4823228.20 38.00815 (21011010) 513889.50 4823228.20 26.92498 (21012213)
513989.50 4823228.20 15.24785 (21121911) 514089.50 4823228.20 22.98740 (21010615)
514189.50 4823228.20 18.71537 (21021513) 514289.50 4823228.20 20.89326 (21120914)
514389.50 4823228.20 14.48740 (21012812) 514489.50 4823228.20 17.07936 (21012915)
514589.50 4823228.20 15.05963 (21020510) 514689.50 4823228.20 52.10712 (21010215)
514789.50 4823228.20 47.66777 (21010510) 514889.50 4823228.20 21.85024 (21010510)
514989.50 4823228.20 10.62607 (21012914) 515089.50 4823228.20 11.81669 (21122415)

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
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513289.50 4823328.20 19.48244 (21021510) 513389.50 4823328.20 23.20361 (21011011)
513489.50 4823328.20 32.97334 (21121810) 513589.50 4823328.20 63.05554 (21121810)
513689.50 4823328.20 45.33034 (21011010) 513789.50 4823328.20 18.29174 (21121011)
513889.50 4823328.20 19.82437 (21012213) 513989.50 4823328.20 14.62436 (21121911)
514089.50 4823328.20 18.56837 (21010615) 514189.50 4823328.20 14.85635 (21021513)
514289.50 4823328.20 17.81581 (21120914) 514389.50 4823328.20 11.23826 (21110310)
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514889.50 4823328.20 36.75511 (21010510) 514989.50 4823328.20 16.97180 (21010510)
515089.50 4823328.20 9.13768 (21010215) 515189.50 4823328.20 9.49357 (21122415)
513189.50 4823428.20 15.45675 (21021510) 513289.50 4823428.20 19.12488 (21011011)
513389.50 4823428.20 25.13946 (21121810) 513489.50 4823428.20 50.00907 (21121810)
513589.50 4823428.20 50.05213 (21011010) 513689.50 4823428.20 23.52512 (21010715)
513789.50 4823428.20 18.00921 (21012213) 513889.50 4823428.20 13.22838 (21021313)
513989.50 4823428.20 12.30740 (21020215) 514089.50 4823428.20 15.09723 (21010615)
514189.50 4823428.20 12.23610 (21021513) 514289.50 4823428.20 15.06435 (21120914)
514389.50 4823428.20 11.32218 (21121010) 514489.50 4823428.20 9.56122 (21012815)
514589.50 4823428.20 11.06030 (21012915) 514689.50 4823428.20 9.30061 (21020510)
514789.50 4823428.20 22.86280 (21010215) 514889.50 4823428.20 40.05478 (21010510)
514989.50 4823428.20 29.07149 (21010510) 515089.50 4823428.20 13.44372 (21010510)
515189.50 4823428.20 7.86978 (21010215) 513189.50 4823528.20 17.11759 (21121710)
513289.50 4823528.20 18.73434 (21121810) 513389.50 4823528.20 39.12928 (21121810)
513489.50 4823528.20 48.77019 (21121810) 513589.50 4823528.20 23.12216 (21011010)
513689.50 4823528.20 13.18574 (21121011) 513789.50 4823528.20 15.72466 (21012213)
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514289.50 4823528.20 13.07540 (21120914) 514389.50 4823528.20 11.06179 (21121010)
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514689.50 4823528.20 8.48072 (21012915) 514789.50 4823528.20 9.46935 (21020510)
514889.50 4823528.20 25.78768 (21010215) 514989.50 4823528.20 34.25508 (21010510)
515089.50 4823528.20 23.36796 (21010510) 515189.50 4823528.20 10.82205 (21010510)
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 31
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC

(YYMMDDHH)

- -

514362.90 4822983.40 22.53187 (21012212) 514326.55 4822961.18 24.68327 (21110215)
514290.20 4822938.97 26.56724 (21012115) 514253.85 4822916.75 33.37769 (21010113)
514217.50 4822894.53 41.62945 (21032210) 514181.15 4822872.32 49.60517 (21121010)
514144.80 4822850.10 39.31764 (21010715) 514131.24 4822803.78 54.22735 (21021313)
514117.69 4822757.46 79.49121 (21010412) 514104.13 4822711.14 171.36607 (21010815)
514090.57 4822664.81 220.13666 (21011011) 514077.01 4822618.49 329.51858 (21020212)
514063.46 4822572.17 182.10386 (21021413) 514049.90 4822525.85 253.99767 (21121712)
514036.34 4822479.53 138.20833 (21011612) 514022.79 4822433.21 117.54539 (21010512)
514009.23 4822386.89 84.92512 (21011915) 513995.67 4822340.56 80.53347 (21012610)
513982.11 4822294.24 61.44214 (21012610) 513968.56 4822247.92 57.38696 (21020110)
513955.00 4822201.60 50.41867 (21011510) 514004.59 4822201.60 54.87996 (21011910)
514054.18 4822201.60 43.20549 (21012111) 514103.76 4822201.60 44.23368 (21011510)
514153.35 4822201.60 40.54714 (21021310) 514202.94 4822201.60 27.52011 (21041611)
514252.53 4822201.60 32.90523 (21042613) 514302.11 4822201.60 27.92478 (21041211)
514351.70 4822201.60 23.36959 (21042613) 514352.40 4822250.46 31.41936 (21032913)
514353.10 4822299.33 36.07012 (21032913) 514353.80 4822348.19 51.86273 (21100715)
514354.50 4822397.05 101.80681 (21050210) 514355.20 4822445.91 135.42713 (21021615)
514355.90 4822494.78 151.29814 (21010515) 514356.60 4822543.64 181.86511 (21021613)
514357.30 4822592.50 226.81133 (21111912) 514358.00 4822641.36 169.01416 (21122415)
514358.70 4822690.23 101.73962 (21122415) 514359.40 4822739.09 83.79390 (21122510)
514360.10 4822787.95 58.23204 (21012811) 514360.80 4822836.81 48.83330 (21012113)
514361.50 4822885.68 33.02285 (21011310) 514362.20 4822934.54 26.59526 (21120215)
513189.50 4821528.20 3.23226 (21030210) 513289.50 4821528.20 3.04796 (21081810)
513389.50 4821528.20 5.14598 (21011614) 513489.50 4821528.20 7.18064 (21011510)
513589.50 4821528.20 7.13660 (21020110) 513689.50 4821528.20 5.42974 (21021210)
513789.50 4821528.20 5.45439 (21010811) 513889.50 4821528.20 5.73819 (21010710)
513989.50 4821528.20 5.20119 (21111212) 514089.50 4821528.20 4.83141 (21072910)
514189.50 4821528.20 3.11752 (21052110) 514289.50 4821528.20 4.14517 (21041611)
514389.50 4821528.20 3.12851 (21101915) 514489.50 4821528.20 3.07904 (21072815)
514589.50 4821528.20 2.86062 (21072815) 514689.50 4821528.20 2.66783 (21032915)
514789.50 4821528.20 2.18199 (21050811) 514889.50 4821528.20 2.16147 (21081811)
514989.50 4821528.20 1.63458 (21032615) 515089.50 4821528.20 1.29655 (21022715)
515189.50 4821528.20 1.39630 (21100715) 513189.50 4821628.20 3.36516 (21012415)
513289.50 4821628.20 3.58341 (21030210) 513389.50 4821628.20 3.82576 (21020210)
513489.50 4821628.20 6.53558 (21020110) 513589.50 4821628.20 9.81823 (21020110)
513689.50 4821628.20 9.04006 (21011910) 513789.50 4821628.20 6.55895 (21121411)
513889.50 4821628.20 6.89820 (21040610) 513989.50 4821628.20 7.52135 (21021310)
514089.50 4821628.20 5.51152 (21042610) 514189.50 4821628.20 3.83101 (21050311)
514289.50 4821628.20 5.26295 (21041611) 514389.50 4821628.20 4.34020 (21050311)
514489.50 4821628.20 3.33566 (21041211) 514589.50 4821628.20 3.06830 (21072815)

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
514689.50 4821628.20 3.10616 (21022715) 514789.50 4821628.20 2.28698 (21080210)
514889.50 4821628.20 2.13719 (21032615) 514989.50 4821628.20 1.68428 (21033010)
515089.50 4821628.20 1.78258 (21100715) 515189.50 4821628.20 2.08615 (21081811)
513189.50 4821728.20 3.20679 (21011915) 513289.50 4821728.20 3.88189 (21030210)
513389.50 4821728.20 4.23889 (21011614) 513489.50 4821728.20 5.59388 (21013110)
513589.50 4821728.20 9.52029 (21012110) 513689.50 4821728.20 11.69511 (21020110)
513789.50 4821728.20 7.97980 (21021210) 513889.50 4821728.20 7.67071 (21111211)
513989.50 4821728.20 8.82970 (21111212) 514089.50 4821728.20 6.72511 (21010810)
514189.50 4821728.20 5.00081 (21050311) 514289.50 4821728.20 6.76766 (21041611)
514389.50 4821728.20 5.23581 (21041611) 514489.50 4821728.20 4.52570 (21072815)
514589.50 4821728.20 4.28315 (21032915) 514689.50 4821728.20 3.27612 (21041515)
514789.50 4821728.20 2.89408 (21050811) 514889.50 4821728.20 2.35420 (21032915)
514989.50 4821728.20 2.35311 (21100715) 515089.50 4821728.20 2.45390 (21081811)
515189.50 4821728.20 2.95933 (21022714) 513189.50 4821828.20 3.17631 (21011915)
513289.50 4821828.20 3.90482 (21012610) 513389.50 4821828.20 4.46755 (21011915)
513489.50 4821828.20 5.42417 (21011614) 513589.50 4821828.20 8.21691 (21020210)
513689.50 4821828.20 13.32168 (21020210) 513789.50 4821828.20 12.82153 (21011910)
513889.50 4821828.20 10.22851 (21111210) 513989.50 4821828.20 11.15845 (21111212)
514089.50 4821828.20 8.62331 (21010810) 514189.50 4821828.20 6.72273 (21050311)
514289.50 4821828.20 8.81946 (21041611) 514389.50 4821828.20 6.32953 (21041612)
514489.50 4821828.20 5.17950 (21072815) 514589.50 4821828.20 4.60852 (21121711)
514689.50 4821828.20 3.96278 (21050811) 514789.50 4821828.20 3.50975 (21032915)
514889.50 4821828.20 3.01261 (21062414) 514989.50 4821828.20 3.04654 (21022714)
515089.50 4821828.20 3.32425 (21022314) 515189.50 4821828.20 3.57128 (21112411)
513189.50 4821928.20 3.50587 (21012015) 513289.50 4821928.20 4.15259 (21022812)
513389.50 4821928.20 4.40734 (21012610) 513489.50 4821928.20 6.02182 (21011915)
513589.50 4821928.20 7.97907 (21012015) 513689.50 4821928.20 11.49616 (21011614)
513789.50 4821928.20 20.06461 (21021211) 513889.50 4821928.20 13.21901 (21013110)
513989.50 4821928.20 12.91547 (21040610) 514089.50 4821928.20 11.35673 (21072910)
514189.50 4821928.20 9.01171 (21112515) 514289.50 4821928.20 10.66860 (21041612)
514389.50 4821928.20 8.57683 (21080611) 514489.50 4821928.20 7.46936 (21032913)
514589.50 4821928.20 5.45921 (21050811) 514689.50 4821928.20 5.38712 (21052513)
514789.50 4821928.20 3.94544 (21062414) 514889.50 4821928.20 4.47756 (21022714)
514989.50 4821928.20 4.77816 (21120510) 515089.50 4821928.20 4.27762 (21112413)
515189.50 4821928.20 4.19472 (21011412) 513189.50 4822028.20 3.20919 (21031810)
513289.50 4822028.20 3.31641 (21112115) 513389.50 4822028.20 4.50167 (21011915)
513489.50 4822028.20 5.21527 (21022812) 513589.50 4822028.20 8.48416 (21011915)
513689.50 4822028.20 12.55965 (21012015) 513789.50 4822028.20 19.02774 (21012111)
513889.50 4822028.20 26.05858 (21020110) 513989.50 4822028.20 17.57560 (21040610)
514089.50 4822028.20 20.60281 (21021310) 514189.50 4822028.20 12.86255 (21112515)
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 33
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
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514689.50 4822028.20 5.41876 (21062414) 514789.50 4822028.20 7.07726 (21112710)
514889.50 4822028.20 6.70840 (21112411) 514989.50 4822028.20 6.09733 (21011413)
515089.50 4822028.20 4.22262 (21011413) 515189.50 4822028.20 4.01370 (21112411)
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513589.50 4822128.20 8.79097 (21011915) 513689.50 4822128.20 12.49601 (21011915)
513789.50 4822128.20 21.02595 (21021710) 513889.50 4822128.20 34.20721 (21020211)
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514189.50 4822128.20 21.61974 (21121411) 514289.50 4822128.20 20.42629 (21041612)
514389.50 4822128.20 15.78771 (21032913) 514489.50 4822128.20 11.10267 (21050210)
514589.50 4822128.20 9.30636 (21021615) 514689.50 4822128.20 11.27064 (21050210)
514789.50 4822128.20 9.85334 (21011413) 514889.50 4822128.20 7.61382 (21121013)
514989.50 4822128.20 6.29539 (21112411) 515089.50 4822128.20 4.44427 (21032713)
515189.50 4822128.20 3.89070 (21032713) 513189.50 4822228.20 2.55141 (21021711)
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513489.50 4822228.20 5.40648 (21011710) 513589.50 4822228.20 7.58451 (21101910)
513689.50 4822228.20 11.47552 (21022812) 513789.50 4822228.20 17.62177 (21012610)
513889.50 4822228.20 35.82375 (21021710) 514389.50 4822228.20 24.90489 (21032913)
514489.50 4822228.20 18.32782 (21121013) 514589.50 4822228.20 19.02661 (21100715)
514689.50 4822228.20 16.72667 (21011412) 514789.50 4822228.20 10.97426 (21112411)
514889.50 4822228.20 7.33103 (21032713) 514989.50 4822228.20 5.90577 (21032713)
515089.50 4822228.20 5.95030 (21102315) 515189.50 4822228.20 5.11329 (21102714)
513189.50 4822328.20 3.54027 (21101810) 513289.50 4822328.20 4.11327 (21101810)
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514689.50 4822328.20 13.95630 (21032713) 514789.50 4822328.20 12.76733 (21102315)
514889.50 4822328.20 10.02852 (21102714) 514989.50 4822328.20 7.13169 (21032910)
515089.50 4822328.20 6.30724 (21032910) 515189.50 4822328.20 5.09301 (21101414)
513189.50 4822428.20 4.77689 (21010111) 513289.50 4822428.20 6.35002 (21012414)
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513589.50 4822428.20 8.33839 (21030510) 513689.50 4822428.20 12.81620 (21030510)
513789.50 4822428.20 23.30187 (21021415) 513889.50 4822428.20 30.89260 (21030510)
513989.50 4822428.20 71.31300 (21021710) 514389.50 4822428.20 90.05777 (21021615)
514489.50 4822428.20 44.56812 (21102315) 514589.50 4822428.20 28.96353 (21111213)
514689.50 4822428.20 18.72630 (21102315) 514789.50 4822428.20 12.37944 (21011715)
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00

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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
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*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 35
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
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*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
515189.50 4823228.20 5.33530 (21110311) 513189.50 4823328.20 5.28592 (21121814)
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*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

NETWORK
GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
- -

ALL 1ST HIGHEST VALUE IS 3.76548 AT (514357.30, 4822592.50, 1905.15, 4196.30, 0.00) DC
2ND HIGHEST VALUE IS 3.25180 AT (514358.00, 4822641.36, 1905.73, 4196.30, 0.00) DC
3RD HIGHEST VALUE IS 2.88736 AT (514356.60, 4822543.64, 1904.74, 4196.30, 0.00) DC
4TH HIGHEST VALUE IS 2.63178 AT (514358.70, 4822690.23, 1906.33, 4196.30, 0.00) DC
5TH HIGHEST VALUE IS 2.59409 AT (514389.50, 4822628.20, 1905.70, 4196.30, 0.00) DC
6TH HIGHEST VALUE IS 2.42662 AT (514077.01, 4822618.49, 1904.39, 4196.30, 0.00) DC
7TH HIGHEST VALUE IS 2.17568 AT (514359.40, 4822739.09, 1907.10, 4196.30, 0.00) DC
8TH HIGHEST VALUE IS 2.09703 AT (514049.90, 4822525.85, 1903.92, 4196.30, 0.00) DC
9TH HIGHEST VALUE IS 2.07603 AT (514063.46, 4822572.17, 1904.06, 4196.30, 0.00) DC
10TH HIGHEST VALUE IS 2.05416 AT (514355.90, 4822494.78, 1904.28, 4196.30, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
PAGE 38
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

DATE NETWORK
GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
- -

ALL HIGH 1ST HIGH VALUE IS 1095.17573 ON 21010110: AT (514049.90, 4822525.85, 1903.92, 4196.30, 0.00) DC
HIGH 2ND HIGH VALUE IS 732.45519 ON 21121810: AT (514090.57, 4822664.81, 1904.84, 4196.30, 0.00) DC
HIGH 8TH HIGH VALUE IS 329.51858 ON 21020212: AT (514077.01, 4822618.49, 1904.39,

4196.30, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 22112 *** *** Air Curtain Burner *** 05/23/23
*** AERMET - VERSION 22112 *** *** Teton Village WY *** 10:01:00
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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 1 Warning Message(s)
A Total of 1669 Informational Message(s)

A Total of 8760 Hours Were Processed

A Total of 1140 Calm Hours Identified

A Total of 529 Missing Hours Identified (6.04 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W187 506 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****
*** AERMOD Finishes Successfully ***
****

Air Resource SPECIALISTS

Comments on Arbor Works Tree Service Draft Permit
Submitted on behalf of Teton Village Association ISD

Teton Village Association ISD has contracted with Air Resource Specialists, Inc. (ARS) to review and provide comments on the proposal by Arbor Works Tree Service (AWTS) to construct and operate a portable air curtain burner on property located approximately 1.5 miles south of Teton Village, WY. The closest residence to the proposed AWTS site lies within approximately 0.5 miles.

The AWTS proposal is documented in Permit Application Analysis A0014739 prepared by the Wyoming Department of Environmental Quality (WDEQ), Air Quality Division.

Detailed comments are provided below.

1. **The proposed AWTS air curtain burner will cause violations of the National Ambient Air Quality Standards (NAAQS) for nitrogen dioxide (NO_2).**

The WDEQ permit application analysis did not provide an assessment of air quality impacts via air dispersion modeling (See Section 9 of Permit Application Analysis A0014739). As such, Teton Village Association ISD requested that ARS perform such dispersion modeling. ARS performed an air quality dispersion modeling analysis using the EPA AERMOD dispersion model and following the procedures in WDEQ's *Guidance for Conducting Near-Field Modeling Analyses for Minor Sources.*

The ARS modeling analysis determined that nitrogen oxide (NOx) emissions from the proposed air curtain burner would not meet the NAAQS for nitrogen dioxide (NO_2). The details of the ARS modeling analysis are documented in a separate report, also attached.

A permit cannot be issued for the proposed air curtain burner if the source will cause or contribute to a NAAQS violation.

2. **The WDEQ analysis relies on limited operating hours for the proposed air curtain burner, but such limitations do not appear in the proposed WDEQ permit conditions.**

In the calculations submitted by the applicant and relied upon by WDEQ, the air emissions from the air curtain burner and associated diesel-fired electric generator engine were based on limited hours of operation, e.g., 6 hours per day and 180 days per year. However, the draft permit conditions proposed by WDEQ did not explicitly limit the operating time for

the proposed equipment (See Section 10 of Permit Application Analysis A0014739). An explicit permit limit on equipment operation matching the emission calculation assumptions is needed. Otherwise, the proposed emissions relied upon by WDEQ are not enforceable. Also, if the carbon monoxide (CO) emissions from WDEQ Analysis Table 2 are extrapolated to full-time operation because the permit lacks operating restrictions, the potential CO emissions would exceed 100 tons per year (tpy), making the AWTS plant a "major source".

The proposed permit operating limits are listed below:

- The quantity of wood loaded to the burner shall not exceed 54 tons per day.
- The operating time for the burner and associated generator engine shall not exceed six hours in any calendar day and shall not exceed 180 days in any calendar year.

The permit also needs to include appropriate monitoring, recordkeeping, and reporting provisions to verify compliance with the proposed equipment operating limits.

3. The emissions inventory for the proposed air curtain burner is incomplete.

The emissions inventory submitted by the applicant and relied upon by WDEQ only addresses emissions from the burner and the associated generator engine. However, other emissions will occur at the ATWS site in direct support of the burner and these emissions need to be quantified since they would not occur if not for the burner operation.

- The burner will generate ash as a waste product. Using a typical value for wood material of 10% ash, the ash generation will be as much as 5 tons per day. Ash is a fine material and can create significant quantities of dust if not properly managed. The applicant's ash handling and disposal practices need to be identified and the associated PM emissions need to be quantified, including any fugitive dust emissions associated with trucking the ash material off-site for disposal. This information is lacking in the AWTS permit applicant and WDEQ permit analysis.

- Teton Village Association ISD understands that the wood waste volumes which will be handled at the burner are not currently on the AWTS property. This means that the waste materials destined for the burner will be trucked to the site. The fugitive dust emissions associated with trucking materials to the site need to be quantified and addressed in the WDEQ permit analysis. If this understanding is incorrect and no additional materials are to be brought to the AWTS site, then a permit restriction to that effect is needed.

- It is assumed that the wood waste materials will be stored at a staging area on-site and then transported to the burner when the burner is in use. This equipment will travel on unpaved surfaces within the AWTS site when transporting materials to the burner and fugitive dust will be created. These emissions need to be addressed in the permit application and WDEQ analysis.

Lastly, the final permit needs to include appropriate emission control requirements for sources of fugitive dust, including but not restricted to truck and equipment travel on unpaved surfaces within the AWTS property, ash handling and disposal, etc.

4. The Permit needs to include appropriate monitoring to assure compliance with proposed opacity limits.

The proposed permit lists a 20% opacity restriction during steady-state operations, but there is no accompanying requirement for the source to actually perform opacity testing for compliance verification. A permit requirement to conduct periodic opacity testing needs to be included in the permit, otherwise the proposed opacity restriction becomes meaningless. Teton Village Association ISD requests that AWTS be required to monitor opacity on no less than a weekly basis when the burner is in operation. The opacity testing requirements may be changed to monthly testing if the initial testing over the first year of operation demonstrates compliance.

Also, an opacity limit for the burner startup period is needed. Under the draft permit, there is no restriction on opacity during the initial 30 minutes after burner ignition. The startup period is when visible smoke is most likely to occur. The start-up opacity limit also need to include appropriate compliance testing and monitoring as described above.

5. The Draft Permit and WDEQ Analysis needs to be corrected to address the deficiencies noted above and a new 30-day public review and comment period is needed.

The permit application and accompanying WDEQ analysis was incomplete and the full air quality impacts from the proposed AWTS air curtain burner were not addressed. The omission of critical information means that Teton Village Association ISD and other members of the public were not provided all necessary information documenting the impacts of the proposed AWTS air curtain burner. This needs to be corrected by the applicant and WDEQ. Once a complete analysis is provided by WDEQ, a new 30-day public notice and comment period should be provided.

Air Resource SPECIALISTS

Air Quality Dispersion Modeling Report
Arbor Works Tree Service – Teton Village, WY
Submitted on behalf of Teton Village Association ISD

Teton Village Association ISD has contracted with Air Resource Specialists, Inc. (ARS) to conduct an air quality dispersion modeling study of the proposed Arbor Works Tree Service (AWTS) portable air curtain burner. The burner and an associated diesel-fired electric generator engine are proposed to be located on AWTS property located approximately 1.5 miles south of Teton Village, WY. The closest residence to the proposed AWTS site lies within approximately 0.5 miles.

The AWTS proposal is documented in Permit Application Analysis A0014739 prepared by the Wyoming Department of Environmental Quality (WDEQ), Air Quality Division. In the Permit Application Analysis, WDEQ stated that a dispersion modeling study was not conducted as part of the permit applications review, instead claiming that the National Ambient Air Quality Standards (NAAQS) would be protected based on utilization of Best Available Control Technology (BACT) to reduce emissions.

However, WDEQ's assertion about NAAQS compliance did not consider important variables that can lead to adverse ambient air quality impacts such as the height of the emissions release and the proximity of the property boundary to significant emission sources. Based on the ARS modeling analysis, it was determined that nitrogen oxide (NOx) emissions from the proposed air curtain burner would cause the NAAQS for nitrogen dioxide (NO_2) to be exceeded at locations outside of the AWTS property. The details of the ARS modeling are documented in this report.

A permit cannot be issued by WDEQ for the proposed AWTS air curtain burner if the source will cause or contribute to a NAAQS violation.

Modeling Overview

The ARS air dispersion modeling study was conducted using the current regulatory version of the US Environmental Protection Agency (EPA) AERMOD model (V22112) along with supporting software programs, including AERMET (V22112), AERMAP (V18081), and AERSURFACE (V20060). AERMOD was executed using the standard regulatory default options. The meteorological data input to the modeling were created using AERMET and surface weather observations at the nearby Jackson Hole Airport (KJAC, WBAN 24166). One year of meteorological data from Calendar Year 2021 was created and used to drive the model dispersion and transport calculations.

The technical procedures followed in the ARS modeling were guided by WDEQ's *Guidance for Conducting Near Field Modeling Analyses of Minor Sources*, dated January 2018.

Emissions and Emissions Characterization

Nitrogen oxide (NOx) emissions were taken from the AWTS permit application and the subsequent permit application review by WDEQ as documented in the Permit Application Analysis (A0014739, dated April 13, 2023).

NOx emissions from the planned air curtain burner are listed in the permit application at 9 lb/hr. Only the burner NOx emissions were modeled. Additional NOx emissions from the diesel-fired generator associated with the burner were not modeled.

The burner NOx emissions were modeled as three adjacent volume sources, so NOx emissions were set at 3 lb/hr per volume source (9 lb/hr total). The volume source parameters were based on the dimensions of the Air Burner S-223 equipment identified by AWTS in the permit application. There is no emissions stack based on photographs of the burner equipment presented in the permit application.

Using information presented in the permit application, the burner combustion chamber dimensions are 7 meters by 1.9 meters with a height of 2.2 meters. The burner combustion chamber is open at the top to allow material feed to the unit. Using the diesel engine fan, a curtain of airflow is generated over top of the combustion chamber. Under this configuration, ARS determined that emissions would most likely occur along the top edge of the combustion chamber on the side of the combustion chamber downwind of the fan.

The volume source parameters for model input are the height of release and the initial sigma-y and sigma-z parameters, which are defined by the size of the assumed emissions volume. Also, because the burner emissions are assumed to be buoyant, the NOx emissions are assumed to be spread across a vertical volume up to a height equal to twice the combustion chamber height. The release height is the midpoint of this volume or 2.2 meters.

The initial sigma-y and sigma-z parameters were calculated following recommendations for volume sources from the AERMOD User's Manual. The horizontal dimension for each of the three volume sources (initial sigma-y) was determined using the width of the combustion chamber (1.9 meters/2.15 = 0.884 meters). Separating the emissions into three volume sources allowed the emissions to be spread equally across the 7-meter length of the combustion chamber. The initial sigma-z was calculated based on the assumed volume depth, e.g., 4.4 meters/2.15 = 2.05 meters.

In the permit application, it is stated that the proposed air curtain burner would operate up to 6 hours per day. The planned limited operation of the source was simulated in AERMOD using the HROFDAY keyword. The burner NOx emissions were assumed to occur each day for the six-hour period between 9 am and 3 pm (HR 10-15), with zero emissions during the other hours. Please note that this operating limit was included in the modeling, even though there were no restrictions in the WDEQ draft permit on daily source operation. Modeled emissions were also assumed to occur 365 days per year. Although the annual emissions in the permit application were calculated based on 180 days/year operation, the draft permit does not limit the time of year when the burner can operate. As such, the EPA modeling guideline (40 CFR 51, Appendix W) requires that emissions be simulated as occurring at all times of the year, which helps assure that emissions occur in the model simultaneous with the worst-case dispersion condition.

The NOx-to-NO2 conversion in AERMOD was simulated using the ARM2 option.

The precise location for the burner equipment was not identified in the permit application. The three volume sources representing the burner emissions were placed near the center of the property area identified in the permit application.

Receptors

Receptor placement for AERMOD followed WDEQ's *Guidance for Conducting Near Field Modeling Analyses of Minor Sources*, dated January 2018. Receptors were placed at an interval of 50 meters along the AWTS property boundary, which was estimated using Google Earth imagery. Additional receptors were placed in a rectangular grid surrounding the AWTS property at a horizontal spacing of 100 meters. The 100-meter grid extended out to a distance of about 1 kilometer from the assumed source location.

In total, there were 464 receptors in AERMOD. Elevations for the receptors and volume sources were calculated using AERMAP (V18081), which was linked to digital elevation (3DEP) data. The 3DEP data were downloaded from https://gaftp.epa.gov/Air/aqmg/3dep/.

Because of the low emissions release height (2.2 meters), it is reasonable to expect that maximum ambient air quality impacts would occur at or near the property boundary and there was no need to extend the receptor grid beyond 1 kilometer.

Meteorological Data

The meteorological data were generated using the AERMET processing program which accompanies AERMOD. Inputs were surface meteorological observations from Jackson Hole Airport (KJAC, WBAN 24166) coupled with twice-daily upper air observations from Riverton, WY Regional Airport (WBAN 24061). AERMET was run using the standard regulatory default options, including the ADJ_U* option. KJAC surface data were downloaded in the Integrated Surface Dataset (ISD) format from https://www1.ncdc.noaa.gov/pub/data/noaa/. The Riverton upper air data were downloaded in FSL format from https://ruc.noaa.gov/raobs/. The AERMINUTE processor was not used as KJAC lacks any archived AERMINUTE data.

AERMET requires data on surface characteristics, including surface roughness length, albedo, and Bowen ratio. These parameters were determined using AERSURFACE (V20060) and land cover data from the National Land Cover Database (NLCD). AERSURFACE processes 2016 NLCD data downloaded from the Multi-Resolution Land Characteristics (MRLC) Consortium NLCD Viewer at https://www.mrlc.gov/viewer/.

The meteorological data files generated using AERMET were KJAC2021.SFC and KJAC2021.PFL.

Model Results

The model results were generated using the form of the NAAQS. For NO_2, the 1-hour average NAAQS is 100 parts per billion (ppb) based on the 98th percentile concentration. The 98th percentile concentration is represented in AERMOD by the predicted highest-eighth-highest (H8H) 1-hour average NO_2 concentration. The NAAQS (100 ppb) equals 188 micrograms per cubic meter.

For the proposed AWTS air curtain burner, the predicted H8H 1-hour NO_2 concentration was 329.5 micrograms per cubic meter. The predicted H8H 1-hour average NO_2 concentration exceeds the applicable NAAQS by almost a factor of two.

Also, please remember that the AERMOD model result described above does not include any NOx emissions from the diesel-fired generator engine that accompanies the air curtain burner. Also, the modeling does not include a background NO_2 concentration. The background is intended to represent the ambient air quality impacts generated by emission sources that are not explicitly modeled and would include NOx emissions from sources such as nearby vehicle traffic and general urban emissions from nearby residential and commercial areas. As such, the actual NO_2 impacts are likely even higher than what is represented by the modeling.

The AERMOD output file showing the modeling results is provided as an Attachment to this report. Electronic data files for all model input/output data are available upon request.

Because the AERMOD modeling demonstrates that the proposed AWTS air curtain burner will cause or contribute to a NAAQS violation, a permit for the AWTS air curtain burner cannot be issued by WDEQ.

Nancy Vehr, Administrator
Division of Air Quality, Department of Environmental Quality
200 West 17th St.
Cheyenne, Wyoming 82002
Submitted electronically

RE: A0014739

May 24, 2023

Administrator Vehr,

Please accept the attached comments and air dispersion modeling conducted by Air Resource Specialists (ARS) on behalf of Teton Village Association in regard to Arbor Works Tree Service's application A0014739 to install and operate a portable air curtain burner in Teton County, 1.5 miles south of Teton Village.

ARS determined that nitrogen oxide emissions from the proposed air curtain burner would not meet the National Ambient Air Quality Standards (NAAQS) for nitrogen dioxide. Because the permit application and WDEQ analysis were incomplete and the full air quality impacts from the proposed air curtain burner were not addressed, members of the public were not provided all necessary information documenting the impacts. Therefore, Teton Village Association respectfully requests this be corrected by the applicant and WDEQ and a new 30-day public notice and comment period be provided once a complete analysis is provided by WDEQ.

Thank you,

Melissa Turley

Melissa Turley, Executive Director
Teton Village Association ISD