Department of Energy
Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221

JUN 2 5 2014

Mr. John E. Kieling, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87508-6303

Mr. Tom Blaine, Division Director
Environmental Health Division
Harold Runnels Building
1190 Saint Francis Drive, Room 4050
Santa Fe, NM 87502-5469

Subject: Bi-Weekly Report for the period ending June 15, 2014, as requested per Item 18 of the May 12, 2014, NMED Administrative Order

Dear Mr. Kieling and Mr. Blaine:

The purpose of this letter is to transmit the bi-weekly report for the week ending June 15, 2014, as required by Item 18 of the May 12, 2014, Administrative Order issued under the authority of the New Mexico Hazardous Waste Act § 74-4-13 from Ryan Flynn to Messrs Hellstrom, Franco, Cook, and McQuinn. This report is enclosed along with a compact disc containing data requested by the Administrative Order.

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of our knowledge and belief, true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact Mr. George T. Basabilvazo at (575) 234-7488.

Sincerely,

DC Bryson for
Jose R. Franco, Manager
Carlsbad Field Office

RL McQuinn
Robert L. McQuinn, Project Manager
Nuclear Waste Partnership LLC

Enclosures (3)

cc: w/enclosure(s)
T. Kliphuis, NMED *ED
J. Sales, EPA ED
CBFO M&RC
*ED denotes electronic distribution

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Bi-Weekly Status Report for the New Mexico Environment Department February 27, 2014, and May 12, 2014, Administrative Orders Reporting Period June 2, 2014, through June 15, 2014

Introduction

On February 5, 2014, a vehicle fire occurred in the Waste Isolation Pilot Plant (WIPP) underground, resulting in normal operations and waste shipments from generator sites being temporarily suspended. On February 14, 2014, while the fire investigation was still underway, a Continuous Air Monitor detected airborne radiation in the WIPP underground facility, causing the ventilation exhaust to automatically shift to high efficiency particulate air (HEPA) filtration mode. The ventilation system has been operating in filtration mode since that time. Recent entries into Panel 7 in the underground have confirmed that at least one container from a nitrate salt bearing waste stream from Los Alamos National Laboratory has been breached and is most likely the source of the release. Further investigations are currently ongoing as part of the re-entry process to collect additional information regarding the release. All shipments of waste to the WIPP facility have been suspended.

The New Mexico Environment Department (NMED) has issued two Administrative Orders (AOs) to address certain activities relative to the WIPP Hazardous Waste Facility Permit (Permit) that cannot be performed because the underground is inaccessible for normal activities. The AOs provide requirements for monitoring and reporting to the NMED concerning the status of recovery from the two events. The first administrative order (AO1) was issued on February 27, 2014, and addressed above-ground compliance issues, and required a weekly report to be submitted with regard to surface-related requirements of the Permit. On May 12, 2014, a second administrative order (AO2) was issued to address, in part, Permit-required activities that cannot currently be performed due to the inaccessibility of the underground. AO2 changes the reporting period from weekly to bi-weekly, with additional information required to supplement the information required by AO1. This report serves to fulfill the reporting requirements set forth by both AO1 and AO2. Paragraph 18(a) of AO2 states that informational requirements of both orders may be combined. The following sections combine the information required by both orders, as appropriate, and provide references to the applicable paragraphs from AO1 and AO2.

The Permittees are in the process of developing a WIPP Recovery Plan, which will provide the safe and environmentally sound approach for bringing the WIPP facility back to a fully operational state. In accordance with Paragraph 17(a) of AO2, the Permittees are required to submit a draft *Underground Compliance Plan* (UCP) to the NMED by June 26, 2014. Pertinent elements of the WIPP Recovery Plan will be integrated into the UCP as these elements pertain to the Permit-related requirements addressed by the AOs. The bi-weekly reports will provide a status of recovery-related activities, as outlined in AO1 and AO2, aimed at bringing the WIPP facility into full compliance with the terms and conditions of the Permit. The initial bi-weekly report was submitted to the NMED on June 13, 2014. In accordance with Paragraph 18(a) of AO2, subsequent reports will identify new information since the previous reporting period.

1.0 Status of Permit-related surface and underground inspections for this reporting period, as requested per Paragraph 14(a) of AO1 and Paragraphs 18(c) and 18(e)(iii) of AO2, including the accessibility for personnel performing these Permit-required activities per Paragraph 18(e)(i) of AO2 and the status of recovery activities per Paragraph 18(e)(ii)of AO2:

See Attachment 1, *Surface and Underground Inspections*, for the current status of each Permit-required inspection, including accessibility of underground equipment for personnel performing the inspections. This list is taken from Permit Attachment E, Table E-1. The surface and underground inspections required by Table E-1a related to remote-handled (RH) transuranic (TRU) waste are pre-operational. Because the WIPP facility has not been handling RH TRU waste, and there is no RH TRU waste being stored at the WIPP facility at this time, these pre-operational inspections do not currently apply. Inspections and preventative maintenance (PMs) are not required for equipment that is out of service. Prior to commencing RH TRU waste handling operations, PMs and/or inspections will be brought into a current/compliant status.

As indicated in Attachment 1, underground inspections cannot currently be performed due to the inaccessibility of the underground to personnel responsible for conducting the inspections. In accordance with Paragraph 17(a) of AO2, the Permittees are required to submit the draft UCP to the NMED by June 26, 2014. The order requires that the UCP outline a proposed timeline, including dates, for achieving underground recovery and attaining compliance with these Permit-required activities. Before these activities can resume, however, certain activities must be performed in order to establish the safety and habitability of the work areas in the underground. The UCP will be updated as information becomes available, and these updates will be provided to the NMED for review and comment prior to being incorporated. Updates to the UCP will be reflected in the bi-weekly reports, as required by Paragraph 18(c) of AO2.

2.0 Status of Permit-related monitoring activities for this reporting period, as requested per Paragraph 14(a) of AO1 and Paragraph 18(c) of AO2, including the accessibility for personnel performing these Permit-required activities per Paragraph 18(e)(i) of AO2 and the status of recovery activities per Paragraph 18(e)(ii)of AO2:

In accordance with Paragraph 17(a) of AO2, the Permittees are required to submit the draft UCP to the NMED by June 26, 2014. The order requires that the UCP outline a proposed timeline, including dates, for achieving underground recovery and attaining compliance with these Permit-required activities. Before underground monitoring activities can resume, however, certain activities must be performed in order to establish the safety and habitability of the work areas in the underground. The UCP will be updated as information becomes available, and these updates will be provided to the NMED for review and comment prior to being incorporated. Updates to the UCP will be reflected in the bi-weekly reports, as required by Paragraph 18(c) of AO2.

<u>Volatile Organic Compound (VOC) Monitoring</u>

Repository VOC monitoring activities (required by Permit Part 4, Section 4.6.2., including Table 4.6.2.3., and associated requirements in Attachment N) are not currently being performed due to the inaccessibility of the underground to personnel who perform these activities. Additionally, room-based VOC monitoring activities (required by Permit Part 4, Sections 4.4.3. and 4.6.3., Tables 4.4.1. and 4.6.3.2., and associated requirements in

Attachment N) cannot currently be performed due to the inaccessibility of the underground to personnel who perform these activities.

Surface VOC monitoring is being conducted in lieu of underground monitoring during re-entry and recovery operations. Surface monitoring is being performed to determine its feasibility while the facility is in recovery operations and to assure that the Permit environmental performance standards (i.e., carcinogenic and non-carcinogenic risk due to VOC emissions from the disposed waste) for surface-based non-waste workers are met. Samples have been collected twice each week at two locations since February 25, 2014. These samples are 24-hour VOC samples collected on the surface near the Training Building and at the south fence line just behind the Waste Handling Building (WHB). These samples are intended to quantify VOC exposure to a receptor in the Training Building. The samples at the south fence line are intended to quantify background VOC concentrations in the ambient air. In accordance with Paragraph 19 of AO2, the Permittees began monitoring for trichloroethylene as a target analyte on May 12, 2014.

Geomechanical Monitoring

The purpose of geomechanical monitoring is to confirm the structural integrity of the underground repository. Geomechanical monitoring data are currently being transmitted electronically via remote equipment located in Rooms 6 and 7 of Panel 7 in accordance with Permit Part 4, Section 4.6.1., associated requirements in Attachment A2-5b(2), and Attachment E, Table E-2. Geomechanical monitoring activities that require the manual reading of underground equipment cannot currently be performed due to the inaccessibility of the underground to personnel who perform these activities. However, visual inspections of the underground areas during recent re-entries have shown that the ground is stable and is in sound condition.

Hydrogen and Methane Monitoring

Hydrogen and methane monitoring activities (required by Permit Part 4, Section 4.6.5. and associated requirements in Attachment N1) cannot currently be performed due to the inaccessibility of the underground to personnel who perform these activities.

Mine Ventilation Rate Monitoring

Mine ventilation rate monitoring activities (required by Permit Part 4, Section 4.6.4. and associated requirements of Attachment O) are currently being performed. However, due to reduced air flow in the underground because of filtration mode, the ventilation rate set forth by the Permit cannot be maintained. Because the ventilation system has been operating in filtration mode since February 14, 2014, with a flow rate of approximately 60,000 standard cubic feet per minute (SCFM), the Permittees will not be able to maintain the minimum running annual average ventilation flow rate of 260,000 SCFM required by Permit Part 4, Section 4.5.3.1.

3.0 Actions taken with regard to TRU waste shipments that were en-route since February 5, 2014, as requested per Paragraph 14(b) of AO1:

Response was provided in the initial March 17, 2014, weekly submittal to the NMED per AO1.

4.0 Summary of waste shipment information and any other relevant records that document the site of origin, volumes and receipt dates of TRU waste that is currently located at the Facility WHB and Parking Area Unit, as requested per Paragraph 14(c) of AO1, and information specifying the deadlines for each individual waste assembly as it relates to AO1, as requested per Paragraph 14(d) of AO1:

See Attachment 2, *TRU Mixed Waste Currently in Storage at the WIPP Facility*. All waste is currently being stored in the WHB. Since the submittal of the last bi-weekly report, this attachment has been updated to include the derived waste that has been generated as a result of underground ventilation filter change-out activities.

5.0 Records of inspection and maintenance of the ventilation and filtration system of the Facility WHB after the February 5, 2014, salt truck engine fire and the radiological event of February 14, 2014, as requested per Paragraph 14(e) of AO1:

See Attachment 3, *Ventilation Fans Inspection Round Sheets* (best available copies).

6.0 Location of any environmental monitoring equipment, including the identification of whether they are stationary, mobile, or permanent. This includes, but is not limited to VOC monitoring stations, radiological monitoring stations, meteorological monitoring, surface water monitoring, vegetation sampling. The reports shall include dates of deployment and sampling, and all data that has been produced by these monitoring stations for this reporting period, as requested per Paragraph 14(f) of AO1:

See Attachment 4, *Environmental Monitoring,* which includes tables with the locations of environmental monitoring equipment (including identification whether they are stationary, mobile, or permanent) and data for this reporting period. Aerial photos and diagrams displaying monitoring locations are included. The following briefly describes the monitoring information that is being provided in Attachment 4.

- VOC monitoring stations – Portable surface monitoring equipment has been deployed since February 25, 2014. Samples are being collected twice each week at two locations, as indicated in Attachment 4. The sample location at the facility fence line was recently moved slightly to the southeast to obtain a more accurate reflection of background conditions. The results of sample analyses are provided in Attachment 4.

- Meteorological monitoring data are being provided in Attachment 4 and on the enclosed compact disc.

  During this reporting period, there was one 15-minute period on June 9, 2014, at 7:15 a.m. in which the 2-, 10-, and 50-meter levels of wind speed reported “NAN” (i.e., not a number). Therefore, no data are reported for this time period.

- Radiological monitoring

  - Environmental air samples – Stationary low volume air samplers continuously sample air at the locations shown in Attachment 4.

- Soil samples – Soil samples were obtained on the dates and locations shown in Attachment 4.
- Surface water samples – Surface water samples were obtained on the dates and at the locations shown in Attachment 4.
- Sediment samples – Sediment samples were obtained on the dates and at the locations shown in Attachment 4.
- Biota (vegetation) samples – Vegetation samples were obtained on the dates and locations shown in Attachment 4.
- Biota (fauna) samples – A biotic sample was obtained on the date shown in Attachment 4.
- Salt samples – Salt samples were obtained on the dates and locations shown in Attachment 4.

7.0 The status of surface ventilation fans and timeline of operation since January 1, 2014, as requested per Paragraph 14(g) of AO1 and as specified by Paragraph 22 of AO2:

See Attachment 3, *Ventilation Fans Inspection Round Sheets* (best available copies).

8.0 Exhaust Filter Building HEPA filter differential pressure data beginning February 14, 2014, as requested per Paragraph 14(h) of AO1:

See Attachment 5, *Filter Differential Pressures,* and the Excel spreadsheet provided on the enclosed compact disc. The differential pressure values have been rounded to two decimal places to enhance usability. During this reporting period only the 41-B-857 filter unit was operating. On June 1, 2014, the 41-B-856 filter unit was isolated in preparation for underground ventilation filter replacement. Therefore, no differential pressure data are being reported for the 41-B-856 unit. There were several days of rain and high humidity during this reporting period, and as a result, the differential pressure readings across the 41-B-857 Mod filter appear erratic. Because the Mod filters are primarily loaded with salt, high humidity causes the differential pressures to increase. As the air dries out, the differential pressures decrease.

9.0 Updates on activities performed pursuant to the Underground Derived Waste Storage Plan, including a description of any surface and underground derived waste produced, whether the derived waste is mixed or non-mixed, the contents, container type, container location, total container count, and approximate volume of derived waste per container, as requested per Paragraph 14(i) of AO1 and Paragraph 18(d) of AO2:

In accordance with Paragraph 17(b) of AO2, the draft *Underground Derived Waste Storage Plan* is required to be submitted to the NMED by June 26, 2014. On June 12, 2014, derived waste was generated as a result of filter change-out activities at the 41-B-856 filter unit. See Attachment 6, *Surface and Underground Derived Waste Currently in Storage at the WIPP Facility*.

10.0 The current status of activities required by the RCRA Contingency Plan, Permit Attachment D, including identification of applicable sections of the Contingency Plan, the schedule for actions required under the Contingency Plan, and any deviations from any Contingency Plan requirements, as requested per Paragraph 18(b) of AO2. Non-applicable sections shall also be identified and explanations shall be provided as to why such sections do not apply:

See Attachment 7, *Status of RCRA Contingency Plan Required Activities,* for a matrix outlining compliance with the individual sections applicable to the ongoing implementation of the RCRA Contingency Plan. Sections of the RCRA Contingency Plan that are descriptive in nature, not applicable to the current implementation of the plan, or no longer applicable to ongoing activities associated with implementation of the plan have been removed from the matrix that was submitted with the initial bi-weekly report; there have been no changes to the status of these requirements.

11.0 The bi-weekly report shall include the submission of a list containing all additional requirements placed upon the WIPP by any state or federal agency relating to corrective actions or recovery and as a result of the incidents referenced in Paragraphs 8 and 9 of the May 12, 2014 Administrative Order, including requirements by other segments of DOE, as requested by Paragraph 18(f) of AO2:

During this reporting period, no additional requirements were placed upon the Permittees by any other state or federal agency relating to corrective actions or recovery and as a result of the incidents referenced in Paragraphs 8 and 9 of AO2, including requirements by other segments of the DOE. As additional JONs are identified as a result of the completion of subsequent phases of the AIB radiological release event investigation, they will be provided in Attachment 8, which is currently reserved.

12.0 The Permittees shall provide a paper copy of the Panel 7, Room 7 waste placement layout map or diagram, as required by Permit Section 4.8.2, as required by Paragraph 18(g) of AO2:

Attachment 9, *Waste Placement Layout Map*, was provided in the initial bi-weekly report submitted to the NMED on June 13, 2014. There have been no changes to this information since the initial submittal. This attachment is currently reserved.

13.0 The Permittees shall provide the most recent Weekly Map Update that shows waste disposal and mining activities for Panels 7 and 8, as requested per Paragraph 18(h) of AO2:

Attachment 10, *Weekly Map Update*, was provided in the initial bi-weekly report submitted to the NMED on June 13, 2014. There have been no changes to this information since the initial submittal. This attachment is currently reserved.

14.0 The Permittees shall provide documentation of the "as found" condition of Panel 7, including relevant photographs of the waste, as requested per Paragraph 18(i) of AO2:

Attachment 11, *As-Found Condition of Panel 7*, was provided in the initial bi-weekly report submitted to the NMED on June 13, 2014. There have been no re-entries to the underground since May 30, 2014, due to filter replacement activities associated with the

underground ventilation filters. Therefore, there have been no changes to information provided in the initial submittal of this report. This attachment is currently reserved.

15.0 The Permittees shall provide documentation of the "as found" condition of Panel 6 partial closure system, including relevant photographs, as requested per Paragraph 18(j) of AO2:

Response provided in the initial bi-weekly report submitted to the NMED on June 13, 2014. There have been no re-entries to the underground since May 30, 2014, due to filter replacement activities associated with the underground ventilation filters. Therefore, there have been no changes to information provided in the initial submittal of this report.

16.0 The Permittees shall provide a status of recovery-related activities relative to the underground per Paragraph 18(e)(ii) of AO2 and a summary of recovery-related work performed in Panel 7, including relevant photographs, as requested per Paragraph 18(k) of AO2:

The Permittees have been performing radiological surveys during underground re-entries; however, future re-entries are on hold pending the completion of underground ventilation filter change-out activities. A radiological buffer area (RBA) has been established in the underground area between the salt shaft and the air intake shaft. An RBA is an area where access is managed in order to protect individuals from exposure to radiation and/or radioactive materials. The other areas leading up to and including Panel 7 are Airborne Radiation Areas (ARAs) and High Contamination Areas (HCAs). In addition, the Permittees are in the process of finalizing the WIPP Recovery Plan. Underground ventilation filter change-out efforts are continuing. On June 12, 2014, Mod and High-Efficiency filters were removed and replacements installed for the 41-B-856 filter unit. This is an important step in the recovery process. Aerosol testing is scheduled to be performed on the 41-B-857 filter unit the week of June 16, 2014. The results of this testing will determine if the HEPA filters need to replaced in the filter unit prior to replacing the Mod and High-Efficiency filters. As the Permittees continue to conduct recovery activities, additional descriptions will be provided in subsequent reports. Relevant photographs will be included in Attachment 12, *Panel 7 Recovery-Related Work* (currently reserved).

17.0 The Permittees shall provide the status and description of the Waste Handling Building Unit ("WHB") and the Waste Shaft soot clean-up activities, as requested per Paragraph 18(l) of AO2:

As a result of the underground vehicle fire event on February 5, 2014, clean-up activities have been required to address the accumulation of soot in the Waste Handling Building and the Waste Hoist Tower.

Clean-up efforts in the Waste Hoist Tower RBA and the Waste Hoist Collar have been completed. Ductwork on the 2nd floor of the Waste Hoist Tower has been cleaned, and cleaning of the ductwork on the 4th and 5th floors will continue until early July. The heating, ventilation, and air-conditioning (HVAC) filters were removed from the Waste Hoist Control Room in early June, and cleaning of the Waste Hoist Control Room ventilation system and the air intake ventilation ductwork began the second week of June. In mid-June, the waste hoist motor and polarization index will be cleaned. The inside of the hoist motor cooling duct, fan, cooling coil, and filter housing are scheduled to be cleaned the latter part of June into early July, as is the 3rd floor ventilation ductwork in the Waste Hoist Tower.

The Waste Hoist master control station and power converter are also scheduled to be cleaned during this time frame.

Attachment 1
Surface and Underground Inspections

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use)[1]	Comments
Air Intake Shaft Hoist	Underground Operations	Preoperational	WP 04-HO1004 Inspecting for Deterioration, Safety Equipment, Communication Systems, and Mechanical Operability in accordance with Mine Safety and Health Administration (MSHA) requirements	Current	5/30/14	N/A	Inspection performed daily before Hoist is declared in service. No re-entries since 5/30/14.
Exhaust Shaft	Underground Operations	Quarterly	PM041099 Inspecting for Deterioration and Leaks/Spills	Not Current	12/31/13 (Due 3/31/14)	TBD	Shaft is not accessible due to the fire and radiological events, and inspections cannot be performed.
Salt Handling Shaft Hoist	Underground Operations	Preoperational	WP 04-HO1002 Inspecting for Deterioration, Safety Equipment, Communication Systems, and Mechanical Operability in accordance with MSHA requirements	Current	5/30/14	N/A	Inspection performed daily before Hoist is declared in service.
Self-Rescuers	Underground Operations	Quarterly	WP 04-AU1026 Inspecting for Deterioration and Functionality in accordance with MSHA requirements	Current	3/31/14	N/A	
Underground Openings—Roof Bolts and Travelways	Underground Operations	Weekly	WP 04-AU1007 Inspecting for Deterioration	Not Current	1/29/14	1/31/16	Underground is not accessible due to the fire and radiological events, and inspections cannot be performed. Note that partial underground openings inspections are being performed by re-entry teams, but not the full weekly underground openings inspection.
Waste Hoist	Underground Operations	Preoperational	WP 04-HO1003 Inspecting for Deterioration, Safety Equipment, Communication Systems, and Mechanical Operability, Leaks/Spills, in accordance with MSHA requirements	Current	2/5/14	8/31/14	Hoist is not accessible due to the fire and radiological events, and inspections cannot be performed.

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use)[1]	Comments
Explosion-Isolation Walls	Underground Operations	Quarterly	Integrity and Deterioration of Accessible Areas	Not Current	N/A	1/31/16	Area is not accessible due to the fire and radiological events, and inspections cannot be performed. Inspection records are located in the underground and are, therefore, not accessible.
Bulkhead in Filled Panels	Underground Operations	Monthly	Integrity and Deterioration of Accessible Areas	Not Current	N/A	1/31/16	Area is not accessible due to the fire and radiological events, and inspections cannot be performed. Inspection records are located in the underground and are, therefore, not accessible.
MSHA Air Quality Monitor	Maintenance/ Underground Operations	Daily	WP 12-IH1828 Inspecting for Air Quality Monitoring Equipment Functional Check	Current	5/30/14	N/A	Inspected prior to re-entry. No re-entries since 5/30/14.
Ambulances (Surface) and related emergency supplies and equipment	Emergency Services	Weekly	12-FP0030 Inspecting for Mechanical Operability, Deterioration, and Required Equipment	Current	6/15/14	N/A	
Ambulances (Underground) and related emergency supplies and equipment	Emergency Services	Weekly	12-FP0030 Inspecting for Mechanical Operability, Deterioration, and Required Equipment	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Fire Detection and Alarm System (Surface)	Emergency Services	Semiannually	12-FP0027 Inspecting for Deterioration, Operability of indicator lights and, underground fuel station dry chemical suppression system. Inspection is per NFPA 17	Current	1/7/14 (Due 7/7/14)	N/A	

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use)[1]	Comments
Fire Detection and Alarm System (Underground)	Emergency Services	Semiannually	12-FP0027 Inspecting for Deterioration, Operability of indicator lights and, underground fuel station dry chemical suppression system. Inspection is per NFPA 17	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Fire Extinguishers (Surface)	Emergency Services	Monthly	12-FP0036 Inspecting for Deterioration, Leaks/Spills, Expiration, seals, fullness, and pressure	Current	5/23/14 (Due 6/30/14)	N/A	
Fire Extinguishers (Underground)	Emergency Services	Monthly	12-FP0036 Inspecting for Deterioration, Leaks/Spills, Expiration, seals, fullness, and pressure	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Fire Hoses	Emergency Services	Annually (minimum)	12-FP0031 Inspecting for Deterioration and Leaks/Spills	Current	3/26/14	N/A	
Fire Hydrants	Emergency Services	Semi-annual/ annually	12-FP0034 Inspecting for Deterioration and Leaks/Spills	Current	11/23/13 (Annual) 3/28/14 (Semi-annual)	N/A	
Fire Pumps	Emergency Services	Weekly/annually	WP 12-FP0026 Inspecting for Deterioration, Leaks/Spills, valves, and panel lights	Current	6/9/14	N/A	
Fire Sprinkler Systems	Emergency Services	Monthly/quarterly	WP 12-FP0025 Inspecting for Deterioration, Leaks/Spills, static pressures, and removable strainers	Current	6/9/14, 6/10/14, 6/11/14, 6/12/14, 6/13/14	N/A	

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use)[1]	Comments
Fire and Emergency Response Trucks (Seagrave Fire Apparatus, Emergency One Apparatus)	Emergency Services	Weekly	12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Current	6/13/14	N/A	
Fire and Emergency Response Trucks (Underground Rescue Truck)	Emergency Services	Weekly	12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Hazardous Material Response Equipment	Emergency Services	Weekly	12-FP0033 Inspecting for Mechanical Operability, Deterioration, and Required Equipment	Current	6/10/14	N/A	
Miners First Aid Station	Emergency Services	Quarterly	12-FP0035 Inspecting for Required Equipment	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Personal Protective Equipment (not otherwise contained in emergency vehicles or issued to individuals): —Self-Contained Breathing Apparatus	Emergency Services	Weekly	12-FP0029 Inspecting for Deterioration and Pressure	Current	6/14/14	N/A	
Rescue Truck (Surface)	Emergency Services	Weekly	12-FP0030 and 12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Current	6/12/14	N/A	
Rescue Truck (Underground)	Emergency Services	Weekly	12-FP0030 and 12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use)[1]	Comments
Vehicle Siren (Surface Vehicles)	Emergency Services	Weekly	Functional Test included with inspection of the Ambulances, Fire Trucks, and Rescue Trucks	Current	6/12/14, 6/13/14, 6/15/14	N/A	
Vehicle Siren (Underground Vehicles)	Emergency Services	Weekly	Functional Test included with inspection of the Ambulances, Fire Trucks, and Rescue Trucks	Not Current	2/8/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Adjustable Center of Gravity Lift Fixture	Waste Handling	Preoperational	WP 05-WH1410 Inspecting for Mechanical Operability and Deterioration	Current	6/12/14 (41-T-035)	N/A	There are four ACGLFs, but the pre-operational inspection was only performed on the one fixture listed. The other ACGLFs will be inspected prior to use.
Contact-Handled (CH) TRU Underground Transporter	Waste Handling	Preoperational	WP 05-WH1603 Inspecting for Mechanical Operability, Deterioration, and area around transporter clear of obstacles	Current	2/5/14	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.
Conveyance Loading Car	Waste Handling	Preoperational	WP 05-1406 Inspecting for Mechanical Operability, Deterioration, path clear of obstacles and guards in the proper place	Current	2/5/14	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.
Facility Transfer Vehicle	Waste Handling	Preoperational	WP 05-WH1204 Inspecting for Mechanical Operability, Deterioration, path clear of obstacles, and guards in the proper place	Current	6/12/14 (41-H-020A)	N/A	There are two transfer vehicles, but the pre-operational inspection was only performed on the one fixture listed. The other fixtures will be inspected prior to use.

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use)[1]	Comments
Forklifts Used for Waste Handling (Electric and Diesel forklifts, Push-Pull Attachment) on Surface	Waste Handling	Preoperational	WP 05-WH1201, WP 05-WH1207, WP 05-WH1401, WP 05-WH1402, WP 05-WH1403, and WP 05-WH1412 Inspecting for Mechanical Operability, Deterioration, and On board fire suppression system	Current	6/11/14 (41-H-051) 6/13/14 (41-H-012D) (41-H-013) (41-H-009) (74-H-010B) (41-H-012E)	N/A	There is one additional 13-ton forklift (41-H-012C) which will be inspected prior to use.
Forklifts Used for Waste Handling (Electric and Diesel forklifts, Push-Pull Attachment) in Underground	Waste Handling	Preoperational	WP 05-WH1201, WP 05-WH1207, WP 05-WH1401, WP 05-WH1402, WP 05-WH1403, and WP 05-WH1412 Inspecting for Mechanical Operability, Deterioration, and On board fire suppression system	Current	2/5/14	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.
Surface TRU Mixed Waste Handling Area	Waste Handling	Preoperational or Weekly	WP 05-WH1101 Inspecting for Deterioration, Leaks/Spills, Required Aisle Space, Posted Warnings, Communication Systems, Container Condition, and Floor coating integrity	Current	6/9/14 (Weekly) 6/15/14 (Daily)	N/A	
TRU Mixed Waste Decontamination Equipment	Waste Handling	Annually	WP 05-WH1101 Inspecting for Required Equipment	Current	12/31/13	N/A	
Underground TRU Mixed Waste Disposal Area	Waste Handling	Preoperational	WP 05-WH1810 Inspecting for Deterioration, Leaks/Spills, mine pager phones, equipment, unobstructed access, signs, debris, and ventilation	Current	2/5/14	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.
TDOP Upender	Waste Handling	Preoperational	WP 05-WH1010 Inspecting for Mechanical Operability and Deterioration	Current	10/9/13	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use)[1]	Comments
Waste Handling Cranes	Waste Handling	Preoperational	WP 05-WH1407 Inspecting for Mechanical Operability, Deterioration, and Leaks/Spills	Current	6/12/14 (41-T-151D)	N/A	There are four cranes, but the pre-operational inspection was only performed on the one crane listed. The other cranes will be inspected prior to use.
Push-Pull Attachment (Surface)	Waste Handling	Preoperational	WP 05-WH1401 Inspecting for Damage and Deterioration	Current	6/5/14 (41-T-160B) 6/13/14 (41-T-160A)	N/A	
Push-Pull Attachment (Underground)	Waste Handling	Preoperational	WP 05-WH1401 Inspecting for Damage and Deterioration	Current	2/5/14	When waste disposal operations resume	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.
Trailer Jockey	Waste Handling	Preoperational	WP 05-WH1405 Inspecting for Mechanical Operability and Deterioration	Current	6/11/14 (41-H-151A)	N/A	There are three Trailer Jockeys, but the pre-operational inspection was only performed on the one listed. The other Trailer Jockeys will be inspected prior to use.
Bolting Robot	Waste Handling	Preoperational	WP 05-WH1203 Mechanical Operability	Current	6/29/12	When waste disposal operations resume	Equipment is currently out of service.
Yard Transfer Vehicle	Waste Handling	Preoperational	WP 05-WH1205 Mechanical Operability, clear of obstacles and Guards in proper place	Current	6/12/14 (41-Z-021B)	N/A	There are two yard transfer vehicles (YTVs), but the pre-operational inspection was only performed on the one YTV listed. The other YTV will be inspected prior to use.
Payload Transfer Station	Waste Handling	Preoperational	WP 05-WH1208 Mechanical Operability, Deterioration, and Guards in proper place	Current	6/12/14 (41-Z-041)	N/A	

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use)[1]	Comments
Monorail Hoist	Waste Handling	Preoperational	WP 05-WH1202 Mechanical Operability, and leaks/spills	Current	6/12/14 (41-H-027)	N/A	
Bolting Station	Waste Handling	Preoperational	WP 05-WH1203 Mechanical Operability, Deterioration, and Guards in proper place	Current	6/12/14 (41-T-053A) (41-T-054A)	N/A	
Backup Power Supply Diesel Generators	Facility Operations	Monthly	WP 04-ED1301 Inspecting for Mechanical Operability and Leaks/Spills by starting and operating both generators. Results of this inspection are logged in accordance with WP 04-AD3008.	Current	5/25/14 (#1) 5/24/14 (#2)	N/A	
Central Monitoring System (CMS)	Facility Operations	Continuous	Automatic Self-Checking	Current	Automatic	N/A	
Mine Pager Phones (between surface and underground)	Facility Operations	Monthly	WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations	Not Current	1/30/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Public Address (and Intercom System) on Surface	Facility Operations	Monthly	WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations Systems operated in test mode	Current	5/29/14	N/A	
Public Address (and Intercom System) in Underground	Facility Operations	Monthly	WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations Systems operated in test mode	Not Current	1/30/14	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Radio Equipment	Facility Operations	Daily	Radios are operated daily and are repaired upon failure	Current	6/15/14	N/A	

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use)[1]	Comments
Uninterruptible Power Supply (Central UPS)	Facility Operations	Daily	WP 04-ED1542 Inspecting for Mechanical Operability and Deterioration with no malfunction alarms. Results of this inspection are logged in accordance with WP 04-AD3008.	Current	6/15/14	N/A	
Water Tank Level	Facility Operations	Daily	SDD-WD00 Inspecting for Deterioration, and water levels. Results of this inspection are logged in accordance with WP 04-AD3008.	Current	6/15/14	N/A	
Facility Inspections (Water Diversion Berms)	Facility Engineering	Annually	WP 10-WC3008 Inspecting for Damage, Impediments to water flow, and Deterioration	Current	9/25/13	N/A	
Eye Wash and Shower Equipment (Surface)	Equipment Custodian	Weekly	WP 12-IS1832 Inspecting for Deterioration	Current	6/2/14, 6/4/14, 6/5/14, 6/9/14, 6/10/14	N/A	
Eye Wash and Shower Equipment (Underground)	Equipment Custodian	Weekly	WP 12-IS1832 Inspecting for Deterioration	Not Current	N/A	1/31/16	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed. Inspection records are located in the underground and are, therefore, not accessible.
Perimeter Fence, Gates, Signs	Security	Daily	PF0-010 Inspecting for Deterioration and Posted Warnings	Current	6/15/14	N/A	
Underground— Geomechanical Instrumentation System (GIS)	Geotechnical Engineering	Monthly	WP 07-EU1301 Inspecting for Deterioration	Current	5/30/14	N/A	Partially complete at accessible areas.

System/Equipment Name	Responsible Organization	Inspection Frequency	Procedure Number and Inspection Criteria	Inspection Status (Current/ Not Current)	Date of Last Inspection	Proposed Start Date (if Not Current or Equipment Not in Use)[1]	Comments
Ventilation Exhaust	Maintenance Operations	Quarterly	IC041098 Check for Deterioration and Calibration of Mine Ventilation Rate Monitoring Equipment	Not Current	41F30703 Fan A (11/9/13) 41F30704 Fan B (5/20/13) 41F30702 Fan C (12/18/13)	1/31/16	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.

[1]Inspection proposed start date of 1/31/16 is an estimate from the WIPP Recovery Plan. Inspections may be initiated prior to 1/31/16 as work zones are released in the underground. Therefore, 1/31/16 is a "placeholder," and proposed start dates may be revised as recovery work progresses.

Attachment 2
TRU Mixed Waste Currently in Storage at the WIPP Facility

Site of Origin	Shipment	Receipt Date/Time	ICV Closure Date/Time	Venting Deadline	Venting Date	WHB Deadline	Assembly	Unemplaced Contents	Waste Volume[1] (ft^3)
SRS	SR140003	1/24/2014 12:40	1/16/2014 8:45	3/16/2014 8:45	2/1/2014 8:15	7/15/2014	SR139200	6-55G Drums	44.4
SRS	SR140003	1/24/2014 12:40	1/16/2014 8:45	3/16/2014 8:45	2/1/2014 8:15	7/15/2014	SR139201	7-55G Drums	51.8
SRS	SR140003	1/24/2014 12:40	1/16/2014 8:40	3/16/2014 8:40	2/1/2014 8:32	7/15/2014	SR139206	4-55G Drums	29.6
SRS	SR140003	1/24/2014 12:40	1/16/2014 8:40	3/16/2014 8:40	2/1/2014 8:34	7/15/2014	SR139207	7-55G Drums	51.8
LANL	LA140018	2/1/2014 1:30	1/29/2014 14:25	3/29/2014 14:25	2/1/2014 12:40	7/15/2014	LA139903	1 SWB	66.3
LANL	LA140019	2/1/2014 1:50	1/30/2014 15:20	3/30/2014 15:20	2/1/2014 14:25	7/15/2014	LA139927	1 SWB	66.3
LANL	LA140019	2/1/2014 1:50	1/30/2014 15:20	3/30/2014 15:20	2/1/2014 14:26	7/15/2014	LA139928	1 SWB	66.3
INL	IN140037	2/1/2014 21:11	1/30/2014 14:00	3/30/2014 14:00	2/2/2014 10:17	7/15/2014	IN139806	1 TDOP	160
INL	IN140037	2/1/2014 21:11	1/30/2014 14:03	3/30/2014 14:03	2/2/2014 10:24	7/15/2014	IN139814	1 TDOP	160
SRS	SR314011	1/28/2014 14:10	1/22/2014 8:30	3/22/2014 8:30	2/3/2014 12:14	7/15/2014	SR139781	1 SLB2	261
INL	IN140036	2/1/2014 22:40	1/25/2014 13:35	3/25/2014 13:35	2/3/2014 13:15	7/15/2014	IN139540	1 SWB	66.3
INL	IN140036	2/1/2014 22:40	1/25/2014 13:35	3/25/2014 13:35	2/3/2014 13:15	7/15/2014	IN139541	1 SWB	66.3
INL	IN140041	2/3/2014 7:13	1/31/2014 13:30	3/31/2014 13:30	2/3/2014 14:37	7/15/2014	IN140062	1 SWB	66.3
INL	IN140040	2/3/2014 0:17	1/31/2014 13:21	3/31/2014 13:21	2/4/2014 9:04	7/15/2014	IN140133	1 TDOP	160
INL	IN140041	2/3/2014 7:13	1/31/2014 13:40	3/31/2014 13:40	2/4/2014 9:31	7/15/2014	IN140129	1 TDOP	160
INL	IN140041	2/3/2014 7:13	1/31/2014 13:35	3/31/2014 13:35	2/4/2014 9:37	7/15/2014	IN139266	1 TDOP	160
INL	IN140040	2/3/2014 0:17	1/31/2014 13:13	3/31/2014 13:13	2/4/2014 12:22	7/15/2014	IN139593	1 SWB	66.3
INL	IN140040	2/3/2014 0:17	1/31/2014 13:16	3/31/2014 13:16	2/4/2014 12:55	7/15/2014	IN140144	1 TDOP	160
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:40	3/23/2014 10:40	2/4/2014 13:51	7/15/2014	SR139755	6-55G Drums	44.4
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:40	3/23/2014 10:40	2/4/2014 13:52	7/15/2014	SR139756	7-55G Drums	51.8
LANL	LA140020	2/3/2014 22:34	2/3/2014 10:00	4/3/2014 10:00	2/4/2014 16:38	7/15/2014	LA139983	1 SWB	66.3
LANL	LA140020	2/3/2014 22:34	2/3/2014 10:05	4/3/2014 10:05	2/4/2014 16:44	7/15/2014	LA139972	1 SWB	66.3
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:30	3/23/2014 10:30	2/4/2014 17:50	7/15/2014	SR139767	7-55G Drums	51.8
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:35	3/23/2014 10:35	2/4/2014 17:51	7/15/2014	SR139760	6-55G Drums	44.4
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:30	3/23/2014 10:30	2/4/2014 17:51	7/15/2014	SR139766	4-55G Drums	29.6

Site of Origin	Shipment	Receipt Date/Time	ICV Closure Date/Time	Venting Deadline	Venting Date	WHB Deadline	Assembly	Unemplaced Contents	Waste Volume[1] (ft^3)
SRS	SR140004	2/1/2014 15:45	1/23/2014 10:35	3/23/2014 10:35	2/4/2014 17:52	7/15/2014	SR139761	7-55G Drums	51.8
LANL	LA140020	2/3/2014 22:34	2/3/2014 10:15	4/3/2014 10:15	2/5/2014 8:34	7/15/2014	LA139965	1 SWB	66.3
LANL	LA140020	2/3/2014 22:34	2/3/2014 10:15	4/3/2014 10:15	2/5/2014 8:36	7/15/2014	LA139966	1 SWB	66.3
LANL	LA140021	2/4/2014 22:40	2/4/2014 9:35	4/4/2014 9:35	2/5/2014 9:12	7/15/2014	LA139990	1 SWB	66.3
LANL	LA140021	2/4/2014 22:40	2/4/2014 9:35	4/4/2014 9:35	2/5/2014 9:13	7/15/2014	LA139991	1 SWB	66.3
LANL	LA140021	2/4/2014 22:40	2/4/2014 9:25	4/4/2014 9:25	2/5/2014 9:32	7/15/2014	LA140008	1 SWB	66.3
INL	IN140043	2/5/2014 0:30	2/1/2014 11:30	4/1/2014 11:30	2/11/2014 9:12	7/15/2014	IN140096	1 SWB	66.3
INL	IN140043	2/5/2014 0:30	2/1/2014 11:30	4/1/2014 11:30	2/11/2014 9:13	7/15/2014	IN140097	1 SWB	66.3
LANL	LA140021	2/4/2014 22:40	2/4/2014 9:30	4/4/2014 9:30	2/11/2014 9:13	7/15/2014	LA140002	1 SWB	66.3
INL	IN140044	2/6/2014 1:09	2/3/2014 13:55	4/3/2014 13:55	2/11/2014 10:00	7/15/2014	IN139670	1 TDOP	160
INL	IN140044	2/6/2014 1:09	2/3/2014 13:52	4/3/2014 13:52	2/11/2014 10:43	7/15/2014	IN139666	1 TDOP	160
INL	IN140045	2/6/2014 1:27	2/3/2014 13:44	4/3/2014 13:44	2/11/2014 11:00	7/15/2014	IN140205	1 TDOP	160
INL	IN140045	2/6/2014 1:27	2/3/2014 13:40	4/3/2014 13:40	2/11/2014 11:02	7/15/2014	IN139923	1 TDOP	160
SRS	SR314012	1/31/2014 16:10	1/27/2014 10:48	3/27/2014 10:48	3/26/2014 9:33	7/15/2014	SR139785	1 SLB2	261
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:34	3/31/2014 12:34	3/26/2014 13:19	7/15/2014	SR139977	5-55G Drums	37
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:34	3/31/2014 12:34	3/26/2014 13:20	7/15/2014	SR139978	7-55G Drums	51.8
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:29	3/31/2014 12:29	3/26/2014 17:04	7/15/2014	SR139996	5-55G Drums	37
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:29	3/31/2014 12:29	3/26/2014 17:05	7/15/2014	SR139997	7-55G Drums	51.8
SRS	SR314013	2/1/2014 15:15	1/28/2014 10:40	3/28/2014 10:40	3/26/2014 18:30	7/15/2014	SR139789	1 SLB2	261
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:23	3/31/2014 12:23	3/26/2014 18:40	7/15/2014	SR140015	5-55G Drums	37
SRS	SR140005	2/5/2014 13:00	1/31/2014 12:23	3/31/2014 12:23	3/26/2014 18:43	7/15/2014	SR140016	7-55G Drums	51.8
INL	IN140044	2/6/2014 1:09	2/3/2014 13:49	4/3/2014 13:49	3/27/2014 10:31	7/15/2014	IN136332	7-55G Drums	51.8
INL	IN140043	2/5/2014 0:30	2/1/2014 11:35	4/1/2014 11:35	3/27/2014 12:48	7/15/2014	IN140078	1 SWB	66.3
INL	IN140043	2/5/2014 0:30	2/1/2014 11:35	4/1/2014 11:35	3/27/2014 12:50	7/15/2014	IN140079	1 SWB	66.3
SRS	SR314014	2/4/2014 13:15	1/30/2014 10:30	3/30/2014 10:30	3/27/2014 14:04	7/15/2014	SR139793	1 SLB2	261

Site of Origin	Shipment	Receipt Date/Time	ICV Closure Date/Time	Venting Deadline	Venting Date	WHB Deadline	Assembly	Unemplaced Contents	Waste Volume[1] (ft^3)
INL	IN140043	2/5/2014 0:30	2/1/2014 11:40	4/1/2014 11:40	3/27/2014 14:51	7/15/2014	IN140074	1 SWB	66.3
INL	IN140042	2/5/2014 0:34	2/1/2014 11:50	4/1/2014 11:50	3/27/2014 15:34	7/15/2014	IN140090	1 SWB	66.3
INL	IN140042	2/5/2014 0:34	2/1/2014 11:50	4/1/2014 11:50	3/27/2014 15:37	7/15/2014	IN140091	1 SWB	66.3
INL	IN140042	2/5/2014 0:34	2/1/2014 11:45	4/1/2014 11:45	3/27/2014 18:08	7/15/2014	IN140070	1 SWB	66.3
INL	IN140042	2/5/2014 0:34	2/1/2014 11:55	4/1/2014 11:55	3/27/2014 18:30	7/15/2014	IN140084	1 SWB	66.3
INL	IN140042	2/5/2014 0:34	2/1/2014 11:55	4/1/2014 11:55	3/27/2014 18:36	7/15/2014	IN140085	1 SWB	66.3
INL	IN140045	2/6/2014 1:27	2/3/2014 13:48	4/3/2014 13:48	3/27/2014 19:24	7/15/2014	IN140066	1 SWB	66.3
WIPP[2]	---	6/13/2014	6/13/2014	---	6/13/2014	8/12/2014	WISD002[3]	1 SWB	66.3
WIPP[2]	---	6/13/2014	6/13/2014	---	6/13/2014	8/12/2014	WISD003[3]	1 SWB	66.3
WIPP[2]	---	6/13/2014	6/13/2014	---	6/13/2014	8/12/2014	WISD004[3]	1 SWB	66.3
WIPP[2]	---	6/13/2014	6/13/2014	---	6/13/2014	8/12/2014	WISD005[3]	1 SWB	66.3
---	19 Shipments	---	---	---	---	---	---	148 Containers	5,402.6 ft^3

[1]55G Drum=7.4 ft^3, SWB=66.3 ft^3, TDOP=160 ft^3, 85G Drum=11.4 ft^3, 100G Drum=13.4 ft^3, SLB2=261 ft^3 (Permit Part 3, Section 3.3.1)

[2]Waste generated at the WIPP facility as a result of decontamination activities and characterized as derived waste (Permit Part 2, Section 2.3.5)

[3]Derived-waste container number

INL – Idaho National Laboratory

LANL – Los Alamos National Laboratory

SRS – Savannah River Site

SWB – standard waste box

SLB – standard large box

TDOP – ten-drum overpack

WHB – Waste Handling Building

Attachment 3
Ventilation Fans Inspection Round Sheets

Round Sheet Legend

Circled Numbers ②	Note numbers on the Comment Section of the Round Sheet
AR	Action Request
EFB	Exhaust Filter Building
I/S	In Service
MBP	Maintenance Bypass
Sec	Secured
STBY	Standby
Tag	Tagged Out
DP	Differential Pressure
″wc	Inches Water Column

Facility Site Operations and Infrastructure Ventilation Fans Round Sheet

DATE: 060214 – 060814

Location: 413, EXHAUST FILTER BLDG. UVFS FANS				DAY	SUN	MON		TUES		WED		THURS		FRI		SAT		SUN	
				SHIFT	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
				REVIEWER															
				FOT	C/O														
ITEM	MIN	NORM	MAX																
413-CP-056-01																			
CONTROL PANEL 860 FANS [A]		SAT [B]			1		1		1		1		1		1		1		1
413-CP-307-01B																			
CONTROL PANEL 700 FANS [A]		SAT [B]			2		2		2		2		2		2		2		2
35P-PBJ/1 @ Bldg. 365																			
860A U/G FILTRATION FAN (KSCFM)	[D]	[C] [D]	[D]		TAG	TAG	TAG	TAG	TAG	Tag	Tag	TAG	TAG	TAG	TAG	Tag	TAG	TAG	TAG
35P-PBJ/1 @ Bldg. 365																			
860B U/G FILTRATION FAN (KSCFM)	[D]	[C] [D]	[D]		SEC	sec	SEC	SEC	SEC	Sec	Sec	sec	sec	SEC	sec	SEC	SEC	SEC	SEC
35P-PBJ/1 @ Bldg. 365																			
860C U/G FILTRATION FAN (KSCFM)	[D]	[C] [D]	[D]		59.62	60.97	60.44	60.76	60.22	61.75	60.86	61.98	62.43	63.51	63.55	~~63.02~~ 63.02 060714	63.45	62.88	63.6
413-CP-307-01J																			
700A U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]		TAG	TAG	TAG	TAG	TAG	Tag	Tag	TAG	TAG	TAG	TAG	Tag	TAG	TAG	TAG
413-CP-307-01K																			
700B U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]		TAG	TAG	TAG	TAG	TAG	Tag	Tag	TAG	TAG	TAG	TAG	Tag	TAG	TAG	TAG
413-CP-307-01H																			
700C U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]		TAG	TAG	TAG	TAG	TAG	Tag	Tag	TAG	TAG	TAG	TAG	Tag	TAG	TAG	TAG

Original Signatures on File

NOTES: [A] - CHECK THAT THE AUDIBLE ALARM SOUNDS AND THE ALARM LIGHTS ILLUMINATE. [B] - IF NORMAL CONDITIONS EXIST, ENTER A CHECK MARK; OTHERWISE NOTE EXISTING CONDITION. [C] - FLOW READINGS TAKEN AT STA. B), (NOTE: EFB HVAC FLOW INCLUDED IN STA. B READING). [D] - VENTILATION MODES (chart below)

NORMAL MODE (flow per fan l/S) -	MIN = 202	NORM = 212	MAX = 223	MBP MODE w/ 1-860/1-700 FANS (combined flow of all fans l/S) - MIN = 200	MAX = 275
ALTERNATE MODE (flow per fan l/S) -	MIN = 247	NORM = 260	MAX = 273	MBP MODE w/ 1-860/2-700 FANS (combined flow of all fans l/S) - MIN = 395	MAX = 425
MINIMUM MODE (flow per fan l/S) -	MIN = 57	NORM = 60	MAX = 63	MBP MODE w/ 2-860/1-700 FANS (combined flow of all fans l/S) - MIN = 200	MAX = 275
REDUCED MODE (flow per fan l/S) -	MIN = 57	NORM = 60	MAX = 63	MBP MODE w/ 2-860/2-700 FANS (combined flow of all fans l/S) - MIN = 395	MAX = 425
FILTRATION MODE (flow per fan l/S) -	MIN = 57	NORM = 60	MAX = 63		

COMMENTS: (1) Low Flow Alarms – AR 1404207
(2) Alarm ODS – AR 1307584

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Facility Site Operations and Infrastructure Ventilation Fans Round Sheet

DATE: 060914-061514

Location: 413, EXHAUST FILTER BLDG. UVFS FANS	DAY	SUN	MON		TUES		WED		THURS		FRI		SAT		SUN	
	SHIFT	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
	REVIEWER		Original Signatures on File													
	FOT	C/O														

ITEM	MIN	NORM	MAX														
413-CP-056-01																	
CONTROL PANEL 860 FANS [A]		SAT [B]		1		1		1		1		1		1		1		1
413-CP-307-01B																	
CONTROL PANEL 700 FANS [A]		SAT [B]		2		2		2		2		2		2		2		2
35P-PBJ/1 @ Bldg. 365																	
860A U/G FILTRATION FAN (KSCFM)	[D]	[C] [D]	[D]	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG
35P-PBJ/1 @ Bldg. 365																	
860B U/G FILTRATION FAN (KSCFM)	[D]	[C] [D]	[D]	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC
35P-PBJ/1 @ Bldg. 365																	
860C U/G FILTRATION FAN (KSCFM)	[D]	[C] [D]	[D]	63.6	62.89	64	62.76	63.59	63.00	62.50	62.97	63.33	63.4	63.63	62.91	63.11	62.8	62.24
413-CP-307-01J																	
700A U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG
413-CP-307-01K																	
700B U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG
413-CP-307-01H																	
700C U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG	TAG

NOTES: [A] - CHECK THAT THE AUDIBLE ALARM SOUNDS AND THE ALARM LIGHTS ILLUMINATE. [B] - IF NORMAL CONDITIONS EXIST, ENTER A CHECK MARK; OTHERWISE NOTE EXISTING CONDITION. [C] - FLOW READINGS TAKEN AT STA. B), (NOTE: EFB HVAC FLOW INCLUDED IN STA. B READING). [D] - VENTILATION MODES (chart below)

NORMAL MODE (flow per fan l/S) -	MIN = 202	NORM = 212	MAX = 223	MBP MODE w/ 1-860/1-700 FANS (combined flow of all fans l/S) - MIN = 200	MAX = 275
ALTERNATE MODE (flow per fan l/S) -	MIN = 247	NORM = 260	MAX = 273	MBP MODE w/ 1-860/2-700 FANS (combined flow of all fans l/S) - MIN = 395	MAX = 425
MINIMUM MODE (flow per fan l/S) -	MIN = 57	NORM = 60	MAX = 63	MBP MODE w/ 2-860/1-700 FANS (combined flow of all fans l/S) - MIN = 200	MAX = 275
REDUCED MODE (flow per fan l/S) -	MIN = 57	NORM = 60	MAX = 63	MBP MODE w/ 2-860/2-700 FANS (combined flow of all fans l/S) - MIN = 395	MAX = 425
FILTRATION MODE (flow per fan l/S) -	MIN = 57	NORM = 60	MAX = 63		

COMMENTS: (1) LOW FLOW ALARM. AR 1404207
(2) ALARM 005. AR 1307584

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Facility Site Operations and Infrastructure WHB CH Room D/P / HVAC / Air Dryer Round Sheet

Date: 060214 - 060814

Location:	DAY	SUN	MON		TUES		WED		THURS		FRI		SAT		SUN	
COMPUTER STATIONS	SHIFT	2	1	2	1	A	1	A	1	A	1	2	1	2	1	2
CMR, FSM DESK, LOCAL	REVIEWER															
411, WHB MECH EQUIP RM 200 & 208	FOT	C/O														

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ITEM	MIN	NORM	MAX	SUN	MON		TUES		WED		THURS		FRI		SAT		SUN	
WHB CH ROOM DPs																		
SHIELDED STORAGE RM PDD-026A "wc				(1)	(1)		-.10		-.11		-.10		-.1		-.1		-.09	
CH AREA ROOM 103 PDD-026B "wc	-0.02						-.11		-.11		-.12		-.11		-.1		-.1	
SITE GEN WASTE RM. PDD-026C "wc							0		-.01		-.01		-.02		-.04		-.02	
EQUIP DECON RM. PDD-026D "wc							-.09		-.07		-.08		-.09		-.06		-.08	
OVERPACK & REPAIR RM PDD-026E "wc	-0.04						-.12		-.10		-.11		-.12		-.11		-.13	
CAGE LOADING ROOM PDD-006 "wc							.08		.02		.01		.02		-.01		.01	
AIRLOCK ROOM 107 PDD-007 "wc							-.11		-.07		-.05		-.06		-.08		-.07	
HVAC CONTROL PANEL CHECKS																		
411-CP-052-15 (835/836 EXH FANS)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-063-16 (861/863 AHUS)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-052-14 (813/817 CH TRAIN)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-052-13 (812/816 CH TRAIN)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
WASTE HANDLING BUILDING AIR DRYER																		
K-015 OUTLET (PSI)	95		135	116	115	116	116	115	120	118	121	120	120	118	120	117	118	120
K-015 AQUADEX INDICATOR		BLUE [A]		(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
K-015 AUTO BLOWDOWNS /TEST		SAT [A]		✓		✓		✓		✓		✓		✓		✓		✓
K-015 DRYER MODE		AMLOC [A]		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

NOTES: [A] - IF NORMAL CONDITIONS EXIST, ENTER A CHECK MARK; OTHERWISE NOTE EXISTING CONDITION.

COMMENTS: (1) SATCOMM? - FSM, COG ENG INFORMED
(2) PINK - MR 1405709

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Facility Site Operations and Infrastructure WHB CH Room D/P / HVAC / Air Dryer Round Sheet

Date: 060914-061514

Location:		DAY		SUN	MON		TUES		WED		THURS		FRI		SAT		SUN	
COMPUTER STATIONS		SHIFT		2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
CMR, FSM DESK, LOCAL		REVIEWER			Original Signatures on File													
411, WHB MECH EQUIP RM 200 & 208		FOT		C/O														
ITEM	MIN	NORM	MAX															
WHB CH ROOM DPs																		
SHIELDED STORAGE RM PDD-026A "wc				-.09	-.09		-.11		-.08		-.08		-.08		-.11		-.11	
CH AREA ROOM 103 PDD-026B "wc	-0.02			-.1	-.1		-.10		-.08		-.10		-.1		-.10		-.11	
SITE GEN WASTE RM. PDD-026C "wc				-.02	-.02		-.03		-.01		-.01		-.01		-.01		-.03	
EQUIP DECON RM. PDD-026D "wc				-.08	-.06		-.08		-.07		-.07		-.08		-.07		-.09	
OVERPACK & REPAIR RM PDD-026E "wc	-0.04			-.13	-.10		-.11		-.11		-.11		-.12		-.11		-.13	
CAGE LOADING ROOM PDD-006 "wc				.01	.01		.01		0		0		0		.05		.05	
AIRLOCK ROOM 107 PDD-007 "wc				-.07	-.07		-.07		-.08		-.07		-.07		-.09		-.08	
HVAC CONTROL PANEL CHECKS																		
411-CP-052-15 (835/836 EXH FANS)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-063-16 (861/863 AHUS)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-052-14 (813/817 CH TRAIN)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-052-13 (812/816 CH TRAIN)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
WASTE HANDLING BUILDING AIR DRYER																		
K-015 OUTLET (PSI)	95		135	120	118	119	118	118	119	118	118	118	118	118	119	118	116	118
K-015 AQUADEX INDICATOR		BLUE [A]		①	①	①	①	①	①	①	①	①	①	①	①	①	①	①
K-015 AUTO BLOWDOWNS /TEST		SAT [A]		✓		✓		✓		✓		✓		✓		✓		✓
K-015 DRYER MODE		AMLOC [A]		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

NOTES: [A] - IF NORMAL CONDITIONS EXIST, ENTER A CHECK MARK; OTHERWISE NOTE EXISTING CONDITION.

COMMENTS: ① PINK. AR 1405709

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Facility Site Operations and Infrastructure RH Room D/P and HVAC Panel Round Sheet

Date: 060214 - 061514

Location:			DAY		SUN	MON		TUES		WED		THURS		FRI		SAT		SUN	
COMPUTER STATIONS			SHIFT		2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
CMR, FSM DESK, LOCAL			REVIEWER			Original Signatures on File													
411, WHB MECH EQUIP RM 200 & 208			FOT		C/O														
ITEM		MIN	NORM	MAX															
RH ROOM DPs																			
OPERATING GALLERY	PDD-01 "wc				SEC (1)	Sec (1)		SEC		Sec		Sec		Sec		Sec		Sec	
MANIP. REPAIR RM.	PDD-21A "wc																		
FILTER GALLERY	PDD-21B "wc																		
CASK LOADING RM.	PDD-21C "wc																		
CASK TRANSFER CELL	PDD-21D "wc																		
WASTE HOIST OPER RM	PDD-21G "wc																		
SERVICE ROOM	PDD-21H "wc	-0.00		-0.15															
RH BAY	PDD-21F "wc	0.02		0.7															
HOT CELL	PDT-52 "wc	-0.04		-1.1															
HVAC CONTROL PANEL CHECKS																			
411-CP-051-10	(803/805 AHU/EXH FANS)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-051-11	(804/806 AHU/EXH FANS)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-051-12	(878 A/B EXH FANS)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-058-17	(807 AHU FAN)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	

NOTES: [A] - IF NORMAL CONDITIONS EXIST, ENTER A CHECK MARK; OTHERWISE NOTE EXISTING CONDITION.

COMMENTS: ① Silver wire ? Fsm, Cor eng. informed

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Facility Site Operations and Infrastructure RH Room D/P and HVAC Panel Round Sheet

Date: 060914-061514

Location:			DAY	SUN	MON		TUES		WED		THURS		FRI		SAT		SUN	
COMPUTER STATIONS			SHIFT	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
CMR, FSM DESK, LOCAL			REVIEWER		Original Signatures on File													
411, WHB MECH EQUIP RM 200 & 208			FOT	C/O														
ITEM	MIN	NORM	MAX															
RH ROOM DPs																		
OPERATING GALLERY PDD-01 "wc				SEC	SEC		Sec		Sec		.12		.12		.11		.1	
MANIP. REPAIR RM. PDD-21A "wc											-.15		-.14		-.14		-.15	
FILTER GALLERY PDD-21B "wc											-.11		-.11		-.10		-.1	
CASK LOADING RM. PDD-21C "wc											-.19		-.19		-.18		-.2	
CASK TRANSFER CELL PDD-21D "wc											-.30		-.29		-.30		-.3	
WASTE HOIST OPER RM PDD-21G "wc											-.02		.07		-.04		-.02	
SERVICE ROOM PDD-21H "wc	-0.00		-0.15								-.14		-.13		-.14		-.14	
RH BAY PDD-21F "wc	0.02		0.7								.04		.04		.05		.04	
HOT CELL PDT-52 "wc	-0.04		-1.1								-.65		-.65		-.65		-.6	
HVAC CONTROL PANEL CHECKS																		
411-CP-051-10 (803/805 AHU/EXH FANS)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-051-11 (804/806 AHU/EXH FANS)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-051-12 (878 A/B EXH FANS)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	
411-CP-058-17 (807 AHU FAN)		SAT [A]		✓	✓		✓		✓		✓		✓		✓		✓	

NOTES: [A] - IF NORMAL CONDITIONS EXIST, ENTER A CHECK MARK; OTHERWISE NOTE EXISTING CONDITION.

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Attachment 4
Environmental Monitoring

- VOC Monitoring Meteorological Monitoring
- Meteorological Monitoring
- Radiological Monitoring
  - Environmental Air Sampling
  - Soil Sampling
  - Surface Water Sampling
  - Sediment Sampling
  - Biota (Vegetation) Sampling
  - Biota (Fauna) Sampling
  - Salt Sampling

VOC Sampling Locations

Validated VOC Monitoring Data – Surface Sampling at the WIPP

analytical services by Carlsbad Environmental Monitoring & Research Center (CEMRC)

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)*	Concentration (ppbv)
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	5/14/2014	5/19/2014	8982	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Toluene	108-88-3	0.4	0.06 J
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Acetone	67-64-1		0.62 NJ
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Butane	106-97-8		1.62 NJ
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Dichlorodifluoromethane	75-71-8		0.42 NJ
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Pentane	109-66-0		0.58 NJ
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Propane	74-98-6		1.88 NJ
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.36 J
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Toluene	108-88-3	0.4	0.06 J
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U

Qualifiers:

J = Estimated value; below laboratory's method reporting limit (MRL), but above method detection limit (MDL).
U = Compound not detected above the MDL.
NJ = Presumptive evidence of the presence of the compound at an estimated quantity; only used for tentatively identified compounds (TICs).

Notes:

(1) Starting with samples collected on or after May 12, 2014, trichloroethylene (TCE) is a target analyte in compliance with Administrative Order dated 5/12/2014. For samples collected before 5/12/2014, TCE is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis.

* A value will not appear in the MRL column for TICs.

6/2/2014 2:25 PM

Validated VOC Monitoring Data – Surface Sampling at the WIPP

analytical services by Carlsbad Environmental Monitoring & Research Center (CEMRC)

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)*	Concentration (ppbv)
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Acetone	67-64-1		0.72 NJ
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Butane	106-97-8		1.62 NJ
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.44 NJ
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Isobutane	75-28-5		0.84 NJ
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Propane	74-98-6		1.78 NJ
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	5/15/2014	5/19/2014	8984	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Toluene	108-88-3	0.4	0.2 J
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Butane	106-97-8		4.72 NJ
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Isobutane	75-28-5		2.56 NJ
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Pentane	109-66-0		2.26 NJ
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Propane	74-98-6		4.6 NJ

Qualifiers:

J = Estimated value; below laboratory's method reporting limit (MRL), but above method detection limit (MDL).
U = Compound not detected above the MDL.
NJ = Presumptive evidence of the presence of the compound at an estimated quantity; only used for tentatively identified compounds (TICs).

Notes:

(1) Starting with samples collected on or after May 12, 2014, trichloroethylene (TCE) is a target analyte in compliance with Administrative Order dated 5/12/2014. For samples collected before 5/12/2014, TCE is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis.

* A value will not appear in the MRL column for TICs.

Validated VOC Monitoring Data – Surface Sampling at the WIPP

analytical services by Carlsbad Environmental Monitoring & Research Center (CEMRC)

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)*	Concentration (ppbv)
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.3 J
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Toluene	108-88-3	0.4	0.18 J
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Trichloroethylene (1)	79-01-6	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Butane	106-97-8		4.8 NJ
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Isobutane	75-28-5		2.58 NJ
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Nonanal	124-19-6		0.54 NJ
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Pentane	109-66-0		2.24 NJ
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Propane	74-98-6		4.86 NJ

Qualifiers:

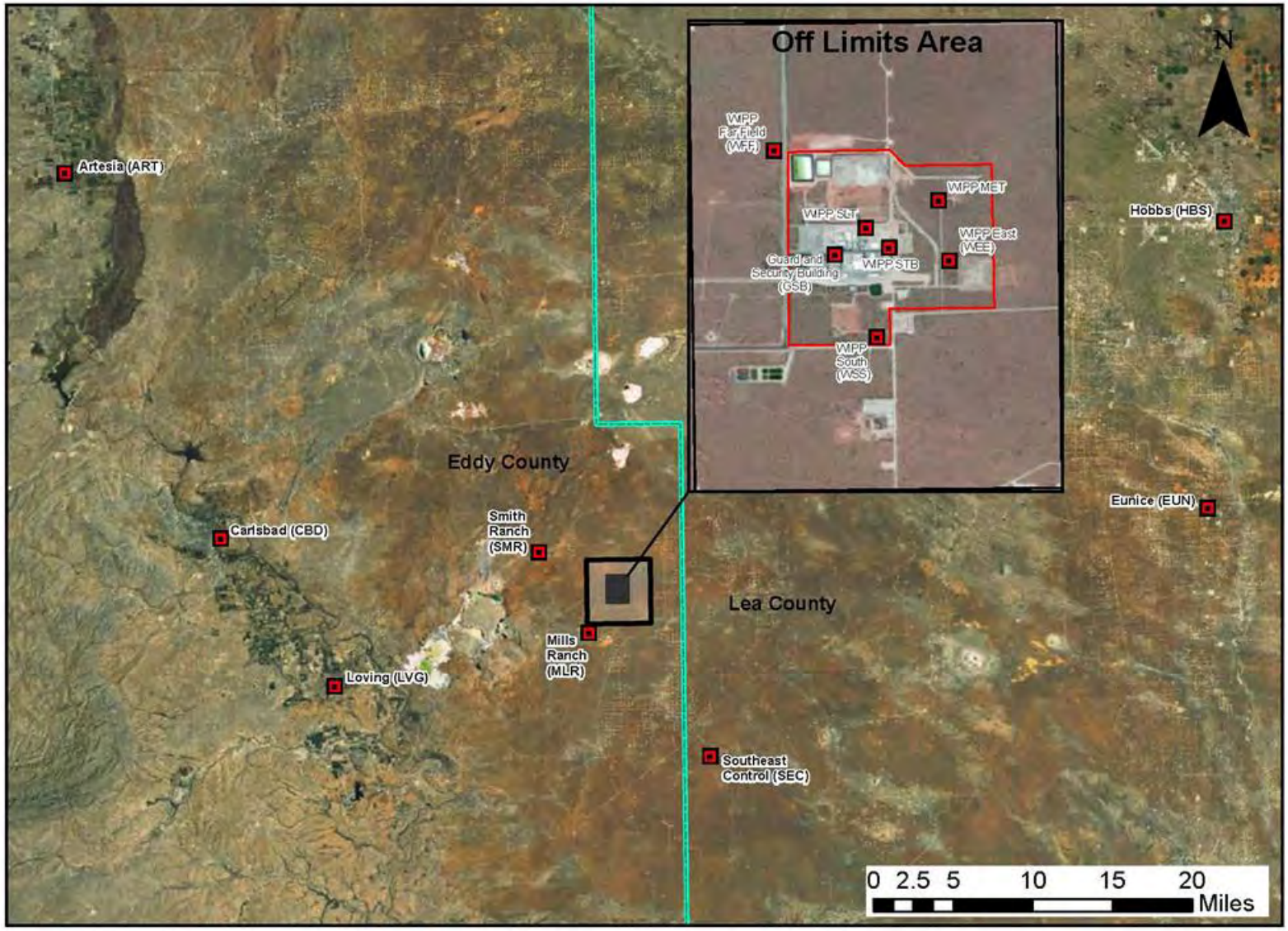
J = Estimated value; below laboratory's method reporting limit (MRL), but above method detection limit (MDL).
U = Compound not detected above the MDL.
NJ = Presumptive evidence of the presence of the compound at an estimated quantity; only used for tentatively identified compounds (TICs).

Notes:

(1) Starting with samples collected on or after May 12, 2014, trichloroethylene (TCE) is a target analyte in compliance with Administrative Order dated 5/12/2014. For samples collected before 5/12/2014, TCE is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis.

* A value will not appear in the MRL column for TICs.

6/2/2014 2:25 PM



Location of Sampling Sites for Low Volume Air Sampling, Soil Sampling, Biota, and Meteorological Monitoring

Meteorological Data Acronyms and Definitions

Date & Time	Self-explanatory
Day	Numeric identifier
15 min	Time interval of data
Juli date	Julian date (day-of-year number)
2WS m/s	2-meter wind speed in meters per second
2WD Deg	2-meter wind direction in degrees
2SD	2-meter standard deviation
10WS m/s	10-meter wind speed in meters per second
10WD Deg	10-meter wind direction in degrees
10SD	10-meter standard deviation
50WS m/s	50-meter wind speed in meters per second
50WD Deg	50-meter wind direction in degrees
50SD	50-meter standard deviation

2M T Deg C	2-meter temperature in degrees Celsius
10M T Deg C	10-meter temperature in degrees Celsius
50M T Deg C	50-meter temperature in degrees Celsius
10 DT	10-meter differential temperature (2M T minus 10M T)
50 DT	50-meter differential temperature (2M T minus 50M T)
RH %	Relative humidity as percentage
DPT Deg C	Dew point in degrees Celsius
SR	Solar Radiation
BP mB	Barometric pressure in millibars
prcp mm	Precipitation in millimeters

Note 1: The differential temperature columns (10DT and 50DT) are 10-meter or 50-meter temperatures subtracted from the 2-meter temperature reading. Negative values indicate the 10- or 50-meter temperatures are greater than the corresponding 2-meter temperature.

Note 2: The dew point is a number generated by the Met station based on the recorded relative humidity and temperature readings. Dew point is the temperature at which the water in the air will condense to liquid. This temperature can be very low at times, including a negative temperature. The Met system is programmed to display a temperature as low as -30 degrees Celsius.

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/2/2014 0:15	67071	15	153	3.324	149.1	12.9	5.135	141.8	8.5	7.992	137.6	6.052	25.31	25.72	25.75	0.414	0.447	48.64	13.73	1.411	885	0
6/2/2014 0:30	67072	15	153	3.853	138.9	12.71	5.851	134	7.51	8.95	132.3	4.581	25.12	25.55	25.7	0.436	0.578	49.36	13.79	1.758	885	0
6/2/2014 0:45	67073	15	153	2.718	142.3	16.95	4.289	134.8	12.23	7.604	129.6	5.99	24.78	25.23	25.43	0.446	0.649	50.32	13.78	1.273	885	0
6/2/2014 1:00	67074	15	153	2.272	139.8	13.38	3.856	131.9	8.27	7.217	128.6	3.497	24.12	24.67	25.19	0.549	1.07	52.13	13.7	1.24	885	0
6/2/2014 1:15	67075	15	153	2.203	141	12.15	3.796	134.1	7.959	7.068	130.5	4.053	23.79	24.39	24.96	0.597	1.171	53.33	13.76	1.391	885	0
6/2/2014 1:30	67076	15	153	2.154	146.5	12.06	3.799	139.8	7.083	7.013	135	3.371	23.35	24.05	24.69	0.702	1.347	54.97	13.81	1.275	885	0
6/2/2014 1:45	67077	15	153	2.974	143.8	12.35	5.146	138.3	7.078	8.54	136.2	3.349	23.29	23.9	24.59	0.613	1.297	55.67	13.95	1.476	885	0
6/2/2014 2:00	67078	15	153	3.523	143.3	14.37	5.454	136.1	10.23	7.922	133.4	6.161	23.55	24.07	24.44	0.514	0.891	54.65	13.91	1.364	885	0
6/2/2014 2:15	67079	15	153	2.744	142.1	11.7	4.542	135.5	6.787	7.671	133.9	3.607	23.01	23.61	24.19	0.601	1.185	56.61	13.95	1.3	886	0
6/2/2014 2:30	67080	15	153	2.604	144.5	12.91	4.362	136	7.894	7.7	133.5	3.366	22.83	23.4	24	0.573	1.176	57.45	14	1.462	886	0
6/2/2014 2:45	67081	15	153	1.526	154.8	20.18	2.854	141	12.44	6.526	134.2	4.174	22.63	23.18	23.84	0.543	1.206	58.33	14.06	1.153	886	0
6/2/2014 3:00	67082	15	153	0.608	105.7	81.7	0.93	121	52.15	4.061	127.1	7.819	22.44	22.93	23.19	0.491	0.753	59.19	14.1	0.969	886	0
6/2/2014 3:15	67083	15	153	1.594	156.6	16.39	2.263	148.8	11.88	5.059	133.5	5.824	21.8	22.71	23.01	0.911	1.21	61.12	13.99	1.148	886	0
6/2/2014 3:30	67084	15	153	0.775	179.5	67.82	1.684	153.1	17.1	4.963	136.9	7.459	21.27	22.06	22.97	0.793	1.699	63.92	14.19	0.997	886	0
6/2/2014 3:45	67085	15	153	0.898	139.9	84.6	1.606	126.7	32.3	3.75	129.6	10.16	21.25	22.16	22.61	0.915	1.364	63.65	14.1	0.929	886	0
6/2/2014 4:00	67086	15	153	1.088	141.6	65.99	1.62	140.6	40.11	3.454	134.3	7.426	20.78	21.98	22.49	1.198	1.713	65.21	14.02	0.697	886	0
6/2/2014 4:15	67087	15	153	0.848	172.9	57.47	1.327	161.9	32.03	3.258	146.8	6.219	19.84	21.57	22.24	1.733	2.402	69.09	14.02	0.739	887	0
6/2/2014 4:30	67088	15	153	0.509	235.2	86.3	1.415	169.3	14	3.386	155.9	3.185	19.31	21.35	22.07	2.038	2.765	72.03	14.16	0.781	887	0
6/2/2014 4:45	67089	15	153	0.669	154.4	19.63	1.437	170.7	11.51	3.579	163.5	6.653	18.56	20.94	22.14	2.386	3.581	73.38	13.72	1.789	887	0
6/2/2014 5:00	67090	15	153	0.58	181.3	38.73	1.81	193.9	15.15	2.698	187.8	11.26	17.57	20.83	21.84	3.258	4.266	78	13.71	7.99	887	0
6/2/2014 5:15	67091	15	153	0.567	358.7	51.85	1.263	246.2	17.47	2.612	216.5	6.859	17.31	20.47	21.31	3.166	4.009	81	14.04	31.78	887	0
6/2/2014 5:30	67092	15	153	0.819	50.58	29.08	0.932	256.4	49.53	2.699	212.4	14.14	17.41	20.22	21.44	2.808	4.025	82.1	14.34	76.22	887	0
6/2/2014 5:45	67093	15	153	0.619	76.06	39.82	1.218	140.2	20.31	2.656	183.1	6.51	19.44	20.75	22.12	1.316	2.685	77.06	15.32	130.1	888	0
6/2/2014 6:00	67094	15	153	0.351	161	55.04	0.82	138.5	21.55	2.344	191.4	3.019	21.26	21.35	22.15	0.091	0.896	69.54	15.47	190.5	888	0
6/2/2014 6:15	67095	15	153	1.123	186.4	29.62	1.345	186	26.77	2.123	220.4	16.92	22.42	22.26	22.32	-0.163	-0.101	63.03	15.05	255.4	888	0
6/2/2014 6:30	67096	15	153	1.355	256.3	25.49	1.634	250.7	25.85	2.247	256.6	14.44	23.25	22.96	22.47	-0.296	-0.787	58.79	14.76	322.4	888	0
6/2/2014 6:45	67097	15	153	1.704	267.4	18.16	2.203	264.7	14.74	2.395	263.2	9.46	23.84	23.44	22.96	-0.397	-0.875	55.86	14.51	389.1	888	0
6/2/2014 7:00	67098	15	153	1.617	276.2	19.99	1.9	276.4	18.1	2.044	269.8	18.11	24.26	23.88	23.39	-0.382	-0.869	53.87	14.34	455.3	888	0
6/2/2014 7:15	67099	15	153	1.781	283.1	17.44	2.055	281	16.33	2.461	276.6	14.02	24.79	24.43	23.82	-0.357	-0.966	52.01	14.29	521	888	0
6/2/2014 7:30	67100	15	153	2.078	285.9	15.91	2.387	286.8	10.38	2.656	280.4	8.52	25.35	24.95	24.41	-0.409	-0.949	50.28	14.29	585.5	888	0
6/2/2014 7:45	67101	15	153	2.298	298.2	17.57	2.425	294.3	13.74	2.647	290.2	10.03	26.07	25.64	24.94	-0.43	-1.135	46.23	13.64	649.7	889	0
6/2/2014 8:00	67102	15	153	3.261	315.2	16.47	3.724	310.6	12	4.179	305.5	10.02	26.59	26.02	25.33	-0.567	-1.262	42.05	12.65	712.8	889	0
6/2/2014 8:15	67103	15	153	3.435	314.5	17.92	3.998	311.7	13.71	4.104	308	9.58	27.6	26.9	26.2	-0.699	-1.4	36.01	11.18	759.7	889	0
6/2/2014 8:30	67104	15	153	3.74	313	12.82	4.152	310.7	10.02	4.513	305.6	7.083	28.6	27.96	27.14	-0.642	-1.46	28.58	8.62	831	889	0
6/2/2014 8:45	67105	15	153	4.071	329	15.22	5.293	325.6	10.28	5.965	316.8	8.24	29.47	28.7	28.02	-0.773	-1.456	24.16	6.893	903	889	0
6/2/2014 9:00	67106	15	153	4.165	318.7	14.63	5.135	316.8	11.45	6.329	313.6	8.7	30.93	30.05	29.18	-0.872	-1.744	18.54	4.12	960	889	0
6/2/2014 9:15	67107	15	153	3.279	327.7	19.03	4.216	326.3	16.69	5.185	320	12.79	31.78	30.89	29.93	-0.887	-1.845	14.78	1.765	993	889	0
6/2/2014 9:30	67108	15	153	3.645	319.3	20.66	4.444	319.2	16.71	5.18	313.5	12.75	32.63	31.75	30.79	-0.875	-1.839	13.53	1.194	997	889	0
6/2/2014 9:45	67109	15	153	4.217	331.4	16.34	5.538	329.2	14.01	6.435	323.5	9.98	33.02	32.12	31.22	-0.898	-1.799	12.16	0.016	1071	889	0
6/2/2014 10:00	67110	15	153	3.497	333.3	18.39	4.591	329.6	14.52	5.221	322.3	12.82	33.63	32.61	31.75	-1.019	-1.875	12.06	0.372	1137	889	0
6/2/2014 10:15	67111	15	153	3.618	336.9	17.69	4.913	334.5	12.7	5.745	330.4	12.07	34.2	33.04	32.17	-1.155	-2.023	11.61	0.287	1170	889	0
6/2/2014 10:30	67112	15	153	4.029	344.4	20.09	5.469	344.3	15.55	6.33	338	11.35	34.9	33.67	32.66	-1.23	-2.243	10.62	-0.4	1202	889	0
6/2/2014 10:45	67113	15	153	3.843	345.2	16.68	5.34	342.6	13.12	6.264	337.4	11.82	35.43	34.07	33.11	-1.367	-2.324	10.54	-0.101	1228	889	0
6/2/2014 11:00	67114	15	153	4.177	355.1	18.51	5.577	350.9	16.78	6.617	342.7	14.6	35.74	34.48	33.47	-1.261	-2.273	10.57	0.176	1254	889	0
6/2/2014 11:15	67115	15	153	4.111	0.991	19.01	5.504	360	15.68	6.419	356.2	14.95	36.08	34.76	33.81	-1.323	-2.275	10.82	0.747	1270	889	0
6/2/2014 11:30	67116	15	153	3.556	7.121	27.82	4.899	5.199	23.53	5.758	358.3	18.75	36.51	35.11	34.23	-1.409	-2.286	11.01	1.325	1283	888	0
6/2/2014 11:45	67117	15	153	3.216	21.96	34.37	4.27	17.94	28.19	5.089	13.27	20.28	36.87	35.61	34.57	-1.26	-2.295	10.1	0.356	1288	888	0
6/2/2014 12:00	67118	15	153	2.976	357.8	23.15	4.127	359.6	18.02	5.177	355.8	16.92	37.24	35.98	34.98	-1.26	-2.266	10.51	1.213	1286	888	0
6/2/2014 12:15	67119	15	153	3.185	9.03	30.17	4.394	8.06	24.3	5.257	4.798	20.88	37.61	36.23	35.36	-1.382	-2.25	11.12	2.29	1283	888	0
6/2/2014 12:30	67120	15	153	3.947	21.73	23.21	5.538	19.69	18.68	6.392	16.96	17.79	38.08	36.67	35.5	-1.403	-2.58	11.89	3.572	1271	888	0
6/2/2014 12:45	67121	15	153	2.926	14.23	32.36	4.055	12.1	24.29	5.151	9.22	17.22	37.51	36.23	35.37	-1.281	-2.135	12.48	3.815	1257	888	0
6/2/2014 13:00	67122	15	153	3.512	40.92	34.88	4.732	34.32	28.71	5.405	31.54	25.48	37.42	36.12	35.16	-1.303	-2.262	12.99	4.351	1237	888	0
6/2/2014 13:15	67123	15	153	3.434	53.12	37.54	4.541	51.81	31.65	5.667	49.28	22.32	37.62	36.48	35.42	-1.145	-2.199	13.6	5.161	1212	888	0
6/2/2014 13:30	67124	15	153	2.797	82.8	29.38	3.581	78.16	28.05	4.344	65.67	24.55	37.66	36.63	35.75	-1.029	-1.903	13.2	4.769	1186	888	0
6/2/2014 13:45	67125	15	153	3.265	9.8	27.96	4.254	6.272	19.78	5.073	7.615	14.49	37.71	36.54	35.51	-1.173	-2.207	13.18	4.794	1164	888	0
6/2/2014 14:00	67126	15	153	1.956	349.3	71.37	2.392	353.5	62.27	2.827	357.2	51.41	37.43	36.67	35.76	-0.751	-1.67	13.15	4.54	1128	888	0
6/2/2014 14:15	67127	15	153	3.346	12.66	25.08	4.635	8.07	19.68	5.327	8.61	14.16	38	36.83	35.86	-1.175	-2.143	12.76	4.559	1095	887	0
6/2/2014 14:30	67128	15	153	2.092	349.7	40.02	2.709	349.7	35.94	3.319	355.4	32.46	37.68	36.8	36.04	-0.881	-1.646	12.98	4.542	1047	887	0
6/2/2014 14:45	67129	15	153	3.07	33.15	33.62	4.084	27.21	25.66	4.558	22.72	18.71	37.75	36.72	35.85	-1.027	-1.9	13.17	4.815	1002	887	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/2/2014 15:00	67130	15	153	2.354	33.95	31.17	3.164	37.89	20.84	3.26	34.98	29.83	37.55	36.67	35.95	-0.875	-1.601	13	4.464	941	887	0
6/2/2014 15:15	67131	15	153	2.984	32.22	29.02	4.077	27.63	21.04	4.815	26.88	12.94	37.7	36.76	35.93	-0.94	-1.771	13.29	4.91	910	887	0
6/2/2014 15:30	67132	15	153	3.159	36.62	29.64	4.276	34.05	26.08	5.074	32.33	21.68	37.99	37.08	36.15	-0.905	-1.838	12.56	4.311	853	887	0
6/2/2014 15:45	67133	15	153	2.367	81.6	56.43	3.088	71.01	44.78	3.654	55.76	30.73	37.6	36.9	36.24	-0.7	-1.366	12.69	4.164	787.3	887	0
6/2/2014 16:00	67134	15	153	3.019	53.82	29.25	4.267	48.44	25.25	5.188	43.02	20.01	37.93	37.1	36.2	-0.826	-1.731	13.05	4.82	729.6	887	0
6/2/2014 16:15	67135	15	153	2.51	54.21	20.63	3.286	50.02	17.12	3.793	50.39	15.31	37.75	37.07	36.36	-0.674	-1.393	12.12	3.629	672.9	887	0
6/2/2014 16:30	67136	15	153	2.676	20.52	31.66	3.725	13.24	26.37	4.713	6.643	24.37	37.66	37.08	36.32	-0.584	-1.342	12.57	4.077	617.1	887	0
6/2/2014 16:45	67137	15	153	2.714	15.87	19.63	3.793	12.77	12.54	4.457	11.07	12.67	37.52	36.96	36.28	-0.56	-1.24	11.97	3.276	548.2	887	0
6/2/2014 17:00	67138	15	153	3.289	42.87	17.07	4.681	40.23	12.34	5.753	37.95	10.53	37.56	37.08	36.37	-0.481	-1.191	11.98	3.32	483.2	887	0
6/2/2014 17:15	67139	15	153	3.743	44.13	13.79	5.474	41.97	9.2	6.328	38.09	7.592	37.3	36.91	36.26	-0.388	-1.043	12.24	3.421	414.6	887	0
6/2/2014 17:30	67140	15	153	3.392	41.17	17.36	4.985	37.59	11.34	6.055	34.36	7.967	36.98	36.72	36.14	-0.263	-0.84	12.6	3.587	339.2	887	0
6/2/2014 17:45	67141	15	153	3.18	41	13.69	4.911	36.91	9.28	6.002	34.41	9.12	36.71	36.64	36.1	-0.076	-0.617	12.52	3.292	269.6	887	0
6/2/2014 18:00	67142	15	153	3.679	48.24	14.52	5.303	45.03	9.7	6.625	42.17	6.02	36.48	36.51	35.97	0.027	-0.51	12.16	2.696	228.1	887	0
6/2/2014 18:15	67143	15	153	3.559	50.02	13.41	5.436	46.29	8.39	6.911	44.33	5.686	36.04	36.23	35.8	0.183	-0.24	11.96	2.121	161	887	0
6/2/2014 18:30	67144	15	153	3.209	53.48	12.86	5.029	48.85	8.3	6.954	45.31	4.986	35.48	35.86	35.63	0.377	0.152	12.7	2.537	97.6	887	0
6/2/2014 18:45	67145	15	153	2.91	56.1	10.87	4.609	53.11	6.291	7.007	51.12	2.746	34.57	35.27	35.45	0.695	0.873	13.34	2.518	25.31	887	0
6/2/2014 19:00	67146	15	153	2.086	61.94	8.94	3.887	58.06	5.152	7.012	54.27	2.578	32.94	34.17	35.03	1.223	2.087	15.65	3.482	8.34	887	0
6/2/2014 19:15	67147	15	153	2.354	68.48	8.79	4.325	63.88	4.457	7.978	57.24	1.805	32.06	33.35	34.68	1.297	2.626	17.39	4.286	2.38	887	0
6/2/2014 19:30	67148	15	153	2.57	61.21	9.64	4.646	57.99	4.697	8.89	54.52	1.294	31.47	32.59	34.2	1.115	2.729	18.63	4.799	1.484	887	0
6/2/2014 19:45	67149	15	153	2.928	65.41	10.64	4.84	61.11	5.871	9.4	56.27	2.275	31.36	32.23	33.69	0.87	2.335	19.96	5.698	1.509	887	0
6/2/2014 20:00	67150	15	153	3.397	66.53	9.77	5.34	61.65	5.969	9.62	56.84	2.18	31.31	32.1	33.44	0.785	2.131	20.17	5.809	1.323	887	0
6/2/2014 20:15	67151	15	153	3.142	61.09	10.71	5.136	58.31	6.326	9.53	58.2	2.145	30.82	31.58	32.87	0.759	2.05	20.27	5.477	1.271	888	0
6/2/2014 20:30	67152	15	153	3.866	73.73	10.18	5.882	70.83	7.205	9.9	69.57	5.506	31.13	31.79	32.6	0.667	1.47	20.4	5.822	1.427	888	0
6/2/2014 20:45	67153	15	153	4.21	87.7	13.05	6.325	85	9.1	10.19	83.6	6.183	31.21	31.72	32.07	0.515	0.869	23.2	7.749	1.522	888	0
6/2/2014 21:00	67154	15	153	4.349	107.1	11.97	6.475	104.5	7.98	9.83	102.8	6.321	30.55	30.97	31.09	0.424	0.547	25.55	8.62	1.467	888	0
6/2/2014 21:15	67155	15	153	4.446	125.5	12.8	6.812	122.6	8.84	9.88	120.4	5.789	30.23	30.6	30.59	0.371	0.362	34.43	12.76	1.535	888	0
6/2/2014 21:30	67156	15	153	5.894	133.5	12.13	8.59	129.3	8.24	11.64	125.5	5.7	30.07	30.33	30.13	0.262	0.066	40.31	15.13	1.812	888	0
6/2/2014 21:45	67157	15	153	5.948	135	11.81	8.64	130.4	7.356	11.71	126.6	4.935	29.57	29.82	29.62	0.254	0.05	41.24	15.04	1.691	889	0
6/2/2014 22:00	67158	15	153	6.092	134	11.32	8.85	129.1	7.653	11.95	125.9	5.398	29.09	29.33	29.14	0.239	0.043	41.7	14.78	1.75	889	0
6/2/2014 22:15	67159	15	153	5.616	132.6	11.63	8.15	128.7	8.22	11.33	125.9	5.038	28.5	28.74	28.57	0.247	0.068	42.32	14.48	1.557	889	0
6/2/2014 22:30	67160	15	153	6.137	133.4	12.11	8.84	129	7.714	12.04	125.3	5.179	28.15	28.38	28.19	0.227	0.039	42.48	14.22	1.792	889	0
6/2/2014 22:45	67161	15	153	4.923	130.7	12.29	7.108	126.1	8.25	10.24	122.1	5.296	27.61	27.88	27.72	0.267	0.109	43.52	14.11	1.522	889	0
6/2/2014 23:00	67162	15	153	5.723	130.8	12.33	8.2	127.1	8.57	11.01	123.7	5.818	27.17	27.39	27.2	0.223	0.033	44.98	14.22	1.792	889	0
6/2/2014 23:15	67163	15	153	6.065	135.5	11.71	8.69	129.2	8.21	11.29	124.5	5.946	26.8	27	26.76	0.199	-0.036	45.42	14.04	1.906	889	0
6/2/2014 23:30	67164	15	153	5.942	133.7	11.34	8.46	128.6	7.692	11.37	125.2	5.615	26.45	26.66	26.45	0.202	-0.005	46.15	13.97	1.754	889	0
6/2/2014 23:45	67165	15	153	6.254	136.6	11.96	9.13	131.3	6.916	12.12	126.9	4.62	26.19	26.38	26.17	0.196	-0.012	47.03	14.02	1.716	889	0
6/3/2014 0:00	67166	15	154	5.381	132.8	11.65	7.952	128.1	7.509	10.9	124.8	5.625	25.73	25.96	25.8	0.227	0.067	48.29	14.01	1.656	889	0
6/3/2014 0:15	67167	15	154	5.428	135.5	11.87	8.04	131.4	7.889	10.85	127.3	5.442	25.47	25.67	25.46	0.2	-0.014	48.79	13.93	1.678	889	0
6/3/2014 0:30	67168	15	154	4.251	141	13.35	6.359	135.8	8.82	8.77	130.2	5.944	25.16	25.39	25.17	0.228	0.008	49.27	13.8	1.562	889	0
6/3/2014 0:45	67169	15	154	3.97	144.7	13.07	5.74	139.8	9.89	7.964	134.1	7.896	24.91	25.15	24.94	0.242	0.034	49.68	13.69	1.311	890	0
6/3/2014 1:00	67170	15	154	3.625	150.5	12.54	5.34	143.5	8.9	7.807	137	6.55	24.62	24.9	24.77	0.276	0.15	50.41	13.65	1.393	890	0
6/3/2014 1:15	67171	15	154	3.214	140.8	11.76	5.008	136.5	7.026	7.225	132.3	4.886	24.31	24.66	24.6	0.347	0.295	51.44	13.68	1.344	890	0
6/3/2014 1:30	67172	15	154	3.524	144.9	12.91	5.403	139.5	8.14	7.637	134.3	5.544	24.14	24.46	24.4	0.314	0.255	51.97	13.69	1.153	890	0
6/3/2014 1:45	67173	15	154	3.707	148	11.98	5.721	142	8.02	8.36	137.5	4.791	24.01	24.3	24.23	0.292	0.219	52.19	13.62	1.58	890	0
6/3/2014 2:00	67174	15	154	3.255	146.5	12.06	5.057	140.6	7.779	7.668	134.1	5.029	23.63	23.96	23.96	0.324	0.329	53.29	13.59	1.324	890	0
6/3/2014 2:15	67175	15	154	3.867	138.7	11.42	5.708	133.5	7.258	8.23	130	4.628	23.5	23.78	23.72	0.275	0.222	53.88	13.64	1.578	889	0
6/3/2014 2:30	67176	15	154	3.792	138.3	11.72	5.594	133.5	8.06	8.51	128.5	4.437	23.29	23.55	23.52	0.26	0.225	54.6	13.66	1.369	889	0
6/3/2014 2:45	67177	15	154	3.79	134.4	12.52	5.621	130.6	7.855	8.48	126.5	4.734	23.11	23.37	23.34	0.257	0.229	55.23	13.66	1.317	889	0
6/3/2014 3:00	67178	15	154	3.897	132.3	11.15	5.698	126.6	7.71	8.57	123.2	4.3	22.99	23.24	23.2	0.243	0.207	55.63	13.66	1.391	889	0
6/3/2014 3:15	67179	15	154	4.203	131.4	11.65	6.142	125.5	6.88	9.13	121.7	4.372	22.87	23.1	23.06	0.234	0.188	56.02	13.65	1.485	889	0
6/3/2014 3:30	67180	15	154	4.131	130.2	12.18	6.052	126.3	7.712	9.25	122.1	4.943	22.74	22.96	22.91	0.219	0.169	56.6	13.69	1.54	889	0
6/3/2014 3:45	67181	15	154	3.983	136.1	12.16	5.82	129.2	8.45	8.76	123.5	4.898	22.62	22.85	22.77	0.235	0.159	57.16	13.73	1.336	889	0
6/3/2014 4:00	67182	15	154	3.225	142.9	12.79	5.021	135.8	7.862	7.534	128.8	4.959	22.33	22.63	22.56	0.296	0.231	58.34	13.78	1.35	890	0
6/3/2014 4:15	67183	15	154	3.168	140.6	11.5	4.591	136	7.491	7.259	129	5.032	22.12	22.41	22.43	0.286	0.301	59.3	13.83	1.323	890	0
6/3/2014 4:30	67184	15	154	2.892	143.8	11.94	4.448	135.7	7.869	7.178	128.3	4.01	21.89	22.2	22.25	0.312	0.358	60.52	13.93	1.265	890	0
6/3/2014 4:45	67185	15	154	2.978	139	12.42	4.595	133.2	7.684	7.299	126.7	4.305	21.69	22	22.08	0.315	0.388	61.57	14	2.697	890	0
6/3/2014 5:00	67186	15	154	3.256	134.4	11.46	4.988	128.8	7.082	7.8	125	3.82	21.59	21.87	21.93	0.287	0.348	62.13	14.05	9.07	890	0
6/3/2014 5:15	67187	15	154	3.627	128.2	10.89	5.43	124.1	7.803	8.27	120.8	4.118	21.64	21.85	21.82	0.205	0.182	62.24	14.13	31.83	890	0
6/3/2014 5:30	67188	15	154	4.133	127.1	11.43	5.967	122.3	7.438	8.65	117.8	4.447	21.76	21.85	21.68	0.088	-0.08	62.03	14.18	68.27	890	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/3/2014 5:45	67189	15	154	3.659	131.5	12.72	5.28	127	8.41	7.857	121.1	5.187	21.93	21.9	21.6	-0.027	-0.333	61.97	14.33	115	890	0
6/3/2014 6:00	67190	15	154	4.121	138.8	13.1	5.893	132.6	9.01	7.498	126.2	6.514	22.25	22.08	21.65	-0.169	-0.605	61.57	14.53	181.5	890	0
6/3/2014 6:15	67191	15	154	4.07	141.5	12.58	5.891	137.4	9.09	7.435	132.2	7.266	22.69	22.37	21.83	-0.323	-0.859	61.3	14.88	248.9	890	0
6/3/2014 6:30	67192	15	154	4.365	144.1	12.28	6.251	138.8	8.01	7.86	134.3	6.336	23.07	22.62	22.02	-0.448	-1.052	61.68	15.33	311	890	0
6/3/2014 6:45	67193	15	154	4.365	144.9	14.53	6.106	139.9	10.58	7.434	136.2	7.208	23.53	22.96	22.29	-0.571	-1.238	61.1	15.62	380.4	890	0
6/3/2014 7:00	67194	15	154	4.043	150.1	14.84	5.473	145.6	11.82	6.656	141.5	9.09	23.9	23.24	22.48	-0.663	-1.421	60.3	15.76	431.7	891	0
6/3/2014 7:15	67195	15	154	4.01	161.6	12.92	5.138	155.6	9.74	6.166	148.2	9.25	24.25	23.6	22.85	-0.653	-1.403	59.44	15.87	446.9	891	0
6/3/2014 7:30	67196	15	154	4.335	170.8	13.15	5.643	164.2	9.63	6.582	158.7	7.65	24.79	23.95	23.15	-0.841	-1.634	58.24	16.05	554.5	891	0
6/3/2014 7:45	67197	15	154	4.024	168.5	16	5.228	161.1	12.85	6.214	156.8	11.78	25.38	24.42	23.6	-0.959	-1.785	57.37	16.37	630.1	891	0
6/3/2014 8:00	67198	15	154	3.619	166.6	19.54	4.757	160.4	15.03	5.643	156.2	11.21	25.83	24.69	23.87	-1.145	-1.965	56.41	16.52	695	891	0
6/3/2014 8:15	67199	15	154	3.531	155.2	19.57	4.567	149.8	13.75	5.455	145.3	12.79	26.21	25.04	24.21	-1.171	-2.001	55.98	16.75	757.4	891	0
6/3/2014 8:30	67200	15	154	3.336	151.1	15.56	4.309	146	13.66	5.132	146.9	11.52	26.77	25.57	24.67	-1.203	-2.105	54.32	16.8	817	891	0
6/3/2014 8:45	67201	15	154	3.257	148.7	21.11	4.142	146.2	15.81	4.838	143.4	13.29	27.24	26.05	25.17	-1.189	-2.064	53.36	16.95	872	891	0
6/3/2014 9:00	67202	15	154	3.733	167.1	15.88	4.575	161.8	13.02	5.436	154.1	11.75	27.78	26.51	25.61	-1.263	-2.165	52.27	17.12	905	891	0
6/3/2014 9:15	67203	15	154	3.41	148.3	17.8	4.434	143.1	15.84	5.212	141.5	11.48	28.55	27.23	26.32	-1.322	-2.227	50.09	17.16	949	891	0
6/3/2014 9:30	67204	15	154	3.488	154.9	25.05	4.367	151.1	21.28	5.078	147	15.24	29.04	27.65	26.86	-1.391	-2.186	48.59	17.13	1015	891	0
6/3/2014 9:45	67205	15	154	3.612	167.2	20.08	4.539	161.7	15.77	5.497	156.2	12.8	29.53	28.15	27.12	-1.384	-2.408	46.93	17.02	1055	891	0
6/3/2014 10:00	67206	15	154	3.356	165.7	20.69	4.322	162.2	17.97	5.029	154.3	15.52	30.4	28.82	27.88	-1.573	-2.514	44.8	17.08	1094	891	0
6/3/2014 10:15	67207	15	154	3.429	161.9	20.32	4.376	154.5	16.78	5.095	149.9	13.68	30.72	29.27	28.25	-1.45	-2.473	43.29	16.83	1125	891	0
6/3/2014 10:30	67208	15	154	3.762	165.1	24.99	4.812	158.1	21.47	5.57	152.7	17.68	31.27	29.74	28.83	-1.531	-2.439	41.49	16.65	1157	890	0
6/3/2014 10:45	67209	15	154	3.572	153.7	23.03	4.777	148	17.27	5.631	145	12.22	32.03	30.44	29.39	-1.592	-2.64	38.67	16.22	1184	890	0
6/3/2014 11:00	67210	15	154	3.564	170.4	21.39	4.513	165.9	18.61	5.31	159	14.84	32.52	30.95	29.98	-1.566	-2.537	37.5	16.17	1204	890	0
6/3/2014 11:15	67211	15	154	3.949	157.5	18.54	5.082	150.7	14.35	5.893	147.5	10.97	32.99	31.34	30.3	-1.644	-2.684	35.23	15.61	1224	890	0
6/3/2014 11:30	67212	15	154	3.778	160.1	17.59	4.901	155.2	14.89	5.878	152.6	13.08	33.41	31.86	30.81	-1.55	-2.597	34.15	15.48	1238	890	0
6/3/2014 11:45	67213	15	154	4.752	152.1	18.21	6.134	146.6	13.54	6.866	142	9.67	33.87	32.04	31.05	-1.821	-2.817	32.08	14.92	1246	889	0
6/3/2014 12:00	67214	15	154	4.405	159.1	19.62	5.777	152.7	16.23	6.826	149.9	13.56	34.52	32.73	31.62	-1.795	-2.904	30.78	14.84	1249	889	0
6/3/2014 12:15	67215	15	154	4.077	149.6	24.37	5.254	145.2	21.53	6.511	140.6	17.65	34.72	33.09	32.06	-1.634	-2.659	29.89	14.55	1246	889	0
6/3/2014 12:30	67216	15	154	4.2	161.6	20.23	5.428	155.4	16.64	6.293	150.2	16.3	35.32	33.56	32.63	-1.758	-2.687	27.27	13.62	1243	889	0
6/3/2014 12:45	67217	15	154	4.143	150	26.62	5.349	144.3	22.66	6.221	141.2	17.32	35.85	34.2	33.05	-1.652	-2.804	26.17	13.46	1233	888	0
6/3/2014 13:00	67218	15	154	4.284	150.5	24.3	5.629	146.5	19.68	6.689	145	17.55	36.45	34.66	33.58	-1.791	-2.866	23.7	12.44	1221	888	0
6/3/2014 13:15	67219	15	154	4.459	160.9	19.2	5.82	155.3	16.02	6.882	151.2	14.64	36.76	35.01	33.83	-1.751	-2.924	22.76	12.09	1205	888	0
6/3/2014 13:30	67220	15	154	4.357	164.5	19.77	5.649	159.1	18.23	6.336	153.7	16.31	36.83	35.21	34.22	-1.616	-2.601	21.04	10.96	1178	888	0
6/3/2014 13:45	67221	15	154	4.233	168.9	20.62	5.55	162.4	18.79	6.464	157.3	17.43	37.14	35.69	34.64	-1.456	-2.508	19.63	10.17	1137	888	0
6/3/2014 14:00	67222	15	154	4.323	172.5	19.64	5.577	167.2	16.17	6.492	164.4	16.49	37.42	36.01	35.01	-1.403	-2.405	18.03	9.1	1089	888	0
6/3/2014 14:15	67223	15	154	4.434	172.3	21.51	5.618	166.6	19.92	6.715	160.4	18.36	37.75	36.33	35.12	-1.428	-2.63	17.61	9.05	1021	887	0
6/3/2014 14:30	67224	15	154	4.123	168.9	22.76	5.411	163.6	20.05	6.489	158.3	16.57	37.67	36.28	35.29	-1.393	-2.385	17	8.46	1034	887	0
6/3/2014 14:45	67225	15	154	4.724	162	27.75	6.249	156	24.17	7.288	150.4	20.16	37.96	36.51	35.47	-1.443	-2.485	16.89	8.58	982	887	0
6/3/2014 15:00	67226	15	154	4.887	153.9	23.88	6.577	148.7	21.28	7.498	147.4	19.17	37.77	36.46	35.45	-1.31	-2.312	16.62	8.18	901	887	0
6/3/2014 15:15	67227	15	154	3.979	160.8	18.36	5.306	155.5	16.78	6.477	148	14.38	37.83	36.54	35.59	-1.292	-2.238	16.5	8.15	916	887	0
6/3/2014 15:30	67228	15	154	4.644	148.4	22.27	6.408	144.8	20.73	7.834	141.2	19.42	38.08	36.74	35.61	-1.335	-2.462	17.09	8.85	886	887	0
6/3/2014 15:45	67229	15	154	4.545	163.8	15.32	5.863	160.5	13.89	7.249	160.4	13.45	37.99	36.95	35.83	-1.035	-2.159	15.75	7.584	800	887	0
6/3/2014 16:00	67230	15	154	4.583	166.1	17.02	6.097	161.5	14.87	6.864	154.8	14.11	37.69	36.7	35.86	-0.988	-1.826	16.22	7.783	706.1	886	0
6/3/2014 16:15	67231	15	154	4.972	155.4	14.6	6.871	149.9	11.47	8.21	145.6	10.19	37.77	36.73	35.8	-1.035	-1.964	15.82	7.482	714.7	886	0
6/3/2014 16:30	67232	15	154	5.115	152.6	18.87	7.005	147.8	15.25	8.33	144.9	10.55	37.57	36.67	35.72	-0.903	-1.847	16.5	7.942	625.6	886	0
6/3/2014 16:45	67233	15	154	5.58	153.8	14.58	7.859	147.9	11.45	9.29	143.3	10.03	37.27	36.57	35.7	-0.702	-1.568	17.42	8.5	544.5	886	0
6/3/2014 17:00	67234	15	154	5.699	153	16.26	7.841	147.1	12.66	9.35	141	12.16	36.78	36.2	35.42	-0.585	-1.36	17.95	8.55	475.1	886	0
6/3/2014 17:15	67235	15	154	5.563	153.5	13.36	8.02	148.2	9.84	9.61	145.3	7.536	36.58	36.05	35.28	-0.525	-1.294	18.15	8.56	413.7	886	0
6/3/2014 17:30	67236	15	154	5.955	145.6	14.01	8.45	141.4	10.64	10.58	137.2	8.24	36.19	35.82	35.09	-0.363	-1.102	18.99	8.91	337.4	886	0
6/3/2014 17:45	67237	15	154	6.333	144.2	13.94	9.12	139.7	10.23	11.41	134.2	8.06	35.66	35.41	34.71	-0.255	-0.952	20.7	9.75	279.9	886	0
6/3/2014 18:00	67238	15	154	6.095	140.9	11.65	8.47	136.5	9.15	11.16	133.6	7.114	35.07	34.97	34.38	-0.093	-0.682	21.23	9.65	192.6	886	0
6/3/2014 18:15	67239	15	154	6.646	139.3	12.07	9.55	134.2	8.19	12.39	129.9	5.254	34.31	34.32	33.8	0.004	-0.514	23.15	10.32	129.9	886	0
6/3/2014 18:30	67240	15	154	6.474	144	11.91	9.43	137.2	7.613	12.26	133.4	5.333	33.62	33.71	33.28	0.087	-0.343	25.36	11.11	83.1	886	0
6/3/2014 18:45	67241	15	154	6.844	144.1	11.69	9.97	139.2	7.409	12.88	135	5.093	32.85	33	32.63	0.154	-0.217	27.86	11.87	34.72	886	0
6/3/2014 19:00	67242	15	154	6.351	142.7	12.44	9.41	137.3	8.16	12.42	134.2	5.861	32.03	32.24	31.93	0.208	-0.095	30.8	12.69	8.65	886	0
6/3/2014 19:15	67243	15	154	5.829	141.5	12.17	8.56	136.9	8.28	11.67	134.3	5.419	31.18	31.41	31.14	0.226	-0.045	34.05	13.5	2.821	886	0
6/3/2014 19:30	67244	15	154	5.807	147	12.31	8.72	141.2	8.64	11.27	137.3	6.507	30.56	30.79	30.53	0.233	-0.028	35.65	13.66	1.764	886	0
6/3/2014 19:45	67245	15	154	6.843	146	11.41	9.88	141.4	7.643	12.83	137.5	5.316	30.06	30.25	29.97	0.194	-0.085	37.08	13.83	1.828	886	0
6/3/2014 20:00	67246	15	154	6.164	144.8	12.18	9.1	139.6	8.06	12.24	136.8	5.05	29.5	29.71	29.45	0.212	-0.049	38.79	14.02	1.759	887	0
6/3/2014 20:15	67247	15	154	6.709	144.7	12.45	9.84	140.1	8.06	13	136.3	5.596	29.02	29.22	28.95	0.201	-0.07	40.65	14.32	1.88	887	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/3/2014 20:30	67248	15	154	6.496	145.2	12.85	9.53	140.5	8.12	12.59	137.3	5.294	28.53	28.73	28.48	0.204	-0.053	41.84	14.33	1.945	887	0
6/3/2014 20:45	67249	15	154	6.45	144.5	12.07	9.47	140.1	7.944	12.57	137.4	5.657	28.08	28.27	28.02	0.195	-0.063	42.98	14.34	1.812	887	0
6/3/2014 21:00	67250	15	154	7.013	148.1	12.7	10.08	143.2	7.873	13.23	139.4	5.26	27.7	27.87	27.6	0.171	-0.098	43.38	14.14	1.841	887	0
6/3/2014 21:15	67251	15	154	6.348	147.2	12.52	9.43	142.5	7.879	12.79	139.6	5.468	27.19	27.39	27.15	0.199	-0.036	44.04	13.91	1.879	887	0
6/3/2014 21:30	67252	15	154	7.315	149.8	12.11	10.66	145.2	7.978	13.8	141.5	5.664	26.9	27.07	26.8	0.169	-0.099	43.15	13.34	1.993	887	0
6/3/2014 21:45	67253	15	154	7.121	150.2	11.86	10.15	144.9	8.29	13.5	141.2	5.708	26.43	26.59	26.32	0.165	-0.105	44.82	13.49	2.125	887	0
6/3/2014 22:00	67254	15	154	5.986	147.8	11.86	8.95	143.4	7.562	11.96	140.5	5.694	26.01	26.2	25.95	0.19	-0.067	47.08	13.88	1.733	887	0
6/3/2014 22:15	67255	15	154	6.211	145.7	12.09	8.98	140.8	7.476	11.92	138.4	5.845	25.65	25.83	25.58	0.18	-0.068	48.71	14.06	1.555	887	0
6/3/2014 22:30	67256	15	154	6.448	148	11.8	9.53	143.2	7.282	12.42	140.7	5.588	25.31	25.48	25.23	0.172	-0.082	51.37	14.58	1.84	887	0
6/3/2014 22:45	67257	15	154	6.088	149	11.28	8.85	144.1	7.484	12.07	141.7	5.238	25.03	25.19	24.96	0.166	-0.065	53.42	14.92	1.978	887	0
6/3/2014 23:00	67258	15	154	5.566	152.4	12.28	8.17	146.9	8.13	11.13	143.6	5.931	24.76	24.94	24.7	0.178	-0.06	55.14	15.17	1.717	887	0
6/3/2014 23:15	67259	15	154	5.761	156.4	11.38	8.37	150.8	7.911	10.8	147.7	6.61	24.58	24.76	24.51	0.178	-0.079	56.4	15.36	1.672	887	0
6/3/2014 23:30	67260	15	154	5.321	158.2	12.07	7.741	152.4	8.11	10.18	148.4	6.109	24.31	24.5	24.26	0.197	-0.043	57.91	15.51	1.703	887	0
6/3/2014 23:45	67261	15	154	5.393	154.1	11.45	7.671	148.9	7.35	10.24	145.6	5.649	24.12	24.3	24.08	0.181	-0.04	59.1	15.66	1.703	887	0
6/4/2014 0:00	67262	15	155	5.029	153.2	11.87	7.371	148.2	7.48	10.1	144.5	5.371	23.89	24.09	23.88	0.195	-0.009	60.17	15.72	1.756	887	0
6/4/2014 0:15	67263	15	155	4.952	146.2	11.62	7.313	142.1	7.885	10.12	139.6	5.569	23.7	23.9	23.7	0.2	0.004	61.12	15.78	1.751	887	0
6/4/2014 0:30	67264	15	155	4.588	145.9	12.19	6.943	141.2	7.717	9.65	137.3	5.757	23.44	23.67	23.5	0.226	0.054	62.06	15.78	1.554	887	0
6/4/2014 0:45	67265	15	155	5.7	143.2	11.7	8.48	138.9	7.198	11.64	135	4.455	23.38	23.57	23.41	0.184	0.024	62.36	15.8	1.681	886	0
6/4/2014 1:00	67266	15	155	5.112	145.1	12.13	7.503	140	7.736	10.86	136.7	5.305	23.17	23.35	23.19	0.18	0.025	63.01	15.76	1.748	886	0
6/4/2014 1:15	67267	15	155	4.387	146.3	12.94	6.597	141.4	8.16	9.71	136.3	5.999	22.99	23.2	23.03	0.204	0.037	63.49	15.71	1.536	886	0
6/4/2014 1:30	67268	15	155	4.351	149.7	12.94	6.544	144.3	8.63	9.23	138.7	5.097	22.81	23.03	22.88	0.22	0.065	63.93	15.65	1.412	886	0
6/4/2014 1:45	67269	15	155	3.94	155.8	11.51	5.815	149.9	8.18	8.49	143.7	5.511	22.62	22.86	22.72	0.239	0.101	64.36	15.57	1.524	886	0
6/4/2014 2:00	67270	15	155	3.771	157.3	11.5	5.474	150.8	7.135	7.912	144.8	5.384	22.4	22.65	22.54	0.257	0.147	64.95	15.5	1.284	886	0
6/4/2014 2:15	67271	15	155	3.342	155.6	11.67	4.947	150.3	7.436	7.434	145.3	5.061	22.16	22.45	22.39	0.287	0.229	65.61	15.43	1.339	886	0
6/4/2014 2:30	67272	15	155	3.144	150.2	12.21	4.754	145.7	7.831	7.235	142.5	5.188	22.01	22.29	22.27	0.287	0.261	65.98	15.38	1.185	886	0
6/4/2014 2:45	67273	15	155	2.378	169.1	19.41	3.584	159	14.62	5.666	148.4	9.13	21.71	22.06	22.08	0.355	0.375	66.83	15.29	1.145	887	0
6/4/2014 3:00	67274	15	155	1.485	200.4	17.09	2.544	193	10.41	4.159	171.9	6.786	21.05	21.74	21.89	0.685	0.843	69.14	15.19	0.866	887	0
6/4/2014 3:15	67275	15	155	0.678	237.5	55.72	1.27	200.3	26.74	3.079	169	9.59	20.82	21.54	21.83	0.724	1.005	70.3	15.23	0.841	887	0
6/4/2014 3:30	67276	15	155	0.814	128.5	35.34	1.528	153.1	20.77	3.177	152.1	9.37	19.9	21.53	21.73	1.63	1.834	72.72	14.87	0.78	887	0
6/4/2014 3:45	67277	15	155	1.297	87.3	11.31	2.345	119.9	6.066	4.154	135.9	6.357	19.15	21.2	21.69	2.047	2.546	76.34	14.9	0.813	887	0
6/4/2014 4:00	67278	15	155	1.424	99	9.45	3.037	112.5	7.172	5.33	125.7	4.264	19.41	20.89	21.6	1.48	2.191	76.38	15.17	0.918	887	0
6/4/2014 4:15	67279	15	155	1.119	107.4	20.22	2.454	112.7	10.27	5.861	123.4	2.961	19.83	20.59	21.51	0.755	1.68	74.96	15.28	1.05	887	0
6/4/2014 4:30	67280	15	155	1.841	121.3	15.9	3.481	118.1	9.52	7.165	124.8	2.643	20.23	20.7	21.59	0.477	1.367	73.31	15.31	1.123	887	0
6/4/2014 4:45	67281	15	155	2.802	119.2	11.29	4.611	116.5	6.351	7.861	122.4	2.397	20.33	20.75	21.55	0.417	1.221	72.52	15.25	1.991	886	0
6/4/2014 5:00	67282	15	155	3.089	117.4	11.88	4.999	115.4	7.305	8.51	122.2	2.815	20.43	20.77	21.61	0.343	1.178	72	15.23	6.013	886	0
6/4/2014 5:15	67283	15	155	2.71	120.9	11.51	4.53	117.2	6.693	8.09	124.9	2.308	20.46	20.74	21.67	0.281	1.217	71.9	15.23	30.48	887	0
6/4/2014 5:30	67284	15	155	2.78	123	11.19	4.399	119.3	6.716	7.946	126.2	1.997	20.76	20.92	21.84	0.154	1.082	71.22	15.38	70.92	887	0
6/4/2014 5:45	67285	15	155	3.346	125.1	11.82	5.271	121	6.683	8.57	127.9	3.588	21.46	21.47	22.33	0.012	0.872	68.55	15.45	123.9	886	0
6/4/2014 6:00	67286	15	155	3.15	130	11.64	4.645	125.5	7.131	7.473	130	3.941	22.28	22.15	22.37	-0.13	0.094	65.58	15.53	182.9	887	0
6/4/2014 6:15	67287	15	155	3.158	134.8	12.72	4.607	129.5	7.983	6.765	132.9	4.848	23.45	23.22	23.15	-0.232	-0.298	60.82	15.47	246.8	887	0
6/4/2014 6:30	67288	15	155	3.092	146.3	13.19	4.382	142.3	9.3	5.643	145.2	7.27	24.24	23.88	23.46	-0.358	-0.779	57.87	15.43	312.1	887	0
6/4/2014 6:45	67289	15	155	3.23	155.2	13.28	4.367	151.1	9.57	5.21	151	6.304	25.32	24.88	24.31	-0.442	-1.011	53.71	15.27	378.1	887	0
6/4/2014 7:00	67290	15	155	3.597	168.5	13.81	4.817	163.6	9.2	5.558	159.6	5.864	26.33	25.76	25.17	-0.568	-1.161	49.6	14.97	444.1	887	0
6/4/2014 7:15	67291	15	155	3.218	173.8	12.54	4.32	167.7	10.15	4.842	163.1	7.329	27.09	26.42	25.8	-0.677	-1.291	46.76	14.75	510.3	887	0
6/4/2014 7:30	67292	15	155	2.968	172.4	15.43	3.734	166.4	12.44	4.097	163	11.06	27.57	26.85	26.22	-0.719	-1.345	44.96	14.57	574.8	887	0
6/4/2014 7:45	67293	15	155	2.798	185.3	18.14	3.517	179.4	15.36	4.045	176.6	12.13	28.18	27.45	26.76	-0.723	-1.415	42.87	14.39	637.4	887	0
6/4/2014 8:00	67294	15	155	2.317	193.6	20.13	2.857	190	16.42	3.393	185.4	11.89	28.72	27.95	27.14	-0.763	-1.579	41.05	14.2	700	887	0
6/4/2014 8:15	67295	15	155	2.483	198.4	17.74	2.905	196.3	18.59	3.389	191.4	13.48	29.12	28.46	27.69	-0.653	-1.429	39.18	13.84	761.5	887	0
6/4/2014 8:30	67296	15	155	2.319	213.3	18.48	2.778	204	17.78	3.152	195.4	13.56	29.57	28.83	28.19	-0.74	-1.378	38.13	13.82	820	887	0
6/4/2014 8:45	67297	15	155	1.929	207.3	24.7	2.32	204	21.62	2.739	202.9	20.5	30.19	29.52	28.78	-0.677	-1.412	36.43	13.67	875	887	0
6/4/2014 9:00	67298	15	155	1.972	190	28.13	2.432	185.7	28.7	2.925	188.4	20.38	31.15	30.31	29.6	-0.84	-1.557	34.41	13.64	929	887	0
6/4/2014 9:15	67299	15	155	1.831	199.1	38.64	2.254	194.4	29.13	2.619	191.2	18.71	31.53	30.79	30.08	-0.744	-1.457	32.43	13.06	980	887	0
6/4/2014 9:30	67300	15	155	2.036	226	33.03	2.45	222.1	27.08	2.784	218.2	18.71	32.35	31.58	30.76	-0.766	-1.583	30.27	12.71	1025	887	0
6/4/2014 9:45	67301	15	155	1.417	206.8	63.54	1.679	217.2	52.42	1.874	197.2	37.96	32.84	32.39	31.58	-0.454	-1.262	28.05	11.97	1068	887	0
6/4/2014 10:00	67302	15	155	1.382	158.8	63.53	1.613	162.3	49.55	1.818	173.1	28.68	33.27	32.73	32.02	-0.538	-1.252	26.17	11.29	1112	887	0
6/4/2014 10:15	67303	15	155	1.495	229.2	60.11	1.79	225.5	55	2.225	210.9	33.63	34.12	33.42	32.73	-0.705	-1.388	24.63	11.09	1145	887	0
6/4/2014 10:30	67304	15	155	1.885	241.8	42.34	2.245	231.8	35.3	2.54	212.2	24.73	34.75	33.89	33.27	-0.863	-1.485	22.36	10.16	1172	887	0
6/4/2014 10:45	67305	15	155	1.794	191.4	95	2.014	163.6	90.5	2.345	154.4	63.51	35.3	34.53	33.86	-0.775	-1.446	22.3	10.58	1198	886	0
6/4/2014 11:00	67306	15	155	2.043	188.6	54.95	2.395	180.8	62.69	2.769	199.7	52.95	35.86	35.01	34.26	-0.84	-1.6	20.87	10.04	1223	886	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/4/2014 11:15	67307	15	155	1.792	114	73.66	2.146	112.9	69.37	2.256	138.3	51.43	36.43	35.3	34.62	-1.127	-1.812	20.36	10.14	1240	886	0
6/4/2014 11:30	67308	15	155	2.001	304.1	94.3	2.203	245.8	90.2	2.231	226.1	65.04	36.69	35.77	35.13	-0.923	-1.557	18.97	9.3	1252	886	0
6/4/2014 11:45	67309	15	155	2.107	229.4	52.66	2.585	235.2	53.94	2.945	232.9	46.42	37.32	36.52	35.69	-0.808	-1.638	16.75	7.915	1255	886	0
6/4/2014 12:00	67310	15	155	1.605	237.7	63.49	1.828	235.5	55.02	2.2	205.5	52.49	37.34	36.7	36.09	-0.643	-1.249	15.66	6.997	1266	886	0
6/4/2014 12:15	67311	15	155	2.633	263.4	23.31	3.16	264.4	23.24	3.329	262.7	18.88	38.26	37.23	36.57	-1.031	-1.692	13.07	5.083	1268	885	0
6/4/2014 12:30	67312	15	155	1.994	242.6	75.21	2.187	244.1	65.33	2.551	230.3	45.36	38.56	37.67	36.99	-0.891	-1.567	13.03	5.267	1264	885	0
6/4/2014 12:45	67313	15	155	2.516	264.7	26.97	3.193	266.4	21.32	3.552	258.2	20.31	39.09	38.23	37.29	-0.861	-1.801	11.43	3.804	1253	885	0
6/4/2014 13:00	67314	15	155	1.564	282.5	80.7	1.675	272.7	71.11	1.889	240.1	42.17	38.67	38.17	37.32	-0.501	-1.349	11.82	3.962	1246	885	0
6/4/2014 13:15	67315	15	155	2.301	230.3	62.47	2.688	229.9	62.27	3.249	215.1	30.42	39.48	38.52	37.74	-0.962	-1.733	12.2	5.032	1205	885	0
6/4/2014 13:30	67316	15	155	1.507	138.6	92.3	1.732	114.8	85.8	2.054	138.7	59.52	39.18	38.53	37.89	-0.651	-1.294	11.67	4.191	1202	884	0
6/4/2014 13:45	67317	15	155	2.327	146	45.09	2.86	141.2	43.55	2.92	139.5	49.34	40.2	39.2	38.32	-1.004	-1.882	11.23	4.405	1168	884	0
6/4/2014 14:00	67318	15	155	2.062	187.7	83.1	2.354	166.5	73.83	2.413	155.7	51.27	40.07	39.23	38.38	-0.839	-1.688	10.67	3.584	1130	884	0
6/4/2014 14:15	67319	15	155	2.411	230.7	51.29	3.027	226.9	55.52	3.669	221.9	22.82	40.83	39.97	39.05	-0.865	-1.78	9.71	2.777	1105	884	0
6/4/2014 14:30	67320	15	155	2.483	177.3	67.51	3.074	169	62.52	3.599	169.2	44.29	40.94	39.95	38.95	-0.992	-1.994	8.87	1.601	1056	884	0
6/4/2014 14:45	67321	15	155	3.608	173.2	34.96	4.63	167.2	26.12	5.367	168.2	18.25	41.23	40.04	39.08	-1.185	-2.144	9.44	2.718	1015	883	0
6/4/2014 15:00	67322	15	155	2.615	161.2	37.25	3.381	158.7	32.37	3.986	150.9	29.03	41.03	40.11	39.28	-0.929	-1.749	9.29	2.339	961	883	0
6/4/2014 15:15	67323	15	155	3.578	185.4	28.11	4.642	182.3	27.32	5.779	179.1	26.55	41.84	40.66	39.53	-1.177	-2.305	8.68	1.977	915	883	0
6/4/2014 15:30	67324	15	155	3.25	159.6	29.81	4.169	156.2	26.14	5.49	154.8	26.12	41.65	40.67	39.66	-0.971	-1.982	8.4	1.38	869	883	0
6/4/2014 15:45	67325	15	155	2.847	149.3	34.93	3.713	158	37.65	4.84	162.9	28.79	41.15	40.25	39.41	-0.901	-1.741	8.2	0.682	801	883	0
6/4/2014 16:00	67326	15	155	3.52	148.8	28.55	4.576	142.1	26.28	5.426	134.7	24.54	41.34	40.44	39.57	-0.9	-1.77	8.2	0.812	748.3	883	0
6/4/2014 16:15	67327	15	155	3.456	145.2	18.26	4.614	139.6	13.34	5.637	139.3	11.64	41.08	40.29	39.47	-0.795	-1.617	7.911	0.129	604.6	883	0
6/4/2014 16:30	67328	15	155	4.654	181	21.99	6.134	176.6	19.31	7.218	174.6	18.12	41.03	40.24	39.4	-0.789	-1.629	8.08	0.376	612.5	882	0
6/4/2014 16:45	67329	15	155	3.996	162.5	23.56	5.52	158.6	20.33	6.444	157.4	16.67	40.86	40.13	39.45	-0.729	-1.417	8.48	0.934	543.6	882	0
6/4/2014 17:00	67330	15	155	4.167	161	19.08	5.789	155.6	16.28	6.912	152	15.19	40.7	40.06	39.32	-0.644	-1.378	8.92	1.527	481.6	882	0
6/4/2014 17:15	67331	15	155	4.95	161.7	14.28	6.851	156.7	10.39	7.89	155.3	7.724	40.35	39.79	39.1	-0.558	-1.254	9.4	1.997	436.8	882	0
6/4/2014 17:30	67332	15	155	5.344	158.9	16.07	7.695	153.6	13.16	9.44	150	10.47	40.07	39.59	38.84	-0.485	-1.238	10.97	3.942	395.9	882	0
6/4/2014 17:45	67333	15	155	6.338	153.1	13.01	9.08	148.3	8.4	11.04	144.7	5.711	39.29	38.98	38.27	-0.31	-1.017	12.83	5.627	304	882	0
6/4/2014 18:00	67334	15	155	5.838	147.3	13.97	8.3	143.2	10.35	10.47	140.1	7.936	38.77	38.66	38.06	-0.113	-0.713	13.69	6.166	214.1	882	0
6/4/2014 18:15	67335	15	155	6.272	154	12.49	9.07	147.5	8.49	11.87	143.4	5.682	38.16	38.16	37.63	-0.005	-0.536	14.89	6.893	157.1	882	0
6/4/2014 18:30	67336	15	155	6.909	147.8	11.42	10.28	143.2	7.356	13.61	139.3	4.641	37.17	37.27	36.82	0.099	-0.345	16.6	7.717	89.3	883	0
6/4/2014 18:45	67337	15	155	6.626	153.4	11.99	9.69	147.4	8.11	12.54	142.2	5.738	36.41	36.6	36.26	0.198	-0.148	17.49	7.866	42.72	883	0
6/4/2014 19:00	67338	15	155	6.68	153	11.61	9.69	146.1	7.568	12.92	141.7	5.012	35.54	35.79	35.5	0.254	-0.032	18.63	8.09	12.69	883	0
6/4/2014 19:15	67339	15	155	6.508	150.9	12.04	9.62	146.6	8.03	12.92	143.1	5.343	34.82	35.1	34.87	0.285	0.053	19.36	8.08	3.234	883	0
6/4/2014 19:30	67340	15	155	6.3	150.1	12.25	9.26	145.9	7.125	12.34	142.3	5.08	34.14	34.44	34.24	0.299	0.1	20.06	8.05	1.938	883	0
6/4/2014 19:45	67341	15	155	5.605	150.3	11.57	8.27	145.2	8.05	11.29	142	5.987	33.48	33.82	33.65	0.336	0.173	21.27	8.37	1.718	883	0
6/4/2014 20:00	67342	15	155	5.793	146.7	12.19	8.68	142.5	7.506	11.92	138.8	5.044	32.97	33.29	33.11	0.322	0.149	22.65	8.88	1.705	884	0
6/4/2014 20:15	67343	15	155	5.879	150.6	11.7	8.66	145.1	7.427	11.55	141.4	5.255	32.5	32.83	32.64	0.323	0.136	23.52	9.05	1.838	884	0
6/4/2014 20:30	67344	15	155	5.084	152.3	12.59	7.673	147.4	8.27	10.78	144.8	5.582	31.91	32.27	32.15	0.359	0.235	24.18	8.96	1.653	884	0
6/4/2014 20:45	67345	15	155	5.386	149.9	12.29	8.11	145	7.798	11.07	142.2	5.195	31.51	31.86	31.73	0.353	0.223	24.5	8.82	1.75	884	0
6/4/2014 21:00	67346	15	155	4.509	144.5	12.2	7.012	140.5	7.969	10.27	138.3	5.364	30.86	31.27	31.21	0.406	0.353	25.17	8.68	1.534	884	0
6/4/2014 21:15	67347	15	155	5.023	145.5	12.05	7.465	139.2	8.43	10.25	136.3	5.531	30.5	30.86	30.73	0.357	0.233	25.32	8.46	1.588	884	0
6/4/2014 21:30	67348	15	155	5.374	143.2	11.8	8.05	138.6	7.649	10.98	135.4	5.111	30.09	30.43	30.3	0.343	0.209	26.43	8.74	1.659	885	0
6/4/2014 21:45	67349	15	155	5.229	142.9	11.89	7.583	138.3	8.28	10.46	135.7	5.436	29.58	29.9	29.76	0.317	0.177	28.17	9.26	1.637	885	0
6/4/2014 22:00	67350	15	155	5.294	148.6	11.89	7.84	144	7.822	10.92	140.6	5.49	29.16	29.46	29.33	0.303	0.166	29.94	9.8	1.698	885	0
6/4/2014 22:15	67351	15	155	5.986	150.3	11.57	8.79	145.9	8.03	11.59	144.2	6.045	28.9	29.19	29.01	0.288	0.113	31	10.1	1.617	885	0
6/4/2014 22:30	67352	15	155	5.655	149.2	11.88	8.37	144.1	7.812	11.3	141.8	5.814	28.61	28.9	28.72	0.285	0.11	31.57	10.12	1.753	885	0
6/4/2014 22:45	67353	15	155	5.179	147.9	12.19	7.675	143.1	8.34	10.5	140.3	6.023	28.11	28.4	28.24	0.292	0.129	32.77	10.24	1.624	885	0
6/4/2014 23:00	67354	15	155	5.567	149.6	11.69	8.47	143.8	8.24	11.64	142.2	5.779	27.76	28.04	27.88	0.282	0.112	34.78	10.83	1.782	885	0
6/4/2014 23:15	67355	15	155	5.451	149.9	12.07	8.16	144.3	8.17	11.56	141.2	5.691	27.42	27.69	27.52	0.268	0.105	36.56	11.28	1.813	885	0
6/4/2014 23:30	67356	15	155	5.149	147.6	11.46	7.617	142.4	8.09	10.53	139.8	6.063	26.97	27.23	27.07	0.262	0.106	38.3	11.58	1.686	885	0
6/4/2014 23:45	67357	15	155	4.823	149.5	12.07	7.231	144.1	7.881	10	141.3	5.992	26.53	26.81	26.65	0.278	0.119	40.64	12.09	1.675	885	0
6/5/2014 0:00	67358	15	156	4.319	149.3	12.55	6.562	143.6	8.55	9.41	140.1	5.823	26.13	26.42	26.29	0.294	0.156	42.61	12.45	1.599	885	0
6/5/2014 0:15	67359	15	156	5.048	146.6	12.02	7.437	142	7.723	10.17	138.9	4.933	25.83	26.11	25.98	0.275	0.149	44.08	12.7	1.667	885	0
6/5/2014 0:30	67360	15	156	4.452	148.8	11.28	6.647	142.3	7.397	9.39	138.6	4.801	25.48	25.77	25.64	0.289	0.157	45.49	12.87	1.58	885	0
6/5/2014 0:45	67361	15	156	4.147	148.5	12.26	6.251	142.6	7.356	9	139.5	4.793	25.13	25.44	25.36	0.316	0.228	46.95	13.02	1.538	885	0
6/5/2014 1:00	67362	15	156	3.787	142.3	11.85	5.829	136.4	7.925	8.66	133.7	4.884	24.68	25.01	25.01	0.337	0.333	48.63	13.15	1.29	885	0
6/5/2014 1:15	67363	15	156	3.68	139.4	11.45	5.6	134.3	6.944	8.43	131.4	4.823	24.35	24.69	24.72	0.341	0.367	50.18	13.33	1.418	885	0
6/5/2014 1:30	67364	15	156	3.813	141.4	11.14	5.809	134.3	6.936	8.87	131.7	3.708	23.99	24.34	24.45	0.351	0.457	51.81	13.49	1.447	885	0
6/5/2014 1:45	67365	15	156	3.783	142.9	11.6	5.969	137	6.48	9.17	133.1	3.345	23.65	24.01	24.17	0.361	0.519	53.19	13.58	1.612	885	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/5/2014 2:00	67366	15	156	4.281	137.4	10.23	6.255	132.9	6.757	9.66	130.2	3.552	23.47	23.78	23.95	0.31	0.477	54.1	13.68	1.483	884	0
6/5/2014 2:15	67367	15	156	4.073	135	10.71	6.204	129.8	6.952	9.85	128.4	3.362	23.22	23.53	23.72	0.31	0.498	54.78	13.64	1.606	884	0
6/5/2014 2:30	67368	15	156	3.888	133.8	12.35	5.832	128.4	7.832	9.22	127.2	3.977	23.04	23.34	23.45	0.294	0.405	55.28	13.61	1.745	885	0
6/5/2014 2:45	67369	15	156	3.318	133.9	12.35	5.233	128.7	7.671	8.61	126.6	4.246	22.72	23.05	23.19	0.328	0.463	56	13.51	1.216	885	0
6/5/2014 3:00	67370	15	156	3.41	137.6	12.06	5.253	132.7	7.377	8.45	129.6	4.383	22.54	22.89	23.02	0.348	0.476	56.53	13.49	1.577	885	0
6/5/2014 3:15	67371	15	156	3.561	133.5	11.7	5.556	129.3	7.519	9.02	127.9	3.888	22.36	22.72	22.95	0.356	0.59	57.07	13.47	1.475	884	0
6/5/2014 3:30	67372	15	156	3.886	130.3	10.45	5.849	124.9	6.596	9.38	124.6	3.303	22.28	22.59	22.88	0.314	0.61	57.48	13.49	1.482	884	0
6/5/2014 3:45	67373	15	156	3.33	129.9	11.32	5.224	125.6	6.829	8.51	125.4	3.203	22.01	22.37	22.69	0.361	0.683	58.5	13.51	1.375	884	0
6/5/2014 4:00	67374	15	156	3.076	128.6	11.84	4.9	123.6	7.059	8.22	124.4	3.265	21.78	22.19	22.58	0.412	0.807	59.6	13.59	1.377	884	0
6/5/2014 4:15	67375	15	156	2.497	125.1	12.6	4.127	119.6	7.554	7.243	121	3.533	21.6	22.02	22.41	0.421	0.812	60.51	13.65	1.115	885	0
6/5/2014 4:30	67376	15	156	1.712	142.6	14.1	3.043	130.5	9.62	6.441	125	3.642	21.18	21.69	22.25	0.512	1.064	62.01	13.63	1.162	885	0
6/5/2014 4:45	67377	15	156	1.934	138.8	13.72	3.365	130	8.16	6.925	128.1	3.232	20.96	21.51	22.32	0.549	1.366	63.5	13.79	2.081	885	0
6/5/2014 5:00	67378	15	156	1.985	133	12.96	3.587	125.5	7.876	7.171	125.8	2.867	20.96	21.47	22.36	0.509	1.4	63.54	13.8	8.16	885	0
6/5/2014 5:15	67379	15	156	1.823	139.3	14.62	3.219	128.4	9.31	6.756	127.1	2.88	20.97	21.36	22.19	0.396	1.219	64.02	13.92	31.11	885	0
6/5/2014 5:30	67380	15	156	1.056	148.3	20.78	2.102	133.5	12.29	5.48	123.8	3.255	21.02	21.29	21.73	0.273	0.714	64.33	14.05	74.75	885	0
6/5/2014 5:45	67381	15	156	1.418	184	21.22	2.001	163.2	17.94	4.663	130.2	6.475	21.64	21.67	21.71	0.03	0.072	62.94	14.29	127.4	885	0
6/5/2014 6:00	67382	15	156	1.877	160.7	14.77	2.646	150.3	10.34	4.25	138.5	5.833	22.48	22.36	22.11	-0.122	-0.371	60.28	14.41	186.7	885	0
6/5/2014 6:15	67383	15	156	2.383	157.1	12.4	3.284	150.6	8.32	4.065	145.1	6.527	23.36	23.08	22.62	-0.286	-0.74	56.87	14.34	251	885	0
6/5/2014 6:30	67384	15	156	2.16	160	14.72	2.812	152.7	10.1	3.198	148.1	7.74	24.18	23.79	23.26	-0.389	-0.921	54.1	14.33	316.1	885	0
6/5/2014 6:45	67385	15	156	1.947	155.6	19.23	2.499	150.7	15.58	2.879	149.2	9.22	25.14	24.72	24.08	-0.428	-1.062	50.63	14.2	384.5	885	0
6/5/2014 7:00	67386	15	156	2.047	165	16.71	2.529	157.5	11.21	2.735	157.1	10.44	25.78	25.26	24.7	-0.518	-1.078	47.63	13.84	450.9	885	0
6/5/2014 7:15	67387	15	156	1.379	199.3	23.1	1.624	187.5	18.82	1.932	177.4	17.47	26.21	25.85	25.29	-0.358	-0.918	45.39	13.49	515.7	885	0
6/5/2014 7:30	67388	15	156	1.074	230.2	29.13	1.267	219.1	27.71	1.591	212.5	20.88	26.7	26.34	25.74	-0.355	-0.956	43.11	13.14	579.3	885	0
6/5/2014 7:45	67389	15	156	1.106	279.2	57.09	1.209	267.8	51.27	1.608	255.1	36.64	27.05	26.85	26.32	-0.197	-0.732	41.85	13.01	641.7	886	0
6/5/2014 8:00	67390	15	156	1.041	249.7	46.26	1.179	244.8	27.26	1.231	247.3	24.05	27.48	27.18	26.71	-0.307	-0.775	40.68	12.96	704.7	886	0
6/5/2014 8:15	67391	15	156	1.124	237.7	53.47	1.152	216.5	38.25	1.258	208.9	31.79	28.06	27.66	27.17	-0.405	-0.889	39.15	12.89	766.9	886	0
6/5/2014 8:30	67392	15	156	1.076	285.6	65.83	1.06	268.5	64.46	1.377	255.7	30.1	28.69	28.53	27.99	-0.167	-0.701	36.95	12.56	827	886	0
6/5/2014 8:45	67393	15	156	1.074	252.3	76.86	1.21	293.6	60.03	1.251	311.2	51.9	29.47	29.21	28.69	-0.261	-0.787	35.3	12.56	884	886	0
6/5/2014 9:00	67394	15	156	1.23	246.3	35.69	1.46	245.2	27.07	1.777	236.5	26.54	30.3	29.78	29.18	-0.521	-1.121	33.66	12.55	936	885	0
6/5/2014 9:15	67395	15	156	1.601	300.2	49.12	1.732	303.5	43.13	1.884	303.2	32.7	31.36	30.82	30.28	-0.54	-1.078	29.47	11.42	987	885	0
6/5/2014 9:30	67396	15	156	1.985	329.7	40.83	2.444	332.7	31.35	3.008	330	16.78	32.31	31.64	30.91	-0.669	-1.403	25.69	10.2	1033	885	0
6/5/2014 9:45	67397	15	156	1.859	346.6	34.61	2.248	350.9	27.32	2.529	344	26.33	32.6	31.9	31.09	-0.701	-1.519	25.77	10.5	1076	885	0
6/5/2014 10:00	67398	15	156	2.134	355	44.44	2.595	357	38.12	2.955	351.2	30	33.29	32.29	31.46	-0.996	-1.832	24.02	10.01	1114	885	0
6/5/2014 10:15	67399	15	156	2.271	7.151	36.3	2.969	2.035	23.46	3.581	358.7	21.37	34.01	33.01	32.11	-0.994	-1.902	22.02	9.3	1150	885	0
6/5/2014 10:30	67400	15	156	2.708	7.293	26.77	3.579	8.31	20.45	3.964	2.926	18.52	34.48	33.24	32.48	-1.234	-2	20.9	8.93	1179	885	0
6/5/2014 10:45	67401	15	156	2.507	352.7	39.83	3.287	353.1	35.62	3.842	350.3	29.2	35.36	34.11	33.23	-1.244	-2.127	20.19	9.09	1203	885	0
6/5/2014 11:00	67402	15	156	2.348	2.19	31.97	3.154	3.248	26.35	3.771	356.8	20.01	36.05	34.85	33.83	-1.2	-2.218	16.91	6.924	1229	885	0
6/5/2014 11:15	67403	15	156	2.452	11.77	41.52	3.246	13.79	30.38	3.997	15.89	28.79	36.28	35.05	34.06	-1.235	-2.224	16.72	7.109	1248	885	0
6/5/2014 11:30	67404	15	156	2.685	29.87	27.03	3.549	24.97	22.15	4.334	19.9	20.56	37.11	35.75	34.82	-1.354	-2.282	16.11	7.221	1262	885	0
6/5/2014 11:45	67405	15	156	2.805	18.31	42.55	3.774	12.91	34.33	4.351	15.77	26.69	38	36.67	35.69	-1.332	-2.315	14.91	6.802	1269	885	0
6/5/2014 12:00	67406	15	156	3.022	19.96	35.12	3.988	16.64	28.73	4.773	8.66	22.38	38.12	36.79	35.86	-1.329	-2.257	14.05	6.032	1269	885	0
6/5/2014 12:15	67407	15	156	2.91	339.1	30.96	3.694	338.3	27.43	4.205	337.8	28.51	38.7	37.5	36.51	-1.194	-2.185	11.85	4.001	1267	884	0
6/5/2014 12:30	67408	15	156	2.526	359.4	29.85	3.329	356.4	24.4	4.057	355.3	19.84	39.28	38	36.97	-1.279	-2.314	10.18	2.311	1263	884	0
6/5/2014 12:45	67409	15	156	2.298	350.2	49.64	2.856	349.1	45.55	3.237	357.6	31.02	39.29	38.32	37.35	-0.973	-1.947	10.19	2.348	1256	884	0
6/5/2014 13:00	67410	15	156	2.362	19.45	54.77	2.733	13.4	37.19	3.402	5.282	18.49	39.52	38.51	37.79	-1.011	-1.728	9.67	1.764	1243	884	0
6/5/2014 13:15	67411	15	156	2.318	344.8	45.09	2.695	341.1	43.84	3.2	343.5	35.32	39.86	38.85	38.04	-1.014	-1.818	8.72	0.586	1223	884	0
6/5/2014 13:30	67412	15	156	2.46	46.41	56.16	3.214	47.62	56.74	3.721	45.57	51.24	40.38	39.26	38.36	-1.121	-2.021	7.598	-0.934	1200	883	0
6/5/2014 13:45	67413	15	156	2.375	328.5	48.59	2.75	327.2	43.59	2.987	323.3	29.55	40.18	39.43	38.63	-0.758	-1.553	7.487	-1.279	1175	883	0
6/5/2014 14:00	67414	15	156	3.227	324.8	39.57	3.66	325.6	30.76	3.761	316.7	26.65	40.81	39.82	39	-0.989	-1.803	6.793	-2.162	1146	883	0
6/5/2014 14:15	67415	15	156	2.279	297.3	40.08	2.268	298.6	40.4	2.429	304	30.67	40.52	39.91	39.21	-0.605	-1.308	6.659	-2.635	1129	883	0
6/5/2014 14:30	67416	15	156	1.474	289.7	61.71	1.884	292	55.81	1.955	301.5	41.43	40.53	39.98	39.32	-0.543	-1.208	7.02	-1.906	1138	883	0
6/5/2014 14:45	67417	15	156	2.453	102.3	31.46	3.072	99.6	28.01	3.732	96.3	32.85	40.97	39.96	39.11	-1.005	-1.86	9.01	1.667	1121	883	0
6/5/2014 15:00	67418	15	156	3.552	111.6	23.71	4.595	105.9	17.23	5.371	100.8	15.14	41.18	39.76	38.83	-1.423	-2.353	10.47	4.154	1118	882	0
6/5/2014 15:15	67419	15	156	2.836	90.5	26.97	3.496	86.1	22.92	4.079	81.7	17.47	40.7	39.46	38.69	-1.242	-2.01	10.14	3.34	1057	882	0
6/5/2014 15:30	67420	15	156	3.45	62.84	18.12	4.52	59.02	16.09	5.164	55.42	15.77	40.84	39.65	38.88	-1.19	-1.961	9.73	2.852	964	882	0
6/5/2014 15:45	67421	15	156	2.797	56.85	26.62	3.566	52.3	20.21	3.926	42.91	16.23	40.84	39.82	38.89	-1.018	-1.948	9.36	2.312	939	882	0
6/5/2014 16:00	67422	15	156	2.443	64.47	47.64	3.084	60.76	38.38	3.764	60.7	31.79	40.76	39.83	39.1	-0.929	-1.653	9.67	2.701	904	882	0
6/5/2014 16:15	67423	15	156	2.822	151.1	37.62	3.573	142.5	39.43	4.168	143.9	23.51	40.94	39.89	39.01	-1.051	-1.924	9.04	1.893	837	882	0
6/5/2014 16:30	67424	15	156	3.257	121.7	26.72	4.276	118.1	21.35	4.893	117.2	14.9	41	40.04	39.2	-0.965	-1.805	8.93	1.766	696.3	882	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/5/2014 16:45	67425	15	156	2.843	134.6	29.69	3.63	129.8	22.69	4.313	124.7	15.8	40.67	39.85	39	-0.812	-1.662	9.5	2.389	682.2	882	0
6/5/2014 17:00	67426	15	156	3.088	130.6	36.44	4.004	128.2	33.73	4.419	117.5	27.23	40.57	39.8	39.19	-0.768	-1.38	10.08	3.152	578.2	881	0
6/5/2014 17:15	67427	15	156	2.875	102.6	19.14	3.786	98.2	15.2	4.18	96	9.26	40.33	39.6	38.93	-0.728	-1.405	10.34	3.337	490.8	881	0
6/5/2014 17:30	67428	15	156	3.163	134.8	22.99	4.224	130.8	21.58	5.051	127.2	21.72	40.44	39.82	39.05	-0.615	-1.384	9.94	2.846	400	881	0
6/5/2014 17:45	67429	15	156	3.252	100.1	16.03	4.249	95.8	12.83	4.968	90.9	8.89	39.93	39.58	38.92	-0.35	-1.014	10.2	2.842	292.7	881	0
6/5/2014 18:00	67430	15	156	3.273	139	24.22	4.697	133.9	22.73	5.837	127.8	25.01	39.54	39.42	38.85	-0.125	-0.69	9.72	1.834	152.6	881	0
6/5/2014 18:15	67431	15	156	4.98	158.6	12.16	6.955	154.8	9.35	8.95	151.8	6.334	38.92	38.98	38.51	0.059	-0.412	10.4	2.328	76.86	882	0
6/5/2014 18:30	67432	15	156	6.074	154.8	11.38	8.88	150.2	8.07	11.51	148.4	5.444	37.83	37.91	37.45	0.077	-0.38	13.94	5.58	74.48	882	0
6/5/2014 18:45	67433	15	156	7.337	151.3	11.99	10.32	147	8.42	13.39	142.7	5.803	36.51	36.61	36.18	0.099	-0.325	17	7.528	37.93	882	0
6/5/2014 19:00	67434	15	156	7.522	151.3	12.32	10.83	146.5	8.4	14.12	142.7	5.353	35.51	35.66	35.3	0.15	-0.215	18.38	7.875	13.76	882	0
6/5/2014 19:15	67435	15	156	6.385	149.2	12.09	9.1	144	8.03	12.13	140.5	5.575	34.59	34.78	34.46	0.185	-0.137	19.81	8.23	3.743	882	0
6/5/2014 19:30	67436	15	156	6.303	150	12.71	9.21	144.1	8.96	12.14	140.2	6.234	33.79	34	33.7	0.205	-0.092	22.21	9.26	1.907	883	0
6/5/2014 19:45	67437	15	156	6.614	143.6	11.77	9.59	138.6	7.667	12.32	135	5.953	33.08	33.26	32.96	0.187	-0.121	25.85	10.93	1.895	883	0
6/5/2014 20:00	67438	15	156	6.813	145.2	11.73	9.83	140.5	7.186	12.82	136.8	5.21	32.35	32.53	32.24	0.185	-0.111	28.73	11.91	1.943	883	0
6/5/2014 20:15	67439	15	156	7.295	145.1	12.27	10.7	140.4	8.05	14.5	137	5.409	31.8	31.97	31.68	0.173	-0.111	31.01	12.6	2.057	883	0
6/5/2014 20:30	67440	15	156	7.131	147.9	11.38	10.58	143.6	7.63	14.19	139	5.132	31.3	31.47	31.19	0.169	-0.115	33	13.13	2.058	883	0
6/5/2014 20:45	67441	15	156	6.153	146.5	12.98	9.14	140.8	8.39	12.28	137.5	6.223	30.8	31	30.72	0.203	-0.072	34.47	13.35	1.771	884	0
6/5/2014 21:00	67442	15	156	6.452	143.8	12.16	9.44	138.7	8.24	12.89	135.3	5.47	30.34	30.52	30.25	0.184	-0.088	36.5	13.82	1.94	884	0
6/5/2014 21:15	67443	15	156	6.806	144.7	11.89	9.94	139.9	7.571	13.51	136.3	5.263	29.9	30.07	29.81	0.17	-0.093	38.35	14.21	1.799	884	0
6/5/2014 21:30	67444	15	156	6.279	148.3	11.79	9.18	143.1	8.29	12.7	139.8	5.904	29.51	29.69	29.44	0.184	-0.072	39.32	14.24	1.907	884	0
6/5/2014 21:45	67445	15	156	6.829	146.8	11.95	9.93	142.2	7.178	13	140.5	5.391	29.18	29.36	29.08	0.185	-0.095	40.4	14.37	2.02	884	0
6/5/2014 22:00	67446	15	156	6.624	144.7	11.9	9.41	140.9	7.707	12.12	137.9	6.17	28.83	29.01	28.73	0.178	-0.102	41.63	14.52	1.727	884	0
6/5/2014 22:15	67447	15	156	6.135	141.4	11.89	8.79	137.3	8.17	12.18	135.3	5.527	28.41	28.6	28.36	0.193	-0.041	43.12	14.69	1.88	884	0
6/5/2014 22:30	67448	15	156	5.88	144	11.72	8.74	139.3	8.39	11.92	136.9	6.347	28.02	28.23	28.01	0.211	-0.017	44.89	14.96	1.951	884	0
6/5/2014 22:45	67449	15	156	5.491	134.8	12.44	8.06	130.9	9.03	10.7	130.2	6.438	27.6	27.82	27.61	0.226	0.011	46.4	15.09	1.827	885	0
6/5/2014 23:00	67450	15	156	5.392	130	11.8	7.673	126.3	8.25	10.19	124.1	6.104	27.2	27.43	27.23	0.229	0.021	47.9	15.23	1.434	885	0
6/5/2014 23:15	67451	15	156	5.578	132.7	11.43	8	129.8	7.925	10.53	128.3	5.777	26.86	27.07	26.84	0.219	-0.016	49.77	15.51	1.653	885	0
6/5/2014 23:30	67452	15	156	4.544	135.6	13.57	6.617	130.4	8.8	9.12	127.2	6.106	26.46	26.7	26.5	0.236	0.038	51.41	15.65	1.484	885	0
6/5/2014 23:45	67453	15	156	2.722	153.8	17.92	3.899	149	13.34	5.664	142.1	10.19	26.11	26.41	26.22	0.307	0.113	52.87	15.76	1.08	885	0
6/6/2014 0:00	67454	15	157	3.612	138.6	12.46	5.523	134.8	10	7.373	133.7	6.828	25.74	26.11	25.96	0.373	0.223	54.54	15.91	1.341	885	0
6/6/2014 0:15	67455	15	157	3.819	146.9	12.03	5.952	140.8	7.824	8.01	136.5	5.711	25.44	25.79	25.66	0.345	0.222	56.02	16.05	1.373	885	0
6/6/2014 0:30	67456	15	157	5.209	139.4	10.88	7.727	133.6	7.13	10.89	129.8	4.044	25.15	25.41	25.4	0.258	0.251	57.51	16.19	1.598	885	0
6/6/2014 0:45	67457	15	157	5.898	138.2	10.74	8.56	132.5	6.44	11.92	129.6	3.47	24.91	25.14	25.08	0.229	0.176	58.6	16.26	1.774	884	0
6/6/2014 1:00	67458	15	157	5.775	136.8	10.94	8.39	132.2	6.909	12.33	128.7	3.631	24.58	24.8	24.79	0.222	0.208	59.95	16.31	1.896	884	0
6/6/2014 1:15	67459	15	157	5.561	140.6	11.13	8.15	135.8	7.721	11.87	131.5	4.213	24.36	24.59	24.54	0.227	0.183	61.11	16.4	1.599	884	0
6/6/2014 1:30	67460	15	157	5.469	139.8	11.43	7.957	134.8	7.351	11.69	132.3	4.539	24.21	24.44	24.39	0.227	0.18	61.7	16.42	1.936	884	0
6/6/2014 1:45	67461	15	157	5.044	139.4	11.81	7.548	133.3	7.005	11	130.7	4.584	24.01	24.26	24.21	0.253	0.199	62.39	16.4	1.812	884	0
6/6/2014 2:00	67462	15	157	5.158	139.5	11.64	7.351	135.3	7.304	10.42	132.9	4.64	23.86	24.09	24.01	0.226	0.15	62.93	16.4	1.468	884	0
6/6/2014 2:15	67463	15	157	4.732	136.1	11.01	6.925	131.6	7.584	10.22	129.7	4.607	23.56	23.81	23.78	0.25	0.22	64.17	16.42	1.838	884	0
6/6/2014 2:30	67464	15	157	4.422	132.9	10.92	6.671	128.6	7.09	9.92	126.9	4.342	23.33	23.61	23.61	0.279	0.283	65.14	16.43	1.755	884	0
6/6/2014 2:45	67465	15	157	4.498	134.7	10.58	6.519	130	6.787	9.46	127.6	4.237	23.18	23.44	23.46	0.258	0.272	65.81	16.46	1.72	884	0
6/6/2014 3:00	67466	15	157	4.54	133.7	11.3	6.695	130.2	6.533	10.08	128.3	3.736	23.04	23.31	23.41	0.268	0.371	66.4	16.46	1.544	884	0
6/6/2014 3:15	67467	15	157	4.511	137.2	11.63	6.838	132.7	7.053	10.55	130.1	3.8	22.89	23.17	23.29	0.274	0.399	67	16.46	1.624	884	0
6/6/2014 3:30	67468	15	157	4.692	139.1	11.06	6.982	134.4	7.435	10.71	132	4.085	22.83	23.07	23.14	0.243	0.318	67.34	16.47	1.805	884	0
6/6/2014 3:45	67469	15	157	4.316	142.2	11.83	6.531	137.1	7.747	10.19	135	4.773	22.73	22.99	23.07	0.258	0.337	67.65	16.46	1.67	884	0
6/6/2014 4:00	67470	15	157	4.198	140.3	11.95	6.118	135.1	8.19	9.65	133	5.181	22.7	22.94	22.98	0.241	0.284	67.59	16.41	1.607	884	0
6/6/2014 4:15	67471	15	157	4.229	134.1	11.32	6.228	129.9	7.199	9.76	130.1	4.347	22.56	22.82	22.98	0.262	0.416	68.06	16.39	1.57	884	0
6/6/2014 4:30	67472	15	157	4.489	133.7	10.57	6.815	129.8	6.408	10.37	130.4	3.485	22.43	22.74	23.08	0.306	0.643	68.45	16.36	1.612	884	0
6/6/2014 4:45	67473	15	157	4.395	136.2	10.6	6.587	131.3	6.271	9.99	131.2	3.289	22.29	22.58	22.91	0.287	0.614	68.96	16.34	2.041	885	0
6/6/2014 5:00	67474	15	157	4.113	135.1	11.3	6.248	130.8	6.672	9.99	131.4	2.883	22.06	22.34	22.72	0.274	0.661	69.97	16.35	6.664	885	0
6/6/2014 5:15	67475	15	157	3.963	130.1	10.4	6.095	127.2	6.765	9.93	129.8	2.913	21.96	22.2	22.73	0.235	0.774	70.68	16.41	32.98	885	0
6/6/2014 5:30	67476	15	157	3.607	129.2	12.04	5.465	124.8	7.201	8.95	125.4	3.338	22.09	22.18	22.33	0.098	0.239	70.56	16.5	77.93	885	0
6/6/2014 5:45	67477	15	157	3.9	131.6	10.95	5.647	127.1	6.522	8.38	127.1	3.617	22.63	22.59	22.54	-0.036	-0.09	68.67	16.59	131	885	0
6/6/2014 6:00	67478	15	157	3.914	129.9	11.65	5.475	125.8	7.563	7.623	124.5	4.639	23.28	23.11	22.81	-0.173	-0.47	65.92	16.57	191.6	885	0
6/6/2014 6:15	67479	15	157	3.944	133.7	11.93	5.556	127.9	7.652	7.566	125.1	4.835	24.05	23.75	23.26	-0.302	-0.79	63.07	16.6	255.6	885	0
6/6/2014 6:30	67480	15	157	4.309	136.3	10.99	6.011	132.4	7.08	7.39	129.9	5.013	24.8	24.39	23.86	-0.409	-0.939	59.73	16.45	318.5	885	0
6/6/2014 6:45	67481	15	157	4.177	143.9	13.12	5.898	138.2	8.07	7.31	135	5.094	25.6	25.07	24.46	-0.532	-1.148	56.48	16.33	382.5	885	0
6/6/2014 7:00	67482	15	157	4.02	139.1	13.36	5.599	133.7	8.31	6.554	130.4	4.788	26.25	25.55	24.89	-0.7	-1.366	53.92	16.2	446.2	886	0
6/6/2014 7:15	67483	15	157	3.535	119.5	20.66	4.834	115	17	5.879	111.2	14.82	27.16	26.41	25.62	-0.75	-1.545	50.85	16.12	508.1	886	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/6/2014 7:30	67484	15	157	3.87	106.5	18.92	5.345	102.3	16.06	6.125	100.2	11.52	27.66	26.79	26.03	-0.879	-1.639	49.03	16.01	571.5	886	0
6/6/2014 7:45	67485	15	157	4.178	114.7	18.79	5.709	111.4	14.2	6.456	105.1	9.79	28.01	27.02	26.26	-0.989	-1.754	48.36	16.11	635	886	0
6/6/2014 8:00	67486	15	157	3.849	106.4	19.31	5.053	103.3	16.68	6.062	100.4	13.56	28.19	27.22	26.25	-0.969	-1.935	48.23	16.23	696.4	886	0
6/6/2014 8:15	67487	15	157	4.267	121	14.87	5.788	114.6	10.75	6.72	109.9	8.46	28.85	27.68	26.77	-1.17	-2.086	45.76	16.01	759.2	886	0
6/6/2014 8:30	67488	15	157	3.909	117	17.51	5.377	112.5	13.36	6.302	109.3	10.09	29.43	28.12	27.21	-1.312	-2.227	44.3	16.03	814	886	0
6/6/2014 8:45	67489	15	157	3.312	130.8	24.38	4.456	124.9	20.21	5.313	119.4	15.28	29.94	28.77	27.82	-1.177	-2.125	41.71	15.55	870	886	0
6/6/2014 9:00	67490	15	157	3.199	151.7	23.52	4.058	144.7	18.11	4.848	137.1	17.46	30.58	29.28	28.41	-1.297	-2.174	39.8	15.38	923	886	0
6/6/2014 9:15	67491	15	157	2.807	147.5	30.51	3.678	142.5	24.83	4.548	138.3	21.86	31.16	29.94	29.04	-1.219	-2.12	37.88	15.13	973	886	0
6/6/2014 9:30	67492	15	157	3.557	165.7	23.4	4.558	160.1	22.59	5.4	160	17.5	32.03	30.56	29.67	-1.472	-2.366	35.62	14.94	1019	886	0
6/6/2014 9:45	67493	15	157	3.073	175.4	27.16	3.798	170	24.8	4.449	168.5	17.45	32.02	30.77	29.9	-1.249	-2.114	34.72	14.53	1059	886	0
6/6/2014 10:00	67494	15	157	3.066	164.5	24.04	3.816	161.5	22.1	4.482	155.9	18.93	32.66	31.21	30.34	-1.456	-2.316	33.56	14.57	1096	886	0
6/6/2014 10:15	67495	15	157	3.28	182.4	28.64	4.045	177.3	27.47	4.822	171	20.7	33.38	31.88	30.92	-1.502	-2.456	32.31	14.6	1128	886	0
6/6/2014 10:30	67496	15	157	2.855	167.8	38.16	3.619	162	34.19	4.091	163	29.99	33.92	32.41	31.54	-1.509	-2.378	30.1	13.97	1159	885	0
6/6/2014 10:45	67497	15	157	2.661	192.9	32.97	3.371	185.2	27.7	4.168	176.1	17.4	34.33	33.1	32.11	-1.229	-2.219	28.48	13.47	1185	885	0
6/6/2014 11:00	67498	15	157	2.959	166	32.86	3.674	157.4	25.43	4.283	150.1	19.96	34.76	33.5	32.58	-1.257	-2.176	27.51	13.31	1207	885	0
6/6/2014 11:15	67499	15	157	3.002	166.9	20.53	3.827	161.2	16.72	4.743	156.6	17.31	35.86	34.25	33.28	-1.602	-2.573	25.88	13.29	1221	885	0
6/6/2014 11:30	67500	15	157	3.804	161.6	29.43	4.807	155.8	23.65	5.799	149.3	16.91	35.8	34.14	33.22	-1.665	-2.586	24.77	12.58	1235	885	0
6/6/2014 11:45	67501	15	157	3.509	176	29.39	4.37	167.3	26.36	5.083	162.7	24.84	36.23	34.56	33.51	-1.667	-2.721	24.25	12.62	1238	885	0
6/6/2014 12:00	67502	15	157	3.849	136.2	26.15	4.973	132.6	22.71	5.764	132.9	24.42	36.38	34.72	33.76	-1.659	-2.617	23.98	12.57	1242	885	0
6/6/2014 12:15	67503	15	157	3.533	156.1	29.87	4.643	152.4	20.52	5.44	144.5	16.22	36.26	34.62	33.71	-1.639	-2.548	23.36	12.08	1244	885	0
6/6/2014 12:30	67504	15	157	3.546	131.5	25.34	4.574	125.8	20.2	5.502	121.2	18.84	37.04	35.22	34.16	-1.827	-2.882	22.03	11.83	1235	884	0
6/6/2014 12:45	67505	15	157	3.926	167.1	23.38	4.984	159.9	19.8	5.675	148.1	13.31	37.26	35.58	34.41	-1.686	-2.852	20.98	11.28	1230	884	0
6/6/2014 13:00	67506	15	157	3.738	108.3	24.49	4.866	105.1	20.36	5.966	104.8	19.36	37.18	35.51	34.67	-1.675	-2.507	21.26	11.41	1211	884	0
6/6/2014 13:15	67507	15	157	4.572	149	35.18	5.919	144.6	33.26	6.72	137.8	27.96	37.83	35.98	34.98	-1.841	-2.848	19.5	10.63	1194	884	0
6/6/2014 13:30	67508	15	157	3.425	172.2	38.66	4.374	173.2	33.91	4.832	174.8	34.83	37.79	36.34	35.56	-1.448	-2.227	18.04	9.44	1177	883	0
6/6/2014 13:45	67509	15	157	3.939	137.6	35.19	5.077	135.2	30.11	5.819	135.2	24.28	38.39	36.66	35.76	-1.733	-2.636	17.24	9.24	1148	883	0
6/6/2014 14:00	67510	15	157	4.266	193.9	31.54	5.464	189.5	30.21	6.503	182.2	24.52	38.81	37.16	36.05	-1.643	-2.758	15.09	7.602	1117	883	0
6/6/2014 14:15	67511	15	157	4.116	169.5	37.13	5.38	164.7	32.34	6.386	162.8	23.86	38.9	37.34	36.28	-1.559	-2.622	14.35	6.94	1094	883	0
6/6/2014 14:30	67512	15	157	3.425	152.1	24.77	4.362	148	24.59	5.241	145.7	14.19	38.85	37.46	36.41	-1.388	-2.434	15.01	7.541	1062	883	0
6/6/2014 14:45	67513	15	157	5.067	154.1	32.4	6.784	151.9	30.15	8.39	146.3	23.89	39	37.7	36.69	-1.302	-2.313	16.26	8.85	724.1	882	0
6/6/2014 15:00	67514	15	157	5.004	153.2	15.98	6.784	148	12.98	8.08	143.7	11.14	38.44	37.36	36.42	-1.079	-2.02	17.68	9.66	593.8	882	0
6/6/2014 15:15	67515	15	157	5.625	153.5	20.06	7.783	148.5	18.58	9.29	142.6	16.08	37.88	36.9	35.96	-0.982	-1.916	19.52	10.69	443.6	882	0
6/6/2014 15:30	67516	15	157	5.488	143.2	14.73	7.907	138.1	10.43	10.08	135.2	8.43	36.85	36.36	35.53	-0.489	-1.327	21.4	11.23	166	882	0
6/6/2014 15:45	67517	15	157	6.592	143.7	14.59	9.49	137.9	10.17	12.07	133.5	7.727	35.92	35.59	34.84	-0.329	-1.073	23.83	12.09	113.9	882	0
6/6/2014 16:00	67518	15	157	7.114	130.7	13.25	10.08	126.3	9.48	13.04	124.2	6.607	35.17	34.93	34.27	-0.234	-0.901	25.7	12.62	79.29	882	0
6/6/2014 16:15	67519	15	157	8.51	136	12.27	12.25	131.4	7.841	15.92	127	5.078	34.39	34.25	33.65	-0.136	-0.737	27.69	13.1	27.17	882	0
6/6/2014 16:30	67520	15	157	7.87	138.6	10.95	11.5	133.7	7.36	15.44	129.2	4.78	31.56	32.21	32.69	0.647	1.126	37.86	15.31	17.49	882	0
6/6/2014 16:45	67521	15	157	7.621	136.6	11.49	11.08	131.9	7.797	14.97	127.7	4.74	31.44	32.04	32.21	0.601	0.772	38.65	15.69	36.59	882	0
6/6/2014 17:00	67522	15	157	6.328	143.9	12.81	9.34	138.9	9.15	12.35	135.4	6.91	31.93	32.27	32.08	0.345	0.153	36.55	15.25	81.9	883	0
6/6/2014 17:15	67523	15	157	7.048	139	13.3	10.39	134.6	9.17	14.23	131.9	7.118	29.94	30.65	31.07	0.705	1.127	44.03	16.33	86.1	882	0
6/6/2014 17:30	67524	15	157	7.274	139	12.79	10.44	134.1	8.74	14.01	131.1	6.439	30.49	30.79	30.79	0.299	0.293	42.11	16.18	116.2	882	0
6/6/2014 17:45	67525	15	157	8.59	138.6	12.76	12.42	134.1	8.95	16.01	129.4	5.917	30.95	31.17	30.97	0.212	0.019	38.67	15.26	87.5	882	0
6/6/2014 18:00	67526	15	157	7.564	136.3	12.49	10.95	130.2	7.665	14.54	125.5	5.035	31.44	31.38	31.01	-0.058	-0.425	36.57	14.82	225.8	882	0
6/6/2014 18:15	67527	15	157	7.978	133.1	11.86	11.19	128.6	8.23	14.72	125.5	5.91	31.52	31.55	31.16	0.022	-0.366	34.97	14.21	145.7	882	0
6/6/2014 18:30	67528	15	157	8.4	130.3	11.88	11.95	126	8.43	15.8	122.5	5.352	31.1	31.19	30.86	0.092	-0.246	34.86	13.79	82.3	882	0
6/6/2014 18:45	67529	15	157	7.543	140.1	12.53	10.87	134.3	8.66	14.19	130.7	6.12	30.64	30.78	30.51	0.145	-0.129	36.5	14.1	38.75	882	0
6/6/2014 19:00	67530	15	157	7.712	150.7	12.09	11.34	145	7.373	14.95	140.7	5.005	30.36	30.55	30.3	0.185	-0.069	37.18	14.14	14.27	881	0
6/6/2014 19:15	67531	15	157	7.2	143.5	12.82	10.53	138.7	9.24	14.06	136.2	7.58	29.78	29.98	29.73	0.197	-0.045	38.16	14.02	5.054	882	0
6/6/2014 19:30	67532	15	157	7.612	139.2	11.98	10.85	133.3	7.655	14.37	129.6	5.816	29.33	29.51	29.28	0.184	-0.054	40.15	14.4	2.127	882	0
6/6/2014 19:45	67533	15	157	7.84	133.7	12.07	11.3	128.8	7.99	14.83	125.8	5.305	29.05	29.23	28.98	0.173	-0.072	41.74	14.76	2.213	883	0
6/6/2014 20:00	67534	15	157	6.806	134.2	12.43	10.02	129	8.36	13.42	125.6	5.651	28.65	28.84	28.6	0.192	-0.052	42.98	14.85	1.77	883	0
6/6/2014 20:15	67535	15	157	6.932	138	11.84	10.16	133.7	7.383	13.53	129.3	5.085	28.31	28.49	28.25	0.179	-0.059	44.2	14.98	1.865	883	0
6/6/2014 20:30	67536	15	157	7.034	136.8	11.23	10.08	131.3	7.9	13.26	127.2	5.74	28.02	28.19	27.93	0.17	-0.089	45.18	15.06	1.942	883	0
6/6/2014 20:45	67537	15	157	7.08	137.5	12.16	10.17	132.8	8.02	12.92	129.5	5.838	27.7	27.86	27.59	0.16	-0.106	46.88	15.34	1.72	884	0
6/6/2014 21:00	67538	15	157	6.787	140.4	12.34	9.85	134.7	7.87	13.09	131.4	5.1	27.43	27.6	27.36	0.169	-0.073	48.35	15.58	1.845	884	0
6/6/2014 21:15	67539	15	157	7.125	139.2	12.52	10.07	134.3	8.7	13.48	131.2	5.691	27.22	27.36	27.11	0.143	-0.109	49.93	15.89	2.025	884	0
6/6/2014 21:30	67540	15	157	7.079	139.4	12.35	10.38	135.2	7.673	13.79	132.3	5.401	26.99	27.14	26.88	0.15	-0.113	51.02	16.02	2.086	884	0
6/6/2014 21:45	67541	15	157	6.319	139.9	11.52	9.24	135.2	8.25	12.5	131.7	6.007	26.66	26.81	26.56	0.153	-0.106	52.56	16.18	1.788	884	0
6/6/2014 22:00	67542	15	157	6.39	142.4	11.87	9.39	138.2	8.59	12.85	134.8	5.893	26.36	26.52	26.26	0.156	-0.099	54.07	16.35	1.891	884	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/6/2014 22:15	67543	15	157	7.401	145.3	12.4	10.42	140.3	7.926	13.78	136	6.338	26.09	26.23	25.95	0.136	-0.137	55.43	16.49	1.92	884	0
6/6/2014 22:30	67544	15	157	7.383	149	12.34	10.58	144.2	8.13	13.78	140.4	5.858	25.85	25.98	25.7	0.132	-0.149	56.29	16.51	2.057	883	0
6/6/2014 22:45	67545	15	157	7.255	149.7	12.29	10.64	145.3	8.8	14.37	142.6	6.293	25.67	25.81	25.53	0.137	-0.139	56.57	16.41	1.809	883	0
6/6/2014 23:00	67546	15	157	7.145	149.4	12.88	10.66	144.5	8.32	14.13	141.5	5.531	25.44	25.58	25.32	0.14	-0.125	57.42	16.44	2.056	883	0
6/6/2014 23:15	67547	15	157	6.828	148.7	13.05	10.08	144.1	7.883	13.5	140.4	5.932	25.27	25.41	25.14	0.139	-0.126	57.89	16.4	1.866	883	0
6/6/2014 23:30	67548	15	157	7.002	150.1	12.6	10.23	143.9	8.31	13.61	141	5.6	25.13	25.27	25.01	0.134	-0.126	58.39	16.41	2.16	883	0
6/6/2014 23:45	67549	15	157	5.873	152	12.9	8.72	145.8	8.9	11.92	142.1	6.44	24.98	25.14	24.89	0.157	-0.096	58.76	16.37	1.775	884	0
6/7/2014 0:00	67550	15	158	6.183	152.4	12.36	9.15	147.6	7.663	11.81	143.9	5.768	24.86	25.03	24.77	0.17	-0.084	59.06	16.33	1.811	884	0
6/7/2014 0:15	67551	15	158	5.799	153	12.41	8.27	148.3	8.81	11.37	144.5	6.185	24.69	24.86	24.64	0.174	-0.048	59.47	16.28	1.636	884	0
6/7/2014 0:30	67552	15	158	5.421	162.8	24.86	7.689	158.9	21.38	9.78	154.9	17.5	24.69	24.88	24.62	0.195	-0.063	59.23	16.22	1.428	884	0
6/7/2014 0:45	67553	15	158	3.474	146.4	20.04	5.093	143.1	14.19	7.148	141.8	12.15	24.39	24.64	24.43	0.254	0.046	60.08	16.16	1.121	884	0
6/7/2014 1:00	67554	15	158	2.886	95.1	24.16	4.446	92.4	19.67	5.81	93.4	15.96	24.1	24.43	24.34	0.335	0.241	60.84	16.08	1.172	885	0
6/7/2014 1:15	67555	15	158	3.93	121.9	14.95	5.87	118.9	10.58	7.991	119.4	8.26	24.05	24.33	24.21	0.283	0.16	61.25	16.14	1.249	884	0
6/7/2014 1:30	67556	15	158	3.729	112.7	14.31	5.664	109.1	11.07	8.04	108.8	7.358	23.8	24.09	24.03	0.29	0.222	61.81	16.06	1.199	884	0
6/7/2014 1:45	67557	15	158	3.637	114.6	15.28	5.436	111.8	11.82	8.15	112.2	7.346	23.62	23.9	23.84	0.276	0.215	62.5	16.06	1.102	884	0
6/7/2014 2:00	67558	15	158	3.772	117.7	17.67	5.568	111.7	13.75	8.27	109.8	8.6	23.38	23.67	23.69	0.289	0.307	63.37	16.05	1.324	884	0
6/7/2014 2:15	67559	15	158	4.364	129.7	12.01	6.42	124.5	7.895	9.41	121.5	5.14	23.35	23.6	23.58	0.25	0.229	63.45	16.04	1.574	884	0
6/7/2014 2:30	67560	15	158	3.67	111.7	13.43	5.622	108.2	8.85	8.51	107.9	5.483	23.05	23.34	23.35	0.285	0.299	64.34	15.98	1.205	884	0
6/7/2014 2:45	67561	15	158	4.541	129.9	13.03	6.831	125.1	9.34	9.41	119.4	6.503	23.09	23.35	23.23	0.256	0.145	64.05	15.94	1.423	884	0
6/7/2014 3:00	67562	15	158	4.384	110.3	12.69	6.537	106.5	8.07	9.46	105.9	5.852	22.88	23.12	23.03	0.244	0.153	64.55	15.86	1.304	885	0
6/7/2014 3:15	67563	15	158	4.858	122.1	11.49	7.108	118.9	7.375	10.34	114.9	4.889	22.77	23	22.92	0.222	0.15	64.63	15.78	1.594	884	0
6/7/2014 3:30	67564	15	158	5.036	112.4	13.51	7.476	108.3	8.8	10.23	105.5	6.431	22.64	22.87	22.75	0.226	0.107	64.94	15.73	1.563	885	0
6/7/2014 3:45	67565	15	158	5.233	125.6	12.15	7.634	120.9	7.677	10.8	117	4.88	22.5	22.71	22.64	0.216	0.139	65.5	15.73	1.696	884	0
6/7/2014 4:00	67566	15	158	5.227	121.9	12.27	7.695	118	7.726	11.05	114.8	4.767	22.36	22.56	22.47	0.205	0.115	66.08	15.73	1.705	884	0
6/7/2014 4:15	67567	15	158	5.293	123.4	12.3	7.676	119.2	7.674	11.25	114.6	4.963	22.15	22.35	22.26	0.201	0.119	67.23	15.8	1.783	884	0
6/7/2014 4:30	67568	15	158	5.725	126.1	12.09	8.42	121.1	7.642	11.5	117.4	4.689	22.04	22.23	22.1	0.188	0.053	68.31	15.95	1.68	884	0
6/7/2014 4:45	67569	15	158	5.465	127.1	11.49	8.13	122.9	7.266	11.7	118.7	4.28	21.8	22.01	21.89	0.201	0.087	69.59	16.01	2.492	884	0
6/7/2014 5:00	67570	15	158	5.351	126.9	11.6	8.14	121.8	6.849	11.48	118.4	4.248	21.67	21.86	21.73	0.187	0.052	70.83	16.17	7.332	885	0
6/7/2014 5:15	67571	15	158	5.578	128.3	11.78	8.26	123.5	7.005	11.26	120.1	5.166	21.65	21.79	21.6	0.139	-0.049	71.63	16.32	27.72	885	0
6/7/2014 5:30	67572	15	158	5.619	132.9	11.52	8.27	127.2	7.348	11.29	122.3	4.831	21.75	21.83	21.58	0.077	-0.172	71.77	16.45	67.36	885	0
6/7/2014 5:45	67573	15	158	5.74	132.7	11.85	8.43	127.7	7.383	11.31	123.8	5.233	21.94	21.92	21.58	-0.023	-0.361	71.49	16.57	117.2	885	0
6/7/2014 6:00	67574	15	158	5.832	138.6	11.96	8.49	134.1	7.754	10.94	130	5.792	22.25	22.13	21.71	-0.123	-0.536	70.51	16.65	170.9	885	0
6/7/2014 6:15	67575	15	158	5.266	134.7	12.39	7.307	130.2	8.69	9.32	123.9	6.123	22.66	22.42	21.93	-0.239	-0.732	68.99	16.7	235.2	885	0
6/7/2014 6:30	67576	15	158	4.75	119.3	15.65	6.505	115.4	11.71	8.17	112	8.39	23.17	22.81	22.24	-0.36	-0.927	66.93	16.7	297.4	886	0
6/7/2014 6:45	67577	15	158	5.389	127.3	14.41	7.621	121.4	10.44	9.35	116.9	8.54	23.56	23.09	22.41	-0.473	-1.152	65.12	16.64	358.2	886	0
6/7/2014 7:00	67578	15	158	5.231	119.3	17.05	7.281	114.6	11.95	8.8	110.7	8.3	23.95	23.33	22.61	-0.615	-1.336	63.53	16.62	437	886	0
6/7/2014 7:15	67579	15	158	4.711	131.1	14.73	6.464	126.1	9.95	8.19	120.6	6.11	24.52	23.74	22.85	-0.781	-1.674	61.45	16.64	520.6	887	0
6/7/2014 7:30	67580	15	158	4.438	114	14.23	6.174	110.4	9.65	7.53	105.8	6.558	24.87	23.97	23.14	-0.891	-1.73	59.94	16.57	551.6	887	0
6/7/2014 7:45	67581	15	158	4.695	117.7	18.07	6.275	113.2	12.95	7.469	109.9	10.04	25.28	24.27	23.43	-1.013	-1.849	58.36	16.54	630.9	887	0
6/7/2014 8:00	67582	15	158	4.938	113.4	16.14	6.882	107.9	12.22	8.12	104.6	9.86	25.79	24.71	23.72	-1.088	-2.078	56.46	16.5	681.9	887	0
6/7/2014 8:15	67583	15	158	5.094	116.8	14.33	7.065	113.8	10.02	8.07	109.2	8.04	26.14	24.94	24.09	-1.198	-2.047	55.3	16.5	736.7	887	0
6/7/2014 8:30	67584	15	158	4.512	104.1	16.2	5.998	100.2	12.4	7.137	98.9	10.06	26.61	25.34	24.41	-1.273	-2.203	53.93	16.54	791.2	887	0
6/7/2014 8:45	67585	15	158	4.487	102	15.28	5.993	98.7	12.15	6.911	97.2	9.65	27.2	25.86	24.89	-1.333	-2.31	51.62	16.39	846	887	0
6/7/2014 9:00	67586	15	158	4.46	107	16.23	5.852	103.8	13.18	6.92	102.3	11.57	27.62	26.21	25.16	-1.408	-2.459	50.6	16.46	899	887	0
6/7/2014 9:15	67587	15	158	3.862	122.2	18.56	5.163	117.8	13.29	6.066	112.6	10.96	27.91	26.5	25.54	-1.411	-2.368	49.23	16.3	946	887	0
6/7/2014 9:30	67588	15	158	3.292	119	21.62	4.352	115.5	16.67	5.036	110.8	16.55	28.2	26.8	26.03	-1.399	-2.169	48.34	16.28	1005	887	0
6/7/2014 9:45	67589	15	158	2.823	113.5	40.07	3.469	112.6	32.49	4.271	112.9	23.47	28.44	27.19	26.31	-1.257	-2.137	47.12	16.1	1041	888	0
6/7/2014 10:00	67590	15	158	2.199	116.9	55.36	2.734	111.2	47.35	3.091	106.1	42.45	28.23	27.17	26.35	-1.055	-1.876	46.92	15.84	1079	888	0
6/7/2014 10:15	67591	15	158	2.241	129.1	41.81	2.714	123.5	37.13	3.141	104.8	40.66	28.8	27.61	26.78	-1.19	-2.017	46.08	16.07	1112	887	0
6/7/2014 10:30	67592	15	158	2.041	84.6	46	2.513	94.6	46.79	3.055	98	37.32	29.52	28.34	27.46	-1.174	-2.05	43.99	15.98	1140	887	0
6/7/2014 10:45	67593	15	158	2.062	123.1	39.51	2.74	119.4	33.49	3.241	116.5	28.72	29.88	28.54	27.6	-1.338	-2.28	42.27	15.7	1142	887	0
6/7/2014 11:00	67594	15	158	2.68	101.5	34.26	3.32	99.3	32.54	3.782	102.3	32.58	30.09	28.75	27.97	-1.335	-2.122	41.63	15.65	1184	887	0
6/7/2014 11:15	67595	15	158	2.454	128.6	27.28	3.137	126.8	24.26	3.843	117.4	19.35	30.87	29.32	28.25	-1.548	-2.622	39.8	15.64	1205	887	0
6/7/2014 11:30	67596	15	158	2.159	152.2	44.94	2.621	143.8	35.75	3.296	135.8	25.65	30.5	29.29	28.5	-1.208	-2	39.45	15.18	1211	887	0
6/7/2014 11:45	67597	15	158	2.925	116.3	40.48	3.779	110	35.01	4.43	101.3	29.17	31.53	29.99	29.04	-1.542	-2.49	37.76	15.41	1253	887	0
6/7/2014 12:00	67598	15	158	2.219	81.1	44.54	2.908	72.19	29.79	3.711	71.09	20.25	31.68	30.45	29.53	-1.23	-2.151	36.74	15.11	1144	887	0
6/7/2014 12:15	67599	15	158	2.931	68.14	36.02	3.725	64.02	29.2	4.366	63.11	22.36	32.16	30.53	29.59	-1.634	-2.569	35.23	14.88	1236	887	0
6/7/2014 12:30	67600	15	158	2.222	297.7	66.59	2.636	296.8	66.7	2.486	310.4	76.36	32.09	30.93	30.12	-1.159	-1.969	33.76	14.16	1222	886	0
6/7/2014 12:45	67601	15	158	2.285	60.55	66.91	2.801	58.7	63.38	3.364	66.94	55.66	32.51	31.42	30.69	-1.089	-1.814	33.6	14.45	1207	886	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/7/2014 13:00	67602	15	158	2.443	143.6	57.71	2.943	137.6	53.77	3.212	118.9	43.19	32.8	31.53	30.68	-1.276	-2.122	32.36	14.13	1211	886	0
6/7/2014 13:15	67603	15	158	2.873	74.35	33.03	3.688	75.66	25.26	4.106	77.21	25.35	33.35	31.82	30.96	-1.528	-2.39	31.6	14.23	1152	886	0
6/7/2014 13:30	67604	15	158	2.3	74.39	59.98	2.791	56.33	55.71	3.607	48.14	34.05	33.31	32.19	31.52	-1.123	-1.791	30.97	13.89	1179	886	0
6/7/2014 13:45	67605	15	158	2.449	69.29	75.3	2.898	73.91	66.27	3.675	60.77	33.08	33.53	32.44	31.5	-1.096	-2.037	30	13.59	1128	885	0
6/7/2014 14:00	67606	15	158	2.515	40.18	34.29	3.201	38.25	29.67	3.666	41.45	25.43	34	32.64	31.83	-1.366	-2.176	28.49	13.2	1086	885	0
6/7/2014 14:15	67607	15	158	2.585	87.5	47.36	3.242	84.9	37.96	3.679	78.84	34.43	34.23	33.22	32.36	-1.016	-1.873	27.99	13.13	1054	885	0
6/7/2014 14:30	67608	15	158	2.943	84	36.44	3.655	80.6	31.6	3.992	85.6	22.49	34.59	33.22	32.34	-1.376	-2.255	27.8	13.33	1007	885	0
6/7/2014 14:45	67609	15	158	2.388	108.1	41.23	3.157	103.1	35.47	3.914	99.7	21.57	34.54	33.38	32.42	-1.163	-2.12	27.51	13.12	975	885	0
6/7/2014 15:00	67610	15	158	3.062	93.2	46.53	4.017	92	42.59	4.68	79.29	35.28	35.39	34	33	-1.391	-2.389	26.23	13.11	930	884	0
6/7/2014 15:15	67611	15	158	2.269	100.5	57.85	2.77	100.6	52.76	3.65	105.7	45.98	34.96	34.25	33.47	-0.714	-1.494	25.67	12.43	885	884	0
6/7/2014 15:30	67612	15	158	2.663	60.45	28.01	3.437	55.29	20.81	4.113	49.97	17.45	35.11	34.08	33.22	-1.029	-1.892	24.89	12.08	823	884	0
6/7/2014 15:45	67613	15	158	2.728	110.5	58.46	3.353	106.9	51.86	3.815	105	41.85	35.46	34.43	33.64	-1.024	-1.816	24.28	11.99	766.4	884	0
6/7/2014 16:00	67614	15	158	2.716	163.4	60.35	3.21	147.8	52.29	3.348	127.7	54.03	35.34	34.42	33.7	-0.918	-1.634	24.31	11.91	717.6	884	0
6/7/2014 16:15	67615	15	158	2.489	112.7	52.23	3.268	104.7	56.43	3.667	108.5	46.62	35.71	34.86	34.09	-0.853	-1.622	22.49	11.01	656.9	884	0
6/7/2014 16:30	67616	15	158	2.18	140.1	28.79	2.773	137.9	27.26	3.361	135.3	27.41	35.77	34.97	34.25	-0.797	-1.518	20.4	9.63	593.7	883	0
6/7/2014 16:45	67617	15	158	2.415	112.3	28.98	3.159	109.4	29.06	3.85	109.1	25.99	35.79	35.08	34.3	-0.716	-1.491	21.81	10.63	531.6	883	0
6/7/2014 17:00	67618	15	158	2.647	119	40.18	3.642	116.5	33.03	4.645	117.9	27.57	36.03	35.19	34.45	-0.843	-1.587	21.58	10.68	466.1	883	0
6/7/2014 17:15	67619	15	158	3.062	129.7	31.37	4.008	124	27.33	4.697	119	23.58	35.96	35.19	34.46	-0.762	-1.494	21.15	10.32	399.7	883	0
6/7/2014 17:30	67620	15	158	3.682	123.1	30.39	5.173	117.1	25.22	6.05	110.6	18.89	35.89	35.22	34.48	-0.671	-1.413	22.24	11.02	328.8	883	0
6/7/2014 17:45	67621	15	158	2.776	138.6	22.9	3.873	132.8	19.87	4.657	124.9	20.17	35.64	35.15	34.41	-0.498	-1.236	22.73	11.15	262.2	883	0
6/7/2014 18:00	67622	15	158	3.617	120.1	18.17	4.926	117.1	14.12	5.889	113	11.89	35.3	34.95	34.33	-0.345	-0.965	23.65	11.46	200.1	883	0
6/7/2014 18:15	67623	15	158	6.996	151.2	18.37	9.97	145.5	14.44	12.77	142.5	11.2	33.83	33.48	32.69	-0.349	-1.134	30.12	13.82	167	883	0
6/7/2014 18:30	67624	15	158	7.103	150.9	12.37	10.4	145.9	8.01	13.32	142.5	5.334	32.23	32	31.31	-0.223	-0.914	35.36	14.99	79.82	883	0
6/7/2014 18:45	67625	15	158	6.017	144.5	11.78	8.88	139.5	7.948	12.06	136	5.617	31.38	31.3	30.76	-0.082	-0.624	37.7	15.25	29.79	883	0
6/7/2014 19:00	67626	15	158	7.047	148.8	13.27	9.93	143.5	8.67	13.23	140.2	6.015	30.03	30	29.47	-0.036	-0.568	39.55	14.78	11.56	883	0
6/7/2014 19:15	67627	15	158	7.498	145.4	12.83	10.92	141.1	8.67	14.15	137.2	5.569	28.88	28.82	28.35	-0.058	-0.538	46.03	16.13	3.914	884	0
6/7/2014 19:30	67628	15	158	6.797	145	12.73	9.86	139.5	8.21	13.07	135.7	5.536	28.51	28.5	28.08	-0.008	-0.426	47.34	16.23	2.277	884	0
6/7/2014 19:45	67629	15	158	5.77	131.6	12.46	8.25	126.3	9.05	10.83	123.4	7.001	28.23	28.27	27.89	0.042	-0.338	47.22	15.94	1.712	884	0
6/7/2014 20:00	67630	15	158	4.905	127.3	12.85	7.296	122.6	8.26	9.78	117.6	5.869	27.97	28.03	27.69	0.068	-0.28	47.57	15.82	1.544	885	0
6/7/2014 20:15	67631	15	158	5.228	132.8	12.02	7.558	127.8	8.2	10.19	123.3	5.944	27.73	27.81	27.46	0.071	-0.273	48.35	15.86	1.369	885	0
6/7/2014 20:30	67632	15	158	5.742	134.4	12.11	8.36	128.8	8.09	10.93	124.2	5.87	27.59	27.66	27.32	0.071	-0.27	48.55	15.79	1.86	885	0
6/7/2014 20:45	67633	15	158	5.655	133.2	11.53	8.08	129.5	8	10.65	125.8	5.653	27.43	27.51	27.18	0.086	-0.246	48.77	15.72	1.714	885	0
6/7/2014 21:00	67634	15	158	4.969	130.3	12.18	7.424	126.3	8.48	9.78	122.6	5.87	27.27	27.38	27.07	0.115	-0.197	48.66	15.53	1.398	885	0
6/7/2014 21:15	67635	15	158	5.781	139.9	12.93	8.35	133.9	8.23	11.1	130.6	6.311	27.16	27.27	26.96	0.104	-0.207	48.57	15.41	1.6	885	0
6/7/2014 21:30	67636	15	158	6.428	135.9	12.19	8.98	131.7	8.64	11.4	127.6	5.702	27.04	27.13	26.81	0.09	-0.232	48.62	15.31	1.685	885	0
6/7/2014 21:45	67637	15	158	5.686	134	12.05	8.26	128.9	8.04	10.88	124.8	6.597	26.83	26.94	26.64	0.111	-0.186	49.26	15.32	1.561	886	0
6/7/2014 22:00	67638	15	158	5.446	125.9	13.26	8.04	122.2	7.545	10.8	118.9	5.792	26.63	26.75	26.45	0.122	-0.173	50.16	15.42	1.647	886	0
6/7/2014 22:15	67639	15	158	5.68	131.5	13.22	8.13	126.7	9.51	10.87	123.3	5.933	26.49	26.58	26.28	0.091	-0.217	51.15	15.6	1.695	886	0
6/7/2014 22:30	67640	15	158	5.457	136.1	12.44	7.674	132	8.21	10.33	128.9	5.753	26.28	26.38	26.08	0.099	-0.203	52.18	15.72	1.608	886	0
6/7/2014 22:45	67641	15	158	4.774	146.5	13.41	7.144	141.1	8.95	9.7	137.8	6.372	26.05	26.18	25.88	0.131	-0.17	53.34	15.84	1.515	886	0
6/7/2014 23:00	67642	15	158	4.341	144.4	13.95	6.436	139.2	9.74	8.57	135.8	8.16	25.86	26.01	25.71	0.148	-0.154	54.26	15.94	1.343	886	0
6/7/2014 23:15	67643	15	158	3.698	129	13.45	5.388	124.8	10.3	7.349	122.2	7.984	25.61	25.78	25.51	0.172	-0.093	55.34	16.01	1.228	886	0
6/7/2014 23:30	67644	15	158	3.528	138.5	16.75	5.228	132.1	12.07	7.065	127.7	9.02	25.47	25.64	25.37	0.168	-0.096	56.12	16.1	1.152	886	0
6/7/2014 23:45	67645	15	158	3.749	146.7	17	5.466	142.5	12.92	7.145	139.1	10.33	25.43	25.55	25.24	0.111	-0.2	56.48	16.17	1.222	886	0
6/8/2014 0:00	67646	15	159	2.581	87.2	24.36	3.719	85.7	22.94	4.886	90.9	19.19	25.3	25.44	25.17	0.14	-0.134	57.05	16.21	0.822	887	0
6/8/2014 0:15	67647	15	159	2.875	108.6	17.43	4.219	103.1	14.76	5.369	100	12.38	25.19	25.35	25.12	0.167	-0.063	57.45	16.21	0.881	887	0
6/8/2014 0:30	67648	15	159	3.669	104.7	11.81	5.148	101.2	8.05	7.048	98.9	5.182	25.16	25.25	25	0.094	-0.159	57.55	16.21	1.034	887	0
6/8/2014 0:45	67649	15	159	4.425	99.5	12.84	6.252	97.5	9.26	8.6	95.7	6.346	25.15	25.21	24.92	0.056	-0.234	57.54	16.2	1.307	886	0
6/8/2014 1:00	67650	15	159	4.059	45.14	21.44	6.124	42.73	19.35	8.41	43.93	20.56	25.22	25.25	24.94	0.025	-0.282	57.36	16.22	1.338	887	0
6/8/2014 1:15	67651	15	159	4.304	53.04	15.91	6.404	49.23	11.58	8.6	49.44	9.28	25.26	25.33	25.02	0.064	-0.245	56.83	16.11	1.255	888	0
6/8/2014 1:30	67652	15	159	5.599	46.02	13.45	8.61	42.7	9.15	11.51	40.02	6.651	22.82	22.71	22.26	-0.103	-0.56	61.2	14.96	1.662	888	0
6/8/2014 1:45	67653	15	159	6.121	61.3	12.66	8.77	56.33	8.52	10.97	52.9	6.368	21.93	21.76	21.3	-0.164	-0.629	63.84	14.79	1.681	887	0
6/8/2014 2:00	67654	15	159	6.182	63.73	11.89	8.82	57.6	8.66	11.44	54.26	6.292	21.34	21.2	20.74	-0.139	-0.596	64.51	14.39	1.853	887	0
6/8/2014 2:15	67655	15	159	6.083	65.29	11.54	8.7	60.65	7.98	11.75	57.89	4.82	20.67	20.58	20.17	-0.093	-0.503	66.08	14.13	1.835	887	0
6/8/2014 2:30	67656	15	159	6.42	69.06	10.75	9.28	64.74	6.877	12.07	62.17	4.291	19.83	19.73	19.32	-0.105	-0.508	68.55	13.89	1.754	887	0
6/8/2014 2:45	67657	15	159	6.014	67.55	12.01	8.45	64.1	7.744	11.09	62.07	5.487	19.57	19.49	19.11	-0.076	-0.455	71.19	14.22	1.715	887	0
6/8/2014 3:00	67658	15	159	4.836	64.27	12.23	7.083	60.3	8.41	9.42	58.98	5.224	19.57	19.52	19.17	-0.055	-0.403	71.51	14.3	1.526	888	0
6/8/2014 3:15	67659	15	159	4.685	65.16	10.53	6.603	61.32	7.825	9.12	60.1	4.887	19.61	19.58	19.26	-0.03	-0.353	71.06	14.24	1.459	888	0
6/8/2014 3:30	67660	15	159	4.798	61.98	12.22	6.863	57.39	7.919	9.17	55.71	4.304	19.33	19.28	18.91	-0.05	-0.413	72.51	14.28	1.615	888	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/8/2014 3:45	67661	15	159	4.558	64.58	11.1	6.521	60.84	7.946	8.59	59.52	5.04	18.94	18.88	18.52	-0.059	-0.426	74.36	14.3	1.522	888	0
6/8/2014 4:00	67662	15	159	4.169	63.96	12.85	5.976	60.38	8.6	8.12	59.27	5.279	18.64	18.54	18.17	-0.102	-0.469	76.22	14.38	1.405	888	0
6/8/2014 4:15	67663	15	159	4.223	67.98	11.47	6.045	62.76	7.871	7.732	60.08	4.9	18.8	18.61	18.18	-0.186	-0.624	75.59	14.41	1.321	888	0
6/8/2014 4:30	67664	15	159	5.198	72.89	11.16	7.123	68.3	7.531	9.09	64.84	5.611	18.74	18.55	18.07	-0.196	-0.67	75.83	14.41	1.544	888	0
6/8/2014 4:45	67665	15	159	5.182	76.69	10.56	7.199	72.66	6.743	9.39	68.91	4.808	18.71	18.51	18.05	-0.203	-0.666	76.44	14.5	1.69	888	0
6/8/2014 5:00	67666	15	159	5.087	78.94	11.03	7.187	73.83	7.391	9.19	70.85	5.376	18.79	18.6	18.15	-0.186	-0.634	75.89	14.46	4.453	888	0
6/8/2014 5:15	67667	15	159	4.712	82.8	11.49	6.605	78.39	8.59	8.77	76.15	6.469	18.91	18.74	18.32	-0.167	-0.593	74.74	14.34	20.48	888	0
6/8/2014 5:30	67668	15	159	4.829	91.3	12.01	6.857	88	7.779	9.32	85.5	5.41	19.2	19.02	18.62	-0.185	-0.582	73.15	14.29	37.71	888	0
6/8/2014 5:45	67669	15	159	4.923	97.2	11.88	6.875	92.4	7.736	9.56	88.7	5.15	19.71	19.52	19.14	-0.19	-0.57	69.8	14.05	48.15	889	0
6/8/2014 6:00	67670	15	159	5.103	101.6	12.12	7.074	96.2	7.974	9.7	91.5	5.867	20.14	19.95	19.63	-0.197	-0.516	67.42	13.93	73.31	889	0
6/8/2014 6:15	67671	15	159	5.482	107.1	11.88	7.701	103.4	7.506	9.8	99.9	5.052	20.6	20.34	19.93	-0.258	-0.67	64.43	13.67	100	889	0
6/8/2014 6:30	67672	15	159	5.343	109.1	12.29	7.736	104.8	7.995	10.04	102.1	5.479	20.86	20.56	20.09	-0.292	-0.765	63.06	13.58	112.2	889	0
6/8/2014 6:45	67673	15	159	5.765	114.6	12.11	8.41	109.6	6.958	10.3	103.7	5.37	21.35	21.06	20.58	-0.291	-0.77	61.05	13.55	111.6	889	0
6/8/2014 7:00	67674	15	159	6.011	110.1	12.74	8.76	106.3	7.875	11.05	102.2	6.312	21.65	21.42	20.91	-0.226	-0.74	59.4	13.42	82.7	889	0
6/8/2014 7:15	67675	15	159	5.894	112.5	13.56	8.34	108.7	9.76	10.58	103.7	5.661	21.91	21.52	20.9	-0.384	-1.004	58.42	13.4	188.8	889	0
6/8/2014 7:30	67676	15	159	6.008	116.2	12.76	8.61	111.7	8.03	10.83	107.7	6.086	22.11	21.62	20.92	-0.49	-1.182	58.59	13.63	251.6	890	0
6/8/2014 7:45	67677	15	159	5.843	118.2	13.5	8.36	113.5	8.5	10.29	109.3	6.371	22.24	21.74	21.04	-0.504	-1.2	59.68	14.04	221.5	890	0
6/8/2014 8:00	67678	15	159	6.024	120.8	13.31	8.57	117.1	8.59	10.37	113.2	6.497	22.53	21.92	21.21	-0.603	-1.32	59.87	14.36	310.7	890	0
6/8/2014 8:15	67679	15	159	5.511	125.6	13.32	7.75	119.7	9.41	9.48	115.3	7.428	22.94	22.33	21.58	-0.616	-1.363	59.53	14.66	273	890	0
6/8/2014 8:30	67680	15	159	5.238	125.3	15.32	7.446	120.1	10.82	9.58	115.4	7.827	22.78	22.27	21.5	-0.513	-1.284	61.07	14.91	192.4	890	0
6/8/2014 8:45	67681	15	159	3.759	134.6	23.05	5.201	131.5	18.08	6.772	126.1	12.45	22.46	22.11	21.49	-0.354	-0.971	62.19	14.89	101.2	890	0
6/8/2014 9:00	67682	15	159	1.858	155.6	29.79	2.53	148.1	23.44	3.457	147.1	19.04	22.39	22.12	21.58	-0.265	-0.806	63.49	15.14	73.91	890	0
6/8/2014 9:15	67683	15	159	1.658	150.1	24.93	2.189	141.3	21.29	2.737	134.7	15	22.46	22.18	21.7	-0.278	-0.763	63.75	15.27	91.2	890	0
6/8/2014 9:30	67684	15	159	1.968	148.9	19.05	2.748	144.6	14.95	3.231	146.2	14.03	22.7	22.36	21.89	-0.333	-0.807	63.78	15.5	88.1	890	0
6/8/2014 9:45	67685	15	159	3.138	137.2	14.7	4.233	133.7	12.5	4.942	132.4	9.22	22.84	22.51	21.96	-0.33	-0.878	63.06	15.46	110.4	890	0
6/8/2014 10:00	67686	15	159	3.194	138.9	15.33	4.551	134.6	10.06	5.456	130.4	7.495	22.95	22.53	21.93	-0.427	-1.024	63.22	15.61	144.8	890	0
6/8/2014 10:15	67687	15	159	3.249	131.2	13.82	4.602	125.2	10.85	5.34	121.3	8	22.96	22.5	21.92	-0.454	-1.037	62.64	15.47	163.5	890	0
6/8/2014 10:30	67688	15	159	3.622	108	14.37	5.002	106.1	9.57	5.817	105.8	7.338	22.76	22.35	21.76	-0.416	-1.006	62.76	15.31	133.9	890	0
6/8/2014 10:45	67689	15	159	3.74	105.3	14.4	5.389	99.9	11.19	6.58	95.2	8.44	22.23	22	21.46	-0.231	-0.773	66.35	15.67	132.9	890	0
6/8/2014 11:00	67690	15	159	3.874	95.1	13.41	5.566	90.9	8.68	6.493	87.3	6.029	22.23	21.89	21.34	-0.347	-0.897	66.32	15.67	187.7	890	0
6/8/2014 11:15	67691	15	159	4.147	96	14.92	5.521	93.1	10.23	6.687	92.1	8.2	22.52	22.04	21.39	-0.481	-1.13	64.73	15.56	257.9	890	0
6/8/2014 11:30	67692	15	159	4.514	109.1	14.69	6.262	106	10.73	7.308	104.1	7.1	23.05	22.08	21.23	-0.965	-1.816	64.22	15.94	493.5	890	0
6/8/2014 11:45	67693	15	159	4.519	100	12.38	5.963	98.5	8.74	6.952	96.7	5.755	22.71	21.82	20.96	-0.891	-1.747	64.68	15.73	441.5	890	0
6/8/2014 12:00	67694	15	159	3.738	110.1	15.63	4.996	106.9	12.85	5.702	103.7	10.75	22.71	21.82	21.15	-0.884	-1.556	64.85	15.77	360	889	0
6/8/2014 12:15	67695	15	159	3.32	106.3	18.6	4.379	103.8	14.82	5.324	101.5	12.03	22.94	22.14	21.36	-0.805	-1.581	64.29	15.86	332	889	0
6/8/2014 12:30	67696	15	159	3.323	105.9	20.6	4.291	102.5	16.84	5.137	97	12.99	23.03	22.26	21.62	-0.772	-1.412	64.22	15.92	317.4	889	0
6/8/2014 12:45	67697	15	159	3.399	99.7	16.83	4.615	94.1	12.62	5.517	89.6	10.02	23.47	22.64	21.93	-0.826	-1.536	62.29	15.86	306.7	889	0
6/8/2014 13:00	67698	15	159	3.402	98.9	14.77	4.659	95.8	11.32	5.731	93.1	8.98	23.66	22.85	22.14	-0.803	-1.52	63.72	16.4	345.6	888	0
6/8/2014 13:15	67699	15	159	4.002	110.7	16.84	5.403	104.7	11.59	6.209	100.7	9.9	24.32	23.3	22.56	-1.021	-1.766	61.89	16.56	456.6	888	0
6/8/2014 13:30	67700	15	159	3.97	103.1	15.09	5.343	98.5	10.87	6.486	93.7	8.32	24.62	23.59	22.66	-1.027	-1.965	60.6	16.52	491.7	888	0
6/8/2014 13:45	67701	15	159	4.451	97.4	17.33	5.948	95.2	13.91	6.975	92.9	10.43	24.84	23.71	22.78	-1.132	-2.06	59.35	16.4	555.8	887	0
6/8/2014 14:00	67702	15	159	4.156	106.3	16.1	5.713	102.3	11.35	6.676	100	10.62	25.61	24.23	23.25	-1.38	-2.359	57.77	16.69	717.5	887	0
6/8/2014 14:15	67703	15	159	5.244	103.4	13.42	7.178	99.7	11.06	8.58	94.9	8.53	25.75	24.45	23.44	-1.304	-2.307	56.32	16.42	690.2	887	0
6/8/2014 14:30	67704	15	159	5.159	106	14.7	7.05	101.3	10.46	8.52	98.3	8.55	26.27	24.82	23.7	-1.448	-2.576	54.37	16.35	870	887	0
6/8/2014 14:45	67705	15	159	5.45	108.7	14.69	7.449	104.1	10.28	8.99	101.3	7.631	26.94	25.52	24.31	-1.426	-2.63	52.21	16.34	853	886	0
6/8/2014 15:00	67706	15	159	5.109	114.8	16.64	6.994	110.9	12.77	8.35	109	10.43	27.51	25.99	24.96	-1.52	-2.548	51.22	16.55	906	886	0
6/8/2014 15:15	67707	15	159	5.554	116.6	17.33	7.619	113.2	13.66	8.84	108.3	11.9	27.9	26.33	25.31	-1.571	-2.595	49.62	16.42	880	886	0
6/8/2014 15:30	67708	15	159	5.552	112.8	16.51	7.579	109.3	12.54	8.86	106.4	10.02	28.17	26.71	25.72	-1.454	-2.451	48.99	16.46	829	885	0
6/8/2014 15:45	67709	15	159	5.173	112.9	14.95	7.062	109.1	11.36	8.36	107.3	10.97	28.76	27.34	26.25	-1.42	-2.504	47.69	16.58	786.2	885	0
6/8/2014 16:00	67710	15	159	5.19	116.7	15.81	7.049	113.8	12.57	8.72	110.1	10.5	29.05	27.66	26.55	-1.386	-2.499	46.93	16.59	748.4	885	0
6/8/2014 16:15	67711	15	159	4.881	123.7	17.4	6.537	120.5	12	7.939	117.8	9.79	29.16	27.98	27.04	-1.18	-2.113	45.95	16.35	622.7	885	0
6/8/2014 16:30	67712	15	159	4.817	123.6	17.81	6.556	118.7	15.03	7.964	112.8	12.82	29.51	28.32	27.32	-1.191	-2.189	44.78	16.27	627.9	884	0
6/8/2014 16:45	67713	15	159	4.724	124	15.88	6.538	120.4	12.1	7.791	120.6	12.77	29.53	28.54	27.68	-0.983	-1.845	44.43	16.16	473.5	884	0
6/8/2014 17:00	67714	15	159	4.509	134.7	12.78	6.093	128.8	9.33	7.148	125.2	7.913	29.56	28.62	27.71	-0.933	-1.841	44.01	16.04	477.8	884	0
6/8/2014 17:15	67715	15	159	4.797	127.6	15.03	6.828	123.6	11.67	8.11	119.4	10.77	29.35	28.55	27.75	-0.8	-1.596	44.9	16.16	351.2	884	0
6/8/2014 17:30	67716	15	159	5.192	137	12.2	7.158	132	8.79	8.69	127	6.043	28.98	28.56	27.88	-0.425	-1.101	45.1	15.9	161	884	0
6/8/2014 17:45	67717	15	159	5.036	131	12.08	7.204	124.7	8.3	9.23	122	4.792	28.47	28.3	27.75	-0.166	-0.715	46.46	15.9	38.19	884	0
6/8/2014 18:00	67718	15	159	4.504	131	12.91	6.675	125.9	8.17	8.62	122.4	6.329	28.3	28.25	27.8	-0.052	-0.497	46.93	15.91	11.35	883	0
6/8/2014 18:15	67719	15	159	5.245	124.1	12.05	7.781	119.4	7.833	10.1	115.7	6.509	28.19	28.17	27.74	-0.022	-0.453	47.13	15.88	3.844	883	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/8/2014 18:30	67720	15	159	6.314	103.2	13.22	9.17	100.8	11.21	12.11	98.3	9.55	27.9	27.9	27.5	-0.004	-0.401	48.12	15.94	2.297	883	0
6/8/2014 18:45	67721	15	159	5.783	48.95	33.58	8.82	48.05	29.83	12.92	52.36	25.2	24.39	24.73	24.68	0.34	0.285	67.47	17.8	1.966	884	5.334
6/8/2014 19:00	67722	15	159	4.625	336.2	46.07	6.817	337.6	39.57	8.55	348.6	32.67	20.09	20.15	20.46	0.06	0.363	81	16.72	27.43	886	12.7
6/8/2014 19:15	67723	15	159	3.062	127.4	13.09	4.597	113.7	17.67	6.466	89	18.09	19.27	19.82	20.84	0.543	1.567	92.1	17.98	27.92	886	2.54
6/8/2014 19:30	67724	15	159	6.373	170.4	11.86	9.03	162.1	9.22	12.1	154.8	9.12	19.71	20.19	20.54	0.479	0.831	86.3	17.38	1.997	886	0
6/8/2014 19:45	67725	15	159	6.526	152.5	15	9.72	147.3	11.64	13.81	144.3	9.85	18.27	18.51	18.78	0.241	0.505	86.4	15.97	1.889	885	0
6/8/2014 20:00	67726	15	159	6.121	126.8	15.21	8.88	121.1	11.93	12.58	117.4	9.47	19.32	19.56	19.59	0.237	0.268	89.7	17.6	1.94	885	0
6/8/2014 20:15	67727	15	159	7.139	121.5	11.69	10.42	116.1	7.435	13.97	112.3	4.474	19.3	19.54	19.42	0.242	0.118	87.7	17.22	2.016	886	0
6/8/2014 20:30	67728	15	159	5.565	127.4	11.96	8.16	122.6	8.46	11.69	118.3	5.57	19.17	19.39	19.36	0.228	0.192	88.1	17.17	1.798	886	0
6/8/2014 20:45	67729	15	159	5.327	134.6	11.81	7.74	130.1	8.08	11.15	127.5	5.485	19.98	20.28	20.37	0.299	0.389	85.8	17.54	1.802	886	0
6/8/2014 21:00	67730	15	159	5.045	143.7	12.64	7.489	138.7	8.79	10.97	135.6	5.633	20.88	21.21	21.3	0.33	0.421	85.7	18.41	1.804	886	0
6/8/2014 21:15	67731	15	159	4.633	150.3	12.18	6.845	144.4	8.15	10.02	141	5.743	21.3	21.64	21.64	0.334	0.335	85.3	18.76	1.62	886	0
6/8/2014 21:30	67732	15	159	4.783	152	12.18	6.982	146.8	8.5	10.08	141.7	5.61	21.54	21.87	21.82	0.327	0.273	84.8	18.89	1.548	886	0
6/8/2014 21:45	67733	15	159	5.484	150.4	12.61	8.18	145.8	8.25	10.88	141.5	6.403	21.66	21.98	21.84	0.322	0.187	83.2	18.7	1.609	886	0
6/8/2014 22:00	67734	15	159	5.271	155.3	12.39	7.534	149.4	8.4	10.12	145.6	5.78	21.6	21.93	21.81	0.336	0.209	82.2	18.45	1.67	886	0
6/8/2014 22:15	67735	15	159	5.244	155.3	12.09	7.635	149.9	7.743	10.29	145.1	6.054	21.59	21.91	21.78	0.319	0.193	81.2	18.25	1.655	886	0
6/8/2014 22:30	67736	15	159	4.991	164.5	11.91	7.373	157.3	8.44	10.06	151.9	6.792	21.48	21.82	21.69	0.348	0.218	81.2	18.14	1.572	886	0
6/8/2014 22:45	67737	15	159	5.201	169.9	11.83	7.358	163.3	8.1	10.04	158.5	6.379	21.4	21.71	21.57	0.313	0.169	81.5	18.12	1.645	886	0
6/8/2014 23:00	67738	15	159	4.367	194.8	15.14	6.267	188.9	12.95	8.84	180	11.69	21.13	21.44	21.3	0.318	0.176	83.2	18.17	1.258	886	0
6/8/2014 23:15	67739	15	159	3.987	203	10.93	5.757	198.5	6.99	8.28	193.7	4.884	20.85	21.13	21.06	0.28	0.211	85.4	18.32	1.423	886	0
6/8/2014 23:30	67740	15	159	3.261	205.4	10.76	4.772	200.8	6.976	7.236	195.3	4.452	20.7	20.97	20.92	0.273	0.222	86.6	18.41	1.174	886	0
6/8/2014 23:45	67741	15	159	2.6	204.9	9.76	3.838	202	6.684	6.041	197.1	4.194	20.49	20.8	20.81	0.314	0.324	88	18.45	1.025	886	0
6/9/2014 0:00	67742	15	160	3.469	205.1	9.99	4.945	199.9	6.389	7.519	195.4	3.903	20.49	20.76	20.81	0.277	0.319	87.8	18.41	1.239	885	0
6/9/2014 0:15	67743	15	160	4.117	196.4	10.25	5.927	192.3	6.856	8.57	190	4.802	20.51	20.78	20.76	0.274	0.255	87.3	18.34	1.341	885	0
6/9/2014 0:30	67744	15	160	3.929	202.5	10.23	5.623	198.1	7.374	8.04	195.2	5.503	20.42	20.68	20.59	0.26	0.169	87.5	18.29	1.323	885	0
6/9/2014 0:45	67745	15	160	3.495	210.9	22.07	4.971	206.4	18.8	7.101	199.2	12.52	20.21	20.45	20.3	0.234	0.088	88.7	18.31	1.122	885	0
6/9/2014 1:00	67746	15	160	3.227	204.2	13.1	4.695	200.1	8.82	6.479	194.1	7.354	19.99	20.2	20.07	0.215	0.079	90.5	18.4	1.125	885	0
6/9/2014 1:15	67747	15	160	3.171	190.9	11.66	4.632	186	9.09	6.544	182.3	6.327	19.94	20.16	20.02	0.217	0.077	91	18.44	1.094	884	0
6/9/2014 1:30	67748	15	160	3.126	198	10.94	4.548	193	7.661	6.423	188.1	5.929	19.88	20.09	19.91	0.214	0.032	91.3	18.43	1.033	884	0
6/9/2014 1:45	67749	15	160	3.594	194.1	9.66	5.144	190.7	6.333	6.814	187	5.291	19.81	20.02	19.82	0.209	0.003	91.9	18.48	1.201	884	0
6/9/2014 2:00	67750	15	160	3.741	191.8	9.45	5.476	188	6.187	7.364	187.2	4.293	19.69	19.9	19.73	0.214	0.04	92.6	18.47	1.204	884	0
6/9/2014 2:15	67751	15	160	3.435	197.5	10.66	5.004	193.2	7.028	7.198	189.8	4.62	19.61	19.79	19.63	0.179	0.024	93.1	18.49	1.245	884	0
6/9/2014 2:30	67752	15	160	1.727	189.8	14.8	2.685	187.8	11.32	4.452	187	6.695	19.43	19.67	19.53	0.248	0.109	93.5	18.37	0.917	884	0
6/9/2014 2:45	67753	15	160	1.51	174.5	10.13	2.57	172.5	6.093	4.178	177.9	4.233	19.15	19.5	19.51	0.356	0.363	94.5	18.27	0.814	884	0
6/9/2014 3:00	67754	15	160	0.872	112.6	45.62	1.42	133.7	31.37	2.656	166.3	13.37	18.84	19.36	19.47	0.526	0.627	95.1	18.06	0.711	884	0
6/9/2014 3:15	67755	15	160	0.99	41.58	26.57	1.58	53.08	18.26	1.28	144.1	19.54	18.49	19.31	19.52	0.819	1.028	96.4	17.92	0.506	885	0
6/9/2014 3:30	67756	15	160	3.464	54.19	15.73	5.625	49.36	11.06	6.767	74.46	37.07	18.53	19.18	19.42	0.645	0.889	97.3	18.12	1.171	885	0
6/9/2014 3:45	67757	15	160	4.892	50.5	13.19	7.405	45.87	9.13	10.14	42.42	6.008	19.63	19.75	19.75	0.128	0.124	94.3	18.69	1.604	886	0
6/9/2014 4:00	67758	15	160	6.305	56.44	14.31	9.35	52.85	9.89	12.81	49.97	6.346	18.16	18.27	18.08	0.103	-0.08	85.3	15.67	1.864	887	0
6/9/2014 4:15	67759	15	160	7.2	58.75	11.8	10.74	54.29	7.285	14.43	52.03	4.946	15.95	15.95	15.62	0.003	-0.323	82	12.9	1.981	887	0
6/9/2014 4:30	67760	15	160	7.416	53.59	12.68	10.96	49.2	7.565	14.67	47.02	5.212	15.76	15.75	15.41	-0.01	-0.355	81.1	12.54	2.034	887	0
6/9/2014 4:45	67761	15	160	7.071	60.95	11.86	10.08	57.29	7.465	13.78	54.74	5.057	15.48	15.51	15.19	0.024	-0.29	81.8	12.4	2.397	887	0
6/9/2014 5:00	67762	15	160	5.635	54.41	13.79	8.35	50.63	9.35	11.42	49.29	6.853	15.48	15.53	15.24	0.043	-0.24	82.5	12.54	7.557	888	0
6/9/2014 5:15	67763	15	160	5.345	45.11	13.45	8.05	41.66	8.16	11.2	38.47	4.993	15.61	15.59	15.26	-0.024	-0.352	81.9	12.54	23.7	888	0
6/9/2014 5:30	67764	15	160	5.09	49.88	12.66	7.488	46.12	8.31	10.19	43.01	6.183	15.86	15.79	15.42	-0.069	-0.436	80.6	12.55	29.74	889	0
6/9/2014 5:45	67765	15	160	5.045	45.06	12.41	7.594	40.82	7.855	10.06	37.64	5.351	16.05	15.98	15.59	-0.07	-0.457	78.89	12.4	52.96	889	0
6/9/2014 6:00	67766	15	160	4.701	39.84	13.81	7.298	36.31	9.07	10.01	32.96	6.371	16.31	16.24	15.84	-0.075	-0.471	77.35	12.35	53.62	890	0
6/9/2014 6:15	67767	15	160	4.933	36.72	15	7.47	32.13	8.27	10.2	29.54	5.566	16.47	16.41	16.03	-0.06	-0.445	75.32	12.1	60.1	890	0
6/9/2014 6:30	67768	15	160	4.427	36.42	13	6.62	32.24	8.04	8.62	29.57	5.665	16.71	16.59	16.15	-0.119	-0.556	74.29	12.13	125.4	890	0
6/9/2014 6:45	67769	15	160	5.22	35.54	13.92	8.07	31.62	8.14	10.47	29.5	5.417	16.99	16.83	16.37	-0.154	-0.614	72.36	11.99	165	890	0
6/9/2014 7:00	67770	15	160	4.996	37.17	14.63	7.852	33.76	8.42	10.15	31.66	5.84	17.3	17.11	16.62	-0.184	-0.677	70.06	11.8	195.8	890	0
6/9/2014 7:30	67772	15	160	4.591	6.406	18.88	7	4.629	14.48	9.03	2.108	12.91	17.76	17.51	16.95	-0.245	-0.81	66.43	11.43	292.2	891	0
6/9/2014 7:45	67773	15	160	4.796	5.718	18.57	6.945	2.922	12.59	8.75	0.472	12.47	18.06	17.72	17.08	-0.34	-0.982	64.05	11.18	408	891	0
6/9/2014 8:00	67774	15	160	4.445	8.29	18.98	6.384	5.851	16.26	7.64	3.474	11.12	19.07	18.37	17.59	-0.697	-1.477	60.3	11.22	761	891	0
6/9/2014 8:15	67775	15	160	4.53	9.35	21.04	6.524	6.148	14.81	7.743	2.845	13.51	19.27	18.46	17.68	-0.811	-1.59	57.76	10.76	805	891	0
6/9/2014 8:30	67776	15	160	3.945	19.93	17.24	5.67	14.54	12.42	6.732	10.71	8.28	19.45	18.55	17.77	-0.904	-1.687	56.43	10.58	833	892	0
6/9/2014 8:45	67777	15	160	3.662	11.44	18.38	5.143	7.853	15.22	6.134	4.161	11.22	19.85	19	18.19	-0.854	-1.662	55.05	10.58	871	892	0
6/9/2014 9:00	67778	15	160	3.315	10.83	19.3	4.542	6.464	15.23	5.697	5.958	14.15	20.41	19.38	18.59	-1.037	-1.822	52.58	10.41	947	892	0
6/9/2014 9:15	67779	15	160	3.352	9.62	23.44	4.516	6.189	17.66	5.57	4.905	15.24	20.96	19.93	18.99	-1.03	-1.975	50.88	10.43	1025	892	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/9/2014 9:30	67780	15	160	4.004	8.81	18.8	5.367	6.774	14.35	6.234	4.605	12.62	21.38	20.26	19.4	-1.123	-1.976	48.29	10.03	1122	892	0
6/9/2014 9:45	67781	15	160	3.603	0.591	21.16	5.051	358.9	15.94	5.99	354.5	15.49	21.86	20.72	19.83	-1.141	-2.028	47.74	10.29	1056	892	0
6/9/2014 10:00	67782	15	160	3.167	13.18	25.43	4.382	11.96	20.36	5.177	8.33	18.49	22.01	20.86	19.97	-1.15	-2.044	46.71	10.11	1100	891	0
6/9/2014 10:15	67783	15	160	3.596	350.3	23.39	4.845	346.3	19.99	5.672	343.8	16.86	22.42	21.33	20.42	-1.097	-2	45.74	10.17	1135	891	0
6/9/2014 10:30	67784	15	160	3.209	13.73	26.65	4.459	6.366	20.3	5.284	1.871	14.54	22.75	21.62	20.74	-1.134	-2.013	43.54	9.73	1168	891	0
6/9/2014 10:45	67785	15	160	3.706	4.852	20.87	5.071	2.25	18.41	5.935	357.2	18.92	23.21	21.95	21.08	-1.261	-2.132	42.21	9.68	1194	891	0
6/9/2014 11:00	67786	15	160	2.968	19.15	27.4	4.171	12.58	24.76	5.167	6.462	22.39	23.35	22.14	21.41	-1.218	-1.946	40.48	9.18	1217	891	0
6/9/2014 11:15	67787	15	160	2.909	12.44	29.47	3.94	9.68	23.95	4.669	5.313	20.29	23.8	22.63	21.71	-1.164	-2.086	38.6	8.88	1236	891	0
6/9/2014 11:30	67788	15	160	3.187	5.037	23.7	4.449	2.032	20.38	5.045	4.784	19.1	24.07	22.73	21.93	-1.345	-2.142	37.1	8.54	1249	891	0
6/9/2014 11:45	67789	15	160	2.851	6.84	39.68	3.928	4.319	33.07	4.856	357.9	29.04	24.19	22.98	22.17	-1.206	-2.014	35.8	8.11	1258	891	0
6/9/2014 12:00	67790	15	160	2.629	344.8	27.15	3.543	345.8	25.78	4.392	343.9	22.41	24.4	23.24	22.45	-1.163	-1.949	35.33	8.1	1262	891	0
6/9/2014 12:15	67791	15	160	2.584	5.724	41.82	3.388	0.304	31.87	4.026	1.704	23.27	24.54	23.48	22.58	-1.059	-1.952	34.17	7.731	1264	890	0
6/9/2014 12:30	67792	15	160	2.606	349	34.28	3.29	345.6	30.72	3.954	349.2	27.36	24.77	23.81	22.98	-0.96	-1.79	33.77	7.762	1259	890	0
6/9/2014 12:45	67793	15	160	2.88	11.96	37.78	3.799	7.618	31.19	4.545	3.797	23.36	25.07	23.87	23.1	-1.202	-1.972	32.43	7.436	1248	890	0
6/9/2014 13:00	67794	15	160	2.531	13.4	32.08	3.482	10.93	24.66	4.213	4.324	22.56	25.51	24.25	23.42	-1.255	-2.095	31.55	7.405	1233	890	0
6/9/2014 13:15	67795	15	160	3.598	332.5	29.3	4.315	330.4	25.68	4.991	326.2	21	25.81	24.57	23.7	-1.237	-2.115	29.79	6.838	1221	890	0
6/9/2014 13:30	67796	15	160	3.209	325.2	22.61	3.821	324.8	21.62	4.354	321.3	19.94	25.83	24.65	23.8	-1.181	-2.029	29.27	6.599	1195	890	0
6/9/2014 13:45	67797	15	160	2.118	335.4	42.6	2.647	333	42.29	3.038	345.5	41.1	25.97	24.99	24.32	-0.979	-1.652	29.29	6.729	1169	889	0
6/9/2014 14:00	67798	15	160	3.08	359	29.1	4.132	357.2	26.57	5.029	355.4	25.18	26.76	25.57	24.66	-1.195	-2.101	28.4	6.957	1133	889	0
6/9/2014 14:15	67799	15	160	2.84	21.21	27.69	3.619	16.52	21.54	4.163	11.1	18.56	26.4	25.3	24.48	-1.099	-1.915	27.36	6.107	1103	889	0
6/9/2014 14:30	67800	15	160	3.127	343.5	38.98	4.099	340.4	29.26	5.152	339.1	26.46	26.9	25.83	24.95	-1.078	-1.95	26.27	5.938	1062	889	0
6/9/2014 14:45	67801	15	160	2.447	354	44.18	3.116	348.2	33.14	3.808	344.6	24.81	26.74	25.71	24.97	-1.025	-1.767	25.26	5.241	1028	889	0
6/9/2014 15:00	67802	15	160	3.121	357.8	29.63	4.303	356.7	24.03	5.095	352.7	22.96	27.27	26.18	25.35	-1.095	-1.921	24.41	5.191	983	889	0
6/9/2014 15:15	67803	15	160	2.88	349.3	27.61	3.735	345.2	21.83	4.275	339.6	21.72	27.01	26.03	25.29	-0.982	-1.723	24.62	5.103	931	889	0
6/9/2014 15:30	67804	15	160	2.301	338.7	51.59	2.938	340.9	40.78	3.483	347.1	26.82	27.08	26.39	25.62	-0.687	-1.456	24.35	4.997	876	888	0
6/9/2014 15:45	67805	15	160	2.769	15	31.1	3.693	12.33	26.26	4.358	10.15	16.54	27.49	26.54	25.67	-0.949	-1.823	23.07	4.58	815	888	0
6/9/2014 16:00	67806	15	160	1.709	345.1	82.7	2.119	340.8	70.09	2.42	344.5	52.99	27.26	26.63	26.03	-0.621	-1.227	22.9	4.269	764.1	888	0
6/9/2014 16:15	67807	15	160	2.778	335.9	26.57	3.599	333.2	22.81	4.388	331.8	15.76	27.72	26.93	26.27	-0.784	-1.451	22.09	4.144	701.5	888	0
6/9/2014 16:30	67808	15	160	2.39	344.4	25.59	3.167	345.5	19.3	3.399	345.6	18.48	27.56	26.89	26.31	-0.669	-1.255	21.96	3.933	635.1	888	0
6/9/2014 16:45	67809	15	160	2.393	26.86	25.5	3.198	20.16	20.52	3.879	19.51	16.36	27.69	27	26.38	-0.688	-1.308	21.57	3.779	569.5	888	0
6/9/2014 17:00	67810	15	160	1.871	23.36	39.49	2.366	19.8	34.66	2.938	23.38	22.78	27.75	27.17	26.52	-0.576	-1.222	20.52	3.113	502.4	888	0
6/9/2014 17:15	67811	15	160	1.687	17.16	35.38	2.253	10.97	38.43	2.61	356.6	38.76	27.56	27.13	26.6	-0.43	-0.965	20.46	2.923	434.5	888	0
6/9/2014 17:30	67812	15	160	2.188	50.46	35.4	2.895	46.9	25.22	3.604	45.29	17.62	27.56	27.17	26.63	-0.399	-0.933	20.78	3.143	363.2	888	0
6/9/2014 17:45	67813	15	160	2.348	50.72	20.84	3.252	46.98	15.83	3.917	44.52	15.23	27.54	27.19	26.63	-0.355	-0.909	21.2	3.413	294.4	888	0
6/9/2014 18:00	67814	15	160	2.173	65.9	17.53	2.933	62.22	13.92	3.568	60.64	8.85	27.35	27.11	26.62	-0.237	-0.733	21.99	3.777	227.7	888	0
6/9/2014 18:15	67815	15	160	2.41	59.02	14.46	3.42	53.44	10.79	4.163	47.3	8.24	27	26.93	26.49	-0.062	-0.505	22.42	3.75	163.5	888	0
6/9/2014 18:30	67816	15	160	2.761	75.73	12.41	3.907	72.17	10.01	5.028	68.6	7.941	26.54	26.62	26.28	0.085	-0.26	22.82	3.624	104.5	888	0
6/9/2014 18:45	67817	15	160	2.183	62.87	10.81	3.55	58.65	6.916	4.977	54.41	4.388	25.76	26.14	26.06	0.385	0.305	23.88	3.604	53.49	888	0
6/9/2014 19:00	67818	15	160	1.807	59.69	10.83	3.374	55.79	6.63	5.112	53.39	5.166	24.51	25.37	25.75	0.863	1.241	27.23	4.398	18.41	888	0
6/9/2014 19:15	67819	15	160	1.456	66.93	11.56	3.145	62.01	5.832	5.548	57.05	1.537	23.04	24.46	25.61	1.417	2.564	32.08	5.5	3.966	888	0
6/9/2014 19:30	67820	15	160	1.526	84.8	10.45	3.501	76.12	7.885	5.604	65.79	4.026	21.99	24.4	25.61	2.41	3.616	35.02	5.854	1.101	888	0
6/9/2014 19:45	67821	15	160	1.734	88.2	11.05	4.048	86	5.168	5.824	78.33	2.653	21.44	24.14	25.44	2.705	3.996	37.61	6.391	0.911	889	0
6/9/2014 20:00	67822	15	160	2.074	78.07	7.998	4.484	79.12	3.222	6.04	76.28	2.902	21.67	23.67	25.41	2.004	3.743	35.97	5.96	0.997	889	0
6/9/2014 20:15	67823	15	160	1.998	90.7	9.81	4.133	90.4	5.029	6.565	87.5	1.98	21.31	22.78	25.06	1.477	3.757	37.3	6.152	1.017	889	0
6/9/2014 20:30	67824	15	160	2.251	93.5	8.56	4.165	92.8	4.508	7.501	96.7	2.263	21.3	22.4	24.67	1.108	3.379	37.57	6.255	1.233	889	0
6/9/2014 20:45	67825	15	160	2.2	94.2	8.81	4.035	93.1	4.664	7.838	94.6	1.138	21.21	22.12	24.67	0.904	3.457	37.8	6.269	1.224	890	0
6/9/2014 21:00	67826	15	160	2.13	90.8	10.2	3.83	91.7	5.904	7.684	92.3	3.132	20.65	21.5	24.47	0.853	3.826	40.74	6.851	1.022	890	0
6/9/2014 21:15	67827	15	160	2.401	84.3	9.32	4.347	85.2	5.388	8.18	87.1	1.057	20.37	21.22	24.09	0.856	3.721	42.39	7.183	1.216	890	0
6/9/2014 21:30	67828	15	160	3.165	78.37	8.8	5.229	78.83	5.077	9.48	86.3	1.17	20.35	21.03	23.77	0.68	3.412	41.87	6.989	1.355	890	0
6/9/2014 21:45	67829	15	160	3.28	87.7	11.06	5.235	84	7.639	9.74	83.2	2.455	20.71	21.17	22.54	0.466	1.828	38.85	6.216	1.363	890	0
6/9/2014 22:00	67830	15	160	3.61	92.2	11.09	5.552	88.1	7.202	9.65	86.1	2.971	20.8	21.19	21.84	0.395	1.036	36.83	5.528	1.411	890	0
6/9/2014 22:15	67831	15	160	3.632	89.6	10.18	5.337	88	6.652	9.26	87.9	2.829	20.51	20.86	21.49	0.342	0.98	36.51	5.15	1.31	890	0
6/9/2014 22:30	67832	15	160	3.248	88.7	10.08	5.074	87.3	6.995	9.16	88.4	2.85	20.1	20.48	21.27	0.388	1.176	37.71	5.242	1.4	890	0
6/9/2014 22:45	67833	15	160	3.157	90	10.99	4.83	88	7.305	8.73	87.7	3.797	19.88	20.28	21.07	0.408	1.197	37.96	5.143	1.307	890	0
6/9/2014 23:00	67834	15	160	2.877	94.5	11.68	4.504	91.6	7.781	8.48	90.4	3.664	19.5	19.92	20.66	0.42	1.161	39.42	5.348	1.457	891	0
6/9/2014 23:15	67835	15	160	3.246	88.4	11.32	5.092	86.8	7.037	9.4	86.8	2.627	19.42	19.82	20.76	0.396	1.335	39.26	5.224	1.268	891	0
6/9/2014 23:30	67836	15	160	3.93	85.6	10.38	5.747	83.5	6.767	9.59	80.8	4.207	19.41	19.73	20.19	0.316	0.779	38.18	4.812	1.263	891	0
6/9/2014 23:45	67837	15	160	4.783	81.8	10.93	6.692	77.79	7.726	9.66	75.8	4.727	19.05	19.25	19.23	0.197	0.174	37.73	4.323	1.555	891	0
6/10/2014 0:00	67838	15	161	5.087	81.6	11.01	7.202	78.55	7.834	10.52	75.97	4.254	18.49	18.63	18.56	0.146	0.07	39.9	4.615	1.471	891	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/10/2014 0:15	67839	15	161	5.123	81.7	10.17	7.242	78.68	7.347	10.46	77.3	4.573	18.2	18.35	18.31	0.143	0.109	41.53	4.934	1.378	891	0
6/10/2014 0:30	67840	15	161	4.681	76.79	10.86	6.761	72.93	7.166	9.79	72.75	4.309	17.84	17.99	17.93	0.148	0.096	43.32	5.21	1.431	891	0
6/10/2014 0:45	67841	15	161	4.388	76.02	10.31	6.206	72.75	7.528	9.21	71.48	4.66	17.52	17.65	17.6	0.134	0.082	45.49	5.625	1.322	891	0
6/10/2014 1:00	67842	15	161	4.62	73.22	10.18	6.542	71.16	7.152	9.35	70.35	4.707	17.2	17.31	17.19	0.113	-0.009	47.98	6.1	1.371	891	0
6/10/2014 1:15	67843	15	161	4.523	74.89	11.15	6.509	71.96	7.32	9.33	69.83	4.625	16.87	16.97	16.85	0.106	-0.021	51.38	6.792	1.473	891	0
6/10/2014 1:30	67844	15	161	4.353	76.94	10.52	6.244	72.72	7.446	9.05	70.24	4.591	16.59	16.7	16.6	0.11	0.008	53.37	7.086	1.274	891	0
6/10/2014 1:45	67845	15	161	4.065	78.51	11.25	5.905	75.78	7.333	8.9	72.77	4.339	16.37	16.48	16.43	0.115	0.061	54.65	7.227	1.33	891	0
6/10/2014 2:00	67846	15	161	3.993	74.44	11.43	5.754	71.37	7.496	8.87	69.98	4.588	16.21	16.33	16.31	0.118	0.104	55.52	7.314	1.39	891	0
6/10/2014 2:15	67847	15	161	3.66	73.59	10.93	5.308	70.51	7.411	8.15	69.34	4.188	16.11	16.25	16.26	0.135	0.146	56.4	7.45	1.291	891	0
6/10/2014 2:30	67848	15	161	3.253	76.85	11.28	4.808	73.03	7.304	7.533	69.94	4.314	15.83	15.99	16.04	0.168	0.214	58.03	7.601	1.173	891	0
6/10/2014 2:45	67849	15	161	3.26	81.5	10.83	4.788	77.42	7.199	7.6	71.9	3.939	15.62	15.77	15.84	0.149	0.216	59.58	7.794	1.093	891	0
6/10/2014 3:00	67850	15	161	2.999	78.77	11.09	4.586	74.86	7.497	7.706	70.98	3.759	15.39	15.54	15.68	0.16	0.3	61.08	7.936	1.206	891	0
6/10/2014 3:15	67851	15	161	2.966	79.27	11.23	4.372	75.37	7.615	7.519	72.2	4.163	15.31	15.46	15.61	0.142	0.3	61.75	8.03	1.289	891	0
6/10/2014 3:30	67852	15	161	3.192	73.86	11.15	4.641	70.46	7.495	7.866	69.4	4.071	15.22	15.36	15.53	0.146	0.317	62.97	8.23	1.177	891	0
6/10/2014 3:45	67853	15	161	2.784	71.1	10.91	4.3	68.67	7.944	7.461	68.08	3.732	15.09	15.26	15.45	0.176	0.358	63.85	8.31	1.189	891	0
6/10/2014 4:00	67854	15	161	2.82	70	10.48	4.367	67.9	6.81	7.462	67.45	3.101	14.94	15.15	15.44	0.211	0.507	64.28	8.26	1.139	892	0
6/10/2014 4:15	67855	15	161	2.628	70.96	11.07	4.24	68.18	6.58	7.49	68.2	2.643	14.75	15	15.4	0.246	0.648	64.98	8.25	1.247	892	0
6/10/2014 4:30	67856	15	161	2.798	67.81	10.19	4.453	64.87	5.795	7.626	65.66	2.1	14.67	14.91	15.39	0.249	0.725	65.07	8.19	1.284	892	0
6/10/2014 4:45	67857	15	161	2.619	65.46	10.23	4.356	63.38	5.812	7.624	64.28	1.753	14.42	14.71	15.38	0.296	0.964	66.12	8.19	2.124	892	0
6/10/2014 5:00	67858	15	161	2.599	61.93	10.42	4.27	60.7	6.074	7.775	63.14	1.861	14.34	14.61	15.36	0.264	1.019	66.81	8.27	8.53	892	0
6/10/2014 5:15	67859	15	161	2.439	62.87	11.15	3.936	61.68	6.502	7.376	62.64	1.847	14.5	14.72	15.42	0.221	0.917	66.38	8.32	30.92	892	0
6/10/2014 5:30	67860	15	161	1.396	55.49	17.59	2.457	55.78	10.8	5.639	62.29	3.875	14.89	14.95	15.27	0.069	0.381	65.08	8.4	71.56	892	0
6/10/2014 5:45	67861	15	161	0.911	297.6	53.65	1.155	307.3	63.04	1.941	33.94	47.9	15.5	15.38	15.15	-0.129	-0.356	63.36	8.59	123.1	892	0
6/10/2014 6:00	67862	15	161	1.168	354.4	31.89	1.631	0.6	25.25	2.204	24.83	18.38	16.16	15.93	15.54	-0.226	-0.622	59.69	8.33	182	892	0
6/10/2014 6:15	67863	15	161	1.133	0.092	23.9	1.522	359	20.05	1.964	10.46	21.02	16.54	16.17	15.68	-0.369	-0.858	58.38	8.35	246.2	892	0
6/10/2014 6:30	67864	15	161	1.406	15.43	28.55	1.993	15.25	22.24	2.403	22.54	14.73	16.89	16.4	15.89	-0.491	-1.001	57.85	8.55	311.4	892	0
6/10/2014 6:45	67865	15	161	1.914	46.46	18.19	2.578	40.94	13.61	3.002	35.5	10.19	17.68	17.11	16.53	-0.57	-1.148	52.76	7.924	378.7	893	0
6/10/2014 7:00	67866	15	161	1.208	26.02	26.75	1.615	28.52	18.16	1.843	28.41	13.46	18.01	17.47	16.99	-0.542	-1.021	51.01	7.74	444.4	893	0
6/10/2014 7:15	67867	15	161	1.104	43.62	31.59	1.365	45.93	22.89	1.625	47.36	15.97	18.47	18.01	17.47	-0.466	-1.005	48.9	7.548	509.6	893	0
6/10/2014 7:30	67868	15	161	1.099	44.4	53.72	1.269	29.55	36.99	1.292	19.38	33.48	19.07	18.63	18.14	-0.444	-0.932	47.66	7.717	573.1	893	0
6/10/2014 7:45	67869	15	161	1.04	111	57.29	1.118	90.9	48.93	1.51	53.25	27.21	19.59	19.08	18.61	-0.512	-0.987	44.99	7.348	637.1	893	0
6/10/2014 8:00	67870	15	161	0.832	87.7	56.87	0.921	79.15	39.26	0.962	65.71	45.83	20.2	19.78	19.31	-0.414	-0.89	41.79	6.818	701.8	893	0
6/10/2014 8:15	67871	15	161	0.802	296.1	64.14	0.976	283.6	60.36	1.07	285.4	58.83	20.77	20.45	19.92	-0.315	-0.851	40.71	6.948	757.3	893	0
6/10/2014 8:30	67872	15	161	1.369	270.3	37.75	1.642	264.8	31.55	1.75	259.9	30.33	21.17	20.79	20.14	-0.382	-1.027	39.06	6.71	815	893	0
6/10/2014 8:45	67873	15	161	1.709	231.8	38.9	2.141	220.8	33.59	2.307	211.9	27.34	21.8	20.99	20.32	-0.806	-1.48	37.97	6.856	874	893	0
6/10/2014 9:00	67874	15	161	2.17	218.6	28.74	2.546	215.6	21.09	2.753	210.6	15.84	22.06	21.1	20.43	-0.966	-1.635	37.1	6.753	907	893	0
6/10/2014 9:15	67875	15	161	1.853	224.5	31.33	2.254	216.1	22.61	2.664	211.4	26.1	22.05	21.27	20.64	-0.778	-1.408	37.55	6.92	972	892	0
6/10/2014 9:30	67876	15	161	2.288	214.1	24.73	2.753	209.4	23.25	3.233	201.2	15.91	22.76	21.76	20.99	-1.001	-1.77	36.93	7.305	1021	892	0
6/10/2014 9:45	67877	15	161	2.465	188.6	40.23	3.008	179.3	30.14	3.856	179.3	19.86	23.41	22.4	21.59	-1.001	-1.816	35.04	7.106	1066	892	0
6/10/2014 10:00	67878	15	161	3.274	209.5	20.46	4.141	200.9	17.73	4.785	195.8	15.65	24.31	22.92	22.06	-1.385	-2.242	31.49	6.329	1106	892	0
6/10/2014 10:15	67879	15	161	3.632	205.1	22.05	4.536	199.6	17.64	5.254	193.1	13.11	24.72	23.33	22.52	-1.389	-2.203	29.82	5.916	1141	892	0
6/10/2014 10:30	67880	15	161	3.493	203.5	26.64	4.484	197.4	20.59	5.099	187.4	14.1	25.01	23.55	22.71	-1.46	-2.297	30.01	6.256	1171	892	0
6/10/2014 10:45	67881	15	161	3.63	174.9	22.58	4.617	169.2	19.38	5.234	170.1	16.29	25.57	23.99	23.1	-1.575	-2.467	30	6.73	1199	892	0
6/10/2014 11:00	67882	15	161	3.265	182.2	18.82	3.984	178.2	14.4	4.502	175.2	13.83	25.65	24.21	23.54	-1.434	-2.104	30.35	6.966	1221	891	0
6/10/2014 11:15	67883	15	161	3.343	187	30.05	4.226	183.5	27.94	5.117	181	23.39	26.41	24.89	23.82	-1.515	-2.592	30.12	7.513	1238	891	0
6/10/2014 11:30	67884	15	161	3.362	197.1	26.23	4.226	190.3	23.1	5.014	178.8	18.88	26.9	25.25	24.37	-1.648	-2.524	29.35	7.556	1254	891	0
6/10/2014 11:45	67885	15	161	3.371	184.9	24.27	4.151	178.9	20.53	4.835	173.4	17.46	27.49	25.97	24.99	-1.522	-2.502	28.77	7.776	1262	891	0
6/10/2014 12:00	67886	15	161	3.445	182	26.88	4.39	176.8	23.62	4.98	174	21.63	27.66	26.24	25.45	-1.418	-2.204	28.4	7.721	1264	891	0
6/10/2014 12:15	67887	15	161	3.303	164.1	21.25	4.251	161.4	18.15	4.956	160.7	16.13	28.23	26.7	25.8	-1.529	-2.431	27.2	7.583	1261	890	0
6/10/2014 12:30	67888	15	161	3.768	188.3	22.57	4.667	183.7	17.5	5.564	178.6	11.52	28.56	27.08	26.1	-1.477	-2.461	26.32	7.382	1259	890	0
6/10/2014 12:45	67889	15	161	3.857	170.1	22.84	4.834	164.4	19.42	5.527	160.7	14.81	28.9	27.33	26.24	-1.569	-2.661	25.41	7.156	1250	890	0
6/10/2014 13:00	67890	15	161	3.131	174.6	18.03	3.932	169.3	16.83	4.644	167.2	17.51	29.13	27.76	26.86	-1.361	-2.266	24.77	6.972	1236	890	0
6/10/2014 13:15	67891	15	161	3.213	168.7	26.3	4.044	165.2	23.45	4.905	163.2	16.88	29.13	27.87	27.07	-1.258	-2.059	24.35	6.725	1216	889	0
6/10/2014 13:30	67892	15	161	3.32	152.2	26.86	4.292	147.3	26.27	4.683	150.4	22.43	29.74	28.25	27.28	-1.489	-2.457	23.94	6.992	1193	889	0
6/10/2014 13:45	67893	15	161	2.846	181.5	31.44	3.561	177	31.38	4.345	179.4	25.81	30.03	28.87	27.94	-1.16	-2.091	23.61	7.033	1170	889	0
6/10/2014 14:00	67894	15	161	2.87	205.9	23.81	3.502	199.3	17.62	4.16	195.5	20.59	30.11	28.97	28.23	-1.145	-1.884	23.12	6.8	1134	889	0
6/10/2014 14:15	67895	15	161	2.735	217.5	30.68	3.262	210.4	26.34	3.607	203.7	18.58	30.02	29.02	28.31	-0.998	-1.714	22.97	6.627	1102	889	0
6/10/2014 14:30	67896	15	161	2.574	227.6	30.46	3.147	223.8	28.71	3.7	205.4	15.65	30.04	29.23	28.54	-0.814	-1.508	22.73	6.492	1057	888	0
6/10/2014 14:45	67897	15	161	2.611	239	31.62	3.016	232	28.57	3.699	218.1	18.83	30.21	29.52	28.82	-0.691	-1.393	22.34	6.383	1023	888	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/10/2014 15:00	67898	15	161	2.575	206	35.35	3.091	199	35.63	3.548	190.7	28.12	30.73	29.89	29.12	-0.835	-1.602	22.05	6.618	977	888	0
6/10/2014 15:15	67899	15	161	2.155	179.7	28.42	2.675	173.4	25.1	3.054	176.9	23.1	30.77	30.05	29.3	-0.719	-1.47	22.05	6.658	923	888	0
6/10/2014 15:30	67900	15	161	2.474	211.6	32.67	2.938	211.5	30.52	3.299	204.7	22.8	30.78	30.06	29.41	-0.715	-1.364	21.72	6.446	871	888	0
6/10/2014 15:45	67901	15	161	2.515	221	27.41	3.003	216.4	25.61	3.372	205.2	19.33	31.06	30.36	29.64	-0.694	-1.415	21.65	6.627	813	887	0
6/10/2014 16:00	67902	15	161	1.664	222	38.32	2.019	204.1	32.3	2.28	196	29.88	30.76	30.42	29.73	-0.341	-1.033	21.56	6.324	759	887	0
6/10/2014 16:15	67903	15	161	2.129	196.2	31.97	2.661	191.8	32.26	2.984	188	27.35	31.41	30.78	29.96	-0.635	-1.446	21.65	6.921	697.3	887	0
6/10/2014 16:30	67904	15	161	1.278	237.7	34.88	1.59	239.6	36.69	1.952	222.4	35.87	31.35	31.05	30.44	-0.3	-0.918	20.61	6.157	640.9	887	0
6/10/2014 16:45	67905	15	161	1.802	161	20.17	2.251	157.9	20.05	2.664	157.9	16.3	31.42	30.96	30.29	-0.464	-1.126	20.73	6.299	569.8	887	0
6/10/2014 17:00	67906	15	161	1.721	152.7	35.51	2.175	153.6	35.35	2.473	160.1	29.63	31.44	31.06	30.51	-0.388	-0.931	20.39	6.078	503.2	887	0
6/10/2014 17:15	67907	15	161	1.384	181.8	41.28	1.7	180.8	38.46	2.065	171.4	20.24	31.38	31.15	30.64	-0.233	-0.74	19.96	5.715	434.2	887	0
6/10/2014 17:30	67908	15	161	1.809	158.6	43.23	2.303	153.5	24.75	2.615	151.4	17.17	31.45	31.21	30.71	-0.241	-0.742	19.96	5.767	364.3	887	0
6/10/2014 17:45	67909	15	161	2.187	148.9	21.13	2.984	144.2	18.24	3.639	142.9	15.8	31.31	31.24	30.75	-0.073	-0.559	20.25	5.861	246.1	887	0
6/10/2014 18:00	67910	15	161	2.009	152.4	12.54	3.012	146.4	9.06	3.538	142.7	6.941	30.91	31.11	30.7	0.196	-0.21	20.08	5.413	163.2	887	0
6/10/2014 18:15	67911	15	161	1.728	142.6	12.33	2.626	139	10.33	3.425	137.1	9.46	30.7	31.02	30.71	0.316	0.007	20.93	5.839	149.4	887	0
6/10/2014 18:30	67912	15	161	1.611	127.8	12.23	2.965	127.3	6.209	4.128	127.1	3.798	29.73	30.71	30.7	0.985	0.978	22.96	6.358	55.88	887	0
6/10/2014 18:45	67913	15	161	1.331	112.1	8.12	2.979	116.5	2.926	4.359	115.3	4.002	28.05	30.15	30.69	2.102	2.647	28.1	7.881	39.6	887	0
6/10/2014 19:00	67914	15	161	1.528	99.8	8.3	3.755	109.8	3.087	5.059	115.8	2.901	26.95	29.72	30.71	2.773	3.757	31.09	8.45	16.11	886	0
6/10/2014 19:15	67915	15	161	1.731	109.4	8.56	4.034	110.1	2.991	6.198	115.8	1.774	26.57	28.64	30.61	2.072	4.045	31.02	8.08	3.949	886	0
6/10/2014 19:30	67916	15	161	2.14	103.3	10.03	4.383	103.7	5.373	6.787	110.3	2.995	26.64	28.21	30.61	1.575	3.971	29.6	7.453	1.332	886	0
6/10/2014 19:45	67917	15	161	2.426	112.2	10.72	4.616	109.2	5.348	7.735	112.3	1.424	26.77	28.05	30.6	1.288	3.833	27.9	6.701	1.098	886	0
6/10/2014 20:00	67918	15	161	2.666	114.1	11.51	4.741	109	7.125	8.63	111	3.252	27.04	28.01	30.27	0.972	3.231	25.39	5.569	1.243	886	0
6/10/2014 20:15	67919	15	161	2.623	123.4	11.41	4.611	119.3	6.397	8.88	121.9	2.669	26.33	27.13	28.91	0.797	2.577	27.21	5.959	1.382	887	0
6/10/2014 20:30	67920	15	161	2.489	127.2	11.02	4.609	123.6	5.227	8.83	123.5	2.133	25.89	26.82	28.48	0.925	2.59	29.76	6.894	1.622	887	0
6/10/2014 20:45	67921	15	161	2.402	124.1	10.44	4.522	121.4	4.96	8.55	125.7	2.025	25.56	26.57	28.22	1.01	2.666	30.77	7.09	1.315	887	0
6/10/2014 21:00	67922	15	161	2.486	122.9	10.31	4.617	120.6	4.629	8.71	126.9	2.312	25.17	26.14	27.91	0.971	2.739	31.52	7.107	1.274	887	0
6/10/2014 21:15	67923	15	161	2.559	124.3	10.99	4.653	122	5.874	8.8	128.2	2.729	25.01	25.91	27.52	0.894	2.507	31.69	7.051	1.51	887	0
6/10/2014 21:30	67924	15	161	2.699	128.9	11.01	4.78	126.3	6.042	8.66	130.5	3.499	25.24	26.08	27.23	0.835	1.988	30.95	6.901	1.621	888	0
6/10/2014 21:45	67925	15	161	3.143	137	10.7	5.175	132.7	6.65	9.01	134.1	4.04	25.66	26.36	27.2	0.7	1.538	29.66	6.648	1.396	888	0
6/10/2014 22:00	67926	15	161	3.429	141	11.18	5.418	135.8	7.111	9.11	137.3	4.321	25.73	26.33	26.9	0.603	1.17	29.28	6.518	1.579	888	0
6/10/2014 22:15	67927	15	161	3.607	144	11.42	5.641	139	6.94	9.22	139.1	4.25	25.55	26.08	26.53	0.525	0.975	30.1	6.769	1.604	888	0
6/10/2014 22:30	67928	15	161	3.395	147.5	11.76	5.41	142.9	7.097	8.98	142.5	4.28	25.28	25.8	26.22	0.515	0.931	30.99	6.961	1.617	888	0
6/10/2014 22:45	67929	15	161	3.754	149.7	11.21	5.887	144.5	7.304	9.11	143.7	4.994	25.26	25.72	25.97	0.459	0.716	32.04	7.423	1.51	888	0
6/10/2014 23:00	67930	15	161	3.64	149.5	11.83	5.586	144.6	7.801	9.12	143	4.785	25.01	25.43	25.68	0.416	0.664	33.28	7.768	1.519	888	0
6/10/2014 23:15	67931	15	161	3.542	145.8	11.71	5.508	140.8	7.263	8.9	139.4	4.707	24.68	25.12	25.42	0.436	0.733	34.42	7.972	1.507	887	0
6/10/2014 23:30	67932	15	161	3.774	144.1	11.84	5.838	139.3	7.137	9.1	138.1	4.845	24.62	25.05	25.32	0.432	0.702	34.65	8.01	1.665	887	0
6/10/2014 23:45	67933	15	161	4	146.9	11.57	6.122	141.7	7.874	9.5	139.9	5.183	24.63	25.04	25.28	0.41	0.654	34.4	7.915	1.501	887	0
6/11/2014 0:00	67934	15	162	4.356	151	11.93	6.764	145.5	7.71	10.61	143.4	4.955	24.88	25.28	25.56	0.404	0.681	33.19	7.608	1.67	887	0
6/11/2014 0:15	67935	15	162	4.689	154.9	10.8	7.007	148.9	7.161	10.56	146.3	4.943	25.01	25.39	25.59	0.385	0.581	32.16	7.262	1.854	887	0
6/11/2014 0:30	67936	15	162	4.315	150.9	11.66	6.571	144.7	7.667	9.98	143.1	4.68	24.68	25.07	25.23	0.388	0.543	32.5	7.132	1.65	887	0
6/11/2014 0:45	67937	15	162	3.947	146.2	11.65	6.185	141.4	7.111	9.7	140.7	4.6	24.14	24.57	24.82	0.427	0.674	33.75	7.21	1.539	887	0
6/11/2014 1:00	67938	15	162	3.97	145.5	11.67	6.108	141.4	7.71	9.68	140.6	4.687	23.85	24.24	24.56	0.394	0.708	34.57	7.3	1.54	887	0
6/11/2014 1:15	67939	15	162	4.059	145.9	11.34	6.297	140.5	7.106	9.76	139.6	4.777	23.71	24.11	24.37	0.402	0.659	35.16	7.43	1.462	887	0
6/11/2014 1:30	67940	15	162	4.032	147.4	11.75	6.038	142.5	6.877	9.37	140.7	4.464	23.52	23.9	24.1	0.375	0.58	36.13	7.662	1.618	886	0
6/11/2014 1:45	67941	15	162	3.46	150.6	11.37	5.477	145.3	7.252	8.54	143.5	4.377	23.1	23.51	23.74	0.417	0.64	37.62	7.878	1.626	887	0
6/11/2014 2:00	67942	15	162	3.049	150.8	11.65	4.948	145.4	6.736	8.26	143.7	3.608	22.64	23.12	23.5	0.475	0.857	39.15	8.06	1.386	886	0
6/11/2014 2:15	67943	15	162	2.815	155.1	11.51	4.492	148.6	7.164	7.503	145.1	3.788	22.32	22.84	23.29	0.52	0.969	40.66	8.33	1.298	886	0
6/11/2014 2:30	67944	15	162	2.836	161	9.92	4.457	153.8	6.458	7.516	151.3	3.355	22.08	22.64	23.2	0.56	1.12	42	8.59	1.24	886	0
6/11/2014 2:45	67945	15	162	2.501	167.7	9.74	4.153	160.1	5.947	7.165	154.4	3.114	21.72	22.38	22.99	0.652	1.27	43.54	8.8	1.165	886	0
6/11/2014 3:00	67946	15	162	2.297	155.3	11.83	3.96	148.7	8.15	7.084	147	5.061	21.61	22.25	22.87	0.644	1.261	44.75	9.1	1.221	886	0
6/11/2014 3:15	67947	15	162	2.557	153.1	11.74	4.425	145.7	6.816	7.757	144.1	3.452	21.62	22.23	22.85	0.601	1.224	45.29	9.3	1.384	886	0
6/11/2014 3:30	67948	15	162	3.14	146.6	12.07	4.966	141.4	7.696	8.82	140.8	4.014	21.84	22.27	22.88	0.428	1.03	44.81	9.34	1.536	886	0
6/11/2014 3:45	67949	15	162	3.47	139.2	12.48	5.41	133.2	7.093	9.29	135.1	4.42	21.79	22.19	22.76	0.394	0.963	44.36	9.14	1.442	886	0
6/11/2014 4:00	67950	15	162	3.489	137.4	12.05	5.503	132	8.06	9.29	134.3	3.689	21.75	22.16	22.89	0.409	1.135	44.54	9.16	1.299	886	0
6/11/2014 4:15	67951	15	162	3.471	138.3	11.05	5.448	132.3	7.154	9.26	134.5	3.548	21.83	22.27	22.95	0.436	1.117	44.55	9.24	1.486	886	0
6/11/2014 4:30	67952	15	162	3.264	142.2	11.32	5.202	136	7.021	8.86	137.2	3.414	21.71	22.15	22.83	0.442	1.119	45.35	9.39	1.481	886	0
6/11/2014 4:45	67953	15	162	3.206	142.1	11.18	5.173	135.6	6.338	8.94	137	2.807	21.49	21.96	22.7	0.475	1.207	45.94	9.38	2.242	886	0
6/11/2014 5:00	67954	15	162	3.366	139.4	11.1	5.351	133.8	6.23	9.27	134.7	2.693	21.33	21.73	22.49	0.408	1.163	46.92	9.55	8.91	886	0
6/11/2014 5:15	67955	15	162	3.257	141.2	11.42	5.14	134.6	7.13	9.03	134.6	2.936	21.22	21.54	22.26	0.316	1.032	48.01	9.8	35.37	886	0
6/11/2014 5:30	67956	15	162	3.278	140.2	10.73	5.099	134.3	6.765	8.85	134.4	2.943	21.46	21.64	22.15	0.179	0.697	47.87	9.97	81.9	886	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/11/2014 5:45	67957	15	162	3.208	141.1	11.76	4.944	133.9	7.647	8.34	134.3	2.948	21.64	21.74	22.05	0.099	0.41	47.5	10.02	102.5	886	0
6/11/2014 6:00	67958	15	162	3.246	141.3	11.62	4.801	134.1	7.619	7.837	133.8	3.332	21.8	21.83	22.11	0.032	0.308	47.67	10.22	142.9	886	0
6/11/2014 6:15	67959	15	162	3.215	138.2	11.44	4.624	132.2	7.076	6.905	128.9	3.714	22.3	22.22	22	-0.077	-0.297	46.5	10.31	171.5	886	0
6/11/2014 6:30	67960	15	162	3.166	141.1	11.81	4.555	135.3	7.352	6.184	132.8	5.118	23.06	22.75	22.36	-0.315	-0.7	45.37	10.63	287.4	886	0
6/11/2014 6:45	67961	15	162	3.291	150.3	12.31	4.658	144.6	8.48	5.741	143	7.581	24.16	23.73	23.23	-0.431	-0.932	42.95	10.8	350.7	887	0
6/11/2014 7:00	67962	15	162	4.023	161.3	10.66	5.373	154.5	7.013	6.259	149.9	5.727	25.03	24.54	23.99	-0.484	-1.032	40.61	10.73	422.1	887	0
6/11/2014 7:15	67963	15	162	3.751	160.5	12.2	5.227	153.6	7.441	6	149.9	5.719	25.89	25.24	24.71	-0.651	-1.185	38.56	10.73	497.4	887	0
6/11/2014 7:30	67964	15	162	3.125	163.9	13.19	4.21	156.7	10.09	4.907	152.4	8.06	26.77	26.08	25.5	-0.693	-1.273	36.77	10.79	539	887	0
6/11/2014 7:45	67965	15	162	2.952	168.6	14.71	3.95	163.6	12.31	4.667	160.1	10.17	27.73	27.1	26.51	-0.63	-1.222	33.72	10.33	577.2	886	0
6/11/2014 8:00	67966	15	162	3.599	180.1	16.36	4.714	177.3	11.68	5.554	175.6	8.72	28.77	28.17	27.55	-0.606	-1.223	30.06	9.52	629.6	886	0
6/11/2014 8:15	67967	15	162	3.778	187.5	12.85	4.882	183.6	9.82	5.444	181.7	7.595	29.23	28.59	27.94	-0.64	-1.291	29.49	9.63	671.8	886	0
6/11/2014 8:30	67968	15	162	3.315	196.1	17.68	4.315	192.2	14.51	5.017	188.3	11.87	30.02	29.28	28.64	-0.734	-1.373	27.41	9.22	776.6	886	0
6/11/2014 8:45	67969	15	162	3.355	210	21.57	4.37	206.7	17	5.029	201.9	11.45	31.01	30.18	29.4	-0.824	-1.607	25.05	8.72	862	886	0
6/11/2014 9:00	67970	15	162	3.461	214.9	18.36	4.384	213	15.07	5.011	209.3	11.66	31.47	30.56	29.75	-0.911	-1.718	23.65	8.26	921	886	0
6/11/2014 9:15	67971	15	162	3.352	232.4	16.62	4.367	229.4	13.83	4.881	226.8	11.02	31.84	30.94	30.22	-0.901	-1.627	22.81	8.04	991	886	0
6/11/2014 9:30	67972	15	162	3.096	244.6	22.12	3.995	240.8	19.01	4.445	232.1	13.89	32.23	31.32	30.52	-0.904	-1.709	22.51	8.16	1012	886	0
6/11/2014 9:45	67973	15	162	2.852	241.3	26.9	3.646	237.5	24.89	4.057	240.3	15.34	32.5	31.58	30.75	-0.925	-1.75	21.99	8.05	1026	886	0
6/11/2014 10:00	67974	15	162	2.407	275.2	21.95	2.832	269.7	20.72	3.253	265.6	13.95	32.6	31.86	31.21	-0.738	-1.39	21.64	7.893	1002	886	0
6/11/2014 10:15	67975	15	162	1.908	319.9	36.38	2.099	317.1	33.27	2.224	304	23.66	33.08	32.49	31.72	-0.594	-1.359	21.54	8.23	1179	886	0
6/11/2014 10:30	67976	15	162	2.442	306.7	35.42	2.777	310	23.75	2.963	305.5	17.88	33.34	32.69	32.08	-0.649	-1.255	20.83	7.94	1174	886	0
6/11/2014 10:45	67977	15	162	2.634	315.4	34.54	3.189	315	25.28	3.306	305.8	19.95	33.52	32.87	32.12	-0.647	-1.394	19.95	7.456	1153	886	0
6/11/2014 11:00	67978	15	162	2.1	320	35.41	2.532	320.4	29.52	2.836	312.2	21.98	33.69	33.06	32.35	-0.633	-1.341	19.75	7.447	1234	886	0
6/11/2014 11:15	67979	15	162	2.701	302	28.43	3.333	300	25.2	3.667	295.1	17.03	34.64	33.8	33.01	-0.835	-1.625	18.75	7.461	1252	886	0
6/11/2014 11:30	67980	15	162	4.047	337.1	16.63	5.52	332.9	13.21	6.394	327.3	11.87	34.55	33.51	32.65	-1.034	-1.9	18.53	7.219	954	886	0
6/11/2014 11:45	67981	15	162	3.643	346.7	18.94	4.943	343.7	14.96	5.613	338.2	11.24	34.23	33.09	32.26	-1.133	-1.97	18.81	7.172	1202	886	0
6/11/2014 12:00	67982	15	162	3.179	355.4	21.17	4.171	353	16.54	5.092	343.3	16.25	34.64	33.55	32.75	-1.085	-1.883	18.13	6.969	1287	886	0
6/11/2014 12:15	67983	15	162	2.773	349.9	24.03	3.668	341.4	19.81	4.241	333.5	21.63	35.04	33.99	33.19	-1.055	-1.853	16.58	5.993	1277	886	0
6/11/2014 12:30	67984	15	162	3.823	336.8	27.37	4.848	335.2	23.01	5.752	330	16.09	35.92	34.66	33.77	-1.26	-2.15	14.93	5.165	1295	885	0
6/11/2014 12:45	67985	15	162	3.87	332.5	17.38	5.022	329.9	14.89	5.955	325.2	10.39	36.64	35.47	34.48	-1.169	-2.165	12.43	3.109	1292	885	0
6/11/2014 13:00	67986	15	162	3.758	331.1	25.82	4.603	328.9	22.19	5.374	323.7	19.79	36.8	35.87	35.03	-0.933	-1.772	12.06	2.821	1239	885	0
6/11/2014 13:15	67987	15	162	2.99	343.5	27.92	3.938	344.8	23.75	4.568	339.3	27.12	37.18	36.28	35.39	-0.902	-1.784	12.1	3.159	1226	885	0
6/11/2014 13:30	67988	15	162	2.621	311.6	33.3	3.144	311.8	25.82	3.749	308.6	19.18	36.87	36.12	35.35	-0.75	-1.514	11.96	2.763	1205	885	0
6/11/2014 13:45	67989	15	162	2.524	334.8	37.7	3.246	337.1	29.74	3.724	334.6	22.27	37.33	36.66	35.89	-0.67	-1.436	12.18	3.368	1133	884	0
6/11/2014 14:00	67990	15	162	1.979	322.1	36.69	2.347	324.7	32.16	2.839	315.1	37.98	37.37	36.93	36.02	-0.436	-1.346	12.1	3.311	1135	884	0
6/11/2014 14:15	67991	15	162	2.412	266.5	37.32	2.962	261.5	37	3.465	260.6	35.15	37.61	37.06	36.17	-0.548	-1.443	11.56	2.852	1098	884	0
6/11/2014 14:30	67992	15	162	2.856	308.7	30.2	3.605	303.7	24.52	3.888	292.5	16.94	37.72	37.01	36.21	-0.708	-1.506	11.43	2.772	1050	884	0
6/11/2014 14:45	67993	15	162	1.973	337.7	46.71	2.409	334.8	50.12	2.771	317.1	42.13	37.53	37.07	36.37	-0.46	-1.166	11.64	2.887	1022	884	0
6/11/2014 15:00	67994	15	162	2.383	281.1	37.1	2.708	282.3	29.34	2.799	293.5	25.27	37.78	37.2	36.58	-0.581	-1.198	11.62	3.058	948	883	0
6/11/2014 15:15	67995	15	162	1.631	230.2	35.31	1.78	231.2	41.6	1.864	249.6	47.72	37.16	37.01	36.58	-0.148	-0.579	11.88	2.882	642.7	883	0
6/11/2014 15:30	67996	15	162	2.299	229.8	64.44	2.893	220.7	54.94	3.384	227.6	44.06	37.74	37.19	36.56	-0.542	-1.175	11.65	3.053	882	883	0
6/11/2014 15:45	67997	15	162	2.313	279.5	39.95	2.777	279.9	36.99	3.124	274.9	35.35	37.55	37.25	36.58	-0.296	-0.971	11.27	2.439	566.8	883	0
6/11/2014 16:00	67998	15	162	1.937	335.8	31.62	2.323	332.7	21.72	2.547	309.5	21.08	37.03	36.91	36.48	-0.113	-0.542	11.86	2.763	330.2	883	0
6/11/2014 16:15	67999	15	162	2.06	189.3	27.16	2.639	184.9	24.74	2.847	185.7	21.54	37.12	37.02	36.48	-0.104	-0.645	12.21	3.246	408.1	883	0
6/11/2014 16:30	68000	15	162	2.469	186.9	28.99	3.072	185.3	28.04	3.512	183.8	21.85	37.85	37.5	36.69	-0.352	-1.156	11.72	3.219	629.1	882	0
6/11/2014 16:45	68001	15	162	3.002	184.3	21.85	4.084	177.5	17.69	4.828	170.7	11.46	36.88	36.95	36.42	0.078	-0.456	12.29	3.153	241	882	0
6/11/2014 17:00	68002	15	162	3.353	167.5	12.86	4.875	162.6	9.94	5.915	162.6	8.95	36.38	36.68	36.32	0.298	-0.055	12.61	3.132	147.7	882	0
6/11/2014 17:15	68003	15	162	2.909	185	13.72	4.001	179.2	10.45	5.519	173.9	5.896	36.27	36.59	36.29	0.32	0.014	13.01	3.486	162.8	882	0
6/11/2014 17:30	68004	15	162	2.356	176.5	11.66	3.44	174.1	8.07	4.819	175.9	5.951	36.28	36.52	36.26	0.232	-0.025	13.89	4.428	305.2	882	0
6/11/2014 17:45	68005	15	162	2.63	189.7	13.83	3.476	185.3	10.7	4.352	178.7	6.22	36.72	36.79	36.28	0.067	-0.439	13.65	4.529	328.2	882	0
6/11/2014 18:00	68006	15	162	3.153	188.4	18.79	4.276	183.4	14.38	5.41	182	12.34	36.57	36.83	36.46	0.266	-0.11	12.97	3.681	236.4	882	0
6/11/2014 18:15	68007	15	162	2.903	205.4	19.71	4.012	201.5	18.86	5.232	204.2	18.57	36.21	36.74	36.5	0.533	0.286	12.79	3.194	168.4	882	0
6/11/2014 18:30	68008	15	162	2.852	265.3	16.18	4.731	263.9	13.32	6.784	260	11.03	36.11	36.68	36.65	0.567	0.543	11.1	0.999	105.9	882	0
6/11/2014 18:45	68009	15	162	3.055	270.3	10.77	5.378	267.8	7.526	8.43	263.9	4.716	35.59	36.28	36.52	0.691	0.93	9.59	-1.28	50.4	883	0
6/11/2014 19:00	68010	15	162	2.562	266.8	9.11	4.718	264.2	6.022	7.828	260.1	2.895	34.65	35.66	36.36	1.011	1.708	10.19	-1.169	14.66	883	0
6/11/2014 19:15	68011	15	162	1.618	257	10.16	3.172	254.5	6.924	6.953	255	3.047	33.1	34.66	35.9	1.556	2.799	11.69	-0.467	3.859	883	0
6/11/2014 19:30	68012	15	162	1.577	235.3	23.42	2.932	237.8	14.09	6.547	247.4	5.493	32.1	34.12	35.45	2.02	3.343	12.95	0.175	1.343	883	0
6/11/2014 19:45	68013	15	162	1.391	201.4	17.64	3.032	225.4	10.06	5.635	239.1	6.062	30.13	33.33	34.77	3.202	4.645	16.18	1.712	1.03	883	0
6/11/2014 20:00	68014	15	162	1.681	208.1	8.14	3.377	221.2	8.27	6.445	238.7	5.729	29.75	32.68	35.07	2.924	5.314	17.32	2.347	1.206	883	0
6/11/2014 20:15	68015	15	162	1.949	208.1	10.85	3.615	223.7	9.28	6.398	240.6	6.058	29.74	32.91	34.8	3.176	5.064	17.63	2.586	1.128	883	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/11/2014 20:30	68016	15	162	1.683	194	11.59	3.166	212.5	8.93	6.271	239.3	5.605	28.84	32.11	34.58	3.261	5.732	19.38	3.209	1.099	883	0
6/11/2014 20:45	68017	15	162	1.432	194.6	13.46	2.941	217.8	11.51	6.279	245	5.72	28	31.44	33.75	3.437	5.751	21.11	3.735	1.255	883	0
6/11/2014 21:00	68018	15	162	1.149	178.3	9.4	2.386	210.7	7.341	5.515	244.9	5.057	27.27	30.58	33.12	3.313	5.852	22.5	4.028	1.32	884	0
6/11/2014 21:15	68019	15	162	1.234	165.8	11.69	2.238	212.3	10.6	5.911	244.7	4.567	25.95	30.27	32.82	4.316	6.865	26.16	5.062	1.067	884	0
6/11/2014 21:30	68020	15	162	0.867	171.4	16	1.789	222.9	14.63	6.419	249.3	3.341	25.96	30	32.99	4.042	7.031	26.3	5.159	1.324	884	0
6/11/2014 21:45	68021	15	162	2.062	311.2	26.74	3.068	301.3	16.58	6.368	290.1	14.1	27.05	29.46	31.88	2.411	4.831	22.9	3.849	1.323	884	0
6/11/2014 22:00	68022	15	162	1.988	331.9	20.61	3.919	323.4	15.73	6.489	321.2	14.11	26.98	29.5	31.49	2.518	4.509	20.65	2.562	1.25	885	0
6/11/2014 22:15	68023	15	162	2.814	352.4	14.47	5.176	347.6	10.15	8.34	346.3	9.97	28.87	30.41	31.84	1.542	2.972	18.44	2.525	1.342	885	0
6/11/2014 22:30	68024	15	162	2.721	0.998	16.64	4.775	359	15.46	7.664	1.732	12.81	29.49	30.78	31.68	1.291	2.193	17.9	2.608	1.273	885	0
6/11/2014 22:45	68025	15	162	3.396	20.46	13.39	5.705	17.63	7.825	9.76	15.81	3.854	30.33	31.22	32.05	0.896	1.724	16.02	1.731	1.498	885	0
6/11/2014 23:00	68026	15	162	2.715	24.1	12.54	4.818	20.71	6.934	8.95	18.22	3.529	29.46	30.43	31.41	0.965	1.952	16.98	1.854	1.421	885	0
6/11/2014 23:15	68027	15	162	2.49	22.55	13.67	4.713	19.81	6.365	9.08	18.22	2.046	28.74	29.88	31.35	1.142	2.606	18.17	2.216	1.315	885	0
6/11/2014 23:30	68028	15	162	2.23	22.49	10	4.461	19.5	4.533	9	20.23	1.951	27.78	29.17	31.24	1.395	3.465	19.91	2.714	1.457	885	0
6/11/2014 23:45	68029	15	162	1.782	29.19	14.7	4.136	27.69	5.679	9.17	25	1.719	26.41	28.07	31.3	1.662	4.883	22.41	3.254	1.481	885	0
6/12/2014 0:00	68030	15	163	1.571	16.68	18.13	3.704	19.58	7.134	8.29	27.63	2.99	25.47	27.62	30.78	2.158	5.314	24.72	3.857	1.207	885	0
6/12/2014 0:15	68031	15	163	1.336	36.76	17.39	3.439	36.7	8.07	8.68	42.38	5.97	24.69	26.3	29.41	1.611	4.721	27.21	4.565	1.416	885	0
6/12/2014 0:30	68032	15	163	2.225	49.33	13.52	4.087	50.29	8.53	8.45	56.33	4.231	25.29	26.16	27.55	0.873	2.265	27.8	5.38	1.534	885	0
6/12/2014 0:45	68033	15	163	1.823	54.65	12.34	3.464	56.25	7.348	7.09	60.73	2.835	24.85	25.74	26.89	0.885	2.043	31.86	6.981	1.182	885	0
6/12/2014 1:00	68034	15	163	2.179	63.68	12.85	3.845	66.46	6.672	7.604	70.1	3.568	24.55	25.35	28.52	0.805	3.975	33.01	7.241	1.263	885	0
6/12/2014 1:15	68035	15	163	2.118	68.16	13.82	3.75	72.24	8.68	7.537	76.15	1.818	24.48	25.11	28.04	0.631	3.557	34.38	7.779	1.267	885	0
6/12/2014 1:30	68036	15	163	2.966	81.8	11.29	4.608	81	7.383	8.1	82.6	2.515	25.15	25.55	28.08	0.401	2.934	35.73	8.93	1.185	885	0
6/12/2014 1:45	68037	15	163	2.493	103.5	41.2	3.905	96	36.38	7.48	97.3	8.79	25.58	25.9	27.18	0.319	1.6	35.41	9.18	1.193	885	0
6/12/2014 2:00	68038	15	163	1.687	231.1	87.8	2.225	216.2	85.6	2.661	170.9	80.3	25.61	25.92	25.87	0.315	0.258	35.44	9.21	0.719	885	0
6/12/2014 2:15	68039	15	163	1.118	165.6	86.7	1.518	243.7	92.5	2.039	168.2	75.01	25.24	25.83	25.89	0.591	0.657	36.28	9.23	0.625	885	0
6/12/2014 2:30	68040	15	163	1.246	53.47	59.99	1.588	60.98	46.59	2.522	74.23	20.86	24.21	25.3	25.64	1.091	1.425	39.49	9.59	0.656	885	0
6/12/2014 2:45	68041	15	163	1.469	276.9	18.18	2.134	276.2	22.74	1.749	258.1	76.87	23.85	24.99	25.2	1.135	1.344	40.56	9.66	0.68	886	0
6/12/2014 3:00	68042	15	163	0.948	344.9	60.45	1.879	324.2	26.87	2.262	307.5	17.16	22.68	23.95	25.24	1.274	2.561	42.59	9.33	0.631	886	0
6/12/2014 3:15	68043	15	163	1.361	352.3	28.55	3.051	341.7	15.88	2.869	323.2	13.3	22.96	23.87	25.57	0.911	2.61	42.73	9.64	0.749	886	0
6/12/2014 3:30	68044	15	163	2.914	359.3	17.97	4.872	357.2	12.2	7.852	355.8	12.7	22.65	23	23.93	0.348	1.277	45.37	10.25	1.213	886	0
6/12/2014 3:45	68045	15	163	1.093	22.51	54.91	1.858	8.81	34.56	4.181	3.829	16.99	21.86	22.69	23.69	0.821	1.822	49.14	10.73	0.811	887	0
6/12/2014 4:00	68046	15	163	1.249	96	23.31	2.472	87.2	9.95	3.059	45.94	6.231	20.21	22.83	24.99	2.614	4.776	55.58	11.06	0.705	886	0
6/12/2014 4:15	68047	15	163	1.649	59.65	14.8	3.799	64.46	8.26	4.328	52.83	9.44	20.42	22.49	24.82	2.07	4.401	56.07	11.38	0.825	886	0
6/12/2014 4:30	68048	15	163	1.518	25.81	18.41	2.95	46.4	13.76	3.402	34.43	14.03	20.21	22.15	24.83	1.947	4.623	56.26	11.24	0.827	887	0
6/12/2014 4:45	68049	15	163	2.102	355.3	15.68	4.095	1.158	16.22	6.154	348.6	14.17	19.93	21.69	23.77	1.756	3.835	58.65	11.61	1.918	887	0
6/12/2014 5:00	68050	15	163	2.023	3.701	24.94	3.925	358.6	17.74	6.684	339.9	7.132	19.79	20.47	23.31	0.68	3.52	61.1	12.09	7.436	887	0
6/12/2014 5:15	68051	15	163	1.671	340.9	28.73	3.212	346.2	23.84	5.87	325	15.01	19.48	20.33	23.38	0.852	3.903	63.27	12.33	30.67	887	0
6/12/2014 5:30	68052	15	163	3.241	347.7	17.47	5.161	342.7	13.8	8.8	333.2	8.72	21.24	21.51	22.34	0.269	1.104	51.14	10.74	83.2	888	0
6/12/2014 5:45	68053	15	163	3.881	9.9	15.97	5.869	7.944	14.98	9.16	4.279	14.24	21.93	21.94	21.9	0.014	-0.033	45.77	9.72	150.8	888	0
6/12/2014 6:00	68054	15	163	4.289	3.737	17.62	6.336	0.342	16.11	8.23	359.2	14.5	22.13	22.04	21.57	-0.087	-0.554	47.23	10.37	174.6	888	0
6/12/2014 6:15	68055	15	163	4.39	357.3	19.93	6.377	354.8	16.99	8.7	351.6	15.13	22.03	21.84	21.27	-0.197	-0.765	51.2	11.51	222.7	889	0
6/12/2014 6:30	68056	15	163	3.58	344.5	17.37	5.23	343	12.47	6.66	335.7	11.35	22.35	22.03	21.46	-0.328	-0.898	50.87	11.7	302.7	889	0
6/12/2014 6:45	68057	15	163	4.071	333.5	16.11	5.882	333.3	14.4	7.365	326.1	10.5	22.96	22.52	21.82	-0.44	-1.138	49.31	11.79	398.4	889	0
6/12/2014 7:00	68058	15	163	4.932	340.1	13.16	7.166	337.8	9.64	8.64	329.4	8.28	23.35	22.77	22	-0.582	-1.355	48.43	11.88	424.9	890	0
6/12/2014 7:15	68059	15	163	3.809	348.4	19.15	5.527	344.7	15.78	6.84	338.6	13.89	23.3	22.81	22.13	-0.493	-1.171	49.98	12.31	422.3	890	0
6/12/2014 7:30	68060	15	163	4.623	353.3	19.69	6.756	351.2	13.46	8.1	347.2	10.1	23.88	23.25	22.45	-0.628	-1.428	48.82	12.48	399.3	890	0
6/12/2014 7:45	68061	15	163	4.081	345.8	16.16	5.999	344	11.78	7.306	336.4	7.86	23.5	23.07	22.42	-0.42	-1.074	50.31	12.59	271.5	890	0
6/12/2014 8:00	68062	15	163	4.001	342.3	18.52	5.958	341.7	14.68	7.389	338.8	12.65	23.67	23.22	22.5	-0.459	-1.173	50.52	12.82	310.5	890	0
6/12/2014 8:15	68063	15	163	3.925	351.6	17.49	5.677	350.3	13.64	7.183	344.8	13.23	23.85	23.37	22.7	-0.48	-1.151	50.35	12.93	379.1	891	0
6/12/2014 8:30	68064	15	163	4.504	9.65	19.09	6.425	6.971	13.77	7.727	1.137	11.56	24.99	23.94	23.02	-1.041	-1.969	46.99	12.91	853	891	0
6/12/2014 8:45	68065	15	163	4.27	357.9	19.58	6.079	355	17.34	7.316	351.1	12.95	25.73	24.66	23.66	-1.068	-2.07	45.37	13.05	813	891	0
6/12/2014 9:00	68066	15	163	4.302	358.1	20.68	6.141	357.5	18.52	7.638	353.1	14.01	25.97	24.82	23.8	-1.155	-2.177	44.74	13.06	909	891	0
6/12/2014 9:15	68067	15	163	4.57	358.4	20.65	6.351	357.3	13.83	7.472	354.7	13.36	26.25	24.99	24.09	-1.255	-2.152	44.18	13.11	952	891	0
6/12/2014 9:30	68068	15	163	4.855	3.606	18.93	6.96	0.821	15.98	8.15	355.7	14.45	26.6	25.28	24.2	-1.314	-2.397	43.59	13.22	997	891	0
6/12/2014 9:45	68069	15	163	4.963	358.3	20.67	7.091	354.5	17.21	8.57	350.4	15.38	27.24	25.82	24.64	-1.419	-2.596	42.66	13.47	1039	891	0
6/12/2014 10:00	68070	15	163	4.529	358.8	21.14	6.548	357.8	17.09	7.594	354.4	14.36	27.3	25.86	24.88	-1.442	-2.427	42.32	13.41	1037	891	0
6/12/2014 10:15	68071	15	163	4.956	357.3	19.58	6.688	354.9	16.95	7.819	349.7	12.91	27.84	26.43	25.36	-1.415	-2.485	41.33	13.53	1111	891	0
6/12/2014 10:30	68072	15	163	4.913	359.7	20.13	6.917	358.1	15.98	8.26	357.2	16.64	28.25	26.7	25.68	-1.553	-2.567	40.59	13.61	1144	891	0
6/12/2014 10:45	68073	15	163	4.421	6.382	23.85	6.403	2.99	16.46	7.803	358.6	17.74	28.68	27.15	26.08	-1.524	-2.6	39.42	13.54	1167	891	0
6/12/2014 11:00	68074	15	163	4.243	357.9	22.41	6.086	356.4	19.06	7.217	354.8	17.43	29.03	27.45	26.38	-1.582	-2.646	38.36	13.44	1187	891	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/12/2014 11:15	68075	15	163	4.093	0.99	23.85	5.73	0.507	21.81	6.697	358.8	19.18	29.52	27.97	26.85	-1.548	-2.666	36.71	13.19	1207	891	0
6/12/2014 11:30	68076	15	163	4.08	358	21.11	5.465	353.9	17.99	6.767	351	16.31	29.93	28.35	27.18	-1.581	-2.747	36.15	13.32	1219	891	0
6/12/2014 11:45	68077	15	163	3.445	10.49	19.49	4.755	6.436	13.8	5.74	0.942	13.83	30.2	28.7	27.56	-1.499	-2.642	34.84	12.99	1229	890	0
6/12/2014 12:00	68078	15	163	3.524	357.6	25.37	4.735	352.8	21.23	5.594	352.5	17.87	30.34	28.91	27.92	-1.435	-2.419	35.05	13.21	1228	890	0
6/12/2014 12:15	68079	15	163	3.658	19.39	31.15	4.992	16.58	27.54	5.908	13.82	23.28	30.9	29.39	28.4	-1.513	-2.504	33.5	13.01	1225	890	0
6/12/2014 12:30	68080	15	163	3.01	7.9	38.96	3.912	6.211	33.26	4.715	1.667	29.4	31.06	29.8	28.72	-1.262	-2.337	32.08	12.48	1218	890	0
6/12/2014 12:45	68081	15	163	3.093	16.83	31.24	4.165	13.41	27.78	4.723	6.744	25.48	31.34	30	29.15	-1.337	-2.193	31.84	12.61	1210	890	0
6/12/2014 13:00	68082	15	163	3.049	17.67	35.46	4.122	12.29	30.39	5.016	6.115	24.16	31.84	30.52	29.49	-1.322	-2.357	31.02	12.65	1192	890	0
6/12/2014 13:15	68083	15	163	2.776	14.79	27.22	3.714	11.26	21.54	4.391	6.946	21.34	32.02	30.69	29.77	-1.33	-2.251	30	12.29	1176	890	0
6/12/2014 13:30	68084	15	163	2.778	15.56	34.41	3.688	15.08	29.87	4.218	6.994	28.67	31.99	30.64	29.83	-1.35	-2.158	29.9	12.22	1153	890	0
6/12/2014 13:45	68085	15	163	3.171	8.27	22.76	4.344	7.978	20.19	4.989	8.69	18.46	32.18	30.78	29.84	-1.403	-2.34	29.95	12.4	1122	890	0
6/12/2014 14:00	68086	15	163	3.181	35.17	22.2	4.426	30.73	15.03	5.359	27.5	9.48	32.17	30.81	29.86	-1.362	-2.306	28.97	11.89	1080	890	0
6/12/2014 14:15	68087	15	163	3.631	36.76	20.96	4.87	32	14.81	5.815	24.79	14.42	32.38	31.08	30.12	-1.3	-2.258	29.33	12.25	1053	889	0
6/12/2014 14:30	68088	15	163	3.214	40.09	26.32	4.417	37.05	19.69	5.472	36.98	14.04	32.63	31.45	30.36	-1.183	-2.265	28.21	11.88	1009	889	0
6/12/2014 14:45	68089	15	163	3.89	24.61	24.79	5.613	21.06	24.3	6.97	21.63	19.73	32.87	31.46	30.37	-1.411	-2.507	28	11.98	976	889	0
6/12/2014 15:00	68090	15	163	4.413	49.85	21.36	6.072	43.61	17.25	7.302	38.04	15.97	32.78	31.56	30.45	-1.224	-2.33	27.71	11.74	932	889	0
6/12/2014 15:15	68091	15	163	4.504	54.49	17.89	6.459	49.29	13.16	7.872	44.63	11.67	32.72	31.44	30.28	-1.278	-2.44	28.17	11.94	883	889	0
6/12/2014 15:30	68092	15	163	3.604	33.81	24.86	5.02	31.89	19.71	5.989	29.86	19.05	32.37	31.37	30.46	-1.005	-1.908	28.22	11.66	832	889	0
6/12/2014 15:45	68093	15	163	3.323	40.93	26.27	4.692	37.88	19.07	5.788	33.75	14.79	32.61	31.53	30.61	-1.081	-1.997	27.87	11.68	773.3	889	0
6/12/2014 16:00	68094	15	163	3.307	69.5	24.13	4.219	63.82	22.74	5.261	56.37	21.39	32.38	31.55	30.67	-0.828	-1.706	28.01	11.56	716.7	889	0
6/12/2014 16:15	68095	15	163	3.147	47.92	22.24	4.372	41.31	17.79	5.358	38.6	14.24	32.24	31.32	30.53	-0.921	-1.709	28.93	11.93	657.1	889	0
6/12/2014 16:30	68096	15	163	3.418	42.42	28.77	4.715	39.1	22.13	5.667	36.98	15.55	32.18	31.42	30.65	-0.757	-1.531	29.57	12.21	593.9	889	0
6/12/2014 16:45	68097	15	163	3.848	63.08	18.07	5.296	55.6	14.81	6.674	47.07	15.11	32.15	31.4	30.63	-0.746	-1.522	30.89	12.85	533.1	889	0
6/12/2014 17:00	68098	15	163	4.288	49.15	17.12	6.281	46.04	11.92	7.521	42.54	9.59	31.65	30.91	30.14	-0.733	-1.504	32.92	13.39	467.3	889	0
6/12/2014 17:15	68099	15	163	4.477	49.57	17.15	6.543	47.11	12.64	7.633	43.63	8.89	31.26	30.65	29.94	-0.607	-1.317	33.57	13.35	399	889	0
6/12/2014 17:30	68100	15	163	4.365	65.37	15.46	6.163	60.83	11.54	7.298	55.78	8.91	30.99	30.49	29.8	-0.501	-1.189	33.8	13.22	334.4	889	0
6/12/2014 17:45	68101	15	163	4.281	55.33	14.82	6.247	50.34	10.99	7.877	49.5	9.2	30.78	30.43	29.74	-0.355	-1.044	34.37	13.3	269.9	889	0
6/12/2014 18:00	68102	15	163	4.727	64.52	14.17	6.804	60.98	9.24	8.54	57.79	7.164	30.37	30.1	29.44	-0.272	-0.932	35.95	13.62	207.1	889	0
6/12/2014 18:15	68103	15	163	5.081	66.38	11.43	7.239	61.49	7.476	8.57	58.48	5.26	29.78	29.62	29.07	-0.164	-0.716	37.62	13.81	147.8	889	0
6/12/2014 18:30	68104	15	163	4.999	62.62	13.01	7.369	58.17	8.8	9.55	56.2	5.042	29.24	29.19	28.69	-0.053	-0.554	39.36	14.02	93.7	889	0
6/12/2014 18:45	68105	15	163	5.091	62.84	12.15	7.441	58.98	7.894	9.54	56.58	4.87	28.65	28.68	28.26	0.025	-0.395	40.97	14.11	48.53	889	0
6/12/2014 19:00	68106	15	163	4.983	65.91	11.3	7.246	61.44	8.61	9.67	58.39	5.3	28.01	28.1	27.75	0.084	-0.263	43.08	14.32	17.55	889	0
6/12/2014 19:15	68107	15	163	5.328	65.01	12.15	7.739	59.85	8.23	10.85	57.34	4.214	27.46	27.56	27.26	0.1	-0.194	44.97	14.48	4.452	889	0
6/12/2014 19:30	68108	15	163	5.152	64.6	11.56	7.772	58.44	8.31	10.49	56.33	4.29	26.97	27.08	26.8	0.114	-0.162	46.61	14.59	1.806	890	0
6/12/2014 19:45	68109	15	163	5.472	67.11	11.7	7.999	62.2	7.569	10.58	59.96	4.802	26.54	26.65	26.35	0.109	-0.184	48.39	14.78	1.545	890	0
6/12/2014 20:00	68110	15	163	5.922	68.76	10.92	8.38	65.66	7.808	11.21	63.28	4.983	26.16	26.25	25.95	0.094	-0.208	49.73	14.85	1.812	890	0
6/12/2014 20:15	68111	15	163	5.925	70.73	10.99	8.44	65.64	7.585	11.17	62.62	5.128	25.8	25.9	25.61	0.097	-0.19	50.9	14.89	1.552	890	0
6/12/2014 20:30	68112	15	163	5.479	72.18	11.32	8.03	67.49	7.733	10.71	64.6	4.879	25.47	25.58	25.31	0.113	-0.16	52.04	14.93	1.567	890	0
6/12/2014 20:45	68113	15	163	5.183	73.51	10.41	7.424	69.27	7.276	9.99	66.48	4.632	25.16	25.28	25.02	0.116	-0.141	52.85	14.88	1.478	890	0
6/12/2014 21:00	68114	15	163	5.157	72.77	11.22	7.438	68.65	7.344	9.88	66.84	4.628	24.91	25.03	24.77	0.118	-0.137	53.67	14.89	1.55	890	0
6/12/2014 21:15	68115	15	163	5.542	75.25	11.14	7.778	71.44	7.086	10.48	67.99	4.917	24.69	24.81	24.56	0.117	-0.131	54.33	14.87	1.528	891	0
6/12/2014 21:30	68116	15	163	5.751	76.01	11.29	8.3	71.61	8.03	11.21	69.94	5.248	24.45	24.55	24.28	0.102	-0.17	55.21	14.9	1.643	891	0
6/12/2014 21:45	68117	15	163	6.246	79.6	11.01	8.82	74.38	8.03	12.06	72.82	4.996	24.18	24.26	23.97	0.083	-0.207	56.6	15.04	1.626	891	0
6/12/2014 22:00	68118	15	163	5.583	81.5	11.82	7.938	77.26	7.869	10.82	74.72	4.906	23.86	23.95	23.68	0.091	-0.183	58.23	15.18	1.683	891	0
6/12/2014 22:15	68119	15	163	6.337	82.5	11.89	8.89	79.18	7.799	12.23	76.94	5.204	23.6	23.67	23.37	0.069	-0.227	60.21	15.45	1.772	891	0
6/12/2014 22:30	68120	15	163	6.069	88.1	11.72	8.59	84.4	7.732	11.95	81.7	4.96	23.27	23.33	23.03	0.065	-0.24	62.65	15.76	1.661	891	0
6/12/2014 22:45	68121	15	163	6.445	90.9	11.78	9.08	87.3	8.1	12.32	84	4.851	22.89	22.94	22.61	0.05	-0.281	65.21	16.03	1.704	891	0
6/12/2014 23:00	68122	15	163	6.264	93	11.18	8.74	89.7	7.272	11.79	86.2	5.081	22.48	22.52	22.19	0.039	-0.297	67.76	16.25	1.724	892	0
6/12/2014 23:15	68123	15	163	5.987	92.9	11.08	8.43	88.5	7.346	11.01	85.7	4.505	22.14	22.19	21.85	0.042	-0.296	69.15	16.24	1.619	892	0
6/12/2014 23:30	68124	15	163	5.49	91.2	10.72	7.714	88.3	7.032	10.58	85.8	4.965	21.8	21.84	21.5	0.042	-0.291	70.09	16.12	1.736	892	0
6/12/2014 23:45	68125	15	163	5.91	93.2	10.8	8.41	90	7.163	11.28	86.7	5.128	21.53	21.55	21.2	0.017	-0.328	70.9	16.04	1.77	892	0
6/13/2014 0:00	68126	15	164	5.976	95.5	11.62	8.4	93.1	8.71	11.05	90.2	5.694	21.43	21.41	21.04	-0.018	-0.387	71.38	16.05	1.659	892	0
6/13/2014 0:15	68127	15	164	5.826	97.2	12.79	8.24	94.2	8.47	10.71	91.7	6.251	21.35	21.31	20.92	-0.045	-0.437	71.66	16.04	1.697	892	0
6/13/2014 0:30	68128	15	164	5.532	102.2	13.89	7.655	97.8	10.65	10.04	94	8.73	21.23	21.18	20.79	-0.049	-0.445	72.24	16.05	1.425	892	0
6/13/2014 0:45	68129	15	164	5.58	111.7	15.2	8.19	107.2	10.15	10.4	104.4	7.423	21.12	21.09	20.69	-0.032	-0.426	72.88	16.08	1.49	893	0
6/13/2014 1:00	68130	15	164	4.616	114.5	14.27	6.847	111	9.78	8.95	107.5	6.699	20.95	20.95	20.57	-0.001	-0.38	73.69	16.09	1.427	893	0
6/13/2014 1:15	68131	15	164	3.587	119.3	13.74	5.314	114.4	9.39	7.602	109.7	5.952	20.8	20.82	20.48	0.029	-0.32	74.54	16.12	1.051	893	0
6/13/2014 1:30	68132	15	164	2.711	125.4	16.48	4.024	118.9	11.32	5.76	113.6	9.05	20.69	20.73	20.4	0.035	-0.293	75.44	16.21	1.092	893	0
6/13/2014 1:45	68133	15	164	2.393	125.8	14.33	3.592	121.8	10.08	4.926	117.5	7.774	20.79	20.75	20.38	-0.047	-0.413	75.6	16.34	0.973	893	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/13/2014 2:00	68134	15	164	2.938	115.1	16.3	4.239	111.3	12.8	5.693	111.1	9.17	21	20.89	20.46	-0.114	-0.54	75.27	16.47	1.028	893	0
6/13/2014 2:15	68135	15	164	3.381	105.6	16.36	4.919	101.8	12.21	6.286	98	9.51	20.87	20.83	20.42	-0.046	-0.454	75.57	16.42	0.995	893	0
6/13/2014 2:30	68136	15	164	2.787	94.1	12.98	3.961	92.4	10.6	5.152	91	8.35	20.54	20.6	20.27	0.065	-0.269	77.04	16.39	0.958	893	0
6/13/2014 2:45	68137	15	164	2.323	104.8	13.98	3.44	101.8	10.06	4.808	99.2	8.67	20.31	20.37	20.07	0.067	-0.236	78.19	16.4	0.923	893	0
6/13/2014 3:00	68138	15	164	2.053	106.4	14.68	3.081	104.5	10.17	4.643	100.2	6.65	20.36	20.31	19.97	-0.043	-0.389	78.38	16.49	0.957	893	0
6/13/2014 3:15	68139	15	164	2.312	97.6	16.32	3.11	94.8	12.6	4.156	94.7	8.36	20.47	20.36	19.94	-0.114	-0.535	77.58	16.44	0.859	893	0
6/13/2014 3:30	68140	15	164	2.207	102.4	14.11	3.127	99.5	9.77	3.982	97.8	8.8	20.54	20.4	19.97	-0.136	-0.574	77.41	16.47	0.898	893	0
6/13/2014 3:45	68141	15	164	2.299	92.3	16.36	3.198	88.1	11.58	3.882	86	7.777	20.56	20.41	19.95	-0.154	-0.609	77.46	16.5	0.823	893	0
6/13/2014 4:00	68142	15	164	2.461	88.3	13.32	3.401	83.9	10.75	4.221	84	8.32	20.58	20.42	19.96	-0.159	-0.619	77.95	16.62	0.972	893	0
6/13/2014 4:15	68143	15	164	2.864	90.4	12.17	4.103	86.4	8.5	5.156	84.3	5.007	20.61	20.48	20.02	-0.137	-0.595	77.73	16.61	0.968	893	0
6/13/2014 4:30	68144	15	164	2.799	81.5	13.37	3.882	79.19	9.54	4.988	79.42	6.821	20.54	20.45	20.02	-0.087	-0.518	77.84	16.55	1.045	893	0
6/13/2014 4:45	68145	15	164	2.659	80.1	11.54	3.623	75.39	9.23	4.542	73.34	6.274	20.51	20.41	19.99	-0.101	-0.522	77.86	16.53	1.364	893	0
6/13/2014 5:00	68146	15	164	2.524	83.4	12.9	3.547	79.04	10.11	4.6	76.77	8.69	20.52	20.39	19.95	-0.132	-0.578	77.64	16.5	4.301	893	0
6/13/2014 5:15	68147	15	164	2.53	101.1	15.78	3.613	93.6	13.39	4.68	91.5	10.16	20.58	20.44	19.98	-0.142	-0.599	77.35	16.5	12.62	893	0
6/13/2014 5:30	68148	15	164	3.183	115.2	14	4.503	109.6	9.94	5.772	108.5	10.19	20.56	20.41	19.94	-0.149	-0.618	77.18	16.44	11.77	893	0
6/13/2014 5:45	68149	15	164	3.002	113.3	13.58	4.393	108.4	9.53	5.5	105.2	8.36	20.62	20.47	19.99	-0.157	-0.628	77.24	16.51	13.2	893	0
6/13/2014 6:00	68150	15	164	3.379	109.6	13.18	4.889	105	8.74	6.238	101.6	6.171	20.62	20.47	19.99	-0.155	-0.637	77.46	16.56	11.81	893	0
6/13/2014 6:15	68151	15	164	3.725	113.9	12.19	5.348	109.2	7.575	6.801	104.9	4.611	20.67	20.49	19.99	-0.181	-0.686	77.66	16.65	30.84	893	0
6/13/2014 6:30	68152	15	164	3.583	117.7	14.13	5.046	112.9	10.09	6.364	109.6	7.525	20.88	20.65	20.1	-0.232	-0.772	77.58	16.83	61.63	894	0
6/13/2014 6:45	68153	15	164	3.985	118.3	13.24	5.778	113.6	9.63	7.253	108.2	5.893	20.82	20.57	20	-0.253	-0.823	78.34	16.93	52.9	894	0
6/13/2014 7:00	68154	15	164	4.395	111.7	11.87	6.358	108.1	7.545	8.11	106	5.689	20.77	20.52	19.94	-0.25	-0.824	78.9	16.99	72.06	893	0
6/13/2014 7:15	68155	15	164	4.522	123.4	13.2	6.439	117.3	8.71	8.07	113.6	5.655	20.91	20.55	19.92	-0.362	-0.993	79.22	17.2	122.6	893	0
6/13/2014 7:30	68156	15	164	4.144	113.3	12.24	5.902	108.3	7.941	7.192	105.7	5.964	20.68	20.34	19.72	-0.343	-0.968	80.8	17.29	98.2	894	0
6/13/2014 7:45	68157	15	164	4.032	110.7	12.13	5.597	107.6	7.81	7.099	105	4.366	20.62	20.22	19.54	-0.401	-1.082	82.8	17.6	121.9	894	0
6/13/2014 8:00	68158	15	164	4.251	123.9	12.89	5.91	119.1	8.59	7.009	115.4	4.867	20.85	20.31	19.63	-0.543	-1.224	82.8	17.83	201.7	894	0
6/13/2014 8:15	68159	15	164	4.091	131.4	12.38	5.673	126.3	7.951	6.316	122.4	6.201	20.88	20.39	19.8	-0.498	-1.085	83.5	18	139.1	893	0
6/13/2014 8:30	68160	15	164	3.222	125.1	14.14	4.569	120	9.33	5.58	117.3	8.73	21.32	20.77	20.13	-0.545	-1.191	82	18.14	210.5	893	0
6/13/2014 8:45	68161	15	164	3.24	127	20.43	4.353	124	14.81	5.092	121.4	12.8	22.41	21.58	20.87	-0.824	-1.535	76.79	18.14	467	893	0
6/13/2014 9:00	68162	15	164	2.861	153.2	19.09	3.853	146.4	16.54	4.5	141.5	11.97	23.15	22.28	21.57	-0.872	-1.58	72.17	17.88	427.9	893	0
6/13/2014 9:15	68163	15	164	2.589	150.9	23.11	3.425	146.4	17.95	4.004	141.4	13.03	23.48	22.77	22.07	-0.711	-1.402	69.52	17.6	368.2	893	0
6/13/2014 9:30	68164	15	164	2.753	157.8	21.87	3.577	151.5	19.04	4.283	148.9	18.69	24.02	23.17	22.41	-0.847	-1.61	67.01	17.53	473.1	893	0
6/13/2014 9:45	68165	15	164	2.548	156.4	22.31	3.303	149.6	18.76	3.76	144.2	16.62	23.98	23.27	22.65	-0.713	-1.332	66.02	17.26	356.1	893	0
6/13/2014 10:00	68166	15	164	2.327	146.4	19.89	3.067	142	15.34	3.865	139	10.52	24.82	23.82	23.03	-0.998	-1.785	63.37	17.41	844	893	0
6/13/2014 10:15	68167	15	164	3.046	157.8	22.81	3.952	153	18.63	4.582	145.9	13.36	26.1	24.61	23.71	-1.487	-2.385	59.09	17.49	1093	892	0
6/13/2014 10:30	68168	15	164	3.367	144.7	22.21	4.286	139.5	19.29	5.279	141	14.46	26.39	25.03	24.15	-1.358	-2.237	57.07	17.22	995	892	0
6/13/2014 10:45	68169	15	164	3.583	174.2	27.3	4.443	168.7	21.61	4.951	160	20.33	26.81	25.43	24.51	-1.374	-2.299	55.82	17.26	1144	892	0
6/13/2014 11:00	68170	15	164	3.917	161.7	27.69	4.894	155.1	25.86	5.676	147.2	20.24	27.26	25.79	24.89	-1.474	-2.367	53.88	17.12	1150	891	0
6/13/2014 11:15	68171	15	164	3.889	157.4	18.3	5.005	152.2	16.94	6.126	149.7	15.45	28.19	26.74	25.7	-1.449	-2.496	51.53	17.28	1128	891	0
6/13/2014 11:30	68172	15	164	3.947	151.8	26.65	5.093	146.4	23.13	5.761	142.3	18.07	28.47	26.86	25.91	-1.61	-2.561	49.88	17.02	1203	891	0
6/13/2014 11:45	68173	15	164	3.491	175.1	22.26	4.367	167.3	18.42	5.095	162.7	12.74	28.77	27.26	26.24	-1.502	-2.525	48.96	17	1214	890	0
6/13/2014 12:00	68174	15	164	3.415	170.7	23.07	4.264	165.7	18.85	4.984	160.5	15.52	29.39	27.87	26.93	-1.514	-2.461	47.5	17.09	1217	890	0
6/13/2014 12:15	68175	15	164	2.72	184.1	33.81	3.488	176.9	25.1	3.89	164.3	30.19	29.77	28.45	27.52	-1.32	-2.25	46.26	17.01	1205	890	0
6/13/2014 12:30	68176	15	164	3.451	180	25.49	4.373	173.1	20.77	4.732	168.4	18.89	29.93	28.58	27.7	-1.344	-2.229	45.21	16.79	1217	890	0
6/13/2014 12:45	68177	15	164	3.902	161.7	26.17	5.137	157.4	22.14	6.045	154.9	16.8	30.86	29.27	28.2	-1.589	-2.659	42.81	16.78	1197	889	0
6/13/2014 13:00	68178	15	164	3.625	184.8	21.53	4.615	177.1	20.09	5.534	171.3	15.46	31.18	29.76	28.72	-1.422	-2.463	41.63	16.63	1199	889	0
6/13/2014 13:15	68179	15	164	3.973	169.1	29.82	4.988	162.8	27.93	5.99	158.4	23.95	31.47	29.96	29	-1.509	-2.469	41.18	16.71	1180	889	0
6/13/2014 13:30	68180	15	164	4.052	167.3	20.07	5.152	160.5	16.96	6.099	156.6	13.77	31.88	30.32	29.31	-1.559	-2.567	39.97	16.6	1187	889	0
6/13/2014 13:45	68181	15	164	4.102	149.9	16.58	5.507	144.3	11.45	6.277	139.7	11.38	32.39	30.65	29.7	-1.746	-2.693	38.32	16.4	1168	888	0
6/13/2014 14:00	68182	15	164	4.393	156.9	22.19	5.824	150.2	19.41	7.109	148.6	17.25	32.97	31.34	30.23	-1.624	-2.735	36.43	16.12	1159	888	0
6/13/2014 14:15	68183	15	164	4.145	146.5	19.06	5.653	141.8	14.53	6.953	142.6	12.99	33.22	31.58	30.52	-1.638	-2.701	35.47	15.92	1117	888	0
6/13/2014 14:30	68184	15	164	4.026	179.4	21.16	5.193	174.1	19.94	5.999	169.5	18.09	33.34	32.14	31.02	-1.208	-2.324	33.46	15.11	929	887	0
6/13/2014 14:45	68185	15	164	3.656	162.4	22.81	4.704	157.1	20.27	5.486	151.2	16.04	33.02	31.97	31.06	-1.046	-1.955	33.98	15.07	722.3	887	0
6/13/2014 15:00	68186	15	164	3.338	175.2	24.98	4.277	168.5	21.48	5.115	163.4	13.92	33.03	32.16	31.24	-0.873	-1.794	32.98	14.62	777.4	887	0
6/13/2014 15:15	68187	15	164	4.087	157.6	23.24	5.276	151.2	19.82	6.184	150.5	19.5	33.87	32.67	31.67	-1.192	-2.198	31.64	14.7	1015	887	0
6/13/2014 15:30	68188	15	164	4.115	166	20.06	5.441	159.6	15.24	6.267	156.7	12.36	33.77	32.68	31.78	-1.093	-1.99	29.21	13.38	712.9	886	0
6/13/2014 15:45	68189	15	164	3.389	173.5	16.71	4.61	168	12.91	5.497	163.2	10.58	32.97	32.55	31.9	-0.418	-1.068	29.72	12.96	239.5	886	0
6/13/2014 16:00	68190	15	164	3.934	170.4	14.61	5.362	165.3	11.72	6.661	162.5	10.03	32.7	32.51	31.92	-0.19	-0.779	30.26	13.01	131.4	886	0
6/13/2014 16:15	68191	15	164	3.376	169.9	14.56	4.757	164.2	12.04	6.238	159	8.56	32.46	32.47	31.97	0.001	-0.49	30.77	13.06	77.45	886	0
6/13/2014 16:30	68192	15	164	3.218	171.4	16.43	4.462	164.9	15.12	5.67	161.1	13.07	32.38	32.48	32.07	0.102	-0.312	31.13	13.17	56.45	886	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/13/2014 16:45	68193	15	164	2.503	187.9	10.65	3.601	181.8	8.61	4.825	178.2	6.365	32.34	32.58	32.24	0.247	-0.095	29.43	12.27	35.38	887	0
6/13/2014 17:00	68194	15	164	1.487	178.3	25.93	2.212	180.6	17.99	3.19	178.8	16.41	32.15	32.48	32.18	0.331	0.025	29.76	12.28	16.64	887	0
6/13/2014 17:15	68195	15	164	2.124	161.1	12.75	3.149	160.4	9.47	4.553	164.1	7.114	31.79	32.17	31.95	0.375	0.161	31.95	13.06	8.83	886	0
6/13/2014 17:30	68196	15	164	1.614	198.6	63.69	2.49	197.1	59.87	3.517	197.3	52.98	31.7	32.06	31.81	0.361	0.112	31.81	12.9	4.848	886	0
6/13/2014 17:45	68197	15	164	8.91	347.8	25.24	13.65	342.8	21.07	16.4	336.1	21.84	23.46	23.65	24.35	0.195	0.896	58.5	14.32	10.66	886	5.588
6/13/2014 18:00	68198	15	164	9.05	47.52	14.29	14.17	42.65	9.96	18.63	41.45	8.65	18.16	17.4	17.3	-0.765	-0.861	78.46	14.36	140.4	887	5.842
6/13/2014 18:15	68199	15	164	8.81	68.53	17.97	13.43	63.02	15.53	18.81	59.43	12.82	19.24	19.18	19.55	-0.063	0.303	75.41	14.75	115.6	886	0.254
6/13/2014 18:30	68200	15	164	7.013	88.1	10.74	10.37	84.3	7.372	15.98	80.7	3.445	20.22	20.8	22.1	0.573	1.88	69.3	14.43	36.59	886	0
6/13/2014 18:45	68201	15	164	5.677	96.1	14.73	8.26	92.3	10.04	13.1	86.7	6.729	21.5	22.2	24.06	0.703	2.564	59.28	13.24	6.465	886	0
6/13/2014 19:00	68202	15	164	3.417	118.4	24.21	5.58	113.8	18.14	9.41	106.2	6.808	21.82	22.5	23.59	0.679	1.765	58.48	13.34	4.113	887	0
6/13/2014 19:15	68203	15	164	7.487	320.9	12.99	10.2	318.4	13.65	13.16	315.4	21.86	21.79	22.16	22.23	0.367	0.436	64.13	14.72	1.72	890	0
6/13/2014 19:30	68204	15	164	6.491	320.8	13.56	8.65	316.8	11.5	10.79	309.6	7.879	19.24	19.57	19.46	0.334	0.22	82.5	16.17	1.284	891	2.794
6/13/2014 19:45	68205	15	164	5.182	27.1	33.77	8.05	20.28	31.87	10.94	7.995	31.75	18.74	18.88	18.58	0.144	-0.155	90.1	17.1	1.851	890	0.508
6/13/2014 20:00	68206	15	164	3.854	58.02	27.27	5.637	54.33	21.48	7.827	44.04	12.97	19.08	19.33	18.92	0.25	-0.16	87.9	17.04	1.407	889	0
6/13/2014 20:15	68207	15	164	2.077	36.48	41.79	3.134	33.09	30.41	4.668	33.56	21.15	19.26	19.58	19.39	0.322	0.129	86.4	16.96	0.908	890	0
6/13/2014 20:30	68208	15	164	2.628	79.16	16.21	3.906	71.01	13.66	5.586	58.61	9.95	19.3	19.58	19.61	0.28	0.31	86.7	17.05	1.037	890	0
6/13/2014 20:45	68209	15	164	2.01	99.1	16.05	3.218	91	11.92	6.523	71.91	8.31	19.44	19.71	21.15	0.271	1.716	85.8	17.01	1.138	890	0
6/13/2014 21:00	68210	15	164	2.873	121.5	22.49	4.573	111.5	18.82	7.572	93.4	14.47	19.94	20.5	22.14	0.569	2.208	81.9	16.76	1.233	890	0
6/13/2014 21:15	68211	15	164	2.137	120.3	18.25	3.569	114.9	12.95	5.93	103.6	10.25	20.41	21.22	22.41	0.808	2.001	75.93	16.03	1.012	891	0
6/13/2014 21:30	68212	15	164	1.562	131.5	25.08	2.908	123.9	16.07	5.694	107.2	10.9	19.99	20.56	21.88	0.567	1.883	80.3	16.51	1.171	891	0
6/13/2014 21:45	68213	15	164	2.61	121.3	12.66	4.198	115	8.13	6.969	102.8	5.925	20.25	20.74	21.39	0.484	1.138	77.8	16.26	1.185	891	0
6/13/2014 22:00	68214	15	164	3.579	108.8	14.03	5.283	104.2	8.95	7.94	98.8	4.015	19.85	20.22	20.38	0.372	0.533	77.25	15.76	1.154	890	0
6/13/2014 22:15	68215	15	164	2.465	119.7	13.16	4.016	114.2	8.36	7.375	103.3	3.432	19.42	19.83	20.7	0.41	1.273	81.3	16.15	1.104	890	0
6/13/2014 22:30	68216	15	164	2.465	115	12.65	4.174	110.1	7.059	7.877	106.4	3.648	19.5	20.07	22.5	0.564	2.996	80.3	16.03	1.284	889	0
6/13/2014 22:45	68217	15	164	2.425	127.4	11.04	4.261	122.2	6.56	8.05	123.3	5.557	19.51	20.14	24.16	0.628	4.646	80.2	16.03	1.316	889	0
6/13/2014 23:00	68218	15	164	1.736	128.1	15.37	3.431	122	6.757	6.556	140.9	4.849	19.28	20.01	24.95	0.738	5.677	83.1	16.34	1.089	889	0
6/13/2014 23:15	68219	15	164	3.287	162.1	9.46	5.483	150.5	7.071	9.57	155.7	3.356	19.86	20.73	25.03	0.865	5.162	79.36	16.18	1.543	889	0
6/13/2014 23:30	68220	15	164	4.21	170.7	9.75	6.397	164.5	6.504	11.56	159.7	2.385	20.58	21.23	23.61	0.644	3.021	71.72	15.32	1.763	888	0
6/13/2014 23:45	68221	15	164	4.224	171.7	10.3	6.405	167.9	7.251	10.7	163	3.521	21.02	21.62	22.69	0.597	1.663	68.31	14.98	1.447	888	0
6/14/2014 0:00	68222	15	165	4.091	160.3	10.67	6.174	154.3	7.734	9.56	150.7	4.959	21.12	21.65	22.01	0.524	0.884	66.76	14.72	1.571	888	0
6/14/2014 0:15	68223	15	165	4.833	169.7	11.03	7.039	163.4	8.28	10.04	156.6	6.118	20.98	21.41	21.53	0.432	0.551	67.04	14.65	1.614	888	0
6/14/2014 0:30	68224	15	165	3.767	170.6	11.5	5.548	164.9	8.88	8.81	161.2	5.696	21.17	21.58	21.78	0.414	0.616	66.26	14.65	1.546	888	0
6/14/2014 0:45	68225	15	165	4.175	163	11.39	6.252	156.5	7.683	9.02	152.6	5.364	21.3	21.76	21.85	0.459	0.547	65.14	14.51	1.363	888	0
6/14/2014 1:00	68226	15	165	4.153	163.7	10.98	5.98	158.6	7.826	8.7	155.9	5.357	21.22	21.64	21.7	0.427	0.488	64.88	14.36	1.341	888	0
6/14/2014 1:15	68227	15	165	4.092	171.4	11.14	5.955	165.5	8.85	8.42	160.5	6.289	20.98	21.47	21.54	0.49	0.565	65.9	14.38	1.568	888	0
6/14/2014 1:30	68228	15	165	3.067	167.2	10.58	4.628	162.1	7.282	7.342	160.8	4.116	20.63	21.1	21.35	0.474	0.717	68.39	14.62	1.265	888	0
6/14/2014 1:45	68229	15	165	2.743	167.3	12.32	4.133	162.9	7.821	6.452	160.7	6.479	20.76	21.24	21.34	0.483	0.584	67.41	14.52	1.244	889	0
6/14/2014 2:00	68230	15	165	2.895	162.4	11.86	4.536	156.5	7.955	6.758	154.9	5.867	20.55	21.07	21.21	0.524	0.663	69.11	14.71	1.18	889	0
6/14/2014 2:15	68231	15	165	3.055	154.7	11.12	4.864	149	6.698	7.189	147.5	3.842	20.26	20.78	21.03	0.511	0.766	71.09	14.87	1.202	888	0
6/14/2014 2:30	68232	15	165	2.747	155.1	9.97	4.654	149.4	6.018	7.503	148.3	2.858	19.96	20.49	20.93	0.535	0.972	73.3	15.05	1.367	888	0
6/14/2014 2:45	68233	15	165	2.917	148.9	11.74	4.713	144.2	7.116	7.984	145.2	3.657	19.84	20.29	20.77	0.45	0.925	74.32	15.16	1.527	888	0
6/14/2014 3:00	68234	15	165	2.869	151.3	12.79	4.593	146.1	7.918	7.564	144.2	3.809	19.63	20.03	20.27	0.397	0.638	76.2	15.34	1.296	888	0
6/14/2014 3:15	68235	15	165	3.04	160.3	11.07	4.791	154.5	7.129	7.413	151.9	3.76	19.5	19.87	19.99	0.376	0.495	77.46	15.47	1.279	888	0
6/14/2014 3:30	68236	15	165	3.635	163.1	9.82	5.517	156.2	6.228	7.869	152.4	4.067	19.36	19.66	19.61	0.296	0.247	79	15.65	1.312	888	0
6/14/2014 3:45	68237	15	165	4.298	158.5	10.16	6.067	153.2	7.143	8.46	149.6	4.975	19.31	19.5	19.34	0.194	0.029	80	15.8	1.49	888	0
6/14/2014 4:00	68238	15	165	4.425	155.2	12.01	6.458	149	7.383	8.95	144.8	5.025	19.24	19.43	19.23	0.188	-0.014	80.9	15.91	1.461	888	0
6/14/2014 4:15	68239	15	165	4.366	152.2	11.62	6.441	146.1	7.758	9.2	141.8	5.172	19.12	19.29	19.1	0.171	-0.023	82.1	16.02	1.442	888	0
6/14/2014 4:30	68240	15	165	4.167	149	11.59	6.362	143.6	7.485	8.75	139.9	5.863	19.07	19.24	19.03	0.175	-0.037	82.3	16	1.559	888	0
6/14/2014 4:45	68241	15	165	3.897	148.4	12.36	5.893	142.5	7.601	8.08	138.6	5.367	18.93	19.12	18.92	0.188	-0.008	83.1	16.01	1.769	888	0
6/14/2014 5:00	68242	15	165	3.929	154.2	12.28	5.935	147.4	7.883	8.59	143.7	5.771	18.93	19.14	19.03	0.212	0.094	82.8	15.97	5.605	888	0
6/14/2014 5:15	68243	15	165	4.228	157.3	11.14	6.294	150.8	7.292	9.1	147.7	4.569	19.06	19.26	19.16	0.2	0.102	81.8	15.88	17.26	888	0
6/14/2014 5:30	68244	15	165	4.534	160	12.28	6.664	154.3	8.21	9.21	151.3	5.492	19.57	19.69	19.54	0.118	-0.029	78.4	15.73	78.4	887	0
6/14/2014 5:45	68245	15	165	4.515	167.5	10.94	6.329	162.2	7.756	8.67	160.1	5.658	20.19	20.28	20.12	0.084	-0.076	74.47	15.52	147.8	887	0
6/14/2014 6:00	68246	15	165	3.984	172.3	11.89	5.68	167.9	9.27	7.582	164.9	5.759	20.77	20.81	20.58	0.038	-0.197	71.33	15.41	204.6	887	0
6/14/2014 6:15	68247	15	165	3.866	182.9	11.67	5.456	178.1	7.834	7.372	174.4	5.221	21.48	21.48	21.19	-0.003	-0.293	67.84	15.31	242.1	887	0
6/14/2014 6:30	68248	15	165	3.466	181	10.51	4.824	176.2	7.25	6.461	173.8	5.459	22	21.95	21.59	-0.055	-0.416	65.9	15.35	295.4	887	0
6/14/2014 6:45	68249	15	165	3.845	189.2	11.19	5.346	184.9	7.189	6.412	180.1	6.038	22.61	22.46	22.05	-0.144	-0.561	62.92	15.21	359.4	887	0
6/14/2014 7:00	68250	15	165	3.475	187.1	12.38	4.782	184.3	9.95	6.157	182.7	7.44	23.17	22.93	22.44	-0.241	-0.73	61.31	15.34	430.6	887	0
6/14/2014 7:15	68251	15	165	3.744	196	13.16	4.896	190.4	10.2	6.041	190.1	10.33	23.69	23.41	22.88	-0.28	-0.804	58.57	15.11	490.6	887	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/14/2014 7:30	68252	15	165	3.551	210.5	12.42	4.816	206.4	9.5	5.776	204	8.2	24.28	23.95	23.38	-0.327	-0.898	56.61	15.13	560.6	887	0
6/14/2014 7:45	68253	15	165	4.091	214.4	12.42	5.504	210.3	8.18	6.501	206.4	6.462	24.73	24.36	23.82	-0.371	-0.911	54.03	14.82	627.1	887	0
6/14/2014 8:00	68254	15	165	3.652	215.3	12.86	4.92	211.3	10.58	5.893	209	6.728	25.48	25.04	24.42	-0.447	-1.063	52.06	14.94	701	887	0
6/14/2014 8:15	68255	15	165	3.897	219.7	12.45	5.023	215.8	10.66	5.936	211.2	7.058	25.99	25.51	24.88	-0.477	-1.115	49.35	14.58	779.4	887	0
6/14/2014 8:30	68256	15	165	3.77	222.3	12.84	5.011	218.9	9.87	6.159	214	6.928	26.33	25.87	25.2	-0.452	-1.121	48.57	14.64	738.2	887	0
6/14/2014 8:45	68257	15	165	3.514	225.2	12.93	4.537	219.1	11.59	5.527	214.1	7.697	27.03	26.46	25.72	-0.566	-1.305	47.21	14.84	866	887	0
6/14/2014 9:00	68258	15	165	3.892	222.6	14.35	5.114	217.6	12.15	6.23	215.8	8	27.68	27.1	26.37	-0.578	-1.313	44.2	14.41	903	887	0
6/14/2014 9:15	68259	15	165	4.212	228.3	15.43	5.408	225	14.69	6.319	221.6	12.18	28.2	27.67	26.93	-0.536	-1.27	41.91	14.06	957	886	0
6/14/2014 9:30	68260	15	165	4.057	230.9	14.56	5.362	226.2	13.37	6.429	223.6	10.36	28.62	27.97	27.25	-0.649	-1.368	41.53	14.29	1018	886	0
6/14/2014 9:45	68261	15	165	4.121	229.3	16.76	5.398	224.7	14.77	6.218	223.1	10.92	29.3	28.57	27.82	-0.735	-1.487	40.57	14.54	1054	886	0
6/14/2014 10:00	68262	15	165	3.973	229.9	16.55	5.132	226.7	13.39	6.219	224.2	10.84	30.04	29.38	28.61	-0.664	-1.43	38.05	14.21	1087	886	0
6/14/2014 10:15	68263	15	165	4.322	235.7	18.52	5.74	231.3	17	6.851	229.4	14.57	31.17	30.51	29.84	-0.667	-1.337	31.88	12.46	1121	886	0
6/14/2014 10:30	68264	15	165	3.901	233.7	16.04	5.031	228.5	15.42	6.18	223.5	12.13	31.95	31.3	30.5	-0.646	-1.442	30.07	12.26	1156	885	0
6/14/2014 10:45	68265	15	165	3.799	244.8	17.95	5.148	243.1	14.22	6.141	239.8	11.86	32.58	31.9	31.21	-0.683	-1.368	27.23	11.3	1181	885	0
6/14/2014 11:00	68266	15	165	4.253	237.1	16.95	5.481	236.3	15.02	6.758	235.9	13.04	33.3	32.69	31.85	-0.609	-1.452	25.25	10.77	1200	885	0
6/14/2014 11:15	68267	15	165	4.348	256.5	17.36	6.163	253.1	15.48	7.385	248	11.24	33.73	33.02	32.24	-0.708	-1.491	23.41	9.99	1216	885	0
6/14/2014 11:30	68268	15	165	4.795	264	15.13	6.943	261	12.91	8.4	256.6	8.36	34.11	33.36	32.48	-0.756	-1.63	22.17	9.5	1231	885	0
6/14/2014 11:45	68269	15	165	3.652	256.5	20.06	5.257	251	16.87	6.397	248.3	12.8	34.36	33.62	32.83	-0.733	-1.528	21.69	9.38	1240	885	0
6/14/2014 12:00	68270	15	165	4.313	267.2	15.21	6.314	264.7	11.93	7.546	260.5	8.66	34.92	34.07	33.29	-0.848	-1.631	20.52	9.02	1242	884	0
6/14/2014 12:15	68271	15	165	4.479	265.3	19.66	6.326	263.4	15.79	7.459	260.4	11.39	35.04	34.27	33.47	-0.769	-1.569	19.94	8.7	1250	884	0
6/14/2014 12:30	68272	15	165	3.457	269.7	23.5	4.727	267.7	21.14	5.56	260.3	16.2	34.97	34.3	33.58	-0.671	-1.387	20.41	8.98	1060	884	0
6/14/2014 12:45	68273	15	165	2.74	255.7	27.03	3.479	255	22.88	4.075	251.3	15.13	34.8	34.47	33.84	-0.323	-0.954	19.56	8.21	811	884	0
6/14/2014 13:00	68274	15	165	2.742	266	26.79	3.577	261	26.08	4.099	255.9	25.62	35.6	35.15	34.48	-0.454	-1.12	18.25	7.835	1052	883	0
6/14/2014 13:15	68275	15	165	2.831	300.9	33.63	3.536	297.3	29.5	3.752	283.3	18.05	35.79	35.16	34.51	-0.628	-1.285	17.71	7.555	1273	883	0
6/14/2014 13:30	68276	15	165	3.219	263.4	23.06	4.582	257.6	21.4	5.471	249.8	19.09	35.78	35.35	34.72	-0.425	-1.059	16.75	6.724	951	883	0
6/14/2014 13:45	68277	15	165	2.5	287.9	31.08	3.149	281.8	26.96	3.656	277	18.42	35.69	35.42	34.82	-0.269	-0.86	16.82	6.707	837	883	0
6/14/2014 14:00	68278	15	165	4.258	258.1	17.68	5.89	254.2	14.41	6.924	250	10.83	35.87	35.66	35.02	-0.207	-0.847	15.47	5.646	587.8	883	0
6/14/2014 14:15	68279	15	165	3.669	222.4	19.92	4.801	220.7	16.33	5.771	217.8	10.33	36.19	35.77	35.11	-0.412	-1.081	15.07	5.508	999	882	0
6/14/2014 14:30	68280	15	165	4.847	244.7	23.36	6.701	241.1	21.69	8.3	239.2	17.37	37.03	36.43	35.56	-0.603	-1.473	12.84	3.884	1078	882	0
6/14/2014 14:45	68281	15	165	3.429	261.7	17.8	4.878	260	16.61	5.597	255.6	16.5	36.42	36.15	35.54	-0.272	-0.888	12.62	3.176	711.1	882	0
6/14/2014 15:00	68282	15	165	5.077	253.3	15.93	7.208	249.8	13.96	8.74	244.5	13.69	36.91	36.52	35.8	-0.389	-1.108	12.27	3.151	873	882	0
6/14/2014 15:15	68283	15	165	4.193	251.2	16.57	5.994	249.2	13.44	6.891	248.2	9.29	36.37	36.17	35.59	-0.2	-0.778	13.02	3.574	626.2	882	0
6/14/2014 15:30	68284	15	165	4.046	264.1	17.12	5.917	261.3	13.62	6.946	255.9	11.33	36.63	36.38	35.78	-0.252	-0.846	13.41	4.196	730.9	882	0
6/14/2014 15:45	68285	15	165	5.244	247.8	17.8	7.245	243.7	16.48	8.87	240.1	13.86	37.05	36.69	35.99	-0.352	-1.053	12.58	3.593	866	882	0
6/14/2014 16:00	68286	15	165	4.812	238.8	16.76	6.407	237.5	13.39	7.638	234.9	12.45	36.89	36.66	35.96	-0.229	-0.93	11.9	2.699	697.2	881	0
6/14/2014 16:15	68287	15	165	4.297	260.5	18.55	6.377	258.1	16.21	7.893	255	14.12	36.89	36.61	35.96	-0.275	-0.925	12.9	3.842	728	881	0
6/14/2014 16:30	68288	15	165	3.851	252.2	18.12	5.62	248.2	15.66	6.921	240.1	13.48	36.14	36.26	35.76	0.121	-0.376	13.17	3.554	414.5	881	0
6/14/2014 16:45	68289	15	165	4.618	246.8	13.68	6.258	242.8	13.35	7.776	238.1	10.98	36.67	36.64	36.06	-0.035	-0.615	12.91	3.685	567.7	881	0
6/14/2014 17:00	68290	15	165	4.74	247.9	14.88	6.719	245.2	12.81	8.45	242.6	10.35	36.52	36.57	36	0.055	-0.52	12.54	3.152	521.9	881	0
6/14/2014 17:15	68291	15	165	3.948	254.1	15.52	5.756	251.3	12.46	7.06	243.6	12.08	36.37	36.47	35.97	0.109	-0.392	12.18	2.623	441.9	881	0
6/14/2014 17:30	68292	15	165	4.117	233.6	14.08	5.678	230.5	12.71	7.495	226.4	10.44	36.09	36.34	35.88	0.25	-0.21	12.61	2.891	359.9	881	0
6/14/2014 17:45	68293	15	165	4.918	251.6	15.15	6.943	249	12.17	8.88	245.1	10.56	35.97	36.28	35.89	0.315	-0.076	12.4	2.56	294.8	881	0
6/14/2014 18:00	68294	15	165	4.266	242.4	13.04	5.928	239.3	10.09	7.515	233	8.8	35.69	36.15	35.81	0.46	0.116	11.96	1.854	228.3	881	0
6/14/2014 18:15	68295	15	165	4.07	242.2	10.08	5.521	240.4	8.45	7.396	236.5	6.716	35.32	35.92	35.66	0.592	0.34	12.22	1.853	164.7	881	0
6/14/2014 18:30	68296	15	165	3.347	246.9	11.3	4.795	243.3	8.5	6.804	240.9	6.169	34.9	35.61	35.48	0.712	0.588	13.01	2.402	112.3	881	0
6/14/2014 18:45	68297	15	165	2.869	234.2	24.19	4.325	233	22.5	6.799	232.3	18.21	34.1	35.05	35.18	0.951	1.078	14.51	3.33	62.73	881	0
6/14/2014 19:00	68298	15	165	3.739	181.1	13.03	5.518	176.2	10.59	7.751	174.7	9.87	32.15	32.95	32.95	0.802	0.801	20.74	6.835	23.01	881	0
6/14/2014 19:15	68299	15	165	3.895	174.8	11.58	5.664	169.6	8.75	7.725	166.9	6.777	31.38	32.05	32.05	0.674	0.676	22.49	7.445	5.174	881	0
6/14/2014 19:30	68300	15	165	3.699	173.3	10.81	5.626	168.5	7.548	8.38	165.6	4.555	30.77	31.55	31.86	0.78	1.091	23.44	7.548	1.638	882	0
6/14/2014 19:45	68301	15	165	3.566	170.7	12.8	5.368	164.7	10.06	8.37	162.3	5.89	30.5	31.25	31.53	0.749	1.032	24.14	7.755	1.271	882	0
6/14/2014 20:00	68302	15	165	4.368	169	10.5	6.383	163.8	7.214	9.35	161.1	5.136	30.72	31.33	31.49	0.614	0.772	23.83	7.748	1.51	882	0
6/14/2014 20:15	68303	15	165	4.521	166.6	11.62	6.682	161.1	7.547	9.8	159.2	4.806	30.63	31.2	31.34	0.578	0.715	24.56	8.11	1.514	882	0
6/14/2014 20:30	68304	15	165	4.721	170.5	10.72	6.949	165.9	7.337	9.99	164.9	5.117	30.48	31	31.06	0.526	0.587	25.25	8.4	1.684	882	0
6/14/2014 20:45	68305	15	165	5.095	176.6	10.75	7.261	171.3	7.718	10.43	168.1	5.221	30.18	30.72	30.78	0.534	0.597	26.25	8.72	1.51	883	0
6/14/2014 21:00	68306	15	165	6.462	173.9	11.09	9.12	168.1	8.2	12.48	164.7	5.482	29.84	30.28	30.2	0.443	0.364	26.55	8.6	1.628	883	0
6/14/2014 21:15	68307	15	165	7.077	172.2	11.33	9.87	167.3	8.54	12.83	164.7	6.146	29.04	29.38	29.19	0.34	0.148	27.13	8.23	2.056	883	0
6/14/2014 21:30	68308	15	165	6.582	170.2	11.44	9.16	165.1	7.784	11.84	160.1	5.918	28.3	28.65	28.48	0.357	0.181	30.07	9.12	1.875	883	0
6/14/2014 21:45	68309	15	165	6.25	163.2	11.54	8.75	156.9	7.583	11.62	153.8	5.551	27.68	28.07	27.9	0.385	0.216	32.34	9.67	1.664	884	0
6/14/2014 22:00	68310	15	165	6.161	162.9	11.02	8.68	157.3	8.05	11.57	153.9	5.549	27.09	27.45	27.32	0.362	0.227	35.07	10.37	1.89	884	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/14/2014 22:15	68311	15	165	5.332	163.2	10.94	7.715	157	7.775	10.58	155	5.259	26.56	26.96	26.89	0.404	0.328	37.25	10.8	1.633	884	0
6/14/2014 22:30	68312	15	165	4.021	165.5	20.37	5.905	161.6	14.94	8.46	159.3	10.64	26.25	26.67	26.54	0.417	0.281	39.32	11.35	1.338	884	0
6/14/2014 22:45	68313	15	165	4.579	167.5	11.19	6.683	161.5	7.834	9.07	158.2	5.978	26.04	26.47	26.4	0.428	0.366	41.14	11.84	1.468	884	0
6/14/2014 23:00	68314	15	165	4.922	166.4	11.31	7.172	161.3	7.746	10.1	158.1	5.524	25.95	26.38	26.31	0.421	0.352	42.63	12.3	1.642	884	0
6/14/2014 23:15	68315	15	165	5.103	165.7	10.94	7.4	160.9	8.07	10.42	158.2	5.147	25.8	26.2	26.18	0.405	0.379	44.18	12.71	1.672	884	0
6/14/2014 23:30	68316	15	165	5.476	166.5	11.28	8.03	160.5	7.689	10.79	157	5.407	25.66	26.04	25.97	0.387	0.312	45.14	12.91	1.652	884	0
6/14/2014 23:45	68317	15	165	4.681	158.5	11.06	6.729	152.7	8.05	9.48	150.8	5.502	25.33	25.72	25.65	0.39	0.325	45.76	12.81	1.507	884	0
6/15/2014 0:00	68318	15	166	4.288	155.5	11.42	6.294	149.6	8.39	9.23	147.3	5.852	25.03	25.42	25.38	0.388	0.347	45.98	12.62	1.626	884	0
6/15/2014 0:15	68319	15	166	4.423	152.9	12.13	6.579	148.1	8.37	9.44	145.3	5.469	24.94	25.34	25.32	0.406	0.384	45.75	12.46	1.479	884	0
6/15/2014 0:30	68320	15	166	4.088	152.6	18.19	6.452	146.3	12.12	10.24	143.3	6.255	25.02	25.4	25.4	0.376	0.378	45.11	12.32	1.55	884	0
6/15/2014 0:45	68321	15	166	4.51	153.3	13.12	6.74	146.6	9.61	8.44	142.4	9.06	25.04	25.5	25.33	0.463	0.294	44.41	12.1	1.306	884	0
6/15/2014 1:00	68322	15	166	1.861	155	27.1	2.896	145.9	19.68	5.424	143.2	13.8	24.5	24.94	24.91	0.444	0.41	45.68	12.03	1.194	884	0
6/15/2014 1:15	68323	15	166	3.181	151.5	12.58	5.279	144.7	7.194	8.14	143.4	4.123	24.26	24.84	25.07	0.58	0.816	45.98	11.91	1.42	884	0
6/15/2014 1:30	68324	15	166	2.924	147.1	11.95	4.818	141.1	6.599	7.737	140	3.952	23.88	24.51	24.89	0.625	1.008	47.16	11.96	1.288	884	0
6/15/2014 1:45	68325	15	166	2.528	154.2	13.46	4.142	145.8	8.69	7.197	143.6	4.697	23.64	24.32	24.78	0.684	1.136	47.96	11.99	1.389	884	0
6/15/2014 2:00	68326	15	166	2.251	147.4	12.27	3.9	142	7.811	6.902	144.1	4.653	23.36	24.16	24.76	0.805	1.406	49.18	12.12	1.244	884	0
6/15/2014 2:15	68327	15	166	2.802	148.5	11.53	4.631	142.2	7.138	7.386	142.1	3.958	23.64	24.37	24.83	0.726	1.185	48.33	12.11	1.471	884	0
6/15/2014 2:30	68328	15	166	2.203	151.4	12.52	4.054	143.6	7.628	7.025	144.6	3.696	23.14	23.95	24.61	0.805	1.471	49.92	12.14	1.414	884	0
6/15/2014 2:45	68329	15	166	1.365	138.3	15.52	3.031	136.4	7.875	5.932	143.1	4.185	22.62	23.66	24.64	1.039	2.018	51.96	12.28	1.108	884	0
6/15/2014 3:00	68330	15	166	0.757	78.45	58.17	1.127	110	45.98	4.693	139.7	6.396	22.18	23.33	24.54	1.144	2.352	53.9	12.42	0.989	884	0
6/15/2014 3:15	68331	15	166	0.959	144.5	29.47	1.829	128.7	16.41	4.796	145.3	6.24	22.07	23.26	24.71	1.184	2.632	53.53	12.22	0.94	884	0
6/15/2014 3:30	68332	15	166	0.817	46.56	36.67	1.48	88.1	26.43	3.402	138	11.34	20.64	22.85	24.4	2.207	3.752	59.93	12.58	0.738	885	0
6/15/2014 3:45	68333	15	166	0.801	78.85	41.3	2.258	96	17.23	3.197	147.8	9.86	19.76	22.44	25.25	2.684	5.494	65.92	13.22	0.89	885	0
6/15/2014 4:00	68334	15	166	0.558	84.9	72.49	2.097	117.8	11.54	3.86	150.9	10.93	19.81	21.51	25.31	1.701	5.502	66.31	13.36	0.958	885	0
6/15/2014 4:15	68335	15	166	0.734	196.4	32.15	1.908	136.1	10.52	4.221	164.2	7.143	20.16	21.24	25.08	1.073	4.917	63.74	13.09	0.95	885	0
6/15/2014 4:30	68336	15	166	0.976	212.1	15.94	1.894	154.9	14.92	4.397	172.4	7.924	19.71	21.15	24.06	1.442	4.351	65.69	13.12	0.994	885	0
6/15/2014 4:45	68337	15	166	0.581	170.9	40.85	1.687	165.6	8.03	3.254	194.5	2.76	19.06	21.75	23.4	2.694	4.336	68.26	13.08	1.875	885	0
6/15/2014 5:00	68338	15	166	0.678	102	37.18	1.753	146.5	4.714	2.644	185	7.87	18.25	21.88	22.95	3.633	4.702	72.69	13.27	9.09	886	0
6/15/2014 5:15	68339	15	166	0.664	339.3	36.13	0.917	192.6	35.96	3.452	204.9	10.36	17.46	21.77	23.86	4.311	6.408	80.8	14.14	33.62	886	0
6/15/2014 5:30	68340	15	166	1	39.75	13.43	0.732	19.96	9.08	2.227	237.7	18.07	17.82	21.14	23.72	3.313	5.899	81.6	14.64	73.82	886	0
6/15/2014 5:45	68341	15	166	0.924	49.33	15.59	0.587	39.05	14.91	2.349	269.9	7.228	19.11	22.08	24.09	2.975	4.987	79.13	15.42	125.5	886	0
6/15/2014 6:00	68342	15	166	0.588	45.89	19.44	0.649	57.01	9.32	2.413	283.1	1.98	20.93	22.49	24.12	1.555	3.185	73.8	16.09	185.3	886	0
6/15/2014 6:15	68343	15	166	0.375	9.09	66.9	0.555	329.1	69.9	2.406	286	3.589	22.41	22.93	24.04	0.521	1.631	64.83	15.45	248.3	886	0
6/15/2014 6:30	68344	15	166	0.903	300.1	29.59	1.201	301.2	26.12	2.001	286.9	14.15	23.78	23.94	23.75	0.165	-0.028	52.34	13.44	312	886	0
6/15/2014 6:45	68345	15	166	1.468	317.5	16.33	1.651	316.9	16	1.956	310.6	10.51	24.07	24.2	23.93	0.127	-0.144	50.01	13.02	377.6	886	0
6/15/2014 7:00	68346	15	166	1.76	318.5	14.65	2.023	318.5	12.48	2.439	312.3	9.98	24.48	24.53	24.16	0.052	-0.32	49.73	13.31	444.2	887	0
6/15/2014 7:15	68347	15	166	2.268	314.2	14.75	2.511	311.4	10.73	2.892	307.8	8.79	24.97	24.84	24.36	-0.131	-0.612	48.99	13.53	510.5	887	0
6/15/2014 7:30	68348	15	166	2.458	320.8	15.5	3.014	317.4	13	3.455	311	11.28	25.63	25.38	24.83	-0.252	-0.798	46.19	13.23	577.8	887	0
6/15/2014 7:45	68349	15	166	3.303	315.7	14.89	3.928	314.1	10.35	4.418	309.1	7.08	26.06	25.76	25.18	-0.294	-0.883	42.9	12.49	643.2	887	0
6/15/2014 8:00	68350	15	166	3.432	309.6	16.33	3.959	306.2	11.81	3.625	301.5	7.412	26.56	26.09	25.45	-0.471	-1.113	42.35	12.75	704.8	887	0
6/15/2014 8:15	68351	15	166	3.294	306.8	13.98	3.514	304.4	10.08	3.418	301.2	7.831	27.03	26.49	25.83	-0.543	-1.204	39.82	12.23	763.8	887	0
6/15/2014 8:30	68352	15	166	3.11	318.1	13.89	3.585	314.4	11.74	3.582	307.5	10.99	27.57	27.13	26.48	-0.439	-1.091	32.34	9.56	823	887	0
6/15/2014 8:45	68353	15	166	2.542	325.9	21.52	2.961	322.9	16.6	3.517	318.2	15.38	27.85	27.31	26.6	-0.542	-1.247	33.45	10.32	878	887	0
6/15/2014 9:00	68354	15	166	2.418	324.3	20.2	2.885	323.6	17.7	3.446	321.3	17.43	28.31	27.84	27.17	-0.47	-1.132	31.98	10.04	930	887	0
6/15/2014 9:15	68355	15	166	2.025	346	49.41	2.483	338.4	38.05	3.02	340.9	31.23	29.14	28.61	27.95	-0.529	-1.191	28.23	8.85	980	887	0
6/15/2014 9:30	68356	15	166	2.084	359.6	29.85	2.796	354	23.37	3.421	347.4	15.84	30.13	29.34	28.52	-0.791	-1.613	24.85	7.866	1030	887	0
6/15/2014 9:45	68357	15	166	2.159	0.606	28.4	2.817	359.4	20.38	3.238	355.6	16.49	30.59	29.74	29.05	-0.846	-1.535	24.15	7.834	1073	887	0
6/15/2014 10:00	68358	15	166	1.733	4.548	28.85	2.268	359.6	22.45	2.712	347.5	23.33	30.96	30.28	29.68	-0.679	-1.286	23.18	7.54	1112	887	0
6/15/2014 10:15	68359	15	166	1.824	350	30.61	2.43	353.2	25.07	2.932	348.7	19.81	31.62	30.9	30.19	-0.716	-1.425	21.58	7.032	1142	887	0
6/15/2014 10:30	68360	15	166	1.9	335.5	41.81	2.335	332	32.92	2.741	329.2	22.72	32.49	31.91	31.12	-0.578	-1.371	17.42	4.624	1171	887	0
6/15/2014 10:45	68361	15	166	1.512	346	70.09	1.788	354.8	59.06	2.194	10.42	45.98	32.67	32.16	31.42	-0.51	-1.25	14.77	2.385	1199	887	0
6/15/2014 11:00	68362	15	166	1.863	10.48	45.65	2.287	8.3	38.08	2.636	3.664	32.55	33.11	32.49	31.67	-0.62	-1.441	14.55	2.59	1221	887	0
6/15/2014 11:15	68363	15	166	2.208	355.5	28.54	2.812	350.7	26.34	3.022	340.8	29.97	33.34	32.5	31.79	-0.839	-1.552	14.5	2.733	1235	887	0
6/15/2014 11:30	68364	15	166	2.521	276.7	43.33	3.002	273.4	35.89	3.168	269.5	34.15	33.5	32.93	32.28	-0.563	-1.222	13.27	1.604	1255	887	0
6/15/2014 11:45	68365	15	166	2.987	284.5	33	3.527	282.1	29.8	4.028	278.4	23.87	33.93	33.21	32.45	-0.725	-1.481	12.58	1.199	1263	887	0
6/15/2014 12:00	68366	15	166	2.378	289.3	34.4	2.831	282.2	29.14	3.022	279.7	24.9	34.15	33.54	32.83	-0.612	-1.321	13.03	1.854	1265	887	0
6/15/2014 12:15	68367	15	166	1.935	325.1	54.6	2.381	328.2	42.55	2.674	315.7	33.44	34.33	33.69	32.96	-0.648	-1.37	12.98	1.944	1262	887	0
6/15/2014 12:30	68368	15	166	2.213	274.7	34.23	2.841	270.2	23.06	3.403	258.1	21.3	34.43	33.87	33.16	-0.555	-1.268	12.09	1.012	1264	887	0
6/15/2014 12:45	68369	15	166	2.464	281.9	45.52	2.912	282.3	38.97	3.322	271.8	36.87	34.78	34.19	33.6	-0.59	-1.181	11.81	0.97	1251	887	0

WIPP Validated Metdata 6/2/14 - 6/16/14

Date & Time	Day	15 min	Juli date	2WS m/s	2WD Deg	2SD	10WS m/s	10WD Deg	10SD	50WS m/s	50WD Deg	50SD	2M T Deg C	10M T Deg C	50M T Deg C	10 DT	50 DT	RH %	DPT Deg C	SR	BP mB	prcp mm
6/15/2014 13:00	68370	15	166	2.694	228.3	39.27	3.568	224.4	36.73	4.208	224	31.66	35.22	34.36	33.45	-0.852	-1.761	11.75	1.226	1240	886	0
6/15/2014 13:15	68371	15	166	2.354	279.5	84.9	2.71	287.7	78.69	3.027	238.3	50.71	35.1	34.49	33.81	-0.611	-1.297	10.94	0.148	1220	886	0
6/15/2014 13:30	68372	15	166	2.039	265.4	43.61	2.427	260.1	38.98	2.799	244.2	33.85	35.12	34.64	33.96	-0.474	-1.155	11.11	0.386	1199	886	0
6/15/2014 13:45	68373	15	166	3.136	180.3	35.47	3.866	177.5	32.2	4.976	174.8	22.42	35.86	35.05	34.19	-0.816	-1.676	11.29	1.156	1176	886	0
6/15/2014 14:00	68374	15	166	2.908	237.9	37.64	3.606	232.3	32.57	4.418	224.7	20.2	35.94	35.26	34.4	-0.682	-1.54	10.95	0.804	1136	886	0
6/15/2014 14:15	68375	15	166	3.402	210.2	48.55	4.28	206.5	47.46	5.013	201.1	41.62	36.08	35.34	34.51	-0.747	-1.568	11.17	1.2	1112	885	0
6/15/2014 14:30	68376	15	166	3.725	195.1	26.57	4.872	194	22.55	5.825	189.2	22.11	36.42	35.65	34.77	-0.776	-1.649	11.2	1.492	1057	885	0
6/15/2014 14:45	68377	15	166	3.326	188.4	17.56	4.1	180.2	21.14	4.975	179.9	15.19	36.35	35.74	34.89	-0.611	-1.456	11.19	1.418	1017	885	0
6/15/2014 15:00	68378	15	166	3.341	176.4	36.23	4.539	175.6	32.01	5.862	175.9	25.86	36.7	35.96	35.21	-0.74	-1.491	11.29	1.81	968	884	0
6/15/2014 15:15	68379	15	166	3.738	226.4	21.65	4.994	221.4	20.25	6.084	214.5	19.68	36.84	36.26	35.54	-0.58	-1.302	11.01	1.564	932	884	0
6/15/2014 15:30	68380	15	166	3.953	165.4	33.26	5.274	160.1	31.03	6.125	157.3	24.99	37.2	36.53	35.75	-0.677	-1.455	10.69	1.434	889	884	0
6/15/2014 15:45	68381	15	166	3.565	194.2	37.62	4.698	192.1	37.78	5.456	191.1	32.73	37.14	36.54	35.8	-0.603	-1.336	10.85	1.58	864	884	0
6/15/2014 16:00	68382	15	166	2.638	235	38.75	3.528	234.9	37.34	4.544	234.7	27.59	37.1	36.66	35.97	-0.436	-1.13	10.48	1.063	783.9	884	0
6/15/2014 16:15	68383	15	166	2.941	253.1	17.63	4.032	247.9	14.06	4.832	241.3	10.62	37.11	36.71	36.1	-0.402	-1.015	9.88	0.257	804	884	0
6/15/2014 16:30	68384	15	166	4.364	256.6	16.06	6.068	253.6	12.68	7.174	249.4	9.91	37.7	37.2	36.41	-0.495	-1.288	9.67	0.398	742.3	883	0
6/15/2014 16:45	68385	15	166	4.52	260.7	16	6.817	258.4	13.44	8.1	252.8	10.28	37.34	37.01	36.27	-0.333	-1.073	9.67	0.138	599.1	883	0
6/15/2014 17:00	68386	15	166	4.133	259.8	19.87	5.909	256.9	17.93	6.878	251.6	14.35	36.88	36.69	36.11	-0.19	-0.776	9.88	0.085	471.4	883	0
6/15/2014 17:15	68387	15	166	3.151	265.9	16.63	4.581	262.9	14.76	5.605	255.1	12.55	36.69	36.62	36.13	-0.068	-0.561	9.99	0.101	416.7	883	0
6/15/2014 17:30	68388	15	166	4.25	238.7	18.6	5.919	234.1	17.36	7.494	229.7	15.32	36.54	36.66	36.13	0.127	-0.404	10.14	0.195	371	884	0
6/15/2014 17:45	68389	15	166	4.608	241.2	15.88	6.62	237.8	14.24	8.69	232.4	10.52	36.31	36.53	36.05	0.221	-0.256	10.37	0.326	301.2	884	0
6/15/2014 18:00	68390	15	166	4.073	239.2	16.78	5.69	236.8	13.57	7.409	231.3	11.99	35.98	36.33	35.93	0.353	-0.046	10.56	0.324	231.8	884	0
6/15/2014 18:15	68391	15	166	3.529	226.2	11.4	4.871	222.8	8.87	6.712	220.4	6.146	35.58	36.09	35.86	0.516	0.28	11.06	0.673	170.8	884	0
6/15/2014 18:30	68392	15	166	3.418	230.6	13.43	4.729	227.2	11.15	6.835	224	8.61	35.13	35.79	35.65	0.659	0.523	11.34	0.679	113.6	884	0
6/15/2014 18:45	68393	15	166	3.251	237.6	11.55	4.575	235.4	8.84	6.696	229	7.321	34.77	35.55	35.45	0.781	0.688	11.22	0.249	56.12	884	0
6/15/2014 19:00	68394	15	166	2.539	232.7	12.01	3.878	230.9	8.55	6.565	227.9	4.804	33.99	34.97	35.23	0.982	1.235	11.99	0.57	20.17	884	0
6/15/2014 19:15	68395	15	166	2.291	242.3	12.17	3.726	238.7	7.786	6.221	236.6	4.134	33.4	34.68	35.08	1.276	1.683	12.5	0.691	4.704	884	0
6/15/2014 19:30	68396	15	166	0.861	244.8	12.43	2.145	242.7	8.25	5.282	239.2	3.155	31.75	33.84	34.81	2.086	3.06	15.05	1.962	1.214	884	0
6/15/2014 19:45	68397	15	166	0.496	159	49.62	1.241	228.6	12.58	4.556	235.6	4.685	29.71	33.01	34.51	3.304	4.807	20.01	4.195	0.781	884	0
6/15/2014 20:00	68398	15	166	0.743	82.8	13.11	0.928	213.3	11.3	4.201	234	3.786	26.72	32.86	34.59	6.138	7.862	31.69	8.5	0.855	885	0
6/15/2014 20:15	68399	15	166	0.796	93.4	15.58	1.058	169.4	21.18	3.902	226.4	6.884	26.01	32.93	34.47	6.918	8.46	37.62	10.45	0.807	885	0
6/15/2014 20:30	68400	15	166	1.267	119.8	7.661	2.498	142.6	5.374	3.078	201.9	7.853	27.49	32.7	33.99	5.207	6.493	28.52	7.636	0.682	885	0
6/15/2014 20:45	68401	15	166	1.169	130.3	9.22	3.402	130.7	5.332	3.302	187.1	6.668	27.43	31.1	33.83	3.676	6.402	28.8	7.714	0.853	885	0
6/15/2014 21:00	68402	15	166	2.315	140.6	10.14	4.524	133.3	6.962	7.625	156.1	10.09	28.49	30.01	32.96	1.518	4.467	24.84	6.457	1.523	885	0
6/15/2014 21:15	68403	15	166	4.121	169	13.38	6.051	164.2	9.76	9.51	162	5.917	31.15	31.79	32.43	0.638	1.279	21.95	6.906	1.673	886	0
6/15/2014 21:30	68404	15	166	5.337	172.1	10.21	7.733	166.6	7.877	10.64	163.4	5.279	31.64	32.11	32.07	0.474	0.43	25.11	9.25	1.686	886	0
6/15/2014 21:45	68405	15	166	6.026	164.4	11.65	8.53	160.4	8.94	11.34	157.1	6.844	31.17	31.57	31.49	0.396	0.323	28.96	11.03	1.571	886	0
6/15/2014 22:00	68406	15	166	6.439	155	12.63	9.27	149.2	8.71	12.58	145.3	6.515	30.41	30.74	30.52	0.329	0.11	35.42	13.35	1.853	886	0
6/15/2014 22:15	68407	15	166	6.017	152.9	12.52	8.9	147.5	8.06	12	145.2	5.636	29.53	29.8	29.59	0.277	0.065	44.33	16.12	1.862	886	0
6/15/2014 22:30	68408	15	166	5.866	151.5	11.79	8.69	146.4	7.751	11.85	143.4	4.992	28.99	29.27	29.05	0.284	0.058	46.74	16.47	1.861	886	0
6/15/2014 22:45	68409	15	166	6.379	158.2	12.51	9.15	152.6	9.12	12.2	149.2	6.446	28.58	28.81	28.57	0.23	-0.014	50.19	17.22	1.941	886	0
6/15/2014 23:00	68410	15	166	6.886	165.2	12.18	9.7	159.4	8.58	12.74	156.2	5.983	28.55	28.79	28.52	0.231	-0.031	50.44	17.27	1.785	886	0
6/15/2014 23:15	68411	15	166	5.574	159.8	13.66	8.33	154.4	10.18	11.55	153	7.658	28.26	28.61	28.55	0.351	0.29	48.36	16.33	1.781	886	0
6/15/2014 23:30	68412	15	166	4.327	182.2	12.2	6.085	177.4	10.55	8.83	175.2	8.77	28.08	28.53	28.68	0.448	0.596	42.73	14.23	1.41	886	0
6/15/2014 23:45	68413	15	166	3.347	203.8	14.56	4.735	198.4	11	6.723	199.1	8.89	28.01	28.56	28.59	0.548	0.584	35.26	11.22	1.284	886	0
6/16/2014 0:00	68414	15	167	3.04	196.3	15.37	4.33	192.9	12.42	6.663	197.7	9.84	27.59	28.12	28.21	0.535	0.62	32.2	9.52	1.075	886	0

Environmental Monitoring & Hydrology Airborne Particulates Sampling

June 15, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
WIPP Far Field (WFF)*	AL-WFF-20140212-1.1	02/15/2014	36	---	**4.88E+01**	Below MDC	**3.67E+00**	51.44	**1.58E-02**	N/A	**1.19E-03**
WIPP Far Field (WFF)	AL-WFF-20140219-1.1	02/18/2014	2.4	---	**2.70E-01**	Below MDC	Below MDC	*242.65*	**1.85E-05**	N/A	N/A
WIPP East (WEE)*	AL-WEE-20140212-1.1	02/17/2014	7.29/4.4	---	**5.73E-01**	Below MDC	Below MDC	208.89	**4.57E-05**	N/A	N/A
WIPP South (WSS)*	AL-WSS-20140212-1.1	02/17/2014	7.47/3.7	---	**1.41E-01**	Below MDC	Below MDC	207.82	**1.13E-05**	N/A	N/A
Mills Ranch (MLR)*	AL-MLR-20140212-1.1	02/18/2014	2.7	---	Below MDC	Below MDC	Below MDC	269.12	N/A	N/A	N/A
Smith Ranch (SMR)*	AL-SMR-20140212-1.1	02/18/2014	4.2	---	**2.44E-01**	Below MDC	Below MDC	270.95	**1.50E-05**	N/A	N/A
Carlsbad (CBD)*	AL-CBD-20140212-1.1	02/18/2014	1.6	---	Below MDC	Below MDC	Below MDC	263.07	N/A	N/A	N/A
Southeast Control (SEC)*	AL-SEC-20140212-1.2	02/18/2014	1.3	---	Below MDC	Below MDC	Below MDC	266.42	N/A	N/A	N/A
Southeast Control (SEC) co-located sample*	AL-SEC-20140212-2.2	02/18/2014	1.5	---	Below MDC	Below MDC	Below MDC	271.13	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140219-1.1	02/26/2014	---	1.89	Below MDC	Below MDC	Below MDC	653.09	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140219-1.1	02/26/2014	---	2.48	Below MDC	Below MDC	Below MDC	738.49	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140219-1.1	02/26/2014	---	2.23	Below MDC	Below MDC	Below MDC	730.49	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140219-1.1	02/26/2014	---	2.57	Below MDC	Below MDC	Below MDC	675.95	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140219-1.1	02/26/2014	---	2.23	Below MDC	Below MDC	Below MDC	634.00	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140219-1.1	02/26/2014	---	1.12	Below MDC	Below MDC	Below MDC	663.97	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140219-1.2	02/26/2014	---	2.66	Below MDC	Below MDC	Below MDC	675.60	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140219-2.2	02/26/2014	---	1.38	Below MDC	Below MDC	Below MDC	642.96	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140226-1.1	03/04/2014	---	4.21	Below MDC	Below MDC	Below MDC	476.53	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140226-1.1	03/04/2014	---	4.90	Below MDC	Below MDC	Below MDC	478.96	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140226-1.1	03/04/2014	---	3.26	Below MDC	Below MDC	Below MDC	474.43	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140226-1.1	03/04/2014	---	5.50	Below MDC	Below MDC	Below MDC	476.20	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140226-1.1	03/04/2014	---	7.13	Below MDC	Below MDC	Below MDC	470.20	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140226-1.1	03/04/2014	---	5.50	Below MDC	Below MDC	Below MDC	482.31	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140226-1.2	03/04/2014	---	4.72	Below MDC	Below MDC	Below MDC	476.53	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140226-2.2	03/04/2014	---	6.70	Below MDC	Below MDC	Below MDC	481.39	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	549.12	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	559.62	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	556.12	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	556.78	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	543.88	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	561.30	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140304-1.2	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	557.78	N/A	N/A	N/A

Environmental Monitoring & Hydrology Airborne Particulates Sampling

June 15, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
Southeast Control (SEC) co-located sample	AL-SEC-20140304-2.2	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	552.09	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	447.76	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	535.87	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140304-1.1	03/11/2014	---	---	Below MDC	Below MDC	Below MDC	538.77	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	521.72	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	583.39	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	563.14	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	557.45	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	581.65	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	496.70	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140311-1.2	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	545.09	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140311-2.2	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	522.38	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	569.51	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	557.26	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140311-1.1	03/18/2014	---	---	Below MDC	Below MDC	Below MDC	560.11	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	551.04	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	583.62	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	598.84	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	595.58	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	580.38	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	580.55	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140318-1.2	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	586.87	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140318-2.2	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	563.63	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	591.75	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	585.15	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140318-1.1	03/25/2014	---	---	Below MDC	Below MDC	Below MDC	582.60	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140325-1.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	546.07	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140325-2.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	554.61	N/A	N/A	N/A

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Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
WIPP East (WEE)	AL-WEE-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	542.58	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	518.92	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	533.42	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	528.06	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	507.26	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140325-1.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	536.26	N/A	N/A	N/A
Southeast Control (SEC) co-located sample	AL-SEC-20140325-2.2	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	539.09	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	545.42	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	533.10	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	556.78	N/A	N/A	N/A
Guard and Security Building (GSB)‡	AL-GSB-20140325-1.1	04/01/2014	---	---	Below MDC	Below MDC	Below MDC	531.54	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140401-1.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	562.46	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140401-2.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	579.51	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	580.20	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	580.20	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	574.86	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140401-1.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	581.57	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140401-2.2	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	559.08	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	577.01	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	583.39	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	577.01	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	575.98	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	586.62	N/A	N/A	N/A
Guard and Security Building (GSB)‡	AL-GSB-20140401-1.1	04/08/2014	---	---	Below MDC	Below MDC	Below MDC	584.84	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140408-1.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	571.20	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140408-2.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	574.06	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	568.60	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	570.74	N/A	N/A	N/A

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Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
Mills Ranch (MLR)	AL-MLR-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	555.62	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140408-1.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	562.71	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140408-2.2	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	558.63	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	569.36	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	575.62	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	546.29	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	573.83	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	555.78	N/A	N/A	N/A
Guard and Security Building (GSB)‡	AL-GSB-20140408-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	574.94	N/A	N/A	N/A
Artesia (ART)§	AL-ART-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	397.41	N/A	N/A	N/A
Eunice (EUN)§	AL-EUN-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	406.71	N/A	N/A	N/A
Hobbs (HBS)§	AL-HBS-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	403.69	N/A	N/A	N/A
Loving (LVG)§	AL-LVG-20140410-1.1	04/15/2014	---	---	Below MDC	Below MDC	Below MDC	426.89	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140415-1.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	551.76	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140415-2.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	555.76	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	557.36	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	543.32	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	544.58	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140415-1.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	539.80	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140415-2.2	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	551.16	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	544.84	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	554.07	N/A	N/A	N/A
Meteorology Tower Building (MET)†	AL-MET-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	553.51	N/A	N/A	N/A
Salt Hoist (SLT)†	AL-SLT-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	565.83	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	562.97	N/A	N/A	N/A
Guard and Security Building (GSB)‡	AL-GSB-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	555.39	N/A	N/A	N/A
Artesia (ART)§	AL-ART-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	551.87	N/A	N/A	N/A
Eunice (EUN)§	AL-EUN-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	570.52	N/A	N/A	N/A

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Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
Hobbs (HBS)[§]	AL-HBS-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	556.26	N/A	N/A	N/A
Loving (LVG)[§]	AL-LVG-20140415-1.1	04/22/2014	---	---	Below MDC	Below MDC	Below MDC	545.64	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140422-1.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	562.80	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140422-2.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	577.01	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.83	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	579.86	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	579.51	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140422-1.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	553.41	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140422-2.2	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	561.97	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	563.91	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	585.19	N/A	N/A	N/A
Meteorology Tower Building (MET)[†]	AL-MET-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.49	N/A	N/A	N/A
Salt Hoist (SLT)[†]	AL-SLT-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.66	N/A	N/A	N/A
Southeast of Training Building (STB)[†]	AL-STB-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	578.00	N/A	N/A	N/A
Guard and Security Building (GSB)[‡]	AL-GSB-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.66	N/A	N/A	N/A
Artesia (ART)[§]	AL-ART-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	565.16	N/A	N/A	N/A
Eunice (EUN)[§]	AL-EUN-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	575.54	N/A	N/A	N/A
Hobbs (HBS)[§]	AL-HBS-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	546.07	N/A	N/A	N/A
Loving (LVG)[§]	AL-LVG-20140422-1.1	04/29/2014	---	---	Below MDC	Below MDC	Below MDC	568.76	N/A	N/A	N/A
WIPP Far Field (WFF)	AL-WFF-20140429-1.2	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	529.31	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	AL-WFF-20140429-2.2	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	558.25	N/A	N/A	N/A
WIPP East (WEE)	AL-WEE-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	545.23	N/A	N/A	N/A
WIPP South (WSS)	AL-WSS-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	550.04	N/A	N/A	N/A
Mills Ranch (MLR)	AL-MLR-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	547.16	N/A	N/A	N/A
Carlsbad (CBD)	AL-CBD-20140429-1.2	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	545.18	N/A	N/A	N/A
Carlsbad (CBD) co-located sample	AL-CBD-20140429-2.2	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	553.74	N/A	N/A	N/A
Smith Ranch (SMR)	AL-SMR-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	562.01	N/A	N/A	N/A
Southeast Control (SEC)	AL-SEC-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	551.54	N/A	N/A	N/A
Meteorology Tower Building (MET)[†]	AL-MET-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	531.22	N/A	N/A	N/A

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Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
Salt Hoist (SLT)†	AL-SLT-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	552.79	N/A	N/A	N/A
Southeast of Training Building (STB)†	AL-STB-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	538.36	N/A	N/A	N/A
Guard and Security Building (GSB)‡	AL-GSB-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	547.15	N/A	N/A	N/A
Artesia (ART)§	AL-ART-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	556.59	N/A	N/A	N/A
Eunice (EUN)§	AL-EUN-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	130.92	N/A	N/A	N/A
Hobbs (HBS)§	AL-HBS-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	542.32	N/A	N/A	N/A
Loving (LVG)§	AL-LVG-20140429-1.1	05/06/2014	---	---	Below MDC	Below MDC	Below MDC	563.69	N/A	N/A	N/A
Eunice (EUN)§	EE-EUN-20140429-1.1	05/07/2014	---	---	Below MDC	Below MDC	Below MDC	67.02	N/A	N/A	N/A
WIPP Far Field (WFF)	EE-WFF-20140506-1.2	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	572.89	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	EE-WFF-20140506-2.2	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	584.12	N/A	N/A	N/A
WIPP East (WEE)	EE-WEE-20140506-1.2	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	545.56	N/A	N/A	N/A
WIPP East (WEE) co-located	EE-WEE-20140506-2.2	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	589.08	N/A	N/A	N/A
WIPP South (WSS)	EE-WSS-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	602.53	N/A	N/A	N/A
Mills Ranch (MLR)	EE-MLR-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	597.79	N/A	N/A	N/A
Carlsbad (CBD)	EE-CBD-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	561.97	N/A	N/A	N/A
Smith Ranch (SMR)	EE-SMR-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	592.87	N/A	N/A	N/A
Southeast Control (SEC)	EE-SEC-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	584.44	N/A	N/A	N/A
Meteorology Tower Building (MET)†	EE-MET-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	595.11	N/A	N/A	N/A
Salt Hoist (SLT)†	EE-SLT-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	607.24	N/A	N/A	N/A
Southeast of Training Building (STB)†	EE-STB-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	603.57	N/A	N/A	N/A
Guard and Security Building (GSB)‡	EE-GSB-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	630.33	N/A	N/A	N/A
Artesia (ART)§	EE-ART-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	581.94	N/A	N/A	N/A
Eunice (EUN)§	EE-EUN-20140507-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	465.17	N/A	N/A	N/A
Hobbs (HBS)§	EE-HBS-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	576.92	N/A	N/A	N/A
Loving (LVG)§	EE-LVG-20140506-1.1	05/13/2014	---	---	Below MDC	Below MDC	Below MDC	586.21	N/A	N/A	N/A
WIPP Far Field (WFF)	EE-WFF-20140513-1.2	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	35.66	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	EE-WFF-20140513-2.2	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	34.94	N/A	N/A	N/A
WIPP East (WEE)	EE-WEE-20140513-1.2	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	549.92	N/A	N/A	N/A

Environmental Monitoring & Hydrology Airborne Particulates Sampling

June 15, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
WIPP East (WEE) co-located	EE-WEE-20140513-2.2	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	538.75	N/A	N/A	N/A
WIPP South (WSS)	EE-WSS-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	533.61	N/A	N/A	N/A
Mills Ranch (MLR)	EE-MLR-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	531.12	N/A	N/A	N/A
Carlsbad (CBD)	EE-CBD-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	536.61	N/A	N/A	N/A
Smith Ranch (SMR)	EE-SMR-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	538.04	N/A	N/A	N/A
Southeast Control (SEC)	EE-SEC-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	538.80	N/A	N/A	N/A
Meteorology Tower Building (MET)†	EE-MET-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	535.96	N/A	N/A	N/A
Salt Hoist (SLT)†	EE-SLT-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	534.47	N/A	N/A	N/A
Southeast of Training Building (STB)†	EE-STB-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	523.59	N/A	N/A	N/A
Guard and Security Building (GSB)‡	EE-GSB-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	615.99	N/A	N/A	N/A
Artesia (ART)§	EE-ART-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	550.88	N/A	N/A	N/A
Eunice (EUN)§	EE-EUN-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	543.96	N/A	N/A	N/A
Hobbs (HBS)§	EE-HBS-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	543.32	N/A	N/A	N/A
Loving (LVG)§	EE-LVG-20140513-1.1	05/20/2014	---	---	Below MDC	Below MDC	Below MDC	551.43	N/A	N/A	N/A
WIPP Far Field (WFF)	EE-WFF-20140520-1.2	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	561.11	N/A	N/A	N/A
WIPP Far Field (WFF) co-located	EE-WFF-20140520-2.2	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	563.98	N/A	N/A	N/A
WIPP East (WEE)	EE-WEE-20140520-1.2	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	554.27	N/A	N/A	N/A
WIPP East (WEE) co-located	EE-WEE-20140520-2.2	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	574.17	N/A	N/A	N/A
WIPP South (WSS)	EE-WSS-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	581.24	N/A	N/A	N/A
Mills Ranch (MLR)	EE-MLR-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	588.39	N/A	N/A	N/A
Carlsbad (CBD)	EE-CBD-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	567.33	N/A	N/A	N/A
Smith Ranch (SMR)	EE-SMR-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	591.14	N/A	N/A	N/A
Southeast Control (SEC)	EE-SEC-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	572.23	N/A	N/A	N/A
Meteorology Tower Building (MET)†	EE-MET-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	581.84	N/A	N/A	N/A
Salt Hoist (SLT)†	EE-SLT-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	585.19	N/A	N/A	N/A
Southeast of Training Building (STB)†	EE-STB-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	574.34	N/A	N/A	N/A
Guard and Security Building (GSB)‡	EE-GSB-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	571.54	N/A	N/A	N/A
Artesia (ART)§	EE-ART-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	561.46	N/A	N/A	N/A

Environmental Monitoring & Hydrology Airborne Particulates Sampling

June 15, 2014

Location	Sample ID Number	Sample Date	ISOLO Spectrum Analyzer Gross α β Preliminary/ Final DPM	WIPP Labs Gross α DPM	WIPP Labs Radiochemistry Am-241 (dpm/sample)	WIPP Labs Radiochemistry Pu-238 (dpm/sample)	WIPP Labs Radiochemistry Pu-239/240 (dpm/sample)	Air Flow Volume (m^3)	WIPP Labs Radiochemistry Am-241 (Bq/m^3)	WIPP Labs Radiochemistry Pu-238 (Bq/m^3)	WIPP Labs Radiochemistry Pu-239/240 (Bq/m^3)
Eunice (EUN)[§]	EE-EUN-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	554.73	N/A	N/A	N/A
Hobbs (HBS)[§]	EE-HBS-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	559.10	N/A	N/A	N/A
Loving (LVG)[§]	EE-LVG-20140520-1.1	05/27/2014	---	---	Below MDC	Below MDC	Below MDC	572.10	N/A	N/A	N/A

* Filter volumes based on an adjusted filter installation date. This date was changed from the actual filter installation date to the date of the release which occurred at 23:30 hours on February 14, 2014.

[†] This sampling location was initiated on March 4, 2014.

[‡] This sampling location was initiated on March 25, 2014.

[§] This sampling location was initiated on April 10, 2014.

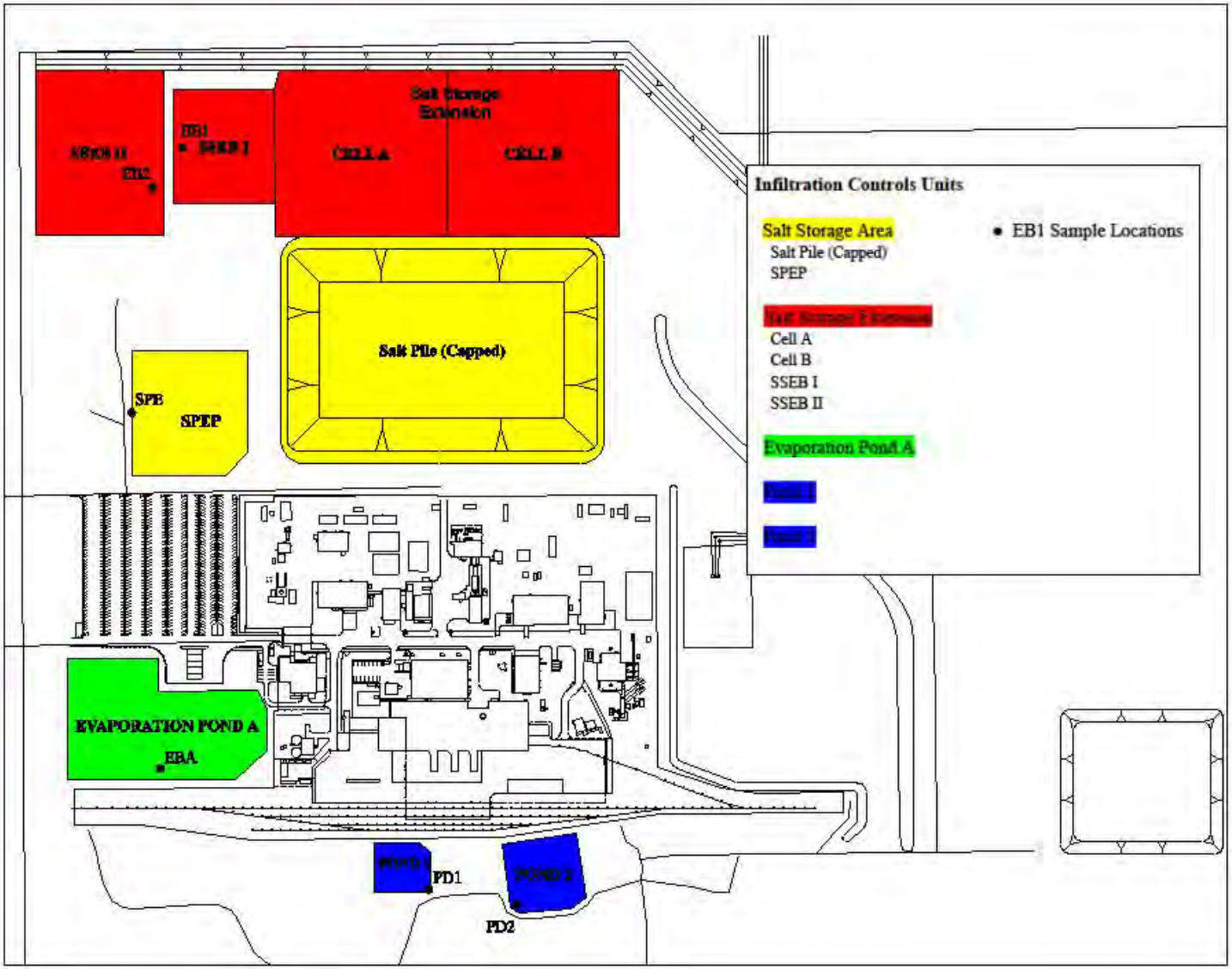
Note: Shaded cells in the table represent samples identified as a detectable concentration. Minimum detectable concentration (MDC) corresponds to the lowest concentration measurement that can be detected by the laboratory instrumentation.

MDC ranges are:

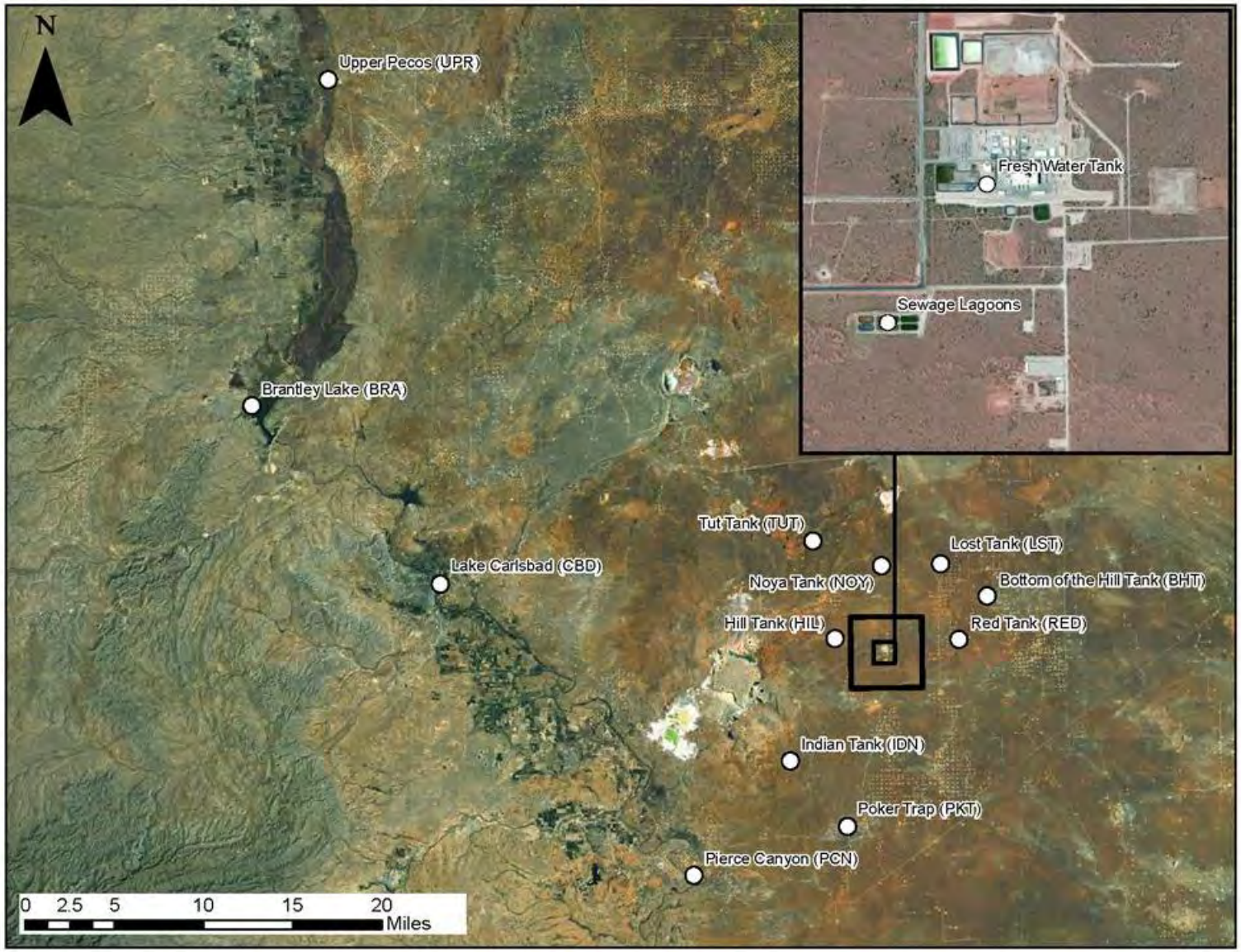
MDC Am-241 (dpm/sample): 1.89E-02 to 5.05E-01

MDC Pu-238 (dpm/sample): 1.89E-02 to 1.57E+01

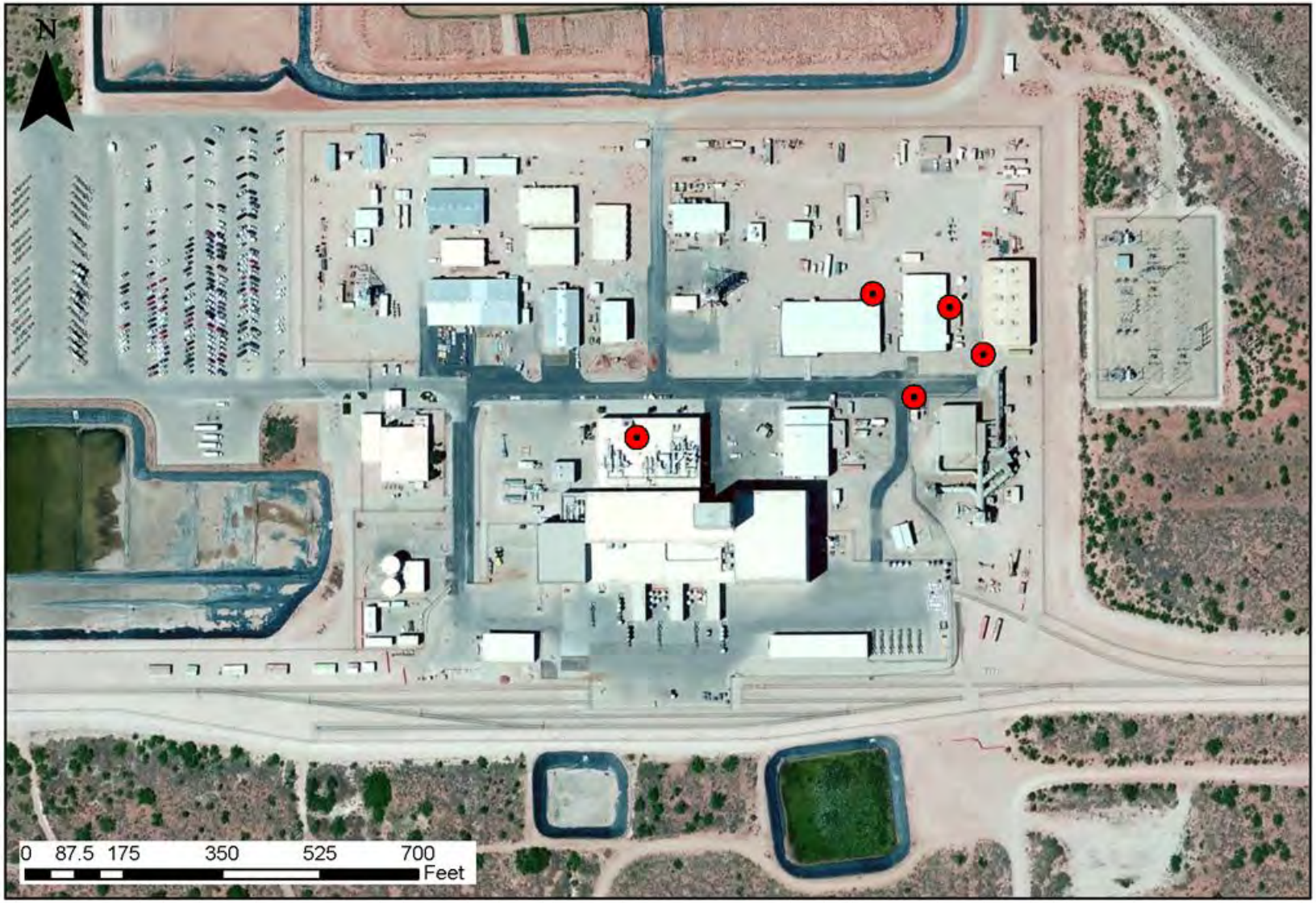
MDC Pu-239/240 (dpm/sample): 1.70E-02 to 5.94E-01



Surface Water Sample Locations

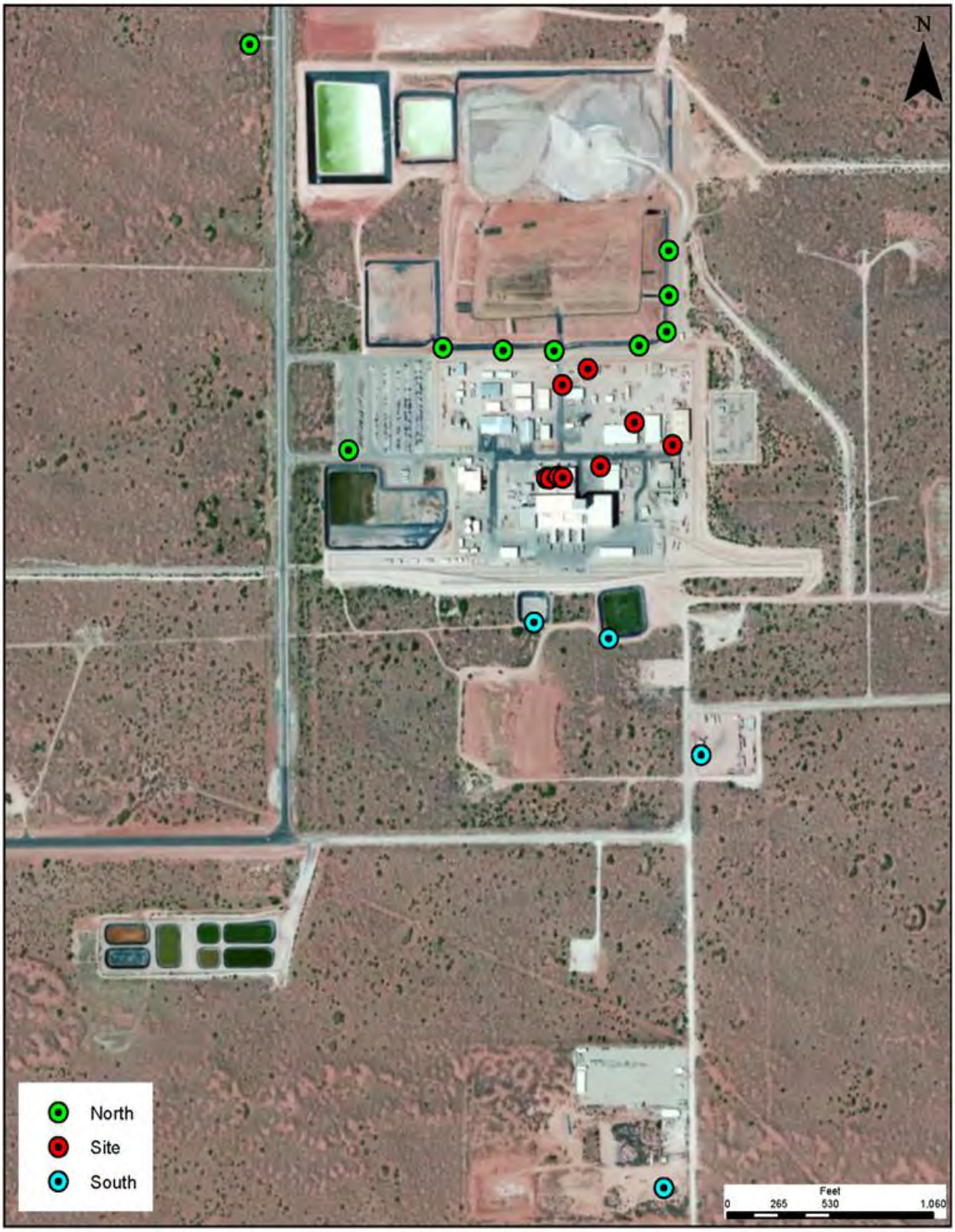


Surface Water Sample Locations (continued)



Surface Water Sample Locations (continued)

Sample of Opportunity, March 2, 2014



Surface Water Sample Locations (continued)

Sample of Opportunity, March 16, 2014

Surface Water Sample Locations (continued)

Sample of Opportunity, March 26, 2014

Environmental Monitoring & Hydrology Surface Water Sampling

June 15, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/L)	Pu-238 (dpm/L)	Pu-239/240 (dpm/L)
SWIC Evaporation Basin A	WS-EBA-20140219-1.2	2/19/2014	Below MDC	Below MDC	Below MDC
SWIC Evaporation Basin A	WS-EBA-20140219-2.2	2/19/2014	Below MDC	Below MDC	Below MDC
Salt Pile Evaporation Pond	WS-SPE-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Salt Storage Extension Basin I	WS-EB1-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Salt Storage Extension Basin II	WS-EB2-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 1	WS-PD1-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 2	WS-PD2-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Blank	WS-BLK-20140219-1.1	2/19/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity*	WS-SOO-20140302-1.2	3/2/2014	**9.69E-01**	Below MDC	**7.48E-02**
Sample of Opportunity (Dupe)*	WS-SOO-20140302-2.2	3/2/2014	**3.93E-01**	Below MDC	Below MDC
Blank	WS-BLK-20140302-1.1	3/2/2014	Below MDC	Below MDC	Below MDC
Hill Tank	WS-HIL-20140312-1.2	3/12/2014	Below MDC	Below MDC	Below MDC
Hill Tank	WS-HIL-20140312-2.2	3/12/2014	Below MDC	Below MDC	Below MDC
Fresh Water Tank	WS-FWT-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Tut Tank	WS-TUT-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Pierce Canyon	WS-PCN-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad	WS-CBD-20140313-1.2	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad	WS-CBD-20140313-2.2	3/13/2014	Below MDC	Below MDC	Below MDC
Brantley Lake	WS-BRA-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Upper Pecos River	WS-UPR-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Coyote Well	WS-COW-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140316-1.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity (Dupe)†	WS-SOO-20140316-2.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140316-3.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140316-4.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity (Blank)	WS-SOO-20140316-5.5	3/16/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity*	WS-SOO-20140326-1.2	3/26/2014	**1.60E-01**	Below MDC	Below MDC
Sample of Opportunity (Dupe)*	WS-SOO-20140326-2.2	3/26/2014	**9.07E-02**	Below MDC	Below MDC
Blank	WS-BLK-20140326-1.1	3/26/2014	Below MDC	Below MDC	Below MDC
Sewage Lagoons	WS-SWL-20140416-1.1	4/16/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 1	WS-PD1-20140423-1.1	4/23/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 2	WS-PD2-20140423-1.2	4/23/2014	Below MDC	Below MDC	Below MDC
SWIC Pond 2	WS-PD2-20140423-2.2	4/23/2014	Below MDC	Below MDC	Below MDC
Evaporation Pond A	WS-EBA-20140423-1.1	4/23/2014	Below MDC	Below MDC	Below MDC
Blank	WS-BLK-20140423-1.1	4/23/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity†	WS-SOO-20140524-1.2	5/24/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity (Dupe)†	WS-SOO-20140524-2.2	5/24/2014	Below MDC	Below MDC	Below MDC
Sample of Opportunity (Blank)	WS-BLK-20140528-1.1	5/28/2014	Below MDC	Below MDC	Below MDC

* These samples were collected during a rain event. The samples were taken from the WIPP site building roof top and roadway drainage. Highest concentration is about 3% of the EPA drinking water standard for alpha radioactivity, and represents the only signature of deposition close to the release that has been identified to date.

† These samples were collected during a second opportunistic rain event. The samples were taken from the WIPP site building roof top and roadway drainage.

Environmental Monitoring & Hydrology Surface Water Sampling

June 15, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/L)	Pu-238 (dpm/L)	Pu-239/240 (dpm/L)

Note: Shaded cells in the table represent samples identified as a detectable concentration. Sediment sample locations are co-located with off-site surface water sample locations. Surface water samples are collected when water is available.

MDC ranges are:

MDC Am-241 (dpm/L): 4.53E-02 to 7.78E-02

MDC Pu-238 (dpm/L): 3.30E-02 to 6.69E-02

MDC Pu-239/240 (dpm/L): 3.01E-02 to 5.92E-02

Environmental Monitoring & Hydrology Sediment Sampling

June 15, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
Red Tank	SB-RED-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Bottom of the Hill Tank	SB-BHT-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Noya Tank	SB-NOY-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Hill Tank	SB-HIL-20140312-1.2	3/12/2014	Below MDC	Below MDC	Below MDC
Hill Tank	SB-HIL-20140312-2.2	3/12/2014	Below MDC	Below MDC	Below MDC
Lost Tank	SB-LST-20140312-1.1	3/12/2014	Below MDC	Below MDC	Below MDC
Tut Tank	SB-TUT-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Pierce Canyon	SB-PCN-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad	SB-CBD-20140313-1.2	3/13/2014	Below MDC	Below MDC	Below MDC
Carlsbad	SB-CBD-20140313-2.2	3/13/2014	Below MDC	Below MDC	Below MDC
Poker Trap	SB-PKT-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Indian Tank	SB-IND-20140313-1.1	3/13/2014	Below MDC	Below MDC	Below MDC
Brantley	SB-BRA-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC
Upper Pecos River	SB-UPR-20140314-1.1	3/14/2014	Below MDC	Below MDC	Below MDC

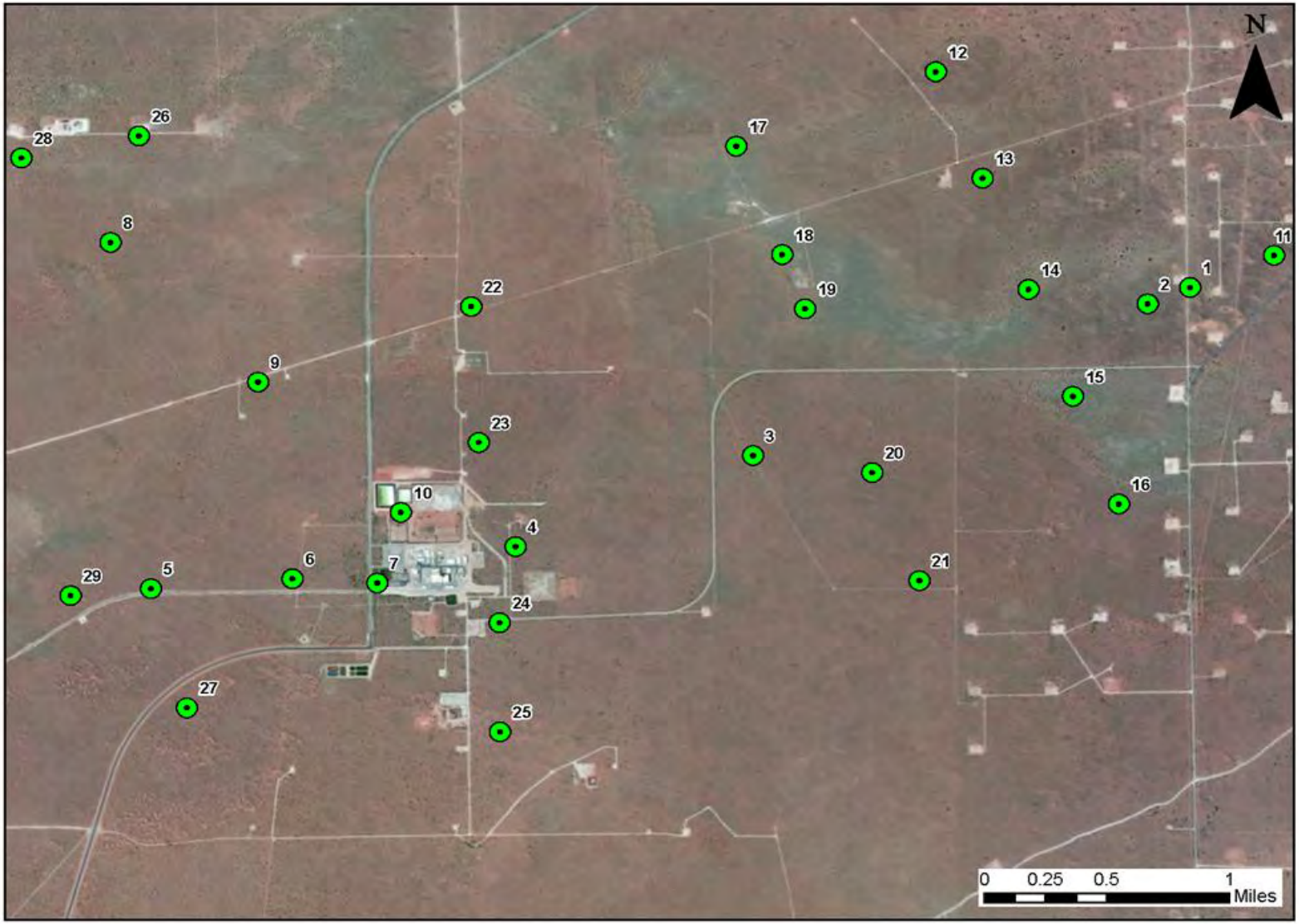
Note: Sediment sample locations are co-located with off-site surface water sample locations. Surface water samples are collected when water is available.

MDC ranges are:

MDC Am-241 (dpm/g): 3.11E-02 to 4.42E-02

MDC Pu-238 (dpm/g): 1.63E-02 to 3.26E-02

MDC Pu-239/240 (dpm/g): 3.12E-02 to 3.66E-02



Soil and Biota - Vegetation GPS Sample Locations

Environmental Monitoring & Hydrology Biota Sampling - Fauna

June 15, 2014

Tissue Type/Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
Biotic Quail/WIPP East	BQ-WEE-20140325-1.1	3/25/2014	Below MDC	Below MDC	Below MDC

MDCs are:

MDC Am-241 (dpm/g): 2.41E-02

MDC Pu-238 (dpm/g): 1.68E-02

MDC Pu-239/240 (dpm/g): 8.63E-03

Environmental Monitoring & Hydrology Biota Sampling -

June 15, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
WIPP Far Field	BV-WFF-20140221-1.2	2/21/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field (Duplicate)	BV-WFF-20140221-2.2	2/21/2014	Below MDC	Below MDC	Below MDC
WIPP East	BV-WEE-20140221-1.1	2/21/2014	Below MDC	Below MDC	Below MDC
WIPP South	BV-WSS-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
Smith Ranch	BV-SMR-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
Mills Ranch	BV-MLR-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
Southeast Control	BV-SEC-20140222-1.1	2/22/2014	Below MDC	Below MDC	Below MDC
GPS Location 1*	BV-SOO-20140319-1.1	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 2*	BV-SOO-20140319-1.2	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 3*	BV-SOO-20140319-1.3	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 4*	BV-SOO-20140319-1.4	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 5*	BV-SOO-20140321-1.5	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 6*	BV-SOO-20140321-1.6	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 7*	BV-SOO-20140320-1.7	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 8*	BV-SOO-20140321-1.8	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 9*	BV-SOO-20140320-1.9	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 10*	BV-SOO-20140319-1.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 11*	BV-SOO-20140319-1.11	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 12*	BV-SOO-20140319-1.12	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 13*	BV-SOO-20140319-1.13	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 14*	BV-SOO-20140319-1.14	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 15*	BV-SOO-20140319-1.15	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 16*	BV-SOO-20140319-1.16	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 17*	BV-SOO-20140320-1.17	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 18*	BV-SOO-20140320-1.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 19*	BV-SOO-20140320-1.19	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 20*	BV-SOO-20140319-1.20	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 21*	BV-SOO-20140319-1.21	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 22*	BV-SOO-20140320-1.22	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 23*	BV-SOO-20140320-1.23	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 24*	BV-SOO-20140319-1.24	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 25*	BV-SOO-20140319-1.25	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 26*	BV-SOO-20140321-1.26	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 27*	BV-SOO-20140320-1.27	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 28*	BV-SOO-20140321-1.28	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 29*	BV-SOO-20140321-1.29	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 10 (Duplicate)*	BV-SOO-20140319-2.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 18 (Duplicate)*	BV-SOO-20140320-2.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 6 (Duplicate)*	BV-SOO-20140321-2.6	3/21/2014	Below MDC	Below MDC	Below MDC

* These sampling sites are being accounted for via GPS location identifiers and field stakes.

Note: Vegetation samples were collected adjacent to air sampling locations.

MDC ranges are:

Environmental Monitoring & Hydrology Biota Sampling -

June 15, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)

MDC Am-241 (dpm/g): 2.32E-02 to 3.38E-02

MDC Pu-238 (dpm/g): 1.68E-02 to 2.17E-02

MDC Pu-239/240 (dpm/g): 1.04E-02 to 2.88E-02

Environmental Monitoring & Hydrology Soil Sampling

June 15, 2014

Location/Depth	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
WIPP Far Field Surface Sample (0-2 cm)	SS-WFF-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Intermediate Sample (2-5 cm)	SI-WFF-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Deep Sample (5-10 cm)	SD-WFF-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP East Surface Sample (0-2 cm)	SS-WEE-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP East Intermediate Sample (2-5 cm)	SI-WEE-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP East Deep Sample (5-10 cm)	SD-WEE-20140213-1.1	2/13/2014	Below MDC	Below MDC	Below MDC
WIPP South Surface Sample (0-2 cm)	SS-WSS-20140214-1.1	2/14/2014	Below MDC	Below MDC	Below MDC
WIPP South Intermediate Sample (2-5 cm)	SI-WSS-20140214-1.1	2/14/2014	Below MDC	Below MDC	Below MDC
WIPP South Deep Sample (5-10 cm)	SD-WSS-20140214-1.1	2/14/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Surface Sample (0-2 cm)	SS-WFF-20140217-1.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Intermediate Sample (2-5 cm)	SI-WFF-20140217-1.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Deep Sample (5-10 cm)	SD-WFF-20140217-1.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Surface Sample (0-2 cm)	SS-WFF-20140217-2.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Intermediate Sample (2-5 cm)	SI-WFF-20140217-2.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP Far Field Deep Sample (5-10 cm)	SD-WFF-20140217-2.2	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP East Surface Sample (0-2 cm)	SS-WEE-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP East Intermediate Sample (2-5 cm)	SI-WEE-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP East Deep Sample (5-10 cm)	SD-WEE-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP South Surface Sample (0-2 cm)	SS-WSS-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP South Intermediate Sample (2-5 cm)	SI-WSS-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
WIPP South Deep Sample (5-10 cm)	SD-WSS-20140217-1.1	2/17/2014	Below MDC	Below MDC	Below MDC
Mills Ranch Surface Sample (0-2 cm)*	SS-MLR-20140220-1.1	2/20/2014	Below MDC	Below MDC	**4.06E-02**
Mills Ranch Intermediate Sample (2-5 cm)	SI-MLR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Mills Ranch Deep Sample (5-10 cm)	SD-MLR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Smith Ranch Surface Sample (0-2 cm)	SS-SMR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Smith Ranch Intermediate Sample (2-5 cm)	SI-SMR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Smith Ranch Deep Sample (5-10 cm)	SD-SMR-20140220-1.1	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Surface Sample (0-2 cm)	SS-SEC-20140220-1.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Intermediate Sample (2-5 cm)	SI-SEC-20140220-1.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Deep Sample (5-10 cm)	SD-SEC-20140220-1.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Surface Sample (0-2 cm)	SS-SEC-20140220-2.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Intermediate Sample (2-5 cm)	SI-SEC-20140220-2.2	2/20/2014	Below MDC	Below MDC	Below MDC
Southeast Control Deep Sample (5-10 cm)	SD-SEC-20140220-2.2	2/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 1 (0-2 cm)†	SS-SOO-20140319-1.1	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 2 (0-2 cm)†	SS-SOO-20140319-1.2	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 3 (0-2 cm)†	SS-SOO-20140319-1.3	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 4 (0-2 cm)†	SS-SOO-20140319-1.4	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 5 (0-2 cm)†	SS-SOO-20140321-1.5	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 6 (0-2 cm)†	SS-SOO-20140321-1.6	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 7 (0-2 cm)†	SS-SOO-20140320-1.7	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 8 (0-2 cm)†	SS-SOO-20140321-1.8	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 9 (0-2 cm)†	SS-SOO-20140320-1.9	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 10 (0-2 cm)†	SS-SOO-20140319-1.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 11 (0-2 cm)†	SS-SOO-20140319-1.11	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 12 (0-2 cm)†	SS-SOO-20140319-1.12	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 13 (0-2 cm)†	SS-SOO-20140319-1.13	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 14 (0-2 cm)†	SS-SOO-20140319-1.14	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 15 (0-2 cm)†	SS-SOO-20140319-1.15	3/19/2014	Below MDC	Below MDC	Below MDC

Environmental Monitoring & Hydrology Soil Sampling

June 15, 2014

Location/Depth	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
GPS Location 16 (0-2 cm)†	SS-SOO-20140319-1.16	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 17 (0-2 cm)†	SS-SOO-20140320-1.17	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 18 (0-2 cm)†	SS-SOO-20140320-1.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 19 (0-2 cm)†	SS-SOO-20140320-1.19	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 20 (0-2 cm)†	SS-SOO-20140319-1.20	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 21 (0-2 cm)†	SS-SOO-20140319-1.21	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 22 (0-2 cm)†	SS-SOO-20140320-1.22	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 23 (0-2 cm)†	SS-SOO-20140320-1.23	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 24 (0-2 cm)†	SS-SOO-20140319-1.24	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 25 (0-2 cm)†	SS-SOO-20140319-1.25	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 26 (0-2 cm)†	SS-SOO-20140321-1.26	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 27 (0-2 cm)†	SS-SOO-20140320-1.27	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 28 (0-2 cm)†	SS-SOO-20140321-1.28	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 29 (0-2 cm)†	SS-SOO-20140321-1.29	3/21/2014	Below MDC	Below MDC	Below MDC
GPS Location 10 (0-2 cm) (Duplicate)†	SS-SOO-20140319-2.10	3/19/2014	Below MDC	Below MDC	Below MDC
GPS Location 18 (0-2 cm) (Duplicate)†	SS-SOO-20140320-2.18	3/20/2014	Below MDC	Below MDC	Below MDC
GPS Location 6 (0-2 cm) (Duplicate)†	SS-SOO-20140321-2.6	3/21/2014	Below MDC	Below MDC	Below MDC
Mills Ranch Surface Sample (0-2 cm)	SS-MLR-20140515-1.2	5/15/2014	Below MDC	Below MDC	Below MDC
Mills Ranch Surface Sample (0-2 cm) (Duplicate)‡	SS-MLR-20140515-2.2	5/15/2014	Below MDC	Below MDC	**2.38E-02**

* The detection in this sample is within the range of historical results for this location. Value updated as a result of reanalysis by the analytical laboratory.

† These sampling sites are being accounted for via GPS location identifiers and field stakes.

‡ The detection in this sample is within the range of historical results for this location.

Note: Shaded cells in the table represent samples identified as a detectable concentration. Radionuclides are considered detected in an environmental sample if the measured concentration or activity is greater than the MDC and greater than the total propagated uncertainty (TPU) at the 2 sigma (σ) TPU level. To show a non-detect, "Below MDC" is used in the Table. The MDC is the lowest concentration measurement that can be detected by laboratory instrumentation; the TPU is an estimate of uncertainty in the measurement from all sources.

MDC ranges are:

MDC Am-241 (dpm/g): 2.62E-02 to 4.12E-02

MDC Pu-238 (dpm/g): 1.61E-02 to 2.71E-02

MDC Pu-239/240 (dpm/g): 3.17E-03 to 3.56E-02

Site Environmental Compliance Salt Pile Sampling

June 15, 2014

Location	Sample ID Number	Sample Date	WIPP Labs Radiochemistry		
			Am-241 (dpm/g)	Pu-238 (dpm/g)	Pu-239/240 (dpm/g)
South Face of Salt Pile	WST-14-012	3/13/2014	Below MDC	Below MDC	Below MDC
East Face of Salt Pile	WST-14-013	3/13/2014	Below MDC	Below MDC	Below MDC
West Face of Salt Pile	WST-14-014	3/13/2014	Below MDC	Below MDC	Below MDC
South Ridge of Salt Pile, South of Salt Pile	WST-14-015	3/13/2014	Below MDC	Below MDC	Below MDC
North Ridge of Salt Pile, North of Salt Pile	WST-14-016	3/13/2014	Below MDC	Below MDC	Below MDC
South Face of Salt Pile (Duplicate)	WST-14-017	3/13/2014	Below MDC	Below MDC	Below MDC

Samples collected at the salt pile per procedure WP 02-EC1001.

MDC ranges are:

MDC Am-241 (dpm/g): 4.17E-02 to 5.03E-02

MDC Pu-238 (dpm/g): 2.84E-02 to 4.38E-02

MDC Pu-239/240 (dpm/g): 2.18E-02 to 2.43E-02

Attachment 5
Filter Differential Pressures

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/2/2014 0:00	1.07	0.53	1.17	1.14
6/2/2014 0:30	1.07	0.53	1.16	1.13
6/2/2014 1:00	1.07	0.53	1.16	1.13
6/2/2014 1:30	1.08	0.53	1.16	1.13
6/2/2014 2:00	1.09	0.53	1.16	1.13
6/2/2014 2:30	1.11	0.53	1.16	1.13
6/2/2014 3:00	1.11	0.53	1.16	1.12
6/2/2014 3:30	1.12	0.53	1.16	1.12
6/2/2014 4:00	1.13	0.53	1.16	1.12
6/2/2014 4:30	1.15	0.53	1.16	1.12
6/2/2014 5:00	1.17	0.53	1.16	1.12
6/2/2014 5:30	1.18	0.53	1.16	1.12
6/2/2014 6:00	1.20	0.53	1.16	1.12
6/2/2014 6:30	1.22	0.53	1.16	1.12
6/2/2014 7:00	1.21	0.53	1.15	1.12
6/2/2014 7:30	1.20	0.53	1.16	1.12
6/2/2014 8:00	1.17	0.53	1.16	1.12
6/2/2014 8:30	1.14	0.53	1.17	1.13
6/2/2014 9:00	1.10	0.53	1.16	1.13
6/2/2014 9:30	1.08	0.53	1.16	1.13
6/2/2014 10:00	1.05	0.53	1.17	1.13
6/2/2014 10:30	1.03	0.53	1.17	1.13
6/2/2014 11:00	1.03	0.54	1.17	1.14
6/2/2014 11:30	1.02	0.54	1.17	1.14
6/2/2014 12:00	1.01	0.54	1.17	1.14
6/2/2014 12:30	1.01	0.54	1.17	1.14
6/2/2014 13:00	1.00	0.54	1.17	1.13
6/2/2014 13:30	1.00	0.54	1.17	1.14
6/2/2014 14:00	1.00	0.55	1.17	1.13
6/2/2014 14:30	1.00	0.55	1.18	1.14
6/2/2014 15:00	1.00	0.55	1.17	1.13
6/2/2014 15:30	1.00	0.54	1.17	1.13
6/2/2014 16:00	1.00	0.54	1.16	1.13
6/2/2014 16:30	1.01	0.54	1.17	1.13
6/2/2014 17:00	1.01	0.54	1.16	1.13
6/2/2014 17:30	1.01	0.53	1.16	1.13
6/2/2014 18:00	1.02	0.53	1.16	1.13
6/2/2014 18:30	1.02	0.53	1.16	1.12
6/2/2014 19:00	1.02	0.54	1.16	1.13
6/2/2014 19:30	1.03	0.54	1.17	1.13
6/2/2014 20:00	1.03	0.54	1.17	1.13
6/2/2014 20:30	1.04	0.54	1.17	1.13
6/2/2014 21:00	1.06	0.54	1.17	1.14
6/2/2014 21:30	1.07	0.54	1.18	1.14

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/2/2014 22:00	1.07	0.54	1.18	1.14
6/2/2014 22:30	1.07	0.54	1.17	1.13
6/2/2014 23:00	1.07	0.54	1.17	1.14
6/2/2014 23:30	1.05	0.47	1.14	1.11
6/3/2014 0:00	1.10	0.54	1.18	1.14
6/3/2014 0:30	1.11	0.54	1.19	1.15
6/3/2014 1:00	1.12	0.54	1.19	1.15
6/3/2014 1:30	1.12	0.54	1.19	1.15
6/3/2014 2:00	1.13	0.54	1.18	1.14
6/3/2014 2:30	1.14	0.54	1.18	1.14
6/3/2014 3:00	1.14	0.54	1.18	1.14
6/3/2014 3:30	1.15	0.54	1.18	1.15
6/3/2014 4:00	1.16	0.54	1.19	1.15
6/3/2014 4:30	1.17	0.54	1.19	1.15
6/3/2014 5:00	1.17	0.54	1.18	1.14
6/3/2014 5:30	1.18	0.54	1.18	1.14
6/3/2014 6:00	1.19	0.54	1.18	1.14
6/3/2014 6:30	1.20	0.54	1.18	1.15
6/3/2014 7:00	1.20	0.54	1.18	1.15
6/3/2014 7:30	1.17	0.54	1.17	1.14
6/3/2014 8:00	1.14	0.53	1.14	1.10
6/3/2014 8:30	1.13	0.53	1.14	1.10
6/3/2014 9:00	1.11	0.53	1.14	1.11
6/3/2014 9:30	1.08	0.53	1.14	1.10
6/3/2014 10:00	1.06	0.53	1.13	1.10
6/3/2014 10:30	1.05	0.53	1.13	1.09
6/3/2014 11:00	1.04	0.53	1.13	1.10
6/3/2014 11:30	1.03	0.53	1.14	1.10
6/3/2014 12:00	1.03	0.53	1.14	1.10
6/3/2014 12:30	1.02	0.53	1.14	1.10
6/3/2014 13:00	1.02	0.53	1.14	1.11
6/3/2014 13:30	1.02	0.53	1.14	1.11
6/3/2014 14:00	1.01	0.52	1.14	1.10
6/3/2014 14:30	1.00	0.52	1.13	1.10
6/3/2014 15:00	1.00	0.52	1.13	1.10
6/3/2014 15:30	1.00	0.53	1.14	1.10
6/3/2014 16:00	1.06	0.56	1.23	1.19
6/3/2014 16:30	1.06	0.56	1.23	1.19
6/3/2014 17:00	1.06	0.56	1.22	1.18
6/3/2014 17:30	1.06	0.56	1.23	1.19
6/3/2014 18:00	1.06	0.56	1.23	1.19
6/3/2014 18:30	1.06	0.56	1.23	1.19
6/3/2014 19:00	1.07	0.56	1.23	1.19
6/3/2014 19:30	1.07	0.56	1.23	1.19

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/3/2014 20:00	1.08	0.56	1.24	1.19
6/3/2014 20:30	1.09	0.56	1.23	1.19
6/3/2014 21:00	1.10	0.56	1.23	1.19
6/3/2014 21:30	1.11	0.56	1.23	1.19
6/3/2014 22:00	1.11	0.51	1.22	1.17
6/3/2014 22:30	1.13	0.55	1.23	1.19
6/3/2014 23:00	1.13	0.56	1.23	1.19
6/3/2014 23:30	1.15	0.56	1.23	1.19
6/4/2014 0:00	1.15	0.56	1.23	1.19
6/4/2014 0:30	1.17	0.54	1.22	1.18
6/4/2014 1:00	1.18	0.55	1.23	1.19
6/4/2014 1:30	1.19	0.54	1.22	1.18
6/4/2014 2:00	1.20	0.55	1.23	1.18
6/4/2014 2:30	1.21	0.55	1.22	1.18
6/4/2014 3:00	1.21	0.55	1.22	1.18
6/4/2014 3:30	1.23	0.55	1.21	1.17
6/4/2014 4:00	1.24	0.55	1.22	1.17
6/4/2014 4:30	1.27	0.55	1.21	1.17
6/4/2014 5:00	1.30	0.55	1.22	1.18
6/4/2014 5:30	1.31	0.55	1.21	1.17
6/4/2014 6:00	1.33	0.55	1.21	1.17
6/4/2014 6:30	1.34	0.55	1.21	1.17
6/4/2014 7:00	1.33	0.55	1.21	1.17
6/4/2014 7:30	1.29	0.55	1.20	1.16
6/4/2014 8:00	1.25	0.55	1.20	1.16
6/4/2014 8:30	1.19	0.55	1.21	1.17
6/4/2014 9:00	1.14	0.55	1.21	1.17
6/4/2014 9:30	1.11	0.55	1.21	1.17
6/4/2014 10:00	1.09	0.55	1.21	1.17
6/4/2014 10:30	1.07	0.55	1.21	1.17
6/4/2014 11:00	1.06	0.55	1.21	1.17
6/4/2014 11:30	1.05	0.55	1.21	1.18
6/4/2014 12:00	1.05	0.55	1.22	1.18
6/4/2014 12:30	1.04	0.55	1.21	1.17
6/4/2014 13:00	1.03	0.55	1.22	1.17
6/4/2014 13:30	1.02	0.55	1.21	1.17
6/4/2014 14:00	1.02	0.55	1.21	1.17
6/4/2014 14:30	1.02	0.55	1.21	1.17
6/4/2014 15:00	1.02	0.55	1.21	1.17
6/4/2014 15:30	1.02	0.55	1.21	1.17
6/4/2014 16:00	1.02	0.55	1.21	1.17
6/4/2014 16:30	1.02	0.55	1.21	1.17
6/4/2014 17:00	1.02	0.55	1.21	1.17
6/4/2014 17:30	1.02	0.55	1.21	1.17

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/4/2014 18:00	1.02	0.55	1.22	1.17
6/4/2014 18:30	1.03	0.55	1.22	1.17
6/4/2014 19:00	1.03	0.55	1.22	1.18
6/4/2014 19:30	1.03	0.55	1.22	1.18
6/4/2014 20:00	1.04	0.55	1.22	1.18
6/4/2014 20:30	1.05	0.55	1.23	1.18
6/4/2014 21:00	1.05	0.55	1.23	1.18
6/4/2014 21:30	1.06	0.55	1.23	1.18
6/4/2014 22:00	1.07	0.55	1.23	1.18
6/4/2014 22:30	1.07	0.55	1.23	1.19
6/4/2014 23:00	1.08	0.55	1.23	1.19
6/4/2014 23:30	1.09	0.55	1.23	1.19
6/5/2014 0:00	1.10	0.55	1.23	1.19
6/5/2014 0:30	1.10	0.55	1.23	1.19
6/5/2014 1:00	1.11	0.55	1.23	1.18
6/5/2014 1:30	1.12	0.55	1.23	1.18
6/5/2014 2:00	1.13	0.55	1.23	1.18
6/5/2014 2:30	1.15	0.55	1.23	1.18
6/5/2014 3:00	1.16	0.55	1.22	1.18
6/5/2014 3:30	1.16	0.55	1.22	1.17
6/5/2014 4:00	1.17	0.55	1.21	1.17
6/5/2014 4:30	1.19	0.55	1.21	1.17
6/5/2014 5:00	1.20	0.55	1.21	1.17
6/5/2014 5:30	1.21	0.55	1.20	1.16
6/5/2014 6:00	1.24	0.55	1.20	1.16
6/5/2014 6:30	1.26	0.54	1.20	1.16
6/5/2014 7:00	1.25	0.54	1.20	1.15
6/5/2014 7:30	1.23	0.55	1.19	1.15
6/5/2014 8:00	1.20	0.55	1.20	1.16
6/5/2014 8:30	1.15	0.55	1.20	1.16
6/5/2014 9:00	1.11	0.55	1.21	1.17
6/5/2014 9:30	1.09	0.55	1.21	1.17
6/5/2014 10:00	1.07	0.55	1.21	1.17
6/5/2014 10:30	1.05	0.54	1.21	1.16
6/5/2014 11:00	1.04	0.54	1.21	1.16
6/5/2014 11:30	1.03	0.54	1.20	1.16
6/5/2014 12:00	1.02	0.54	1.20	1.16
6/5/2014 12:30	1.02	0.54	1.20	1.16
6/5/2014 13:00	1.02	0.54	1.21	1.16
6/5/2014 13:30	1.01	0.54	1.21	1.16
6/5/2014 14:00	1.01	0.54	1.20	1.16
6/5/2014 14:30	1.00	0.55	1.20	1.16
6/5/2014 15:00	1.00	0.55	1.20	1.16
6/5/2014 15:30	1.00	0.55	1.20	1.16

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/5/2014 16:00	1.01	0.55	1.21	1.16
6/5/2014 16:30	1.00	0.55	1.20	1.16
6/5/2014 17:00	1.00	0.55	1.20	1.16
6/5/2014 17:30	1.01	0.55	1.21	1.16
6/5/2014 18:00	1.01	0.55	1.21	1.16
6/5/2014 18:30	1.01	0.55	1.21	1.16
6/5/2014 19:00	1.01	0.55	1.21	1.16
6/5/2014 19:30	1.01	0.55	1.20	1.16
6/5/2014 20:00	1.02	0.55	1.21	1.16
6/5/2014 20:30	1.02	0.55	1.21	1.17
6/5/2014 21:00	1.04	0.55	1.21	1.17
6/5/2014 21:30	1.04	0.55	1.21	1.17
6/5/2014 22:00	1.05	0.55	1.22	1.17
6/5/2014 22:30	1.06	0.54	1.21	1.17
6/5/2014 23:00	1.06	0.55	1.21	1.17
6/5/2014 23:30	1.07	0.55	1.22	1.17
6/6/2014 0:00	1.08	0.55	1.21	1.17
6/6/2014 0:30	1.09	0.55	1.21	1.17
6/6/2014 1:00	1.10	0.55	1.20	1.16
6/6/2014 1:30	1.11	0.55	1.21	1.16
6/6/2014 2:00	1.12	0.55	1.21	1.17
6/6/2014 2:30	1.13	0.55	1.21	1.16
6/6/2014 3:00	1.14	0.55	1.21	1.16
6/6/2014 3:30	1.15	0.55	1.20	1.16
6/6/2014 4:00	1.16	0.55	1.20	1.16
6/6/2014 4:30	1.17	0.55	1.20	1.15
6/6/2014 5:00	1.18	0.55	1.20	1.15
6/6/2014 5:30	1.20	0.55	1.20	1.15
6/6/2014 6:00	1.20	0.55	1.20	1.15
6/6/2014 6:30	1.21	0.55	1.19	1.15
6/6/2014 7:00	1.21	0.55	1.19	1.15
6/6/2014 7:30	1.19	0.55	1.20	1.15
6/6/2014 8:00	1.16	0.55	1.19	1.15
6/6/2014 8:30	1.14	0.54	1.21	1.16
6/6/2014 9:00	1.11	0.55	1.21	1.17
6/6/2014 9:30	1.09	0.55	1.21	1.16
6/6/2014 10:00	1.06	0.55	1.20	1.16
6/6/2014 10:30	1.04	0.55	1.19	1.15
6/6/2014 11:00	1.03	0.55	1.19	1.15
6/6/2014 11:30	1.03	0.55	1.20	1.15
6/6/2014 12:00	1.01	0.54	1.19	1.15
6/6/2014 12:30	1.01	0.54	1.20	1.15
6/6/2014 13:00	1.01	0.54	1.20	1.15
6/6/2014 13:30	1.01	0.54	1.20	1.16

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/6/2014 14:00	1.01	0.54	1.20	1.16
6/6/2014 14:30	1.00	0.54	1.20	1.15
6/6/2014 15:00	1.00	0.54	1.19	1.15
6/6/2014 15:30	1.00	0.54	1.20	1.15
6/6/2014 16:00	1.00	0.54	1.20	1.16
6/6/2014 16:30	1.00	0.54	1.20	1.16
6/6/2014 17:00	1.01	0.54	1.21	1.17
6/6/2014 17:30	1.03	0.55	1.21	1.17
6/6/2014 18:00	1.04	0.54	1.20	1.16
6/6/2014 18:30	1.06	0.54	1.21	1.17
6/6/2014 19:00	1.05	0.55	1.21	1.17
6/6/2014 19:30	1.05	0.55	1.22	1.17
6/6/2014 20:00	1.05	0.55	1.21	1.16
6/6/2014 20:30	1.05	0.55	1.21	1.16
6/6/2014 21:00	1.06	0.55	1.21	1.17
6/6/2014 21:30	1.07	0.55	1.21	1.17
6/6/2014 22:00	1.08	0.55	1.21	1.17
6/6/2014 22:30	1.09	0.54	1.21	1.17
6/6/2014 23:00	1.10	0.54	1.21	1.16
6/6/2014 23:30	1.11	0.54	1.21	1.16
6/7/2014 0:00	1.12	0.55	1.21	1.16
6/7/2014 0:30	1.12	0.55	1.21	1.16
6/7/2014 1:00	1.13	0.55	1.20	1.16
6/7/2014 1:30	1.14	0.54	1.20	1.15
6/7/2014 2:00	1.16	0.54	1.20	1.16
6/7/2014 2:30	1.18	0.54	1.21	1.16
6/7/2014 3:00	1.19	0.54	1.20	1.16
6/7/2014 3:30	1.20	0.54	1.20	1.16
6/7/2014 4:00	1.22	0.54	1.20	1.16
6/7/2014 4:30	1.23	0.54	1.20	1.16
6/7/2014 5:00	1.24	0.54	1.20	1.16
6/7/2014 5:30	1.25	0.54	1.20	1.16
6/7/2014 6:00	1.27	0.54	1.20	1.15
6/7/2014 6:30	1.29	0.54	1.19	1.15
6/7/2014 7:00	1.30	0.54	1.19	1.15
6/7/2014 7:30	1.27	0.54	1.19	1.15
6/7/2014 8:00	1.25	0.54	1.20	1.15
6/7/2014 8:30	1.21	0.54	1.19	1.16
6/7/2014 9:00	1.17	0.54	1.21	1.16
6/7/2014 9:30	1.14	0.54	1.21	1.17
6/7/2014 10:00	1.11	0.54	1.21	1.17
6/7/2014 10:30	1.09	0.54	1.21	1.16
6/7/2014 11:00	1.07	0.54	1.21	1.17
6/7/2014 11:30	1.06	0.55	1.21	1.17

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/7/2014 12:00	1.05	0.55	1.21	1.16
6/7/2014 12:30	1.04	0.55	1.21	1.16
6/7/2014 13:00	1.03	0.55	1.21	1.16
6/7/2014 13:30	1.03	0.55	1.21	1.16
6/7/2014 14:00	1.03	0.55	1.21	1.17
6/7/2014 14:30	1.03	0.55	1.21	1.16
6/7/2014 15:00	1.03	0.54	1.21	1.16
6/7/2014 15:30	1.03	0.54	1.21	1.16
6/7/2014 16:00	1.03	0.54	1.21	1.16
6/7/2014 16:30	1.02	0.55	1.20	1.15
6/7/2014 17:00	1.03	0.55	1.21	1.16
6/7/2014 17:30	1.03	0.55	1.20	1.16
6/7/2014 18:00	1.03	0.55	1.21	1.16
6/7/2014 18:30	1.03	0.55	1.21	1.16
6/7/2014 19:00	1.03	0.54	1.20	1.16
6/7/2014 19:30	1.04	0.54	1.21	1.16
6/7/2014 20:00	1.05	0.54	1.21	1.16
6/7/2014 20:30	1.07	0.54	1.21	1.16
6/7/2014 21:00	1.08	0.54	1.21	1.17
6/7/2014 21:30	1.09	0.54	1.21	1.17
6/7/2014 22:00	1.10	0.54	1.21	1.17
6/7/2014 22:30	1.11	0.54	1.21	1.17
6/7/2014 23:00	1.11	0.55	1.21	1.17
6/7/2014 23:30	1.12	0.55	1.21	1.17
6/8/2014 0:00	1.13	0.55	1.20	1.16
6/8/2014 0:30	1.14	0.55	1.20	1.16
6/8/2014 1:00	1.15	0.55	1.20	1.16
6/8/2014 1:30	1.17	0.55	1.21	1.17
6/8/2014 2:00	1.17	0.55	1.21	1.16
6/8/2014 2:30	1.17	0.54	1.20	1.16
6/8/2014 3:00	1.20	0.54	1.22	1.17
6/8/2014 3:30	1.23	0.55	1.21	1.17
6/8/2014 4:00	1.27	0.54	1.21	1.16
6/8/2014 4:30	1.32	0.55	1.20	1.16
6/8/2014 5:00	1.37	0.54	1.20	1.15
6/8/2014 5:30	1.41	0.54	1.19	1.15
6/8/2014 6:00	1.44	0.54	1.20	1.15
6/8/2014 6:30	1.47	0.54	1.19	1.15
6/8/2014 7:00	1.48	0.54	1.19	1.15
6/8/2014 7:30	1.46	0.54	1.19	1.14
6/8/2014 8:00	1.44	0.54	1.19	1.15
6/8/2014 8:30	1.41	0.53	1.20	1.15
6/8/2014 9:00	1.37	0.54	1.20	1.15
6/8/2014 9:30	1.34	0.54	1.20	1.16

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/8/2014 10:00	1.32	0.54	1.19	1.15
6/8/2014 10:30	1.32	0.54	1.19	1.15
6/8/2014 11:00	1.32	0.54	1.19	1.15
6/8/2014 11:30	1.33	0.54	1.20	1.16
6/8/2014 12:00	1.34	0.54	1.20	1.16
6/8/2014 12:30	1.33	0.54	1.21	1.16
6/8/2014 13:00	1.28	0.54	1.21	1.16
6/8/2014 13:30	1.26	0.54	1.21	1.16
6/8/2014 14:00	1.25	0.54	1.21	1.17
6/8/2014 14:30	1.23	0.55	1.22	1.17
6/8/2014 15:00	1.18	0.55	1.22	1.18
6/8/2014 15:30	1.14	0.55	1.23	1.18
6/8/2014 16:00	1.10	0.55	1.23	1.18
6/8/2014 16:30	1.09	0.55	1.23	1.18
6/8/2014 17:00	1.08	0.55	1.22	1.18
6/8/2014 17:30	1.07	0.55	1.22	1.17
6/8/2014 18:00	1.07	0.55	1.22	1.18
6/8/2014 18:30	1.07	0.55	1.22	1.17
6/8/2014 19:00	1.08	0.55	1.21	1.17
6/8/2014 19:30	1.10	0.55	1.23	1.18
6/8/2014 20:00	1.13	0.54	1.20	1.16
6/8/2014 20:30	1.28	0.54	1.20	1.16
6/8/2014 21:00	1.38	0.54	1.19	1.15
6/8/2014 21:30	1.46	0.54	1.18	1.14
6/8/2014 22:00	1.53	0.54	1.16	1.12
6/8/2014 22:30	1.57	0.54	1.15	1.11
6/8/2014 23:00	1.60	0.53	1.14	1.10
6/8/2014 23:30	1.63	0.51	1.14	1.10
6/9/2014 0:00	1.64	0.51	1.13	1.09
6/9/2014 0:30	1.67	0.51	1.13	1.09
6/9/2014 1:00	1.70	0.51	1.12	1.08
6/9/2014 1:30	1.75	0.50	1.11	1.07
6/9/2014 2:00	1.79	0.50	1.11	1.07
6/9/2014 2:30	1.84	0.50	1.10	1.06
6/9/2014 3:00	1.88	0.50	1.09	1.05
6/9/2014 3:30	1.92	0.49	1.08	1.05
6/9/2014 4:00	1.96	0.49	1.08	1.05
6/9/2014 4:30	2.01	0.49	1.07	1.03
6/9/2014 5:00	2.06	0.49	1.07	1.03
6/9/2014 5:30	2.11	0.49	1.08	1.04
6/9/2014 6:00	2.16	0.49	1.07	1.04
6/9/2014 6:30	2.21	0.49	1.06	1.03
6/9/2014 7:00	2.24	0.48	1.06	1.02
6/9/2014 7:30	2.26	0.48	1.05	1.02

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/9/2014 8:00	2.26	0.48	1.06	1.02
6/9/2014 8:30	2.24	0.48	1.06	1.02
6/9/2014 9:00	2.19	0.48	1.06	1.03
6/9/2014 9:30	1.99	0.50	1.09	1.05
6/9/2014 10:00	1.48	0.52	1.17	1.12
6/9/2014 10:30	1.01	0.56	1.25	1.21
6/9/2014 11:00	0.85	0.56	1.28	1.24
6/9/2014 11:30	0.81	0.56	1.29	1.24
6/9/2014 12:00	0.79	0.57	1.29	1.24
6/9/2014 12:30	0.78	0.57	1.29	1.25
6/9/2014 13:00	0.78	0.57	1.29	1.24
6/9/2014 13:30	0.77	0.57	1.30	1.25
6/9/2014 14:00	0.77	0.57	1.30	1.25
6/9/2014 14:30	0.77	0.58	1.30	1.25
6/9/2014 15:00	0.77	0.58	1.30	1.25
6/9/2014 15:30	0.76	0.58	1.31	1.25
6/9/2014 16:00	0.77	0.57	1.30	1.25
6/9/2014 16:30	0.76	0.57	1.30	1.25
6/9/2014 17:00	0.76	0.57	1.30	1.25
6/9/2014 17:30	0.76	0.57	1.30	1.25
6/9/2014 18:00	0.76	0.57	1.30	1.25
6/9/2014 18:30	0.76	0.57	1.30	1.25
6/9/2014 19:00	0.77	0.58	1.31	1.25
6/9/2014 19:30	0.78	0.58	1.31	1.26
6/9/2014 20:00	0.78	0.57	1.31	1.25
6/9/2014 20:30	0.80	0.57	1.32	1.26
6/9/2014 21:00	0.82	0.57	1.32	1.26
6/9/2014 21:30	0.84	0.57	1.32	1.27
6/9/2014 22:00	0.85	0.57	1.32	1.27
6/9/2014 22:30	0.87	0.57	1.32	1.27
6/9/2014 23:00	0.88	0.57	1.32	1.27
6/9/2014 23:30	0.89	0.57	1.32	1.27
6/10/2014 0:00	0.90	0.57	1.32	1.26
6/10/2014 0:30	0.92	0.57	1.32	1.27
6/10/2014 1:00	0.94	0.57	1.33	1.27
6/10/2014 1:30	0.97	0.57	1.32	1.27
6/10/2014 2:00	1.00	0.56	1.32	1.26
6/10/2014 2:30	1.05	0.56	1.31	1.25
6/10/2014 3:00	1.13	0.56	1.30	1.24
6/10/2014 3:30	1.20	0.56	1.28	1.23
6/10/2014 4:00	1.30	0.55	1.27	1.22
6/10/2014 4:30	1.41	0.54	1.25	1.19
6/10/2014 5:00	1.53	0.53	1.22	1.17
6/10/2014 5:30	1.66	0.53	1.20	1.15

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/10/2014 6:00	1.78	0.52	1.18	1.13
6/10/2014 6:30	1.88	0.52	1.16	1.11
6/10/2014 7:00	1.97	0.52	1.14	1.09
6/10/2014 7:30	2.00	0.51	1.13	1.08
6/10/2014 8:00	1.99	0.51	1.12	1.08
6/10/2014 8:30	1.90	0.51	1.13	1.09
6/10/2014 9:00	1.61	0.53	1.19	1.14
6/10/2014 9:30	1.06	0.56	1.28	1.23
6/10/2014 10:00	0.78	0.57	1.33	1.27
6/10/2014 10:30	0.72	0.57	1.34	1.28
6/10/2014 11:00	0.70	0.58	1.34	1.28
6/10/2014 11:30	0.69	0.58	1.34	1.28
6/10/2014 12:00	0.69	0.58	1.33	1.27
6/10/2014 12:30	0.68	0.58	1.33	1.28
6/10/2014 13:00	0.68	0.58	1.33	1.27
6/10/2014 13:30	0.68	0.58	1.33	1.27
6/10/2014 14:00	0.68	0.58	1.33	1.27
6/10/2014 14:30	0.67	0.58	1.33	1.27
6/10/2014 15:00	0.67	0.58	1.32	1.27
6/10/2014 15:30	0.67	0.58	1.32	1.26
6/10/2014 16:00	0.67	0.58	1.32	1.26
6/10/2014 16:30	0.67	0.58	1.31	1.26
6/10/2014 17:00	0.67	0.58	1.31	1.26
6/10/2014 17:30	0.67	0.58	1.31	1.26
6/10/2014 18:00	0.67	0.57	1.32	1.26
6/10/2014 18:30	0.67	0.57	1.31	1.26
6/10/2014 19:00	0.67	0.57	1.31	1.25
6/10/2014 19:30	0.67	0.57	1.32	1.26
6/10/2014 20:00	0.67	0.57	1.32	1.27
6/10/2014 20:30	0.68	0.57	1.32	1.26
6/10/2014 21:00	0.68	0.57	1.32	1.26
6/10/2014 21:30	0.68	0.57	1.32	1.26
6/10/2014 22:00	0.69	0.57	1.32	1.26
6/10/2014 22:30	0.69	0.57	1.32	1.26
6/10/2014 23:00	0.69	0.57	1.32	1.26
6/10/2014 23:30	0.68	0.57	1.34	1.28
6/11/2014 0:00	0.68	0.57	1.34	1.28
6/11/2014 0:30	0.67	0.57	1.35	1.29
6/11/2014 1:00	0.68	0.57	1.35	1.29
6/11/2014 1:30	0.67	0.57	1.35	1.29
6/11/2014 2:00	0.69	0.57	1.34	1.28
6/11/2014 2:30	0.69	0.57	1.33	1.27
6/11/2014 3:00	0.70	0.56	1.33	1.27
6/11/2014 3:30	0.70	0.56	1.32	1.26

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/11/2014 4:00	0.71	0.57	1.33	1.26
6/11/2014 4:30	0.72	0.56	1.33	1.26
6/11/2014 5:00	0.72	0.56	1.33	1.27
6/11/2014 5:30	0.72	0.56	1.33	1.26
6/11/2014 6:00	0.72	0.56	1.33	1.26
6/11/2014 6:30	0.73	0.56	1.32	1.26
6/11/2014 7:00	0.72	0.56	1.33	1.27
6/11/2014 7:30	0.72	0.56	1.33	1.27
6/11/2014 8:00	0.71	0.56	1.32	1.26
6/11/2014 8:30	0.69	0.56	1.32	1.26
6/11/2014 9:00	0.68	0.56	1.32	1.26
6/11/2014 9:30	0.67	0.56	1.31	1.25
6/11/2014 10:00	0.66	0.56	1.31	1.25
6/11/2014 10:30	0.66	0.56	1.31	1.25
6/11/2014 11:00	0.65	0.56	1.31	1.25
6/11/2014 11:30	0.65	0.56	1.30	1.24
6/11/2014 12:00	0.65	0.56	1.30	1.24
6/11/2014 12:30	0.64	0.56	1.30	1.24
6/11/2014 13:00	0.65	0.56	1.30	1.24
6/11/2014 13:30	0.64	0.56	1.30	1.24
6/11/2014 14:00	0.64	0.56	1.30	1.23
6/11/2014 14:30	0.64	0.56	1.30	1.23
6/11/2014 15:00	0.65	0.56	1.30	1.24
6/11/2014 15:30	0.65	0.56	1.30	1.24
6/11/2014 16:00	0.64	0.55	1.30	1.24
6/11/2014 16:30	0.64	0.55	1.30	1.23
6/11/2014 17:00	0.64	0.55	1.30	1.24
6/11/2014 17:30	0.64	0.55	1.30	1.23
6/11/2014 18:00	0.65	0.55	1.30	1.23
6/11/2014 18:30	0.65	0.55	1.30	1.23
6/11/2014 19:00	0.64	0.55	1.30	1.23
6/11/2014 19:30	0.65	0.55	1.30	1.24
6/11/2014 20:00	0.65	0.55	1.31	1.24
6/11/2014 20:30	0.65	0.56	1.31	1.25
6/11/2014 21:00	0.66	0.56	1.32	1.25
6/11/2014 21:30	0.66	0.56	1.31	1.25
6/11/2014 22:00	0.66	0.56	1.31	1.25
6/11/2014 22:30	0.67	0.56	1.32	1.25
6/11/2014 23:00	0.67	0.56	1.32	1.25
6/11/2014 23:30	0.66	0.57	1.34	1.27
6/12/2014 0:00	0.65	0.57	1.33	1.27
6/12/2014 0:30	0.66	0.57	1.33	1.26
6/12/2014 1:00	0.67	0.57	1.32	1.26
6/12/2014 1:30	0.67	0.57	1.32	1.25

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/12/2014 2:00	0.67	0.57	1.32	1.25
6/12/2014 2:30	0.68	0.57	1.33	1.26
6/12/2014 3:00	0.68	0.57	1.33	1.26
6/12/2014 3:30	0.68	0.57	1.32	1.26
6/12/2014 4:00	0.68	0.57	1.32	1.26
6/12/2014 4:30	0.67	0.57	1.33	1.27
6/12/2014 5:00	0.69	0.57	1.33	1.27
6/12/2014 5:30	0.69	0.56	1.32	1.25
6/12/2014 6:00	0.70	0.56	1.33	1.26
6/12/2014 6:30	0.70	0.56	1.33	1.26
6/12/2014 7:00	0.70	0.56	1.33	1.26
6/12/2014 7:30	0.69	0.56	1.32	1.26
6/12/2014 8:00	0.69	0.56	1.32	1.26
6/12/2014 8:30	0.68	0.57	1.33	1.26
6/12/2014 9:00	0.68	0.57	1.33	1.26
6/12/2014 9:30	0.68	0.57	1.33	1.26
6/12/2014 10:00	0.67	0.56	1.32	1.26
6/12/2014 10:30	0.67	0.56	1.32	1.26
6/12/2014 11:00	0.67	0.56	1.32	1.26
6/12/2014 11:30	0.67	0.56	1.32	1.25
6/12/2014 12:00	0.66	0.56	1.32	1.25
6/12/2014 12:30	0.66	0.56	1.31	1.24
6/12/2014 13:00	0.66	0.56	1.31	1.24
6/12/2014 13:30	0.66	0.56	1.31	1.24
6/12/2014 14:00	0.65	0.56	1.31	1.24
6/12/2014 14:30	0.65	0.56	1.30	1.24
6/12/2014 15:00	0.66	0.56	1.30	1.24
6/12/2014 15:30	0.65	0.56	1.30	1.24
6/12/2014 16:00	0.66	0.56	1.31	1.24
6/12/2014 16:30	0.65	0.56	1.31	1.24
6/12/2014 17:00	0.66	0.56	1.31	1.24
6/12/2014 17:30	0.66	0.56	1.31	1.24
6/12/2014 18:00	0.66	0.56	1.31	1.24
6/12/2014 18:30	0.66	0.56	1.31	1.24
6/12/2014 19:00	0.66	0.56	1.31	1.25
6/12/2014 19:30	0.66	0.56	1.32	1.25
6/12/2014 20:00	0.67	0.56	1.32	1.25
6/12/2014 20:30	0.67	0.56	1.32	1.25
6/12/2014 21:00	0.68	0.56	1.33	1.26
6/12/2014 21:30	0.68	0.56	1.33	1.26
6/12/2014 22:00	0.68	0.56	1.33	1.26
6/12/2014 22:30	0.68	0.57	1.36	1.29
6/12/2014 23:00	0.68	0.57	1.36	1.29
6/12/2014 23:30	0.68	0.58	1.37	1.30

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/13/2014 0:00	0.68	0.57	1.35	1.28
6/13/2014 0:30	0.69	0.57	1.35	1.28
6/13/2014 1:00	0.69	0.57	1.35	1.28
6/13/2014 1:30	0.70	0.56	1.32	1.25
6/13/2014 2:00	0.70	0.56	1.31	1.25
6/13/2014 2:30	0.70	0.56	1.31	1.24
6/13/2014 3:00	0.71	0.56	1.31	1.24
6/13/2014 3:30	0.71	0.56	1.32	1.25
6/13/2014 4:00	0.72	0.56	1.31	1.24
6/13/2014 4:30	0.72	0.56	1.31	1.25
6/13/2014 5:00	0.72	0.56	1.31	1.25
6/13/2014 5:30	0.72	0.56	1.31	1.25
6/13/2014 6:00	0.72	0.56	1.31	1.24
6/13/2014 6:30	0.73	0.56	1.31	1.25
6/13/2014 7:00	0.72	0.56	1.31	1.24
6/13/2014 7:30	0.73	0.55	1.31	1.24
6/13/2014 8:00	0.72	0.56	1.31	1.25
6/13/2014 8:30	0.72	0.56	1.31	1.24
6/13/2014 9:00	0.72	0.56	1.31	1.24
6/13/2014 9:30	0.72	0.56	1.31	1.24
6/13/2014 10:00	0.71	0.56	1.30	1.24
6/13/2014 10:30	0.70	0.56	1.31	1.24
6/13/2014 11:00	0.69	0.56	1.30	1.24
6/13/2014 11:30	0.68	0.55	1.30	1.24
6/13/2014 12:00	0.67	0.55	1.30	1.23
6/13/2014 12:30	0.66	0.55	1.29	1.23
6/13/2014 13:00	0.66	0.55	1.29	1.23
6/13/2014 13:30	0.65	0.56	1.29	1.22
6/13/2014 14:00	0.65	0.56	1.28	1.22
6/13/2014 14:30	0.65	0.55	1.28	1.22
6/13/2014 15:00	0.65	0.55	1.28	1.22
6/13/2014 15:30	0.65	0.55	1.28	1.21
6/13/2014 16:00	0.65	0.55	1.28	1.22
6/13/2014 16:30	0.65	0.55	1.28	1.21
6/13/2014 17:00	0.65	0.55	1.28	1.21
6/13/2014 17:30	0.65	0.55	1.28	1.21
6/13/2014 18:00	0.65	0.55	1.28	1.21
6/13/2014 18:30	0.65	0.55	1.28	1.22
6/13/2014 19:00	0.67	0.55	1.29	1.23
6/13/2014 19:30	0.71	0.56	1.32	1.25
6/13/2014 20:00	0.70	0.55	1.31	1.24
6/13/2014 20:30	0.69	0.55	1.29	1.22
6/13/2014 21:00	0.72	0.56	1.31	1.24
6/13/2014 21:30	0.73	0.56	1.30	1.23

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/13/2014 22:00	0.75	0.56	1.30	1.23
6/13/2014 22:30	0.76	0.55	1.30	1.23
6/13/2014 23:00	0.76	0.55	1.30	1.24
6/13/2014 23:30	0.77	0.55	1.30	1.24
6/14/2014 0:00	0.78	0.55	1.29	1.23
6/14/2014 0:30	0.80	0.55	1.29	1.23
6/14/2014 1:00	0.80	0.55	1.29	1.22
6/14/2014 1:30	0.79	0.55	1.29	1.22
6/14/2014 2:00	0.79	0.55	1.31	1.24
6/14/2014 2:30	0.77	0.56	1.32	1.25
6/14/2014 3:00	0.77	0.56	1.30	1.23
6/14/2014 3:30	0.79	0.56	1.30	1.23
6/14/2014 4:00	0.80	0.56	1.29	1.23
6/14/2014 4:30	0.83	0.56	1.29	1.22
6/14/2014 5:00	0.84	0.55	1.29	1.23
6/14/2014 5:30	0.86	0.55	1.28	1.22
6/14/2014 6:00	0.88	0.55	1.28	1.22
6/14/2014 6:30	0.91	0.55	1.27	1.21
6/14/2014 7:00	0.91	0.55	1.27	1.21
6/14/2014 7:30	0.88	0.55	1.27	1.21
6/14/2014 8:00	0.84	0.55	1.28	1.22
6/14/2014 8:30	0.77	0.55	1.29	1.23
6/14/2014 9:00	0.71	0.56	1.30	1.24
6/14/2014 9:30	0.67	0.56	1.30	1.24
6/14/2014 10:00	0.66	0.56	1.30	1.24
6/14/2014 10:30	0.66	0.56	1.30	1.24
6/14/2014 11:00	0.65	0.56	1.30	1.24
6/14/2014 11:30	0.65	0.56	1.30	1.23
6/14/2014 12:00	0.64	0.56	1.29	1.23
6/14/2014 12:30	0.64	0.56	1.30	1.23
6/14/2014 13:00	0.64	0.56	1.30	1.24
6/14/2014 13:30	0.64	0.56	1.30	1.23
6/14/2014 14:00	0.63	0.56	1.29	1.23
6/14/2014 14:30	0.64	0.56	1.29	1.23
6/14/2014 15:00	0.64	0.56	1.29	1.23
6/14/2014 15:30	0.63	0.56	1.29	1.23
6/14/2014 16:00	0.64	0.56	1.30	1.23
6/14/2014 16:30	0.64	0.56	1.30	1.23
6/14/2014 17:00	0.64	0.56	1.30	1.23
6/14/2014 17:30	0.64	0.56	1.30	1.23
6/14/2014 18:00	0.64	0.56	1.30	1.23
6/14/2014 18:30	0.64	0.56	1.30	1.23
6/14/2014 19:00	0.64	0.56	1.30	1.23
6/14/2014 19:30	0.64	0.56	1.30	1.23

Preliminary Data from Central Monitoring System

	Filter Unit 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2
6/14/2014 20:00	0.64	0.56	1.30	1.23
6/14/2014 20:30	0.64	0.56	1.30	1.23
6/14/2014 21:00	0.65	0.56	1.30	1.24
6/14/2014 21:30	0.65	0.56	1.30	1.24
6/14/2014 22:00	0.65	0.56	1.31	1.24
6/14/2014 22:30	0.65	0.56	1.30	1.24
6/14/2014 23:00	0.65	0.56	1.31	1.24
6/14/2014 23:30	0.66	0.56	1.31	1.24
6/15/2014 0:00	0.66	0.56	1.31	1.24
6/15/2014 0:30	0.67	0.56	1.31	1.24
6/15/2014 1:00	0.67	0.56	1.31	1.24
6/15/2014 1:30	0.67	0.56	1.31	1.24
6/15/2014 2:00	0.67	0.56	1.30	1.24
6/15/2014 2:30	0.67	0.56	1.31	1.24
6/15/2014 3:00	0.68	0.56	1.30	1.24
6/15/2014 3:30	0.68	0.56	1.30	1.24
6/15/2014 4:00	0.69	0.56	1.31	1.24
6/15/2014 4:30	0.70	0.56	1.30	1.24
6/15/2014 5:00	0.71	0.56	1.31	1.24
6/15/2014 5:30	0.72	0.56	1.31	1.24
6/15/2014 6:00	0.74	0.56	1.30	1.24
6/15/2014 6:30	0.75	0.56	1.30	1.23
6/15/2014 7:00	0.77	0.55	1.30	1.23
6/15/2014 7:30	0.75	0.55	1.29	1.23
6/15/2014 8:00	0.72	0.55	1.30	1.23
6/15/2014 8:30	0.69	0.55	1.30	1.24
6/15/2014 9:00	0.67	0.56	1.31	1.24
6/15/2014 9:30	0.66	0.56	1.31	1.24
6/15/2014 10:00	0.65	0.56	1.30	1.24
6/15/2014 10:30	0.64	0.56	1.30	1.23
6/15/2014 11:00	0.64	0.56	1.30	1.23
6/15/2014 11:30	0.64	0.56	1.30	1.23
6/15/2014 12:00	0.64	0.56	1.30	1.24
6/15/2014 12:30	0.63	0.56	1.30	1.24
6/15/2014 13:00	0.63	0.56	1.30	1.24
6/15/2014 13:30	0.64	0.56	1.31	1.24
6/15/2014 14:00	0.63	0.56	1.31	1.24
6/15/2014 14:30	0.63	0.56	1.30	1.24
6/15/2014 15:00	0.63	0.56	1.30	1.24
6/15/2014 15:30	0.63	0.56	1.30	1.24
6/15/2014 16:00	0.63	0.56	1.30	1.24
6/15/2014 16:30	0.63	0.56	1.30	1.23
6/15/2014 17:00	0.63	0.56	1.30	1.23
6/15/2014 17:30	0.63	0.56	1.30	1.24

Preliminary Data from Central Monitoring System

Date and Time	Filter Unit 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2
6/15/2014 18:00	0.63	0.56	1.30	1.24
6/15/2014 18:30	0.63	0.56	1.30	1.23
6/15/2014 19:00	0.64	0.56	1.30	1.24
6/15/2014 19:30	0.63	0.56	1.30	1.23
6/15/2014 20:00	0.63	0.56	1.31	1.24
6/15/2014 20:30	0.64	0.56	1.31	1.24
6/15/2014 21:00	0.64	0.56	1.31	1.24
6/15/2014 21:30	0.64	0.56	1.30	1.24
6/15/2014 22:00	0.65	0.56	1.31	1.24
6/15/2014 22:30	0.64	0.56	1.31	1.24
6/15/2014 23:00	0.64	0.56	1.31	1.24
6/15/2014 23:30	0.65	0.56	1.31	1.24
6/16/2014 0:00	0.65	0.56	1.31	1.24

*in wg - inches of water gauge

Attachment 6
Surface and Underground Derived Waste Currently in Storage at the WIPP Facility

Container Number	Container Type	Date Stored	Derived Waste Description	Container Contents	Surface/ Underground	Container Location	Storage Deadline	Mixed/ Non-Mixed	Waste Volume[1] (ft^3)
WISD002	SWB	6/13/2014	Mod and High-Efficienty filters from 41-B-856 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	8/12/2014	Mixed	66.3
WISD003	SWB	6/13/2014	Mod and High-Efficienty filters from 41-B-856 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	8/12/2014	Mixed	66.3
WISD004	SWB	6/13/2014	Mod and High-Efficienty filters from 41-B-856 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	8/12/2014	Mixed	66.3
WISD005	SWB	6/13/2014	Mod and High-Efficienty filters from 41-B-856 filter unit change out	(5) filters, cardboard box and plastic bags (filter packaging material)	Surface	CH Bay	8/12/2014	Mixed	66.3
See Footnote (2)	SWB	6/13/2014	Mod and High-Efficienty filters from 41-B-856 filter unit change out	(1) filter, cardboard box and plastic bags (filter packaging material)	Surface	DWSA	---	Mixed	---
4 Containers	---	----	---	---	---	---	---	---	265.20 ft^3

[1]55G Drum=7.4 ft^3, SWB=66.3 ft^3, TDOP=160 ft^3, 85G Drum=11.4 ft^3, 100G Drum=13.4 ft^3, SLB2=261 ft^3 (Permit Part 3, Section 3.3.1).

[2]Derived waste may be accumulated and stored in the DWSA until the container is full (Permit Part 3, Section 3.1.1.7)

SWB – standard waste box

DWSA – Derived Waste Storage Area

Attachment 7
Status of RCRA Contingency Plan Required Activities

RCRA Contingency Plan Section	RCRA Contingency Plan Text	Applicability to the February 14, 2014, Event	Current Status/Schedule/Deviations
D-1 General Information	Wastes generated as a result of maintenance or response actions will be categorized into one of three groups and disposed of accordingly. These are: 1) nonhazardous wastes to be disposed of in an approved landfill, 2) hazardous nonradioactive wastes to be disposed of at an off-site RCRA permitted facility, and 3) TRU mixed waste to be disposed of in the underground HWDUs.	The required activities described in this section are applicable to the current implementation of the Contingency Plan.	Category 3 site derived waste has been generated as a result of underground ventilation filter change-out activities. This waste is currently being stored in the WHB and will be disposed of in the underground HWDU when disposal operations resume. Categories 1 and 2 are not regulated by this Permit.
D-1 General Information	Liquid wastes that may be generated as a result of the fire fighting water or decontamination solutions will be managed as follows: Non-Mixed - Hazardous waste liquids contaminated only with hazardous constituents will be placed into containers and managed in accordance with 20.4.1.300 NMAC (incorporating 40 CFR §262.34) requirements. The waste will be shipped to an approved off-site treatment, storage, or disposal facility. Mixed - Liquids contaminated with TRU mixed waste (inside the WHB Unit) will be solidified as they are placed into containers with cement, Aquaset, or absorbent material in them. The solidified materials will be disposed of in the underground WIPP repository as derived waste.	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	No fire fighting water has been used in response to this event. No liquid waste has been generated to date as a result of decontamination activities. Non-mixed hazardous waste is not regulated by this Permit.
D-4b Identification of Hazardous Materials	The identification of hazardous wastes, hazardous waste constituents, or hazardous materials involved in a fire, an explosion, or a release to the environment is a necessary part of the assessment of an incident, as described in 20.4.1.500 NMAC (incorporating 40 CFR §264.56(b)). RCRA hazardous waste and hazardous substances and materials listed in 40 CFR §302.4 and §302.6 or New Mexico Emergency Management Act, §74-4B-3 and §74-4B-5 and, involved in any release at the WIPP facility will be identified. The identification of likely hazardous materials at any location is enhanced because hazardous materials and hazardous waste are only stored or managed in specified locations throughout the WIPP facility. An attempt will be made to identify products involved by occupancy/location, container shape, markings/color, placards/labels, United Nations/North America/Product Identification Number, on-site technical experts, or field sampling. Further, the ES&H department maintains an updated inventory of hazardous materials/substances that are brought on site, and a master MSDS listing in the Safety and Emergency Services Facility, Building 452. Sources of information available to identify the hazardous wastes, substances, or materials involved in a fire, an explosion, or a release at the WIPP facility	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	All required information was available as required by the Permit via the WIPP waste information system. Re-entries into Panel 7, Room 7, have indicated that the radiological release originated from at least one damaged waste container from Los Alamos National Laboratory waste stream LA-MIN02-V.001. EPA hazardous waste numbers associated with this waste stream are D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D035, D038, D039, D040, F001, F002, and F005.

RCRA Contingency Plan Section	RCRA Contingency Plan Text	Applicability to the February 14, 2014, Event	Current Status/Schedule/Deviations
	include operator/supervisor knowledge of their work areas, materials used, and work activities underway; the WIPP Waste Information System (WWIS), which identifies the location within the facility of emplaced TRU mixed waste, including emplaced derived waste; and waste manifests and other waste characterization information in the operating record. The WWIS also includes information on wastes that are in the waste handling process. Also available are MSDSs for hazardous material in the various user areas throughout the facility, waste acceptance records, and materials inventories for buildings and operating groups at the WIPP facility. Information or data from the derived waste accumulation areas, the hazardous waste staging area, satellite staging areas, and nonregulated waste accumulation areas are included. TRU mixed waste received by the WIPP facility during the Disposal Phase will be characterized for hazardous constituents prior to receipt, and acceptable knowledge will be used to characterize derived waste prior to emplacement. Information required for identifying TRU mixed hazardous constituents in case of an incident is readily available through the WWIS and the waste acceptance records. Waste accepted at WIPP is already known to be compatible with all materials used to respond to an emergency. All non-TRU mixed waste materials received on site, other than those listed in Table D-1, are in such small quantities that no reaction could develop which would trigger an Incident Level II or III response. The RCRA Emergency Coordinator will have access to the WWIS through Operations, or through the Facility Shift Manager's Office. The RCRA Emergency Coordinator has access to the inventory lists and MSDSs in the Safety and Emergency Services Facility at all times.		
D-4c Assessment of the Nature and Extent of the Emergency	Once the required notifications have been made, the RCRA Emergency Coordinator will ensure that the identity, exact source, amount, and areal extent of any released materials are determined, as required under 20.4.1.500 NMAC (incorporating 40 CFR §264.56(b)). The RCRA Emergency Coordinator will determine whether the occurrence constitutes an emergency based on knowledge of the area and access to the waste identification/characterization information described in Section D-4b. An emergency will require response by only trained emergency response personnel. The RCRA Emergency Coordinator will be responsible for responding to immediate and potential hazards, using the services of trained personnel to determine: 1) the identity of hazardous wastes, hazardous waste constituents, and other hazardous materials involved in a release, as described in Section D-4b; 2) whether or not a release involved a reportable quantity of a hazardous substance; 3) the areal extent of a release; 4) the exact source of a release; and 5) the potential hazards to human health or to	The February 14, 2014, event has been managed as a radiological event. The initial response to this event was to protect against the primary hazard, which was identified as the radiological component of the waste. Therefore, the activities conducted relative to assessing the nature and extent of the	The WIPP facility is still in the process of assessing the nature and extent of the radiological event through the re-entry process. Hazards posed by the February 14, 2014, event are radiological in nature. The processes for dealing with the event involve specifications to protect workers from radioactivity. These measures are appropriate and sufficient to protect against any hazardous constituents that might be present.

RCRA Contingency Plan Section	RCRA Contingency Plan Text	Applicability to the February 14, 2014, Event	Current Status/Schedule/Deviations
	the environment. After the materials involved in an emergency are identified, the specific information on the associated hazards, appropriate personal protective equipment (PPE), decontamination, etc., will be obtained from MSDSs and from appropriate chemical reference materials at the same location. These information sources may be accessed by the RCRA Emergency Coordinator or through several WIPP facility organizations. The emergency assessment requires determination of hazards involving evaluation of several criteria, including: • Exposure: magnitude of actual or potential exposure to employees, the general public, and the environment; duration of human and environmental exposure; pathways of exposure • Toxicity: types of adverse health or environmental effects associated with exposures; the relationship between the magnitude of exposure and adverse effects • Reactivity: hazardous materials or hazardous wastes, which are not TRU mixed wastes, involved in an incident will be assessed for reactivity through accessing the MSDSs for the affected material and the recommended method(s) for managing such waste • Uncertainties: considerations for undeterminable or future exposures; uncertain or unknown health effects, including future health effects	emergency pertained to the radiological release.	
D-4d Control, Containment, and Correction of the Emergency	The WIPP facility is required to control an emergency and to minimize the potential for the occurrence, recurrence, or spread of releases due to the emergency situation, as described in 20.4.1.500 NMAC (incorporating 40 CFR §264.56 (e)). The WIPP Emergency Response procedures utilize the incident mitigation guidelines in NFPA 471, Responding to Hazardous Materials Incidents, with initial response priority being on control, and those actions necessary to ensure confinement and containment (the first line of defense) in the early, critical stages of a spill or leak. The RCRA Emergency Coordinator is responsible for stopping processes and operations when necessary, and removing or isolating containers. TRU mixed waste will remain within the WHB Unit, the Parking Area Unit, and the underground HWDU.	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	The ventilation switch to filtration mode minimized the potential for spread of the radiological release. Underground exhaust air has continued to be routed through high-efficiency particulate air (HEPA) filtration. Since the event, processes and operations have been suspended at the WIPP facility. Access to the underground is restricted.
D-4d(1) All Emergencies	The WIPP Emergency Response procedures include, but are not limited to, the following actions appropriate for control: 1. Isolate the area from unauthorized person by fences, barricades, warning signs, or other security and site control precautions. Isolation and evacuation distances vary, depending upon the chemical/product, fire,	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	Procedures and/or work control documents are in place per the WIPP Emergency Plan to deal with the radiological release: Access to the underground is being controlled and entries into

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	and weather situations. 2. Identify the chemical/product according to Section D-4b. 3. Drainage controls. 4. Stabilization of physical controls (such as dikes or impoundment[s]). 5. Capping of contaminated soils to reduce migration. 6. Using chemicals and other materials to retard the spread of the release or to mitigate its effects. 7. Excavation, consolidation, removal, or disposal of contaminated soils. 8. Removal of drums, barrels, or tanks where it will reduce exposure risk during situations such as fires. If the facility stops operations in response to a fire, explosion, or release, the RCRA Emergency Coordinator shall ensure continued monitoring for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever appropriate. If operations continue, personnel normally assigned to these tasks will continue. Both natural and synthetic methods will be employed to limit the releases of hazardous materials so that effective recovery and treatment can be accomplished with minimum additional risk to human health or the environment. A combination of the above methods to achieve protection of human health and the environment, with emphasis on two basic methods for mitigation of hazardous materials incidents - Physical and Chemical (Tables D-4, D-5) mitigation, will be used… …The established procedures are based upon the incident level and a graded approach for nonradioactive or CH TRU waste emergencies and initiated to: 1. Minimize contamination or contact (through PPE, etc.) 2. Limit migration of contaminants 3. Properly dispose of contaminated materials		contaminated areas require appropriate PPE. Chemicals have been identified as addressed in Section D-4b. Drainage controls are not applicable since the breached container(s) is in the underground. Stabilization of physical controls is not applicable to this event. Capping of contaminated soils to reduce migration is not applicable to this event since soils are not involved. The use of fixatives to control radioactivity is currently being evaluated and will be addressed in the WIPP Recovery Plan. Excavation, consolidation, removal, or disposal of contaminated soils are not applicable to this event since soils are not involved. There are currently no plans to remove waste containers from the underground. The NMED has issued a third administrative order which requires the Permittees to develop a plan for closing the areas of most risk. This plan was submitted by the DOE to the NMED on May 30, 2014. Radiological monitoring is ongoing at surface Stations A and B. Equipment used to ensure protection are inspected in accordance with Permit Attachment E, Table E-1. HEPA filtration is currently being used to limit radiological releases.

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			The most effective methods for mitigation will be addressed during recovery. Procedures are in place to address these requirements. Radiological work permits specify the appropriate PPE and other measures to be taken to minimize personnel exposure. HEPA filtration limits migration of radionuclides and radiological releases. Derived waste has been generated as a result of underground ventilation filter change-out activities. This waste is currently being stored in the WHB and will be disposed of in the underground HWDU when disposal operations resume.
D-4d(6) Control of Spills or Leaking or Punctured Containers of CH and RH TRU Mixed Waste	In the event of spills or leaking or punctured containers of CH and RH TRU mixed waste, the WIPP responds to three distinct phases: 1) the event, 2) the re-entry, and 3) the recovery. During the event, the following immediate actions are completed: 1) stop work, 2) warn others (notify CMR), 3) isolate the area, 4) minimize exposure, and 5) close off unfiltered ventilation. These actions can take place simultaneously, as long as they are completed before proceeding to the re-entry phase. <u>CH TRU Mixed Waste</u> Prior to the re-entry following an event involving containers that are managed as CH TRU mixed waste, a Radiological Work Permit (RWP) is written for personnel to enter with protective clothing to assess the conditions, take surveys and samples, and mitigate problems that could compound the hazards in the area (cover up spilled material with plastic material sheeting and or any approved fixatives such as paint, place equipment in a safe configuration, etc.). During the re-entry phase, smears and air sample filters are taken and counted. This information is used by cognizant managers, RC personnel, and As Low As Reasonably Achievable (ALARA) Committee representatives to determine an appropriate course of action to recover the area. A plan to decontaminate and recover affected areas and equipment will be approved with a separate RWP	The required activities described in this section (as they apply to CH TRU mixed waste) are applicable to the current implementation of the RCRA Contingency Plan because the radiation event did involve at least one punctured/breached container of CH TRU mixed waste. However this container has been disposed in the underground HWDU. The applicability of activities described in	The required immediate actions were conducted prior to re-entry into the underground. Radiological Work Permits (RWPs) have been developed and implemented to address re-entry activities, including assessing the extent of radiological contamination, the conditions of the underground, and required PPE. Work Control Documents are written such that work can be carried out under the RWPs. A WIPP Recovery Plan is being developed, and these required activities will be integrated with the WIPP Recovery Plan and recovery process as appropriate for disposed waste.

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	written to establish the radiological controls required for the recovery. During the recovery phase, the plan will be executed to utilize the necessary resources to conduct decontamination and/or overpacking operations as needed. The completion of this phase will occur prior to returning the affected area and/or equipment to normal activities. The recovery phase will include activities to minimize the spread of contamination to other areas. These activities will involve placing the waste material in another container; vacuuming the waste material; overpacking or plugging/patching the spilled, leaking, or punctured waste container; and/or decontaminating the affected area(s). If an affected surface cannot be decontaminated to releasable levels, it may be covered with a fixative coating and established as a Fixed Contamination Area to prevent spread of contamination, or it may be removed using heavy machinery and tools, packaged in approved waste containers, and emplaced in the underground. Every reasonable effort to minimize the amount of derived waste, while providing for the health and safety of personnel, will be made… … At the underground emplacement room, salt contaminated by a spill of CH TRU mixed waste would be either covered or cleaned up, depending on location, extent, and spilled material, due to potential radioactive contamination spread via the salt dust. The contaminated salt would be covered to isolate it from the workers, and the stacking of waste containers would resume or would be removed and packaged as site-derived waste using applicable site procedures for decontaminating surfaces… … Certain structures and/or equipment may be disassembled to facilitate decontamination or may be placed directly into a derived waste container. Items used in the spill cleanup and decontamination operations (e.g., swipes, tools, PPE, etc.) may also be placed into a derived waste container. When decontamination is deemed by the recovery team to be complete, RC personnel will conduct one final, intensive radcon survey of the area and components in the area to release it for uncontrolled use. The free release criteria for items, equipment, and areas is < 20 dpm/100 cm^2 for alpha radioactivity and < 200 dpm/100 cm^2 for beta-gamma radioactivity. Personnel will then perform hazardous material sampling after decontamination efforts are complete to verify the removal of hazardous waste substances. After cleanup is complete, facility personnel will complete an inspection and include the details of the spill and cleanup in the log.	this section, as they pertain to decontamination activities conducted under the current implementation of the RCRA Contingency Plan, will be addressed in the WIPP Recovery Plan.	
D-4d(10) Emergency	For the transition from emergency phase to cleanup phase, the following items will be complete:	The applicability of the activities described in	Required actions will be integrated with the WIPP Recovery Plan.

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Termination Procedures	• Emergency scene will be stable • Release of hazardous substance will be stopped • Reaction of hazardous substance will be controlled • The released hazardous substance will be contained within a localized and manageable area • The area of contamination will be adequately secure from unauthorized entry At every incident involving hazardous materials, there is a possibility that response personnel and their equipment will become contaminated. Emergency response personnel have procedures to minimize contamination or contact, and to properly dispose of contaminated materials. For nonemergencies and Incident Level I emergencies, the following methods of decontamination are available for personnel, environment, and/or equipment according to emergency response procedures: • Absorption • Adsorption • Chemical degradation • Dilution • Disposal • Isolation • Neutralization • Solidification Any necessary verification of air, soil, or water samples will be directed by the RCRA Emergency Coordinator. Immediately after an emergency, the RCRA Emergency Coordinator will provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire, or explosion at the facility in accordance with standard operating procedures. For Level II and III incidents after the emergency itself is controlled and contained, the RCRA Emergency Coordinator will be responsible for the development and implementation of an incident-specific decontamination plan. PPE will be decontaminated or disposed according to procedure before it is returned to its storage location. As part of the facility's defense-in-depth approach, equipment will be assumed to be contaminated after each hazardous material response and a thorough check	this section, as they pertain to the current implementation of the RCRA Contingency Plan, will be addressed in the WIPP Recovery Plan.	

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	for radioactive contamination will be conducted. If contamination is found, a technically sound decontamination process will be followed. Many types of equipment are difficult to decontaminate and may have to be discarded as hazardous or derived waste. Whenever possible, pieces of equipment will be disposable or made of nonporous material. If radioactive contamination is detected on equipment or on structures, it will be assumed that hazardous constituents may also be present. Radiological surveys to determine whether a potential release of hazardous constituents has occurred (Permit Attachment I3) will be used along with other techniques as a detection method to determine when decontamination is required. Radiological cleanup standards will be used to determine the effectiveness of decontamination efforts. To provide verification of the effectiveness of the removal of hazardous waste constituents, once a contaminated surface is demonstrated to be radiologically clean, the “swipe” can be sent for analysis for hazardous constituents. The use of these confirmation analyses is as follows: For waste containers, the analyses become documentation of the condition of the container at the time of emplacement. These containers will be placed in the underground without further action, once the radiological contamination is removed, unless there is visible evidence of hazardous waste spills or hazardous waste on the container and this contamination is considered likely to be released prior to emplacement in the underground. In no case shall these containers contain a total liquid content equal to, or which exceeds, one volume percent of the container. For area contamination, once the area is cleaned up and is shown to be radiologically clean, it will be sampled for the presence of hazardous waste residues. If the area is large, a sampling plan will be developed. The sampling plan will be approved by the NMED before it is implemented. If the area is small, swipes will be used. If the results of the analysis show that residual contamination remains, a decision will be made whether further cleaning will be beneficial or whether final clean up will be deferred until closure. Appropriate notations will be entered into the operating record to assure proper consideration of formerly contaminated areas at the time of closure. Furthermore, measures such as covering, barricading, and/or placarding will be used as needed to mark areas that remain contaminated. For all Contingency Plan emergency responses, the RCRA Emergency Coordinator will ensure, in keeping with standard operating procedures, that, in the affected area(s) of the facility: • No waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed		

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	• All emergency equipment listed in the Contingency Plan is cleaned and fit for its intended use, or replaced before operations are resumed		
D-4e Prevention of Recurrence or Spread of Fires, Explosions, or Releases	During an emergency, the RCRA Emergency Coordinator will ensure that reasonable measures are taken so that fires, explosions, and releases do not occur, recur, or spread to TRU mixed waste or other hazardous materials at the facility, as required under 20.4.1.500 NMAC (incorporating 40 CFR §§264.56(e) and (f)). These measures include: • Stopping processes and operations. • Collecting and containing released wastes and materials. • Removing or isolating containers of waste or hazardous substances posing a threat. • Ensuring that wastes managed during an emergency are handled, stored, or treated with due consideration for compatibility with other wastes and materials on site and with containers utilized (Section D-4h). • Restricting personnel not needed for response activities from the scene of the incident. • Evacuating the area. • Curtailing nonessential activities in the area. • Conducting preliminary inspections of adjacent facilities and equipment to assess damage. • Overpacking and/or removing damaged containers/drums from affected areas. Damaged equipment and facilities will be repaired as appropriate. • Constructing, monitoring, and reinforcing temporary dikes as needed. • Maintaining fire equipment on standby at the incident site in cases where ignitable liquids have been or may be released and ensuring that all ignition sources are kept out of the area. Ignitable liquids will be segregated, contained, confined, diluted, or otherwise controlled to preclude inadvertent explosion or detonation. No operation that has been shut down in response to the incident will be restarted until authorized by the RCRA Emergency Coordinator. Sections D-4g, Incompatible Waste, and D-4h, Post-Emergency Facility and Equipment Maintenance and Reporting, address specific issues related to decreasing the possibility of a recurrence or spread of a release, a fire, or an explosion. After resolution of the incident, a Root Cause Analysis will be conducted to review all Level II and Level III incidents for determination of cause, and the corrective action plan to prevent recurrence.	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	At the time of the radiation release, many of these measured were implemented, but they are no longer applicable to this event. Any remaining threats will be addressed in response to the NMED's third administrative order, which required the Permittees to develop an expedited closure plan for Panel 6 and Panel 7, Room 7. Required actions associated with closure of the affected areas will be integrated with the WIPP Recovery Plan.

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D-4f Management and Containment of Released Material and Waste	Once initial release or spill containment has been completed, the RCRA Emergency Coordinator will ensure that recovered hazardous materials and waste are properly stored and/or disposed, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.56(g)). For spills of liquid, the perimeter of the spill will be diked with an absorbent material that is compatible with the material(s) released. Free-standing liquid will be transferred to a marked compatible container. The remaining liquid will be absorbed with an absorbent material and swept or scooped into a marked compatible container. Spill residue will be removed. Spills of dry material will be swept or shoveled into a labeled compatible recovery container. Material recovered from the spill will be transferred to clean containers or tanks or to containers or tanks that have held a compatible material. All containers will meet DOT specifications for shipping the wastes, and materials will be recovered. Nonradioactive hazardous waste resulting from the cleanup of a fire, an explosion, or a release involving a nonradioactive hazardous waste or hazardous substance at the WIPP facility will be contained and managed as a hazardous waste until such time as the waste is disposed of, or determined to be nonhazardous, as defined in 20.4.1.200 NMAC (incorporating 40 CFR §261) Subparts C and D. In most cases, hazardous materials inventories for the various buildings and areas at the facility will allow a determination of the hazardous materials present in any cleanup of a release or of the residues from an emergency condition (The quantities of such spills are so small, it is not likely to trigger an Incident Level II or III). When necessary samples of the waste will be collected and analyzed to determine the presence of any hazardous characteristics and/or hazardous waste constituents; this information is needed to evaluate disposal options. EPA-approved sampling and analytical methods will be utilized. Hazardous wastes will be transferred to the Hazardous Waste Staging Area. The staging area is used to store hazardous waste awaiting transfer to an off-site treatment or disposal facility in accordance with applicable regulations (e.g., 20.4.1 NMAC and DOT regulations). The Hazardous Waste Staging Area for nonradioactive hazardous waste is Buildings 474A and 474B, as shown in Figure D-1. Nonradioactive hazardous wastes will be shipped off-site for disposal at a RCRA permitted disposal facility. Under normal operations, administrative controls will be implemented to ensure that hazardous materials and incompatible materials will not be introduced to the radioactive materials area during TRU mixed waste handling operations. Examples of administrative controls include restricting the waste received in the TRU mixed waste management area(s) to TRU mixed waste properly manifested from the generator sites and ensuring that materials used in these area(s) are restricted to only those that have previously been determined to be compatible	The applicability of the activities described in this section, as they pertain to the current implementation of the RCRA Contingency Plan, will be addressed in the WIPP Recovery Plan.	Required actions will be integrated with the WIPP Recovery Plan.

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	with the TRU mixed waste. The RCRA Emergency Coordinator will have access to building design information and information on specific equipment used within an area upon which to base a determination of the compatibility of materials with the area. If necessary, the RCRA Emergency Coordinator will use EPA-600/2-80-076, "A Method for Determining the Compatibility of Hazardous Waste," (EPA, 1980) for making compatibility determinations. Waste resulting from the cleanup of a fire, explosion, or release in the miscellaneous unit, the CH TRU mixed waste handling areas, or the RH Complex will be considered derived from the received TRU mixed waste and may be treated and managed as CH TRU mixed waste depending on the surface dose rate. In the event of a prolonged cessation of TRU mixed waste handling operations, TRU mixed waste can be placed in areas of the WHB Unit that are available for such contingencies. These areas and the TRU mixed waste containers in them would be located so that adequate aisle space would be maintained for unobstructed movement of personnel and equipment in an emergency. Permit Attachments A1 and A2 describe the HWMUs in detail, including the facility description, support structures and equipment, security, waste handling areas, ventilation, and fire protection. The contaminated area will be decontaminated. If a release is to a permeable surface, such as soil, asphalt, concrete, or other surface, the surface material will be removed and placed in containers meeting applicable DOT requirements. Contaminated soil, asphalt, concrete, or other surface material, as well as materials used in the cleanup (e.g., rags and absorbent material) will be contained and disposed of in the same manner as dictated for the contaminant. Clean soil, new asphalt, or new concrete will be emplaced at the spill location. If a spill occurs on an impermeable surface, the surface will be decontaminated with water and/or a detergent. In the event that the spilled material is water reactive, a compatible nonhazardous cleaning solution will be used. Contaminated wash water or cleaning solution will be transferred to an appropriate container, marked, and managed as described above for nonradioactive or radioactive liquid wastes. In the event of a hazardous material or hazardous waste release, the RCRA Emergency Coordinator will ensure that no wastes will be received or disposed of in the affected areas until cleanup operations have been completed. This is to ensure that incompatible waste will not be present in the vicinity of the release. Because of the restrictions which the WIPP facility places on generators, and because of control of WIPP operations, TRU mixed wastes and derived wastes will not contain any incompatible wastes. However, the areas established for the temporary holding of nonradioactive waste routinely generated at the WIPP facility is divided into bays to accommodate the management of wastes that may		

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	be incompatible. If waste is generated as the result of a spill or release of hazardous materials or nonradioactive hazardous waste, the waste generated as a result of abatement and cleanup will be evaluated to determine its compatibility with other wastes being managed in the temporary holding areas. The evaluation will be by identifying the material or waste that was spilled or released and determining its characteristics (e.g., ignitable, reactive, corrosive, or toxic). The waste generated by the abatement and cleanup activities will be stored in that part of the temporary holding area that has been established to manage wastes with which it is compatible. For small nonemergency liquid spills (e.g., a detergent solution leaking out of the pump handle during decontamination, a spill of hydraulic fluid while servicing a vehicle), spill control procedures will be used to contain and absorb free-standing liquid. The contaminated absorbent will be swept or shoveled into a compatible container and managed as described above. No notifications will be required, but site procedures require documentation of the incident.		
D-4g Incompatible Waste	Implementation of the TSDF-WAC for the WIPP ensures that incompatible TRU mixed waste will not be shipped to the WIPP facility. Nonradioactive waste at the WIPP facility will be carefully segregated during handling and holding and will be transported within and off the facility. The RCRA Emergency Coordinator will not allow hazardous or TRU mixed waste operations to resume in a building or area in which incompatible materials have been released prior to completion of necessary post-emergency cleanup operations to remove potentially incompatible materials. In making the determination of compatibility, the RCRA Emergency Coordinator will have available the resources and information described in Section D-4b, Identification of Hazardous Materials. In addition, ES&H department personnel will be available for consultation. Finally, the RCRA Emergency Coordinator may use EPA-600/2-80-076, (EPA, 1980).	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	These requirements are addressed using site standard operating procedures.
D-4h Post-Emergency Facility and Equipment Maintenance Reporting	The RCRA Emergency Coordinator will ensure that emergency equipment that is located or used in the affected area(s) of the facility and listed in the Contingency Plan is cleaned and ready for its intended use before operations are resumed, as specified in 20.4.1.500 NMAC (incorporating 40 CFR §264.56(h)(2)). Any equipment that cannot be decontaminated will be discarded as waste (e.g., hazardous, mixed, solid), as appropriate. The WIPP facility is committed to replacing any needed equipment or supplies that cannot be reused following an emergency. After the equipment has been cleaned, repaired, or replaced, a post-emergency facility and equipment inspection will be performed, and the results will be documented. Cleaning and decontaminating equipment will be accomplished by physically removing gross or solid residue; rinsing with water or another suitable liquid, if	The applicability of the activities described in this section, as they pertain to the current implementation of the RCRA Contingency Plan, will be addressed in the WIPP Recovery Plan.	Required actions will be integrated with the WIPP Recovery Plan.

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	required; and/or washing with detergent and water. Decontamination and cleaning will be conducted in a confined area, such as a wash pad or building equipped with a floor drain and sump isolated from the environment. Care will be taken to prevent wind dispersion of particles and spray. Liquid or particulate resulting from cleaning and decontamination of equipment will be placed in clean, compatible containers. Waste produced in an emergency cleanup in the TRU mixed waste handling areas is derived waste and will be emplaced in the underground derived waste emplacement area. Waste resulting from decontamination operations elsewhere in the WIPP facility will be analyzed for hazardous waste constituents and/or hazardous waste characteristics to ensure proper management. When the WIPP facility has completed post-emergency cleanup of waste and hazardous residues from areas where waste management operations are ready to resume and the RCRA Emergency Coordinator has ensured that emergency equipment used in managing the emergency has been cleaned or replaced and is fit for service, the notifications will be made by the Permittees to the following: the EPA Region VI Administrator; the Secretary of the NMED; and any relevant local authorities. This post-emergency notification complies with 20.4.1.500 NMAC (incorporating 40 CFR §264.56(i)), and is the responsibility of the RCRA Emergency Coordinator.		
D-5 Emergency Equipment	A variety of equipment is available at the facility for emergency response, containment, and cleanup operations in both the HWMUs and the facility in general. This includes equipment for spill control, fire control, personnel protection, monitoring, first aid and medical attention, communications, and alarms. This equipment is immediately available to emergency response personnel. A listing of major emergency equipment available at the WIPP facility, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.52(e)), is shown in Table D-6. Table D-7 identifies the locations where fire suppression systems are provided. Locations of the underground emergency equipment are shown in Figure D-5. The firewater-distribution system map is shown in Figure D-6. The underground fuel area fire-protection system is shown in Figure D-7.	Descriptive text.	Emergency equipment available as specified.
D-7 Evacuation Plan	If it becomes necessary to evacuate the WIPP facility, the assigned on-site and off-site staging areas have been established. The off-site staging areas are outside the security fence. The WIPP facility has implementation procedures for both surface and underground evacuations. Drills are performed on these procedures at the WIPP facility at least once annually. The following sections describe the evacuation plan for the WIPP facility, as required under 20.4.1.500 NMAC (incorporating 40 CFR §264.52(f)).	Descriptive text.	No actions required.
D-8	In accordance with 20.4.1.500 NMAC (incorporating 40 CFR §264.56(i)), the	The required activities	Required actions will be integrated

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Required Reports	Permittees will notify the Secretary of the NMED and EPA Region VI Administrator that the WIPP facility is in compliance with requirements for the cleanup of areas affected by the emergency and that emergency equipment used in the emergency response has been cleaned, repaired, or replaced and is fit for its intended use prior to the resumption of waste management operations in affected areas. The means the WIPP facility will use to meet these requirements are described in Sections D-4e, D-4f, D-4g, and D-4h.	described in this section are applicable to the current implementation of the RCRA Contingency Plan.	with the WIPP Recovery Plan.
D-9 Location of the Contingency Plan and Plan Revisions	The owner/operator of the WIPP facility will ensure that copies of this Contingency Plan are available to all emergency personnel and organizations described in Section D-2. When the Contingency Plan is revised, updated copies are manually distributed (electronically or via site mail) or hand delivered to applicable WIPP Facility emergency personnel and alternate Emergency Operations Center and Joint Information Center. In addition, the owner/operator will make copies available to the following outside agencies: • Intrepid Potash NM LLC and Mosaic Potash Carlsbad Inc. • Carlsbad Fire Department, Carlsbad • Carlsbad Medical Center, Carlsbad • Lea Regional Medical Center, Hobbs • Otis Fire Department, Otis • Hobbs Fire Department, Hobbs • Joel Fire Department, Carlsbad • BLM, Carlsbad • New Mexico State Police The owner/operator of the WIPP facility will ensure that this plan is reviewed annually and amended whenever: • Applicable regulations are revised • The RCRA Part B permit for the WIPP facility is revised in any way that would affect the Contingency Plan • This plan fails in an emergency • The WIPP facility design, construction, operation, maintenance, or other circumstances change in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous constituents or change the response necessary in an emergency • The list of RCRA Emergency Coordinators change • The list of WIPP facility emergency equipment changes.	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	Copies of the RCRA Contingency Plan are available as described.

Attachment 8
Corrective Actions Required for Recovery
(reserved)

Attachment 9
Waste Placement Layout Maps, Panel 7, Room 7
(reserved)

Attachment 10
Weekly Map Update, Panels 7 and 8 (reserved)

Attachment 11
As-Found Condition of Panel 7 (reserved)

Attachment 12
Panel 7 Recovery-Related Work (reserved)