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

JUN 13 2014

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NMED
Hazardous Waste Bureau

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 1, 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 1, 2014, as required by Item 18 of the May 12, 2014, Administrative Order issued under 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,

Jose R. Franco, Manager
Carlsbad Field Office

Robert L. McQuinn, Project Manager
Nuclear Waste Partnership LLC

Enclosure

cc:
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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 May 19, 2014, through June 1, 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 response to Paragraph 17(a) of AO2, the Permittees are preparing a draft *Underground Compliance Plan*, which is scheduled to be submitted to the NMED on or before June 26, 2014. Pertinent elements of the WIPP Recovery Plan will be integrated into the *Underground Compliance Plan* as these elements pertain to the Permit-related requirements addressed by the AOs. As information becomes available, the *Underground Compliance Plan* will outline a proposed timeline, including dates, for achieving underground recovery and attaining compliance with these Permit-required activities. 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.

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. The Permittees are preparing a draft *Underground Compliance Plan*, which is scheduled to be submitted to the NMED on or before June 26, 2014, in accordance with Paragraph 17(a) of AO2. As information becomes available, this plan will outline a proposed timeline, including dates, for achieving underground recovery and attaining compliance with these Permit-required activities.

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:

<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. The Permittees are preparing a draft *Underground Compliance Plan*, which is scheduled to be submitted to the NMED on or before June 26, 2014, in accordance with Paragraph 17(a) of AO2. As information becomes available, this plan will outline a proposed timeline, including dates, for achieving underground recovery and attaining compliance with these Permit-required 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. The Permittees are preparing a draft *Underground Compliance Plan*, which is scheduled to be submitted to the NMED on or before June 26, 2014, in accordance with Paragraph 17(a) of AO2. As information becomes available, this plan will outline a proposed timeline, including dates, for achieving underground recovery and attaining compliance with these Permit-required activities.

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. The Permittees are preparing a draft *Underground Compliance Plan*, which is scheduled to be submitted to the NMED on or before June 26, 2014, in accordance with Paragraph 17(a) of AO2. As information becomes available, this plan will outline a proposed timeline, including dates, for achieving underground recovery and attaining compliance with these Permit-required 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. The Permittees are preparing a draft *Underground Compliance Plan*, which is scheduled to be submitted to the NMED on or before June 26, 2014, in accordance with Paragraph 17(a) of AO2. As information becomes available, this plan will outline a proposed timeline, including dates, for achieving underground recovery and attaining compliance with these Permit-required activities.

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 provided in the initial March 17, 2014, weekly submittal to the NMED.

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.

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.

  Invalid data were recorded by the solar radiation sensor from 12:15 a.m. on May 19, 2014, through 6:00 p.m. on May 20, 2014. The sensor then appeared to correct itself. In order to meet the 90-percent completeness criterion for these data, a data replacement method was reviewed and approved by a quality-assurance representative and the cognizant engineer. Data from the solar radiation sensor are not used for modeling purposes. Therefore, it was

determined that the invalid data recorded by the solar radiation sensor would be substituted by the solar radiation data from the same sensor and from the same calendar days in 2013. No other data for the affected time periods required substitution. The substituted solar radiation data from 2013 are considered valid and are reported in Attachment 4 for the relevant time period. An Action Request was issued on May 19, 2014, to address the malfunctioning solar radiation sensor.

- 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. At approximately 1:58 p.m. on June 1, 2014, testing began to ensure that the 41-B-860C Fan could operate on one filter bank with auxiliary air makeup from the inlet duct of 41-B-860A. During this time, HEPA-filter differential pressure began to drop across the 41-B-856 bank. The test was successful, and Filter Bank 41-B-856 remains isolated in preparation for the ventilation filter replacement, which will be an important step towards facilitating the WIPP recovery process and is scheduled to begin during the week of June 9, 2014. Currently only Filter Bank 41-B-857 is operating.

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:

The draft *Underground Derived Waste Storage Plan* is scheduled to be submitted to the NMED on or before June 26, 2014, in accordance with Paragraph 17(b) of AO2. To date, none of the waste that has been generated as a result of recovery activities has been characterized as TRU mixed waste using the derived waste process described in the Permit. As derived waste is generated during recovery and decontamination activities, the information requested by both AO1 and AO2 will be provided in 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 of the RCRA Contingency Plan, as they pertain to the April 11, 2014, implementation of the RCRA Contingency Plan.

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:

On February 7, 2014, an Accident Investigation Board (AIB) was appointed by the U.S. Department of Energy (DOE) to investigate the salt haul trick fire at the WIPP facility that occurred on February 5, 2014. The investigation was conducted in accordance with the DOE Order 225.1B, *Accident Investigations.* The AIB issued a report in March which included 35 Judgements of Need (JONs), which are specific issues or concerns that require corrective actions. The report concluded that the fire was the result of flammable fluids, i.e., hydraulic fuel or diesel fuel, coming into contact with a hot surface.

On March 4, 2014, the AIB was appointed to investigate a radiological release event that occurred at the WIPP facility on February 14, 2014. The investigation was conducted in accordance with the DOE Order 225.1B, *Accident Investigations.* An initial report (Phase I) pertaining to this event was issued in April 2014 and included 47 JONs.

See Attachment 8, *Corrective Actions Required for Recovery*, for a listing of JONs associated with both reports issued by the AIB.

On March 25, 2014, and May 29, 2014, the U.S. Environmental Protection Agency (EPA), Region 6, granted extensions to the storage time of Polychlorinated Biphenyl (PCB) TRU and TRU mixed waste by 45 days and 60 days, respectively. These extensions of time

were consistent to those granted by the NMED in AO1 and, subsequently, on May 16, 2014. Conditions to these storage extensions included the following: 1) no new off-site generated PCB waste may be received at the WIPP facility until normal operations resume and 2) a copy of the report required by the NMED per the effective AO (i.e., this bi-weekly report) will be provided to EPA, Region 6.

At this time, no other additional requirements have been 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.

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:

See Attachment 9, *Waste Placement Layout Maps*, and the enclosed compact disc for the PDF files of the waste placement layout maps for CH and RH waste in Panel 7, Room 7.

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:

See Attachment 10, *Weekly Map Update*.

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:

See Attachment 11, *As-Found Condition of Panel 7*.

Based on contamination detected in the underground during re-entry, it was determined that the source of the radiological release was in Panel 7, Room 7. Upon entry into Room 7, the mine structure of Panel 7 was found to be in sound condition and no geomechanical failures are evident (Photos 11.1 and 11.2). An apparent thermal event has caused the melting of the packaging material associated with several of the bags containing MgO, an engineered barrier used to inhibit long-term radionuclide migration outside the repository. As can be seen in Photo 11.3, piles of MgO have been observed on top the waste stacks in Panel 7, Room 7. Some of the slip sheets used to emplace the waste have been damaged (Photo 11.4), and there appears to be heat-related damage to some of the waste containers and the ribs of the repository (Photo 11.2). Re-entry activities have discovered evidence of at least one breached container from the LA-MIN02-V.001 waste stream generated at the Los Alamos National Laboratory (Photo 11.4). It appears that a chemical reaction involved in the container created sufficient heat to breach the lid to the container and cause a release. The event did not appear to involve an explosion. The bulkhead adjacent to the waste stack in Panel 7, Room 7 does not appear to display signs of pressure (Photo 11.5). There is no evidence of fallen or spilled containers of TRU-mixed waste (Photo 11.1). Radiation survey maps depicting the extent of radiological contamination found to date are provided in Attachment 11.

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:

Construction of the substantial barrier and bulkhead structures in Panel 6 was suspended when a vehicle fire in another part of the mine required the immediate evacuation of the underground on February 5, 2014. Work on these structures was not resumed prior to the radiological release event on February 14, 2014. The substantial barrier (defined in Permit Part 1, Section 1.5.13.) has been installed in Panel 6, S-2750 drift (ventilation air intake side) and the chain link and brattice cloth is in place. In the S-3080 drift (ventilation air exhaust side) the brattice cloth and chain link have been dropped from the back (room ceiling) but the run of mine salt (or other non-flammable material pursuant to Permit Attachment N1, Figure N1-1) has not been placed against the waste. Visual inspections from the W-170 drift indicate that these structures are still intact. Bulkheads have not yet been installed in either drift. No photographs have been taken of Panel 6, and no radiation survey maps within the panel are available.

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 are currently performing radiological surveys during underground re-entries. 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 to which 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 and preparing for an underground ventilation filter change out, which will be an important step in the recovery process. 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*.

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.

The following areas have been cleaned of soot accumulation in the Waste Handling Building:

- Facility Cask Loading Room
- Cask Unloading Room
- RH Bay

- Access Area of the RH Bay
- Room 108
- Conveyance Car Loading Room
- Mechanical Equipment Room

Clean-up efforts are ongoing in the Contact-handled (CH) Bay and TRUPACT Maintenance Room.

The following areas have been cleaned of soot accumulation in the Waste Hoist Tower:

- Shaft Entry Room
- 2nd Floor
- 3rd Floor
- 4th Floor
- 5th Floor

Clean-up efforts are ongoing in the Radiological Buffer Area and the Waste Hoist Collar. The heating, ventilation, and air-conditioning (HVAC) filters are scheduled to be removed from the Waste Hoist Control Room in early June, and the Waste Hoist Control Room ventilation system is scheduled to be cleaned during the same time frame. During mid-June, the inside of the hoist motor cooling duct, fan, cooling coil, and filter housing are scheduled to be cleaned. 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)	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.
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	TBD	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	TBD	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)	Comments
Explosion-Isolation Walls	Underground Operations	Quarterly	Integrity and Deterioration of Accessible Areas	Not Current	N/A	TBD	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	TBD	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.
Ambulances (Surface) and related emergency supplies and equipment	Emergency Services	Weekly	12-FP0030 Inspecting for Mechanical Operability, Deterioration, and Required Equipment	Current	6/1/14	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	TBD	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)	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	TBD	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	TBD	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	5/26/14	N/A	
Fire Sprinkler Systems	Emergency Services	Monthly/quarterly	WP 12-FP0025 Inspecting for Deterioration, Leaks/Spills, static pressures, and removable strainers	Current	5/26/14, 5/27/14, 5/28/14	N/A	
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	5/30/14	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)	Comments
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	TBD	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	5/27/14	N/A	
Miners First Aid Station	Emergency Services	Quarterly	12-FP0035 Inspecting for Required Equipment	Not Current	2/8/14	TBD	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	5/31/14	N/A	
Rescue Truck (Surface)	Emergency Services	Weekly	12-FP0030 and 12-FP0033 Inspecting for Mechanical Operability, Deterioration, Leaks/Spills, and Required Equipment	Current	5/29/14	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	TBD	Equipment is not accessible due to the fire and radiological events, and inspections cannot be performed.
Vehicle Siren (Surface Vehicles)	Emergency Services	Weekly	Functional Test included with inspection of the Ambulances, Fire Trucks, and Rescue Trucks	Current	5/29/14, 5/30/14, 6/1/14	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)	Comments
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	TBD	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	5/30/14 (41-T-035)	N/A	There are four ACGLF's, 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	TBD	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	TBD	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	5/21/14 (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.
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	5/28/14 (41-H-012D) 5/29/14 (41-H-051) 5/30/14 (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.

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)	Comments
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	TBD	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	5/26/14 (Weekly) 6/1/14 (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	TBD	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	TBD	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.
Waste Handling Cranes	Waste Handling	Preoperational	WP 05-WH1407 Inspecting for Mechanical Operability, Deterioration, and Leaks/Spills	Current	5/30/14 (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	5/30/14 (41-T-160B)	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)	Comments
Push-Pull Attachment (Underground)	Waste Handling	Preoperational	WP 05-WH1401 Inspecting for Damage and Deterioration	Current	2/5/14	TBD	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	5/21/14 (41-H-151B) 5/28/14 (41-H-046)	N/A	There are three Trailer Jockey's, but the pre-operational inspection was only performed on the two listed. The other Trailer Jockey will be inspected prior to use.
Bolting Robot	Waste Handling	Preoperational	WP 05-WH1203 Mechanical Operability	Current	6/29/12	TBD	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	5/18/14 (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	5/19/14 (41-Z-041)	N/A	
Monorail Hoist	Waste Handling	Preoperational	WP 05-WH1202 Mechanical Operability, and leaks/spills	Current	5/14/14 (41-H-027)	N/A	
Bolting Station	Waste Handling	Preoperational	WP 05-WH1203 Mechanical Operability, Deterioration, and Guards in proper place	Current	5/14/14 (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	6/1/14	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)	Comments
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	TBD	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	TBD	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	6/1/14	N/A	
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	6/1/14	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	6/1/14	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	

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)	Comments
Eye Wash and Shower Equipment (Surface)	Equipment Custodian	Weekly	WP 12-IS1832 Inspecting for Deterioration	Current	5/26/14, 5/27/14, 5/28/14	N/A	
Eye Wash and Shower Equipment (Underground)	Equipment Custodian	Weekly	WP 12-IS1832 Inspecting for Deterioration	Not Current	N/A	TBD	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	6/1/14	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.
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)	TBD	Equipment not in use due to the fire and radiological events. The underground is not accessible, and inspections cannot be performed.

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
---	19 Shipments	---	---	---	---	---	57 Assemblies	144 Containers	5,137.40 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).

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: 5/19/14 - 5/25/14

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	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]		58.24	58.49	58.05	58.88	58.2	57.88	58.21	57.54	68.35	58.23	57.84	57.57	57.96	58.04	59.22
413-CP-307-01J																			
700A U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]		TAG 3	TAG 3	TAG 3	TAG 3	TAG 3	TAG 3	TAG 3	TAG 3	TAG 3	TAG 3	TAG 3	TAG 3	TAG 3	TAG 3	TAG 3
413-CP-307-01K																			
700B U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]		TAG 4	TAG 4	TAG 4	TAG 4	TAG 4	TAG 4	TAG 4	TAG 4	TAG 4	TAG 4	TAG 4	TAG 4	TAG 4	TAG 4	TAG 4
413-CP-307-01H																			
700C U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]		TAG 5	TAG 5	TAG 5	TAG 5	TAG 5	TAG 5	TAG 5	TAG 5	TAG 5	TAG 5	TAG 5	TAG 5	TAG 5	TAG 5	TAG 5

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) Correct 860 Low Flow (AR #1404207) (3) Outof Spec (AR# 113257) (5) Outof Spec (AR# 113256)
(2) Alarm OOS (AR # 1307584) (4) Outof Spec (AR# 113255)

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Facility Site Operations and Infrastructure Ventilation Fans Round Sheet

DATE: 052614-060114

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	Original Signatures on File													
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]		59.22	57.6	59.70	57.52	58.74	58.08	59.5	58.7	59.11	58.98	59.21	59.62	59.71	57.98	59.62
413-CP-307-01J																			
700A U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]		Tag (3)	TAG (3)	TAG (3)	Tag (3)	TAG (3)	TAG (3)	TAG (3)	TAG (3)	Tag (3)	TAG (3)	TAG (3)	Tag (3)	TAG (3)	TAG (3)	TAG (3)
413-CP-307-01K																			
700B U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]		Tag (4)	TAG (4)	TAG (4)	Tag (4)	TAG (4)	TAG (4)	TAG (4)	TAG (4)	Tag (4)	TAG (4)	TAG (4)	Tag (4)	TAG (4)	TAG (4)	TAG (4)
413-CP-307-01H																			
700C U/G VENTILATION FAN (KSCFM)	[D]	[D]	[D]		Tag (5)	TAG (5)	TAG (5)	Tag (5)	TAG (5)	TAG (5)	TAG (5)	TAG (5)	Tag (5)	TAG (5)	TAG (5)	Tag (5)	TAG (5)	TAG (5)	TAG (5)

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) Correct 860 fan low flow - AR1404207 (3) Out of spec - AR113257 (5) Out of spec - AR113256.
(2) Alarm 005 - AR1307584 (4) Out of spec - AR113255

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

Date: 5/19/14-5/25/14

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				-.11	-.11		-.12		-.11		-.10		-.10		-.11		-.10
CH AREA ROOM 103 PDD-026B "wc	-0.02			-.10	-.10		-.11		-.11		-.11		-.11		-.11		-.11
SITE GEN WASTE RM. PDD-026C "wc				0	.13		.01		-.03		-.04		-.02		-.03		-.03
EQUIP DECON RM. PDD-026D "wc				-.10	.11		-.07		-.08		-.04		-.08		-.09		-.09
OVERPACK & REPAIR RM PDD-026E "wc	-0.04			-.14	.11		-.12		-.12		-.11		-.09		-.10		-.11
CAGE LOADING ROOM PDD-006 "wc				.04	.08		.05		.1		.02		.03		.06		.05
AIRLOCK ROOM 107 PDD-007 "wc				-.10	.07		-.08		-.07		-.07		-.08		-.08		-.06
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 (1)	114 (1)	118	116	116	115	116	114	115	116	118	116	116	117	118
K-015 AQUADEX INDICATOR		BLUE [A]		(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) low PRESSURE Alarm
(2) Pink CAR # 1405109

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

Date: 052614-060114

Location: COMPUTER STATIONS
CMR, FSM DESK, LOCAL
411, WHB MECH EQUIP RM 200 & 208

Original Signatures on File

ITEM	MIN	NORM	MAX	SUN	MON		TUES		WED		THURS		FRI		SAT		SUN	
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														
WHB CH ROOM DPs																		
SHIELDED STORAGE RM PDD-026A "wc				-.10	-.10		-.11		-.11		-.11		-.98		(2)		(2)	
CH AREA ROOM 103 PDD-026B "wc	-0.02			-.11	-.11		-.11		-.11		-.12		-.09					
SITE GEN WASTE RM. PDD-026C "wc				-.03	-.03		-.03		-.04		0		-.02					
EQUIP DECON RM. PDD-026D "wc				-.09	-.09		-.08		-.10		-.08		-.05					
OVERPACK & REPAIR RM PDD-026E "wc	-0.04			-.11	-.11		-.11		-.10		-.12		-.11					
CAGE LOADING ROOM PDD-006 "wc				.05	.05		.05		.05		.02		-.02					
AIRLOCK ROOM 107 PDD-007 "wc				-.06	-.08		-.07		-.08		-.08		-.06		✓		✓	
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	117	116	115	118	118	117	118	116	116	115	115	114	116	117	116
K-015 AQUADEX INDICATOR		BLUE [A]		(2) (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 - AR1405709
(2) Showing P

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

Date: 5/19/14 - 5/25/14

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		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:

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

Date: 052614-060114

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		SEC		SEC		(1)		(1)	
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) Showing?

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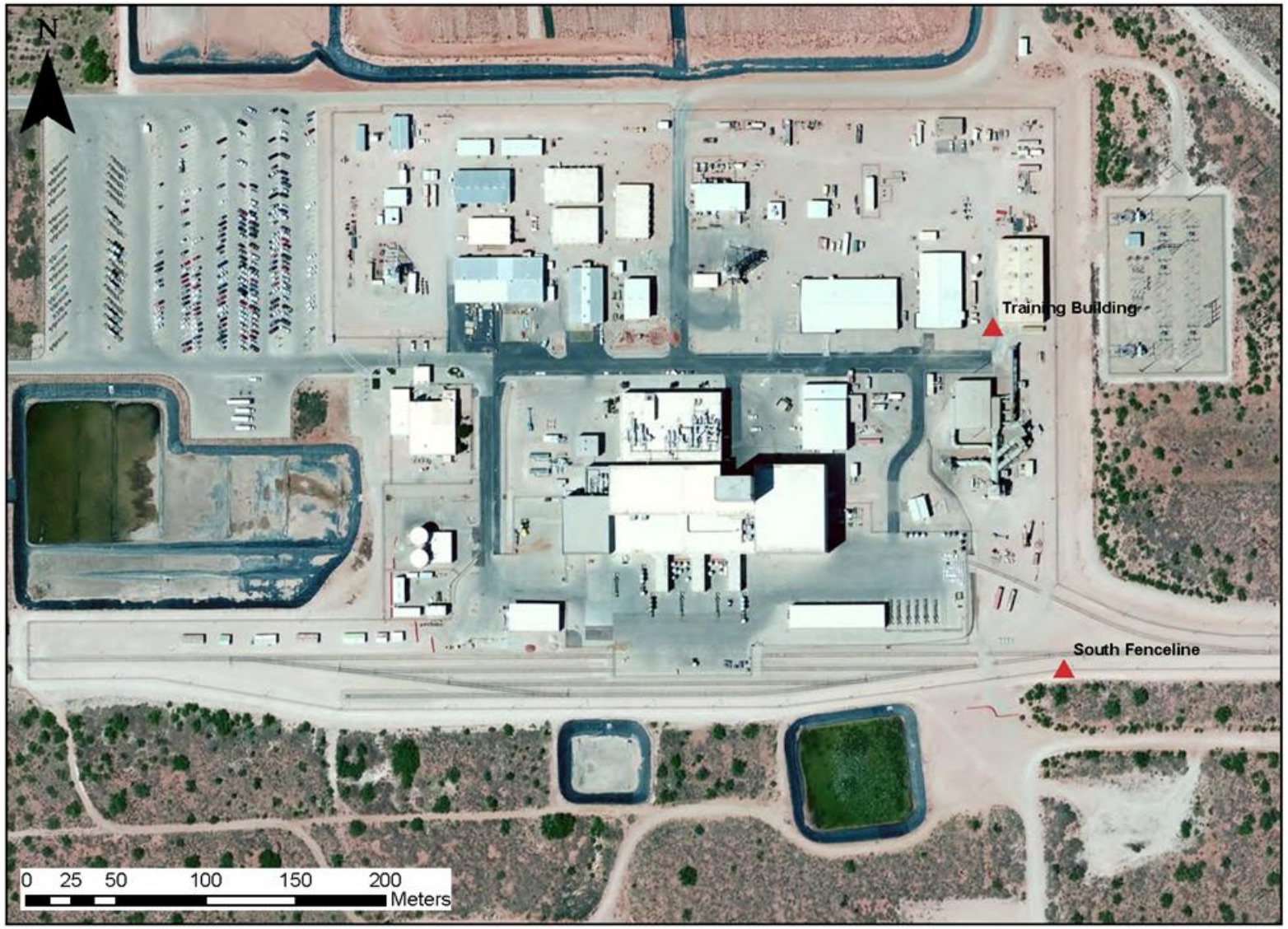
Attachment 4
Environmental Monitoring

- 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:

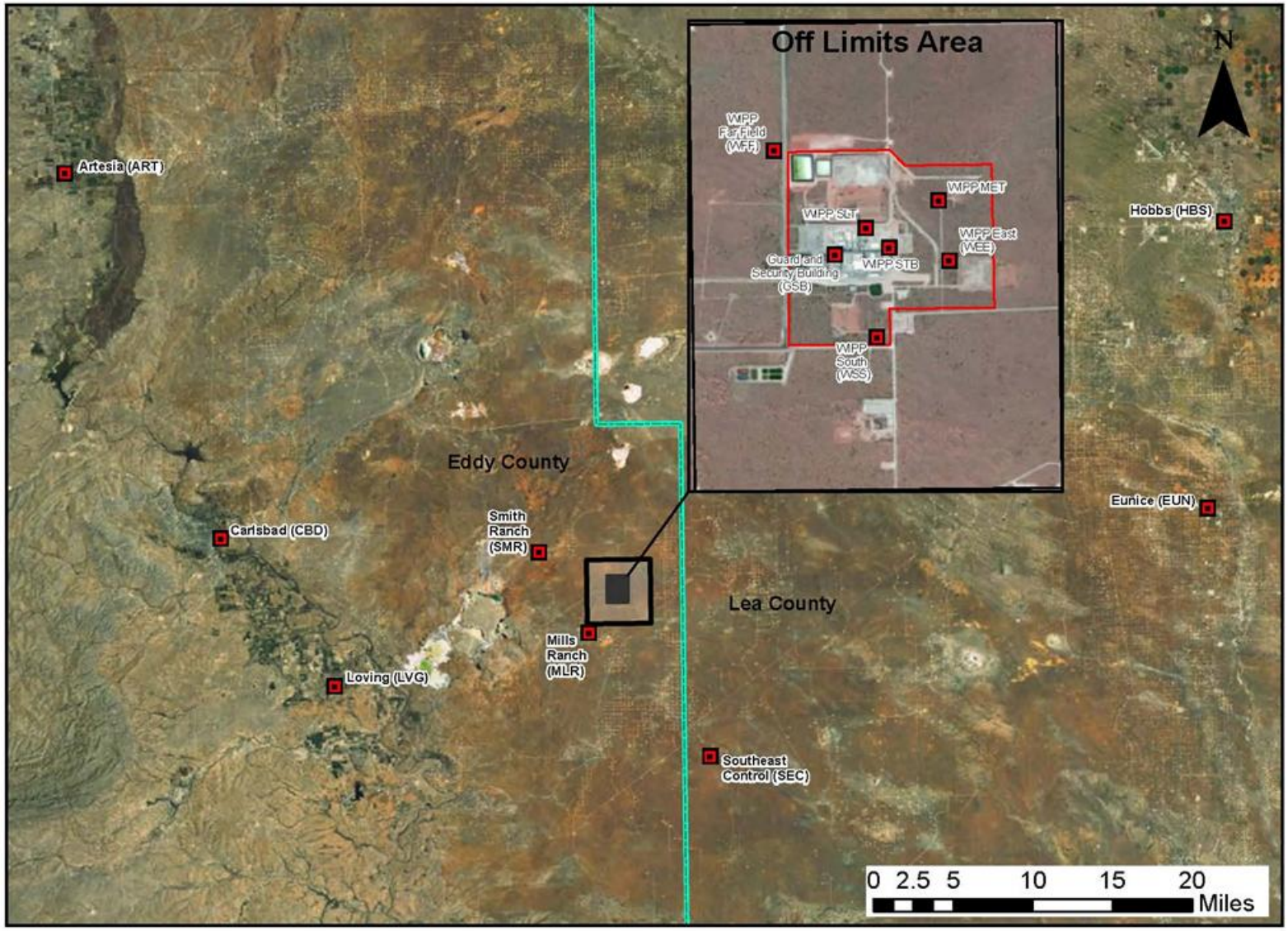
J = Estimated value; below laboratory's method reporting limit (MRL), but above method detection limit (MDL).
U = Compound not detected above the MDL.
NJ = Presumptive evidence of the presence of the compound at an estimated quantity; only used for tentatively identified compounds (TICs).

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 May- 19-14 to June-1-14

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
05/19/2014 00:15	65727	15	139	5.152	152.5	11.59	7.639	147.3	8.01	10.86	143.3	5.457	21.96	22.18	22.04	0.219	0.08	49.88	11.05	0.813	887	0
05/19/2014 00:30	65728	15	139	5.275	152.4	11.64	7.627	147.5	8.07	10.65	143.3	5.687	21.76	21.95	21.82	0.187	0.058	50.33	11	1.007	887	0
05/19/2014 00:45	65729	15	139	4.939	152.5	12.24	7.316	146.9	8.34	10.2	143.2	5.353	21.5	21.71	21.59	0.209	0.084	51	10.96	0.876	887	0
05/19/2014 01:00	65730	15	139	4.645	152.2	11.96	6.887	146.5	7.833	9.91	143.9	5.282	21.25	21.48	21.36	0.237	0.114	51.37	10.83	0.795	887	0
05/19/2014 01:15	65731	15	139	4.582	158.2	10.91	6.596	151.8	8.51	9.36	147.1	5.242	21	21.23	21.13	0.229	0.131	51.98	10.78	0.968	887	0
05/19/2014 01:30	65732	15	139	3.863	170.4	17.33	5.586	162.9	15.26	8.47	153.9	10.55	20.65	20.92	20.86	0.269	0.213	53	10.75	0.705	888	0
05/19/2014 01:45	65733	15	139	3.262	173.1	14.83	4.859	168.1	13.53	6.895	159.4	8.77	20.16	20.58	20.59	0.423	0.435	54.39	10.68	0.71	888	0
05/19/2014 02:00	65734	15	139	3.058	159.7	12.21	4.564	154.3	9.23	7.161	150	5.884	19.91	20.27	20.35	0.367	0.441	55.4	10.73	0.632	888	0
05/19/2014 02:15	65735	15	139	2.67	158.8	11.96	3.991	151.8	8.51	6.885	147.7	5.416	19.63	20.02	20.13	0.391	0.505	56.35	10.72	0.595	888	0
05/19/2014 02:30	65736	15	139	3.416	152.3	11.5	5.333	144.3	7.625	8.09	142.5	5.35	19.46	19.86	20.02	0.404	0.563	57.4	10.84	0.543	888	0
05/19/2014 02:45	65737	15	139	3.403	146.8	12.17	5.263	140.9	7.38	8	139.9	4.201	19.44	19.83	19.98	0.391	0.541	57.6	10.88	0.63	887	0
05/19/2014 03:00	65738	15	139	2.995	151.7	11.64	4.576	143.8	7.388	7.366	139.6	4.835	19.18	19.62	19.82	0.437	0.635	58.7	10.92	0.774	887	0
05/19/2014 03:15	65739	15	139	2.508	151.5	10.87	4.337	143.7	6.731	7.475	140.8	3.342	18.55	19.13	19.83	0.575	1.277	60.49	10.78	0.878	888	0
05/19/2014 03:30	65740	15	139	2.489	151.4	12.27	4.146	143.8	7.303	7.219	138.7	3.923	18.45	19.02	19.48	0.562	1.023	61.28	10.88	0.86	888	0
05/19/2014 03:45	65741	15	139	2.312	159.9	11.94	3.89	149.4	7.37	7.063	142	3.87	18.08	18.71	19.28	0.626	1.202	63.14	10.98	0.959	888	0
05/19/2014 04:00	65742	15	139	2.513	161.8	11.65	4.064	152.5	7.536	7.113	145.3	3.52	17.98	18.6	19.19	0.625	1.213	63.69	11.01	0.951	888	0
05/19/2014 04:15	65743	15	139	2.269	159.1	10.59	3.991	150.6	5.9	6.812	145.5	2.62	17.67	18.39	19.06	0.714	1.388	64.83	10.99	1.218	888	0
05/19/2014 04:30	65744	15	139	1.955	168	10.47	3.602	152.7	6.406	6.877	144.8	2.598	17.17	18.01	19.03	0.841	1.852	66.62	10.92	0.896	888	0
05/19/2014 04:45	65745	15	139	1.82	153.4	11.62	3.351	143.3	7.335	6.522	139.4	2.565	17.17	17.87	18.92	0.698	1.749	66.36	10.87	0.938	888	0
05/19/2014 05:00	65746	15	139	1.27	157.1	10.64	2.614	140.4	7.583	6.386	136.8	3.334	16.26	17.1	18.65	0.835	2.386	69.95	10.79	4.062	888	0
05/19/2014 05:15	65747	15	139	1.54	146.9	15.22	3.006	134.5	8.56	6.495	136.3	2.359	16.28	16.93	18.41	0.646	2.13	71.12	11.06	21.66	888	0
05/19/2014 05:30	65748	15	139	1.45	148.4	14.34	2.731	134.4	9.02	6.221	139.5	2.582	16.5	16.91	18.49	0.418	1.995	70.96	11.23	58.01	888	0
05/19/2014 05:45	65749	15	139	1.396	151.7	14.78	2.419	139.3	10.12	5.862	141.4	3.175	16.84	17.16	18.47	0.32	1.623	69.92	11.34	107.9	889	0
05/19/2014 06:00	65750	15	139	1.407	158.2	12.76	2.434	145.1	8.62	5.483	144.8	3.407	17.03	17.28	18.3	0.255	1.267	69.35	11.39	165.9	889	0
05/19/2014 06:15	65751	15	139	1.429	153.4	13.29	2.227	141.8	10.1	5.195	140.5	3.823	18	17.9	18.4	-0.101	0.397	66.63	11.71	225.9	889	0
05/19/2014 06:30	65752	15	139	2.033	163.7	12.18	2.642	154.1	10	4.196	150.3	7.715	19.59	19.25	18.92	-0.345	-0.674	60.05	11.63	286.5	889	0
05/19/2014 06:45	65753	15	139	2.946	173	11.91	3.891	165.3	9.37	4.756	160.6	5.712	20.91	20.42	19.91	-0.492	-1.002	53.82	11.22	346.3	889	0
05/19/2014 07:00	65754	15	139	3.576	169.8	11.92	4.68	163.2	8.56	5.468	162.3	5.815	21.65	21.08	20.45	-0.577	-1.2	50.6	10.98	405.6	889	0
05/19/2014 07:15	65755	15	139	3.509	176.3	11.58	4.625	169.2	8.26	5.223	164.3	6.036	21.81	21.26	20.67	-0.553	-1.142	49.9	10.92	466.3	889	0
05/19/2014 07:30	65756	15	139	3.323	174.4	12.64	4.339	168.1	8.51	4.758	166.4	5.33	22.18	21.65	21.09	-0.534	-1.089	47.99	10.67	521.9	889	0
05/19/2014 07:45	65757	15	139	3.108	171.8	12.41	3.823	166.8	8.64	4.114	167.7	6.816	23.11	22.22	21.56	-0.885	-1.541	44.77	10.46	573.6	889	0
05/19/2014 08:00	65758	15	139	3.02	197.3	16.77	3.834	189.5	15.51	4.344	184.6	10.15	24.42	23.31	22.59	-1.107	-1.826	38.59	9.42	623.8	889	0
05/19/2014 08:15	65759	15	139	2.951	200.6	18.7	3.737	192.7	17.77	4.251	190.5	13.06	24.82	23.95	23.31	-0.873	-1.514	35.13	8.39	673.6	890	0
05/19/2014 08:30	65760	15	139	3.142	201	14.3	3.791	195	10.92	4.236	194.4	7.363	25.16	24.35	23.65	-0.813	-1.514	34.21	8.3	724.2	890	0
05/19/2014 08:45	65761	15	139	2.967	203.8	13.68	3.607	198.4	12	3.974	194.3	9.01	25.75	24.92	24.29	-0.828	-1.456	32.03	7.845	774	890	0
05/19/2014 09:00	65762	15	139	3.018	210.4	12.02	3.824	204.8	8.63	4.331	202.5	9.2	26.75	25.89	25.29	-0.855	-1.452	27.24	6.283	820	890	0
05/19/2014 09:15	65763	15	139	2.931	210.1	17.56	3.635	206.3	13.1	4.155	206.6	10.24	27.56	26.76	26.06	-0.8	-1.496	22.5	4.27	863	890	0
05/19/2014 09:30	65764	15	139	2.778	234.5	18.1	3.36	229.3	15.82	3.89	223.1	13.67	29.17	28.11	27.26	-1.057	-1.904	16.95	1.509	905	890	0
05/19/2014 09:45	65765	15	139	3.201	239.2	14.71	3.824	236.3	13.07	4.413	232.3	10.06	30.3	29.26	28.41	-1.044	-1.886	11.96	-2.491	940	890	0
05/19/2014 10:00	65766	15	139	3.482	253.9	18.4	4.567	250.6	15.3	5.105	244.6	14.02	31.45	30.12	29.26	-1.327	-2.195	8.62	-5.893	971	889	0
05/19/2014 10:15	65767	15	139	3.223	262.2	17.88	4.234	257.4	14.92	5.22	253.5	12.29	31.74	30.65	29.75	-1.094	-1.99	6.892	-8.55	992	889	0
05/19/2014 10:30	65768	15	139	4.298	267.2	22.58	5.649	260.9	19.51	6.639	258.5	15.75	32.74	31.18	30.15	-1.562	-2.597	6.692	-8.18	1013	889	0
05/19/2014 10:45	65769	15	139	4.952	257.2	18.77	6.463	253.5	15.92	7.639	251	14.85	32.62	31.23	30.1	-1.393	-2.523	8.4	-5.311	1029	889	0
05/19/2014 11:00	65770	15	139	4.359	246.8	15.72	5.866	243.2	13.1	6.764	243	10.14	32.73	31.12	30.16	-1.606	-2.571	9.18	-4.012	1048	889	0
05/19/2014 11:15	65771	15	139	4.272	257.8	16.61	5.806	250.6	13.91	6.764	244.4	10.69	32.95	31.57	30.7	-1.386	-2.254	8.11	-5.5	1062	889	0
05/19/2014 11:30	65772	15	139	4.53	249.8	13.61	5.775	244.9	11.41	6.795	238.6	10.49	33.16	31.73	30.79	-1.434	-2.365	7.852	-5.789	1074	889	0
05/19/2014 11:45	65773	15	139	4.683	240.1	17.07	6.048	235.6	14.4	7.182	233.9	12.89	33.4	31.97	30.94	-1.429	-2.453	6.476	-8.13	1083	889	0
05/19/2014 12:00	65774	15	139	3.629	242.8	27.47	4.594	236.2	26.37	5.41	233	20.29	33.4	32.25	31.22	-1.157	-2.188	6.008	-9.09	1088	889	0
05/19/2014 12:15	65775	15	139	4.091	242.2	20.4	5.131	238.9	18.43	6.067	235.6	16.77	33.64	32.33	31.37	-1.311	-2.268	5.871	-9.22	1087	889	0
05/19/2014 12:30	65776	15	139	4.759	240.8	20.41	6.381	236.8	19.1	7.328	233.5	17.41	34.13	32.67	31.66	-1.468	-2.474	5.802	-9.02	1085	888	0
05/19/2014 12:45	65777	15	139	4.424	242.4	16.66	5.604	236.8	14.87	6.639	235.5	12.11	33.7	32.43	31.53	-1.271	-2.174	6.143	-8.6	1081	888	0
05/19/2014 13:00	65778	15	139	4.834	252.4	17.61	6.578	247.7	15.4	7.739	245	9.1	34.23	32.8	31.82	-1.428	-2.406	5.498	-9.91	1065	888	0
05/19/2014 13:15	65779	15	139	6.086	246.6	17.65	8.08	242.3	15.53	9.65	237.9	12.32	34.54	33.04	31.96	-1.505	-2.577	3.95	-13.71	1048	888	0
05/19/2014 13:30	65780	15	139	5.753	237.9	14.5	7.492	235	11.9	8.95	232.6	10.41	34.12	32.67	31.69	-1.456	-2.435	3.949	-13.94	1030	888	0
05/19/2014 13:45	65781	15	139	5.818	258.2	16.76	8.21	255	13.56	10.31	250.8	9.38	34.81	33.25	31.95	-1.558	-2.861	3.759	-14.19	1003	888	0
05/19/2014 14:00	65782	15	139	6.172	249.6	12.99	8.29	245	12.1	9.91	240.9	9.8	34.24	32.95	31.97	-1.284	-2.261	3.97	-13.84	966	888	0
05/19/2014 14:15	65783	15	139	5.908	238.9	13.99	7.729	234.9	12.3	9.25	231.3	9.3	34.33	33.02	32.08	-1.307	-2.242	4.008	-13.63	939	888	0
05/19/2014 14:30	65784	15	139	5.36	248.7	14.94	7.174	244	13.21	8.38	242.9	11.83	34.73	33.37	32.44	-1.358	-2.283	3.828	-13.91	896	888	0
05/19/2014 14:45	65785	15	139	5.568	253.4	13.96	7.678	249.6	12.65	9.35	246.2	9.82	34.57	33.48	32.52	-1.088	-2.042	3.81	-14.14	864	887	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/19/2014 15:00	65786	15	139	4.729	264.7	20.11	6.767	259.9	16.5	7.719	251.1	14.97	34.54	33.47	32.66	-1.068	-1.88	3.829	-14.02	821	887	0
05/19/2014 15:15	65787	15	139	4.868	259	14.17	7.015	255	13.57	8.67	251.1	9.29	34.97	33.86	32.89	-1.104	-2.078	3.75	-14.01	776.5	887	0
05/19/2014 15:30	65788	15	139	5.029	251.2	17.13	7.051	246.7	16.23	8.32	244.8	15	34.79	33.86	33.06	-0.922	-1.721	3.672	-14.42	728.5	887	0
05/19/2014 15:45	65789	15	139	5.042	249.3	14.57	6.804	247.1	12.14	8.48	245.7	9.98	34.83	33.92	33.19	-0.907	-1.636	3.703	-14.27	671.8	887	0
05/19/2014 16:00	65790	15	139	6.268	247.3	16.19	8.57	242	15	10.38	238.4	13.26	34.9	34.17	33.38	-0.73	-1.515	3.647	-14.47	623.9	887	0
05/19/2014 16:15	65791	15	139	6.09	244.7	13.03	8.14	242	11.37	10.3	240.2	9.46	34.26	33.77	33.1	-0.484	-1.157	3.739	-14.6	567.3	887	0
05/19/2014 16:30	65792	15	139	5.443	253	11.95	7.475	249.6	9.78	9.47	245.5	6.32	34.29	33.84	33.18	-0.452	-1.113	3.676	-14.77	515	887	0
05/19/2014 16:45	65793	15	139	5.543	252.5	12.03	7.777	250.3	9.17	9.88	246.5	6.394	34.31	33.84	33.19	-0.467	-1.117	3.654	-14.84	457.5	887	0
05/19/2014 17:00	65794	15	139	4.87	252.7	11.5	6.787	249.4	8.54	8.75	246.1	6.128	33.79	33.58	33.05	-0.212	-0.737	3.813	-14.61	395.5	887	0
05/19/2014 17:15	65795	15	139	4.886	245.9	11.09	6.627	243.5	9.26	8.71	241.8	5.391	33.48	33.41	32.96	-0.073	-0.52	3.801	-14.82	334.4	887	0
05/19/2014 17:30	65796	15	139	3.427	248.1	11.5	4.681	245	9.56	6.552	240.2	5.676	33.16	33.19	32.82	0.033	-0.335	3.905	-14.71	273.6	887	0
05/19/2014 17:45	65797	15	139	2.695	250.5	11.01	3.858	245.6	8.5	5.587	239.8	5.993	32.72	32.93	32.7	0.209	-0.021	4.144	-14.28	215.4	887	0
05/19/2014 18:00	65798	15	139	2.503	264.4	9.97	4.051	259.2	7.054	6.181	252.5	4.937	32.15	32.52	32.55	0.37	0.395	4.429	-13.85	156.5	887	0
05/19/2014 18:15	65799	15	139	2.48	270.3	9.4	4.482	265.9	6.68	7.149	260.2	3.312	31.67	32.08	32.3	0.407	0.621	4.717	-13.38	101.1	887	0
05/19/2014 18:30	65800	15	139	2.071	272.1	9.38	4.038	268.6	5.791	7.139	261.8	2.263	30.92	31.55	32.18	0.635	1.26	4.699	-13.96	52.45	887	0
05/19/2014 18:45	65801	15	139	1.652	272	8.53	3.722	267.5	4.761	7.221	260.2	1.291	30.09	31.08	32.3	0.994	2.209	4.739	-14.44	18.21	887	0
05/19/2014 19:00	65802	15	139	1.27	269.6	7.074	3.243	268	5.061	7.323	259.3	0.945	29.01	30.51	32.57	1.501	3.557	5.021	-14.48	3.178	887	0
05/19/2014 19:15	65803	15	139	1.497	271	8.15	3.745	267.4	4.823	7.195	257.2	2.163	28.75	30.4	32.55	1.642	3.794	5.133	-14.38	0.626	887	0
05/19/2014 19:30	65804	15	139	1.799	275.5	9.47	4.095	272.3	6.031	7.639	265.1	2.006	28.83	30.39	32.41	1.56	3.581	5.006	-14.63	0.486	887	0
05/19/2014 19:45	65805	15	139	2.486	290.9	13.82	4.16	285.7	7.654	7.759	275.4	4.266	28.91	30.07	31.91	1.16	3.002	5.26	-13.97	0.56	887	0
05/19/2014 20:00	65806	15	139	1.585	325.1	15.9	2.76	294.3	6.948	7.179	282	2.943	26.66	28.73	31.6	2.064	4.934	6.285	-13.43	0.694	887	0
05/19/2014 20:15	65807	15	139	1.169	329.7	15.56	2.32	296.5	7.711	6.715	284.4	1.758	25.9	28.09	31.17	2.193	5.27	7.063	-12.47	0.565	887	0
05/19/2014 20:30	65808	15	139	1.766	73.83	36.07	2.592	21.18	66.92	4.768	290.5	54.04	24.32	27.22	30.13	2.896	5.808	7.808	-12.4	0.368	887	0
05/19/2014 20:45	65809	15	139	4.695	146.9	20.17	6.872	145.2	20.52	8.87	151.8	17.72	28.33	28.99	30.19	0.66	1.866	7.121	-10.72	0.445	888	0
05/19/2014 21:00	65810	15	139	3.325	154.4	17.16	5.12	150.3	17.07	7.049	145.9	16.09	28.32	29.13	29.38	0.802	1.055	13.1	-3.446	0.627	888	0
05/19/2014 21:15	65811	15	139	2.251	148.1	14.85	3.658	142.8	9.97	5.939	141.1	8.07	26.94	27.69	27.86	0.753	0.921	25.52	5.462	0.54	889	0
05/19/2014 21:30	65812	15	139	3.161	153.5	11.69	5.028	148.1	8.27	7.864	148.4	5.398	26.35	26.91	27.13	0.559	0.777	32.23	8.46	0.719	889	0
05/19/2014 21:45	65813	15	139	3.119	151.8	12.17	5.045	146.1	7.499	8.02	147	5.174	25.57	26.12	26.49	0.554	0.926	34.91	8.95	0.456	889	0
05/19/2014 22:00	65814	15	139	2.563	140.1	11.29	4.301	135.5	6.943	7.608	138.8	3.779	24.51	25.17	25.79	0.66	1.278	37.93	9.25	0.468	889	0
05/19/2014 22:15	65815	15	139	2.938	142.9	11.06	4.639	137.8	7.121	7.965	139.7	4.257	24.3	24.78	25.17	0.478	0.873	41.13	10.27	0.441	889	0
05/19/2014 22:30	65816	15	139	3.248	145.8	11.69	5.014	140.5	8.19	8.18	139.5	5.105	24.14	24.57	24.79	0.424	0.651	44.04	11.16	0.472	889	0
05/19/2014 22:45	65817	15	139	3.526	144.5	11.37	5.326	139.5	7.907	8.68	137.7	4.955	23.94	24.31	24.49	0.378	0.555	47.17	12.01	0.336	889	0
05/19/2014 23:00	65818	15	139	3.62	145	10.86	5.581	138.7	7.285	8.83	138.2	4.544	23.65	24.02	24.2	0.372	0.558	49.23	12.4	0.397	889	0
05/19/2014 23:15	65819	15	139	3.829	146.5	12	5.85	140	7.864	8.94	137.4	4.825	23.5	23.86	23.98	0.364	0.482	50.46	12.64	0.383	889	0
05/19/2014 23:30	65820	15	139	3.834	144.3	11.75	5.825	139.8	8.33	9.23	138.4	5.508	23.15	23.5	23.67	0.35	0.519	51.57	12.65	0.547	889	0
05/19/2014 23:45	65821	15	139	3.578	148.7	11.33	5.646	142.9	7.34	9.1	141.5	4.427	22.98	23.37	23.57	0.383	0.582	51.82	12.57	0.96	889	0
05/20/2014 00:00	65822	15	140	3.342	145.8	12.05	5.228	141.1	8.28	8.44	140	5.169	22.72	23.14	23.33	0.42	0.607	52.39	12.49	0.735	889	0
05/20/2014 00:15	65823	15	140	3.511	143.5	11.66	5.41	137.2	7.897	8.56	137.7	4.466	22.58	22.96	23.14	0.384	0.567	52.23	12.31	0.659	889	0
05/20/2014 00:30	65824	15	140	3.588	139.2	11.45	5.536	132.8	7.411	8.83	133.7	4.266	22.29	22.71	22.93	0.415	0.641	52.69	12.18	0.612	889	0
05/20/2014 00:45	65825	15	140	3.401	135.2	11.15	5.227	130.9	7.307	8.23	132	4.501	21.94	22.37	22.63	0.424	0.689	53.24	12.02	0.644	889	0
05/20/2014 01:00	65826	15	140	3.137	135.6	11	4.746	131.2	7.346	7.83	131.8	4.582	21.7	22.13	22.46	0.43	0.762	53.1	11.75	0.969	889	0
05/20/2014 01:15	65827	15	140	2.877	137.5	11.16	4.601	131.2	6.489	7.76	131.8	3.487	21.25	21.73	22.17	0.482	0.92	54.14	11.63	0.366	889	0
05/20/2014 01:30	65828	15	140	2.543	134.7	10.77	4.174	129.1	6.675	7.409	131.2	3.559	20.76	21.27	21.85	0.515	1.098	55.53	11.55	0.249	889	0
05/20/2014 01:45	65829	15	140	2.397	139.7	12.05	4.162	132.1	7.24	7.449	132.7	3.61	20.47	21.05	21.7	0.573	1.227	55.89	11.39	0.361	889	0
05/20/2014 02:00	65830	15	140	2.012	139.5	11.12	3.542	132.2	6.828	6.85	133.3	3.512	20.12	20.75	21.52	0.635	1.399	56.27	11.16	0.579	889	0
05/20/2014 02:15	65831	15	140	1.754	139.2	10.86	3.279	131.4	6.492	6.382	135.3	3.616	19.73	20.54	21.5	0.805	1.77	57.16	11.03	1.593	889	0
05/20/2014 02:30	65832	15	140	1.735	135.2	11.99	3.316	128.3	7.237	6.573	135	4.072	19.65	20.43	21.48	0.78	1.827	57.25	10.98	0.687	889	0
05/20/2014 02:45	65833	15	140	2.142	132.9	12.27	3.671	128.5	7.858	6.316	135.2	5.187	19.98	20.68	21.31	0.706	1.331	56.23	11.01	0.428	889	0
05/20/2014 03:00	65834	15	140	1.513	130.6	12.19	2.949	125	7.735	6.21	133.4	3.553	19.44	20.25	21.31	0.803	1.869	57.1	10.75	0.283	889	0
05/20/2014 03:15	65835	15	140	1.468	124.5	12.97	3.159	120.9	6.764	6.401	132.7	3.545	18.88	19.83	21.27	0.957	2.39	59.38	10.8	0.35	889	0
05/20/2014 03:30	65836	15	140	1.82	134.7	11.07	3.636	127	5.812	6.478	136	3.414	18.88	19.91	21.27	1.037	2.391	59.49	10.83	0.382	889	0
05/20/2014 03:45	65837	15	140	1.51	139.4	12.74	3.315	130.6	5.549	6.287	139	3.393	18.42	19.59	21.16	1.168	2.744	60.87	10.75	0.374	890	0
05/20/2014 04:00	65838	15	140	0.894	182.6	41.31	2.173	141.3	10.97	5.323	146.3	3.27	17.83	19.19	21.07	1.365	3.238	62.51	10.59	0.417	890	0
05/20/2014 04:15	65839	15	140	0.521	265.4	78.89	0.929	141.4	47.81	4.312	147.4	4.464	16.77	18.65	20.83	1.879	4.065	65.5	10.28	0.661	890	0
05/20/2014 04:30	65840	15	140	0.663	99.6	88.2	1.677	125	11.07	5.103	139	3.069	16.1	18.63	20.93	2.526	4.828	67.81	10.16	0.696	890	0
05/20/2014 04:45	65841	15	140	0.52	139.6	46.92	1.727	125.3	9.73	5.418	142.3	3.065	16.1	17.93	21.1	1.834	5.003	68.1	10.23	0.991	890	0
05/20/2014 05:00	65842	15	140	0.536	141.7	52.81	2.46	120.2	8.29	5.409	147.9	5.141	15.66	17.51	21.09	1.841	5.426	69.26	10.06	4.244	890	0
05/20/2014 05:15	65843	15	140	0.744	131.3	32.26	2.748	120	8.26	5.452	152.4	4.522	16.02	17.63	21.24	1.606	5.216	70.26	10.62	22.67	890	0
05/20/2014 05:30	65844	15	140	0.678	83.4	79.31	2.453	112.6	9.31	5.389	145.9	2.803	16.04	17.28	21.17	1.234	5.124	70.39	10.67	61.6	890	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/20/2014 05:45	65845	15	140	2.15	120.8	12.32	3.858	118.1	6.205	5.457	154.9	4.303	17.72	18.12	21.76	0.402	4.043	65.82	11.25	113.4	890	0
05/20/2014 06:00	65846	15	140	1.852	121.4	14.85	3.234	119.3	7.436	4.391	156.5	5.265	19.13	19.3	22.01	0.169	2.874	60.78	11.4	170.6	890	0
05/20/2014 06:15	65847	15	140	1.577	116.9	15.29	2.428	113.7	10.09	4.136	144.8	6.524	20.14	20.03	21.95	-0.109	1.804	57.29	11.45	230.2	890	0
05/20/2014 06:30	65848	15	140	1.702	119.9	14.23	2.331	115.4	8.81	3.464	141	4.626	20.96	20.63	21.94	-0.332	0.977	55.29	11.68	290.6	891	0
05/20/2014 06:45	65849	15	140	1.533	133.3	14.66	1.959	123.1	9.92	2.211	141.2	7.413	22.17	21.76	21.99	-0.409	-0.179	51.44	11.7	351.3	891	0
05/20/2014 07:00	65850	15	140	1.011	191.1	44.36	1.168	190	35.22	1.474	193.7	23.11	23.09	22.81	22.43	-0.285	-0.656	47.52	11.35	411.7	891	0
05/20/2014 07:15	65851	15	140	1.619	226.2	19.84	1.883	223	14.5	1.982	224.1	12.21	23.66	23.16	22.62	-0.503	-1.041	45.64	11.26	469.4	891	0
05/20/2014 07:30	65852	15	140	1.993	232	16.32	2.328	226.9	10.33	2.424	222.4	8.39	24.15	23.59	22.97	-0.559	-1.176	42.83	10.74	524.3	891	0
05/20/2014 07:45	65853	15	140	1.581	231.6	26.59	1.883	229	21.54	2.175	227.2	14.28	24.59	24.02	23.41	-0.574	-1.184	40.36	10.25	577.7	891	0
05/20/2014 08:00	65854	15	140	1.972	221.8	19.42	2.314	216	15.56	2.412	217.2	13.76	25.22	24.54	24.04	-0.688	-1.188	36.46	9.29	629	891	0
05/20/2014 08:15	65855	15	140	1.789	223.5	25.24	2.057	216.5	21.73	2.463	219.1	13.06	25.8	25.21	24.6	-0.592	-1.206	33.07	8.33	679	891	0
05/20/2014 08:30	65856	15	140	2.252	245.8	19.33	2.747	240.3	16.69	2.976	242.3	18.06	26.78	25.98	25.4	-0.8	-1.374	28.02	6.761	728.3	891	0
05/20/2014 08:45	65857	15	140	2.366	254.5	14.46	3.096	250.4	12.62	3.424	252.6	11.31	28.06	27.07	26.37	-0.993	-1.69	21.36	3.824	776.2	891	0
05/20/2014 09:00	65858	15	140	2.572	270.2	18.99	3.245	267	14.69	3.813	267	12.39	29.06	28.09	27.36	-0.971	-1.704	15.52	0.258	823	891	0
05/20/2014 09:15	65859	15	140	2.87	283.8	18.97	3.49	278.7	17.11	3.995	273.3	12.21	29.89	28.92	28.03	-0.969	-1.861	12.44	-2.137	866	891	0
05/20/2014 09:30	65860	15	140	2.779	281.8	21.96	3.315	275.7	17.84	3.938	274.2	10.7	30.19	29.24	28.46	-0.951	-1.731	12.78	-1.521	904	891	0
05/20/2014 09:45	65861	15	140	2.91	273.5	22.6	3.636	272.7	18.66	4.01	268.7	14.44	30.66	29.56	28.66	-1.104	-1.998	10.96	-3.221	939	891	0
05/20/2014 10:00	65862	15	140	2.557	281.1	16.56	3.194	276	16.01	3.664	274.4	13.07	31.15	30.18	29.34	-0.978	-1.819	7.827	-7.605	970	891	0
05/20/2014 10:15	65863	15	140	2.797	264.2	17.56	3.498	264.9	14.45	3.946	265.7	13.87	31.76	30.67	29.88	-1.089	-1.878	6.353	-9.62	991	891	0
05/20/2014 10:30	65864	15	140	3.654	288.5	19.95	4.221	285.7	17.97	5.069	278.4	14.4	32.42	31.22	30.16	-1.208	-2.259	5.151	-11.9	1012	891	0
05/20/2014 10:45	65865	15	140	3.204	263	29.33	4.075	256.8	25.67	4.686	258	20.99	32.65	31.29	30.39	-1.363	-2.261	6.055	-9.58	1032	891	0
05/20/2014 11:00	65866	15	140	3.698	262.7	29.32	4.705	257.2	24.86	5.868	256.5	19.5	32.97	31.67	30.58	-1.303	-2.387	4.624	-12.8	1046	891	0
05/20/2014 11:15	65867	15	140	3.03	262	31.58	3.729	253.5	22.37	4.492	251.4	16.32	32.73	31.53	30.67	-1.197	-2.062	4.95	-12.04	1061	891	0
05/20/2014 11:30	65868	15	140	3.062	273.4	23.85	3.656	268.8	20.32	4.44	265.9	19.58	32.97	31.89	31.06	-1.084	-1.919	4.896	-12	1068	891	0
05/20/2014 11:45	65869	15	140	3.741	252.8	19.07	4.778	248	14.87	5.686	246.3	13.67	33.51	32.08	31.05	-1.438	-2.46	4.861	-11.71	1080	890	0
05/20/2014 12:00	65870	15	140	2.644	250.2	33.11	3.129	246.6	33.34	3.8	242.8	25.82	33.38	32.38	31.52	-1.003	-1.864	5.058	-11.3	1086	890	0
05/20/2014 12:15	65871	15	140	2.783	281.8	27.48	3.328	281.7	25.54	4.031	279.4	21.17	33.83	32.88	31.97	-0.95	-1.857	5.016	-11.09	1095	890	0
05/20/2014 12:30	65872	15	140	3.79	206.7	54.72	4.726	197	51.67	5.682	193.8	44.05	35.02	33.5	32.46	-1.518	-2.565	4.318	-12.2	1093	890	0
05/20/2014 12:45	65873	15	140	3.81	215.1	30.64	4.868	208.1	28.53	5.553	207.8	25.06	35.31	33.58	32.56	-1.734	-2.755	3.99	-12.96	1082	890	0
05/20/2014 13:00	65874	15	140	4.898	211.5	25.89	6.391	203.8	24.69	7.314	201	23.85	35.82	34.04	32.95	-1.779	-2.868	3.714	-13.54	1064	889	0
05/20/2014 13:15	65875	15	140	4.68	214.2	22.56	6.051	211.3	21.1	7.013	211.8	17.16	35.57	33.74	32.67	-1.827	-2.891	3.853	-13.26	1049	889	0
05/20/2014 13:30	65876	15	140	4.294	230.5	23.87	5.283	224.9	21.18	6.262	221	17.81	35.64	34.01	32.9	-1.629	-2.736	3.715	-13.63	1025	889	0
05/20/2014 13:45	65877	15	140	5.058	193	18.79	6.346	186.9	18.21	7.236	187.4	17.95	35.96	34.36	33.22	-1.602	-2.739	3.697	-13.49	999	889	0
05/20/2014 14:00	65878	15	140	3.006	194.1	45.93	3.696	191.7	38.29	4.696	191.4	33.79	35.51	34.43	33.35	-1.076	-2.152	3.674	-13.86	963	889	0
05/20/2014 14:15	65879	15	140	6.71	227.9	21.39	8.72	224.1	17.61	10.18	221.2	13.43	36.13	34.53	33.45	-1.601	-2.681	3.303	-14.93	937	888	0
05/20/2014 14:30	65880	15	140	6.611	224.6	22.29	8.8	220.6	21.19	11.1	217.7	16	36.45	34.81	33.62	-1.633	-2.828	3.281	-14.82	893	888	0
05/20/2014 14:45	65881	15	140	6.858	224.9	14.14	9.06	220.3	12.27	10.61	218.2	10.91	36.1	34.67	33.57	-1.432	-2.525	3.402	-14.58	862	888	0
05/20/2014 15:00	65882	15	140	6.671	228.4	12.95	8.8	222.9	11.5	10.99	219.6	8.11	36.08	34.7	33.53	-1.378	-2.545	3.682	-13.67	824	888	0
05/20/2014 15:15	65883	15	140	6.069	236.6	13.14	7.78	233.8	11.26	9.75	230	7.594	35.13	34.11	33.16	-1.019	-1.971	3.837	-13.67	779	888	0
05/20/2014 15:30	65884	15	140	4.925	243.4	17.34	6.573	238.8	16.47	8.21	234.4	12.75	35.38	34.36	33.42	-1.017	-1.956	3.811	-13.52	737.4	888	0
05/20/2014 15:45	65885	15	140	5.325	227.5	15.99	6.842	222.6	13.92	8.2	220.7	9.32	35.44	34.38	33.41	-1.062	-2.029	3.695	-13.9	680.5	888	0
05/20/2014 16:00	65886	15	140	4.631	238.7	17.39	6.217	234.5	15.47	7.088	231.3	11.73	35.72	34.62	33.71	-1.105	-2.012	3.672	-13.74	626.7	888	0
05/20/2014 16:15	65887	15	140	4.39	255.2	15.05	6.031	249.6	12.37	7.238	242.4	8.81	35.44	34.39	33.51	-1.048	-1.933	3.545	-14.38	571.6	888	0
05/20/2014 16:30	65888	15	140	4.339	247.2	16.42	5.827	245.1	13.73	6.726	240.7	10.82	35.35	34.38	33.63	-0.974	-1.722	3.453	-14.76	516.8	888	0
05/20/2014 16:45	65889	15	140	4.123	249.2	20.07	5.37	246.3	17.77	6.593	242.8	14.91	35.28	34.55	33.73	-0.73	-1.552	3.455	-14.82	460.1	888	0
05/20/2014 17:00	65890	15	140	4.587	265.8	16.58	6.299	264.2	13.68	7.569	260.6	11.95	35.14	34.44	33.7	-0.701	-1.441	3.548	-14.57	399.1	888	0
05/20/2014 17:15	65891	15	140	4.292	252.9	18.36	6.01	250.4	15.57	7.77	244.3	13.52	34.75	34.35	33.68	-0.399	-1.07	3.61	-14.64	336.9	888	0
05/20/2014 17:30	65892	15	140	4.125	255.7	12.38	5.859	254.2	9.28	7.15	252	5.658	34.55	34.11	33.48	-0.436	-1.072	3.803	-14.09	274.4	888	0
05/20/2014 17:45	65893	15	140	3.793	266.5	13.39	5.815	264.5	11.19	7.185	260.1	8.83	34.06	33.79	33.28	-0.268	-0.779	3.955	-13.94	216.2	888	0
05/20/2014 18:00	65894	15	140	3.457	278.4	14.53	5.21	275.7	11.94	6.991	267.5	9.9	33.58	33.55	33.16	-0.033	-0.42	4.138	-13.71	158.8	888	0
05/20/2014 18:15	65895	15	140	3.152	266.5	9.09	5.089	262.9	6.408	7.288	256.6	3.37	32.88	33.09	32.93	0.212	0.045	4.316	-13.66	48.32	888	0
05/20/2014 18:30	65896	15	140	2.058	269.3	10.32	3.893	265.6	6.757	6.361	260.4	3.177	31.66	32.3	32.8	0.645	1.137	4.677	-13.51	24.12	888	0
05/20/2014 18:45	65897	15	140	2.654	290.2	14.12	3.953	287.7	10.45	6.158	281.9	8.62	30.99	31.71	32.24	0.716	1.242	5.164	-12.73	13.3	888	0
05/20/2014 19:00	65898	15	140	2.209	300.1	11.24	2.867	293.4	6.819	5.455	285.3	3.778	30.44	31.11	31.67	0.67	1.237	5.444	-12.46	4.171	888	0
05/20/2014 19:15	65899	15	140	1.692	292.6	11.99	2.772	287.6	7.761	6.116	278.4	3.245	29.77	30.58	31.27	0.81	1.492	5.757	-12.23	1.815	888	0
05/20/2014 19:30	65900	15	140	1.6	286.6	13.12	2.887	285.9	8.11	6.503	279.5	3.673	29.41	30.22	31.09	0.813	1.686	6.041	-11.89	1.231	889	0
05/20/2014 19:45	65901	15	140	1.211	300.4	11.12	2.105	289.1	7.78	5.551	280.6	2.633	28.69	30.03	30.84	1.337	2.148	6.069	-12.35	0.995	889	0
05/20/2014 20:00	65902	15	140	1.121	319	9.92	2.119	292.5	5.582	4.932	284.6	2.963	27.57	29.92	30.61	2.351	3.034	6.666	-11.98	0.917	889	0
05/20/2014 20:15	65903	15	140	0.937	14.95	31.28	1.567	305.8	8.95	3.273	290.7	3.617	25.19	29.46	30.4	4.265	5.204	7.793	-11.8	0.715	889	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/20/2014 20:30	65904	15	140	2.065	120.1	10.66	3.119	111	55.5	2.502	273.8	90.5	23.5	27.85	29.71	4.352	6.209	9.3	-10.81	0.601	889	0
05/20/2014 20:45	65905	15	140	1.568	116.1	14.22	3.386	121.8	6.311	3.235	144.6	9.92	24.45	26.48	29.68	2.033	5.237	8.7	-10.93	0.835	889	0
05/20/2014 21:00	65906	15	140	1.73	106.8	9.51	3.976	114.7	4.03	3.993	123.7	5.048	23.77	27.73	30.09	3.966	6.32	9.08	-10.9	0.86	890	0
05/20/2014 21:15	65907	15	140	1.635	115.3	11.18	3.899	119.8	4.297	4.084	132.8	5.016	24.63	28.34	30.36	3.708	5.73	8.14	-11.63	0.701	890	0
05/20/2014 21:30	65908	15	140	2.093	117.5	8.88	4.878	123.1	3.903	4.801	132.3	5.348	24.24	28.97	30.38	4.722	6.137	8.28	-11.7	1.067	890	0
05/20/2014 21:45	65909	15	140	3.118	124.7	11.58	5.228	122.4	6.394	8.69	126.8	3.81	25.33	25.99	26.73	0.668	1.404	21.54	1.321	1.706	890	0
05/20/2014 22:00	65910	15	140	2.509	119.3	11.42	4.415	118.4	5.691	7.739	126.3	3.287	24.84	25.5	26.3	0.66	1.469	33.25	7.578	1.369	890	0
05/20/2014 22:15	65911	15	140	2.961	132	10.58	4.866	127.1	6.572	8.53	128.6	3.655	24.58	25.12	25.73	0.544	1.146	38.6	9.57	1.384	890	0
05/20/2014 22:30	65912	15	140	4.21	137.6	11.38	6.108	133.4	7.218	9.25	132.1	4.965	25.11	25.4	25.52	0.296	0.414	41.34	11.07	1.58	890	0
05/20/2014 22:45	65913	15	140	3.733	136.9	12.04	5.591	132.4	8.55	8.61	130.9	5.753	24.85	25.16	25.16	0.31	0.309	43.02	11.45	1.424	890	0
05/20/2014 23:00	65914	15	140	4.048	135.6	11.85	5.843	131.8	7.564	8.49	130	5.24	24.52	24.79	24.75	0.273	0.227	44.65	11.71	1.429	890	0
05/20/2014 23:15	65915	15	140	4.843	141.6	12.23	7.13	137.5	7.571	9.77	134.7	5.436	24.33	24.55	24.41	0.217	0.08	45.97	11.98	1.677	890	0
05/20/2014 23:30	65916	15	140	4.927	144.6	11.04	7.227	139.3	7.43	10.18	136	4.786	24.05	24.25	24.1	0.201	0.053	47.33	12.17	1.838	890	0
05/20/2014 23:45	65917	15	140	4.843	144	11.85	7.275	138.4	7.601	10.13	136.2	4.678	23.69	23.9	23.77	0.21	0.076	48.79	12.3	1.589	890	0
05/21/2014 00:00	65918	15	141	4.72	139.3	12.5	6.955	135	8.34	10.09	132.4	5.02	23.33	23.54	23.43	0.205	0.101	50.26	12.42	1.808	889	0
05/21/2014 00:15	65919	15	141	4.64	134.4	11.55	6.657	130.6	7.445	9.51	128.6	5.174	23.03	23.23	23.12	0.198	0.097	51.74	12.58	1.557	889	0
05/21/2014 00:30	65920	15	141	4.11	126.6	11.57	6.135	123.3	7.873	9.23	122.2	4.953	22.72	22.96	22.92	0.24	0.197	52.69	12.58	1.429	889	0
05/21/2014 00:45	65921	15	141	4.066	119.7	11.94	6.178	116.4	7.52	9.04	115.8	4.74	22.43	22.68	22.65	0.244	0.216	53.57	12.57	1.39	889	0
05/21/2014 01:00	65922	15	141	4.225	116	11.91	6.271	113.2	7.687	9.18	113.6	4.633	22.2	22.45	22.46	0.251	0.258	53.77	12.41	1.411	889	0
05/21/2014 01:15	65923	15	141	4.225	117	11.59	6.358	114.1	6.629	9.14	113.8	4.153	22.05	22.31	22.3	0.257	0.256	53.31	12.13	1.233	889	0
05/21/2014 01:30	65924	15	141	4.388	116.5	11.48	6.554	114.3	7.269	9.86	111.6	3.733	21.77	22.02	22.05	0.248	0.272	54.01	12.08	1.339	889	0
05/21/2014 01:45	65925	15	141	4.421	120.8	11.14	6.701	117	6.929	9.9	114	3.523	21.61	21.85	21.9	0.241	0.295	54.51	12.06	1.578	889	0
05/21/2014 02:00	65926	15	141	3.945	120.8	11.38	6.047	116.9	6.926	9.62	114.4	3.823	21.41	21.66	21.75	0.245	0.343	54.96	12	1.58	889	0
05/21/2014 02:15	65927	15	141	4.301	119.7	11.87	6.397	115.9	6.883	9.95	113.6	3.637	21.32	21.54	21.64	0.216	0.319	55.26	12	1.57	889	0
05/21/2014 02:30	65928	15	141	4.206	124.1	11.52	6.362	120.2	7.45	10.06	117	3.284	21.09	21.29	21.4	0.192	0.307	56.08	12.02	1.616	889	0
05/21/2014 02:45	65929	15	141	4.114	128.7	11.45	6.128	124.9	7.07	9.59	120.9	3.736	20.95	21.14	21.23	0.191	0.286	56.66	12.04	1.496	889	0
05/21/2014 03:00	65930	15	141	3.646	134.6	12.03	5.275	128.9	8.08	8.61	124.8	4.307	21.11	21.24	21.25	0.127	0.133	56.67	12.19	1.459	889	0
05/21/2014 03:15	65931	15	141	2.916	137	14.65	4.454	132.8	10.45	7.025	126.7	5.992	21.33	21.44	21.29	0.113	-0.042	56.14	12.25	1.319	889	0
05/21/2014 03:30	65932	15	141	3.754	136.7	11.25	5.439	132	8.13	8.19	128	4.876	21.41	21.49	21.31	0.082	-0.095	55.91	12.27	1.519	889	0
05/21/2014 03:45	65933	15	141	3.756	140.4	12.63	5.498	134.5	8.07	7.851	130	5.466	21.37	21.45	21.23	0.082	-0.138	56.13	12.29	1.363	889	0
05/21/2014 04:00	65934	15	141	3.621	142.1	12.34	5.41	136.4	8.67	7.637	132.4	5.646	21.05	21.17	20.97	0.121	-0.084	57.1	12.25	1.467	889	0
05/21/2014 04:15	65935	15	141	3.679	129.3	11.82	5.478	125.2	8.61	8.22	123.3	5.405	20.61	20.75	20.63	0.143	0.02	58.77	12.28	1.356	889	0
05/21/2014 04:30	65936	15	141	3.609	124.4	12.52	5.252	121.8	7.842	8.06	120.1	5.305	20.41	20.53	20.39	0.114	-0.02	59.9	12.38	1.22	889	0
05/21/2014 04:45	65937	15	141	3.237	137.3	12.2	4.814	131.8	7.777	7.399	126.9	5.23	20.11	20.3	20.2	0.2	0.099	60.99	12.37	1.439	889	0
05/21/2014 05:00	65938	15	141	3.112	129.8	12.84	4.609	126.5	8.19	7.22	123.7	4.764	19.81	20.03	20.02	0.222	0.218	62.35	12.42	3.451	889	0
05/21/2014 05:15	65939	15	141	2.971	124.5	12.45	4.424	121	8.56	6.833	120.2	5.097	19.78	19.96	19.95	0.186	0.171	62.86	12.52	13.3	890	0
05/21/2014 05:30	65940	15	141	3.177	121.8	12.48	4.861	117.7	7.151	7.45	116.2	4.033	19.96	20.07	19.99	0.11	0.029	62.74	12.66	35.2	890	0
05/21/2014 05:45	65941	15	141	2.588	138.8	23.87	3.998	133.3	18.46	5.959	125.5	11.33	20.24	20.28	20.06	0.047	-0.176	61.99	12.74	58.01	890	0
05/21/2014 06:00	65942	15	141	2.784	142.4	18.92	3.966	134.4	14.27	5.895	126.5	8	20.31	20.32	20.06	0.013	-0.253	61.79	12.76	81.7	890	0
05/21/2014 06:15	65943	15	141	2.939	145.5	15.51	4.26	139.5	11.01	6.245	131.5	6.686	20.56	20.48	20.13	-0.076	-0.428	61.29	12.87	115.7	890	0
05/21/2014 06:30	65944	15	141	3.53	146.2	12.07	5.342	140.1	7.76	6.893	132.9	5.932	20.9	20.7	20.26	-0.201	-0.646	60.63	13.03	171.2	891	0
05/21/2014 06:45	65945	15	141	4.136	134.8	13.07	5.894	129.9	8.97	7.518	125.7	7.064	21.31	20.96	20.44	-0.348	-0.871	59.34	13.08	226.5	890	0
05/21/2014 07:00	65946	15	141	4.773	127.7	12.28	6.943	121.5	7.579	8.47	117.7	5.12	21.45	21.18	20.66	-0.273	-0.789	58.86	13.09	161.3	890	0
05/21/2014 07:15	65947	15	141	5.076	135.4	11.51	7.156	130.7	7.72	9.03	126.6	6.169	21.86	21.57	21.02	-0.298	-0.846	57.3	13.06	182.5	890	0
05/21/2014 07:30	65948	15	141	5.302	138	14.3	7.555	131.9	10.18	9.78	128.8	8.33	21.66	21.52	21.02	-0.142	-0.637	57.5	12.92	75.45	891	0
05/21/2014 07:45	65949	15	141	2.755	120.9	58.42	3.837	116.6	54.03	4.993	114.8	40.9	20.37	20.84	20.71	0.472	0.345	67.75	14.21	107.6	891	0.254
05/21/2014 08:00	65950	15	141	2.556	223.6	25.1	3.64	216.2	24.37	4.677	205.4	25.18	21	21.2	21.15	0.207	0.155	67.7	14.81	173.3	891	0
05/21/2014 08:15	65951	15	141	1.405	233.7	33.48	1.732	227.9	25.88	2.192	223.3	23.48	21.86	21.68	21.3	-0.188	-0.561	62.28	14.34	357.3	891	0
05/21/2014 08:30	65952	15	141	2.267	198.3	28.43	2.722	192.6	24.89	3.041	186.5	23.15	22.56	22.11	21.59	-0.446	-0.969	60.14	14.46	458.9	891	0
05/21/2014 08:45	65953	15	141	3.313	153.8	19.43	4.353	146.3	15.83	5.1	142.3	14.99	23.24	22.62	21.95	-0.612	-1.286	57.63	14.42	517.8	891	0
05/21/2014 09:00	65954	15	141	3.546	139.3	17.12	4.885	132.1	13.3	5.469	127.9	10.17	23.41	22.69	22.02	-0.718	-1.387	53.43	13.43	498.6	891	0
05/21/2014 09:15	65955	15	141	3.462	136.8	18.79	4.518	131.2	15.77	5.223	127.6	11.29	24.58	23.38	22.51	-1.198	-2.067	50.52	13.63	971	891	0
05/21/2014 09:30	65956	15	141	3.678	146.4	21.07	4.618	141.3	15.9	5.211	137.1	11.72	25.51	24.23	23.37	-1.286	-2.145	46.86	13.34	972	891	0
05/21/2014 09:45	65957	15	141	3.266	137.1	20.01	4.349	133.2	15.84	5.136	129.4	11.69	26.36	24.93	23.9	-1.428	-2.459	44.36	13.27	859	891	0
05/21/2014 10:00	65958	15	141	3.295	153.7	21.01	4.22	145.6	16.04	4.658	141.5	13.34	26.23	25.08	24.36	-1.149	-1.87	42.91	12.65	695.3	891	0
05/21/2014 10:15	65959	15	141	3.035	165.5	24.08	3.697	157.1	20.18	4.357	149	12.96	26.75	25.66	24.86	-1.088	-1.886	41.2	12.5	685	891	0
05/21/2014 10:30	65960	15	141	2.852	155.9	18.99	3.678	151.7	15.02	4.267	150	11.8	27.5	26.31	25.62	-1.189	-1.885	38.27	12.05	669.1	891	0
05/21/2014 10:45	65961	15	141	2.549	178.8	28.39	3.157	172.3	24.59	3.644	160	19.69	28.34	27.13	26.33	-1.209	-2.005	35.99	11.84	1038	891	0
05/21/2014 11:00	65962	15	141	1.988	216.6	30.39	2.364	211.9	31.49	2.641	212.9	24.96	28.47	27.7	26.95	-0.768	-1.52	31.29	9.86	649.8	891	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/21/2014 11:15	65963	15	141	2.55	210.2	25.8	3.134	206.5	24.8	3.458	203.6	20.3	29.43	28.24	27.29	-1.19	-2.131	28.88	9.49	1010	891	0
05/21/2014 11:30	65964	15	141	3.204	218.7	19.67	3.788	213.5	16.16	4.382	215.8	12.66	30.04	28.67	27.73	-1.371	-2.311	26.64	8.79	1057	891	0
05/21/2014 11:45	65965	15	141	2.21	236.8	36.52	2.809	236.5	35.97	3.261	236	21.17	29.69	28.77	28.11	-0.915	-1.577	24.42	7.242	715.4	891	0
05/21/2014 12:00	65966	15	141	2.394	272.3	45.19	2.792	262.6	38.45	3.073	241.6	26.26	30.68	29.64	28.74	-1.048	-1.945	24.25	7.969	1265	891	0
05/21/2014 12:15	65967	15	141	1.892	267.3	58.5	2.175	257.5	49.03	2.327	251	33.51	30.21	29.53	28.87	-0.688	-1.344	23.9	7.368	796.8	890	0
05/21/2014 12:30	65968	15	141	2.539	261.4	41.25	3.217	261.3	39.66	3.235	262	25.45	31.19	30.01	29.22	-1.174	-1.965	21.64	6.695	1217	890	0
05/21/2014 12:45	65969	15	141	2.009	313.3	70.19	2.496	308	57.69	3.028	289.6	49.86	31.36	30.36	29.74	-1.004	-1.621	21	6.388	1032	890	0
05/21/2014 13:00	65970	15	141	2.595	271.9	52.45	2.901	268	49.14	3.223	258.3	39.94	31.81	30.73	30.01	-1.08	-1.797	18.78	5.137	1009	890	0
05/21/2014 13:15	65971	15	141	4.133	309.1	19.67	4.861	304.9	17.28	5.125	296	12.24	32.23	30.98	30.02	-1.249	-2.211	17.12	4.193	1007	890	0
05/21/2014 13:30	65972	15	141	3.068	311.1	25.27	3.524	307.2	22.61	3.674	301.7	16.55	32.18	31.09	30.19	-1.093	-1.987	17.05	4.099	762.1	890	0
05/21/2014 13:45	65973	15	141	1.871	11.9	94.6	2.073	24.3	87.6	2.566	352.3	75.19	31.69	30.94	30.31	-0.749	-1.378	16.93	3.601	628	890	0
05/21/2014 14:00	65974	15	141	2.535	302.5	50.33	3.201	300.4	47.28	3.81	299.1	49.61	32.23	31.33	30.58	-0.892	-1.649	13.6	0.957	534.5	890	0
05/21/2014 14:15	65975	15	141	1.726	20	41.48	2.246	14.04	36.45	2.543	8.92	39.17	32.37	31.6	30.91	-0.771	-1.459	13.68	1.152	792.8	889	0
05/21/2014 14:30	65976	15	141	2.261	339	60.87	2.748	338.4	44.94	2.986	331.3	46.01	33.01	32.11	31.45	-0.901	-1.565	12.91	0.854	1035	889	0
05/21/2014 14:45	65977	15	141	1.767	39.55	60.95	2.301	34.66	53.15	2.891	31.55	48.64	33.23	32.28	31.44	-0.949	-1.789	12.97	1.08	991	889	0
05/21/2014 15:00	65978	15	141	3.863	122.7	32.26	5.003	114.5	29.12	5.964	102.8	25.21	33.19	31.73	30.79	-1.461	-2.402	13.28	1.374	865	888	0
05/21/2014 15:15	65979	15	141	2.498	86.9	33.68	3.1	88.6	29.18	3.761	77.14	21.01	33.31	32.22	31.41	-1.089	-1.903	13.32	1.512	901	888	0
05/21/2014 15:30	65980	15	141	2.844	117.2	32.78	3.471	113.9	27.65	3.919	104	22.82	33.09	31.86	31.09	-1.238	-2.008	13.48	1.511	824	888	0
05/21/2014 15:45	65981	15	141	3.45	115.3	57.72	4.412	109.3	52.41	5.132	106.2	44.67	33.37	32.2	31.37	-1.17	-1.992	13.67	1.918	755.2	888	0
05/21/2014 16:00	65982	15	141	4.201	171.8	16.19	5.538	166.6	13.93	6.299	160.2	11.97	33.77	32.49	31.6	-1.274	-2.171	13.43	1.983	705.7	888	0
05/21/2014 16:15	65983	15	141	3.681	133.6	26.3	4.881	129.5	24.57	5.819	122.7	21.92	33.23	32.31	31.52	-0.916	-1.711	14.17	2.305	449.3	888	0
05/21/2014 16:30	65984	15	141	4.336	106.1	20.02	6.171	100.9	18.37	7.852	98.1	16.07	32.34	31.8	31.1	-0.54	-1.238	15.71	3.068	246.9	888	0
05/21/2014 16:45	65985	15	141	3.182	137.1	16.69	4.454	129.8	13.17	5.86	124	12.84	32.18	31.77	31.1	-0.4	-1.072	15.82	3.033	189.5	888	0
05/21/2014 17:00	65986	15	141	4.077	119.6	16.23	5.671	115.7	13.22	6.997	111.3	9.62	32.21	31.65	30.89	-0.558	-1.313	17.42	4.419	326.4	887	0
05/21/2014 17:15	65987	15	141	4.924	126.9	17.33	6.969	122.7	13.91	8.77	118.3	11.55	32.22	31.57	30.74	-0.646	-1.48	18.57	5.351	369.7	887	0
05/21/2014 17:30	65988	15	141	6.93	123.7	12.46	9.74	118.2	7.911	12.17	114.3	4.79	30.76	30.4	29.65	-0.362	-1.105	20.29	5.439	187.3	887	0
05/21/2014 17:45	65989	15	141	5.686	129.2	11.61	8.31	123.7	7.827	10.67	118.4	4.993	30.26	30.02	29.49	-0.234	-0.766	21.08	5.579	159.7	887	0
05/21/2014 18:00	65990	15	141	5.875	125.3	11.99	8.56	120.9	7.797	11.05	117.8	4.983	30.35	30.08	29.46	-0.266	-0.889	20.3	5.113	186.6	888	0
05/21/2014 18:15	65991	15	141	5.385	133.8	13.02	7.83	128.4	9.09	10.51	124.7	6.024	30.12	30.04	29.56	-0.081	-0.56	19.41	4.279	97.9	888	0
05/21/2014 18:30	65992	15	141	5.656	141	12.13	8.05	136.4	8.19	10.77	133.6	5.447	29.63	29.71	29.37	0.071	-0.267	19.88	4.2	28.29	888	0
05/21/2014 18:45	65993	15	141	5.597	145.9	12.18	8.29	140.8	8.12	11.21	136.4	5.126	28.84	28.88	28.5	0.046	-0.334	28.38	8.64	11.39	888	0
05/21/2014 19:00	65994	15	141	5.99	142.7	12.54	8.82	138	8.99	11.4	132.5	5.875	28.3	28.33	27.96	0.026	-0.348	33.49	10.73	4.535	888	0
05/21/2014 19:15	65995	15	141	6.208	144.3	12.53	9.04	140.1	7.968	11.87	136.2	5.71	27.83	27.87	27.51	0.039	-0.319	35.28	11.11	2.145	888	0
05/21/2014 19:30	65996	15	141	5.956	147.5	12.05	8.88	142.4	7.74	11.86	138.9	5.477	27.17	27.26	26.94	0.092	-0.231	36.96	11.22	1.71	888	0
05/21/2014 19:45	65997	15	141	6.211	144.3	11.51	8.95	139.8	7.266	11.7	135.2	5.072	26.67	26.75	26.45	0.076	-0.226	39.33	11.72	1.801	888	0
05/21/2014 20:00	65998	15	141	5.605	148.5	11.97	8.1	143	8.25	10.92	139.1	6.214	26.25	26.34	26.06	0.097	-0.189	40.58	11.82	1.57	889	0
05/21/2014 20:15	65999	15	141	5.385	152.7	11.48	7.752	147.7	8.42	10.72	143.7	5.422	25.85	25.96	25.69	0.109	-0.159	41.4	11.76	1.669	889	0
05/21/2014 20:30	66000	15	141	5.621	151.9	13.24	7.888	146.4	9.3	10.56	144.1	6.499	25.49	25.62	25.37	0.127	-0.126	41.41	11.45	1.662	889	0
05/21/2014 20:45	66001	15	141	5.211	147.2	12.11	7.639	142	8.53	10.67	139.9	6.064	25.2	25.34	25.11	0.14	-0.089	42.38	11.53	1.58	889	0
05/21/2014 21:00	66002	15	141	5.508	149	12.08	7.783	144.4	8.13	10.37	140.2	6.117	25.01	25.13	24.89	0.118	-0.124	43.82	11.87	1.601	890	0
05/21/2014 21:15	66003	15	141	5.592	150.3	11.76	8.05	144.1	7.822	11.07	139.9	5.845	24.92	25.04	24.81	0.125	-0.106	44.7	12.09	1.807	890	0
05/21/2014 21:30	66004	15	141	5.893	151.8	12.33	8.75	145.8	8.67	11.77	142.5	5.486	24.9	25.01	24.78	0.114	-0.121	45.06	12.19	1.868	890	0
05/21/2014 21:45	66005	15	141	6.15	154.8	11.37	8.7	149.3	7.646	11.61	144.9	6.011	24.88	24.97	24.71	0.091	-0.173	45.38	12.28	1.986	890	0
05/21/2014 22:00	66006	15	141	5.571	153.4	11.43	8.11	149	8.18	10.74	144	6.372	24.77	24.87	24.61	0.098	-0.166	45.7	12.29	1.621	890	0
05/21/2014 22:15	66007	15	141	5.725	148.6	12.43	8.43	143.6	7.666	11.2	141	5.544	24.64	24.71	24.42	0.069	-0.22	46.19	12.34	1.636	890	0
05/21/2014 22:30	66008	15	141	5.168	147	12.47	7.184	142.6	8.21	10.09	139.5	6.56	24.49	24.53	24.25	0.046	-0.239	46.86	12.41	1.476	890	0
05/21/2014 22:45	66009	15	141	4.615	131.6	15.58	6.461	128.3	12.11	9.05	127.6	8.94	24.3	24.36	24.07	0.058	-0.227	47.52	12.45	1.502	890	0
05/21/2014 23:00	66010	15	141	4.104	99.7	13.01	5.917	96.6	9.89	8.06	96.1	8.74	23.92	23.99	23.74	0.072	-0.186	48.58	12.45	1.336	890	0
05/21/2014 23:15	66011	15	141	4.825	108.2	14.23	6.822	105.2	11.31	9.66	103.9	7.611	23.66	23.71	23.49	0.047	-0.179	49.34	12.45	1.55	890	0
05/21/2014 23:30	66012	15	141	4.01	118.6	12.64	5.922	114.5	8.45	8.21	111	5.467	23.25	23.36	23.15	0.117	-0.097	50.41	12.39	1.382	890	0
05/21/2014 23:45	66013	15	141	3.733	104.1	11.31	5.5	98.9	8.49	8.38	96.7	5.727	22.75	22.93	22.85	0.177	0.102	51.78	12.34	1.217	890	0
05/22/2014 00:00	66014	15	142	4.462	120.9	11.74	6.666	114.7	7.797	9.83	111.1	4.467	22.68	22.88	22.88	0.2	0.203	51.9	12.31	1.576	890	0
05/22/2014 00:15	66015	15	142	3.596	124.9	11.22	5.609	118.7	7.23	8.6	115	4.601	22.12	22.35	22.38	0.235	0.261	53.26	12.18	1.342	890	0
05/22/2014 00:30	66016	15	142	2.978	125.8	12.04	4.738	120.9	7.34	7.546	116.9	4.775	21.74	22.04	22.2	0.297	0.458	54.83	12.28	1.266	890	0
05/22/2014 00:45	66017	15	142	3.329	116.7	12.4	5.131	111.1	8.09	7.622	108.7	5.609	21.77	22.05	22.19	0.287	0.419	54.73	12.27	1.265	890	0
05/22/2014 01:00	66018	15	142	3.252	129.5	10.66	4.909	123.2	6.951	8.29	117.6	3.812	21.32	21.59	21.89	0.265	0.561	56.11	12.24	1.402	890	0
05/22/2014 01:15	66019	15	142	2.986	119.5	12.2	4.607	115.2	8.51	7.998	111.9	4.561	20.9	21.18	21.48	0.279	0.579	57.29	12.16	1.174	890	0
05/22/2014 01:30	66020	15	142	3.455	116.8	11.59	5.348	111.9	7.23	8.71	110.2	3.81	21.07	21.37	21.69	0.291	0.612	57.34	12.34	1.307	890	0
05/22/2014 01:45	66021	15	142	3.722	124.5	10.94	5.75	119.5	6.956	9.17	114.2	3.38	21.08	21.33	21.56	0.244	0.481	57.03	12.26	1.401	890	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/22/2014 02:00	66022	15	142	3.946	120.3	11.18	5.994	114.8	6.71	9.21	112.8	3.936	20.99	21.24	21.41	0.243	0.42	57.41	12.28	1.444	890	0
05/22/2014 02:15	66023	15	142	3.607	119.2	11.29	5.629	114.2	6.516	8.78	111.2	3.668	20.79	21.03	21.16	0.24	0.369	58.26	12.32	1.314	890	0
05/22/2014 02:30	66024	15	142	3.721	122	11.04	5.562	117.3	6.924	8.52	113.5	3.841	20.76	20.98	21.06	0.226	0.302	59.36	12.57	1.476	890	0
05/22/2014 02:45	66025	15	142	4.342	120.1	11.41	6.483	115.2	6.915	9.77	114.1	3.92	20.9	21.07	21.17	0.171	0.269	60.29	12.93	1.519	890	0
05/22/2014 03:00	66026	15	142	4.234	127.7	11.91	6.244	122.2	7.543	9.1	116.7	4.86	21.01	21.12	21.06	0.109	0.047	60.12	13	1.509	890	0
05/22/2014 03:15	66027	15	142	4.747	135.9	10.48	6.989	131.1	7.425	9.52	126.9	4.874	21.08	21.19	21.05	0.116	-0.029	60.86	13.25	1.532	890	0
05/22/2014 03:30	66028	15	142	4.429	132	11.32	6.488	126.2	7.381	9.07	122.9	5.085	20.93	21.05	20.9	0.124	-0.029	62.84	13.6	1.488	890	0
05/22/2014 03:45	66029	15	142	4.701	127.7	11.14	7.062	123.2	6.817	9.98	120.3	4.087	20.83	20.89	20.7	0.058	-0.126	63.82	13.74	1.446	890	0
05/22/2014 04:00	66030	15	142	4.683	128.2	11.75	6.941	123.6	7.17	9.61	120	4.449	20.86	20.89	20.62	0.026	-0.244	65.31	14.13	1.475	890	0
05/22/2014 04:15	66031	15	142	3.317	122.2	15.4	4.832	116	12.75	7.157	112.1	10.13	20.64	20.74	20.51	0.102	-0.126	68.06	14.56	1.327	890	0
05/22/2014 04:30	66032	15	142	3.553	186	33.76	5.086	178	33.04	7.051	164	31.48	21.07	21.33	21.42	0.255	0.346	63.58	13.9	1.194	890	0
05/22/2014 04:45	66033	15	142	4.245	138.4	15.63	6.375	130.8	11.24	9.38	123.4	7.002	20.2	20.31	20.06	0.111	-0.134	73.15	15.24	1.734	890	0
05/22/2014 05:00	66034	15	142	4.84	130.7	12.69	6.907	125.7	8.87	9.82	121.9	5.837	19.96	20.06	19.88	0.106	-0.076	77.52	15.92	3.808	890	0
05/22/2014 05:15	66035	15	142	4.211	125.4	11.85	6.217	121.8	7.166	8.85	118.1	3.996	19.7	19.82	19.66	0.121	-0.042	78.72	15.92	9	890	0
05/22/2014 05:30	66036	15	142	3.873	126.7	11.96	5.863	120.2	7.982	8.44	118.1	4.913	19.56	19.66	19.5	0.101	-0.064	80.2	16.06	22.09	891	0
05/22/2014 05:45	66037	15	142	3.802	121.6	12.62	5.55	117.6	7.694	8.08	116.1	4.446	19.63	19.63	19.4	0	-0.235	81	16.29	72.48	891	0
05/22/2014 06:00	66038	15	142	4.056	125.9	12.79	5.8	120.5	8.48	8.04	116.5	5.233	20.1	19.92	19.49	-0.188	-0.611	80.3	16.61	149.2	891	0
05/22/2014 06:15	66039	15	142	4.702	132.7	11.66	6.823	126.1	7.611	8.53	122.7	5.482	20.53	20.21	19.69	-0.321	-0.845	79.97	16.97	209.2	891	0
05/22/2014 06:30	66040	15	142	5.056	130.8	12.7	7.14	126.2	7.981	8.65	122	6.006	20.92	20.49	19.9	-0.428	-1.023	79.01	17.16	269.5	891	0
05/22/2014 06:45	66041	15	142	4.914	127.8	14.64	6.858	123	9.73	8.26	118.5	7.179	21.39	20.86	20.21	-0.53	-1.183	77.31	17.27	332.6	891	0
05/22/2014 07:00	66042	15	142	5.332	128.8	12.73	7.515	122	8.58	9.1	118.3	6.627	21.8	21.13	20.38	-0.673	-1.421	75.32	17.26	401.6	891	0
05/22/2014 07:15	66043	15	142	5.297	140.5	12.95	7.464	134.6	9.22	9.26	129.3	6.722	22.14	21.34	20.51	-0.806	-1.632	73.85	17.27	459.8	892	0
05/22/2014 07:30	66044	15	142	5.315	138.3	14.66	7.277	133.1	10.04	8.74	129	7.596	22.59	21.64	20.74	-0.948	-1.844	71.67	17.23	538.5	892	0
05/22/2014 07:45	66045	15	142	5.087	140	13.32	6.924	134.6	9.87	8.34	130.6	6.727	23.06	22.05	21.11	-1.007	-1.953	69.49	17.19	597.3	892	0
05/22/2014 08:00	66046	15	142	4.797	134.6	13.21	6.568	130.4	9.1	7.645	127.3	7.416	23.7	22.48	21.58	-1.218	-2.121	66.21	17.04	656.3	892	0
05/22/2014 08:15	66047	15	142	4.467	134.9	15.24	6.062	129.3	11.16	7.183	125.3	8.08	24.1	22.88	21.95	-1.226	-2.158	64.47	17	732	892	0
05/22/2014 08:30	66048	15	142	4.84	151.8	16.5	6.432	145.5	13.23	7.448	141.8	12.35	24.6	23.24	22.25	-1.352	-2.342	61.86	16.82	774.8	892	0
05/22/2014 08:45	66049	15	142	4.57	154.4	15.84	6.238	147.8	14.1	7.225	143	11	24.78	23.48	22.56	-1.302	-2.217	60.4	16.62	660.2	892	0
05/22/2014 09:00	66050	15	142	4.284	151.6	15.2	5.709	146.8	12.67	6.723	143.7	11.4	24.87	23.68	22.74	-1.19	-2.135	60.43	16.71	590	892	0
05/22/2014 09:15	66051	15	142	4.26	155.7	14.52	5.724	147.9	11.61	6.331	142.6	12.24	25.4	23.88	23.07	-1.515	-2.329	58.12	16.58	822	892	0
05/22/2014 09:30	66052	15	142	4.462	144.3	20.02	5.906	140.1	17.25	6.8	135.8	15.05	26.07	24.65	23.65	-1.419	-2.412	55.14	16.38	781.2	892	0
05/22/2014 09:45	66053	15	142	4.145	149.1	17.4	5.581	143.7	13.08	6.359	141	10.38	25.62	24.31	23.52	-1.309	-2.101	55.88	16.17	611.8	892	0
05/22/2014 10:00	66054	15	142	3.736	160.3	16.64	4.865	155.9	11.86	5.72	148.8	8.63	26.27	24.71	23.67	-1.56	-2.6	53.99	16.24	913	892	0
05/22/2014 10:15	66055	15	142	3.48	136.5	19.56	4.522	131.8	13.84	5.23	130.2	12.23	26.72	25.06	24.23	-1.658	-2.485	51.96	16.05	926	892	0
05/22/2014 10:30	66056	15	142	3.012	154	31.28	3.928	146.8	30.15	4.863	143.1	28.01	26.76	25.57	24.6	-1.189	-2.155	49.46	15.31	514.4	892	0
05/22/2014 10:45	66057	15	142	3.094	170.4	23.28	4.121	163.6	21.28	5.096	155.9	16.18	26.67	25.78	24.95	-0.893	-1.716	47.77	14.7	335.2	892	0
05/22/2014 11:00	66058	15	142	4.621	150.2	14.02	6.252	144.7	10.39	7.33	142.5	9.11	26.66	25.76	25.01	-0.902	-1.655	50.07	15.42	333.8	892	0
05/22/2014 11:15	66059	15	142	4.855	158.3	15.21	6.493	153	12.85	7.642	149	10.28	27.09	26.01	25.25	-1.086	-1.847	50.38	15.92	556.4	892	0
05/22/2014 11:30	66060	15	142	4.755	150.3	16.51	6.271	144.5	14.55	7.474	141	13.7	27.43	26.03	25.02	-1.393	-2.409	49.59	15.97	792.2	892	0
05/22/2014 11:45	66061	15	142	4.351	136.2	16.09	5.772	132.2	11.97	6.557	129.7	9.11	27.57	25.94	24.92	-1.632	-2.647	48.12	15.63	975	892	0
05/22/2014 12:00	66062	15	142	5.138	128.6	18.59	6.939	122.3	14.41	8.54	120.3	11.4	27.7	26.35	25.27	-1.353	-2.431	48.67	15.91	551.2	892	0
05/22/2014 12:15	66063	15	142	6.445	127.4	14.64	9.06	122.3	10.53	10.99	119.6	7.143	26.91	25.75	24.72	-1.162	-2.188	51.95	16.22	482.6	892	0
05/22/2014 12:30	66064	15	142	6.402	131.7	12.77	8.9	126.6	8.57	10.97	121.3	5.64	26.17	25.01	23.87	-1.166	-2.305	54.08	16.18	549.2	892	0
05/22/2014 12:45	66065	15	142	7.561	130.3	13.41	10.49	125.3	9.75	12.68	121.1	7.797	26.82	25.29	23.99	-1.524	-2.828	52.82	16.4	990	891	0
05/22/2014 13:00	66066	15	142	6.937	119.3	16.96	9.49	114.7	13	11.19	109.7	9.41	27.29	25.33	23.99	-1.959	-3.301	50.62	16.17	1278	891	0
05/22/2014 13:15	66067	15	142	8.75	121.4	12.49	12.09	117.2	8.18	15.41	114	5.067	26.71	25.39	24.07	-1.319	-2.645	47.79	14.74	643.8	891	0
05/22/2014 13:30	66068	15	142	8.18	126	12.35	11.61	120.5	8.07	14.46	116.8	5.387	26.17	25.19	24.13	-0.976	-2.035	49.09	14.66	468.2	891	0
05/22/2014 13:45	66069	15	142	7.429	123.4	13.7	10.53	118.6	9.77	13.43	115.5	7.779	26.36	25.7	24.9	-0.658	-1.464	43.88	13.1	216.7	890	0
05/22/2014 14:00	66070	15	142	7.815	126.2	11.15	11.34	121.4	7.085	14.36	118.3	4.715	26.45	26.11	25.52	-0.337	-0.929	37.35	10.74	74.32	889	0
05/22/2014 14:15	66071	15	142	6.253	125.9	11.63	8.87	120.4	7.523	11.77	116.2	5.636	26.34	26.17	25.7	-0.17	-0.646	33.95	9.22	16.04	890	0
05/22/2014 14:30	66072	15	142	5.004	117.9	12.69	7.405	113.3	7.805	9.93	109.4	4.225	26.19	26.08	25.66	-0.116	-0.535	32.99	8.66	12.05	890	0
05/22/2014 14:45	66073	15	142	4.653	118.3	11.91	6.786	114.6	7.544	9.06	110	4.952	26.46	26.39	26.04	-0.062	-0.418	29.95	7.465	20.27	890	0
05/22/2014 15:00	66074	15	142	4.404	113.1	11.63	6.647	109	7.386	9.27	105.2	4.178	26.59	26.54	26.2	-0.049	-0.384	27.67	6.434	32.45	890	0
05/22/2014 15:15	66075	15	142	4.355	112.6	11.31	6.262	108.6	7.342	8.63	104	3.553	26.64	26.57	26.22	-0.075	-0.421	27.76	6.526	49.84	890	0
05/22/2014 15:30	66076	15	142	3.235	200.7	56.63	4.443	195.9	60.31	5.363	190.7	67.6	25.54	25.43	24.94	-0.118	-0.608	35.44	8.79	47.89	890	0
05/22/2014 15:45	66077	15	142	2.952	290.4	37.59	4.015	285	33.91	4.945	265.7	22.77	24.53	24.31	24.18	-0.222	-0.35	44.97	11.73	58.61	891	0
05/22/2014 16:00	66078	15	142	3.175	256.8	15.72	4.63	252.4	15.32	5.737	246.1	14.5	24.25	24.04	23.56	-0.21	-0.692	50.07	13.19	26.29	891	0
05/22/2014 16:15	66079	15	142	4.414	234.9	23.31	6.075	228.5	21.56	8.35	224	17.51	23.74	23.63	23.31	-0.108	-0.425	55.43	14.3	14.74	892	0
05/22/2014 16:30	66080	15	142	5.236	206.7	11.66	7.229	197.7	9.38	9.6	196.6	6.895	22.31	22.58	22.36	0.267	0.045	58.04	13.65	10.83	892	0

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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
05/22/2014 16:45	66081	15	142	4.665	217.3	12.99	6.509	209.3	11.3	9.01	208.7	8.77	20.26	20.31	20.08	0.051	-0.185	66.98	13.94	11.86	893	0
05/22/2014 17:00	66082	15	142	3.215	241.7	11.95	4.204	234.9	11.46	6.312	231.7	8.73	20.35	20.37	20.36	0.022	0.007	65.78	13.75	21.13	892	0
05/22/2014 17:15	66083	15	142	1.812	284.9	23.13	2.763	275.5	17.57	5.507	258.3	10.74	20.58	20.79	21.7	0.208	1.116	65.02	13.79	85.8	891	0
05/22/2014 17:30	66084	15	142	1.911	336.8	20.81	2.738	323.5	19.71	3.308	295.5	12.34	21.84	21.88	23.19	0.04	1.357	58.85	13.43	243	891	0
05/22/2014 17:45	66085	15	142	1.919	20.52	30.98	2.518	14.66	29.1	2.914	355.8	31.89	23.3	22.97	22.74	-0.329	-0.56	48.68	11.89	295.8	891	0
05/22/2014 18:00	66086	15	142	2.344	66.38	12.12	3.198	59.86	9.7	3.317	47.54	11.78	22.93	22.77	22.46	-0.164	-0.471	51.67	12.48	144.3	891	0
05/22/2014 18:15	66087	15	142	3.454	78.11	9.7	4.99	73.78	7.107	6.488	68.26	4.326	21.97	21.98	21.71	0.012	-0.257	56.01	12.79	66.08	891	0
05/22/2014 18:30	66088	15	142	3.425	85.2	11.72	4.923	81.3	7.777	7.134	74.35	4.592	21.18	21.22	21.3	0.038	0.119	58.38	12.71	56.78	891	0
05/22/2014 18:45	66089	15	142	2.739	86.8	10.74	4.142	82	7.202	6.468	76.66	3.84	20.83	21.04	22.28	0.208	1.452	56.76	11.96	24.64	891	0
05/22/2014 19:00	66090	15	142	2.436	94.9	10.44	3.923	89	5.989	6.777	79.01	2.73	20.35	20.66	22.6	0.306	2.245	57.54	11.72	5.857	892	0
05/22/2014 19:15	66091	15	142	1.974	105.3	10.89	3.461	99.3	6.296	6.548	91	2.085	20.16	20.51	22.62	0.35	2.46	58.13	11.69	1.088	892	0
05/22/2014 19:30	66092	15	142	1.569	114.5	12.01	2.898	106.4	8.82	6.631	99.9	2.868	20.21	20.68	22.67	0.461	2.452	57.82	11.66	1.064	892	0
05/22/2014 19:45	66093	15	142	1.33	116.5	10.21	2.843	108.9	4.907	6.818	106.1	2.819	19.54	20.32	22.6	0.78	3.062	61.38	11.93	1.317	892	0
05/22/2014 20:00	66094	15	142	1.76	117.2	11.41	3.204	109.3	6.232	7.114	109.2	2.434	19.91	20.42	22.89	0.505	2.973	62.94	12.66	1.219	892	0
05/22/2014 20:15	66095	15	142	2.045	119.5	11.28	3.568	114.4	7.057	7.507	118	3.25	20.51	20.95	22.86	0.431	2.342	62.83	13.21	1.299	892	0
05/22/2014 20:30	66096	15	142	2.378	116	11.09	4.067	113.2	6.001	7.535	120.5	1.617	20.68	21.03	22.83	0.352	2.156	63.29	13.47	1.284	892	0
05/22/2014 20:45	66097	15	142	2.354	113.2	10.11	3.975	109.5	5.729	7.243	115.6	1.442	21.03	21.38	22.78	0.351	1.75	62.72	13.66	1.357	892	0
05/22/2014 21:00	66098	15	142	2.191	114.3	12.89	3.583	109.7	7.709	7.268	114.2	1.558	21.3	21.57	22.61	0.274	1.313	62.09	13.76	1.222	892	0
05/22/2014 21:15	66099	15	142	1.98	114.6	10.8	3.391	111.8	6.994	6.872	118.5	2.784	21.04	21.34	22.24	0.299	1.195	62.9	13.72	1.17	892	0
05/22/2014 21:30	66100	15	142	1.694	98.1	10.87	2.962	99.8	8.21	6.389	115.1	3.382	20.75	21.11	22.14	0.367	1.399	64.87	13.92	0.935	892	0
05/22/2014 21:45	66101	15	142	1.536	73.16	11.31	2.839	78.45	7.937	5.302	105.2	4.629	20.44	20.97	21.85	0.524	1.408	66.13	13.92	1.022	892	0
05/22/2014 22:00	66102	15	142	1.498	81	11.96	2.957	85	7.811	5.164	101.8	4.546	19.99	20.65	21.69	0.657	1.693	67.55	13.82	0.937	893	0
05/22/2014 22:15	66103	15	142	1.362	98.6	8.69	2.779	97	5.529	5.437	104.6	4.854	19.88	20.57	21.52	0.687	1.642	67.47	13.7	0.966	893	0
05/22/2014 22:30	66104	15	142	1.563	76.41	8.38	2.976	78.61	5.325	5.371	98.4	2.789	19.62	20.21	21.24	0.59	1.619	67.19	13.39	0.959	892	0
05/22/2014 22:45	66105	15	142	1.579	88.5	9.95	3.053	87.2	6.428	5.875	103.8	4.092	19.54	20.06	21.33	0.516	1.783	67.23	13.32	1.042	892	0
05/22/2014 23:00	66106	15	142	1.746	92.7	8.43	3.232	93.5	4.584	5.584	113	3.921	19.55	20.06	21.49	0.518	1.949	67.67	13.42	1.072	892	0
05/22/2014 23:15	66107	15	142	1.595	96.6	10.42	3.152	95	5.971	4.994	115.8	3.164	19.36	19.95	21.36	0.597	2.006	68.7	13.48	0.934	892	0
05/22/2014 23:30	66108	15	142	1.235	77.84	13.52	2.667	88.4	6.989	4.664	114.5	2.009	18.69	19.58	20.98	0.896	2.294	71.68	13.48	0.761	892	0
05/22/2014 23:45	66109	15	142	1.539	64.15	9.55	3.247	75.88	3.413	4.995	113.3	2.194	18.03	19.26	20.94	1.23	2.915	74.85	13.52	1.035	892	0
05/23/2014 00:00	66110	15	143	1.653	86.9	10.43	3.519	90.6	8.16	5.724	119.2	5.775	18.07	19.15	21.02	1.08	2.942	76.08	13.81	0.906	892	0
05/23/2014 00:15	66111	15	143	1.618	95.1	8.72	3.408	101	5.357	6.095	121.6	5.103	18.36	19.34	21.04	0.987	2.679	76.82	14.23	1.044	892	0
05/23/2014 00:30	66112	15	143	1.837	82	9.15	3.453	85.7	6.043	5.749	113.8	3.357	18.63	19.34	20.97	0.712	2.337	77.41	14.62	1.027	892	0
05/23/2014 00:45	66113	15	143	1.728	63.03	11.65	3.407	69.45	6.471	4.788	106.5	3.814	18.39	19.11	21.01	0.726	2.622	77.39	14.38	0.884	892	0
05/23/2014 01:00	66114	15	143	1.581	54.2	9.14	3.381	59.5	3.041	4.366	100.5	4.5	17.78	18.95	20.96	1.168	3.179	79.61	14.22	0.907	892	0
05/23/2014 01:15	66115	15	143	1.554	52.93	9.84	3.33	53.68	3.031	3.959	98.4	5.555	17.57	18.59	20.88	1.013	3.308	81.4	14.36	0.858	892	0
05/23/2014 01:30	66116	15	143	1.916	56.16	9.05	3.852	56.77	2.243	4.461	89.4	5.122	17.35	18.15	20.71	0.794	3.359	82.4	14.34	0.846	892	0
05/23/2014 01:45	66117	15	143	2.096	61.89	9.01	3.91	58.79	3.655	4.927	84.2	2.93	17.32	17.86	20.59	0.54	3.265	83.2	14.47	0.994	892	0
05/23/2014 02:00	66118	15	143	1.832	60.06	10.45	3.645	61.44	4.105	5.042	90.2	3.896	17.34	18	20.63	0.654	3.285	84.3	14.68	1.114	892	0
05/23/2014 02:15	66119	15	143	1.492	68.89	15.32	3.338	75.66	9.97	4.962	98.8	4.899	17.15	18.3	20.57	1.152	3.419	85.4	14.69	0.99	892	0
05/23/2014 02:30	66120	15	143	2.026	85.5	9.43	3.941	85.4	4.427	5.723	97.8	2.835	17.84	18.71	20.55	0.869	2.714	85.1	15.32	0.977	891	0
05/23/2014 02:45	66121	15	143	1.733	77.79	10.15	3.351	80.2	5.757	5.383	97.5	3.583	18.07	18.72	20.51	0.649	2.444	84.3	15.39	0.989	891	0
05/23/2014 03:00	66122	15	143	1.099	39.46	38.35	2.194	56.42	25.35	4.215	93.3	4.822	17.36	18.1	20.31	0.73	2.941	86.3	15.07	0.77	891	0
05/23/2014 03:15	66123	15	143	1.994	10.26	19.43	3.723	11.48	11.76	4.589	33.89	16.33	17	17.42	18.71	0.42	1.712	88.6	15.11	0.923	892	0
05/23/2014 03:30	66124	15	143	2.414	39.29	14.93	4.024	34.52	10.79	6.055	36.79	5.663	17.27	17.41	17.43	0.138	0.162	87.9	15.27	1.204	891	0
05/23/2014 03:45	66125	15	143	2.655	43.55	13.12	4.281	38.77	7.207	6.498	38.72	4.193	16.87	16.92	16.67	0.045	-0.2	88	14.89	1.312	891	0
05/23/2014 04:00	66126	15	143	2.867	50.28	12.4	4.511	45.5	8.04	7.052	44.07	4.432	16.58	16.61	16.42	0.035	-0.152	87.6	14.53	1.171	891	0
05/23/2014 04:15	66127	15	143	3.402	59.05	11.32	5.173	54.63	7.002	7.84	52.41	3.696	16.41	16.46	16.3	0.05	-0.11	87.9	14.41	1.256	892	0
05/23/2014 04:30	66128	15	143	3.487	59.47	10.78	5.154	55.67	7.248	7.564	53.64	3.724	16.42	16.43	16.21	0.01	-0.21	88.5	14.53	1.346	892	0
05/23/2014 04:45	66129	15	143	3.838	59.48	11.37	5.677	55.27	6.995	7.925	53.31	4.52	16.39	16.37	16.08	-0.018	-0.316	88.5	14.51	1.491	892	0
05/23/2014 05:00	66130	15	143	3.934	47.45	13.84	5.952	42.18	9.52	8.42	39.9	7.879	16.34	16.29	15.95	-0.052	-0.397	88.9	14.53	3.516	892	0
05/23/2014 05:15	66131	15	143	4.573	50.5	13.23	6.868	46.22	7.2	8.96	45.53	5.043	16.39	16.29	15.91	-0.095	-0.48	88.7	14.53	22.68	892	0
05/23/2014 05:30	66132	15	143	4.835	56.69	11.87	7.03	52	7.559	9.41	49.3	5.038	16.73	16.58	16.15	-0.151	-0.575	87.3	14.61	71.91	893	0
05/23/2014 05:45	66133	15	143	4.744	54.4	12.9	6.978	49.19	7.359	9.17	46.56	4.884	17.21	16.99	16.49	-0.215	-0.715	85.3	14.73	88.7	893	0
05/23/2014 06:00	66134	15	143	5.311	53.93	12.24	7.806	48.1	7.759	9.79	47.68	4.977	17.48	17.22	16.68	-0.26	-0.801	84	14.76	88.5	893	0
05/23/2014 06:15	66135	15	143	5.055	50.01	13.39	7.6	44.01	8.15	9.19	39.87	5.287	17.75	17.43	16.88	-0.312	-0.87	83	14.83	117.6	893	0
05/23/2014 06:30	66136	15	143	5.057	51.76	14.84	7.365	41.85	8.68	9.26	38.57	5.385	18.09	17.7	17.06	-0.39	-1.032	81.8	14.96	194	893	0
05/23/2014 06:45	66137	15	143	5.13	58.54	14.42	7.71	48.78	9.25	9.61	45.36	6.938	18.5	17.99	17.28	-0.517	-1.222	80.3	15.07	279.1	893	0
05/23/2014 07:00	66138	15	143	5.544	58.47	13.63	8.23	49.78	8.4	10.11	47.22	4.461	18.9	18.22	17.41	-0.672	-1.483	78.68	15.13	398.6	893	0
05/23/2014 07:15	66139	15	143	5.824	55.51	13.17	8.6	46.46	7.393	10.12	44.71	5.241	19.12	18.44	17.63	-0.688	-1.494	77.17	15.05	402.8	893	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/23/2014 07:30	66140	15	143	5.044	60.64	14.24	7.242	52.1	9.71	8.93	50.96	5.935	19.79	18.92	18.03	-0.868	-1.752	74.92	15.23	564.6	893	0
05/23/2014 07:45	66141	15	143	4.417	56.86	15.4	6.348	48.7	10.59	7.636	46.61	7.032	20.1	19.35	18.51	-0.748	-1.584	72.63	15.04	273.2	893	0
05/23/2014 08:00	66142	15	143	4.387	64.8	14.56	6.025	56.47	10.61	7.47	55.33	7.628	20.35	19.71	18.95	-0.639	-1.399	72.17	15.19	313.8	893	0
05/23/2014 08:15	66143	15	143	4.759	73.52	13.73	6.394	65.08	11.79	7.635	60.46	8.98	21.72	20.63	19.63	-1.091	-2.089	67.34	15.42	623.1	893	0
05/23/2014 08:30	66144	15	143	4.436	70.95	14.98	5.802	64.78	11.55	6.787	63.69	9.73	22.36	21.11	20.19	-1.259	-2.176	65.48	15.59	884	893	0
05/23/2014 08:45	66145	15	143	3.859	76.91	13.65	4.925	73.11	12.16	5.903	69.76	10.41	22.77	21.39	20.5	-1.381	-2.27	63.56	15.52	952	893	0
05/23/2014 09:00	66146	15	143	3.432	86.7	23.01	4.373	80	18.97	5.067	76.61	12.77	22.82	21.69	20.8	-1.127	-2.015	63.02	15.43	580.4	893	0
05/23/2014 09:15	66147	15	143	3.714	84.8	16.83	4.899	79.26	13.74	5.685	75.07	9.66	22.84	21.79	20.91	-1.054	-1.929	62.28	15.27	468.7	893	0
05/23/2014 09:30	66148	15	143	3.073	97.1	20.89	4.068	89.6	16.57	4.713	84.4	14.4	23.03	22.02	21.31	-1.007	-1.716	60.73	15.05	522.3	893	0
05/23/2014 09:45	66149	15	143	2.416	128	45.78	3.009	118.1	49.5	3.683	104.3	46.12	22.6	22.03	21.4	-0.572	-1.199	61.39	14.81	189.1	893	0
05/23/2014 10:00	66150	15	143	1.39	269.7	56.04	1.617	281.6	41.47	1.83	273.2	43.32	21.43	20.99	20.55	-0.442	-0.884	69.05	15.54	299.5	893	0
05/23/2014 10:15	66151	15	143	1.325	221	34.61	1.64	213.3	29.29	1.822	201.4	26.34	22.11	21.58	21.09	-0.524	-1.023	65.67	15.4	267.9	893	0
05/23/2014 10:30	66152	15	143	1.678	155	62.54	2.184	145.1	63.26	2.703	130.4	54.01	23.04	22.52	21.94	-0.52	-1.101	60.9	15.09	304.7	893	0
05/23/2014 10:45	66153	15	143	1.878	131.3	68.16	2.283	116.9	66.74	2.925	101.4	49.54	23.4	22.95	22.46	-0.458	-0.943	57.52	14.56	230.8	893	0
05/23/2014 11:00	66154	15	143	1.58	320.3	62.03	1.809	312.7	63.87	2.067	292.6	61.71	22.99	22.62	22.09	-0.366	-0.9	61.27	15.15	224.7	893	0
05/23/2014 11:15	66155	15	143	2.098	307.2	19.52	2.308	301.9	15.11	2.527	290.1	14.56	22.94	22.56	21.99	-0.371	-0.944	61.75	15.22	108.3	892	0
05/23/2014 11:30	66156	15	143	2.786	290.7	12.83	3.334	287.9	9.53	3.267	283.4	8.18	22.93	22.51	22.08	-0.421	-0.85	63.63	15.69	275.4	892	0
05/23/2014 11:45	66157	15	143	3.082	300.6	20.88	3.33	297.3	15.93	3.363	295.1	12.65	24.55	23.5	22.73	-1.053	-1.826	57.34	15.58	1038	892	0
05/23/2014 12:00	66158	15	143	4.24	1.647	20.01	5.773	359.8	17.49	6.494	354.1	14.21	23.18	22.13	21.46	-1.05	-1.72	60.44	15.12	541.8	892	0
05/23/2014 12:15	66159	15	143	3.114	12.45	21.67	4.204	8.71	18.68	4.868	6.557	16.84	24.83	23.61	22.75	-1.215	-2.079	53.05	14.6	810	892	0
05/23/2014 12:30	66160	15	143	4.498	45	17.67	6.424	39.86	12.41	7.522	36.3	8.33	26.15	24.29	22.95	-1.86	-3.199	47.55	14.13	1211	892	0
05/23/2014 12:45	66161	15	143	4.363	39.56	15.11	6.399	36.38	10.47	7.587	34.56	6.749	25.44	23.76	22.63	-1.679	-2.814	50.6	14.44	950	891	0
05/23/2014 13:00	66162	15	143	5.086	42.66	15.6	7.358	38.94	10.14	8.49	36.28	7.817	26.65	24.72	23.46	-1.934	-3.188	47.09	14.43	1219	891	0
05/23/2014 13:15	66163	15	143	3.924	43.85	21.79	5.386	38.63	15.66	6.298	35.95	11.71	27.52	25.7	24.48	-1.814	-3.039	41.81	13.41	1260	891	0
05/23/2014 13:30	66164	15	143	3.312	19.98	22.03	4.445	15.57	15.79	5.385	14.44	11.3	26.87	25.4	24.38	-1.467	-2.491	41.93	12.87	770.9	891	0
05/23/2014 13:45	66165	15	143	3.52	34.23	19.57	4.792	30.19	15.74	5.585	27.92	11.95	26.73	25.52	24.61	-1.213	-2.122	42.86	13.08	568.5	891	0
05/23/2014 14:00	66166	15	143	3.542	41.71	20.34	4.989	35.59	15.3	5.739	31.04	12.19	26.4	25.32	24.58	-1.077	-1.817	44.84	13.48	442.9	891	0
05/23/2014 14:15	66167	15	143	3.997	72.67	25.47	5.468	68.92	22.67	6.291	68.65	19.04	26.17	25.29	24.54	-0.88	-1.637	47.34	14.11	356.3	890	0
05/23/2014 14:30	66168	15	143	4.339	83.2	15.54	5.736	78.5	11.31	6.696	74.18	9.64	26.27	25.46	24.65	-0.803	-1.612	45.44	13.56	361.2	890	0
05/23/2014 14:45	66169	15	143	4.504	67.96	13.84	6.246	62.63	8.91	7.309	61.99	6.921	26.4	25.57	24.84	-0.832	-1.567	43.92	13.16	364.3	889	0
05/23/2014 15:00	66170	15	143	5.048	78.98	13.35	6.748	74.69	10.64	8.16	71.63	7.41	26.74	25.87	24.97	-0.867	-1.764	43.29	13.24	483.4	889	0
05/23/2014 15:15	66171	15	143	4.685	74.47	16.92	6.043	70.43	14.02	7.263	68.72	11.23	27.03	26.07	25.12	-0.958	-1.909	41.98	13.03	576.7	889	0
05/23/2014 15:30	66172	15	143	4.335	86.9	14.25	5.864	82.6	9.81	6.916	79.86	7.532	27.3	26.28	25.33	-1.018	-1.969	39.51	12.34	561.6	889	0
05/23/2014 15:45	66173	15	143	4.697	78.18	16.47	6.225	74.58	13.82	7.383	73.12	10.65	27.64	26.57	25.64	-1.076	-2	39.03	12.47	581.6	889	0
05/23/2014 16:00	66174	15	143	4.386	78	17.88	5.982	72.58	13.6	7.079	68.68	10.91	26.98	26.27	25.48	-0.704	-1.499	40.09	12.28	319.4	889	0
05/23/2014 16:15	66175	15	143	4.428	70.77	13.63	5.927	67.3	10.35	7.2	63.52	7.836	27.41	26.54	25.67	-0.875	-1.742	39.9	12.6	493.7	889	0
05/23/2014 16:30	66176	15	143	4.4	68.51	18.82	5.878	62.73	14.74	6.887	61.31	12.12	27.96	26.85	25.86	-1.109	-2.101	38.55	12.56	694	889	0
05/23/2014 16:45	66177	15	143	4.984	70.66	19.7	6.637	66.87	15.01	7.871	63.27	11.23	28.03	26.87	25.97	-1.166	-2.06	38.34	12.55	649.9	889	0
05/23/2014 17:00	66178	15	143	4.499	83.1	14.84	5.946	77.92	11.28	7.189	70.69	9.59	28.12	27.15	26.2	-0.969	-1.916	38.79	12.8	507.1	889	0
05/23/2014 17:15	66179	15	143	4.211	73.11	14.36	5.859	68.11	11.69	7.059	65.5	9.26	27.95	27.1	26.23	-0.851	-1.721	39.36	12.87	372.4	889	0
05/23/2014 17:30	66180	15	143	4.511	79.84	13.45	6.32	76.07	9.86	7.832	71.54	7.688	27.04	26.62	25.97	-0.421	-1.079	42.39	13.19	105.8	889	0
05/23/2014 17:45	66181	15	143	4.995	73.65	12.02	6.962	70.22	8.85	8.89	67.18	6.038	26.39	26.12	25.55	-0.271	-0.833	44.49	13.35	71.55	888	0
05/23/2014 18:00	66182	15	143	5.265	83.6	12.45	7.548	79.26	9.43	9.69	75.33	7.002	25.44	25.59	25.15	0.143	-0.289	48.68	13.79	26.09	888	0.254
05/23/2014 18:15	66183	15	143	5.764	87.5	11.41	8.65	84.3	7.452	12.48	81.6	4.066	21.75	22.21	22.63	0.46	0.88	72.34	16.52	2.791	889	2.794
05/23/2014 18:30	66184	15	143	7.27	79.85	9.91	10.16	76.02	7.397	14.46	74.18	4.521	20.67	20.88	21.1	0.208	0.429	80.5	17.21	2.736	888	0.508
05/23/2014 18:45	66185	15	143	4.645	127.7	82.4	6.575	121.5	85	8.97	103.1	81.8	20.44	20.63	20.66	0.188	0.218	81.3	17.15	2.385	889	0
05/23/2014 19:00	66186	15	143	7.322	335.8	44.93	9.83	332.9	43.16	10.49	326.7	40.45	21.1	21.53	21.39	0.431	0.286	74.01	16.29	2.062	890	0
05/23/2014 19:15	66187	15	143	6.098	67.69	15.82	8.53	64.55	12.94	11.04	63.13	10.97	21.66	22.1	22.14	0.44	0.481	69.17	15.78	2.046	890	0
05/23/2014 19:30	66188	15	143	5.844	66.4	12.08	8.58	64.23	8.15	11.63	64.43	5.852	21.35	21.77	21.96	0.419	0.605	70.06	15.69	1.836	890	0
05/23/2014 19:45	66189	15	143	6.172	77.41	10.77	8.74	73.5	7.976	12.24	71.06	5.44	20.88	21.17	21.18	0.286	0.297	71.48	15.55	1.765	890	0
05/23/2014 20:00	66190	15	143	5.441	71.08	11.04	7.882	66.2	9.15	11.03	64.27	7.73	20.19	20.39	20.33	0.193	0.132	74.76	15.58	1.571	890	0
05/23/2014 20:15	66191	15	143	6.182	83.2	11.37	8.81	80.1	8.33	12.24	76.76	5.227	20.16	20.34	20.23	0.182	0.07	75.52	15.71	1.701	890	0
05/23/2014 20:30	66192	15	143	6.084	87.8	11.53	8.64	83.1	8.17	12.27	80.7	6.369	20.02	20.19	20.06	0.169	0.043	76.47	15.77	1.948	890	0
05/23/2014 20:45	66193	15	143	6.36	95.1	11.38	9.05	91.5	8.03	12.72	89	4.95	19.68	19.83	19.65	0.15	-0.026	77.99	15.75	1.675	890	0
05/23/2014 21:00	66194	15	143	6.771	98.1	10.92	9.48	94.5	6.872	12.91	91.7	4.365	19.25	19.35	19.15	0.106	-0.096	81.1	15.95	1.814	890	0
05/23/2014 21:15	66195	15	143	6.539	96.4	11.22	9.23	93.1	7.553	12.85	91	4.801	19.11	19.21	19.02	0.1	-0.095	82.9	16.15	1.865	890	0
05/23/2014 21:30	66196	15	143	6.276	94.6	10.62	8.83	90.7	6.991	12.39	88.5	4.392	18.95	19.04	18.84	0.092	-0.101	83.9	16.17	1.902	890	0
05/23/2014 21:45	66197	15	143	6.169	97	10.93	8.81	93.5	7.437	12.42	91.4	4.535	18.81	18.92	18.76	0.108	-0.05	84.2	16.1	1.661	890	0
05/23/2014 22:00	66198	15	143	6.212	102.2	10.8	8.58	98.6	6.849	12.22	95.3	4.536	18.79	18.9	18.76	0.11	-0.033	83.4	15.95	1.754	890	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/23/2014 22:15	66199	15	143	5.641	101.8	11.17	7.942	98.1	7.194	11.07	93.8	4.973	18.68	18.8	18.61	0.12	-0.071	83.6	15.86	1.716	890	0
05/23/2014 22:30	66200	15	143	5.497	102.2	11.11	7.666	98.9	7.824	10.89	94.8	4.985	18.56	18.68	18.5	0.114	-0.059	84.2	15.86	1.561	890	0
05/23/2014 22:45	66201	15	143	5.048	108	11.41	7.302	104	7.602	10.32	99.7	4.751	18.48	18.62	18.44	0.136	-0.044	84.2	15.77	1.539	890	0
05/23/2014 23:00	66202	15	143	4.99	112	11.86	7.217	107.6	7.496	10.25	104.8	4.78	18.34	18.48	18.32	0.14	-0.014	84.7	15.72	1.448	889	0
05/23/2014 23:15	66203	15	143	4.666	118.3	11.57	6.766	113.2	7.103	9.71	109.5	4.529	18.36	18.52	18.41	0.155	0.047	84.7	15.75	1.437	890	0
05/23/2014 23:30	66204	15	143	4.849	118.2	11.73	7.144	114.5	7.407	10.19	112.3	5.254	18.55	18.72	18.63	0.17	0.082	84.4	15.89	1.574	889	0
05/23/2014 23:45	66205	15	143	5.216	120.9	11.58	7.666	117	7.79	10.61	113.7	5.017	18.8	18.96	18.8	0.163	0.002	83.6	15.98	1.64	889	0
05/24/2014 00:00	66206	15	144	4.47	119.3	13.08	6.353	115.7	8.48	9.05	114.3	6.021	18.75	18.89	18.69	0.145	-0.054	83.9	15.98	1.457	889	0
05/24/2014 00:15	66207	15	144	4.019	117.2	12.63	5.754	113.7	8.51	7.895	111.5	5.958	18.57	18.72	18.5	0.144	-0.076	84.9	16	1.286	889	0
05/24/2014 00:30	66208	15	144	4.214	121.1	12.9	6.211	116.7	8.59	8.51	114.9	6.186	18.43	18.58	18.35	0.149	-0.074	86.1	16.08	1.434	889	0
05/24/2014 00:45	66209	15	144	3.794	119.7	13.03	5.426	116.7	8.69	7.374	114.6	7.609	18.48	18.62	18.37	0.139	-0.113	86.3	16.17	1.303	889	0
05/24/2014 01:00	66210	15	144	3.594	122	12.19	5.194	117.5	8.51	7.348	116	7.448	18.37	18.51	18.29	0.147	-0.078	87	16.18	1.187	889	0
05/24/2014 01:15	66211	15	144	3.233	117.9	13.28	4.889	113.9	8.54	6.677	114.1	6.25	18.24	18.38	18.14	0.145	-0.091	87.7	16.18	0.98	889	0
05/24/2014 01:30	66212	15	144	3.07	123.6	14.75	4.458	119.9	9.69	6.359	120.2	7.74	18.26	18.41	18.24	0.148	-0.025	87.9	16.24	1.219	889	0
05/24/2014 01:45	66213	15	144	3.065	137.8	13.24	4.472	132.2	9.86	6.373	129.1	7.2	18.41	18.55	18.43	0.148	0.025	87.7	16.35	1.201	889	0
05/24/2014 02:00	66214	15	144	2.499	154.2	13.75	3.719	147.9	10.31	5.204	143.9	8.76	18.65	18.74	18.51	0.091	-0.138	87.4	16.54	1.087	889	0
05/24/2014 02:15	66215	15	144	2.65	155.8	12.71	3.928	151.4	8.82	5.464	148.1	7.017	18.77	18.81	18.54	0.041	-0.236	87.1	16.59	1.033	889	0
05/24/2014 02:30	66216	15	144	1.961	154.9	17.83	2.765	150.1	14.12	3.994	147.8	10.65	18.85	18.86	18.54	0.015	-0.306	86.8	16.61	0.829	890	0
05/24/2014 02:45	66217	15	144	1.531	137.2	17.46	2.17	133.6	12.36	3.07	135.6	10.31	18.85	18.86	18.53	0.008	-0.316	87	16.66	0.624	890	0
05/24/2014 03:00	66218	15	144	1.49	157.5	15.21	2.08	150	11.42	3.025	147.5	10.04	18.9	18.9	18.57	0.006	-0.328	87.1	16.71	0.875	890	0
05/24/2014 03:15	66219	15	144	2	140.8	12.91	3.107	136.5	9.03	4.401	135.5	7.166	18.85	18.87	18.59	0.016	-0.267	87.6	16.77	0.997	890	0
05/24/2014 03:30	66220	15	144	2.76	134.6	11.13	3.942	129.7	7.689	5.57	130.3	5.785	18.94	18.94	18.65	-0.003	-0.294	87.6	16.84	0.94	890	0
05/24/2014 03:45	66221	15	144	3.056	144.6	12.27	4.544	139.5	7.62	6.413	136.6	5.059	18.95	18.95	18.65	0.004	-0.297	87.7	16.88	1.297	889	0
05/24/2014 04:00	66222	15	144	3.18	146.8	11.83	4.756	141.8	7.785	6.817	139.9	4.717	18.91	18.93	18.72	0.02	-0.185	88.3	16.94	1.226	889	0
05/24/2014 04:15	66223	15	144	3.103	152.5	11.33	4.589	145.4	8.52	6.671	143.1	6.584	19.03	19.04	18.78	0.015	-0.246	88.1	17.03	1.176	889	0
05/24/2014 04:30	66224	15	144	3.07	157.8	12.74	4.222	152.3	8.8	5.858	147.7	6.559	19.18	19.18	18.87	-0.002	-0.312	87.9	17.13	1.14	889	0
05/24/2014 04:45	66225	15	144	2.791	161.2	12.44	4.002	157	10.17	5.43	153.6	7.658	19.28	19.29	18.99	0.016	-0.288	87.7	17.2	1.105	890	0
05/24/2014 05:00	66226	15	144	2.131	186.8	19.94	2.881	178.6	17.79	4.016	166.5	10.69	19.38	19.38	19.07	0.001	-0.311	87.4	17.25	1.2	890	0
05/24/2014 05:15	66227	15	144	1.611	268.8	26.99	2.468	266.4	25.14	3.366	256.4	28.11	19.31	19.29	18.94	-0.026	-0.372	88	17.3	1.203	890	0
05/24/2014 05:30	66228	15	144	2.143	204.2	57.87	3.029	204.6	46.87	3.977	208.3	30.67	19.7	19.79	19.69	0.092	-0.014	86.3	17.36	3.154	890	0
05/24/2014 05:45	66229	15	144	3.501	162.3	13.77	4.918	161	12.15	5.926	165.7	12.96	20.19	20.36	20.12	0.176	-0.063	82.3	17.09	23.13	890	0
05/24/2014 06:00	66230	15	144	4.254	143.1	17.36	6.198	139.1	12.94	7.495	139	9.63	19.96	20.09	19.82	0.132	-0.144	84	17.2	49.74	890	0
05/24/2014 06:15	66231	15	144	2.93	153.9	13.55	4.299	148	8.76	5.4	149.1	8.72	20.08	20.01	19.74	-0.07	-0.335	84.4	17.39	158.8	890	0
05/24/2014 06:30	66232	15	144	2.811	147.9	16.23	3.902	143.5	12.46	4.964	142.1	9.76	20.37	20.12	19.64	-0.254	-0.737	83.4	17.49	232.6	890	0
05/24/2014 06:45	66233	15	144	2.438	136.1	13.64	3.452	130.6	9.26	4.121	131.4	6.558	20.49	20.19	19.67	-0.301	-0.825	83.1	17.53	164.5	891	0
05/24/2014 07:00	66234	15	144	2.448	142.3	13.49	3.528	136.1	10.43	4.233	132.4	7.482	20.57	20.31	19.79	-0.257	-0.787	82.8	17.57	124.6	891	0
05/24/2014 07:15	66235	15	144	2.222	145.5	21.36	3.236	142.7	14.93	3.966	138.3	9.62	20.62	20.4	19.91	-0.222	-0.711	82.6	17.58	141.9	891	0
05/24/2014 07:30	66236	15	144	5.934	9.73	48.48	8.94	9.82	49.4	11.89	10.35	48.91	17.15	17.02	16.56	-0.131	-0.593	79.22	13.53	28.34	892	0
05/24/2014 07:45	66237	15	144	6.992	37.84	13.15	10.68	34.04	7.932	13.92	31.01	4.625	15.19	14.95	14.43	-0.245	-0.76	82.2	12.18	59.75	892	0
05/24/2014 08:00	66238	15	144	6.634	45.62	13.28	10.22	39.87	10.03	12.84	35.57	8.62	14.32	14.26	13.78	-0.058	-0.54	88.6	12.46	49.3	892	8.38
05/24/2014 08:15	66239	15	144	6.425	51.68	13.43	9.69	47.36	8.81	13.25	45.16	6.505	14.04	13.89	13.48	-0.157	-0.564	93.6	13.04	42.75	892	1.016
05/24/2014 08:30	66240	15	144	6.803	61.72	11.59	9.8	56.71	7.525	13.28	53.12	4.407	14.37	14.09	13.6	-0.28	-0.769	94.3	13.47	345	892	0.762
05/24/2014 08:45	66241	15	144	7.012	67.3	11.18	9.84	62.96	7.621	12.17	59.55	5.529	15.69	15.09	14.3	-0.602	-1.386	93.3	14.62	777.2	892	0
05/24/2014 09:00	66242	15	144	6.922	69.47	11.59	9.7	64.61	8.18	12	61.18	5.237	16.02	15.67	14.87	-0.356	-1.153	89.6	14.33	458.4	892	0
05/24/2014 09:15	66243	15	144	6.755	70.23	11.93	9.45	64.96	8.57	11.71	62.26	5.804	16.92	16.49	15.74	-0.429	-1.184	85.9	14.55	739.2	892	0
05/24/2014 09:30	66244	15	144	7.13	71.38	11.76	9.7	67.49	8.6	12.06	64.73	5.483	17.36	16.92	16.21	-0.441	-1.143	81.7	14.21	620.9	892	0
05/24/2014 09:45	66245	15	144	6.882	71.54	11.4	9.55	66.96	7.56	11.19	63.8	4.713	18.5	17.71	16.87	-0.789	-1.637	77.87	14.58	1106	892	0
05/24/2014 10:00	66246	15	144	6.34	73.2	12.16	8.47	69.49	9.46	10.06	67.09	5.761	19.28	18.44	17.5	-0.844	-1.779	74.57	14.67	1064	892	0
05/24/2014 10:15	66247	15	144	6.274	73.26	11.68	8.61	69.77	7.693	10.08	67.84	5.028	19.6	18.67	17.76	-0.926	-1.835	72.69	14.57	894	892	0
05/24/2014 10:30	66248	15	144	6.051	78.29	13.88	8.23	73.72	11.78	10.05	71.94	7.816	19.93	19.11	18.18	-0.813	-1.745	70.25	14.36	852	892	0
05/24/2014 10:45	66249	15	144	5.787	76.82	13.21	7.963	71.68	9.82	9.45	68.55	6.322	20.15	19.29	18.39	-0.864	-1.761	69.19	14.35	758.9	892	0
05/24/2014 11:00	66250	15	144	4.983	68.35	14.02	6.894	63.58	11.16	8.52	61.74	7.513	20.34	19.67	18.83	-0.671	-1.506	68.66	14.4	557.9	892	0
05/24/2014 11:15	66251	15	144	5.327	70.58	13.92	7.111	65.82	11.21	8.44	65.13	8.43	21.32	20.3	19.3	-1.019	-2.016	65.29	14.55	1121	892	0
05/24/2014 11:30	66252	15	144	5.747	83.5	12.96	7.804	78.95	9.49	9.21	72.75	7.134	21.9	20.69	19.58	-1.213	-2.322	62.81	14.51	1289	891	0
05/24/2014 11:45	66253	15	144	5.196	81.6	12.92	6.984	77	9.6	8.14	71.81	6.855	22.34	21.11	20.05	-1.226	-2.281	62.35	14.81	1185	891	0
05/24/2014 12:00	66254	15	144	4.879	79.65	16.49	6.464	75.7	13.71	7.563	73.67	9.93	23.03	21.63	20.56	-1.401	-2.472	58.76	14.54	1360	891	0
05/24/2014 12:15	66255	15	144	4.369	86.2	14.89	5.884	82.2	11.26	7.033	78.54	6.572	22.85	21.8	20.89	-1.055	-1.962	57.23	13.97	803	891	0
05/24/2014 12:30	66256	15	144	3.588	76.49	18.83	4.906	72.02	15.91	5.743	68.38	12.35	22.91	22.06	21.27	-0.846	-1.644	57.28	14.03	619.5	891	0
05/24/2014 12:45	66257	15	144	2.907	70.19	29.89	3.714	66.55	26.88	4.42	69.08	19.88	22.94	22.31	21.58	-0.632	-1.357	56.22	13.77	603.9	891	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/24/2014 13:00	66258	15	144	2.971	78.06	23.94	3.835	74.74	19.29	4.632	69.38	12.12	23.83	22.6	21.72	-1.228	-2.107	54.69	14.17	1493	890	0
05/24/2014 13:15	66259	15	144	2.121	47.5	40.3	2.798	49.71	37.34	3.388	57.32	27.35	23.42	22.61	21.9	-0.806	-1.521	54.88	13.85	860	890	0
05/24/2014 13:30	66260	15	144	2.66	51.19	42.44	3.37	49.67	37.18	4.099	54.19	20.88	23.59	22.87	22.26	-0.721	-1.324	54.46	13.88	782	890	0
05/24/2014 13:45	66261	15	144	3.388	76.48	18.41	4.394	70.36	16.01	5.182	66.76	15.16	23.98	23.23	22.43	-0.744	-1.551	54.07	14.14	729.9	890	0
05/24/2014 14:00	66262	15	144	2.663	65.88	26.19	3.47	62.5	22.68	4.191	60.68	21.89	24.63	23.59	22.83	-1.038	-1.805	51.87	14.1	1157	889	0
05/24/2014 14:15	66263	15	144	3.863	69.85	18.03	5.045	67.21	17.35	5.907	64.55	13.59	24.94	23.88	22.95	-1.055	-1.986	50.79	14.06	1099	889	0
05/24/2014 14:30	66264	15	144	3.262	67.44	24.66	4.252	62.47	19.58	5.035	60.13	13.04	25.28	24.23	23.38	-1.046	-1.903	48.18	13.56	1027	889	0
05/24/2014 14:45	66265	15	144	3.885	75.35	21.93	5.009	71.35	18.96	5.998	71.31	15.07	25.44	24.42	23.63	-1.018	-1.811	46.66	13.21	992	889	0
05/24/2014 15:00	66266	15	144	4.923	80.2	17.39	6.645	76.99	14.06	7.619	74.01	11.18	25.6	24.48	23.55	-1.114	-2.047	47.35	13.58	960	889	0
05/24/2014 15:15	66267	15	144	5.144	92.6	14.93	6.998	87.5	11.87	8.32	83.7	8.49	25.19	24.11	23.11	-1.085	-2.084	50.41	14.18	897	889	0
05/24/2014 15:30	66268	15	144	5.436	87.4	15.47	7.272	84.6	12.39	8.4	79.3	9.95	24.87	23.81	22.88	-1.069	-1.992	51.14	14.11	833	888	0
05/24/2014 15:45	66269	15	144	4.97	89.1	16.77	6.603	84.9	13.14	7.784	82.8	9.21	25.01	24.03	23.2	-0.979	-1.809	49.62	13.76	759.3	888	0
05/24/2014 16:00	66270	15	144	5.062	81.4	13.57	6.685	79.37	11.44	8.16	78.78	9.75	25.19	24.33	23.45	-0.856	-1.736	46.99	13.09	691.5	888	0
05/24/2014 16:15	66271	15	144	5.256	90.7	13.38	7.112	84.9	10.45	8.89	81.6	8.08	25.3	24.45	23.55	-0.855	-1.752	47.99	13.52	639.8	887	0
05/24/2014 16:30	66272	15	144	5.201	79.4	14.97	6.97	74.92	11.16	8.36	72.62	8.96	25.23	24.48	23.68	-0.744	-1.55	46.72	13.04	581.1	887	0
05/24/2014 16:45	66273	15	144	5.725	90.3	13.7	7.909	87.1	9.74	9.72	84.3	7.599	25.31	24.62	23.82	-0.694	-1.494	47.39	13.34	511	887	0
05/24/2014 17:00	66274	15	144	5.702	89.8	12.28	8.08	86.2	10.05	10.48	82.7	7.101	25.03	24.42	23.57	-0.608	-1.463	49.95	13.89	445.8	887	0
05/24/2014 17:15	66275	15	144	6.238	96.3	13.55	8.53	92.4	9.84	10.31	89.6	8.38	24.64	24.16	23.44	-0.48	-1.202	51.39	13.97	381.4	887	0
05/24/2014 17:30	66276	15	144	6.619	99.9	11.65	8.94	94.9	8.13	11.3	91.1	5.448	24.09	23.69	22.98	-0.398	-1.111	53.62	14.11	314.7	887	0
05/24/2014 17:45	66277	15	144	6.018	102.1	12.78	8.48	98	9.22	10.99	95.1	7.067	23.56	23.21	22.53	-0.358	-1.031	56.46	14.42	246.9	887	0
05/24/2014 18:00	66278	15	144	5.239	102.7	13.42	7.461	98.4	9.16	9.77	94.5	6.595	23.39	23.14	22.58	-0.25	-0.81	57.04	14.42	181.3	887	0
05/24/2014 18:15	66279	15	144	5.969	97.9	11.51	8.25	94.4	8.01	11.03	91.4	4.532	22.97	22.84	22.34	-0.135	-0.626	58.22	14.34	119.2	887	0
05/24/2014 18:30	66280	15	144	5.468	106.1	12.04	7.779	101.1	7.736	10.48	97.6	4.871	22.29	22.34	22	0.046	-0.288	61.21	14.48	23.74	887	0
05/24/2014 18:45	66281	15	144	5.722	105.1	11.48	8.13	99.9	7.517	11.25	95.7	4.021	21.68	21.75	21.49	0.073	-0.188	64.04	14.6	8.73	887	0
05/24/2014 19:00	66282	15	144	4.827	107.5	13.22	7.038	102.2	8.4	9.72	98.4	5.772	21.32	21.43	21.2	0.112	-0.122	65.76	14.67	3.978	887	0
05/24/2014 19:15	66283	15	144	5.189	108.3	11.76	7.574	104.3	7.876	10.1	99.5	4.671	21.14	21.24	21	0.106	-0.135	67.2	14.83	1.847	887	0
05/24/2014 19:30	66284	15	144	4.698	102.2	11.42	6.823	98.8	7.405	9.64	95.9	4.217	20.92	21.02	20.81	0.097	-0.107	69.53	15.16	1.596	887	0
05/24/2014 19:45	66285	15	144	4.931	105	11.99	7.206	101	7.683	10	97.5	4.588	20.92	20.98	20.73	0.052	-0.191	71.01	15.49	1.643	887	0
05/24/2014 20:00	66286	15	144	4.777	110	12.54	6.814	105.9	7.859	9.2	101.6	5.235	20.93	21	20.72	0.064	-0.216	72	15.71	1.518	887	0
05/24/2014 20:15	66287	15	144	4.097	120.8	12.65	6.122	115.3	9.04	8.29	110.5	6.441	20.7	20.77	20.47	0.066	-0.23	74.44	16.01	1.456	887	0
05/24/2014 20:30	66288	15	144	4.101	129.8	12.26	6.03	124.5	7.916	8.16	120.5	4.76	20.61	20.64	20.33	0.031	-0.275	75.59	16.16	1.544	887	0
05/24/2014 20:45	66289	15	144	3.883	223.9	68.02	5.615	215.9	71.23	7.195	199.9	71.93	20.5	20.48	20.04	-0.012	-0.459	74.97	15.92	1.426	889	0
05/24/2014 21:00	66290	15	144	6.15	321.8	22.37	7.917	318.1	19.22	9.18	312	15.31	15.44	15.23	15.55	-0.214	0.104	82.4	12.44	1.534	890	0
05/24/2014 21:15	66291	15	144	4.409	349.7	21.9	6.294	344.8	17.95	8.34	336.3	13.1	15.36	15.11	14.74	-0.245	-0.62	90.4	13.81	1.506	890	0
05/24/2014 21:30	66292	15	144	3.247	9.32	16.91	4.783	6.016	13.21	6.613	357.9	11.25	15.62	15.37	14.96	-0.251	-0.658	92	14.33	1.303	890	0
05/24/2014 21:45	66293	15	144	2.65	26.07	13.48	4.088	20.38	7.949	5.727	5.2	12.34	15.92	15.67	15.9	-0.256	-0.023	90.7	14.42	1.163	890	0
05/24/2014 22:00	66294	15	144	2.29	33.79	13.28	3.523	29.59	6.786	5.173	9.82	7.191	16.33	16.09	16.54	-0.24	0.214	87.7	14.3	1.355	890	0
05/24/2014 22:15	66295	15	144	3.117	36.89	14.93	4.781	32.51	10.83	6.537	27.56	10.85	16.49	16.29	15.92	-0.2	-0.571	84.9	13.96	1.303	890	0
05/24/2014 22:30	66296	15	144	3.04	50.08	12.79	4.46	47.94	7.479	5.738	42.16	5.502	16.1	15.87	15.54	-0.23	-0.564	86.1	13.8	1.301	890	0
05/24/2014 22:45	66297	15	144	2.874	56.37	13.52	4.271	52.43	9.38	5.92	46.09	7.238	16.46	16.26	16.09	-0.197	-0.366	84.3	13.82	1.048	890	0
05/24/2014 23:00	66298	15	144	2.436	50.91	13.47	3.645	49.51	8.86	5.273	49.58	4.7	16.93	16.79	16.71	-0.14	-0.222	80.8	13.62	1.13	889	0
05/24/2014 23:15	66299	15	144	1.693	40.99	13.23	2.63	39.5	8.99	4.309	46.02	5.59	17.2	17.2	17.05	-0.002	-0.155	78.12	13.37	1.038	889	0
05/24/2014 23:30	66300	15	144	1.832	63.08	12.52	2.969	63.44	8.66	5.356	62.82	6.104	17.17	17.42	18.42	0.246	1.25	77.8	13.28	1.075	889	0
05/24/2014 23:45	66301	15	144	1.75	64.74	11.85	3.269	65.26	6.781	5.791	75.61	3.701	16.99	17.52	18.99	0.526	1.996	80.2	13.56	1.143	889	0
05/25/2014 00:00	66302	15	145	1.907	78.79	9	3.484	74.62	4.512	6.056	72.62	3.022	17.27	17.72	18.68	0.449	1.402	81.8	14.15	1.114	889	0
05/25/2014 00:15	66303	15	145	1.551	82	12.47	3.022	76.32	6.179	5.199	68.03	3.86	17.11	17.68	18.59	0.577	1.488	85	14.58	0.929	889	0
05/25/2014 00:30	66304	15	145	1.943	74.82	10.29	3.271	71.52	6.47	5.725	71.42	4.275	17.05	17.33	18.46	0.278	1.41	84.9	14.5	1.049	889	0
05/25/2014 00:45	66305	15	145	2.209	93.9	11.64	3.55	89.6	8.2	6.372	88.7	3.983	16.98	17.25	18.34	0.271	1.364	84.2	14.3	1.041	889	0
05/25/2014 01:00	66306	15	145	2.693	100.8	10.69	4.023	96.3	7.149	7.133	93.2	2.67	16.98	17.14	17.49	0.16	0.514	84.8	14.42	1.223	889	0
05/25/2014 01:15	66307	15	145	2.737	108	10.82	4.198	103.7	6.731	7.308	97.7	2.409	16.65	16.81	17.2	0.157	0.548	85.3	14.18	1.202	888	0
05/25/2014 01:30	66308	15	145	2.423	108.3	11.36	3.834	103.6	7.254	7.501	99.9	1.831	16.36	16.52	17.29	0.158	0.933	84.6	13.77	1.174	889	0
05/25/2014 01:45	66309	15	145	2.261	102.7	11.76	3.554	99	8.06	7.291	98.1	2.236	16.27	16.43	17.21	0.161	0.95	83.8	13.54	1.156	889	0
05/25/2014 02:00	66310	15	145	2.016	100.8	11.18	3.173	97.1	7.324	6.875	101.1	2.612	16.18	16.35	17.49	0.171	1.316	83.3	13.36	1.167	889	0
05/25/2014 02:15	66311	15	145	1.928	105.2	10.95	3.227	100.4	6.571	6.817	107.3	3.268	15.87	16.12	17.7	0.245	1.824	83.1	13.01	1.011	889	0
05/25/2014 02:30	66312	15	145	2.165	101.4	11.47	3.643	99	6.39	7.407	103.1	3.81	15.81	16.07	17.34	0.261	1.538	83.7	13.07	1.242	889	0
05/25/2014 02:45	66313	15	145	1.704	88	40.24	2.766	92.4	39.25	6.482	97.6	13.69	15.89	16.14	17.62	0.249	1.728	83.8	13.17	1.212	889	0
05/25/2014 03:00	66314	15	145	1.816	298.8	21.42	2.257	290.2	16.58	2.538	282.2	43.53	15.88	16.06	16.09	0.174	0.202	85.8	13.52	0.726	889	0
05/25/2014 03:15	66315	15	145	1.614	311.5	13.45	2.042	303.3	10.91	2.241	294.9	5.723	15.58	15.74	16.02	0.162	0.439	90.5	14.05	0.709	889	0
05/25/2014 03:30	66316	15	145	1.097	330.2	18.43	2.066	317.7	10.35	4.082	314.7	6.761	15.02	15.18	15.55	0.16	0.53	94.7	14.18	0.872	890	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/25/2014 03:45	66317	15	145	1.109	341.4	17.97	2.218	331.5	9.87	4.558	337.5	6.562	14.65	14.85	15.84	0.195	1.19	96	14.03	0.842	890	0
05/25/2014 04:00	66318	15	145	0.632	46.6	32.77	1.345	16.57	18.73	3.659	354.8	8.66	14.37	14.68	15.7	0.309	1.328	96.6	13.86	0.876	890	0
05/25/2014 04:15	66319	15	145	0.349	18.11	30.02	1.298	359.6	8.61	2.465	5.643	10.18	14.18	14.72	15.7	0.546	1.519	97.3	13.77	0.679	890	0
05/25/2014 04:30	66320	15	145	0.852	31.49	43.35	1.962	16.21	16.57	1.897	10.96	18.09	13.88	14.97	15.78	1.094	1.899	97.5	13.5	0.6	890	0
05/25/2014 04:45	66321	15	145	0.494	0.8	42.23	1.537	1.443	9.95	1.594	351.4	9.28	14.04	15.1	15.82	1.056	1.783	98.1	13.76	0.767	890	0
05/25/2014 05:00	66322	15	145	0.829	44.6	14.88	1.623	17.3	4.55	1.833	340.8	9.58	14.91	15.58	16.19	0.671	1.281	97.9	14.59	1.545	890	0
05/25/2014 05:15	66323	15	145	1.186	39.83	13.21	2.158	28.52	10.13	2.509	348.6	15.59	15.41	15.45	16.37	0.04	0.967	96.4	14.85	4.882	890	0
05/25/2014 05:30	66324	15	145	1.17	53.19	12.36	1.956	47.45	7.238	2.573	15.15	9.84	15.73	15.61	16.4	-0.116	0.673	94.5	14.86	13.91	890	0
05/25/2014 05:45	66325	15	145	1.441	54	12.43	2.171	50.36	7.475	2.684	30.56	9.76	15.89	15.73	16.4	-0.168	0.501	92.8	14.75	24.49	890	0
05/25/2014 06:00	66326	15	145	1.645	54.54	11.77	2.35	49.25	7.331	3.17	45.46	3.352	16.15	15.96	16.16	-0.196	0.008	91.3	14.75	39.02	890	0
05/25/2014 06:15	66327	15	145	1.577	49.12	16.33	2.333	46.39	11.89	3.396	48.33	6.381	16.4	16.2	16.07	-0.207	-0.334	89.2	14.64	55.24	890	0
05/25/2014 06:30	66328	15	145	1.566	43.47	14.17	2.189	43.82	8.46	2.706	46.22	6.448	16.75	16.51	16.08	-0.236	-0.673	86.6	14.51	98.9	891	0
05/25/2014 06:45	66329	15	145	1.98	50.36	15.59	2.718	46.56	10.19	3.175	47.51	7.958	17.16	16.82	16.3	-0.337	-0.853	84.8	14.59	166.1	891	0
05/25/2014 07:00	66330	15	145	2.734	62.96	11.8	3.586	58.67	8.01	3.997	55.55	6.743	17.46	17.07	16.58	-0.386	-0.885	83.3	14.62	236.8	891	0
05/25/2014 07:15	66331	15	145	2.896	81.1	16.92	3.866	75.75	15.13	4.193	74.44	11.71	18.19	17.67	17.15	-0.516	-1.034	81.3	14.94	340.8	891	0
05/25/2014 07:30	66332	15	145	3.254	89.2	14.1	4.331	85.2	11.25	4.949	82.5	7.476	18.41	17.97	17.39	-0.439	-1.027	80.7	15.05	245.8	891	0
05/25/2014 07:45	66333	15	145	3.755	92.4	16.81	5.038	88.7	13.31	6.046	88.6	9.36	19.13	18.41	17.67	-0.727	-1.467	79.2	15.45	534.3	891	0
05/25/2014 08:00	66334	15	145	3.577	101.9	14.07	4.747	96.9	10.62	5.618	93.1	7.201	19.64	18.9	18.13	-0.748	-1.515	76.69	15.45	585.8	891	0
05/25/2014 08:15	66335	15	145	2.828	107	20.17	3.598	102.9	14.87	4.101	99.1	11.16	20.31	19.4	18.62	-0.913	-1.689	73.42	15.42	751.9	891	0
05/25/2014 08:30	66336	15	145	2.771	108	14.19	3.662	105.9	10.37	4.239	101.4	10.35	20.4	19.75	19.06	-0.647	-1.338	72.67	15.34	370.1	891	0
05/25/2014 08:45	66337	15	145	4.134	113.3	17.74	5.683	109.8	13.87	6.725	104.6	9.79	20.31	19.63	18.94	-0.671	-1.37	72.45	15.2	382.2	891	0
05/25/2014 09:00	66338	15	145	5.45	111.4	14.14	7.351	107	9.99	8.51	103.2	5.963	20.73	19.49	18.46	-1.243	-2.269	71.55	15.42	957	891	0
05/25/2014 09:15	66339	15	145	4.9	108.2	17.47	6.463	104.3	13.81	7.693	104	10.21	21.59	20.33	19.23	-1.253	-2.356	66.24	15.03	983	891	0
05/25/2014 09:30	66340	15	145	4.852	105.6	15.13	6.598	100.4	11.49	7.725	97.6	8.11	21.96	20.57	19.5	-1.394	-2.461	64.03	14.86	997	891	0
05/25/2014 09:45	66341	15	145	4.907	113.9	14.4	6.589	107.3	10.77	7.576	103.2	8.92	21.79	20.29	19.29	-1.497	-2.498	63.96	14.69	1086	891	0
05/25/2014 10:00	66342	15	145	4.706	99.8	16.52	6.075	98.5	12.75	7.44	96.9	8.39	22.36	20.95	19.82	-1.406	-2.539	61.19	14.53	1108	891	0
05/25/2014 10:15	66343	15	145	4.57	118.6	17.77	6.002	115.1	13.76	6.86	111.3	12.14	22.96	21.45	20.43	-1.517	-2.533	56.78	13.95	1133	891	0
05/25/2014 10:30	66344	15	145	4.465	118.2	15.69	5.856	112.8	12.93	6.823	108.2	8.95	23.18	21.62	20.74	-1.56	-2.446	54.88	13.63	1173	891	0
05/25/2014 10:45	66345	15	145	4.172	122.5	20.03	5.471	117.2	16.2	6.216	115	13.15	23.75	22.14	21.22	-1.606	-2.529	51.76	13.25	1142	890	0
05/25/2014 11:00	66346	15	145	4.414	115.4	20.28	6.079	112.6	15.02	7.315	110.3	11.98	23.83	22.43	21.49	-1.407	-2.345	53.37	13.79	913	890	0
05/25/2014 11:15	66347	15	145	4.078	134.8	21.76	5.509	127.9	16.57	6.34	124.1	13.27	25.12	23.28	22.13	-1.835	-2.981	46.22	12.76	1317	890	0
05/25/2014 11:30	66348	15	145	4.242	125	19.82	5.914	119.8	15.33	6.962	114	12.69	23.66	22.75	22.01	-0.905	-1.651	49.43	12.44	336.3	890	0
05/25/2014 11:45	66349	15	145	4.117	134.4	19.97	5.723	129.7	16.67	7.02	124.3	12.66	23.37	22.63	21.9	-0.739	-1.468	51.64	12.87	348.2	890	0
05/25/2014 12:00	66350	15	145	4.278	129.9	17	6.124	126.1	11.36	7.145	122.7	8.7	23.43	22.68	21.99	-0.748	-1.442	49.93	12.41	408.2	890	0
05/25/2014 12:15	66351	15	145	2.972	133.5	17.61	4.047	129.7	14.54	5.109	122.4	14.69	23.08	22.53	21.91	-0.547	-1.17	50.43	12.24	244.7	890	0
05/25/2014 12:30	66352	15	145	3.861	120	14.85	5.268	117.7	11.39	6.712	115	7.632	23.38	22.48	21.73	-0.898	-1.652	53.53	13.43	671	890	0
05/25/2014 12:45	66353	15	145	4.64	110.7	13.29	6.251	106.4	8.52	7.788	103.6	5.039	23.67	22.48	21.58	-1.188	-2.094	51.28	13.04	791.9	890	0
05/25/2014 13:00	66354	15	145	2.023	107.7	19.09	2.549	103.3	13.7	3.291	94.1	9.22	22.85	22.39	21.77	-0.463	-1.086	51.01	12.21	193.2	890	0
05/25/2014 13:15	66355	15	145	1.886	78.14	11.02	2.46	74.89	11.61	3.004	72.19	9.27	22.19	22.26	21.95	0.067	-0.242	59.11	13.82	399.3	890	0.254
05/25/2014 13:30	66356	15	145	3.659	68.85	10.48	5.013	64.91	6.769	6.631	63.27	4.536	22.33	22	21.79	-0.334	-0.545	58.06	13.7	462.5	890	0
05/25/2014 13:45	66357	15	145	3.94	81.3	10.69	5.307	79.5	8.03	7.504	77.32	6.108	22.59	22.19	21.99	-0.404	-0.608	56.54	13.53	378.3	889	0
05/25/2014 14:00	66358	15	145	4.218	84.2	12.18	5.869	81.5	8.91	7.305	79.88	5.668	23.75	23.34	22.81	-0.408	-0.941	50.94	12.98	407.7	889	0
05/25/2014 14:15	66359	15	145	4.445	69.94	14.3	6.25	66.84	11.51	7.92	67.47	10.32	24.07	23.69	23.15	-0.382	-0.928	47.23	12.15	289.5	889	0
05/25/2014 14:30	66360	15	145	4.023	83.5	16.58	5.566	80.6	13.92	7.14	79.92	12.96	24.33	24.04	23.55	-0.29	-0.783	44.88	11.61	295.6	888	0
05/25/2014 14:45	66361	15	145	3.822	81.3	22.42	5.303	77.21	18.34	6.699	70.74	14.93	24.77	24.46	23.91	-0.309	-0.862	41.12	10.69	264.5	888	0
05/25/2014 15:00	66362	15	145	3.156	92.6	19.93	4.16	89.4	15.57	5.202	89.7	15.98	25.34	24.8	24.2	-0.537	-1.134	39.67	10.65	491.1	888	0
05/25/2014 15:15	66363	15	145	2.403	99.8	39.57	3.163	94.9	36.63	3.623	89.8	28.77	25.87	25.34	24.74	-0.524	-1.126	37.1	10.12	643.6	888	0
05/25/2014 15:30	66364	15	145	3.002	109.6	64.16	3.947	113.6	61.46	4.6	112.5	59.58	26.29	25.76	25.15	-0.534	-1.142	35.79	9.95	432	888	0
05/25/2014 15:45	66365	15	145	3.058	148.3	39.87	4.162	145.9	36.47	4.93	126.8	36.99	25.93	25.68	25.24	-0.247	-0.689	34.39	9.03	262	887	0
05/25/2014 16:00	66366	15	145	2.96	150.9	24.9	4.269	146.4	23.96	5.645	140.3	22.3	26.37	26.13	25.61	-0.235	-0.753	32.01	8.35	266.2	888	0
05/25/2014 16:15	66367	15	145	4.202	147.9	23.29	5.806	146	21.78	7.162	145.1	20.3	26.24	26.06	25.63	-0.18	-0.615	32.27	8.38	238.1	887	0
05/25/2014 16:30	66368	15	145	4.527	147.6	15.47	6.434	142.7	12.36	8.13	137.2	9.94	25.79	25.75	25.31	-0.046	-0.484	34.84	9.11	148.1	887	0
05/25/2014 16:45	66369	15	145	4.96	127.9	16.56	7.008	123.4	12.08	8.69	119.7	9.84	26.48	25.9	25.23	-0.581	-1.255	35.05	9.82	479.7	887	0
05/25/2014 17:00	66370	15	145	4.075	123.8	14.45	5.747	119.8	10.38	7.209	116.9	9.48	26.14	25.87	25.34	-0.271	-0.798	34.84	9.43	269.8	887	0
05/25/2014 17:15	66371	15	145	6.671	135.9	15.67	9.44	130.5	11.58	11.67	126.5	8.46	26.04	25.57	24.81	-0.474	-1.229	37.64	10.46	397.4	887	0
05/25/2014 17:30	66372	15	145	6.349	136.4	12.62	9.01	131.3	8.22	11.57	128.5	5.084	24.71	24.63	24.16	-0.073	-0.545	41.55	10.79	107.6	887	0
05/25/2014 17:45	66373	15	145	6.112	144	12.1	8.94	139.3	7.869	11.04	136.3	7.088	25.08	24.86	24.35	-0.224	-0.736	39.81	10.48	230.3	887	0
05/25/2014 18:00	66374	15	145	5.889	153.4	12.96	8.48	148.6	9.78	10.96	144.4	7.597	24.83	24.71	24.24	-0.117	-0.59	38.98	9.95	173	887	0
05/25/2014 18:15	66375	15	145	5.885	150.7	12.07	8.68	145.6	8.98	11.63	142.2	6.865	24.14	24.12	23.72	-0.019	-0.419	41.22	10.16	115	888	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/25/2014 18:30	66376	15	145	5.993	146.4	11.25	8.85	141.4	7.723	11.78	138.7	4.517	23.57	23.65	23.32	0.072	-0.251	42.63	10.15	63	888	0
05/25/2014 18:45	66377	15	145	5.605	149.2	12.94	8.11	143.8	8.55	11.19	139.6	6.119	22.82	22.96	22.69	0.133	-0.13	48.77	11.49	18.9	888	0
05/25/2014 19:00	66378	15	145	5.37	146.5	13.67	7.677	142	9.54	10.48	138.8	6.915	22.21	22.37	22.15	0.154	-0.063	52.49	12.05	5.468	889	0
05/25/2014 19:15	66379	15	145	4.118	142.6	11.8	5.984	138.7	8.18	8.32	136.2	5.924	21.84	22.06	21.91	0.215	0.068	55.33	12.5	1.914	889	0
05/25/2014 19:30	66380	15	145	2.913	136.8	11.68	4.433	132.9	8.18	6.365	132.7	6.873	21.35	21.67	21.62	0.319	0.27	58.16	12.81	1.167	889	0
05/25/2014 19:45	66381	15	145	3.532	132.2	11.17	5.374	126.7	7.023	7.228	123.6	5.162	21.1	21.4	21.29	0.298	0.197	60.63	13.21	1.363	890	0
05/25/2014 20:00	66382	15	145	3.868	141.4	11.95	5.818	133.8	7.978	8.18	129.9	5.354	20.82	21.09	21.03	0.268	0.206	63.35	13.62	1.386	890	0
05/25/2014 20:15	66383	15	145	4.18	142	10.77	6.288	136	6.41	8.8	131.6	3.558	20.61	20.86	20.81	0.249	0.198	65.09	13.84	1.458	890	0
05/25/2014 20:30	66384	15	145	3.766	141	11.84	5.765	135.4	7.484	8.46	129.6	4.385	20.28	20.52	20.45	0.239	0.165	67.53	14.1	1.47	890	0
05/25/2014 20:45	66385	15	145	3.644	134.1	12	5.506	129	8.02	8.16	125.8	4.937	20	20.22	20.13	0.227	0.134	69.79	14.33	1.286	890	0
05/25/2014 21:00	66386	15	145	4.12	137.9	11.69	6.176	131.6	6.726	8.94	128.1	4.093	19.66	19.89	19.81	0.225	0.145	72.05	14.5	1.609	890	0
05/25/2014 21:15	66387	15	145	4.171	138.8	11.93	6.228	133	7.451	8.76	129.7	4.59	19.39	19.59	19.47	0.202	0.08	73.43	14.53	1.575	890	0
05/25/2014 21:30	66388	15	145	4.227	144.8	12.58	6.276	139.5	7.779	8.73	136.1	5.378	19.17	19.35	19.19	0.18	0.021	74.64	14.57	1.593	890	0
05/25/2014 21:45	66389	15	145	4.304	150.1	12	6.478	143.6	7.301	8.84	140.1	5.637	19	19.19	19.01	0.19	0.01	75.51	14.59	1.554	890	0
05/25/2014 22:00	66390	15	145	4.341	153.6	11.31	6.358	147.7	7.77	8.36	142.5	5.414	18.85	19.03	18.8	0.173	-0.05	76.78	14.71	1.531	890	0
05/25/2014 22:15	66391	15	145	4.379	151.5	11.35	6.633	146.3	7.535	9.22	141.2	4.63	18.65	18.81	18.61	0.164	-0.036	78.35	14.82	1.664	890	0
05/25/2014 22:30	66392	15	145	3.96	154.6	12.21	5.891	147.3	8.51	8.52	143.2	5.964	18.42	18.57	18.37	0.151	-0.042	79.56	14.83	1.471	890	0
05/25/2014 22:45	66393	15	145	2.863	172.2	17.44	4.116	161.8	13.95	6.22	152.9	11.7	18.19	18.34	18.13	0.152	-0.059	81.4	14.96	1.265	891	0
05/25/2014 23:00	66394	15	145	1.09	211.7	30.33	1.549	203.4	23.52	2.536	183.5	18.15	17.99	18.16	17.95	0.176	-0.037	82.6	15.01	0.748	891	0
05/25/2014 23:15	66395	15	145	1.625	152.1	17.22	2.411	151.2	14.27	3.646	147.7	12.26	18.01	18.17	17.92	0.162	-0.091	83.4	15.16	1.056	891	0
05/25/2014 23:30	66396	15	145	1.855	157.6	19.09	2.664	153.5	15.83	3.744	151.1	14.59	18.25	18.2	17.84	-0.047	-0.408	82.2	15.17	1.016	891	0
05/25/2014 23:45	66397	15	145	2.468	159.1	14.43	3.503	153.8	10.46	4.532	154.2	10.81	18.24	18.16	17.76	-0.086	-0.482	81.9	15.11	0.964	891	0
05/26/2014 00:00	66398	15	146	2.94	162.9	13.6	4.229	156.9	9.92	5.189	155.6	7.834	18.14	18.08	17.69	-0.055	-0.449	82.2	15.06	1.121	891	0
05/26/2014 00:15	66399	15	146	2.946	155.1	12.21	4.505	149.6	7.311	5.641	146.7	5.19	17.88	17.96	17.62	0.083	-0.258	83.4	15.04	1.161	891	0
05/26/2014 00:30	66400	15	146	2.664	156	11.7	4.069	148.7	8.37	5.934	144.9	4.919	17.47	17.62	17.42	0.153	-0.056	85.9	15.11	1.213	890	0
05/26/2014 00:45	66401	15	146	2.952	149	11.52	4.51	144.3	7.314	6.715	141.6	4.1	17.21	17.39	17.26	0.175	0.047	87.1	15.07	1.145	890	0
05/26/2014 01:00	66402	15	146	2.286	162	12.35	3.397	152.8	9	5.611	142.2	5.005	17.03	17.14	17.04	0.115	0.007	88.1	15.06	1.248	890	0
05/26/2014 01:15	66403	15	146	2.816	153.6	11.91	4.188	148.3	7.998	6.097	145	5.954	17.36	17.33	17.06	-0.036	-0.3	87.7	15.31	1.178	890	0
05/26/2014 01:30	66404	15	146	2.704	171.3	13.59	3.694	164.5	11.93	5.355	157.1	8.54	17.62	17.54	17.2	-0.079	-0.419	86.6	15.37	1.096	890	0
05/26/2014 01:45	66405	15	146	2.964	168.5	10.93	4.154	162.9	8.73	5.477	160.4	7.237	17.8	17.71	17.34	-0.086	-0.464	86.2	15.48	1.037	890	0
05/26/2014 02:00	66406	15	146	3.238	173.3	9.93	4.542	167	7.12	5.711	162.4	4.913	17.89	17.81	17.41	-0.081	-0.482	86.2	15.56	1.076	890	0
05/26/2014 02:15	66407	15	146	2.729	176.6	10.3	3.776	170.5	8.42	5.045	164.2	6.365	17.88	17.8	17.4	-0.085	-0.479	86.6	15.63	1.136	890	0
05/26/2014 02:30	66408	15	146	2.53	197.7	15.67	3.492	191.5	12.92	4.373	187.1	12.61	17.91	17.8	17.39	-0.112	-0.522	86.6	15.65	0.937	890	0
05/26/2014 02:45	66409	15	146	2.033	226.6	11.59	2.683	222.1	10.39	3.519	215.8	9.63	17.86	17.73	17.28	-0.128	-0.582	87.1	15.7	0.83	891	0
05/26/2014 03:00	66410	15	146	2.003	215.6	12.09	2.841	212.2	9.04	3.657	210.8	7.253	17.79	17.66	17.23	-0.138	-0.564	87.6	15.73	0.756	891	0
05/26/2014 03:15	66411	15	146	1.839	208.2	14.57	2.403	203.3	10.96	3.135	204	7.474	17.78	17.65	17.22	-0.134	-0.567	87.8	15.74	0.759	891	0
05/26/2014 03:30	66412	15	146	1.108	209.3	19.29	1.351	206.2	14.59	1.685	202.5	14.17	17.71	17.57	17.14	-0.14	-0.563	87.9	15.7	0.589	891	0
05/26/2014 03:45	66413	15	146	1.018	223	11.06	1.372	216.8	7.277	1.658	201.4	7.918	17.65	17.51	17.09	-0.146	-0.56	88.2	15.7	0.588	891	0
05/26/2014 04:00	66414	15	146	0.869	155.9	47.62	1.143	153.6	41.58	1.634	155.2	32.37	17.64	17.55	17.17	-0.094	-0.471	88.3	15.71	0.614	891	0
05/26/2014 04:15	66415	15	146	0.99	140.2	11.92	1.611	136.5	6.798	2.34	138.5	5.832	17.36	17.53	17.22	0.171	-0.138	89.3	15.6	0.598	891	0
05/26/2014 04:30	66416	15	146	1.263	145.6	13.37	2.192	139.4	7.781	3.385	135.1	4.666	17.25	17.41	17.2	0.159	-0.052	90.3	15.66	0.807	891	0
05/26/2014 04:45	66417	15	146	1.399	147.1	11.43	2.306	143.8	7.534	3.597	144.1	5.767	17.23	17.37	17.16	0.134	-0.078	90.1	15.61	1.194	891	0
05/26/2014 05:00	66418	15	146	0.619	129.2	27.44	1.299	139.5	12.1	2.338	142.1	7.472	17.02	17.28	17.1	0.259	0.073	91	15.55	3.605	891	0
05/26/2014 05:15	66419	15	146	0.707	31.37	34.21	0.913	67.88	37.39	1.511	121.4	9.51	16.76	17.17	17.05	0.414	0.295	92.2	15.51	18.56	891	0
05/26/2014 05:30	66420	15	146	1.199	80.1	28.32	1.872	80.2	22.81	2.17	108.9	7.148	16.43	17.12	17.02	0.687	0.588	93.7	15.42	54.5	891	0
05/26/2014 05:45	66421	15	146	1.561	110.7	10.49	2.571	103.3	7.281	3.697	110.1	5.211	16.82	16.82	16.98	0.006	0.164	93.5	15.78	126.2	891	0
05/26/2014 06:00	66422	15	146	2.149	115.9	12.84	3.053	112.2	7.645	4.453	111.4	4.357	17.37	17.1	16.78	-0.262	-0.588	90.4	15.8	175.1	891	0
05/26/2014 06:15	66423	15	146	2.724	119.7	12.55	3.806	113.7	6.404	4.447	107.9	4.582	17.76	17.36	16.86	-0.397	-0.899	87.6	15.68	232	891	0
05/26/2014 06:30	66424	15	146	2.893	119.7	13.67	3.974	114.8	8.53	4.619	111.6	5.828	18.22	17.7	17.14	-0.519	-1.078	84.5	15.57	293.7	891	0
05/26/2014 06:45	66425	15	146	3.249	116.9	12.72	4.388	111.2	7.17	4.975	107.6	4.641	18.64	18.03	17.45	-0.609	-1.195	81.5	15.43	358.4	891	0
05/26/2014 07:00	66426	15	146	3.539	114.3	14.07	4.782	109.5	9.09	5.67	106.6	5.845	19.27	18.56	17.85	-0.708	-1.417	78.19	15.39	427.7	891	0
05/26/2014 07:15	66427	15	146	2.994	115.5	17.42	4.129	110.9	12.56	4.878	106.9	9.31	19.54	18.9	18.24	-0.642	-1.306	74.55	14.91	371.4	891	0
05/26/2014 07:30	66428	15	146	2.275	118.5	22.04	2.951	114	18.33	3.441	111.4	13.16	19.64	18.95	18.17	-0.694	-1.47	74.33	14.97	538.8	892	0
05/26/2014 07:45	66429	15	146	1.804	155	35.79	2.284	151.6	28.7	2.707	151.1	20.45	19.76	19.23	18.62	-0.532	-1.145	70.88	14.34	429.1	892	0
05/26/2014 08:00	66430	15	146	2.053	151.7	30.81	2.5	150.9	24.64	3.051	151.1	19.62	20.38	19.65	18.97	-0.727	-1.408	67.71	14.23	648.7	892	0
05/26/2014 08:15	66431	15	146	2.348	120.1	20.78	3.065	115.6	15.8	3.674	115	10.98	20.63	19.93	19.3	-0.694	-1.326	65.68	13.99	393.9	891	0
05/26/2014 08:30	66432	15	146	2.376	168	24.04	2.876	159.9	23.56	3.403	155.3	18.56	21.18	20.31	19.53	-0.872	-1.646	62.76	13.81	644.1	892	0
05/26/2014 08:45	66433	15	146	2.108	163.6	21.27	2.559	159.9	17.21	2.983	156.8	15.41	21.37	20.52	19.79	-0.852	-1.582	61.35	13.65	664.5	891	0
05/26/2014 09:00	66434	15	146	1.75	198.7	44.02	2.154	189	42.81	2.337	196.1	31.31	21.56	20.97	20.39	-0.596	-1.173	58.7	13.15	553.5	891	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/26/2014 09:15	66435	15	146	1.415	252.1	49.62	1.551	252.9	49.19	1.719	248.9	35.44	21.93	21.35	20.74	-0.578	-1.189	57.25	13.11	771.8	892	0
05/26/2014 09:30	66436	15	146	1.722	237.7	42.33	2.057	237.1	35.4	2.292	235.2	27.01	22.41	21.61	20.91	-0.808	-1.499	54.56	12.82	991	891	0
05/26/2014 09:45	66437	15	146	1.509	223.4	85.2	1.717	232.5	74.8	1.897	235.8	44.31	22.84	22.25	21.59	-0.587	-1.249	54.1	13.09	964	891	0
05/26/2014 10:00	66438	15	146	1.481	277.2	44.69	1.743	271.9	37.12	1.905	268.1	30.85	23.04	22.49	21.89	-0.553	-1.151	51.82	12.61	673.9	891	0
05/26/2014 10:15	66439	15	146	1.59	210	67.18	1.816	203.6	56.71	2.168	215.1	45.45	23.93	23.13	22.42	-0.802	-1.507	45.66	11.49	1165	891	0
05/26/2014 10:30	66440	15	146	1.949	268.6	34.44	2.514	264.2	26.86	2.988	257.8	25.97	24.65	23.81	23.18	-0.836	-1.469	36.46	8.75	1155	891	0
05/26/2014 10:45	66441	15	146	2.647	283.8	38.18	3.143	276.2	29.63	3.618	277	19.62	25.03	24.21	23.34	-0.816	-1.683	30.35	6.428	1175	891	0
05/26/2014 11:00	66442	15	146	3.717	290.5	18.64	4.423	285.2	14.79	5.183	279	15.8	25.53	24.29	23.43	-1.241	-2.099	31.77	7.539	1207	891	0
05/26/2014 11:15	66443	15	146	3.478	275.6	24.95	4.293	274.9	22.88	4.986	271.9	17.34	25.97	24.72	23.84	-1.249	-2.131	31.29	7.688	1219	891	0
05/26/2014 11:30	66444	15	146	4.538	271	14.98	6.506	267.2	13.04	7.476	262.1	8.94	26.3	24.65	23.71	-1.641	-2.585	29.78	7.252	1233	891	0
05/26/2014 11:45	66445	15	146	3.507	258.3	18.8	4.533	255.3	15.53	5.441	255.1	12.42	25.94	24.59	23.73	-1.355	-2.211	30.95	7.507	995	890	0
05/26/2014 12:00	66446	15	146	2.84	281.2	29.77	3.804	280.3	23.7	4.254	280.6	17.18	25.97	25.06	24.28	-0.907	-1.682	31.31	7.683	801	890	0
05/26/2014 12:15	66447	15	146	3.271	279.8	34.7	3.95	276.2	28.88	4.407	269.3	23.52	26.33	25.34	24.57	-0.995	-1.763	29.82	7.305	833	890	0
05/26/2014 12:30	66448	15	146	3.389	274.4	29.1	4.217	267.3	24.93	5.144	266.3	16.99	26.65	25.52	24.6	-1.132	-2.051	30.54	7.925	1159	890	0
05/26/2014 12:45	66449	15	146	2.587	245.8	37.6	3.223	239.7	34.09	4.15	238.4	27.46	26.85	25.86	24.91	-0.992	-1.939	30.06	7.865	1211	890	0
05/26/2014 13:00	66450	15	146	2.781	247.3	35.77	3.432	239	40.93	3.915	243.5	37.58	26.88	26.06	25.46	-0.822	-1.416	29.17	7.446	762.4	889	0
05/26/2014 13:15	66451	15	146	3.3	250.8	25.82	4.42	246.1	21.34	5.061	241.6	18.24	27.34	26.44	25.54	-0.902	-1.8	26.65	6.53	595.6	889	0
05/26/2014 13:30	66452	15	146	3.83	296.1	23.58	4.669	294.2	21.8	5.45	290.4	18.25	27.55	26.58	25.72	-0.974	-1.832	27.3	7.057	673.3	889	0
05/26/2014 13:45	66453	15	146	4.869	311.5	16.48	5.844	307.1	12.18	5.446	302.7	10.06	27.74	26.52	25.68	-1.211	-2.056	28.14	7.656	1013	889	0
05/26/2014 14:00	66454	15	146	4.63	315.6	20.81	5.61	311.8	17.23	6.14	307.3	13.18	27.86	26.47	25.45	-1.397	-2.419	28.58	7.999	1142	889	0
05/26/2014 14:15	66455	15	146	5.256	324.6	15.64	6.743	319.3	12.05	7.429	312.8	9.44	27.59	26.3	25.33	-1.291	-2.254	29.85	8.4	826	889	0
05/26/2014 14:30	66456	15	146	5.326	323.5	14.07	6.8	318.5	11.24	7.718	311.4	9.75	26.65	25.77	24.95	-0.88	-1.699	31.4	8.34	501.1	889	0
05/26/2014 14:45	66457	15	146	4.971	289.7	16.23	6.325	286.3	14.29	7.565	283.2	10.73	26.4	25.76	24.96	-0.644	-1.44	29.13	7.017	299	890	0
05/26/2014 15:00	66458	15	146	3.701	288.4	15.92	4.892	283.7	13.52	5.862	281.1	11.37	26.45	25.84	25.09	-0.605	-1.358	28.09	6.529	233.5	889	0
05/26/2014 15:15	66459	15	146	4.674	302.5	11.78	4.972	298.8	8.25	5.076	295	6.623	26.05	25.5	24.81	-0.554	-1.244	29.03	6.671	268.1	889	0
05/26/2014 15:30	66460	15	146	4.647	305.4	11.3	4.996	301.2	7.907	5.047	295.5	5.718	26.03	25.42	24.73	-0.609	-1.299	29.76	7.011	303.5	889	0
05/26/2014 15:45	66461	15	146	4.475	293.3	14.92	5.386	290	10.48	6.502	284.8	7.2	26.06	25.44	24.74	-0.619	-1.326	29.98	7.153	340.8	889	0
05/26/2014 16:00	66462	15	146	4.917	292.2	13.93	6.134	288.1	9.7	7.156	285	7.382	26.28	25.69	25	-0.594	-1.285	29.02	6.864	371.8	889	0
05/26/2014 16:15	66463	15	146	4.316	301.5	16.76	4.91	296	13.19	5.334	290.1	10.33	26.98	26.11	25.31	-0.878	-1.678	28.3	7.101	727	889	0
05/26/2014 16:30	66464	15	146	3.818	293.5	21.39	4.94	291.4	18.66	5.866	289	17.34	27.28	26.46	25.52	-0.827	-1.761	27.18	6.761	617.3	889	0
05/26/2014 16:45	66465	15	146	3.546	297.2	22.41	4.399	291.6	19.61	5.142	289.6	15.49	26.99	26.33	25.61	-0.658	-1.383	26.95	6.392	527.1	889	0
05/26/2014 17:00	66466	15	146	3.962	306.7	19.04	4.605	302.6	15.48	4.991	298.4	10.98	26.97	26.26	25.63	-0.703	-1.335	26.27	6.002	460.8	889	0
05/26/2014 17:15	66467	15	146	3.341	309.2	19.32	3.934	302.9	17.26	4.704	295.8	15.86	26.94	26.44	25.74	-0.504	-1.203	26.29	5.992	392.3	889	0
05/26/2014 17:30	66468	15	146	3.197	306.2	14.95	3.594	302.1	13.13	3.667	294.5	10.36	26.84	26.41	25.84	-0.428	-1.006	26.46	6.003	321.9	889	0
05/26/2014 17:45	66469	15	146	2.537	321.8	25.08	3.255	317.3	22.29	3.775	310.2	16.71	26.56	26.18	25.59	-0.375	-0.971	27.62	6.381	256.6	889	0
05/26/2014 18:00	66470	15	146	2.217	330.5	21.79	2.85	324.5	20.33	3.464	327.6	20.84	26.09	25.89	25.37	-0.201	-0.715	30.33	7.335	181.1	889	0
05/26/2014 18:15	66471	15	146	2.191	3.933	19.28	3.291	3.585	14.26	4.083	0.402	10.95	25.58	25.46	24.98	-0.124	-0.606	33.06	8.17	130.7	889	0
05/26/2014 18:30	66472	15	146	2.586	19.76	12.73	4.199	15.85	5.942	5.414	12.64	3.416	24.94	24.98	24.62	0.04	-0.32	34.76	8.34	75.82	889	0
05/26/2014 18:45	66473	15	146	2.685	27.71	12.75	4.383	23.81	6.917	6.215	20.5	3.008	24.26	24.48	24.29	0.217	0.024	36.29	8.38	31.22	890	0
05/26/2014 19:00	66474	15	146	1.95	31.69	11.07	3.736	27.43	4.878	5.889	22.64	1.511	23.3	23.84	24.12	0.546	0.828	39.07	8.61	8.08	890	0
05/26/2014 19:15	66475	15	146	1.558	30.98	10.41	3.495	26.9	4.398	6.409	17.31	3.872	22.16	23.05	23.87	0.896	1.709	42.62	8.87	2.047	890	0
05/26/2014 19:30	66476	15	146	2.246	24.62	10.78	4.204	21.04	6.658	7.75	16.76	3.254	21.85	22.48	23.63	0.625	1.776	44.45	9.23	1.476	891	0
05/26/2014 19:45	66477	15	146	1.361	30.48	10.44	3.221	27.94	3.616	5.936	20.61	1.01	21.17	22.12	23.82	0.945	2.653	45.88	9.07	1.209	891	0
05/26/2014 20:00	66478	15	146	0.965	34.19	11.18	2.663	35.12	3.264	4.518	10.14	6.29	19.9	21.76	24.09	1.853	4.188	50.45	9.32	1.003	891	0
05/26/2014 20:15	66479	15	146	1.144	31.1	8.65	3.512	28.21	1.6	5.255	4.793	10.62	18.98	21.71	24.19	2.726	5.206	54.74	9.69	1.172	891	0
05/26/2014 20:30	66480	15	146	1.536	31.62	9.48	4.087	31.18	2.628	5.742	6.39	3.405	19.13	21.02	23.87	1.887	4.744	54.39	9.73	1.399	891	0
05/26/2014 20:45	66481	15	146	1.626	32.62	10.49	4.157	27.76	2.469	6.117	10.38	13.98	19.52	21.32	23.96	1.804	4.442	52.59	9.59	1.24	891	0
05/26/2014 21:00	66482	15	146	1.471	32.22	10.15	3.769	29.57	3.48	5.773	4.432	7.384	19.02	20.64	23.82	1.624	4.797	54.01	9.52	1.204	892	0
05/26/2014 21:15	66483	15	146	1.449	36.23	10.34	3.828	29.31	2.985	6.116	10.93	6.64	18.78	20.31	23.38	1.53	4.596	55.12	9.6	1.2	892	0
05/26/2014 21:30	66484	15	146	1.38	46.07	11.25	3.516	41.63	5.279	6.243	21.66	3.326	18.34	19.9	23.17	1.564	4.833	57.15	9.73	1.144	892	0
05/26/2014 21:45	66485	15	146	1.061	57.09	7.299	2.765	52.17	3.114	5.844	31.33	2.132	18.03	19.56	22.54	1.53	4.506	58	9.66	1.197	892	0
05/26/2014 22:00	66486	15	146	0.808	69.5	6.673	2.67	65.72	5.827	5.681	33.82	0.931	17.26	19.51	22.03	2.242	4.765	62.06	9.95	1.236	892	0
05/26/2014 22:15	66487	15	146	0.515	170	48.27	1.83	92.1	12.88	4.701	42.83	5.719	17.13	18.84	21.2	1.714	4.076	63.37	10.13	1.177	892	0
05/26/2014 22:30	66488	15	146	0.582	185.7	17.38	1.497	103.4	9.49	3.39	44.84	5.786	17.19	19.16	21.02	1.967	3.823	62.59	10	0.95	892	0
05/26/2014 22:45	66489	15	146	0.595	95.7	54.22	1.649	103.2	10.74	2.811	53.28	2.49	15.67	18.56	21.23	2.89	5.556	70.9	10.41	0.747	892	0
05/26/2014 23:00	66490	15	146	1.696	59.34	18.38	3.604	81.1	6.661	4.996	69.97	10.87	16.31	18.82	21	2.508	4.692	67.08	10.16	1.021	892	0
05/26/2014 23:15	66491	15	146	2.33	87.5	16.36	4.153	86.3	11.26	4.897	81.1	12.87	17.27	17.84	20.96	0.574	3.697	60.36	9.53	0.947	892	0
05/26/2014 23:30	66492	15	146	2.011	104.2	15.68	3.64	101.6	10.07	5.138	103.5	5.074	16.97	17.48	20.84	0.513	3.868	66.29	10.65	1.039	892	0
05/26/2014 23:45	66493	15	146	2.025	74.15	10.48	3.635	75.57	6.413	3.72	78.96	7.841	16.52	16.94	21.36	0.421	4.843	68.82	10.78	0.974	892	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/27/2014 00:00	66494	15	147	1.982	94.9	20.83	3.451	91.3	15.22	4.548	81.2	10.7	16.39	16.75	19.76	0.352	3.364	71.74	11.29	0.777	892	0
05/27/2014 00:15	66495	15	147	2.111	115.6	13.73	3.851	110.4	8.21	5.631	105.5	4.466	16.38	16.88	18.72	0.51	2.348	76.85	12.32	1.002	892	0
05/27/2014 00:30	66496	15	147	2.825	112.2	11.62	4.649	109.6	7.356	4.743	107.4	7.117	16.52	16.89	20.31	0.369	3.789	77.65	12.62	0.82	891	0
05/27/2014 00:45	66497	15	147	2.028	87	12.42	3.554	87.9	7.73	3.645	90.8	4.669	16.25	16.59	20.47	0.346	4.22	78.48	12.51	0.726	891	0
05/27/2014 01:00	66498	15	147	1.338	72.16	42.07	2.657	81.5	24.99	2.762	80.9	24.35	15.84	16.39	20.24	0.544	4.397	81.5	12.7	0.713	891	0
05/27/2014 01:15	66499	15	147	1.317	41.52	43.01	2.513	64.21	30.76	1.811	3.051	36.58	15.34	16	20.92	0.653	5.576	83.6	12.6	0.6	891	0
05/27/2014 01:30	66500	15	147	1.419	309.8	55.26	2.084	295.1	43.04	2.282	283	34.28	15.43	16.27	17.39	0.837	1.953	82	12.39	0.768	892	0
05/27/2014 01:45	66501	15	147	0.931	302.4	33.15	1.331	292.2	19.83	2.408	275.4	11.65	14.71	15.45	15.94	0.746	1.232	84	12.04	0.689	892	0
05/27/2014 02:00	66502	15	147	0.611	221.9	64.5	1.004	265.1	13.67	2.041	260.1	10.42	14.13	15.06	15.69	0.932	1.564	86.1	11.85	0.678	891	0
05/27/2014 02:15	66503	15	147	0.906	136.4	69.86	0.817	218.1	56.6	1.57	256.5	12.27	13.32	15.01	15.89	1.691	2.564	87.5	11.29	0.487	891	0
05/27/2014 02:30	66504	15	147	0.729	89.5	21.87	0.867	108.6	14.13	0.783	230.3	49.78	12.63	14.98	16.2	2.352	3.564	91.5	11.3	0.468	891	0
05/27/2014 02:45	66505	15	147	0.961	49.37	12.76	1.169	79.85	18	1.348	136.4	26.19	12.57	15.46	16.55	2.884	3.976	91.6	11.25	0.685	891	0
05/27/2014 03:00	66506	15	147	0.613	301	100.6	1.003	118.8	41.58	1.622	182.1	19.48	12.4	15.38	16.53	2.983	4.138	92.3	11.2	0.598	891	0
05/27/2014 03:15	66507	15	147	0.476	110.8	38.32	1.866	144.3	7.495	2.118	201.3	7.478	12.26	14.47	16.69	2.212	4.428	92.9	11.15	0.617	891	0
05/27/2014 03:30	66508	15	147	0.841	29.13	16.94	1.719	97.9	22.5	1.771	230.5	8.99	12.16	13.8	17.29	1.636	5.13	93	11.07	0.612	891	0
05/27/2014 03:45	66509	15	147	0.884	39.23	11.92	1.705	78.39	11.33	1.189	243	9.35	12.19	13.76	17.04	1.578	4.851	94.3	11.31	0.618	892	0
05/27/2014 04:00	66510	15	147	0.943	31.76	14.32	1.342	80.5	11.78	0.935	208.8	27.16	12.07	15.2	17.49	3.128	5.421	94.6	11.25	0.574	891	0
05/27/2014 04:15	66511	15	147	1.131	40.46	9.27	1.513	61.68	11.55	0.849	178.2	15.17	11.81	15.51	17.51	3.697	5.693	94.8	11.02	0.525	891	0
05/27/2014 04:30	66512	15	147	0.987	35.75	9.23	1.978	52.37	5.926	0.692	203.3	18.55	11.94	15.8	17.5	3.854	5.557	94.8	11.15	0.578	892	0
05/27/2014 04:45	66513	15	147	0.973	39.97	8.98	2.026	53.08	2.192	0.511	228.9	7.659	11.93	16.08	17.34	4.156	5.418	95	11.16	1.023	892	0
05/27/2014 05:00	66514	15	147	1.065	41.75	7.322	2.11	52.48	2.484	0.265	215	0.149	12.17	16.36	17.12	4.189	4.951	95	11.4	5.783	892	0
05/27/2014 05:15	66515	15	147	0.493	12.17	39.6	1.417	75.52	15.88	0.589	233.4	15.84	12.43	15.81	17.18	3.375	4.746	94.3	11.55	36.39	892	0
05/27/2014 05:30	66516	15	147	0.411	30.42	38.62	1.47	92.6	4.633	1.053	205	11.27	12.75	15.8	17.14	3.051	4.389	93.6	11.75	81.6	892	0
05/27/2014 05:45	66517	15	147	0.368	345.1	23.91	0.506	97.9	11.17	1.092	229.7	13.76	14.12	16.76	17.17	2.642	3.051	92.2	12.89	130.1	892	0
05/27/2014 06:00	66518	15	147	0.604	28.54	17.06	0.646	67.57	53.38	1.207	267.8	22.32	15.77	16.71	17.37	0.945	1.602	87.9	13.78	184.3	892	0
05/27/2014 06:15	66519	15	147	0.753	30.94	20.62	0.983	16.27	17.3	1.313	309.5	9.7	17.35	17.13	17.71	-0.212	0.361	79.49	13.77	267.5	892	0
05/27/2014 06:30	66520	15	147	0.858	317.6	33.82	1.088	315.4	34.7	1.37	315.4	25.37	18.2	18.04	17.85	-0.155	-0.351	71.59	12.99	334.1	892	0
05/27/2014 06:45	66521	15	147	1.469	295.5	23.13	1.511	292.9	17.45	1.714	295	17.13	18.7	18.56	18.22	-0.144	-0.484	65.69	12.17	383.2	892	0
05/27/2014 07:00	66522	15	147	1.869	318.4	14.63	2.123	315.2	10.85	2.131	308.6	8.74	19.16	18.96	18.55	-0.204	-0.608	63.01	11.97	436.3	892	0
05/27/2014 07:15	66523	15	147	1.479	317.7	22.51	1.729	315	18.26	1.857	306.8	12.63	19.75	19.51	19.01	-0.242	-0.737	59.83	11.74	500.5	892	0
05/27/2014 07:30	66524	15	147	1.765	294.5	23.56	2.02	296.5	23.64	2.036	291.3	16.87	20.34	19.99	19.58	-0.35	-0.757	55.59	11.18	563.6	892	0
05/27/2014 07:45	66525	15	147	1.71	333.2	33.37	1.982	328.1	31.06	2.203	320.2	27.12	21.01	20.56	19.96	-0.448	-1.043	50.71	10.41	625.4	892	0
05/27/2014 08:00	66526	15	147	1.677	338	26.94	2.026	330.1	25.69	2.384	329.4	18.42	21.83	21.33	20.75	-0.497	-1.075	47.16	10.06	689.6	892	0
05/27/2014 08:15	66527	15	147	2.394	349.1	19.81	3.068	343.1	16.89	3.399	338.8	14.01	22.71	21.92	21.25	-0.791	-1.458	40.52	8.62	751.7	892	0
05/27/2014 08:30	66528	15	147	2.707	329.5	26.08	3.323	326.8	21.44	3.585	320.8	16.28	23.33	22.52	21.87	-0.811	-1.46	40.36	9.12	808	892	0
05/27/2014 08:45	66529	15	147	2.659	321.1	23.7	2.987	318.2	19.67	3.23	310.7	14.87	23.82	23	22.38	-0.827	-1.449	39.91	9.39	862	892	0
05/27/2014 09:00	66530	15	147	2.75	332.2	23.75	3.305	326.8	19.26	3.599	314.9	12.56	24.49	23.5	22.83	-0.992	-1.657	37.66	9.12	918	892	0
05/27/2014 09:15	66531	15	147	2.816	310	24.74	3.163	307.1	19.21	3.521	305.2	15.34	24.97	24.15	23.35	-0.817	-1.62	35.79	8.79	967	892	0
05/27/2014 09:30	66532	15	147	2.989	301.8	22.97	3.359	300.5	22.15	3.672	299.1	15.33	25.53	24.66	23.89	-0.865	-1.642	31.52	7.406	1015	892	0
05/27/2014 09:45	66533	15	147	3.245	313.6	21.99	3.64	310	16.91	3.793	305.1	12.28	26.15	25.25	24.41	-0.906	-1.75	28.3	6.385	1058	892	0
05/27/2014 10:00	66534	15	147	2.896	324.5	25.13	3.31	318.4	20.06	3.945	312	16.75	26.43	25.54	24.66	-0.885	-1.766	27.8	6.364	1098	892	0
05/27/2014 10:15	66535	15	147	2.838	323.7	28.15	3.473	319.8	29.32	4.183	317.1	23.59	26.82	25.77	24.98	-1.049	-1.841	26.86	6.202	1132	892	0
05/27/2014 10:30	66536	15	147	2.799	332.9	20.87	3.498	329.6	18.47	4.001	327.2	16.46	27.41	26.34	25.46	-1.078	-1.953	25.14	5.745	1164	892	0
05/27/2014 10:45	66537	15	147	3.101	333.9	27.79	3.76	328.6	22.21	4.588	320.6	14.11	27.83	26.84	25.87	-0.983	-1.956	24.67	5.821	1189	892	0
05/27/2014 11:00	66538	15	147	3.055	339.5	21.35	3.87	336.8	18.94	4.689	334.9	18.68	28.4	27.25	26.22	-1.152	-2.182	23.76	5.753	1212	892	0
05/27/2014 11:15	66539	15	147	3.169	341.6	22.63	4.428	337.7	17.47	5.283	333.5	16.46	29.04	27.6	26.6	-1.441	-2.448	22	5.156	1231	892	0
05/27/2014 11:30	66540	15	147	3.944	353.1	20.13	5.326	351.6	18.46	6.3	345.8	14.15	29.35	27.89	26.91	-1.466	-2.443	20.9	4.708	1244	892	0
05/27/2014 11:45	66541	15	147	3.487	346.9	26.26	4.59	342.6	23.18	5.498	338.9	20.48	29.45	28.08	27.14	-1.378	-2.318	21.6	5.264	1249	892	0
05/27/2014 12:00	66542	15	147	3.188	331.2	35.14	3.997	327.1	23.14	4.562	321.7	17.9	29.46	28.21	27.38	-1.25	-2.077	21	4.864	1251	891	0
05/27/2014 12:15	66543	15	147	3.566	331.1	26.73	4.399	325.5	21.64	5.266	321	17.77	30.02	28.63	27.72	-1.384	-2.298	21.05	5.36	1251	891	0
05/27/2014 12:30	66544	15	147	3.295	339.4	26.97	4.18	336.5	23.98	5.187	331.9	19.15	30.18	28.78	27.73	-1.399	-2.446	21.08	5.513	1245	891	0
05/27/2014 12:45	66545	15	147	3.223	360	24.07	4.172	355	19.21	5.366	352.8	20.26	30.45	29.11	28.04	-1.349	-2.412	21.12	5.767	1236	891	0
05/27/2014 13:00	66546	15	147	3.271	347.8	36.53	4.12	345.8	31.94	4.941	343.4	23.19	30.67	29.43	28.37	-1.234	-2.295	20.16	5.275	1223	891	0
05/27/2014 13:15	66547	15	147	3.79	0.259	24.58	5.162	356.1	20.6	6.163	351.6	16.06	31.11	29.61	28.52	-1.496	-2.59	19.36	5.048	1204	891	0
05/27/2014 13:30	66548	15	147	3.164	7.866	28.13	4.316	4.625	23.63	5.411	358.8	23.67	31.41	30.13	29.09	-1.275	-2.321	18.7	4.794	1183	891	0
05/27/2014 13:45	66549	15	147	3.122	359.3	35.45	4.237	353.5	25.98	5.147	345.5	18.81	31.45	30.25	29.28	-1.209	-2.17	18.37	4.583	1155	890	0
05/27/2014 14:00	66550	15	147	3.856	9.67	24.82	5.396	7.786	20.12	6.279	3.301	19.39	31.95	30.54	29.5	-1.41	-2.45	17.91	4.615	1115	890	0
05/27/2014 14:15	66551	15	147	4.023	7.152	26.34	5.488	4.115	22.48	6.574	0.708	21.67	31.99	30.62	29.56	-1.369	-2.427	17.13	4.008	1091	890	0
05/27/2014 14:30	66552	15	147	3.918	348.8	24.22	5.234	342.7	20.03	6.248	340	18.25	32.09	30.76	29.83	-1.321	-2.254	17.52	4.413	1042	890	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/27/2014 14:45	66553	15	147	3.973	2.528	26.51	5.503	357.1	24.43	6.597	356.2	23.11	32.38	31.08	29.98	-1.304	-2.398	16.44	3.747	1002	890	0
05/27/2014 15:00	66554	15	147	3.139	1.724	44.98	4.098	358.5	41.72	5.282	355.6	37.29	32.45	31.42	30.41	-1.026	-2.038	16.87	4.165	960	890	0
05/27/2014 15:15	66555	15	147	3.985	28.98	17.42	5.741	25.33	12.42	7.014	19.26	9.34	32.33	31.04	30.04	-1.283	-2.285	16.94	4.134	903	890	0
05/27/2014 15:30	66556	15	147	3.136	26.37	24.71	4.403	18.21	22.88	5.432	16.13	21.36	32.26	31.08	30.17	-1.189	-2.097	17.26	4.351	850	890	0
05/27/2014 15:45	66557	15	147	4.006	40.78	23.04	5.707	36.13	17.79	6.638	28.76	13.68	32.28	31.13	30.29	-1.154	-1.989	17.53	4.586	788.3	890	0
05/27/2014 16:00	66558	15	147	4.041	26.1	18.49	6.095	20.51	16.81	7.308	17.18	12.39	32.36	31.25	30.31	-1.107	-2.052	16.87	4.096	732.6	890	0
05/27/2014 16:15	66559	15	147	4.553	17.13	20.9	6.594	13.5	13.84	7.892	14.01	8	32.14	31.24	30.3	-0.902	-1.849	16.88	3.928	673.4	890	0
05/27/2014 16:30	66560	15	147	3.66	16.26	22.27	5.184	12.92	19.05	6.36	6.93	16.86	32.01	31.21	30.3	-0.803	-1.711	16.83	3.789	610.5	890	0
05/27/2014 16:45	66561	15	147	3.712	18.14	26.77	5.259	15.9	21.56	6.392	15.94	17.37	31.73	31	30.21	-0.733	-1.517	17.49	4.105	547	889	0
05/27/2014 17:00	66562	15	147	4.305	31.88	18.54	6.4	26.94	12.83	7.852	20.16	9.13	31.58	30.89	30.08	-0.695	-1.504	17.55	4.036	479.8	889	0
05/27/2014 17:15	66563	15	147	4.51	35.81	16.47	6.766	31.14	11.48	8.31	27.35	8.85	31.27	30.68	29.92	-0.584	-1.349	17.73	3.92	410.4	889	0
05/27/2014 17:30	66564	15	147	4.079	40.32	15.53	5.965	34.69	10.2	7.455	31.87	8.61	30.95	30.53	29.79	-0.419	-1.157	17.92	3.81	340.6	890	0
05/27/2014 17:45	66565	15	147	4.148	33.55	16.79	6.27	29.52	12.04	7.568	25.7	9.79	30.7	30.39	29.77	-0.312	-0.932	18.29	3.909	272.9	890	0
05/27/2014 18:00	66566	15	147	3.744	30.76	15.3	5.669	25.2	10.81	7.125	23.11	9.3	30.39	30.23	29.68	-0.164	-0.717	19.09	4.269	207	890	0
05/27/2014 18:15	66567	15	147	3.202	33.25	14.85	4.871	29.59	10.05	6.653	26.72	6.161	29.98	29.98	29.52	-0.001	-0.465	19.18	4.005	144.1	890	0
05/27/2014 18:30	66568	15	147	2.932	38.28	15.21	4.54	34.82	9.67	5.997	32.95	6.717	29.47	29.66	29.34	0.184	-0.137	20.87	4.783	85.2	890	0
05/27/2014 18:45	66569	15	147	2.414	38.22	14.9	4.028	33.54	9.02	5.773	28.81	5.018	28.72	29.17	29.06	0.442	0.337	22	4.923	36.66	890	0
05/27/2014 19:00	66570	15	147	1.445	46.73	12.16	2.738	41.47	7.557	4.967	36	5.462	27.49	28.39	28.62	0.904	1.132	24.58	5.472	8.63	891	0
05/27/2014 19:15	66571	15	147	1.386	54.26	12.73	3.04	45.83	8.59	5.969	40.45	4.799	25.98	27.48	28.37	1.495	2.387	27.99	6.072	2.067	891	0
05/27/2014 19:30	66572	15	147	1.384	63.18	6.791	3.414	60.37	2.231	6.506	45.19	2.822	24.06	26.26	28.04	2.208	3.987	32.99	6.786	1.296	891	0
05/27/2014 19:45	66573	15	147	2.162	73.04	11.06	4.329	64.78	6.874	7.962	47.58	4.527	24.14	25.59	28.04	1.454	3.898	34.38	7.471	1.444	891	0
05/27/2014 20:00	66574	15	147	2	64.19	15.26	3.749	60.3	9.87	8.31	51.48	2	24.59	25.55	27.92	0.961	3.336	32.72	7.145	1.221	891	0
05/27/2014 20:15	66575	15	147	1.564	64.82	6.078	3.432	60.87	2.741	6.938	53.38	3.443	23.69	25.63	27.66	1.943	3.974	34.12	6.961	1.21	891	0
05/27/2014 20:30	66576	15	147	1.892	69.72	8.04	4.133	65.56	4.047	7.773	62.22	2.857	23.11	25.17	26.89	2.062	3.78	36.92	7.609	1.339	891	0
05/27/2014 20:45	66577	15	147	1.563	75.82	9.68	3.2	70.67	6.301	7.274	64.91	2.307	23.73	24.86	26.4	1.127	2.671	35.28	7.496	1.192	891	0
05/27/2014 21:00	66578	15	147	1.478	78.87	6.155	3.238	77.62	3.492	6.448	71.88	2.333	22.95	25.01	26.08	2.064	3.126	36.97	7.488	1.037	892	0
05/27/2014 21:15	66579	15	147	1.879	77.57	8.55	4.098	77	3.273	7.402	70.13	2.154	22.74	24.78	26.26	2.036	3.518	37.52	7.522	1.273	892	0
05/27/2014 21:30	66580	15	147	1.89	87.1	8.45	3.936	84.3	3.553	7.562	75.15	1.888	22.51	23.95	26.11	1.442	3.606	37.6	7.346	1.292	892	0
05/27/2014 21:45	66581	15	147	1.816	90.1	9.62	3.755	87.5	4.632	7.664	83	1.812	22.16	23.44	26.12	1.271	3.959	38.14	7.251	1.185	892	0
05/27/2014 22:00	66582	15	147	2.155	92.3	9.11	4.075	90.4	4.605	7.782	87.6	1.147	22.27	23.34	25.75	1.069	3.484	37.58	7.124	1.227	892	0
05/27/2014 22:15	66583	15	147	2.406	87.5	9.87	4.316	87.2	5.526	8.39	85.2	1.908	22.32	23.15	25.33	0.833	3.018	37.38	7.09	1.323	892	0
05/27/2014 22:30	66584	15	147	2.69	85.2	9.8	4.349	83.2	6.266	8.76	83.9	2.218	22.41	22.99	24.84	0.583	2.44	37.39	7.175	1.351	892	0
05/27/2014 22:45	66585	15	147	2.659	92	10.75	4.283	88	7.125	8.49	88.4	2.503	22.47	22.92	24.22	0.452	1.75	38.21	7.549	1.223	892	0
05/27/2014 23:00	66586	15	147	2.83	98.8	10.11	4.427	96.3	7.127	8.24	95.5	3.015	22.55	23.02	23.69	0.467	1.141	39.57	8.13	1.218	892	0
05/27/2014 23:15	66587	15	147	3.231	98.6	10.65	4.941	95.2	6.67	8.52	94.4	2.6	22.34	22.74	23.18	0.397	0.836	41.75	8.74	1.504	892	0
05/27/2014 23:30	66588	15	147	3.588	99.7	10.49	5.185	95.7	6.844	8.82	93.6	3.248	22.15	22.4	22.66	0.259	0.517	44.69	9.57	1.387	893	0
05/27/2014 23:45	66589	15	147	3.974	98.1	10.93	5.745	94.4	7.059	9.32	92.9	3.606	22.17	22.34	22.4	0.17	0.229	46.96	10.33	1.591	892	0
05/28/2014 00:00	66590	15	148	3.974	93.7	10.76	5.994	90.2	7.053	9.44	88.8	3.483	21.71	21.94	22.04	0.226	0.33	49.14	10.59	1.378	892	0
05/28/2014 00:15	66591	15	148	4.042	91.7	11.26	5.955	87.8	7.376	9.48	87.6	3.745	21.39	21.63	21.79	0.242	0.407	50.93	10.83	1.432	892	0
05/28/2014 00:30	66592	15	148	4.229	86.9	11.07	6.049	83.8	7.257	9.67	84.1	3.76	21.14	21.35	21.52	0.218	0.382	52.7	11.11	1.508	892	0
05/28/2014 00:45	66593	15	148	3.686	91.2	12.09	5.518	87.4	8.21	8.93	85.8	4.405	20.82	21.07	21.21	0.251	0.392	54.53	11.33	1.46	892	0
05/28/2014 01:00	66594	15	148	3.538	99.3	11.29	5.27	96.9	7.663	8.72	92.2	4.583	20.45	20.71	20.87	0.256	0.42	56.23	11.46	1.402	892	0
05/28/2014 01:15	66595	15	148	3.451	102.7	10.66	5.142	99.9	7.231	8.78	96.6	3.292	20	20.25	20.54	0.247	0.538	57.81	11.46	1.307	892	0
05/28/2014 01:30	66596	15	148	3.596	100.3	10.86	5.339	96.7	7.506	9.01	95.4	2.741	19.7	19.94	20.38	0.236	0.686	59.27	11.55	1.299	892	0
05/28/2014 01:45	66597	15	148	3.533	95.5	10.43	5.273	92.4	7.053	9.23	93.4	2.747	19.52	19.76	20.3	0.238	0.783	60.31	11.65	1.437	892	0
05/28/2014 02:00	66598	15	148	2.663	101.9	19.55	4.009	96.9	12.15	7.838	95.2	4.918	19.34	19.58	19.99	0.239	0.654	61.68	11.82	1.208	892	0
05/28/2014 02:15	66599	15	148	1.376	258.5	77.12	2.13	258.1	80.4	2.771	165.7	85.9	18.75	19.2	19.24	0.451	0.488	63.3	11.65	0.808	893	0
05/28/2014 02:30	66600	15	148	1.448	127.4	31.89	2.127	115.8	25.92	3.31	104.8	20.64	19	19.5	19.43	0.502	0.433	63.53	11.94	0.947	893	0
05/28/2014 02:45	66601	15	148	1.054	234.8	49.37	1.81	221.3	40.03	1.956	187.8	56.76	18.1	18.92	18.95	0.823	0.85	66.33	11.74	0.827	893	0
05/28/2014 03:00	66602	15	148	1.532	164.7	53.86	2.299	143.6	33.14	2.948	124.3	25.38	17.38	18.67	18.78	1.291	1.399	68.97	11.64	0.749	893	0
05/28/2014 03:15	66603	15	148	1.263	89.6	29.22	2.248	98.6	19.43	3.065	108.9	11.93	17.31	18.69	18.84	1.38	1.525	69.96	11.79	0.721	893	0
05/28/2014 03:30	66604	15	148	1.195	77.7	7.412	2.648	82.6	2.533	3.131	100.6	3.119	16.78	18.54	18.89	1.755	2.109	72.33	11.79	0.804	893	0
05/28/2014 03:45	66605	15	148	1.063	53.14	15.28	2.368	73.38	2.688	2.969	86.3	4.419	16.04	18.28	18.44	2.238	2.403	75.76	11.78	0.684	893	0
05/28/2014 04:00	66606	15	148	1.333	74.25	5.97	2.989	73.82	2.241	4.173	83.7	1.347	15.71	17.78	18.29	2.069	2.584	77.66	11.83	0.805	893	0
05/28/2014 04:15	66607	15	148	1.231	67.32	6.548	2.757	68.56	2.214	4.959	88.1	2.323	15.6	16.97	18.69	1.37	3.094	78.5	11.89	1.005	893	0
05/28/2014 04:30	66608	15	148	1.787	67.35	7.38	3.791	69.5	2.981	5.242	94.7	2.057	15.44	17.19	19.29	1.741	3.844	79.89	12	1.148	893	0
05/28/2014 04:45	66609	15	148	1.884	70.62	7.524	3.618	73.97	3.433	5.015	99	2.345	15.77	16.69	19.45	0.923	3.678	78.19	11.99	1.663	893	0
05/28/2014 05:00	66610	15	148	2.074	77.23	8.74	3.885	78.97	4.169	5.088	103.7	2.199	15.82	16.6	19.6	0.778	3.774	78.64	12.13	6.845	893	0
05/28/2014 05:15	66611	15	148	2.229	75.92	8.74	3.983	76.57	4.758	5.137	102.2	3.006	16.07	16.63	19.49	0.559	3.413	77.67	12.19	27.78	893	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/28/2014 05:30	66612	15	148	1.87	69.5	11	3.302	70.37	6.91	5.324	94.1	3.476	16.52	16.79	19.21	0.268	2.693	76.71	12.43	68.2	894	0
05/28/2014 05:45	66613	15	148	1.873	74.47	11.04	2.804	72.9	7.779	5.799	86.2	3.519	17.48	17.42	18.47	-0.055	0.992	73.71	12.75	119.2	894	0
05/28/2014 06:00	66614	15	148	1.98	78.66	12.22	2.87	75.31	9.43	4.893	83.8	4.366	18.66	18.46	18.41	-0.2	-0.252	69.84	13.06	177.4	894	0
05/28/2014 06:15	66615	15	148	2.374	93.8	12.17	3.241	92	9.71	4.254	95.4	7.687	19.73	19.4	18.98	-0.334	-0.753	64.8	12.94	241	894	0
05/28/2014 06:30	66616	15	148	2.422	109.2	14.82	3.287	103.9	9.58	4.022	101.5	6.601	20.52	20.07	19.51	-0.45	-1.014	60.81	12.71	305.2	894	0
05/28/2014 06:45	66617	15	148	2.303	114.9	15.99	2.997	110.5	11.03	3.455	107.1	7.498	21.03	20.44	19.86	-0.595	-1.175	58.69	12.65	370.6	894	0
05/28/2014 07:00	66618	15	148	2.331	127	16.2	3.063	120.7	10.57	3.372	114.9	5.959	21.43	20.74	20.1	-0.685	-1.326	57.05	12.59	436.8	894	0
05/28/2014 07:15	66619	15	148	2.18	129.4	18.88	2.786	124.7	13.33	3.186	120.5	12.75	21.84	21.12	20.48	-0.714	-1.357	55.97	12.68	502	894	0
05/28/2014 07:30	66620	15	148	1.955	151.1	24.12	2.435	145	19.03	2.785	143.3	14.45	22.35	21.72	21.05	-0.637	-1.304	53.11	12.36	566.9	894	0
05/28/2014 07:45	66621	15	148	1.524	146.3	24.73	1.864	142.5	17.83	2.106	144.5	16.2	22.68	22.11	21.49	-0.565	-1.189	51.66	12.23	630	894	0
05/28/2014 08:00	66622	15	148	1.46	144.7	38.17	1.754	143.3	26.49	2.047	145.1	18.87	23	22.5	21.94	-0.504	-1.062	50	12.04	690.1	894	0
05/28/2014 08:15	66623	15	148	1.297	101.1	41.79	1.549	96.5	38.51	1.719	109.9	42.56	23.72	22.88	22.3	-0.845	-1.426	47.85	12.03	750.9	895	0
05/28/2014 08:30	66624	15	148	1.387	152.9	67.89	1.536	127.8	63.93	1.692	113.9	49.55	23.68	23.26	22.63	-0.423	-1.059	46.88	11.69	808	895	0
05/28/2014 08:45	66625	15	148	1.404	165.6	59.48	1.719	156.8	54.76	2.1	138.4	43.09	24.57	24.06	23.26	-0.519	-1.313	44.6	11.74	861	894	0
05/28/2014 09:00	66626	15	148	1.223	32.31	103.6	1.387	105.5	85	1.494	113.5	78.26	24.61	24.22	23.63	-0.389	-0.976	43.27	11.31	914	894	0
05/28/2014 09:15	66627	15	148	1.476	148.2	57.97	1.698	153.8	50.96	2.018	168.3	39.86	25.27	24.66	24.04	-0.608	-1.225	41.28	11.2	967	894	0
05/28/2014 09:30	66628	15	148	1.819	176.8	38.38	2.294	170.7	32.84	2.826	167.8	34.54	26.2	25.24	24.48	-0.961	-1.716	38.92	11.14	1010	894	0
05/28/2014 09:45	66629	15	148	2.035	157	45.01	2.501	151.9	42.88	2.731	138.7	46.78	26.8	25.73	24.82	-1.071	-1.979	36.86	10.85	1056	894	0
05/28/2014 10:00	66630	15	148	1.458	18.42	79.97	1.786	17.76	76.06	2.135	51.59	47.1	26.92	26.16	25.36	-0.764	-1.567	33.93	9.71	1095	894	0
05/28/2014 10:15	66631	15	148	2.369	40.85	44.1	2.956	43.18	36.57	3.2	50.97	26.77	27.56	26.36	25.63	-1.197	-1.926	31.71	9.27	1128	894	0
05/28/2014 10:30	66632	15	148	1.792	58.5	38.84	2.279	50.22	31.03	2.593	42.72	28.61	27.41	26.57	25.77	-0.834	-1.637	32.1	9.32	1155	894	0
05/28/2014 10:45	66633	15	148	1.896	51.82	42.69	2.356	48.17	31.37	2.926	50.71	26.8	28	27.01	26.22	-0.994	-1.782	30.77	9.2	1179	894	0
05/28/2014 11:00	66634	15	148	2.395	97.7	42.9	2.99	92.2	34.55	3.397	85.8	23.07	28.38	27.3	26.59	-1.08	-1.796	29.63	8.98	1203	894	0
05/28/2014 11:15	66635	15	148	2.2	81.8	50.25	2.769	79.67	38.57	3.147	63.67	40.23	28.89	27.75	26.86	-1.144	-2.034	28.44	8.81	1223	893	0
05/28/2014 11:30	66636	15	148	2.784	358.2	50.8	3.449	360	41.61	4.162	2.602	33.45	29.4	28.28	27.3	-1.117	-2.097	27.48	8.73	1228	893	0
05/28/2014 11:45	66637	15	148	2.951	79.62	35.12	3.81	72.16	32.11	4.544	65.87	29.75	30.06	28.55	27.5	-1.511	-2.553	25.33	8.09	1241	893	0
05/28/2014 12:00	66638	15	148	2.394	68.81	52.17	3.115	60.3	38.87	3.745	58.12	29.81	29.67	28.49	27.57	-1.18	-2.096	24.87	7.483	1243	893	0
05/28/2014 12:15	66639	15	148	2.766	49.54	31.1	3.511	43.27	23.73	4.189	39.31	20.48	30.35	28.96	27.9	-1.394	-2.452	24.83	8.04	1239	893	0
05/28/2014 12:30	66640	15	148	3.182	46.82	40.8	4.329	44.9	30.14	5.138	41.68	20.66	30.46	29.11	28.16	-1.356	-2.304	24.53	7.947	1235	893	0
05/28/2014 12:45	66641	15	148	2.811	37.2	24.34	3.832	35.89	17.46	4.823	34.05	12.66	30.46	28.98	28.06	-1.479	-2.394	23.83	7.53	1228	892	0
05/28/2014 13:00	66642	15	148	2.283	43.43	48.4	3.062	37.31	38.13	3.575	35.47	34.56	30.43	29.4	28.58	-1.024	-1.848	24.02	7.616	1216	892	0
05/28/2014 13:15	66643	15	148	2.448	14.49	46.6	3.17	17.14	40.45	3.91	22.85	34.66	30.47	29.36	28.53	-1.109	-1.933	23.89	7.562	1196	892	0
05/28/2014 13:30	66644	15	148	2.582	39.19	48.49	3.32	37.64	39.4	3.874	39.95	32.94	30.72	29.5	28.61	-1.227	-2.112	23.42	7.492	1168	892	0
05/28/2014 13:45	66645	15	148	3.308	50	29.2	4.361	44.75	24.97	5.293	40.48	20.22	31.43	30	29.02	-1.432	-2.411	21.79	7.027	1146	892	0
05/28/2014 14:00	66646	15	148	2.894	47.28	35.39	3.961	41.93	30.29	4.776	39.63	25.77	32	30.53	29.49	-1.474	-2.508	21.73	7.459	1105	891	0
05/28/2014 14:15	66647	15	148	4.013	72.78	24.55	5.354	65.03	20.02	6.258	61.35	14.97	31.78	30.36	29.26	-1.428	-2.527	21.43	7.078	1071	891	0
05/28/2014 14:30	66648	15	148	3.737	51.19	31.58	4.996	46.48	29.22	6.075	42.24	25.83	32.15	30.66	29.56	-1.495	-2.594	20.48	6.72	1025	891	0
05/28/2014 14:45	66649	15	148	4.36	52.2	19.57	5.917	48.5	16	6.865	46.1	14.09	31.83	30.49	29.46	-1.34	-2.362	20.04	6.136	988	891	0
05/28/2014 15:00	66650	15	148	3.637	34.35	24.56	5.068	30.51	20.55	5.891	27.67	20.77	32.01	30.55	29.59	-1.456	-2.42	20.89	6.893	948	891	0
05/28/2014 15:15	66651	15	148	3.329	60.12	36.74	4.437	58.26	28.94	5.287	57.98	17.13	31.81	30.66	29.82	-1.146	-1.983	20.1	6.169	894	891	0
05/28/2014 15:30	66652	15	148	3.759	58.04	21.14	5.009	50.97	16.38	5.984	51.88	14.14	31.88	30.74	29.82	-1.143	-2.064	20.11	6.232	839	891	0
05/28/2014 15:45	66653	15	148	3.563	48.34	29.27	4.947	44.21	23.22	5.787	38.21	14.24	31.79	30.71	29.86	-1.076	-1.933	20.26	6.27	778.5	890	0
05/28/2014 16:00	66654	15	148	3.691	42.29	23.52	5.136	39.13	19.84	5.919	33.08	19.4	31.95	30.79	29.96	-1.166	-1.992	19.41	5.782	727.2	890	0
05/28/2014 16:15	66655	15	148	3.375	74.69	23.14	4.456	68.68	20.35	5.306	67.04	17.49	31.9	30.92	30.02	-0.977	-1.883	19.49	5.794	662.6	890	0
05/28/2014 16:30	66656	15	148	2.741	57.09	35.14	3.766	54.9	27.52	4.427	47.91	25.26	31.7	30.89	30.11	-0.809	-1.594	20.16	6.117	604.8	890	0
05/28/2014 16:45	66657	15	148	2.662	44.26	28.27	3.596	40.15	22.86	4.351	41.77	20.03	31.7	30.92	30.12	-0.773	-1.573	19.62	5.723	540.2	890	0
05/28/2014 17:00	66658	15	148	3.142	50.89	17.85	4.536	47.18	13.51	5.382	46.68	10.88	31.63	30.8	30.04	-0.839	-1.597	20.76	6.497	471.2	890	0
05/28/2014 17:15	66659	15	148	3.339	44.7	21.2	4.665	41.19	17.58	5.82	39.05	12.56	31.41	30.79	30.07	-0.618	-1.344	21.24	6.644	403.3	890	0
05/28/2014 17:30	66660	15	148	3.634	42.26	25.94	5.105	38.09	21.36	6.15	34.89	21	31.24	30.73	30.01	-0.512	-1.23	21.32	6.555	334.7	890	0
05/28/2014 17:45	66661	15	148	2.635	61.03	18.38	3.576	54.39	13.65	4.445	49.04	11.48	31.06	30.71	30.09	-0.354	-0.974	19.97	5.459	263.2	890	0
05/28/2014 18:00	66662	15	148	3.019	56.51	16.32	4.288	50.11	13.84	5.339	45.52	12.05	30.88	30.65	30.09	-0.226	-0.787	19.6	5.049	202.1	890	0
05/28/2014 18:15	66663	15	148	2.911	68.32	12.77	4.498	39.2	9.02	5.585	36.1	10.14	30.46	30.42	29.95	-0.044	-0.514	19.43	4.58	139.5	890	0
05/28/2014 18:30	66664	15	148	2.946	75.1	21.08	4.597	36.69	10.69	6.339	35.03	9.46	29.94	30.07	29.72	0.134	-0.215	20.21	4.708	83.8	890	0
05/28/2014 18:45	66665	15	148	2.692	97	11.14	4.301	43.47	8.08	6.109	43.55	5.946	29.25	29.64	29.52	0.392	0.273	21.36	4.93	29.07	890	0
05/28/2014 19:00	66666	15	148	1.813	129.1	10.41	3.255	76.37	8.65	5.231	70.92	6.876	27.81	28.7	29.06	0.886	1.25	24.58	5.736	6.883	891	0
05/28/2014 19:15	66667	15	148	1.583	121.1	7.982	3.028	74.23	7.239	5.658	82.9	4.792	26.7	27.93	28.65	1.227	1.944	26.95	6.153	1.958	891	0
05/28/2014 19:30	66668	15	148	1.95	128.7	7.667	3.668	80.9	5.528	6.322	86.3	3.748	26.39	27.57	28.22	1.182	1.837	27	5.907	0.915	891	0
05/28/2014 19:45	66669	15	148	2.388	138.6	8.7	4.152	86.3	6.431	7.639	87.7	2.805	26.3	27.09	27.85	0.791	1.549	27.05	5.86	1.16	891	0
05/28/2014 20:00	66670	15	148	2.795	143.3	8.54	4.387	89	6.399	8.05	87.8	2.338	26.11	26.74	27.39	0.626	1.279	27.24	5.797	1.115	891	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/28/2014 20:15	66671	15	148	2.819	141.3	8.42	4.66	86.8	6.448	8.66	88.9	2.536	25.54	26.18	27.04	0.635	1.497	28.43	5.928	1.441	891	0
05/28/2014 20:30	66672	15	148	3.391	144.7	8.51	5.161	87.5	7.04	9.46	87.3	3.295	25.49	25.99	26.79	0.498	1.303	28.86	6.105	1.428	891	0
05/28/2014 20:45	66673	15	148	3.542	145.8	8.74	5.163	87.5	7.284	8.93	88.1	3.415	25.28	25.68	26.13	0.401	0.854	29.92	6.441	1.369	892	0
05/28/2014 21:00	66674	15	148	3.318	147.5	8.42	5.06	88.7	6.709	8.57	88.5	3.48	24.78	25.2	25.6	0.426	0.829	31.5	6.754	1.335	892	0
05/28/2014 21:15	66675	15	148	3.263	146.9	8.49	5.033	87	6.44	8.93	86.6	3.126	24.21	24.64	25.14	0.428	0.934	33.23	7.04	1.315	892	0
05/28/2014 21:30	66676	15	148	3.203	154	9.46	4.915	94.3	7.341	8.46	90.8	4.173	23.8	24.23	24.7	0.427	0.9	34.34	7.159	1.386	892	0
05/28/2014 21:45	66677	15	148	2.857	154.6	8.68	4.52	94.8	7.259	8.62	92.4	3.32	23.13	23.61	24.38	0.474	1.251	36.07	7.293	1.363	892	0
05/28/2014 22:00	66678	15	148	3.499	152.1	8.29	5.424	91.5	6.278	9.95	91.9	2.189	23.09	23.5	24.56	0.413	1.476	36.4	7.385	1.283	892	0
05/28/2014 22:15	66679	15	148	3.579	155.3	7.938	5.354	94.2	6.261	9.6	93.6	1.845	22.94	23.31	24.12	0.371	1.188	36.53	7.304	1.362	892	0
05/28/2014 22:30	66680	15	148	3.493	157.2	8.25	5.23	96.5	6.321	9.7	96.4	2.449	22.6	22.99	23.91	0.398	1.314	37.59	7.422	1.429	892	0
05/28/2014 22:45	66681	15	148	3.55	155.4	8.46	5.293	94.6	6.53	9.69	95.1	2.76	22.51	22.89	23.71	0.372	1.201	37.91	7.47	1.278	892	0
05/28/2014 23:00	66682	15	148	3.605	157.7	8.62	5.395	94.9	7.277	10.09	94.7	2.325	22.29	22.65	23.57	0.364	1.276	38.43	7.471	1.672	892	0
05/28/2014 23:15	66683	15	148	3.521	162.5	8.91	5.29	101	6.981	9.56	97.4	2.885	22.19	22.57	23.26	0.373	1.07	38.33	7.346	1.535	892	0
05/28/2014 23:30	66684	15	148	3.393	165.7	9.4	5.198	104.7	7.548	9.27	98.4	3.479	22.01	22.39	22.97	0.379	0.951	38.25	7.159	1.476	892	0
05/28/2014 23:45	66685	15	148	3.28	168.1	8.9	5.062	108.7	6.754	9.33	101.5	2.538	21.5	21.89	22.62	0.389	1.12	39.57	7.19	1.518	892	0
05/29/2014 00:00	66686	15	149	3.666	163.8	8.82	5.619	105.6	6.825	9.81	102.1	2.833	21.54	21.9	22.55	0.36	1.007	39.79	7.313	1.568	892	0
05/29/2014 00:15	66687	15	149	3.658	169	9.82	5.482	112.4	7.714	9.4	107.6	4.196	21.45	21.79	22.21	0.344	0.764	40.61	7.529	1.462	891	0
05/29/2014 00:30	66688	15	149	3.22	178.7	9.29	5.051	123.5	6.685	8.64	118.6	3.983	20.82	21.21	21.67	0.389	0.854	42.7	7.694	1.583	891	0
05/29/2014 00:45	66689	15	149	3.058	170	9.03	4.914	117.7	6.166	8.81	121.6	2.785	20.48	20.89	21.79	0.415	1.312	45.16	8.21	1.518	891	0
05/29/2014 01:00	66690	15	149	2.678	182.2	9.16	4.368	130.9	6.948	7.519	128.9	4.055	20.57	21.08	21.72	0.508	1.15	46.53	8.74	1.501	892	0
05/29/2014 01:15	66691	15	149	2.536	169.5	12.09	4.394	124.7	6.091	7.593	127.7	3.274	20.37	20.98	21.69	0.611	1.326	47.78	8.94	1.341	892	0
05/29/2014 01:30	66692	15	149	2.548	144.2	10.55	4.246	127	6.898	7.873	128.8	2.626	20.31	20.84	21.55	0.526	1.241	48.34	9.07	1.311	891	0
05/29/2014 01:45	66693	15	149	2.48	141.7	10.55	4.257	125.5	5.769	7.993	130.6	2.091	20.09	20.6	21.47	0.511	1.385	49.39	9.18	1.54	891	0
05/29/2014 02:00	66694	15	149	2.37	138.9	9.98	4.165	124.6	5.601	7.914	130.8	2.273	19.84	20.4	21.38	0.562	1.548	50.75	9.35	1.565	891	0
05/29/2014 02:15	66695	15	149	1.804	160.7	19.26	3.191	137.4	12.34	6.585	132.1	4.924	19.63	20.26	21.11	0.633	1.485	52.15	9.56	1.203	891	0
05/29/2014 02:30	66696	15	149	0.992	202	12.29	2.159	160.3	8.19	5.114	141.5	2.937	18.81	19.9	20.86	1.088	2.056	54.94	9.58	0.968	892	0
05/29/2014 02:45	66697	15	149	0.511	237.2	77.34	1.199	158.5	31.79	4.009	141.2	4.194	18.52	19.74	20.75	1.219	2.236	56.41	9.7	0.947	892	0
05/29/2014 03:00	66698	15	149	0.748	65.81	44.52	1.188	106.1	20.33	3.663	136.4	5.415	17.27	19.77	20.68	2.505	3.412	60.67	9.6	0.913	892	0
05/29/2014 03:15	66699	15	149	0.728	131	77.87	1.756	133.8	9.04	3.283	146.4	3.812	17.11	19.44	20.72	2.331	3.609	62.68	9.95	0.733	892	0
05/29/2014 03:30	66700	15	149	0.619	69.93	21.16	1.656	122.8	9.86	3.567	141.5	3.964	17.07	19.07	20.77	2.005	3.704	63.15	10.02	0.842	892	0
05/29/2014 03:45	66701	15	149	1.114	108.3	5.307	2.529	131.6	5.701	4.328	139.3	7.019	17.15	19.82	20.86	2.667	3.702	63.6	10.21	0.791	892	0
05/29/2014 04:00	66702	15	149	1.451	107.4	6.484	3.192	122.8	3.18	4.709	130.2	2.761	17.23	20.3	20.74	3.069	3.511	64.37	10.46	0.891	892	0
05/29/2014 04:15	66703	15	149	1.025	99.9	13.98	2.807	108	8.45	4.326	127.7	4.089	16.92	19.06	20.57	2.138	3.651	66.09	10.56	0.88	892	0
05/29/2014 04:30	66704	15	149	1.637	88.3	7.748	3.503	102.6	3.423	4.386	123.2	2.253	16.39	18.86	20.32	2.478	3.931	68.35	10.56	0.991	892	0
05/29/2014 04:45	66705	15	149	2.046	97.4	7.829	4.283	100.7	4.607	5.298	117.2	3.072	16.87	18.75	20.21	1.874	3.336	68	10.95	1.765	892	0
05/29/2014 05:00	66706	15	149	1.951	99.5	8.92	3.817	97.9	4.562	5.556	117.3	2.316	17.57	18.48	20.19	0.909	2.616	65.79	11.12	7.027	892	0
05/29/2014 05:15	66707	15	149	1.948	100.3	11.55	3.668	97.2	6.403	5.931	118.5	4.587	17.74	18.35	20.24	0.607	2.499	64.84	11.06	26.61	892	0
05/29/2014 05:30	66708	15	149	1.918	104.3	11.46	3.392	101.8	6.33	5.952	125.2	2.547	18.26	18.62	20.53	0.364	2.275	63.7	11.28	65.71	892	0
05/29/2014 05:45	66709	15	149	2.048	107.2	11.9	3.246	102.3	7.293	6.094	118.7	3.254	19.12	19.19	20.33	0.073	1.211	61.63	11.59	116.6	892	0
05/29/2014 06:00	66710	15	149	2.384	117.4	12	3.569	110	7.471	5.794	118.1	3.737	20.18	20.04	20.28	-0.137	0.101	58.5	11.8	176	892	0
05/29/2014 06:15	66711	15	149	2.777	116	11.81	3.81	111.4	7.906	5.624	116.7	3.96	21.09	20.82	20.62	-0.263	-0.464	55.34	11.8	238.6	892	0
05/29/2014 06:30	66712	15	149	2.858	117.9	11.84	3.857	111.6	7.566	5.174	116.5	5.838	21.95	21.56	21.15	-0.393	-0.808	52.58	11.84	304.7	892	0
05/29/2014 06:45	66713	15	149	3.196	121.5	13.06	4.483	114.3	7.793	5.18	114.6	5.124	22.72	22.18	21.64	-0.541	-1.08	50.55	11.95	373.7	892	0
05/29/2014 07:00	66714	15	149	3.005	129.5	14.5	4.133	121.4	10.15	4.892	117.6	6.065	23.62	22.94	22.28	-0.684	-1.347	48.22	12.06	444.9	892	0
05/29/2014 07:15	66715	15	149	3.221	134.9	14.84	4.298	128.1	9.68	4.799	122.8	6.76	24.33	23.53	22.86	-0.797	-1.472	45.68	11.88	511.7	892	0
05/29/2014 07:30	66716	15	149	2.776	139.6	18.32	3.812	132.6	14.53	4.259	126.5	11.41	24.89	24.03	23.41	-0.859	-1.482	44.07	11.85	576.7	892	0
05/29/2014 07:45	66717	15	149	2.889	137.8	16.75	3.806	130.8	13.23	4.504	128.4	10.23	25.71	24.82	24.02	-0.89	-1.687	40.71	11.38	644.8	892	0
05/29/2014 08:00	66718	15	149	2.639	146.5	24.02	3.5	136.2	20.11	4.118	136.1	14.18	26	25.03	24.34	-0.974	-1.658	38.96	10.98	667.6	892	0
05/29/2014 08:15	66719	15	149	2.73	158.6	19.87	3.474	150.4	17.21	3.967	148.9	16.36	26.01	25.25	24.57	-0.76	-1.439	38.59	10.85	602.6	892	0
05/29/2014 08:30	66720	15	149	2.345	153	35.37	2.891	147.9	28.02	3.324	148.3	19.17	26.29	25.48	24.74	-0.811	-1.558	37.73	10.76	815	892	0
05/29/2014 08:45	66721	15	149	2.256	142.6	34.11	2.86	139.5	31.81	3.375	140.1	29.27	26.89	25.91	25.12	-0.979	-1.761	36.73	10.88	876	892	0
05/29/2014 09:00	66722	15	149	2.425	174.5	31.54	2.996	167.4	25.54	3.474	161.8	18.12	26.92	26.04	25.34	-0.875	-1.577	36.58	10.85	896	892	0
05/29/2014 09:15	66723	15	149	2.482	126.3	36.16	3.065	122.6	29.5	3.536	127.9	26.17	27.45	26.46	25.78	-0.988	-1.67	34.81	10.56	957	892	0
05/29/2014 09:30	66724	15	149	2.188	181.2	30	2.688	172.5	23.02	3.239	166.4	23.36	27.36	26.54	25.78	-0.822	-1.588	33.82	10.06	1000	892	0
05/29/2014 09:45	66725	15	149	2.104	164.5	39.58	2.669	155.2	35.92	3.12	154.4	31.43	28.14	27.08	26.18	-1.052	-1.956	32.47	10.12	1011	892	0
05/29/2014 10:00	66726	15	149	2.612	168.7	46.07	3.141	158.2	43.99	3.45	136.5	21.77	27.91	26.81	26.11	-1.097	-1.791	31.26	9.36	1064	892	0
05/29/2014 10:15	66727	15	149	2.963	144.1	37.47	3.74	138	34.09	4.529	134.6	30.53	28.93	27.5	26.57	-1.429	-2.361	29.34	9.29	1147	892	0
05/29/2014 10:30	66728	15	149	2.664	107.2	41.09	3.372	101.6	33.89	4.137	96.3	23.15	29.01	27.6	26.75	-1.402	-2.254	29.19	9.29	1156	892	0
05/29/2014 10:45	66729	15	149	3.025	110.8	31.78	3.898	106	28.21	4.71	101.9	18.15	29.59	28.16	27.16	-1.435	-2.432	26.79	8.52	1212	892	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/29/2014 11:00	66730	15	149	3.121	77.79	31.82	3.832	72.4	29.54	4.419	68.81	25.42	29.73	28.3	27.34	-1.435	-2.386	26.48	8.46	1231	892	0
05/29/2014 11:15	66731	15	149	2.911	104.5	32.61	3.744	96	19.39	4.363	92.7	16.64	29.81	28.41	27.47	-1.398	-2.336	25.81	8.15	1269	892	0
05/29/2014 11:30	66732	15	149	2.771	74.22	43.17	3.527	71.95	35.99	4.241	77.93	29.33	29.94	28.47	27.6	-1.468	-2.337	26.17	8.47	1139	891	0
05/29/2014 11:45	66733	15	149	2.928	59.48	29.91	3.67	54.88	26.39	4.416	57.93	23.21	30.28	28.94	27.95	-1.344	-2.336	25.04	8.11	1248	891	0
05/29/2014 12:00	66734	15	149	2.939	95.8	51.41	3.721	85.5	44.29	4.294	75.15	50.58	30.39	29.22	28.29	-1.167	-2.103	24.67	7.982	1039	891	0
05/29/2014 12:15	66735	15	149	2.542	73.37	56.58	3.133	71.8	42.04	3.581	61.19	21.2	30.01	28.86	28.01	-1.147	-2.004	25.01	7.863	955	891	0
05/29/2014 12:30	66736	15	149	2.57	34.64	62.44	3.226	28.52	65.47	3.766	35.07	47.36	29.98	29.05	28.29	-0.93	-1.687	25.2	7.935	1023	891	0
05/29/2014 12:45	66737	15	149	1.968	61.08	79.34	2.363	70.04	68.98	2.71	64.06	49.22	29.84	29.06	28.29	-0.778	-1.553	24.49	7.405	761	891	0
05/29/2014 13:00	66738	15	149	2.232	110.7	29.69	2.836	100.1	20.97	3.453	93	19.6	30.28	29.29	28.51	-0.986	-1.772	25.34	8.28	877	891	0
05/29/2014 13:15	66739	15	149	2.708	76.27	23.1	3.329	72.2	17.31	4.088	86.1	20.51	30.71	29.53	28.61	-1.177	-2.097	24.14	7.931	922	890	0
05/29/2014 13:30	66740	15	149	1.654	52.03	78.47	2.022	74.71	82.4	2.479	110.2	70.59	30.24	29.52	28.88	-0.726	-1.361	25.01	8.06	820	890	0
05/29/2014 13:45	66741	15	149	2.314	94.2	58.94	2.855	93.7	52.63	3.652	92.9	45.61	30.7	29.6	28.9	-1.099	-1.797	24.61	8.2	1166	890	0
05/29/2014 14:00	66742	15	149	3.26	74.71	20.72	3.978	71.65	17.78	4.508	73.38	15.28	31.43	30.09	29.22	-1.34	-2.211	22.6	7.565	1141	890	0
05/29/2014 14:15	66743	15	149	1.448	47.12	38.97	1.646	46.03	38.79	1.695	66.8	47.07	30.76	29.97	29.24	-0.787	-1.527	22.79	7.13	1065	890	0
05/29/2014 14:30	66744	15	149	2.131	81.1	64.14	2.529	62.9	57.22	3.03	58.01	48.65	31.35	30.57	29.8	-0.783	-1.553	21.72	6.918	839	889	0
05/29/2014 14:45	66745	15	149	3.632	90.4	29.81	4.699	87.5	27.53	5.312	85	16.81	32.07	30.75	29.77	-1.323	-2.308	21.07	7.072	963	889	0
05/29/2014 15:00	66746	15	149	3.057	83.8	28.3	3.792	77.72	21.51	4.407	77.79	12.7	32.07	30.8	29.8	-1.269	-2.267	20.58	6.724	962	889	0
05/29/2014 15:15	66747	15	149	2.147	23.39	36.98	2.596	29.27	33.69	2.983	32.35	25.71	31.76	30.75	29.97	-1.016	-1.79	20.52	6.432	933	889	0
05/29/2014 15:30	66748	15	149	3.213	61.32	29.86	4.097	59.55	25.79	4.749	62.21	17.94	32.15	31.13	30.17	-1.024	-1.985	20.29	6.583	757.3	889	0
05/29/2014 15:45	66749	15	149	2.789	51.95	25.95	3.778	48.42	20.44	4.469	46.47	16.4	31.71	30.82	30.09	-0.889	-1.616	20.79	6.573	541.2	889	0
05/29/2014 16:00	66750	15	149	2.808	100.8	31.33	3.717	95.4	25.98	4.242	89.2	23.04	31.39	30.74	30.03	-0.649	-1.356	20.74	6.275	374	889	0
05/29/2014 16:15	66751	15	149	3.309	52.6	18.67	4.595	48.16	13.1	5.111	46.34	9.35	31.49	30.68	29.96	-0.805	-1.522	20.99	6.537	449.7	889	0
05/29/2014 16:30	66752	15	149	2.364	57.24	34.41	3.187	52.78	32.26	3.595	50.03	25.99	31.22	30.64	29.98	-0.577	-1.243	21.25	6.492	342.5	889	0
05/29/2014 16:45	66753	15	149	2.194	52.74	40.48	2.894	57.13	35.24	3.404	61.69	26.02	31.5	30.83	30.19	-0.673	-1.316	21.14	6.644	546.7	889	0
05/29/2014 17:00	66754	15	149	2.448	55.31	19.23	3.248	51.12	14.88	3.722	54.41	15.31	31.52	30.84	30.21	-0.676	-1.309	21.07	6.614	452.6	889	0
05/29/2014 17:15	66755	15	149	3.107	65.1	22.5	4.243	61.16	19.23	5.034	59.73	14.9	31.56	30.95	30.17	-0.606	-1.384	21.13	6.689	394.9	889	0
05/29/2014 17:30	66756	15	149	2.412	80.4	17.72	3.187	73.75	16.31	4.063	71.64	13.15	31.18	30.75	30.12	-0.433	-1.059	21.31	6.5	273.1	889	0
05/29/2014 17:45	66757	15	149	2.483	75.8	15.81	3.191	73.81	12.36	3.669	72.78	12.87	30.96	30.61	30.03	-0.352	-0.93	21.57	6.493	255.4	889	0
05/29/2014 18:00	66758	15	149	2.934	94.9	14.16	3.869	90.2	11.22	4.434	86.2	10.25	30.82	30.55	30.03	-0.263	-0.782	21.81	6.536	205.7	889	0
05/29/2014 18:15	66759	15	149	2.951	100.5	21.4	4.185	96.8	19.61	5.261	96	17.22	30.23	30.23	29.8	0.004	-0.432	22.49	6.496	91.3	889	0
05/29/2014 18:30	66760	15	149	2.722	93.2	11.39	3.903	89.4	7.669	5.515	85.6	4.377	29.67	29.83	29.59	0.161	-0.078	23.32	6.552	54.63	889	0
05/29/2014 18:45	66761	15	149	2.59	99.7	12.37	4.068	94.7	9.47	5.597	91.5	6.989	29.28	29.59	29.48	0.313	0.198	23.84	6.548	34.19	889	0
05/29/2014 19:00	66762	15	149	2.398	99.9	10.36	3.813	95.6	6.586	5.984	93.1	3.095	28.62	29.12	29.24	0.491	0.612	24.92	6.64	10.13	889	0
05/29/2014 19:15	66763	15	149	2.227	108.1	10.6	3.859	103.4	6.088	6.335	98.9	3.123	27.84	28.57	28.97	0.73	1.127	26.11	6.662	1.626	889	0
05/29/2014 19:30	66764	15	149	2.22	108	10.42	3.819	103.6	5.864	6.641	99.4	2.876	27.36	28.07	28.58	0.714	1.223	26.56	6.495	1.178	890	0
05/29/2014 19:45	66765	15	149	2.34	110.7	10.16	4.032	105.8	5.507	7.279	100.5	2.583	26.78	27.55	28.29	0.767	1.503	27.49	6.506	1.224	890	0
05/29/2014 20:00	66766	15	149	2.395	112.9	10.2	4.132	108.6	5.303	7.507	104.1	2.862	26.29	27.05	27.75	0.754	1.461	28.37	6.543	1.269	890	0
05/29/2014 20:15	66767	15	149	2.933	110.4	11.47	4.72	106	6.45	8.47	103.7	2.167	26.23	26.79	27.65	0.566	1.419	28.54	6.576	1.404	890	0
05/29/2014 20:30	66768	15	149	2.356	119.1	12.83	4.124	114.6	7.996	7.296	114.2	3.89	25.64	26.36	27.08	0.717	1.431	29.44	6.523	1.321	890	0
05/29/2014 20:45	66769	15	149	2.144	116.3	12.02	3.974	111.7	7.035	7.485	116.3	4.121	24.95	25.77	26.97	0.814	2.02	31.04	6.694	1.378	890	0
05/29/2014 21:00	66770	15	149	2.311	117	10.56	4.157	114	4.907	7.506	118.9	1.942	24.78	25.56	26.52	0.773	1.742	32.16	7.063	1.296	890	0
05/29/2014 21:15	66771	15	149	2.177	123.7	9.81	3.857	118.4	5.481	7.729	123.9	1.858	24.32	25	26.19	0.68	1.873	33.5	7.255	1.249	890	0
05/29/2014 21:30	66772	15	149	2.045	123.4	10.04	3.795	120.3	4.913	7.506	125.3	1.9	23.94	24.68	25.79	0.736	1.847	34.95	7.546	1.232	890	0
05/29/2014 21:45	66773	15	149	2.41	124.9	10.67	4.093	121.3	6.219	7.613	123.2	3.05	24.19	24.78	25.49	0.591	1.296	35.5	7.996	1.535	890	0
05/29/2014 22:00	66774	15	149	2.743	127.2	11.04	4.314	123.2	6.644	7.619	123.8	3.931	24.49	24.97	25.39	0.475	0.896	35.84	8.4	1.381	891	0
05/29/2014 22:15	66775	15	149	2.894	130.6	10.88	4.479	126.1	6.702	7.443	126.2	3.903	24.51	24.95	25.2	0.436	0.692	36.72	8.77	1.223	891	0
05/29/2014 22:30	66776	15	149	2.914	137.7	11.73	4.478	132.1	7.527	7.45	130	4.359	24.39	24.81	25.04	0.419	0.649	37.86	9.12	1.45	891	0
05/29/2014 22:45	66777	15	149	2.884	137.6	11.62	4.525	131.8	7.491	7.626	130.5	4.145	24.13	24.59	24.83	0.462	0.701	39.32	9.45	1.332	891	0
05/29/2014 23:00	66778	15	149	2.941	135.7	10.95	4.581	130.8	6.994	7.87	129.3	3.804	23.9	24.35	24.62	0.447	0.721	40.56	9.71	1.444	891	0
05/29/2014 23:15	66779	15	149	2.925	136.4	10.25	4.561	131	6.213	7.458	129.7	3.279	23.58	24.04	24.31	0.459	0.731	41.73	9.85	1.381	891	0
05/29/2014 23:30	66780	15	149	2.688	130.6	10.79	4.475	126.5	6.712	7.729	127.9	3.431	23.2	23.7	24.08	0.498	0.879	43.04	9.97	1.333	891	0
05/29/2014 23:45	66781	15	149	3.085	130	11.33	4.74	125.5	7.05	8.03	126.8	3.764	23.06	23.5	23.87	0.438	0.806	43.93	10.15	1.373	891	0
05/30/2014 00:00	66782	15	150	3.041	127.9	11.11	4.772	124.5	6.642	7.962	125.6	3.683	22.87	23.3	23.62	0.429	0.754	45.09	10.36	1.411	891	0
05/30/2014 00:15	66783	15	150	3.045	129.1	11.41	4.791	124.5	6.833	7.94	126.5	3.816	22.69	23.11	23.41	0.414	0.719	46.09	10.53	1.438	891	0
05/30/2014 00:30	66784	15	150	3.25	131	11.85	5.053	126.6	7.055	8.17	128.1	4.333	22.54	22.94	23.17	0.401	0.624	47.17	10.74	1.433	890	0
05/30/2014 00:45	66785	15	150	3.468	131.6	11.16	5.206	126.7	7.259	8.38	127.4	4.406	22.46	22.8	22.98	0.344	0.523	47.66	10.82	1.392	890	0
05/30/2014 01:00	66786	15	150	3.168	127.1	10.99	5.049	123.1	6.778	8.03	124.5	4.295	22.18	22.57	22.75	0.381	0.562	48.6	10.86	1.323	890	0
05/30/2014 01:15	66787	15	150	2.865	127	11.63	4.611	122.8	6.568	7.731	125.8	3.721	21.86	22.26	22.56	0.396	0.7	49.63	10.88	1.092	890	0
05/30/2014 01:30	66788	15	150	2.699	131.1	11.6	4.226	125.9	7.742	7.637	129.5	5.088	21.6	22.03	22.46	0.43	0.858	50.8	10.99	1.243	890	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/30/2014 01:45	66789	15	150	2.642	135.3	11.44	4.18	131	7.37	7.462	132.2	4.469	21.58	21.98	22.29	0.394	0.706	51.5	11.18	1.432	890	0
05/30/2014 02:00	66790	15	150	2.546	125.6	11.95	4.19	121.9	6.807	7.268	126.3	4.264	21.32	21.75	22.07	0.434	0.753	52.43	11.2	1.478	890	0
05/30/2014 02:15	66791	15	150	2.544	125.9	11.39	4.077	123.6	6.966	7.283	127.3	4.214	21.18	21.56	21.98	0.388	0.799	53.25	11.31	1.341	890	0
05/30/2014 02:30	66792	15	150	2.332	132.3	11.96	3.897	127.1	7.959	6.893	130.1	4.847	21.03	21.46	21.87	0.424	0.831	54.15	11.43	1.279	890	0
05/30/2014 02:45	66793	15	150	2.386	137.7	11.98	3.833	131.9	7.281	6.701	134.3	3.927	20.94	21.34	21.65	0.395	0.705	54.84	11.54	1.298	890	0
05/30/2014 03:00	66794	15	150	2.491	129.8	11.4	3.891	125.1	7.307	6.956	130.8	4.27	21.07	21.3	21.57	0.235	0.507	54.9	11.67	1.227	890	0
05/30/2014 03:15	66795	15	150	2.39	127.8	11.13	3.811	123.6	7.048	6.68	128.1	4.247	21.03	21.29	21.49	0.253	0.456	55.2	11.72	1.149	891	0
05/30/2014 03:30	66796	15	150	2.266	128.2	11.62	3.684	124.2	7.128	6.457	128.3	4.268	20.97	21.23	21.42	0.251	0.445	55.84	11.84	1.041	891	0
05/30/2014 03:45	66797	15	150	2.337	132.8	11.49	3.723	127.6	7.264	6.197	132.1	4.528	20.98	21.28	21.47	0.298	0.488	56.16	11.93	1.109	891	0
05/30/2014 04:00	66798	15	150	2.064	138.3	11.17	3.438	132.4	7.413	5.762	136.1	4.961	20.94	21.29	21.48	0.346	0.538	56.72	12.05	1.311	891	0
05/30/2014 04:15	66799	15	150	1.207	141.2	11.61	2.236	135.1	7.286	4.428	141	5.094	20.76	21.18	21.41	0.421	0.643	57.32	12.04	1.046	891	0
05/30/2014 04:30	66800	15	150	0.712	152.2	16.43	1.682	148.2	11.05	3.719	157.8	7.739	20.43	21.18	21.55	0.754	1.119	58.69	12.09	0.836	891	0
05/30/2014 04:45	66801	15	150	1.213	141.1	10.49	2.681	142	6.214	4.191	152.7	5.372	19.81	21.1	21.52	1.296	1.716	61	12.09	1.605	891	0
05/30/2014 05:00	66802	15	150	1.502	147.4	9.31	3.108	141.7	4.608	5.282	152.5	3.807	19.94	20.88	21.61	0.943	1.666	61.49	12.34	6.261	891	0
05/30/2014 05:15	66803	15	150	2.005	132.9	12.29	3.621	130.3	8.74	5.84	145.5	4.215	20.45	20.88	21.61	0.43	1.158	59.44	12.3	20.5	891	0
05/30/2014 05:30	66804	15	150	1.641	136.8	12.96	2.703	129.9	8.42	5.169	145.3	4.96	20.7	20.84	21.41	0.14	0.717	58.65	12.33	60.13	891	0
05/30/2014 05:45	66805	15	150	1.696	131.1	11.72	2.618	125.8	7.194	5.059	143.5	3.004	21.07	21.03	21.37	-0.038	0.298	57.58	12.4	90.3	891	0
05/30/2014 06:00	66806	15	150	1.913	148.3	12.45	2.679	138.8	9.49	4.679	144.4	5.864	21.63	21.49	21.36	-0.135	-0.262	55.87	12.45	129.8	892	0
05/30/2014 06:15	66807	15	150	2.426	159	12.63	3.447	152.3	8.53	4.502	151	6.896	22.54	22.35	21.99	-0.189	-0.555	52.35	12.31	161	892	0
05/30/2014 06:30	66808	15	150	3.109	159.4	11.21	4.422	151.6	8.03	5.342	150.9	6.239	23.3	23.05	22.56	-0.25	-0.74	48.75	11.93	205.3	892	0
05/30/2014 06:45	66809	15	150	3.583	163.4	11.24	4.915	156.6	7.633	5.73	153.5	5.622	23.61	23.31	22.8	-0.302	-0.819	47.49	11.82	221.6	892	0
05/30/2014 07:00	66810	15	150	3.298	169.6	11.91	4.38	163.3	8.78	4.994	159.8	5.984	24.11	23.67	23.11	-0.444	-1.003	46.57	11.98	318.3	892	0
05/30/2014 07:15	66811	15	150	3.5	162.3	13.65	4.736	154.1	8.69	5.225	155.7	7.815	24.6	23.95	23.31	-0.644	-1.287	45.24	11.98	433.1	892	0
05/30/2014 07:30	66812	15	150	3.788	169	16.22	4.927	160.3	12.32	5.588	158.8	8.43	25.24	24.44	23.71	-0.796	-1.532	43.63	12.01	560.4	892	0
05/30/2014 07:45	66813	15	150	3.634	163.7	12.43	4.903	156.4	8.69	5.77	158	6.081	25.24	24.67	23.97	-0.577	-1.27	43.22	11.87	342.3	892	0
05/30/2014 08:00	66814	15	150	3.671	182.9	13.6	4.92	175.4	10.2	5.568	172.2	6.679	25.46	24.85	24.22	-0.601	-1.231	42.89	11.94	342.4	892	0
05/30/2014 08:15	66815	15	150	3.542	177.4	13.37	4.563	169.8	10.47	5.34	166.7	9.4	26.05	25.28	24.5	-0.776	-1.554	41.78	12.08	553.5	892	0
05/30/2014 08:30	66816	15	150	3.622	166.4	16.93	4.509	160.4	13.48	5.377	161.6	12.1	27.18	25.99	25.08	-1.193	-2.105	39.37	12.19	838	892	0
05/30/2014 08:45	66817	15	150	2.966	165.2	18.32	3.892	161.2	16.4	4.643	164.1	11.1	27.04	26.19	25.34	-0.849	-1.699	38.66	11.79	520.2	892	0
05/30/2014 09:00	66818	15	150	3.462	181.1	21.07	4.256	176.6	19.62	4.889	176.9	13.79	27.87	26.55	25.65	-1.317	-2.222	36.73	11.74	1058	892	0
05/30/2014 09:15	66819	15	150	3.13	181.8	20.88	3.872	178.9	17.19	4.529	178.2	15.72	27.93	26.8	25.92	-1.122	-2.002	35.7	11.37	821	892	0
05/30/2014 09:30	66820	15	150	3.213	213.2	18.6	4.195	206.3	15.72	4.944	202.2	14.95	27.4	26.7	26.02	-0.705	-1.382	35.35	10.76	373.8	892	0
05/30/2014 09:45	66821	15	150	2.636	161.8	29.89	3.465	154.9	27.37	4.014	152.1	26.13	27.74	27.08	26.39	-0.669	-1.356	34.21	10.56	446.2	892	0
05/30/2014 10:00	66822	15	150	2.565	146.6	33.06	3.307	139.7	28.54	3.878	139.5	24.74	28.16	27.29	26.49	-0.877	-1.677	32.76	10.29	644.5	892	0
05/30/2014 10:15	66823	15	150	2.821	134.6	41.02	3.625	130.2	34.23	4.09	125.3	31.39	29.14	27.96	27	-1.181	-2.147	30.3	9.94	1069	892	0
05/30/2014 10:30	66824	15	150	3.344	143	35.41	4.221	137.3	28.05	4.911	135.8	25.79	29.58	27.99	27.09	-1.591	-2.491	28.32	9.33	1221	892	0
05/30/2014 10:45	66825	15	150	2.434	166.4	40.8	2.963	157.5	39.59	3.7	149.1	25.38	29.3	28.2	27.43	-1.098	-1.869	29.13	9.51	1239	891	0
05/30/2014 11:00	66826	15	150	3.239	181.5	32.91	4.026	172.2	28.03	4.638	165.8	20.67	30.05	28.58	27.82	-1.468	-2.226	28.36	9.75	1218	891	0
05/30/2014 11:15	66827	15	150	2.722	182.3	36.03	3.404	172.5	29.9	3.982	166.3	21.94	30.27	28.93	28.04	-1.339	-2.237	28.29	9.91	1314	891	0
05/30/2014 11:30	66828	15	150	2.291	193.6	51.88	2.885	189.1	46.68	3.632	178.8	38.84	30.47	29.54	28.67	-0.929	-1.805	27.59	9.71	876	891	0
05/30/2014 11:45	66829	15	150	2.899	180.9	40.55	3.579	168.7	31.02	3.815	170.4	23.77	30.74	29.61	28.64	-1.134	-2.102	27.01	9.62	1135	891	0
05/30/2014 12:00	66830	15	150	2.653	237.7	85.3	3.283	243.9	82.4	3.775	210.1	66.78	31.23	29.89	28.75	-1.342	-2.476	26.07	9.5	1289	891	0
05/30/2014 12:15	66831	15	150	2.818	167.4	63.92	3.382	158.2	63.12	3.734	155.9	56.94	31.5	30.3	29.25	-1.194	-2.25	24.88	9.04	1282	891	0
05/30/2014 12:30	66832	15	150	1.918	202.6	50.18	2.267	201	56.32	2.604	195.8	45.14	31.03	30.16	29.33	-0.865	-1.698	25.81	9.19	1207	891	0
05/30/2014 12:45	66833	15	150	3.005	216.3	31.3	3.569	206	30.28	4.205	192.8	20.38	31.65	30.5	29.46	-1.147	-2.189	24.62	9.01	1271	890	0
05/30/2014 13:00	66834	15	150	2.497	123.7	75.56	3.024	124.6	71.82	3.499	130.8	66.19	31.86	30.86	30.14	-1.004	-1.727	24.05	8.83	999	890	0
05/30/2014 13:15	66835	15	150	2.426	154.7	29.16	3.086	154.7	23.8	3.671	162.1	19.15	31.53	30.53	29.81	-0.995	-1.716	23.73	8.36	652.1	890	0
05/30/2014 13:30	66836	15	150	1.978	192.3	69.57	2.361	185	64.29	2.797	171.6	45.38	31.71	30.88	30.08	-0.837	-1.638	23.2	8.18	835	890	0
05/30/2014 13:45	66837	15	150	2.525	137.5	57.52	3.09	131.5	53.96	3.76	120.8	26.32	32.26	31.15	30.24	-1.119	-2.023	22.63	8.27	976	890	0
05/30/2014 14:00	66838	15	150	2.245	132.1	34.91	2.834	124.1	26.48	3.406	120.8	21.66	32.3	31.35	30.62	-0.945	-1.678	21.97	7.871	865	890	0
05/30/2014 14:15	66839	15	150	3.632	190	27.13	4.497	184.2	27.54	5.227	183.3	22.3	32.32	31.35	30.46	-0.963	-1.859	22.14	7.997	695.2	889	0
05/30/2014 14:30	66840	15	150	2.736	210.2	30.29	3.224	203	26.65	3.727	194.5	19.37	32.88	31.65	30.75	-1.228	-2.136	21.13	7.779	1161	889	0
05/30/2014 14:45	66841	15	150	2.856	180.8	47.27	3.419	177.8	40.79	4.465	175.7	28.85	32.25	31.54	30.81	-0.715	-1.441	21.94	7.811	399.4	889	0
05/30/2014 15:00	66842	15	150	3.06	176.7	32.26	3.786	171.2	31.4	4.324	167.1	30.01	32.06	31.36	30.67	-0.698	-1.389	22.13	7.782	318	889	0
05/30/2014 15:15	66843	15	150	2.322	197.3	39.03	2.929	185.5	43.1	3.577	180.7	34.97	31.6	31.2	30.65	-0.403	-0.95	23.27	8.13	269.3	889	0
05/30/2014 15:30	66844	15	150	2.267	255.3	44.7	2.701	249.3	41.53	2.919	227.4	33.83	31.22	30.91	30.41	-0.317	-0.811	24.6	8.63	332	889	0
05/30/2014 15:45	66845	15	150	1.286	163	56.99	1.585	163	58.44	1.806	157.3	32.17	31.71	31.34	30.76	-0.365	-0.949	22.7	7.861	339.2	889	0
05/30/2014 16:00	66846	15	150	4.586	118	18.11	6.331	111.3	13.68	7.781	106.7	10.3	30.6	30.09	29.38	-0.503	-1.212	26.78	9.35	228	889	0
05/30/2014 16:15	66847	15	150	3.752	120.8	15.15	5.328	114.8	9.8	6.611	110.2	7.676	30.25	29.83	29.32	-0.417	-0.931	27.8	9.62	153.7	889	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/30/2014 16:30	66848	15	150	3.595	128	13.72	5.025	124.2	9.26	6.554	122.8	6.879	29.8	29.47	29	-0.33	-0.801	29.42	10.09	123.7	889	0
05/30/2014 16:45	66849	15	150	2.831	112.9	38.1	4.197	110.7	35.61	5.354	110.5	33.47	28.79	28.53	27.98	-0.256	-0.807	31.72	10.31	82	889	0
05/30/2014 17:00	66850	15	150	2.961	32.56	39.63	4.172	26.89	29.8	5.047	30.65	18.91	26.53	27.31	26.99	0.772	0.456	41.51	12.32	51.03	890	1.016
05/30/2014 17:15	66851	15	150	4.086	338.3	30.75	5.294	334.7	28.64	5.617	338.9	31.59	24.32	26.53	26.92	2.208	2.594	48.35	12.44	82	890	4.064
05/30/2014 17:30	66852	15	150	6.158	32.67	50.86	8.46	29.3	51.85	8.34	28.81	52.05	22.8	24.73	24.69	1.933	1.89	51.13	12.17	307.9	890	5.08
05/30/2014 17:45	66853	15	150	5.091	109	15.09	8.13	107.1	12.12	10.53	108.7	10.01	22.45	23.95	25.33	1.496	2.882	57.06	13.53	316.6	890	0.762
05/30/2014 18:00	66854	15	150	3.905	126.1	16.78	6.421	120.6	11.99	8.28	117.1	7.561	23.07	24.46	26.81	1.385	3.741	56.2	13.88	174.6	889	0
05/30/2014 18:15	66855	15	150	2.266	119	20.85	4.047	118.4	16.94	5.969	118.2	9.59	23.23	24.09	26.79	0.859	3.551	60.98	15.28	146.8	889	0
05/30/2014 18:30	66856	15	150	2.309	98	15.33	3.937	90.9	12.06	6.262	86.8	9.71	24.02	25.07	27.69	1.053	3.67	56.39	14.82	88.9	889	0
05/30/2014 18:45	66857	15	150	1.756	108.7	22.73	2.95	104.8	14.15	5.917	97.7	8.49	23.77	24.53	25.49	0.764	1.728	57.85	14.99	42.52	889	0
05/30/2014 19:00	66858	15	150	1.785	53.77	13.71	3.07	61.62	12.68	5.397	75.79	14.98	23.61	24.89	25.98	1.275	2.367	58.7	15.06	10.77	890	0
05/30/2014 19:15	66859	15	150	1.605	138.5	35.01	2.737	126.6	35.76	4.366	85.2	14.19	23.33	24.7	25.7	1.366	2.365	59.05	14.79	2.055	890	0
05/30/2014 19:30	66860	15	150	1.268	147.2	17.7	2.506	130.4	14.6	3.916	95.2	5.778	22.61	24.43	25.34	1.821	2.727	66.8	16.14	1.005	890	0
05/30/2014 19:45	66861	15	150	0.94	97.6	9.78	2.594	103.7	8.42	5.52	88.2	3.333	22.08	24.34	25.46	2.257	3.377	72.2	16.86	1.141	890	0
05/30/2014 20:00	66862	15	150	1.179	104.8	13.28	2.711	97.5	7.788	6.765	91	2.922	22.11	23.48	25.39	1.368	3.283	67.03	15.72	1.105	890	0
05/30/2014 20:15	66863	15	150	1.178	106.2	11.88	2.77	99.2	5.564	7.275	92.4	2.555	22.06	23.46	26.18	1.402	4.123	66.4	15.52	1.291	890	0
05/30/2014 20:30	66864	15	150	1.693	118	21.84	3.475	106.7	13.39	7.478	100.2	3.303	22	23.33	25.99	1.327	3.986	64.24	14.96	1.146	890	0
05/30/2014 20:45	66865	15	150	1.09	172.1	34.16	2.424	149.8	18.47	5.68	112	10.89	20.81	21.98	24.63	1.165	3.815	74.65	16.15	1.061	890	0
05/30/2014 21:00	66866	15	150	1.44	123.2	15.24	3.124	120.8	11.21	6.141	115.7	4.999	20.98	21.95	24.05	0.973	3.073	74.15	16.22	1.119	890	0
05/30/2014 21:15	66867	15	150	2.014	98.4	10.08	3.707	96.6	5.73	7.665	101.9	4.345	20.98	21.78	25.04	0.796	4.055	71.37	15.62	1.336	890	0
05/30/2014 21:30	66868	15	150	2.429	107.4	11.31	4.502	103.9	6.558	8.67	105.1	2.97	21.28	22.26	25.88	0.986	4.6	66.04	14.7	1.323	890	0
05/30/2014 21:45	66869	15	150	2.384	108.8	10.78	4.308	104	5.791	8.85	112.5	2.619	21.55	22.45	26.44	0.899	4.89	62.28	14.05	1.547	890	0
05/30/2014 22:00	66870	15	150	2.266	114	10.78	4.245	109.8	6.046	8.81	122.6	3.319	21.76	22.85	26.82	1.097	5.062	60.06	13.69	1.644	890	0
05/30/2014 22:15	66871	15	150	2.433	110.9	9.81	4.415	108.5	5.098	8.46	124.1	1.439	21.65	22.61	25.75	0.969	4.107	59.87	13.53	1.499	890	0
05/30/2014 22:30	66872	15	150	2.331	115.9	10.66	4.367	113.8	5.811	8.55	129.4	3.377	21.51	22.55	25.73	1.047	4.224	60.33	13.52	1.323	890	0
05/30/2014 22:45	66873	15	150	2.317	117.2	10.6	4.388	114.9	5.202	9.38	131.3	1.131	21.41	22.49	26.46	1.081	5.051	60.76	13.54	1.491	890	0
05/30/2014 23:00	66874	15	150	2.359	116.9	10.52	4.414	115	5.629	9.16	131.2	1.456	21.5	22.58	26.4	1.082	4.902	59.8	13.37	1.66	890	0
05/30/2014 23:15	66875	15	150	2.497	114.9	10.24	4.53	112	4.962	8.8	127.8	2.453	21.21	22.18	25.52	0.972	4.31	60.49	13.28	1.348	890	0
05/30/2014 23:30	66876	15	150	2.728	101.1	9.99	4.621	98.7	6.318	8.68	115.6	3.645	21.18	21.96	25	0.778	3.823	59.28	12.94	1.423	891	0
05/30/2014 23:45	66877	15	150	2.559	104.1	10.38	4.49	102.1	6.803	8.5	117.5	3.082	21.39	22.31	25.1	0.92	3.717	56.91	12.51	1.444	890	0
05/31/2014 00:00	66878	15	151	2.235	115.9	10.93	4.281	112.8	5.942	8.16	128.9	3.169	21.25	22.32	25.09	1.076	3.845	57.41	12.51	1.33	890	0
05/31/2014 00:15	66879	15	151	2.894	99.9	11.29	4.934	97.5	7.31	8.78	111.7	4.798	21.12	21.92	24.72	0.802	3.598	57.91	12.53	1.472	891	0
05/31/2014 00:30	66880	15	151	2.089	123.4	12.84	4.065	119.8	7.621	8.73	135.1	6.567	21.54	22.62	25.51	1.078	3.97	54.49	11.99	1.552	890	0
05/31/2014 00:45	66881	15	151	1.994	129.7	10.9	4.169	126.1	5.294	9.23	145.7	3.065	20.87	22.09	25.42	1.218	4.545	57.51	12.19	1.622	890	0
05/31/2014 01:00	66882	15	151	1.903	124.8	11.05	3.875	120.5	6.046	8.79	146.4	1.538	20.33	21.37	24.95	1.042	4.622	60.68	12.5	1.442	890	0
05/31/2014 01:15	66883	15	151	1.846	122	12.26	3.85	118.6	6.873	8.45	143.9	2.982	20.08	21.09	24.68	1.017	4.599	62.06	12.6	1.294	890	0
05/31/2014 01:30	66884	15	151	2.002	122.9	13.24	4.036	119.7	8.39	8.51	142.3	3.108	20.01	21.04	24.56	1.029	4.557	61.98	12.52	1.524	890	0
05/31/2014 01:45	66885	15	151	2.25	120.6	10.98	4.415	119	5.907	8.84	141.8	2.705	20.18	21.24	24.32	1.059	4.14	60.22	12.24	1.721	890	0
05/31/2014 02:00	66886	15	151	2.539	118.1	10.1	4.552	115.7	5.143	8.51	132.4	3.722	20.1	21.01	23.51	0.911	3.414	59.86	12.08	1.508	890	0
05/31/2014 02:15	66887	15	151	2.724	120.6	11.2	4.791	118.5	6.056	9.23	135.3	3.157	20.44	21.35	23.83	0.906	3.386	57.3	11.73	1.657	890	0
05/31/2014 02:30	66888	15	151	2.397	122.9	10.86	4.404	119.8	6.069	8.62	135.4	3.787	20.26	21.16	23.57	0.901	3.315	57.5	11.61	1.424	890	0
05/31/2014 02:45	66889	15	151	2.028	118.1	12.67	3.988	117	6.638	7.902	136.2	4.96	20.07	21.15	23.42	1.082	3.35	58.29	11.65	1.404	890	0
05/31/2014 03:00	66890	15	151	2.196	112	15.13	4.163	111.3	10.3	7.633	131.5	6.624	19.9	20.97	23.28	1.072	3.385	58.98	11.66	1.302	890	0
05/31/2014 03:15	66891	15	151	2.269	125	11.23	4.257	123	6.654	8.05	139.1	3.89	20.34	21.39	23.64	1.049	3.304	56.3	11.37	1.259	890	0
05/31/2014 03:30	66892	15	151	2.112	126.6	12.22	4.135	122.5	6.815	8.02	140.9	3.784	19.89	20.94	23.48	1.049	3.589	58.09	11.43	1.309	890	0
05/31/2014 03:45	66893	15	151	2.199	120	11.7	4.133	118.7	6.958	7.647	142.7	6.982	19.91	20.95	23.61	1.034	3.701	57.97	11.41	1.24	890	0
05/31/2014 04:00	66894	15	151	2.058	115.1	10.18	3.958	113.2	5.813	7.357	133.8	6.134	19.48	20.5	23.03	1.021	3.548	59.56	11.42	1.128	891	0
05/31/2014 04:15	66895	15	151	2.241	110.9	10.13	4.229	109.4	5.617	6.907	129.9	3.674	19.26	20.24	22.74	0.974	3.476	59.81	11.28	1.302	891	0
05/31/2014 04:30	66896	15	151	2.481	96.5	10.39	4.433	97.2	6.301	7.195	119.9	6.101	19.23	20.13	22.78	0.894	3.548	59.61	11.2	1.295	891	0
05/31/2014 04:45	66897	15	151	2.479	109.2	11.6	4.438	107.8	6.675	7.384	124.9	4.678	19.59	20.6	23.06	1.013	3.466	58.25	11.18	1.976	891	0
05/31/2014 05:00	66898	15	151	2.407	116.5	10.44	4.391	113.7	5.102	7.596	130.1	5.956	19.73	20.7	23.19	0.967	3.457	57.25	11.05	7.005	891	0
05/31/2014 05:15	66899	15	151	2.559	116.4	10.9	4.616	111.7	5.772	7.522	126.4	8.52	19.78	20.67	22.85	0.891	3.071	57.25	11.1	20.23	891	0
05/31/2014 05:30	66900	15	151	2.92	106.2	10.63	4.977	104.4	6.047	8.04	120.5	6.34	19.87	20.59	22.92	0.723	3.057	57.26	11.18	36.76	891	0
05/31/2014 05:45	66901	15	151	3.469	104	10.05	5.341	101.2	6.408	8.98	113.3	3.486	19.81	20.31	22.53	0.505	2.723	57.19	11.11	52.17	891	0
05/31/2014 06:00	66902	15	151	3.564	108.8	10.94	5.623	103.4	6.596	9.5	112.9	2.561	20.29	20.67	22.43	0.384	2.148	55.88	11.21	113.4	891	0
05/31/2014 06:15	66903	15	151	3.68	114	11.64	5.437	110.3	7.465	9.16	115.8	2.909	21.2	21.29	22.28	0.095	1.085	53.61	11.43	230.2	891	0
05/31/2014 06:30	66904	15	151	3.844	115.5	11.07	5.474	112.2	7.082	8.71	117.1	3.368	21.64	21.61	22.08	-0.028	0.438	52.86	11.63	298.2	891	0
05/31/2014 06:45	66905	15	151	3.458	121.7	12.09	5.056	116.3	7.813	7.897	118.5	4.724	22.56	22.43	22.36	-0.137	-0.202	51.1	11.97	364.2	891	0
05/31/2014 07:00	66906	15	151	4.01	126.8	13.39	5.904	121.4	7.925	8.07	122.9	4.913	23.52	23.33	23.1	-0.193	-0.422	48.25	11.97	449.3	891	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/31/2014 07:15	66907	15	151	3.767	126.8	12.73	5.365	122.1	8.49	7.076	120.7	6.014	24.62	24.37	23.85	-0.258	-0.778	45.26	12.01	514.9	891	0
05/31/2014 07:30	66908	15	151	3.782	131.2	14.08	5.215	127.5	9.18	6.581	123.4	6.741	25.33	24.99	24.43	-0.335	-0.895	43.01	11.87	560.7	891	0
05/31/2014 07:45	66909	15	151	3.772	137.1	13.37	5.301	130.1	8.53	6.205	126.1	6.221	25.96	25.54	24.97	-0.416	-0.99	41.07	11.74	617.8	891	0
05/31/2014 08:00	66910	15	151	3.795	146.5	15.29	5.166	139.4	11.39	5.952	133.3	6.989	26.58	26.09	25.46	-0.486	-1.12	39.22	11.6	682.3	892	0
05/31/2014 08:15	66911	15	151	3.839	148.1	15.06	5.212	142.2	10.76	6.267	140	8.16	27.05	26.49	25.78	-0.569	-1.273	38.31	11.66	748.1	891	0
05/31/2014 08:30	66912	15	151	3.971	150.5	14.79	5.358	144.2	11.05	6.578	141	7.511	27.55	26.9	26.12	-0.651	-1.431	37.38	11.73	803	892	0
05/31/2014 08:45	66913	15	151	4.054	163.7	13.66	5.348	156.6	10.52	6.273	151.2	6.972	28.08	27.34	26.59	-0.742	-1.496	35.77	11.54	872	892	0
05/31/2014 09:00	66914	15	151	3.846	157.8	14.14	5.345	152.1	8.94	6.131	150.4	5.444	28.12	27.49	26.86	-0.627	-1.255	35.23	11.34	727.7	891	0
05/31/2014 09:15	66915	15	151	3.856	165	15.03	5.107	158.4	12.76	5.879	153	10.81	28.87	28.08	27.4	-0.787	-1.467	33.49	11.23	906	891	0
05/31/2014 09:30	66916	15	151	4.196	151.4	14.66	5.802	143.9	9.58	6.697	142.8	8.28	29.51	28.58	27.85	-0.926	-1.655	32.05	11.12	1007	891	0
05/31/2014 09:45	66917	15	151	4.119	155.4	12.95	5.47	150.8	10.79	6.342	151.4	9	29.99	29.04	28.24	-0.949	-1.747	30.28	10.68	1065	891	0
05/31/2014 10:00	66918	15	151	4.113	172.6	19.61	5.355	166.4	16.02	6.282	163.6	13.79	30.57	29.58	28.64	-0.993	-1.932	28.13	10.08	1133	891	0
05/31/2014 10:15	66919	15	151	3.753	183.7	17.88	4.75	178.3	15.74	5.564	173.6	11.99	30.89	29.96	29.13	-0.932	-1.758	27.22	9.86	1052	891	0
05/31/2014 10:30	66920	15	151	3.888	173	19.25	5.019	165.6	15.87	5.874	163.6	14.88	31.09	30.09	29.26	-1.004	-1.833	26.75	9.77	1076	891	0
05/31/2014 10:45	66921	15	151	3.303	167.3	21.41	4.22	160.6	18.68	5.172	155.2	16.78	31.46	30.49	29.65	-0.969	-1.807	25.8	9.54	1182	891	0
05/31/2014 11:00	66922	15	151	3.461	199.7	23.49	4.338	192.4	20.62	5.055	186.9	17	31.87	30.83	30	-1.041	-1.873	25.27	9.58	1197	891	0
05/31/2014 11:15	66923	15	151	3.018	189.8	22.54	3.828	184.3	19.76	4.415	175.6	17.48	32.37	31.16	30.36	-1.208	-2.011	24.44	9.5	1213	891	0
05/31/2014 11:30	66924	15	151	3.78	163.6	18.5	4.818	160.4	14.26	5.632	158	12.54	32.65	31.52	30.64	-1.129	-2.015	23.74	9.31	1225	890	0
05/31/2014 11:45	66925	15	151	3.014	200.3	38.5	3.684	195.3	32.43	4.4	192.4	30.09	32.81	31.96	31.13	-0.847	-1.678	23.16	9.08	1233	890	0
05/31/2014 12:00	66926	15	151	3.217	190.9	29.14	3.976	184.3	28.48	4.802	180.5	22.07	33.24	32.21	31.34	-1.033	-1.896	22.52	9.02	1234	890	0
05/31/2014 12:15	66927	15	151	2.334	246.4	34.85	2.924	238.7	28.96	3.171	222.8	26.04	33.08	32.26	31.59	-0.822	-1.492	21.84	8.43	1233	890	0
05/31/2014 12:30	66928	15	151	3.016	202	27.53	3.778	195	32.82	4.472	206.7	33.26	33.64	32.64	31.76	-1.005	-1.876	21.3	8.52	1233	890	0
05/31/2014 12:45	66929	15	151	3.096	162.6	25.2	4.07	156.6	23.27	4.797	158.8	19.6	34.12	33.02	32.06	-1.102	-2.061	20.88	8.63	1216	890	0
05/31/2014 13:00	66930	15	151	2.833	150.4	34.78	3.493	145	28.6	4.052	143.9	23.68	33.94	32.92	32.15	-1.017	-1.786	20.47	8.18	1203	889	0
05/31/2014 13:15	66931	15	151	2.815	187.5	18.93	3.486	181.4	16.44	4.105	179.8	13.21	34.49	33.4	32.52	-1.083	-1.967	19.67	8.04	1184	889	0
05/31/2014 13:30	66932	15	151	3.579	166.1	32.73	4.547	158.9	32.1	5.251	158.5	27.35	34.72	33.57	32.74	-1.145	-1.976	19.7	8.26	1166	889	0
05/31/2014 13:45	66933	15	151	2.823	183.5	29.86	3.572	173.3	19.28	3.956	162.2	16.37	34.66	33.6	32.8	-1.058	-1.856	19.24	7.859	1147	889	0
05/31/2014 14:00	66934	15	151	3.093	160.2	27.26	3.849	150.7	23.87	4.421	149.9	16.52	34.91	33.81	33.01	-1.093	-1.899	18.79	7.71	1112	889	0
05/31/2014 14:15	66935	15	151	2.278	133.7	45.21	2.888	129.4	41.04	3.444	125.9	21.71	34.36	33.79	33.2	-0.565	-1.16	19	7.429	751.9	888	0
05/31/2014 14:30	66936	15	151	2.554	145.8	41.74	3.324	135	40.06	3.984	130.5	36.53	34.99	34.12	33.34	-0.873	-1.649	18.89	7.852	1023	888	0
05/31/2014 14:45	66937	15	151	3.162	132.3	40.81	4.041	129.6	37.96	4.537	131.5	38.87	35.28	34.43	33.57	-0.845	-1.71	17.97	7.361	1006	888	0
05/31/2014 15:00	66938	15	151	3.672	165.7	24.97	4.897	156.8	23.97	5.552	151.5	27.58	35.19	34.4	33.58	-0.787	-1.61	18.05	7.35	719	888	0
05/31/2014 15:15	66939	15	151	2.546	112	30.32	3.331	111.4	22.84	3.84	114.3	19.61	35.17	34.43	33.72	-0.737	-1.449	17.98	7.284	912	888	0
05/31/2014 15:30	66940	15	151	2.978	158.8	32.12	3.858	156.7	30.07	4.559	150.5	29.68	35.61	34.84	33.99	-0.764	-1.615	17.28	7.047	849	888	0
05/31/2014 15:45	66941	15	151	3.388	171.7	39.51	4.596	165.2	38.22	5.414	161.4	38.7	35.57	34.75	33.99	-0.826	-1.587	17.09	6.866	792.6	887	0
05/31/2014 16:00	66942	15	151	3.447	174.5	23.81	4.363	164.3	19.18	4.936	155.2	16.88	35.29	34.54	33.86	-0.754	-1.426	17.02	6.579	741.1	887	0
05/31/2014 16:15	66943	15	151	3.293	150.5	30.85	4.439	142.4	23.55	5.358	136.3	17.08	35.25	34.56	33.93	-0.683	-1.318	17.12	6.63	661.9	887	0
05/31/2014 16:30	66944	15	151	2.48	131.8	26.38	3.288	126.5	24.06	3.942	125.7	22.33	35.21	34.64	34.01	-0.57	-1.204	17.1	6.587	593.2	887	0
05/31/2014 16:45	66945	15	151	2.625	127.8	28.12	3.512	121.3	25.89	4.247	118.1	27.91	35.25	34.72	34.12	-0.522	-1.127	16.92	6.455	529.7	887	0
05/31/2014 17:00	66946	15	151	3.362	133.9	21.09	4.594	127.8	18.8	5.692	125.3	16.22	35.25	34.83	34.16	-0.418	-1.095	16.8	6.359	460.8	887	0
05/31/2014 17:15	66947	15	151	3.183	120.8	15.9	4.317	115.2	10.76	5.063	116	7.72	35.08	34.77	34.15	-0.311	-0.928	16.9	6.306	390.8	887	0
05/31/2014 17:30	66948	15	151	3.565	147.6	18.77	5.003	141.4	15.49	5.809	134.8	15.37	34.98	34.78	34.23	-0.2	-0.748	16.76	6.102	326.2	887	0
05/31/2014 17:45	66949	15	151	3.28	143	16.9	4.563	135.5	12.58	5.751	130.7	9.68	34.76	34.72	34.21	-0.038	-0.55	16.85	6.007	258.4	887	0
05/31/2014 18:00	66950	15	151	3.186	139.4	16.29	4.524	134.5	12.41	5.623	133.7	9.48	34.48	34.58	34.15	0.101	-0.332	17.01	5.919	195.3	887	0
05/31/2014 18:15	66951	15	151	3.421	147.4	12.22	5.144	143.2	8.16	6.824	139.2	6.207	33.93	34.2	33.87	0.273	-0.06	18.84	6.953	136.1	887	0
05/31/2014 18:30	66952	15	151	3.545	146.5	11.87	5.291	141.7	7.657	7.576	138.4	4.464	33.42	33.85	33.71	0.427	0.286	19.29	6.892	78.35	887	0
05/31/2014 18:45	66953	15	151	3.194	149.3	11.55	5.183	144.6	7.123	7.831	142.7	4.143	32.79	33.41	33.52	0.621	0.734	19.89	6.815	35.59	887	0
05/31/2014 19:00	66954	15	151	3.157	149.7	11.79	5.154	144.7	7.027	8.06	142.4	4.294	32.14	32.85	33.09	0.711	0.951	21.11	7.152	10.44	887	0
05/31/2014 19:15	66955	15	151	2.752	142.6	11.73	4.599	138.4	7.459	7.546	136.5	3.936	31.28	32.12	32.59	0.848	1.313	22.72	7.511	2.652	887	0
05/31/2014 19:30	66956	15	151	2.445	135.5	10.73	4.205	133.2	6.097	7.507	134.8	2.988	30.22	31.22	31.99	0.993	1.766	25.12	8.11	1.343	887	0
05/31/2014 19:45	66957	15	151	2.766	138.2	10.39	4.628	134.4	6.002	7.902	135	3.05	29.83	30.76	31.52	0.927	1.693	25.97	8.26	1.329	887	0
05/31/2014 20:00	66958	15	151	3.057	137.5	10.7	4.898	132.5	6.439	8.59	132.7	3.641	29.61	30.35	31.05	0.743	1.444	26.07	8.13	1.568	887	0
05/31/2014 20:15	66959	15	151	3.545	139.9	10.81	5.44	134.6	6.717	9.16	133.1	4.094	29.63	30.29	30.8	0.66	1.162	25.87	8.04	1.653	887	0
05/31/2014 20:30	66960	15	151	3.852	142	11.16	6.013	136.3	6.936	9.61	135.1	3.853	29.5	30.09	30.49	0.594	0.987	25.96	7.977	1.863	888	0
05/31/2014 20:45	66961	15	151	3.969	139.4	11.19	5.979	134.7	7.396	9.62	133.2	3.938	29.18	29.74	30.09	0.561	0.91	26.57	8.04	1.591	888	0
05/31/2014 21:00	66962	15	151	4.143	142.2	11.51	6.374	137.5	7.168	9.99	135.3	4.499	28.98	29.5	29.78	0.519	0.799	27.12	8.18	1.755	888	0
05/31/2014 21:15	66963	15	151	4.067	142.4	11.3	6.221	137.4	7.179	9.83	134.7	4.274	28.67	29.18	29.42	0.519	0.758	28.04	8.4	1.716	888	0
05/31/2014 21:30	66964	15	151	4.388	141	11.42	6.557	136	7.197	10.01	134.2	4.614	28.41	28.89	29.08	0.478	0.674	28.97	8.67	1.761	888	0
05/31/2014 21:45	66965	15	151	4.344	137.7	11.28	6.448	133	7.569	9.88	130.6	4.354	28.12	28.58	28.73	0.457	0.609	29.99	8.93	1.596	888	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
05/31/2014 22:00	66966	15	151	4.191	136.4	10.3	6.155	131.6	7.805	9.55	129.4	4.502	27.75	28.21	28.39	0.46	0.639	31.28	9.23	1.542	888	0
05/31/2014 22:15	66967	15	151	4.176	132.6	10.98	6.251	127.8	7.063	9.3	125.5	4.482	27.44	27.93	28.07	0.49	0.626	32.49	9.53	1.651	888	0
05/31/2014 22:30	66968	15	151	4.124	135.7	11.22	6.099	130.2	7.356	9.32	127.8	4.735	27.1	27.56	27.7	0.456	0.592	33.93	9.88	1.58	889	0
05/31/2014 22:45	66969	15	151	3.989	134.8	12.34	6.077	130.3	7.446	9.15	127.8	4.563	26.76	27.21	27.31	0.452	0.551	35.29	10.17	1.472	888	0
05/31/2014 23:00	66970	15	151	4.593	138.8	12.13	6.901	133	8.3	10.02	130.7	6.013	26.65	27.04	27.06	0.395	0.416	36.99	10.77	1.684	888	0
05/31/2014 23:15	66971	15	151	5.016	140.6	12.19	7.466	135.6	7.97	10.76	132.8	5.493	26.64	27	26.95	0.353	0.303	39	11.57	1.95	888	0
05/31/2014 23:30	66972	15	151	5.037	137.2	11.95	7.162	133.2	7.929	10.09	132.2	5.322	26.37	26.7	26.64	0.337	0.271	40.51	11.9	1.489	888	0
05/31/2014 23:45	66973	15	151	5.434	140.1	11.91	7.761	135.5	7.318	10.61	134.1	5.439	26.21	26.51	26.39	0.305	0.189	41.76	12.21	1.756	888	0
06/01/2014 00:00	66974	15	152	4.746	143	12.59	7.096	137.6	8.28	10.33	135.8	6.02	25.85	26.18	26.1	0.329	0.253	43.77	12.61	1.852	888	0
06/01/2014 00:15	66975	15	152	5.179	141.8	12	7.538	137	8.01	10.45	135	6.012	25.64	25.93	25.82	0.292	0.181	45.49	13.01	1.848	888	0
06/01/2014 00:30	66976	15	152	5.113	143.9	11.76	7.476	137.8	7.95	10.63	135.1	5.199	25.42	25.7	25.58	0.279	0.165	47.16	13.36	1.871	888	0
06/01/2014 00:45	66977	15	152	5.745	141.6	12.63	8.36	137.5	7.689	11.27	134.5	4.975	25.22	25.49	25.36	0.266	0.14	48.63	13.65	1.938	888	0
06/01/2014 01:00	66978	15	152	4.962	141	11.5	7.164	135.9	7.72	10.09	134.9	5.644	24.88	25.17	25.06	0.281	0.173	50.06	13.79	1.636	888	0
06/01/2014 01:15	66979	15	152	4.863	142.9	12.02	7.174	136.4	8.42	10.27	134.7	6.005	24.65	24.94	24.86	0.29	0.21	50.97	13.85	1.717	888	0
06/01/2014 01:30	66980	15	152	5.338	140.6	11.9	8.04	135.8	7.837	11.21	133.3	5.381	24.62	24.9	24.82	0.287	0.199	50.96	13.82	1.833	888	0
06/01/2014 01:45	66981	15	152	5.563	138.9	11.37	8.13	133.9	8.11	11.58	132.2	5.162	24.48	24.74	24.66	0.259	0.174	51.32	13.8	1.769	888	0
06/01/2014 02:00	66982	15	152	5.355	137.4	12.25	7.884	132.7	8.42	11.19	131.4	5.599	24.27	24.54	24.45	0.274	0.176	51.95	13.79	1.853	888	0
06/01/2014 02:15	66983	15	152	5.666	137.2	11.59	8.27	131.1	7.126	11.42	129.6	4.809	24.01	24.27	24.17	0.26	0.161	53.15	13.91	1.858	888	0
06/01/2014 02:30	66984	15	152	5.419	136.8	11.56	7.903	130.1	7.105	10.96	128.6	5.22	23.74	23.99	23.89	0.249	0.149	54.12	13.94	1.856	888	0
06/01/2014 02:45	66985	15	152	5.51	136.4	12.06	8.14	130.4	7.512	11.34	129.2	4.789	23.6	23.85	23.77	0.252	0.176	54.52	13.92	1.847	888	0
06/01/2014 03:00	66986	15	152	5.478	135	11.54	8.06	129.8	7.284	11.32	127.6	4.643	23.34	23.59	23.53	0.252	0.196	55.35	13.9	1.7	888	0
06/01/2014 03:15	66987	15	152	5.224	133.4	11.53	7.595	128.3	7.365	10.85	126.7	4.772	23.01	23.26	23.23	0.246	0.22	56.37	13.89	1.647	888	0
06/01/2014 03:30	66988	15	152	5.448	136.3	10.85	7.81	130	6.84	11.11	128.3	4.585	22.82	23.06	23.04	0.236	0.224	57.09	13.9	1.923	888	0
06/01/2014 03:45	66989	15	152	5.283	137.3	10.82	7.533	130.6	6.973	10.88	129.9	4.147	22.66	22.89	22.88	0.228	0.226	57.41	13.83	1.626	888	0
06/01/2014 04:00	66990	15	152	4.572	136	11.38	6.667	130.6	7.562	9.79	130	4.977	22.31	22.56	22.57	0.249	0.256	58.7	13.85	1.547	888	0
06/01/2014 04:15	66991	15	152	4.338	133.8	11.86	6.513	127.8	7.357	9.85	127	4.333	22.05	22.33	22.37	0.276	0.317	59.64	13.86	1.661	888	0
06/01/2014 04:30	66992	15	152	4.402	134.4	11.52	6.45	128.5	7.272	9.61	126.7	4.226	21.86	22.13	22.16	0.27	0.3	60.48	13.89	1.709	888	0
06/01/2014 04:45	66993	15	152	4.274	133.2	11.93	6.27	127.7	7.788	9.21	126.8	4.479	21.7	21.97	21.98	0.271	0.279	60.96	13.86	2.202	888	0
06/01/2014 05:00	66994	15	152	4.085	135.6	11.66	6.024	130.3	8.53	9.15	129.4	4.992	21.6	21.86	21.87	0.258	0.271	61.55	13.92	7.339	888	0
06/01/2014 05:15	66995	15	152	3.776	141.5	11.85	5.567	134.9	7.695	8.34	132.6	5.418	21.61	21.84	21.79	0.229	0.185	61.78	13.98	28.01	888	0
06/01/2014 05:30	66996	15	152	4.127	140.8	12.36	6.185	134.5	8.51	9.18	131.5	5.249	21.78	21.92	21.81	0.134	0.027	61.59	14.1	67.87	888	0
06/01/2014 05:45	66997	15	152	4.676	142.3	12.07	6.783	134.4	7.835	9.7	131.3	4.958	22.04	22.07	21.85	0.025	-0.197	61.15	14.23	118.6	888	0
06/01/2014 06:00	66998	15	152	4.728	145.7	12.93	6.811	138	8.7	9.42	134.4	5.747	22.43	22.35	22.02	-0.08	-0.411	60.18	14.35	176.3	888	0
06/01/2014 06:15	66999	15	152	4.39	145.7	12.57	6.476	138.9	8.52	8.8	134.9	5.989	22.94	22.75	22.3	-0.196	-0.64	58.83	14.48	238.6	888	0
06/01/2014 06:30	67000	15	152	4.904	146.4	12.58	7.041	140.1	7.549	8.66	137.6	5.58	23.55	23.25	22.78	-0.296	-0.766	56.83	14.51	302.4	889	0
06/01/2014 06:45	67001	15	152	5.096	149.8	12.29	7.358	143.6	8.17	9.16	140.1	5.425	24.31	23.94	23.43	-0.373	-0.879	53.97	14.42	367.5	889	0
06/01/2014 07:00	67002	15	152	5.215	151.7	11.91	7.484	144.6	7.716	9.09	142.3	5.461	24.94	24.49	23.88	-0.445	-1.059	51.52	14.28	432.8	889	0
06/01/2014 07:15	67003	15	152	5.266	157.3	10.61	7.292	150.8	7.458	8.4	146.5	4.776	25.46	24.91	24.3	-0.545	-1.154	49.74	14.21	498	889	0
06/01/2014 07:30	67004	15	152	5.019	159.5	11.69	6.964	152.8	7.971	8.17	147.5	5.139	26.22	25.52	24.84	-0.695	-1.377	48	14.36	562.4	889	0
06/01/2014 07:45	67005	15	152	5.009	157.6	12.81	6.919	150.3	8.5	8.12	147.2	5.285	27.07	26.34	25.59	-0.738	-1.486	45.35	14.26	625.2	889	0
06/01/2014 08:00	67006	15	152	4.551	157.2	13.17	6.307	150.2	9.47	7.584	148.9	6.436	28.07	27.27	26.46	-0.806	-1.617	41.86	13.93	688.5	889	0
06/01/2014 08:15	67007	15	152	4.587	160.4	14.1	6.23	154.6	11.36	7.45	153.7	8.02	28.83	27.97	27.18	-0.862	-1.648	38.34	13.25	751.6	889	0
06/01/2014 08:30	67008	15	152	4.92	180.7	13.23	6.45	174.2	9.82	7.651	174.2	7.368	29.73	28.79	27.97	-0.935	-1.752	34.32	12.34	808	888	0
06/01/2014 08:45	67009	15	152	4.968	194.1	14.65	6.553	188	11.64	7.544	183.9	9.59	30.55	29.56	28.69	-0.988	-1.858	31.1	11.57	866	888	0
06/01/2014 09:00	67010	15	152	4.751	182	15.57	6.191	177.1	13.92	7.7	176.8	11.13	31.18	30.15	29.13	-1.03	-2.045	29.92	11.53	919	888	0
06/01/2014 09:15	67011	15	152	4.205	195.4	17.23	5.465	188.9	14.77	6.558	185.3	11.44	31.82	30.74	29.78	-1.074	-2.043	27.59	10.85	968	888	0
06/01/2014 09:30	67012	15	152	4.154	192.4	18.92	5.482	187.3	14.96	6.375	187.4	11.01	32.24	31.06	30.18	-1.18	-2.061	26.67	10.7	1016	888	0
06/01/2014 09:45	67013	15	152	3.879	193.7	16.87	5.123	189.2	13.4	6.112	185.3	9.43	32.94	31.7	30.73	-1.245	-2.208	24.98	10.31	1058	888	0
06/01/2014 10:00	67014	15	152	3.938	189.4	15.75	5.105	182.4	13.28	6.051	178	10.78	33.28	32.1	31.26	-1.178	-2.025	23.66	9.78	1098	888	0
06/01/2014 10:15	67015	15	152	3.508	195.6	18.54	4.322	190.7	15.63	4.973	187.9	16.51	33.63	32.54	31.63	-1.093	-2.005	22.66	9.43	1135	888	0
06/01/2014 10:30	67016	15	152	3.46	211.7	18.94	4.296	206.6	17.1	5.087	200.9	13.71	34.06	32.96	32.02	-1.098	-2.04	21.21	8.8	1164	888	0
06/01/2014 10:45	67017	15	152	3.068	191.5	23.65	3.842	183.6	21.1	4.693	181.4	18.5	34.69	33.53	32.55	-1.16	-2.139	20.2	8.6	1190	888	0
06/01/2014 11:00	67018	15	152	2.502	217.4	40.66	3.25	202.5	37.77	3.837	203.4	29.07	35.29	34.33	33.35	-0.959	-1.935	18.26	7.598	1212	888	0
06/01/2014 11:15	67019	15	152	2.949	213.2	25.15	3.607	208.6	24.18	4.084	202.3	22.64	35.47	34.41	33.59	-1.053	-1.88	16.65	6.382	1234	888	0
06/01/2014 11:30	67020	15	152	1.826	226.1	65.73	2.194	212.2	55.96	2.414	207.8	54.69	35.64	34.94	34.18	-0.7	-1.465	15.27	5.287	1250	887	0
06/01/2014 11:45	67021	15	152	1.775	168.3	87.8	2.15	156	81.3	2.356	173	75.66	35.68	34.85	34.19	-0.83	-1.491	16.45	6.393	1252	887	0
06/01/2014 12:00	67022	15	152	2.814	256.6	22	3.766	253.4	19.73	4.343	246.5	12.52	36.62	35.51	34.58	-1.114	-2.045	13.98	4.775	1258	887	0
06/01/2014 12:15	67023	15	152	2.128	213	61.75	2.591	220.9	60.36	2.934	221	48.91	36.67	35.98	35.1	-0.694	-1.574	13.42	4.242	1258	887	0
06/01/2014 12:30	67024	15	152	2.775	252.2	19.89	3.507	246.3	16.59	3.978	242.7	14.47	36.94	36.02	35.13	-0.926	-1.816	13.64	4.685	1248	886	0

WIPP Validated Metdata May- 19-14 to June-1-14

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
06/01/2014 12:45	67025	15	152	2.518	173.3	65.11	3.274	160.8	57.38	3.912	162.9	52.04	37.37	36.36	35.46	-1.016	-1.918	13.18	4.531	1236	886	0
06/01/2014 13:00	67026	15	152	2.464	212.8	41.26	2.984	203.1	38.87	3.541	189.4	30.09	37.36	36.57	35.86	-0.783	-1.492	12.88	4.183	1221	886	0
06/01/2014 13:15	67027	15	152	2.935	250.4	21.87	3.863	242.1	20.69	4.372	231.2	16.95	37.85	36.81	36.02	-1.035	-1.824	11.62	3.098	1210	886	0
06/01/2014 13:30	67028	15	152	2.07	315.5	63.11	2.392	320.4	56.51	2.253	303.5	60.73	37.77	37.02	36.28	-0.75	-1.49	11.07	2.367	1183	886	0
06/01/2014 13:45	67029	15	152	1.741	211.4	55.02	2.089	198.1	45.79	2.452	192.7	31.29	37.91	37.45	36.64	-0.462	-1.272	10.8	2.121	1163	885	0
06/01/2014 14:00	67030	15	152	2.189	227.9	49.05	2.556	218.3	37.98	3.273	213.7	29.51	38.29	37.63	36.84	-0.666	-1.451	10.69	2.271	1127	885	0
06/01/2014 14:15	67031	15	152	3.146	259.1	23.15	3.998	254.5	20.99	4.463	243.7	23.91	38.74	37.93	37.18	-0.813	-1.564	10.04	1.717	1106	885	0
06/01/2014 14:30	67032	15	152	3.14	254	23.3	4.235	246.1	23.09	5.231	241.9	18.46	39.13	38.23	37.29	-0.903	-1.84	9.93	1.864	1055	885	0
06/01/2014 14:45	67033	15	152	3.426	233.4	32.4	4.419	227.4	35.05	5.002	223.7	34.57	39.21	38.38	37.55	-0.824	-1.656	9.99	2.008	1011	884	0
06/01/2014 15:00	67034	15	152	2.391	261.3	35.29	2.959	257.1	36.62	3.629	247.2	28.22	38.91	38.31	37.56	-0.604	-1.348	9.91	1.666	973	884	0
06/01/2014 15:15	67035	15	152	2.76	240.8	32.1	3.616	237.6	24.01	4.315	236.6	18.46	39.08	38.5	37.7	-0.58	-1.374	10.25	2.273	822	884	0
06/01/2014 15:30	67036	15	152	3.621	234.4	20	4.706	227.9	18.67	5.829	222.4	11.27	39.28	38.55	37.74	-0.737	-1.538	9.99	2.052	877	884	0
06/01/2014 15:45	67037	15	152	2.329	251.5	35.99	2.968	249.9	33.57	3.342	241.9	25.41	39.47	38.9	38.15	-0.57	-1.323	9.96	2.159	826	884	0
06/01/2014 16:00	67038	15	152	3.035	217	25.86	3.93	217.9	22.79	4.566	221.2	17.31	39.47	38.87	38.14	-0.604	-1.334	10.02	2.25	771.5	884	0
06/01/2014 16:15	67039	15	152	2.472	228.7	45.08	3.061	228.8	39.23	3.768	230.8	24.71	39.44	39	38.3	-0.44	-1.139	9.98	2.169	702.1	884	0
06/01/2014 16:30	67040	15	152	2.793	230.7	34.85	3.583	228.1	33.09	4.228	238.9	35.31	39.11	38.74	38.14	-0.369	-0.971	9.74	1.578	639.5	883	0
06/01/2014 16:45	67041	15	152	3.842	272.1	15.7	5.319	268.7	13.74	6.424	264.4	11.73	39.25	38.72	38.04	-0.531	-1.214	9.34	1.096	564.1	884	0
06/01/2014 17:00	67042	15	152	4.192	275.3	17.4	5.818	273.5	15.35	7.116	266.2	11.31	39.15	38.76	38.07	-0.389	-1.077	9.13	0.697	487.5	884	0
06/01/2014 17:15	67043	15	152	3.279	259.9	14.03	4.737	257.5	10.99	5.599	253.3	10.11	38.81	38.52	37.95	-0.29	-0.866	9.15	0.475	417.7	884	0
06/01/2014 17:30	67044	15	152	3.813	267.4	13.35	5.595	264.4	11.17	6.887	259	8.44	38.69	38.52	37.93	-0.169	-0.758	9.12	0.336	350.8	884	0
06/01/2014 17:45	67045	15	152	2.997	256.6	15.02	4.575	255.2	12.71	5.802	250.3	10.74	38.31	38.33	37.86	0.024	-0.445	9.05	-0.054	277.4	884	0
06/01/2014 18:00	67046	15	152	3.144	248.2	13.19	4.26	247	10.26	5.465	242.7	8.21	38.05	38.25	37.83	0.199	-0.216	9.18	-0.039	206.2	884	0
06/01/2014 18:15	67047	15	152	2.307	239.7	11.59	3.164	239.3	9.4	4.062	236.7	7.774	37.64	38.12	37.79	0.484	0.154	8.94	-0.724	145.4	884	0
06/01/2014 18:30	67048	15	152	1.744	228.9	16	2.692	230.2	14.84	4.098	227.9	12.58	36.93	37.79	37.69	0.859	0.756	10	0.3	88.4	884	0
06/01/2014 18:45	67049	15	152	0.872	177.4	52.13	1.398	211.4	23.4	3.229	218.8	5.806	35.75	37.31	37.6	1.555	1.847	11.41	1.2	43.19	884	0
06/01/2014 19:00	67050	15	152	2.994	127.5	24.29	4.637	128.9	16.96	6.501	144.2	26.4	33.82	35.4	35.75	1.575	1.929	18.72	6.706	17.59	884	0
06/01/2014 19:15	67051	15	152	2.691	156	14.6	4.167	153.5	12.67	5.716	148.7	10.43	33.91	34.57	34.53	0.662	0.618	21.38	8.79	3.48	884	0
06/01/2014 19:30	67052	15	152	4.796	152.2	13.34	7.382	147.6	8.87	9.95	142.5	5.945	33.37	33.83	33.73	0.458	0.358	23.83	9.97	1.662	884	0
06/01/2014 19:45	67053	15	152	4.418	154	14.1	6.593	147.5	9.53	9.38	144.1	6.505	32.95	33.41	33.36	0.467	0.409	24.33	9.92	1.502	884	0
06/01/2014 20:00	67054	15	152	4.25	151.5	11.57	6.6	146.2	7.575	9.68	145.4	4.997	32.32	32.86	32.99	0.547	0.677	25.82	10.28	1.693	885	0
06/01/2014 20:15	67055	15	152	4.041	159	10.75	5.962	153.1	7.24	8.55	149.8	5.553	32.01	32.59	32.65	0.576	0.638	26.34	10.32	1.436	885	0
06/01/2014 20:30	67056	15	152	4.442	154.4	11.31	6.615	148.7	8.38	9.43	145.5	5.6	31.63	32.1	32.12	0.478	0.496	27.56	10.67	1.498	885	0
06/01/2014 20:45	67057	15	152	3.891	154.2	11.19	5.996	148.1	7.869	8.24	144.7	6.156	31.04	31.57	31.55	0.528	0.51	29.16	11.02	1.406	885	0
06/01/2014 21:00	67058	15	152	4.987	152.5	13.06	7.273	146.9	8.87	10.13	141.7	6.421	30.69	31.1	31.02	0.417	0.338	30.6	11.44	1.493	885	0
06/01/2014 21:15	67059	15	152	5.267	152.7	11.41	7.664	147.5	8.39	10.75	143.3	6.238	30.32	30.7	30.61	0.382	0.285	32.24	11.92	1.73	885	0
06/01/2014 21:30	67060	15	152	5.578	155.1	11.42	8.15	149.7	7.929	11.37	146.3	5.586	29.89	30.25	30.18	0.359	0.288	33.83	12.28	1.759	885	0
06/01/2014 21:45	67061	15	152	5.281	157	10.23	7.784	151.1	6.978	10.87	147.7	4.87	29.45	29.83	29.78	0.377	0.326	35.08	12.45	1.623	885	0
06/01/2014 22:00	67062	15	152	5.761	156.6	10.97	8.27	151.8	6.949	10.95	148.2	5.07	29.13	29.47	29.38	0.342	0.255	35.99	12.55	1.915	885	0
06/01/2014 22:15	67063	15	152	4.772	157.7	12.25	7.126	151.7	7.889	9.96	148.4	5.682	28.59	29	28.97	0.406	0.377	37.19	12.58	1.455	885	0
06/01/2014 22:30	67064	15	152	4.421	152.8	11.47	6.655	148.5	7.495	9.2	146.3	5.585	28.08	28.53	28.51	0.445	0.431	38.66	12.71	1.404	885	0
06/01/2014 22:45	67065	15	152	4.635	153.7	12.85	6.947	148.1	8.55	10.08	144.7	5.353	27.7	28.09	28.1	0.397	0.408	40.11	12.93	1.563	885	0
06/01/2014 23:00	67066	15	152	4.681	153.8	11.69	6.931	147.8	7.834	9.86	143.5	5.76	27.36	27.72	27.66	0.359	0.299	41.37	13.11	1.852	885	0
06/01/2014 23:15	67067	15	152	4.275	164.7	40.17	6.257	159.3	36.83	8.13	153.3	30.59	27.32	27.59	27.4	0.272	0.081	42.11	13.34	1.502	885	0
06/01/2014 23:30	67068	15	152	3.633	152.7	20.37	5.654	146.3	15.4	8.03	141.1	8.89	26.69	27.07	26.93	0.38	0.239	43.62	13.31	1.389	885	0
06/01/2014 23:45	67069	15	152	3.542	156.8	12.46	5.172	149.4	9.15	7.475	141.3	6.683	26.04	26.47	26.45	0.431	0.411	45.93	13.52	1.351	885	0
06/02/2014 00:00	67070	15	153	3.611	156	14.32	5.362	148.9	10.15	8.11	141	5.95	25.67	26.08	26.08	0.417	0.415	47.47	13.69	1.411	885	0

Environmental Monitoring & Hydrology Airborne Particulates Sampling

June 1, 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

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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)
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
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

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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 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
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

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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 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
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

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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)
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
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

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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)
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
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

Environmental Monitoring & Hydrology Airborne Particulates Sampling

June 1, 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-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

* 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 2/14/14.

[†] 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.

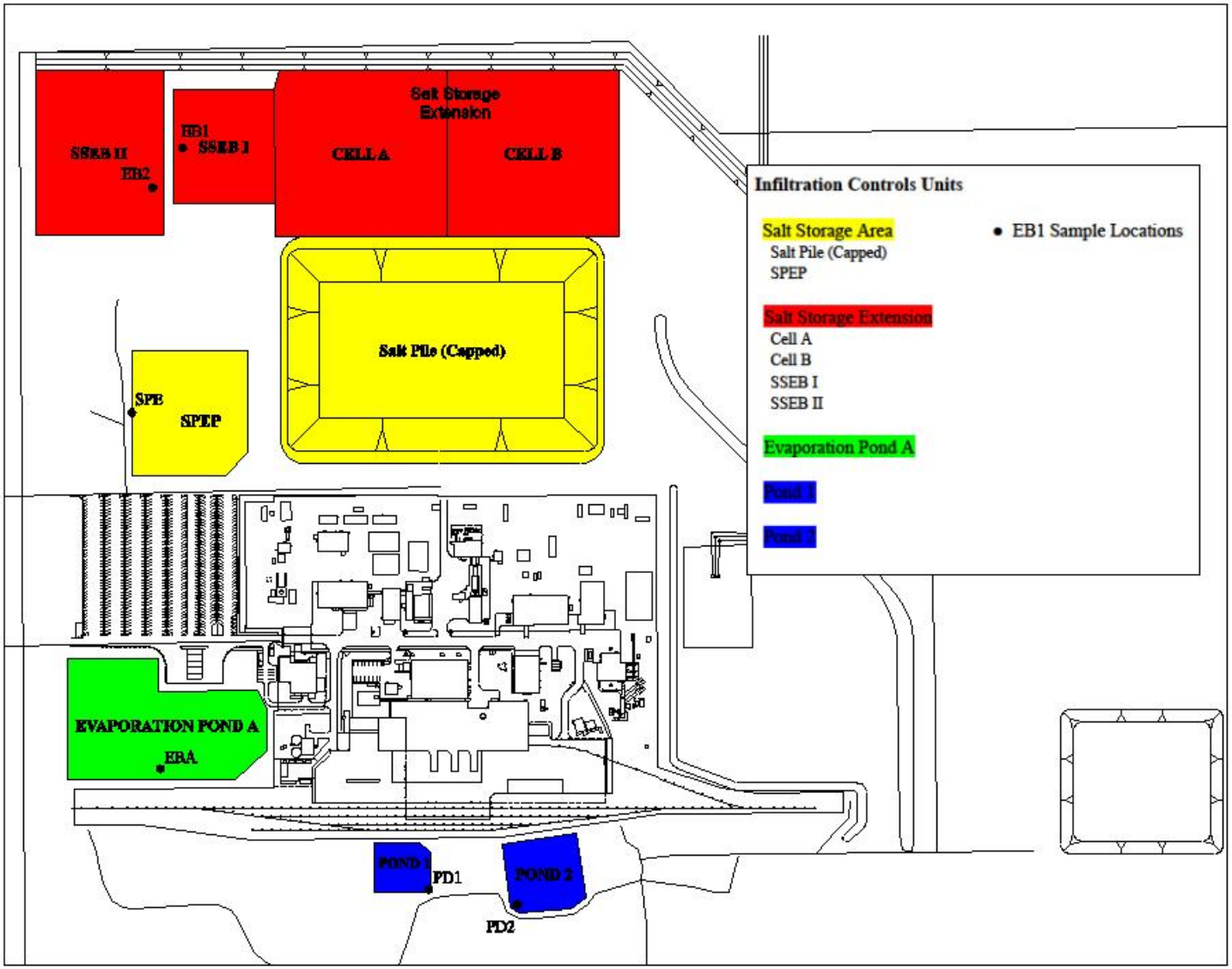
Note: Shaded cells in the table represent samples identified as a detectable concentration. Minimum detectable concentration (MDC) corresponds to the lowest concentration measurement that can be detected by the laboratory instrumentation.

MDC ranges are:

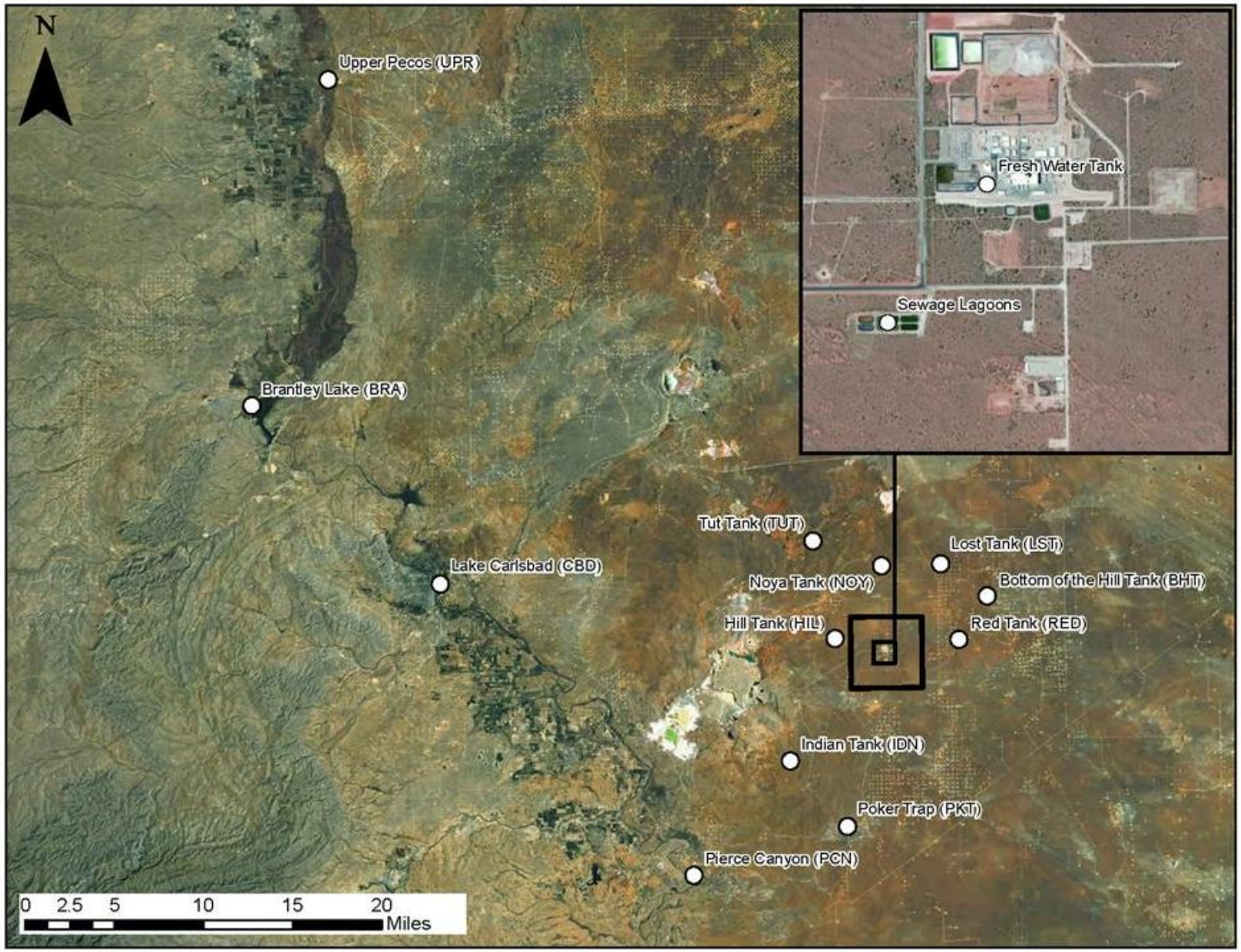
MDC Am-241 (dpm/sample): 1.89E-02 to 5.05E-01

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

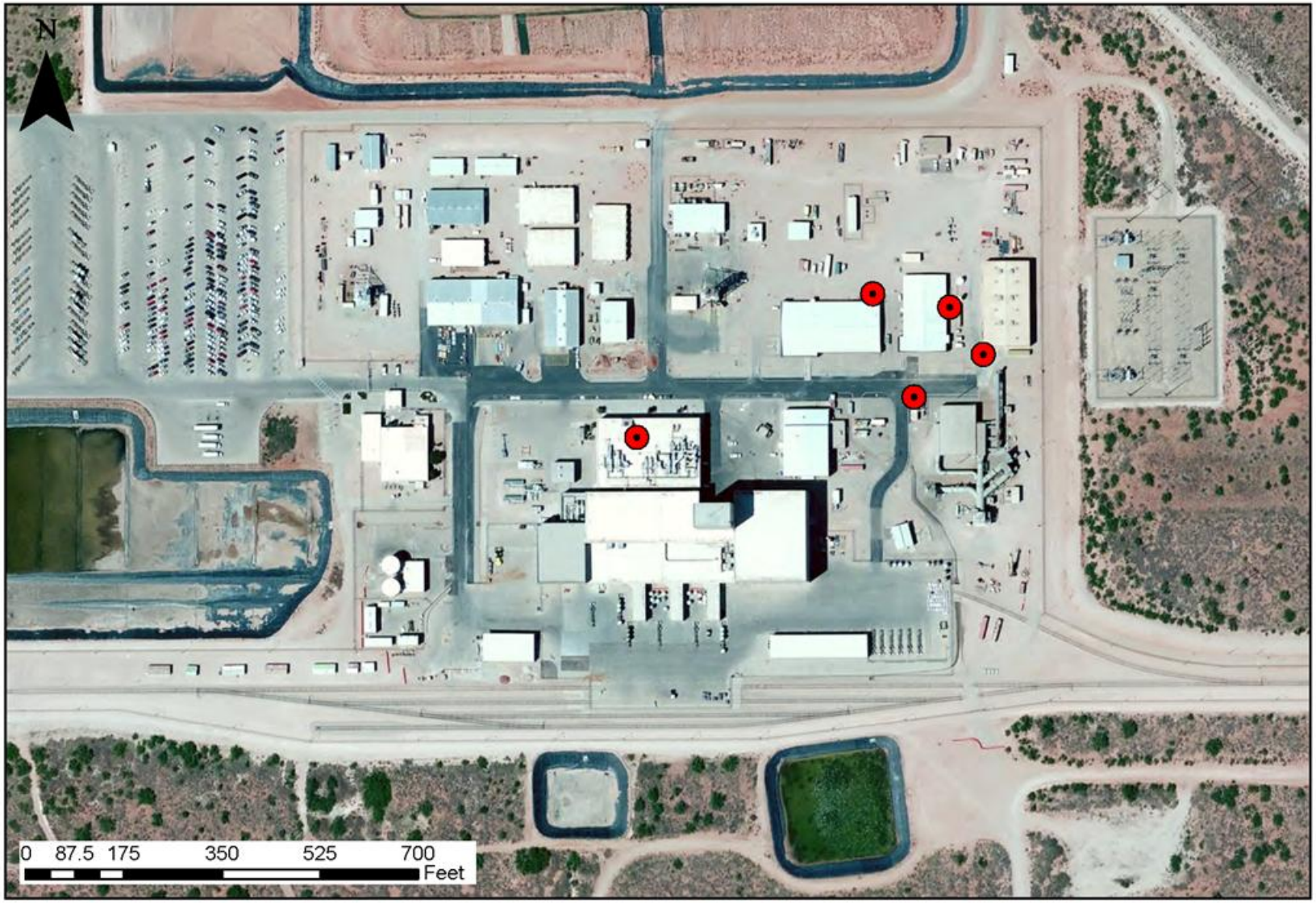
MDC Pu-239/240 (dpm/sample): 1.70E-02 to 5.94E-01



Surface Water Sample Locations

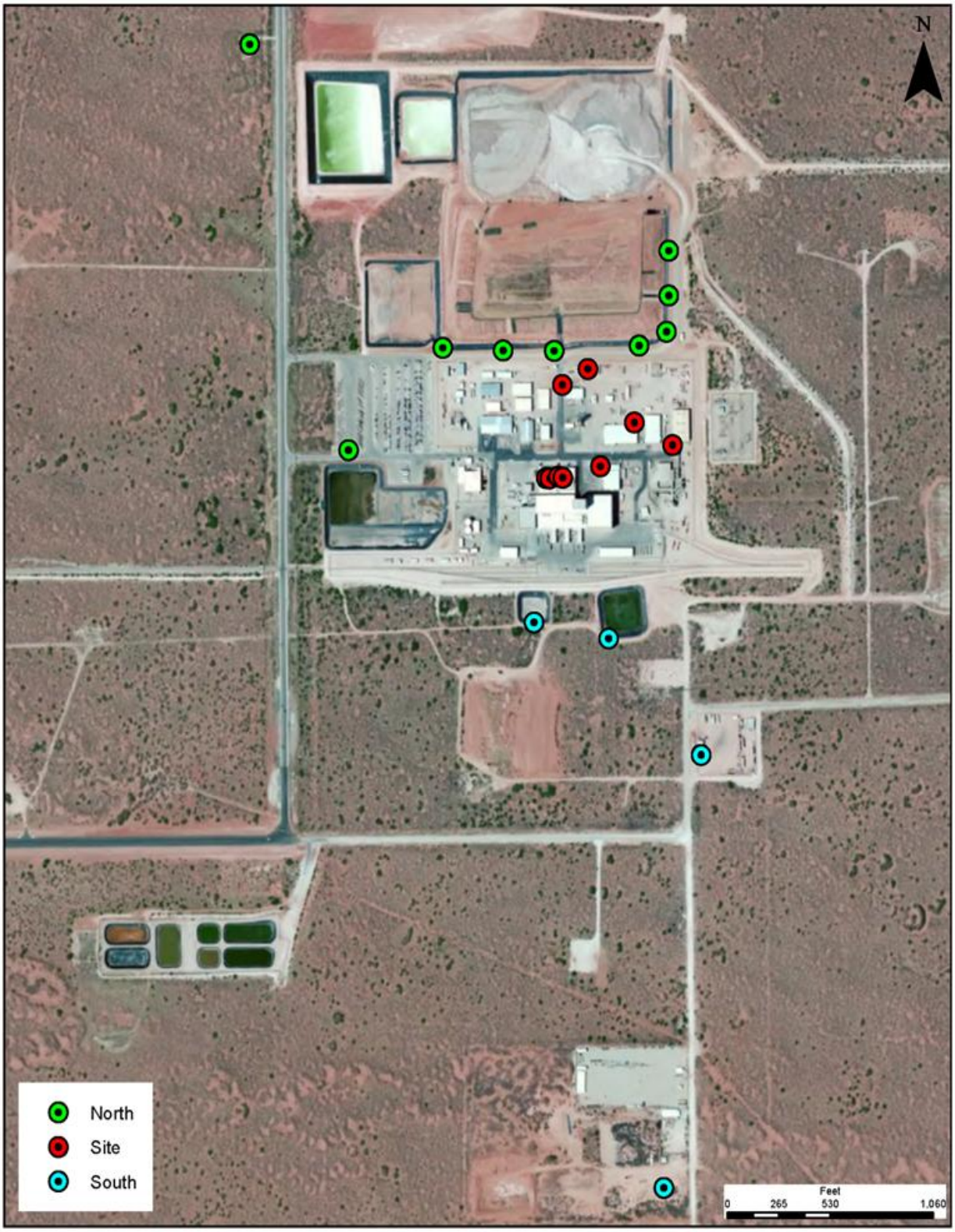


Surface Water Sample Locations (continued)



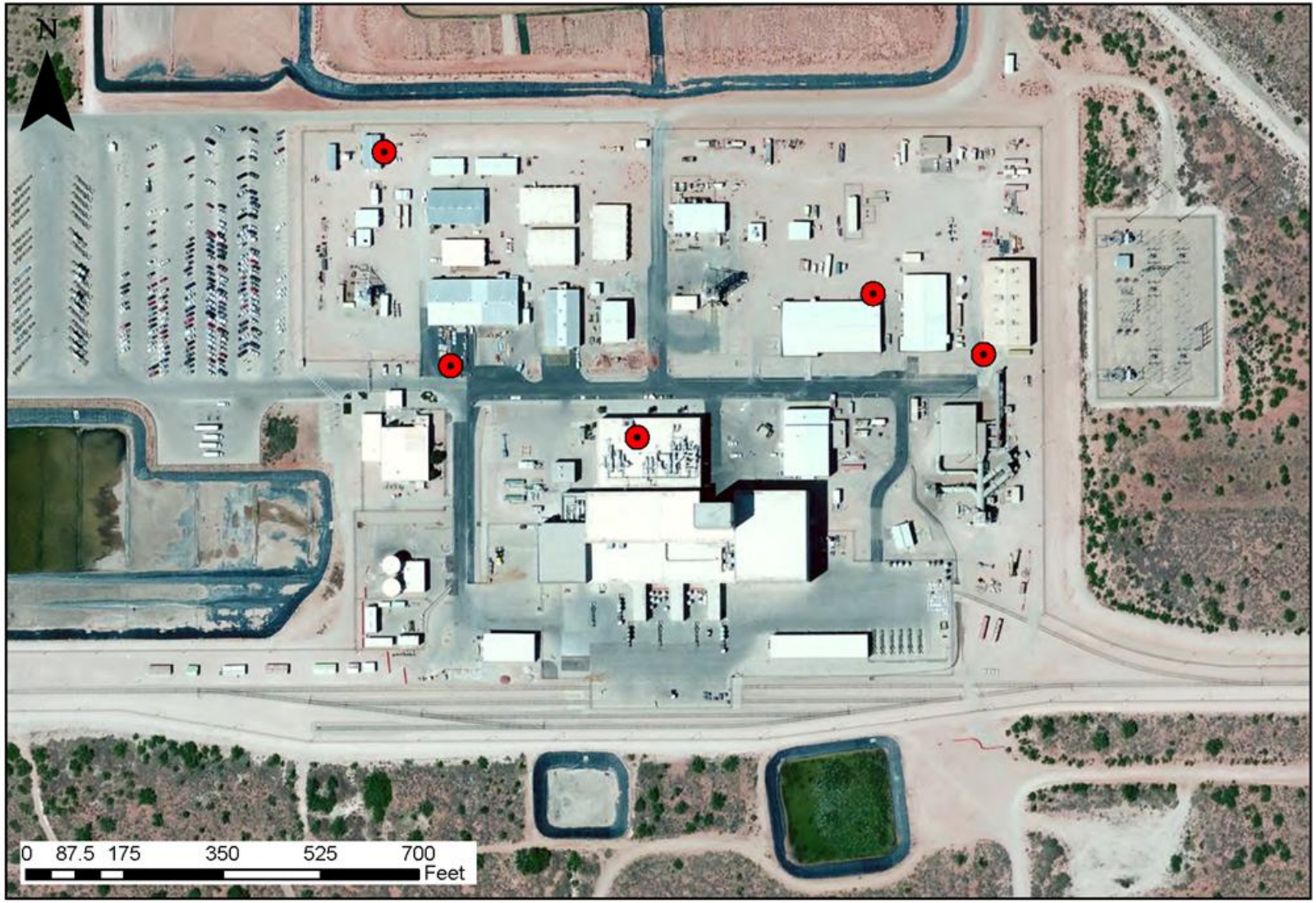
Surface Water Sample Locations (continued)

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 1, 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

* 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.

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:

Environmental Monitoring & Hydrology Surface Water Sampling

June 1, 2014

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

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

MDC Pu-238 (dpm/L): 3.30E-03 to 6.69E-02

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

Environmental Monitoring & Hydrology Sediment Sampling

June 1, 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

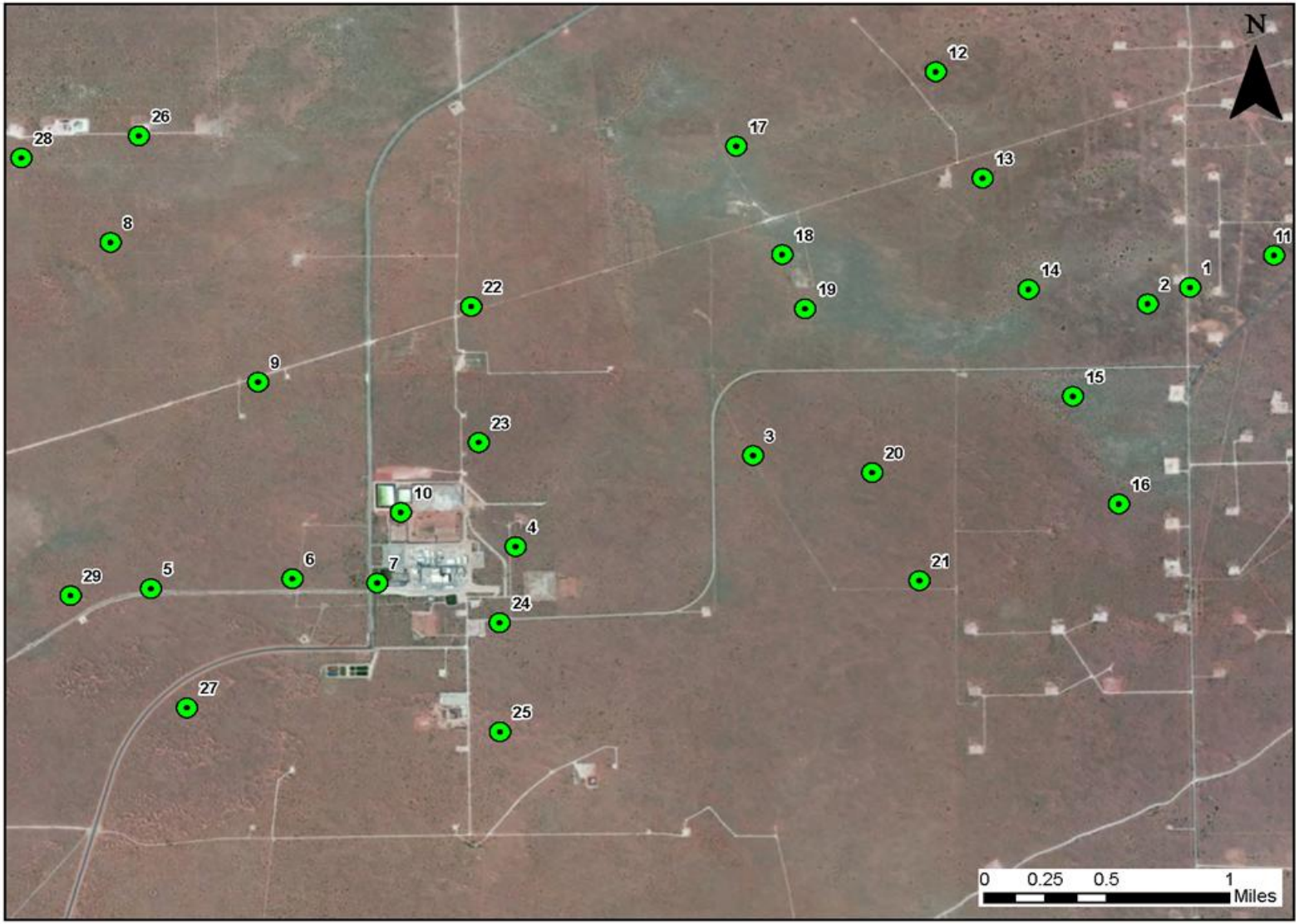
Note: Sediment sample locations are co-located with off-site surface water sample locations. Surface water samples are collected when water is available.

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 1, 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 - Vegetation

June 1, 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 - Vegetation

June 1, 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 1, 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 1, 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			
Mills Ranch Surface Sample (0-2 cm) (Duplicate)	SS-MLR-20140515-2.2	5/15/2014			

* 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.

Note: Shaded cells in the table represent samples identified as a detectable concentration. Blank cells in the table represent samples that have been taken and are undergoing analyses by WIPP Labs. 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.

Minimum detectable concentration (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 1, 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 Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/19/2014 0:00	2.34	0.53	0.93	0.95	1.79	0.61	1.20	1.18
5/19/2014 0:30	2.35	0.53	0.93	0.95	1.79	0.61	1.21	1.18
5/19/2014 1:00	2.35	0.53	0.93	0.96	1.79	0.61	1.20	1.18
5/19/2014 1:30	2.35	0.54	0.93	0.96	1.79	0.61	1.21	1.18
5/19/2014 2:00	2.35	0.54	0.93	0.96	1.79	0.61	1.21	1.18
5/19/2014 2:30	2.35	0.54	0.93	0.96	1.79	0.61	1.21	1.18
5/19/2014 3:00	2.35	0.54	0.93	0.96	1.79	0.61	1.20	1.18
5/19/2014 3:30	2.35	0.54	0.93	0.96	1.79	0.61	1.20	1.18
5/19/2014 4:00	2.34	0.54	0.94	0.96	1.79	0.61	1.21	1.18
5/19/2014 4:30	2.34	0.54	0.94	0.96	1.79	0.61	1.21	1.18
5/19/2014 5:00	2.33	0.54	0.94	0.96	1.79	0.61	1.21	1.18
5/19/2014 5:30	2.33	0.54	0.94	0.96	1.78	0.61	1.21	1.18
5/19/2014 6:00	2.32	0.54	0.94	0.96	1.78	0.61	1.21	1.18
5/19/2014 6:30	2.31	0.54	0.94	0.96	1.77	0.61	1.21	1.18
5/19/2014 7:00	2.30	0.54	0.94	0.97	1.77	0.61	1.21	1.18
5/19/2014 7:30	2.30	0.54	0.94	0.97	1.76	0.61	1.21	1.18
5/19/2014 8:00	2.29	0.54	0.94	0.97	1.75	0.61	1.20	1.18
5/19/2014 8:30	2.28	0.54	0.94	0.96	1.75	0.61	1.21	1.18
5/19/2014 9:00	2.28	0.54	0.94	0.96	1.74	0.61	1.21	1.18
5/19/2014 9:30	2.27	0.54	0.94	0.96	1.74	0.61	1.21	1.18
5/19/2014 10:00	2.27	0.54	0.94	0.96	1.74	0.61	1.20	1.17
5/19/2014 10:30	2.27	0.54	0.94	0.96	1.74	0.61	1.20	1.18
5/19/2014 11:00	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 11:30	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.18
5/19/2014 12:00	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 12:30	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 13:00	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 13:30	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 14:00	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 14:30	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 15:00	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 15:30	2.25	0.54	0.94	0.96	1.73	0.61	1.19	1.17
5/19/2014 16:00	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 16:30	2.26	0.54	0.93	0.96	1.73	0.61	1.20	1.17
5/19/2014 17:00	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 17:30	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 18:00	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 18:30	2.26	0.54	0.93	0.97	1.73	0.61	1.20	1.17
5/19/2014 19:00	2.26	0.54	0.93	0.96	1.73	0.61	1.20	1.17
5/19/2014 19:30	2.26	0.54	0.93	0.96	1.73	0.61	1.20	1.17
5/19/2014 20:00	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 20:30	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 21:00	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 21:30	2.26	0.54	0.94	0.96	1.73	0.61	1.20	1.17
5/19/2014 22:00	2.26	0.54	0.93	0.96	1.73	0.61	1.20	1.17
5/19/2014 22:30	2.27	0.54	0.93	0.96	1.73	0.62	1.20	1.17
5/19/2014 23:00	2.26	0.54	0.93	0.96	1.73	0.62	1.20	1.17
5/19/2014 23:30	2.27	0.54	0.94	0.96	1.73	0.62	1.20	1.17
5/20/2014 0:00	2.26	0.54	0.93	0.96	1.73	0.62	1.20	1.17
5/20/2014 0:30	2.27	0.54	0.93	0.96	1.73	0.62	1.20	1.17
5/20/2014 1:00	2.27	0.54	0.93	0.96	1.73	0.62	1.20	1.16
5/20/2014 1:30	2.27	0.54	0.93	0.96	1.74	0.62	1.20	1.17
5/20/2014 2:00	2.27	0.54	0.93	0.96	1.74	0.62	1.20	1.17
5/20/2014 2:30	2.27	0.54	0.93	0.96	1.74	0.62	1.20	1.17
5/20/2014 3:00	2.27	0.54	0.94	0.96	1.74	0.62	1.20	1.17
5/20/2014 3:30	2.28	0.54	0.94	0.96	1.74	0.62	1.20	1.18

Preliminary Data from Central Monitoring System

	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/20/2014 4:00	2.27	0.54	0.94	0.96	1.74	0.62	1.20	1.17
5/20/2014 4:30	2.28	0.54	0.94	0.96	1.74	0.62	1.20	1.18
5/20/2014 5:00	2.28	0.54	0.94	0.96	1.74	0.62	1.20	1.17
5/20/2014 5:30	2.27	0.54	0.94	0.96	1.74	0.62	1.20	1.18
5/20/2014 6:00	2.28	0.54	0.94	0.96	1.74	0.62	1.20	1.18
5/20/2014 6:30	2.27	0.54	0.95	0.96	1.74	0.62	1.20	1.18
5/20/2014 7:00	2.26	0.54	0.94	0.96	1.74	0.62	1.21	1.18
5/20/2014 7:30	2.26	0.54	0.95	0.97	1.73	0.62	1.21	1.18
5/20/2014 8:00	2.25	0.54	0.94	0.96	1.73	0.62	1.20	1.18
5/20/2014 8:30	2.25	0.54	0.95	0.96	1.72	0.62	1.20	1.18
5/20/2014 9:00	2.25	0.54	0.95	0.97	1.72	0.62	1.20	1.17
5/20/2014 9:30	2.24	0.54	0.95	0.97	1.72	0.62	1.20	1.17
5/20/2014 10:00	2.22	0.50	0.90	0.91	1.70	0.58	1.14	1.10
5/20/2014 10:30	2.24	0.54	0.94	0.96	1.72	0.61	1.20	1.17
5/20/2014 11:00	2.23	0.54	0.94	0.97	1.71	0.62	1.20	1.18
5/20/2014 11:30	2.24	0.54	0.94	0.96	1.71	0.62	1.20	1.18
5/20/2014 12:00	2.23	0.54	0.94	0.97	1.71	0.62	1.20	1.17
5/20/2014 12:30	2.23	0.54	0.94	0.96	1.71	0.62	1.20	1.17
5/20/2014 13:00	2.23	0.54	0.94	0.97	1.71	0.62	1.20	1.17
5/20/2014 13:30	2.23	0.54	0.94	0.96	1.70	0.62	1.20	1.17
5/20/2014 14:00	2.22	0.54	0.94	0.96	1.70	0.62	1.19	1.17
5/20/2014 14:30	2.22	0.54	0.94	0.96	1.70	0.62	1.20	1.17
5/20/2014 15:00	2.22	0.54	0.94	0.96	1.70	0.62	1.19	1.16
5/20/2014 15:30	2.22	0.54	0.94	0.96	1.70	0.62	1.19	1.17
5/20/2014 16:00	2.22	0.54	0.94	0.96	1.69	0.62	1.19	1.17
5/20/2014 16:30	2.22	0.54	0.93	0.96	1.70	0.62	1.20	1.17
5/20/2014 17:00	2.22	0.54	0.94	0.96	1.70	0.62	1.20	1.17
5/20/2014 17:30	2.22	0.54	0.94	0.96	1.70	0.62	1.20	1.17
5/20/2014 18:00	2.23	0.54	0.94	0.96	1.70	0.62	1.20	1.17
5/20/2014 18:30	2.23	0.54	0.94	0.96	1.70	0.62	1.20	1.17
5/20/2014 19:00	2.23	0.54	0.94	0.96	1.70	0.62	1.20	1.18
5/20/2014 19:30	2.23	0.54	0.94	0.96	1.70	0.62	1.20	1.17
5/20/2014 20:00	2.23	0.54	0.94	0.96	1.70	0.62	1.20	1.17
5/20/2014 20:30	2.23	0.54	0.94	0.96	1.71	0.62	1.20	1.17
5/20/2014 21:00	2.23	0.54	0.94	0.97	1.71	0.62	1.20	1.17
5/20/2014 21:30	2.24	0.54	0.94	0.97	1.71	0.62	1.20	1.17
5/20/2014 22:00	2.24	0.54	0.94	0.97	1.71	0.62	1.20	1.17
5/20/2014 22:30	2.24	0.54	0.94	0.97	1.71	0.62	1.20	1.18
5/20/2014 23:00	2.24	0.54	0.94	0.97	1.71	0.62	1.20	1.17
5/20/2014 23:30	2.24	0.54	0.94	0.96	1.71	0.62	1.20	1.17
5/21/2014 0:00	2.24	0.54	0.94	0.96	1.71	0.62	1.20	1.17
5/21/2014 0:30	2.24	0.54	0.94	0.96	1.71	0.62	1.20	1.17
5/21/2014 1:00	2.24	0.54	0.94	0.96	1.71	0.62	1.20	1.17
5/21/2014 1:30	2.24	0.54	0.94	0.96	1.71	0.62	1.20	1.17
5/21/2014 2:00	2.25	0.54	0.93	0.96	1.72	0.62	1.20	1.17
5/21/2014 2:30	2.25	0.54	0.93	0.96	1.72	0.62	1.20	1.17
5/21/2014 3:00	2.25	0.54	0.94	0.96	1.72	0.62	1.20	1.17
5/21/2014 3:30	2.25	0.54	0.94	0.97	1.72	0.62	1.20	1.17
5/21/2014 4:00	2.25	0.54	0.94	0.96	1.72	0.62	1.20	1.17
5/21/2014 4:30	2.25	0.54	0.94	0.96	1.72	0.62	1.20	1.17
5/21/2014 5:00	2.25	0.54	0.94	0.96	1.72	0.62	1.20	1.17
5/21/2014 5:30	2.26	0.54	0.94	0.96	1.73	0.62	1.20	1.17
5/21/2014 6:00	2.26	0.54	0.94	0.96	1.73	0.62	1.20	1.17
5/21/2014 6:30	2.26	0.54	0.94	0.96	1.73	0.62	1.20	1.17
5/21/2014 7:00	2.25	0.54	0.94	0.96	1.72	0.62	1.20	1.17
5/21/2014 7:30	2.25	0.54	0.94	0.96	1.73	0.62	1.20	1.17

Preliminary Data from Central Monitoring System

	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/21/2014 8:00	2.25	0.54	0.94	0.96	1.72	0.62	1.21	1.17
5/21/2014 8:30	2.25	0.54	0.95	0.97	1.72	0.62	1.20	1.18
5/21/2014 9:00	2.25	0.54	0.94	0.96	1.72	0.62	1.20	1.17
5/21/2014 9:30	2.24	0.54	0.94	0.96	1.72	0.62	1.20	1.17
5/21/2014 10:00	2.24	0.54	0.94	0.97	1.72	0.62	1.20	1.17
5/21/2014 10:30	2.24	0.54	0.94	0.97	1.71	0.62	1.20	1.17
5/21/2014 11:00	2.23	0.54	0.94	0.96	1.71	0.62	1.20	1.17
5/21/2014 11:30	2.23	0.54	0.94	0.96	1.71	0.62	1.20	1.17
5/21/2014 12:00	2.23	0.54	0.93	0.96	1.71	0.62	1.20	1.17
5/21/2014 12:30	2.23	0.54	0.94	0.96	1.71	0.61	1.20	1.16
5/21/2014 13:00	2.23	0.54	0.94	0.96	1.71	0.61	1.20	1.17
5/21/2014 13:30	2.23	0.54	0.94	0.96	1.71	0.61	1.20	1.17
5/21/2014 14:00	2.23	0.54	0.94	0.96	1.71	0.61	1.20	1.17
5/21/2014 14:30	2.24	0.54	0.94	0.96	1.71	0.61	1.20	1.17
5/21/2014 15:00	2.24	0.54	0.93	0.96	1.71	0.61	1.19	1.17
5/21/2014 15:30	2.24	0.54	0.93	0.96	1.71	0.61	1.20	1.17
5/21/2014 16:00	2.24	0.54	0.93	0.96	1.71	0.61	1.20	1.17
5/21/2014 16:30	2.24	0.54	0.93	0.96	1.71	0.61	1.20	1.17
5/21/2014 17:00	2.24	0.54	0.93	0.96	1.71	0.61	1.20	1.17
5/21/2014 17:30	2.24	0.54	0.93	0.96	1.72	0.61	1.20	1.17
5/21/2014 18:00	2.25	0.54	0.93	0.96	1.72	0.61	1.20	1.17
5/21/2014 18:30	2.25	0.54	0.93	0.96	1.72	0.61	1.20	1.17
5/21/2014 19:00	2.25	0.54	0.94	0.96	1.72	0.61	1.20	1.17
5/21/2014 19:30	2.25	0.54	0.94	0.96	1.72	0.61	1.20	1.17
5/21/2014 20:00	2.25	0.54	0.94	0.96	1.72	0.61	1.20	1.17
5/21/2014 20:30	2.25	0.54	0.94	0.96	1.72	0.61	1.20	1.17
5/21/2014 21:00	2.25	0.54	0.94	0.96	1.72	0.61	1.20	1.17
5/21/2014 21:30	2.24	0.54	0.94	0.96	1.72	0.61	1.19	1.17
5/21/2014 22:00	2.24	0.54	0.94	0.96	1.71	0.61	1.20	1.17
5/21/2014 22:30	2.23	0.54	0.94	0.96	1.71	0.61	1.20	1.17
5/21/2014 23:00	2.23	0.54	0.94	0.97	1.71	0.61	1.20	1.17
5/21/2014 23:30	2.22	0.54	0.94	0.97	1.71	0.61	1.20	1.17
5/22/2014 0:00	2.22	0.54	0.94	0.96	1.70	0.61	1.20	1.17
5/22/2014 0:30	2.21	0.54	0.94	0.97	1.70	0.61	1.20	1.17
5/22/2014 1:00	2.21	0.54	0.95	0.97	1.70	0.61	1.20	1.17
5/22/2014 1:30	2.20	0.54	0.95	0.97	1.69	0.61	1.20	1.17
5/22/2014 2:00	2.19	0.54	0.95	0.98	1.69	0.61	1.20	1.17
5/22/2014 2:30	2.18	0.54	0.95	0.98	1.68	0.61	1.20	1.17
5/22/2014 3:00	2.17	0.54	0.95	0.98	1.68	0.61	1.20	1.17
5/22/2014 3:30	2.16	0.54	0.95	0.98	1.67	0.61	1.20	1.17
5/22/2014 4:00	2.16	0.54	0.95	0.97	1.67	0.61	1.20	1.17
5/22/2014 4:30	2.15	0.54	0.95	0.98	1.66	0.61	1.20	1.17
5/22/2014 5:00	2.15	0.54	0.95	0.98	1.66	0.61	1.20	1.17
5/22/2014 5:30	2.15	0.54	0.96	0.98	1.66	0.61	1.20	1.17
5/22/2014 6:00	2.14	0.54	0.96	0.98	1.66	0.61	1.20	1.17
5/22/2014 6:30	2.15	0.54	0.96	0.98	1.66	0.61	1.20	1.17
5/22/2014 7:00	2.14	0.54	0.96	0.98	1.66	0.61	1.20	1.18
5/22/2014 7:30	2.13	0.54	0.96	0.98	1.65	0.61	1.20	1.17
5/22/2014 8:00	2.13	0.54	0.96	0.98	1.64	0.61	1.20	1.18
5/22/2014 8:30	2.12	0.54	0.96	0.98	1.64	0.61	1.20	1.18
5/22/2014 9:00	2.12	0.54	0.96	0.98	1.63	0.61	1.20	1.17
5/22/2014 9:30	2.11	0.54	0.96	0.98	1.63	0.61	1.20	1.17
5/22/2014 10:00	2.10	0.54	0.95	0.98	1.63	0.61	1.20	1.17
5/22/2014 10:30	2.10	0.54	0.95	0.98	1.62	0.61	1.20	1.17
5/22/2014 11:00	2.09	0.54	0.95	0.98	1.62	0.61	1.20	1.17
5/22/2014 11:30	2.09	0.54	0.96	0.98	1.61	0.61	1.20	1.17

Preliminary Data from Central Monitoring System

	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/22/2014 12:00	2.09	0.54	0.95	0.98	1.62	0.61	1.20	1.17
5/22/2014 12:30	2.10	0.54	0.96	0.98	1.62	0.61	1.20	1.17
5/22/2014 13:00	2.09	0.54	0.96	0.98	1.62	0.61	1.20	1.17
5/22/2014 13:30	2.10	0.54	0.96	0.99	1.62	0.61	1.20	1.17
5/22/2014 14:00	2.09	0.54	0.96	0.98	1.62	0.61	1.20	1.17
5/22/2014 14:30	2.10	0.54	0.96	0.98	1.62	0.61	1.20	1.17
5/22/2014 15:00	2.10	0.54	0.96	0.98	1.62	0.61	1.20	1.17
5/22/2014 15:30	2.11	0.54	0.96	0.98	1.63	0.61	1.20	1.17
5/22/2014 16:00	2.11	0.54	0.96	0.99	1.63	0.61	1.20	1.17
5/22/2014 16:30	2.11	0.54	0.96	0.98	1.63	0.61	1.20	1.17
5/22/2014 17:00	2.11	0.54	0.96	0.98	1.63	0.61	1.20	1.17
5/22/2014 17:30	2.12	0.54	0.96	0.98	1.64	0.61	1.20	1.17
5/22/2014 18:00	2.14	0.54	0.96	0.98	1.66	0.61	1.20	1.17
5/22/2014 18:30	2.14	0.54	0.96	0.98	1.66	0.61	1.20	1.18
5/22/2014 19:00	2.12	0.54	0.96	0.98	1.64	0.61	1.20	1.17
5/22/2014 19:30	2.13	0.54	0.96	0.99	1.64	0.61	1.20	1.17
5/22/2014 20:00	2.13	0.54	0.96	0.98	1.65	0.61	1.20	1.18
5/22/2014 20:30	2.14	0.54	0.96	0.98	1.66	0.61	1.20	1.18
5/22/2014 21:00	2.15	0.54	0.96	0.99	1.67	0.61	1.20	1.18
5/22/2014 21:30	2.15	0.54	0.96	0.99	1.67	0.61	1.20	1.18
5/22/2014 22:00	2.15	0.54	0.96	0.98	1.67	0.61	1.20	1.18
5/22/2014 22:30	2.16	0.54	0.95	0.98	1.67	0.61	1.21	1.17
5/22/2014 23:00	2.16	0.54	0.96	0.98	1.68	0.61	1.20	1.17
5/22/2014 23:30	2.17	0.54	0.96	0.98	1.68	0.61	1.20	1.17
5/23/2014 0:00	2.17	0.54	0.96	0.98	1.69	0.61	1.21	1.17
5/23/2014 0:30	2.18	0.54	0.96	0.98	1.69	0.61	1.20	1.18
5/23/2014 1:00	2.19	0.54	0.96	0.98	1.70	0.61	1.20	1.17
5/23/2014 1:30	2.20	0.54	0.96	0.98	1.71	0.61	1.20	1.17
5/23/2014 2:00	2.20	0.54	0.96	0.98	1.72	0.61	1.21	1.17
5/23/2014 2:30	2.21	0.54	0.96	0.98	1.73	0.61	1.20	1.17
5/23/2014 3:00	2.22	0.54	0.96	0.98	1.74	0.61	1.20	1.17
5/23/2014 3:30	2.23	0.54	0.96	0.98	1.75	0.61	1.20	1.17
5/23/2014 4:00	2.23	0.54	0.95	0.98	1.76	0.61	1.20	1.17
5/23/2014 4:30	2.24	0.54	0.96	0.98	1.76	0.61	1.20	1.17
5/23/2014 5:00	2.25	0.54	0.96	0.98	1.77	0.60	1.20	1.17
5/23/2014 5:30	2.25	0.54	0.96	0.98	1.78	0.60	1.20	1.17
5/23/2014 6:00	2.26	0.54	0.96	0.98	1.79	0.60	1.20	1.17
5/23/2014 6:30	2.27	0.54	0.96	0.99	1.80	0.60	1.20	1.17
5/23/2014 7:00	2.26	0.54	0.97	0.98	1.79	0.60	1.20	1.17
5/23/2014 7:30	2.25	0.54	0.97	0.99	1.78	0.60	1.20	1.18
5/23/2014 8:00	2.22	0.54	0.97	0.99	1.76	0.60	1.20	1.18
5/23/2014 8:30	2.20	0.54	0.97	0.99	1.74	0.60	1.20	1.17
5/23/2014 9:00	2.18	0.54	0.96	0.99	1.73	0.60	1.20	1.17
5/23/2014 9:30	2.16	0.54	0.96	0.99	1.71	0.60	1.20	1.18
5/23/2014 10:00	2.12	0.54	0.96	0.99	1.68	0.60	1.20	1.17
5/23/2014 10:30	2.12	0.54	0.97	0.99	1.68	0.60	1.20	1.17
5/23/2014 11:00	2.12	0.54	0.96	0.99	1.68	0.60	1.19	1.17
5/23/2014 11:30	2.12	0.54	0.97	0.98	1.68	0.60	1.20	1.17
5/23/2014 12:00	2.12	0.54	0.97	0.99	1.68	0.60	1.20	1.17
5/23/2014 12:30	2.13	0.54	0.97	0.99	1.69	0.60	1.20	1.17
5/23/2014 13:00	2.12	0.54	0.97	0.99	1.68	0.60	1.20	1.17
5/23/2014 13:30	2.09	0.54	0.97	0.99	1.66	0.60	1.19	1.17
5/23/2014 14:00	2.07	0.54	0.97	0.99	1.64	0.60	1.20	1.17
5/23/2014 14:30	2.04	0.54	0.97	0.99	1.62	0.60	1.19	1.17
5/23/2014 15:00	2.04	0.54	0.97	1.00	1.62	0.60	1.19	1.17
5/23/2014 15:30	2.05	0.54	0.97	0.99	1.63	0.60	1.19	1.17

Preliminary Data from Central Monitoring System

	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/23/2014 16:00	2.05	0.54	0.97	1.00	1.63	0.60	1.20	1.17
5/23/2014 16:30	2.05	0.54	0.97	0.99	1.62	0.60	1.20	1.17
5/23/2014 17:00	2.04	0.54	0.97	1.00	1.62	0.60	1.20	1.17
5/23/2014 17:30	2.04	0.54	0.97	1.00	1.62	0.60	1.20	1.17
5/23/2014 18:00	2.04	0.54	0.97	1.00	1.62	0.60	1.19	1.17
5/23/2014 18:30	2.04	0.54	0.97	1.00	1.62	0.60	1.19	1.16
5/23/2014 19:00	2.06	0.54	0.97	1.00	1.63	0.60	1.20	1.17
5/23/2014 19:30	2.12	0.54	0.97	0.99	1.69	0.60	1.20	1.16
5/23/2014 20:00	2.17	0.54	0.97	0.99	1.73	0.60	1.20	1.17
5/23/2014 20:30	2.18	0.54	0.97	1.00	1.74	0.60	1.19	1.17
5/23/2014 21:00	2.20	0.54	0.97	0.99	1.76	0.60	1.20	1.17
5/23/2014 21:30	2.21	0.54	0.96	0.99	1.78	0.60	1.20	1.17
5/23/2014 22:00	2.23	0.54	0.96	0.99	1.79	0.60	1.19	1.16
5/23/2014 22:30	2.25	0.54	0.96	0.99	1.82	0.60	1.20	1.17
5/23/2014 23:00	2.28	0.54	0.96	0.99	1.84	0.60	1.19	1.17
5/23/2014 23:30	2.30	0.54	0.97	0.99	1.86	0.60	1.19	1.16
5/24/2014 0:00	2.32	0.54	0.97	0.99	1.88	0.59	1.19	1.16
5/24/2014 0:30	2.33	0.54	0.96	0.99	1.90	0.59	1.19	1.16
5/24/2014 1:00	2.34	0.54	0.96	0.99	1.91	0.59	1.19	1.16
5/24/2014 1:30	2.35	0.54	0.96	0.99	1.93	0.59	1.19	1.16
5/24/2014 2:00	2.36	0.54	0.96	0.99	1.94	0.59	1.19	1.16
5/24/2014 2:30	2.38	0.54	0.96	0.98	1.96	0.59	1.18	1.16
5/24/2014 3:00	2.39	0.54	0.96	0.98	1.96	0.59	1.18	1.15
5/24/2014 3:30	2.38	0.54	0.96	0.98	1.96	0.59	1.18	1.15
5/24/2014 4:00	2.38	0.54	0.96	0.98	1.96	0.59	1.18	1.16
5/24/2014 4:30	2.38	0.54	0.96	0.99	1.96	0.59	1.18	1.16
5/24/2014 5:00	2.38	0.54	0.96	0.99	1.97	0.59	1.18	1.16
5/24/2014 5:30	2.39	0.54	0.96	0.98	1.97	0.59	1.19	1.15
5/24/2014 6:00	2.39	0.54	0.96	0.98	1.97	0.59	1.19	1.15
5/24/2014 6:30	2.39	0.54	0.96	0.99	1.98	0.59	1.18	1.15
5/24/2014 7:00	2.40	0.54	0.96	0.98	1.98	0.59	1.18	1.15
5/24/2014 7:30	2.39	0.54	0.96	0.98	1.98	0.59	1.18	1.15
5/24/2014 8:00	2.36	0.54	0.96	0.98	1.95	0.59	1.18	1.15
5/24/2014 8:30	2.35	0.54	0.97	0.99	1.94	0.59	1.19	1.16
5/24/2014 9:00	2.39	0.54	0.97	1.00	1.98	0.59	1.19	1.16
5/24/2014 9:30	2.48	0.54	0.97	0.99	2.07	0.58	1.19	1.16
5/24/2014 10:00	2.49	0.54	0.97	0.99	2.08	0.58	1.19	1.16
5/24/2014 10:30	2.42	0.54	0.97	0.99	2.02	0.58	1.19	1.16
5/24/2014 11:00	2.35	0.54	0.97	0.99	1.94	0.58	1.19	1.17
5/24/2014 11:30	2.27	0.54	0.98	1.00	1.86	0.58	1.20	1.17
5/24/2014 12:00	2.23	0.54	0.98	1.00	1.83	0.58	1.19	1.17
5/24/2014 12:30	2.16	0.54	0.98	1.00	1.78	0.58	1.19	1.17
5/24/2014 13:00	2.06	0.54	0.98	1.01	1.70	0.58	1.19	1.16
5/24/2014 13:30	2.04	0.54	0.99	1.02	1.68	0.58	1.19	1.16
5/24/2014 14:00	2.03	0.54	0.99	1.02	1.67	0.58	1.19	1.16
5/24/2014 14:30	1.98	0.54	0.99	1.02	1.64	0.58	1.19	1.16
5/24/2014 15:00	1.96	0.54	0.99	1.02	1.62	0.58	1.19	1.16
5/24/2014 15:30	1.95	0.54	0.99	1.02	1.61	0.58	1.19	1.16
5/24/2014 16:00	1.94	0.54	0.99	1.02	1.61	0.58	1.19	1.16
5/24/2014 16:30	1.94	0.54	0.99	1.02	1.61	0.58	1.19	1.16
5/24/2014 17:00	1.94	0.54	0.99	1.02	1.61	0.58	1.19	1.16
5/24/2014 17:30	1.95	0.54	0.99	1.02	1.61	0.57	1.19	1.16
5/24/2014 18:00	1.95	0.54	0.99	1.02	1.61	0.57	1.19	1.16
5/24/2014 18:30	1.96	0.54	0.99	1.02	1.62	0.57	1.19	1.16
5/24/2014 19:00	1.98	0.54	0.99	1.02	1.65	0.57	1.19	1.16
5/24/2014 19:30	2.03	0.54	0.99	1.02	1.69	0.57	1.19	1.16

Preliminary Data from Central Monitoring System

	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/24/2014 20:00	2.11	0.54	0.99	1.01	1.75	0.57	1.19	1.16
5/24/2014 20:30	2.17	0.54	0.98	1.01	1.80	0.57	1.19	1.16
5/24/2014 21:00	2.21	0.54	0.98	1.01	1.84	0.57	1.19	1.16
5/24/2014 21:30	2.23	0.54	0.98	1.00	1.86	0.57	1.18	1.16
5/24/2014 22:00	2.26	0.54	0.98	1.00	1.88	0.57	1.18	1.16
5/24/2014 22:30	2.31	0.54	0.98	1.00	1.93	0.57	1.19	1.16
5/24/2014 23:00	2.35	0.54	0.97	1.00	1.96	0.57	1.19	1.16
5/24/2014 23:30	2.37	0.54	0.97	1.00	1.99	0.57	1.18	1.15
5/25/2014 0:00	2.39	0.54	0.97	1.00	2.01	0.57	1.18	1.16
5/25/2014 0:30	2.40	0.54	0.97	1.00	2.02	0.57	1.18	1.15
5/25/2014 1:00	2.43	0.54	0.97	1.00	2.05	0.57	1.18	1.15
5/25/2014 1:30	2.46	0.54	0.97	0.99	2.08	0.57	1.18	1.15
5/25/2014 2:00	2.48	0.54	0.97	0.99	2.11	0.57	1.18	1.15
5/25/2014 2:30	2.49	0.54	0.97	0.99	2.13	0.57	1.18	1.15
5/25/2014 3:00	2.50	0.54	0.97	1.00	2.14	0.56	1.18	1.14
5/25/2014 3:30	2.51	0.54	0.97	1.00	2.16	0.56	1.17	1.15
5/25/2014 4:00	2.51	0.54	0.98	1.00	2.17	0.56	1.17	1.14
5/25/2014 4:30	2.52	0.54	0.97	1.00	2.18	0.56	1.17	1.14
5/25/2014 5:00	2.53	0.54	0.97	1.00	2.20	0.56	1.17	1.14
5/25/2014 5:30	2.53	0.54	0.98	1.00	2.21	0.56	1.16	1.13
5/25/2014 6:00	2.53	0.54	0.98	1.00	2.22	0.56	1.16	1.13
5/25/2014 6:30	2.52	0.54	0.98	1.00	2.21	0.56	1.16	1.13
5/25/2014 7:00	2.50	0.54	0.98	1.00	2.20	0.56	1.16	1.13
5/25/2014 7:30	2.48	0.54	0.98	1.00	2.19	0.56	1.16	1.13
5/25/2014 8:00	2.46	0.54	0.99	1.01	2.17	0.56	1.16	1.14
5/25/2014 8:30	2.44	0.54	0.99	1.01	2.14	0.55	1.17	1.14
5/25/2014 9:00	2.40	0.54	0.98	1.01	2.09	0.55	1.17	1.14
5/25/2014 9:30	2.31	0.54	0.98	1.00	1.99	0.55	1.17	1.15
5/25/2014 10:00	2.28	0.54	0.98	1.00	1.94	0.55	1.18	1.15
5/25/2014 10:30	2.16	0.54	0.99	1.01	1.81	0.55	1.19	1.16
5/25/2014 11:00	2.01	0.54	1.00	1.02	1.67	0.55	1.19	1.16
5/25/2014 11:30	1.91	0.54	1.00	1.03	1.59	0.55	1.19	1.16
5/25/2014 12:00	1.84	0.54	1.01	1.02	1.53	0.56	1.19	1.16
5/25/2014 12:30	1.80	0.54	1.01	1.04	1.50	0.56	1.20	1.16
5/25/2014 13:00	1.81	0.54	1.01	1.03	1.51	0.56	1.19	1.16
5/25/2014 13:30	1.84	0.54	1.01	1.03	1.53	0.56	1.19	1.16
5/25/2014 14:00	1.83	0.54	1.01	1.04	1.52	0.56	1.19	1.16
5/25/2014 14:30	1.87	0.54	1.00	1.03	1.55	0.56	1.19	1.16
5/25/2014 15:00	1.86	0.54	1.01	1.03	1.55	0.56	1.20	1.16
5/25/2014 15:30	1.85	0.54	1.01	1.03	1.54	0.56	1.19	1.16
5/25/2014 16:00	1.84	0.54	1.01	1.03	1.54	0.56	1.19	1.16
5/25/2014 16:30	1.82	0.54	1.00	1.03	1.52	0.56	1.19	1.16
5/25/2014 17:00	1.82	0.54	1.00	1.03	1.51	0.56	1.19	1.16
5/25/2014 17:30	1.82	0.54	1.00	1.03	1.51	0.56	1.19	1.16
5/25/2014 18:00	1.82	0.54	1.00	1.03	1.51	0.56	1.19	1.16
5/25/2014 18:30	1.81	0.54	1.00	1.03	1.51	0.56	1.19	1.16
5/25/2014 19:00	1.81	0.54	1.01	1.03	1.51	0.56	1.19	1.16
5/25/2014 19:30	1.82	0.54	1.01	1.03	1.51	0.56	1.19	1.16
5/25/2014 20:00	1.87	0.54	1.00	1.03	1.56	0.56	1.19	1.16
5/25/2014 20:30	1.95	0.53	0.99	1.02	1.63	0.56	1.19	1.16
5/25/2014 21:00	2.01	0.53	1.00	1.02	1.68	0.56	1.19	1.16
5/25/2014 21:30	2.06	0.53	1.00	1.02	1.73	0.56	1.19	1.16
5/25/2014 22:00	2.11	0.53	0.99	1.02	1.77	0.56	1.19	1.16
5/25/2014 22:30	2.14	0.53	0.99	1.01	1.81	0.56	1.18	1.16
5/25/2014 23:00	2.18	0.53	0.99	1.02	1.85	0.56	1.18	1.15
5/25/2014 23:30	2.21	0.53	0.99	1.01	1.88	0.56	1.18	1.15

Preliminary Data from Central Monitoring System

	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/26/2014 0:00	2.23	0.53	0.99	1.01	1.91	0.55	1.18	1.15
5/26/2014 0:30	2.25	0.53	0.99	1.01	1.94	0.55	1.18	1.15
5/26/2014 1:00	2.26	0.53	0.99	1.01	1.94	0.55	1.18	1.15
5/26/2014 1:30	2.26	0.53	0.99	1.01	1.95	0.55	1.18	1.15
5/26/2014 2:00	2.28	0.53	0.99	1.01	1.98	0.55	1.18	1.14
5/26/2014 2:30	2.30	0.53	0.99	1.01	1.99	0.55	1.17	1.14
5/26/2014 3:00	2.30	0.54	0.99	1.01	2.00	0.55	1.17	1.14
5/26/2014 3:30	2.30	0.54	0.99	1.01	2.00	0.55	1.18	1.14
5/26/2014 4:00	2.30	0.54	0.99	1.01	2.00	0.55	1.17	1.14
5/26/2014 4:30	2.31	0.54	0.99	1.01	2.00	0.55	1.17	1.14
5/26/2014 5:00	2.31	0.54	0.99	1.01	2.01	0.55	1.17	1.15
5/26/2014 5:30	2.32	0.54	0.99	1.01	2.01	0.55	1.17	1.14
5/26/2014 6:00	2.34	0.54	0.99	1.01	2.03	0.55	1.17	1.14
5/26/2014 6:30	2.35	0.54	0.99	1.01	2.05	0.55	1.17	1.14
5/26/2014 7:00	2.36	0.54	0.99	1.01	2.07	0.55	1.17	1.14
5/26/2014 7:30	2.37	0.54	0.99	1.01	2.07	0.55	1.17	1.14
5/26/2014 8:00	2.34	0.54	0.99	1.01	2.05	0.55	1.17	1.14
5/26/2014 8:30	2.30	0.54	0.99	1.01	2.00	0.55	1.17	1.14
5/26/2014 9:00	2.24	0.54	0.99	1.01	1.93	0.55	1.18	1.15
5/26/2014 9:30	2.15	0.54	0.99	1.01	1.82	0.55	1.19	1.16
5/26/2014 10:00	2.03	0.54	0.99	1.02	1.69	0.55	1.20	1.16
5/26/2014 10:30	1.89	0.54	1.00	1.02	1.57	0.55	1.20	1.17
5/26/2014 11:00	1.75	0.53	0.99	1.02	1.44	0.55	1.18	1.16
5/26/2014 11:30	1.70	0.54	1.01	1.04	1.39	0.56	1.20	1.17
5/26/2014 12:00	1.63	0.54	1.02	1.04	1.35	0.56	1.20	1.17
5/26/2014 12:30	1.61	0.54	1.02	1.05	1.33	0.56	1.20	1.17
5/26/2014 13:00	1.60	0.54	1.02	1.05	1.32	0.56	1.20	1.17
5/26/2014 13:30	1.59	0.54	1.02	1.05	1.31	0.56	1.20	1.17
5/26/2014 14:00	1.57	0.54	1.03	1.05	1.30	0.56	1.20	1.17
5/26/2014 14:30	1.58	0.54	1.03	1.05	1.30	0.56	1.20	1.17
5/26/2014 15:00	1.57	0.54	1.03	1.06	1.30	0.56	1.20	1.17
5/26/2014 15:30	1.57	0.54	1.03	1.06	1.29	0.56	1.20	1.17
5/26/2014 16:00	1.58	0.54	1.03	1.05	1.31	0.56	1.20	1.17
5/26/2014 16:30	1.60	0.54	1.03	1.06	1.32	0.56	1.20	1.17
5/26/2014 17:00	1.61	0.54	1.03	1.05	1.32	0.56	1.20	1.17
5/26/2014 17:30	1.59	0.54	1.02	1.05	1.31	0.56	1.20	1.17
5/26/2014 18:00	1.59	0.54	1.02	1.05	1.31	0.56	1.20	1.17
5/26/2014 18:30	1.58	0.54	1.02	1.05	1.31	0.56	1.20	1.17
5/26/2014 19:00	1.59	0.54	1.02	1.05	1.31	0.56	1.20	1.17
5/26/2014 19:30	1.61	0.54	1.02	1.05	1.33	0.56	1.20	1.17
5/26/2014 20:00	1.66	0.54	1.02	1.05	1.37	0.56	1.20	1.17
5/26/2014 20:30	1.73	0.54	1.02	1.04	1.42	0.56	1.20	1.17
5/26/2014 21:00	1.78	0.54	1.01	1.04	1.48	0.56	1.20	1.17
5/26/2014 21:30	1.84	0.54	1.01	1.04	1.52	0.56	1.20	1.17
5/26/2014 22:00	1.88	0.54	1.01	1.03	1.56	0.56	1.20	1.17
5/26/2014 22:30	1.92	0.54	1.01	1.03	1.60	0.56	1.20	1.16
5/26/2014 23:00	1.96	0.54	1.01	1.03	1.64	0.56	1.20	1.17
5/26/2014 23:30	1.99	0.54	1.00	1.03	1.67	0.56	1.20	1.17
5/27/2014 0:00	2.02	0.53	1.00	1.03	1.70	0.56	1.20	1.16
5/27/2014 0:30	2.05	0.53	1.00	1.03	1.74	0.56	1.20	1.16
5/27/2014 1:00	2.08	0.53	1.01	1.03	1.77	0.56	1.19	1.16
5/27/2014 1:30	2.12	0.53	1.00	1.03	1.81	0.56	1.19	1.16
5/27/2014 2:00	2.14	0.53	1.00	1.02	1.84	0.56	1.19	1.15
5/27/2014 2:30	2.17	0.53	1.00	1.02	1.87	0.56	1.18	1.15
5/27/2014 3:00	2.19	0.53	1.00	1.03	1.90	0.56	1.18	1.15
5/27/2014 3:30	2.21	0.53	1.00	1.02	1.92	0.56	1.18	1.15

Preliminary Data from Central Monitoring System

	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/27/2014 4:00	2.23	0.53	1.00	1.02	1.95	0.56	1.18	1.15
5/27/2014 4:30	2.25	0.53	1.00	1.02	1.97	0.56	1.18	1.15
5/27/2014 5:00	2.28	0.53	1.00	1.03	2.00	0.56	1.18	1.15
5/27/2014 5:30	2.29	0.53	1.00	1.03	2.01	0.56	1.18	1.15
5/27/2014 6:00	2.31	0.53	1.00	1.03	2.04	0.56	1.18	1.15
5/27/2014 6:30	2.33	0.53	1.00	1.02	2.06	0.56	1.18	1.14
5/27/2014 7:00	2.33	0.53	1.00	1.02	2.06	0.56	1.17	1.14
5/27/2014 7:30	2.32	0.53	1.00	1.02	2.05	0.56	1.17	1.14
5/27/2014 8:00	2.27	0.53	1.00	1.02	2.01	0.56	1.17	1.14
5/27/2014 8:30	2.18	0.53	1.00	1.02	1.89	0.56	1.18	1.15
5/27/2014 9:00	2.01	0.52	0.99	1.01	1.65	0.54	1.19	1.16
5/27/2014 9:30	1.77	0.53	1.00	1.02	1.39	0.55	1.22	1.19
5/27/2014 10:00	1.63	0.53	1.01	1.04	1.28	0.55	1.22	1.19
5/27/2014 10:30	1.56	0.53	1.02	1.05	1.23	0.55	1.22	1.19
5/27/2014 11:00	1.50	0.53	1.03	1.05	1.19	0.55	1.22	1.18
5/27/2014 11:30	1.47	0.53	1.03	1.05	1.17	0.56	1.22	1.18
5/27/2014 12:00	1.45	0.53	1.03	1.06	1.15	0.56	1.22	1.18
5/27/2014 12:30	1.43	0.54	1.03	1.06	1.14	0.56	1.21	1.18
5/27/2014 13:00	1.41	0.54	1.03	1.06	1.12	0.56	1.21	1.18
5/27/2014 13:30	1.40	0.54	1.03	1.06	1.12	0.56	1.21	1.18
5/27/2014 14:00	1.39	0.54	1.03	1.06	1.11	0.56	1.21	1.18
5/27/2014 14:30	1.38	0.54	1.03	1.06	1.10	0.56	1.21	1.18
5/27/2014 15:00	1.38	0.54	1.03	1.06	1.10	0.56	1.21	1.18
5/27/2014 15:30	1.37	0.54	1.03	1.06	1.10	0.56	1.21	1.18
5/27/2014 16:00	1.37	0.54	1.03	1.06	1.09	0.56	1.21	1.17
5/27/2014 16:30	1.37	0.54	1.03	1.06	1.09	0.56	1.20	1.17
5/27/2014 17:00	1.37	0.53	1.03	1.06	1.09	0.55	1.21	1.17
5/27/2014 17:30	1.37	0.53	1.03	1.06	1.09	0.55	1.21	1.17
5/27/2014 18:00	1.37	0.53	1.03	1.06	1.09	0.55	1.21	1.17
5/27/2014 18:30	1.37	0.53	1.03	1.06	1.09	0.55	1.21	1.17
5/27/2014 19:00	1.38	0.53	1.03	1.06	1.09	0.55	1.21	1.17
5/27/2014 19:30	1.38	0.54	1.03	1.06	1.10	0.55	1.20	1.17
5/27/2014 20:00	1.39	0.54	1.03	1.06	1.11	0.55	1.20	1.17
5/27/2014 20:30	1.42	0.54	1.03	1.06	1.13	0.55	1.21	1.17
5/27/2014 21:00	1.44	0.54	1.03	1.06	1.15	0.55	1.21	1.17
5/27/2014 21:30	1.46	0.54	1.03	1.06	1.16	0.55	1.21	1.18
5/27/2014 22:00	1.47	0.54	1.03	1.05	1.17	0.55	1.21	1.18
5/27/2014 22:30	1.48	0.54	1.02	1.05	1.18	0.55	1.21	1.18
5/27/2014 23:00	1.49	0.54	1.03	1.05	1.19	0.55	1.21	1.18
5/27/2014 23:30	1.49	0.54	1.03	1.06	1.19	0.55	1.21	1.18
5/28/2014 0:00	1.50	0.54	1.03	1.06	1.19	0.55	1.21	1.18
5/28/2014 0:30	1.50	0.54	1.02	1.05	1.19	0.55	1.21	1.18
5/28/2014 1:00	1.50	0.54	1.02	1.05	1.20	0.55	1.21	1.18
5/28/2014 1:30	1.52	0.54	1.03	1.05	1.21	0.55	1.21	1.18
5/28/2014 2:00	1.54	0.54	1.02	1.05	1.22	0.55	1.21	1.18
5/28/2014 2:30	1.55	0.54	1.02	1.05	1.23	0.55	1.21	1.18
5/28/2014 3:00	1.56	0.54	1.02	1.05	1.24	0.55	1.22	1.18
5/28/2014 3:30	1.58	0.54	1.02	1.04	1.26	0.55	1.21	1.18
5/28/2014 4:00	1.59	0.54	1.02	1.05	1.27	0.55	1.22	1.18
5/28/2014 4:30	1.61	0.54	1.02	1.04	1.28	0.55	1.22	1.18
5/28/2014 5:00	1.63	0.54	1.02	1.05	1.30	0.55	1.22	1.18
5/28/2014 5:30	1.66	0.54	1.02	1.04	1.31	0.55	1.22	1.18
5/28/2014 6:00	1.67	0.54	1.02	1.04	1.33	0.55	1.22	1.19
5/28/2014 6:30	1.69	0.54	1.02	1.04	1.34	0.55	1.22	1.19
5/28/2014 7:00	1.69	0.54	1.02	1.04	1.34	0.55	1.22	1.19
5/28/2014 7:30	1.66	0.54	1.02	1.04	1.32	0.55	1.22	1.19

Preliminary Data from Central Monitoring System

	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/28/2014 8:00	1.64	0.54	1.02	1.04	1.29	0.55	1.22	1.19
5/28/2014 8:30	1.60	0.54	1.02	1.04	1.25	0.55	1.22	1.19
5/28/2014 9:00	1.54	0.54	1.02	1.05	1.21	0.55	1.22	1.19
5/28/2014 9:30	1.49	0.54	1.03	1.05	1.18	0.55	1.22	1.18
5/28/2014 10:00	1.46	0.54	1.03	1.05	1.15	0.55	1.22	1.18
5/28/2014 10:30	1.43	0.54	1.03	1.05	1.13	0.55	1.21	1.18
5/28/2014 11:00	1.41	0.54	1.03	1.06	1.12	0.55	1.21	1.18
5/28/2014 11:30	1.39	0.54	1.03	1.06	1.11	0.55	1.21	1.18
5/28/2014 12:00	1.38	0.54	1.03	1.06	1.10	0.55	1.21	1.18
5/28/2014 12:30	1.38	0.54	1.03	1.06	1.09	0.55	1.21	1.18
5/28/2014 13:00	1.36	0.54	1.03	1.06	1.09	0.55	1.21	1.18
5/28/2014 13:30	1.36	0.54	1.03	1.06	1.08	0.55	1.21	1.18
5/28/2014 14:00	1.36	0.54	1.03	1.06	1.08	0.55	1.21	1.18
5/28/2014 14:30	1.36	0.54	1.04	1.07	1.08	0.55	1.21	1.18
5/28/2014 15:00	1.35	0.54	1.04	1.06	1.07	0.55	1.21	1.18
5/28/2014 15:30	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/28/2014 16:00	1.35	0.54	1.03	1.06	1.08	0.55	1.21	1.18
5/28/2014 16:30	1.35	0.54	1.03	1.07	1.07	0.55	1.21	1.18
5/28/2014 17:00	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/28/2014 17:30	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/28/2014 18:00	1.35	0.54	1.03	1.07	1.07	0.55	1.21	1.18
5/28/2014 18:30	1.35	0.54	1.03	1.07	1.08	0.55	1.21	1.18
5/28/2014 19:00	1.36	0.54	1.03	1.06	1.08	0.55	1.21	1.18
5/28/2014 19:30	1.36	0.54	1.03	1.07	1.08	0.55	1.21	1.18
5/28/2014 20:00	1.37	0.54	1.04	1.06	1.09	0.55	1.21	1.18
5/28/2014 20:30	1.39	0.54	1.04	1.07	1.10	0.55	1.21	1.18
5/28/2014 21:00	1.40	0.54	1.04	1.06	1.11	0.55	1.22	1.18
5/28/2014 21:30	1.40	0.54	1.03	1.07	1.11	0.55	1.22	1.18
5/28/2014 22:00	1.41	0.54	1.04	1.07	1.12	0.55	1.22	1.18
5/28/2014 22:30	1.42	0.54	1.03	1.06	1.13	0.55	1.22	1.18
5/28/2014 23:00	1.43	0.54	1.04	1.07	1.13	0.55	1.22	1.19
5/28/2014 23:30	1.44	0.54	1.04	1.07	1.14	0.55	1.22	1.18
5/29/2014 0:00	1.44	0.54	1.04	1.07	1.14	0.55	1.22	1.19
5/29/2014 0:30	1.45	0.54	1.04	1.06	1.15	0.55	1.22	1.19
5/29/2014 1:00	1.45	0.54	1.04	1.06	1.15	0.55	1.22	1.19
5/29/2014 1:30	1.46	0.54	1.03	1.06	1.16	0.55	1.22	1.19
5/29/2014 2:00	1.47	0.54	1.03	1.06	1.16	0.55	1.22	1.19
5/29/2014 2:30	1.48	0.54	1.04	1.06	1.17	0.55	1.22	1.19
5/29/2014 3:00	1.49	0.54	1.03	1.06	1.18	0.55	1.22	1.19
5/29/2014 3:30	1.50	0.54	1.03	1.06	1.19	0.55	1.22	1.19
5/29/2014 4:00	1.51	0.54	1.03	1.06	1.20	0.55	1.22	1.19
5/29/2014 4:30	1.52	0.54	1.03	1.06	1.21	0.55	1.23	1.19
5/29/2014 5:00	1.53	0.54	1.03	1.05	1.21	0.55	1.22	1.19
5/29/2014 5:30	1.54	0.54	1.03	1.05	1.22	0.55	1.22	1.19
5/29/2014 6:00	1.55	0.54	1.03	1.05	1.22	0.55	1.22	1.19
5/29/2014 6:30	1.56	0.54	1.03	1.05	1.23	0.55	1.22	1.19
5/29/2014 7:00	1.55	0.54	1.03	1.05	1.22	0.55	1.22	1.19
5/29/2014 7:30	1.53	0.54	1.03	1.05	1.21	0.55	1.22	1.19
5/29/2014 8:00	1.51	0.54	1.03	1.05	1.19	0.55	1.22	1.19
5/29/2014 8:30	1.49	0.54	1.03	1.05	1.17	0.55	1.22	1.19
5/29/2014 9:00	1.45	0.54	1.03	1.05	1.14	0.55	1.22	1.18
5/29/2014 9:30	1.43	0.54	1.03	1.05	1.13	0.55	1.22	1.18
5/29/2014 10:00	1.41	0.54	1.03	1.06	1.12	0.55	1.21	1.18
5/29/2014 10:30	1.39	0.54	1.03	1.06	1.10	0.55	1.21	1.18
5/29/2014 11:00	1.38	0.54	1.03	1.06	1.09	0.55	1.21	1.18
5/29/2014 11:30	1.37	0.54	1.03	1.06	1.08	0.55	1.21	1.18

Preliminary Data from Central Monitoring System

	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/29/2014 12:00	1.36	0.54	1.03	1.06	1.08	0.55	1.21	1.18
5/29/2014 12:30	1.36	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/29/2014 13:00	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/29/2014 13:30	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/29/2014 14:00	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/29/2014 14:30	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.17
5/29/2014 15:00	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/29/2014 15:30	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/29/2014 16:00	1.34	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/29/2014 16:30	1.34	0.54	1.03	1.06	1.06	0.55	1.21	1.18
5/29/2014 17:00	1.35	0.54	1.03	1.06	1.06	0.55	1.21	1.18
5/29/2014 17:30	1.35	0.54	1.03	1.06	1.06	0.55	1.21	1.18
5/29/2014 18:00	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/29/2014 18:30	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/29/2014 19:00	1.35	0.54	1.03	1.06	1.07	0.55	1.21	1.18
5/29/2014 19:30	1.35	0.52	1.00	1.05	1.07	0.53	1.20	1.16
5/29/2014 20:00	1.37	0.54	1.03	1.06	1.08	0.55	1.21	1.18
5/29/2014 20:30	1.37	0.54	1.03	1.06	1.09	0.55	1.21	1.18
5/29/2014 21:00	1.38	0.54	1.03	1.06	1.09	0.55	1.22	1.18
5/29/2014 21:30	1.38	0.54	1.04	1.07	1.10	0.55	1.21	1.18
5/29/2014 22:00	1.39	0.54	1.04	1.07	1.10	0.55	1.22	1.18
5/29/2014 22:30	1.40	0.54	1.04	1.06	1.11	0.55	1.22	1.18
5/29/2014 23:00	1.40	0.54	1.03	1.06	1.11	0.55	1.22	1.18
5/29/2014 23:30	1.40	0.54	1.03	1.06	1.11	0.55	1.21	1.18
5/30/2014 0:00	1.41	0.54	1.03	1.06	1.12	0.55	1.22	1.18
5/30/2014 0:30	1.41	0.54	1.04	1.06	1.12	0.55	1.22	1.18
5/30/2014 1:00	1.42	0.54	1.03	1.06	1.12	0.55	1.22	1.18
5/30/2014 1:30	1.42	0.54	1.03	1.06	1.13	0.55	1.22	1.18
5/30/2014 2:00	1.43	0.54	1.04	1.06	1.13	0.55	1.22	1.18
5/30/2014 2:30	1.44	0.54	1.03	1.06	1.14	0.55	1.22	1.19
5/30/2014 3:00	1.44	0.54	1.03	1.06	1.14	0.55	1.22	1.18
5/30/2014 3:30	1.46	0.54	1.03	1.05	1.15	0.55	1.22	1.18
5/30/2014 4:00	1.46	0.54	1.03	1.06	1.15	0.55	1.22	1.19
5/30/2014 4:30	1.46	0.54	1.03	1.06	1.15	0.55	1.22	1.19
5/30/2014 5:00	1.46	0.54	1.03	1.05	1.16	0.55	1.22	1.19
5/30/2014 5:30	1.47	0.54	1.03	1.06	1.16	0.55	1.22	1.18
5/30/2014 6:00	1.48	0.54	1.03	1.05	1.16	0.55	1.22	1.19
5/30/2014 6:30	1.48	0.54	1.03	1.06	1.17	0.55	1.22	1.18
5/30/2014 7:00	1.47	0.54	1.03	1.05	1.16	0.55	1.22	1.19
5/30/2014 7:30	1.48	0.54	1.02	1.05	1.16	0.55	1.21	1.18
5/30/2014 8:00	1.47	0.54	1.03	1.05	1.16	0.56	1.22	1.19
5/30/2014 8:30	1.46	0.54	1.03	1.05	1.15	0.56	1.22	1.18
5/30/2014 9:00	1.45	0.54	1.03	1.05	1.14	0.56	1.21	1.18
5/30/2014 9:30	1.44	0.54	1.02	1.05	1.12	0.56	1.22	1.18
5/30/2014 10:00	1.41	0.54	1.02	1.05	1.11	0.56	1.21	1.18
5/30/2014 10:30	1.39	0.54	1.03	1.05	1.10	0.56	1.21	1.18
5/30/2014 11:00	1.39	0.54	1.03	1.06	1.10	0.56	1.22	1.18
5/30/2014 11:30	1.38	0.54	1.03	1.06	1.09	0.56	1.21	1.18
5/30/2014 12:00	1.37	0.54	1.03	1.06	1.08	0.56	1.21	1.18
5/30/2014 12:30	1.36	0.54	1.03	1.05	1.07	0.56	1.21	1.18
5/30/2014 13:00	1.36	0.54	1.03	1.05	1.07	0.56	1.21	1.18
5/30/2014 13:30	1.35	0.54	1.03	1.06	1.07	0.56	1.21	1.18
5/30/2014 14:00	1.34	0.54	1.03	1.06	1.06	0.56	1.21	1.17
5/30/2014 14:30	1.35	0.54	1.03	1.06	1.06	0.56	1.21	1.18
5/30/2014 15:00	1.35	0.54	1.03	1.06	1.06	0.56	1.21	1.18
5/30/2014 15:30	1.35	0.54	1.03	1.06	1.06	0.56	1.21	1.17

Preliminary Data from Central Monitoring System

	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/30/2014 16:00	1.35	0.54	1.03	1.06	1.06	0.56	1.21	1.18
5/30/2014 16:30	1.36	0.54	1.03	1.06	1.07	0.56	1.21	1.18
5/30/2014 17:00	1.36	0.54	1.03	1.06	1.07	0.56	1.21	1.18
5/30/2014 17:30	1.36	0.54	1.03	1.06	1.08	0.56	1.21	1.18
5/30/2014 18:00	1.40	0.54	1.03	1.06	1.10	0.56	1.22	1.19
5/30/2014 18:30	1.45	0.54	1.03	1.07	1.14	0.56	1.23	1.19
5/30/2014 19:00	1.44	0.54	1.03	1.06	1.14	0.56	1.22	1.18
5/30/2014 19:30	1.43	0.54	1.03	1.06	1.13	0.56	1.22	1.18
5/30/2014 20:00	1.44	0.54	1.03	1.06	1.13	0.56	1.22	1.18
5/30/2014 20:30	1.45	0.54	1.02	1.06	1.14	0.56	1.22	1.18
5/30/2014 21:00	1.47	0.54	1.02	1.05	1.15	0.56	1.22	1.18
5/30/2014 21:30	1.48	0.54	1.02	1.05	1.16	0.56	1.22	1.18
5/30/2014 22:00	1.50	0.54	1.02	1.05	1.18	0.56	1.22	1.19
5/30/2014 22:30	1.51	0.54	1.02	1.05	1.18	0.56	1.22	1.19
5/30/2014 23:00	1.51	0.54	1.03	1.06	1.19	0.56	1.22	1.18
5/30/2014 23:30	1.51	0.54	1.02	1.05	1.19	0.56	1.22	1.19
5/31/2014 0:00	1.52	0.54	1.03	1.05	1.19	0.56	1.22	1.19
5/31/2014 0:30	1.52	0.54	1.02	1.05	1.19	0.56	1.22	1.19
5/31/2014 1:00	1.53	0.54	1.02	1.05	1.20	0.56	1.22	1.19
5/31/2014 1:30	1.53	0.54	1.02	1.05	1.20	0.56	1.22	1.19
5/31/2014 2:00	1.54	0.54	1.02	1.05	1.20	0.56	1.22	1.19
5/31/2014 2:30	1.56	0.54	1.02	1.05	1.22	0.56	1.22	1.19
5/31/2014 3:00	1.57	0.54	1.02	1.05	1.23	0.56	1.22	1.19
5/31/2014 3:30	1.58	0.54	1.02	1.05	1.24	0.56	1.23	1.19
5/31/2014 4:00	1.59	0.54	1.02	1.05	1.24	0.56	1.22	1.19
5/31/2014 4:30	1.60	0.54	1.02	1.04	1.25	0.56	1.23	1.19
5/31/2014 5:00	1.60	0.54	1.02	1.04	1.25	0.56	1.23	1.19
5/31/2014 5:30	1.62	0.54	1.02	1.04	1.26	0.56	1.23	1.19
5/31/2014 6:00	1.62	0.54	1.02	1.04	1.27	0.56	1.23	1.19
5/31/2014 6:30	1.64	0.53	1.00	1.04	1.28	0.54	1.22	1.19
5/31/2014 7:00	1.65	0.54	1.02	1.04	1.28	0.54	1.23	1.20
5/31/2014 7:30	1.64	0.54	1.02	1.04	1.27	0.54	1.23	1.20
5/31/2014 8:00	1.61	0.54	1.01	1.04	1.25	0.54	1.23	1.19
5/31/2014 8:30	1.57	0.54	1.02	1.04	1.22	0.54	1.23	1.19
5/31/2014 9:00	1.53	0.54	1.02	1.04	1.18	0.54	1.22	1.19
5/31/2014 9:30	1.49	0.54	1.02	1.04	1.15	0.54	1.22	1.19
5/31/2014 10:00	1.46	0.54	1.02	1.04	1.13	0.54	1.22	1.19
5/31/2014 10:30	1.44	0.54	1.02	1.05	1.12	0.54	1.22	1.19
5/31/2014 11:00	1.43	0.54	1.03	1.06	1.12	0.54	1.23	1.19
5/31/2014 11:30	1.41	0.54	1.04	1.06	1.10	0.54	1.23	1.19
5/31/2014 12:00	1.40	0.54	1.04	1.06	1.10	0.54	1.23	1.19
5/31/2014 12:30	1.39	0.54	1.04	1.07	1.09	0.54	1.22	1.19
5/31/2014 13:00	1.38	0.54	1.04	1.07	1.09	0.54	1.22	1.19
5/31/2014 13:30	1.38	0.54	1.04	1.07	1.08	0.54	1.23	1.19
5/31/2014 14:00	1.37	0.53	1.04	1.06	1.08	0.54	1.22	1.19
5/31/2014 14:30	1.37	0.53	1.03	1.06	1.07	0.54	1.22	1.19
5/31/2014 15:00	1.37	0.53	1.04	1.06	1.07	0.54	1.22	1.18
5/31/2014 15:30	1.36	0.53	1.03	1.06	1.07	0.54	1.22	1.19
5/31/2014 16:00	1.37	0.53	1.03	1.07	1.07	0.54	1.22	1.18
5/31/2014 16:30	1.36	0.53	1.03	1.06	1.07	0.54	1.22	1.19
5/31/2014 17:00	1.36	0.53	1.03	1.06	1.07	0.54	1.22	1.19
5/31/2014 17:30	1.37	0.53	1.03	1.06	1.07	0.54	1.22	1.19
5/31/2014 18:00	1.37	0.53	1.03	1.07	1.07	0.54	1.22	1.19
5/31/2014 18:30	1.37	0.53	1.03	1.07	1.07	0.54	1.22	1.19
5/31/2014 19:00	1.37	0.53	1.04	1.07	1.08	0.54	1.22	1.18
5/31/2014 19:30	1.37	0.53	1.03	1.07	1.08	0.54	1.22	1.18

Preliminary Data from Central Monitoring System

	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
Date and Time	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
5/31/2014 20:00	1.38	0.53	1.04	1.07	1.08	0.54	1.22	1.19
5/31/2014 20:30	1.39	0.53	1.03	1.07	1.09	0.54	1.22	1.19
5/31/2014 21:00	1.40	0.53	1.03	1.06	1.10	0.54	1.22	1.19
5/31/2014 21:30	1.40	0.53	1.03	1.07	1.10	0.54	1.22	1.19
5/31/2014 22:00	1.41	0.53	1.03	1.07	1.10	0.54	1.23	1.19
5/31/2014 22:30	1.41	0.53	1.04	1.07	1.11	0.54	1.23	1.19
5/31/2014 23:00	1.42	0.53	1.04	1.07	1.11	0.54	1.23	1.19
5/31/2014 23:30	1.43	0.53	1.04	1.07	1.12	0.54	1.22	1.19
6/1/2014 0:00	1.43	0.53	1.04	1.07	1.12	0.54	1.23	1.19
6/1/2014 0:30	1.44	0.53	1.04	1.06	1.13	0.55	1.23	1.19
6/1/2014 1:00	1.44	0.53	1.04	1.06	1.13	0.55	1.23	1.19
6/1/2014 1:30	1.45	0.53	1.03	1.06	1.14	0.55	1.23	1.19
6/1/2014 2:00	1.46	0.53	1.03	1.06	1.14	0.55	1.23	1.19
6/1/2014 2:30	1.47	0.53	1.04	1.07	1.15	0.55	1.23	1.19
6/1/2014 3:00	1.47	0.53	1.04	1.06	1.15	0.55	1.23	1.19
6/1/2014 3:30	1.48	0.53	1.03	1.06	1.16	0.55	1.23	1.19
6/1/2014 4:00	1.49	0.53	1.04	1.06	1.16	0.55	1.23	1.20
6/1/2014 4:30	1.50	0.53	1.03	1.06	1.17	0.55	1.23	1.20
6/1/2014 5:00	1.51	0.53	1.03	1.06	1.17	0.55	1.23	1.19
6/1/2014 5:30	1.52	0.53	1.03	1.06	1.18	0.55	1.23	1.20
6/1/2014 6:00	1.53	0.53	1.03	1.06	1.19	0.55	1.23	1.20
6/1/2014 6:30	1.54	0.53	1.03	1.06	1.20	0.55	1.23	1.20
6/1/2014 7:00	1.54	0.53	1.03	1.06	1.20	0.55	1.23	1.20
6/1/2014 7:30	1.52	0.53	1.03	1.06	1.19	0.55	1.23	1.19
6/1/2014 8:00	1.52	0.53	1.03	1.06	1.18	0.55	1.23	1.19
6/1/2014 8:30	1.50	0.53	1.03	1.06	1.17	0.55	1.23	1.19
6/1/2014 9:00	1.48	0.53	1.03	1.05	1.15	0.55	1.23	1.20
6/1/2014 9:30	1.46	0.53	1.02	1.05	1.13	0.55	1.23	1.19
6/1/2014 10:00	1.43	0.53	1.03	1.06	1.11	0.55	1.22	1.19
6/1/2014 10:30	1.41	0.53	1.03	1.06	1.10	0.55	1.23	1.18
6/1/2014 11:00	1.40	0.53	1.03	1.06	1.09	0.55	1.22	1.19
6/1/2014 11:30	1.39	0.53	1.03	1.06	1.08	0.55	1.22	1.19
6/1/2014 12:00	1.38	0.53	1.03	1.06	1.08	0.55	1.22	1.18
6/1/2014 12:30	1.37	0.53	1.03	1.06	1.07	0.55	1.22	1.19
6/1/2014 13:00	1.36	0.53	1.03	1.06	1.07	0.55	1.22	1.19
6/1/2014 13:30	1.36	0.53	1.03	1.06	1.06	0.55	1.22	1.18
6/1/2014 14:00	1.33	0.47	0.88	0.89	1.04	0.51	1.13	1.08
6/1/2014 14:30	0.63	0.30	0.45	0.44	0.49	0.30	0.50	0.49
6/1/2014 15:00	0.56	0.23	0.39	0.37	0.46	0.27	0.45	0.45
6/1/2014 15:30	0.56	0.22	0.38	0.36	0.45	0.26	0.45	0.45
6/1/2014 16:00	0.47	0.17	0.29	0.28	0.56	0.33	0.57	0.57
6/1/2014 16:30	0.24	0.10	0.15	0.11	0.59	0.33	0.61	0.60
6/1/2014 17:00	0.25	0.10	0.15	0.11	0.60	0.34	0.63	0.62
6/1/2014 17:30	0.25	0.10	0.15	0.11	0.63	0.35	0.66	0.65
6/1/2014 18:00	0.25	0.11	0.15	0.12	0.66	0.36	0.70	0.68
6/1/2014 18:30	0.28	0.10	0.17	0.14	0.85	0.47	0.94	0.92
6/1/2014 19:00	0.19	0.07	0.11	0.08	0.98	0.51	1.09	1.06
6/1/2014 19:30	0.21	0.04	0.12	0.09	1.00	0.54	1.16	1.12
6/1/2014 20:00	0.21	0.04	0.12	0.09	1.01	0.54	1.16	1.13
6/1/2014 20:30	0.21	0.04	0.12	0.09	1.01	0.54	1.16	1.12
6/1/2014 21:00	0.21	0.04	0.12	0.09	1.02	0.54	1.16	1.13
6/1/2014 21:30	0.21	0.04	0.12	0.09	1.03	0.54	1.16	1.13
6/1/2014 22:00	0.21	0.04	0.12	0.09	1.03	0.53	1.16	1.13
6/1/2014 22:30	0.21	0.04	0.12	0.09	1.04	0.54	1.16	1.13
6/1/2014 23:00	0.21	0.04	0.12	0.09	1.04	0.54	1.16	1.13
6/1/2014 23:30	0.21	0.04	0.12	0.09	1.05	0.54	1.16	1.13

Preliminary Data from Central Monitoring System

Date and Time	Filter Bank 41-B-856 (in wg*)				Filter Bank 41-B-857 (in wg*)			
	MOD	HIGH	HEPA 1	HEPA 2	MOD	HIGH	HEPA 1	HEPA 2
6/2/2014 0:00	0.21	0.04	0.12	0.09	1.06	0.54	1.16	1.13

*in wg - inches of water gauge

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

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
Introduction	The WIPP facility is owned and co-operated by the U.S. Department of Energy (DOE) and co-operated by its designated Management and Operating Contractor (MOC) (Permit Section 1.5.3). This Contingency Plan was prepared in accordance with the Resource Conservation and Recovery Act (RCRA) requirements codified in 20.4.1.500 NMAC (incorporating 40 CFR §264.50 to §264.56), "Contingency Plan and Emergency Procedures," and submitted in compliance with 20.4.1.900 NMAC (incorporating 40 CFR §270.14(b)(7)). The purpose of this document is to define responsibilities, to describe coordination of activities, and to minimize hazards to human health and the environment from fires, explosions, or any sudden or nonsudden release of hazardous waste, or hazardous waste constituents to air, soil, or surface water (20.4.1.500 NMAC (incorporating 40 CFR §264.51 [a])). This plan consists of descriptions of processes and emergency responses specific to hazardous substances, contact-handled (CH) and remote-handled (RH) transuranic (TRU) mixed waste and other hazardous waste handled at the WIPP facility.	Descriptive text.	No actions required.
D-1 General Information	The WIPP facility is located 26 miles (mi) (42 kilometers [km]) east of Carlsbad, in Eddy County in southeastern New Mexico, and includes an area of 10,240 acres (ac) (4,144 hectares [ha]). The facility is located in an area of low-population density, with fewer than 30 permanent residents living within a 10 mi (16 km) radius of the facility. The area surrounding the facility is used primarily for grazing, potash mining, and mineral exploration. Resource development that would affect WIPP facility operations or the long-term integrity of the facility is not allowed within the 10,240 ac (4,144 ha) that have been set aside for the WIPP Project. The WIPP facility is designed to receive containers of TRU waste, which will be transported to the WIPP facility from the ten major and other minor DOE TRU mixed waste generator and/or storage sites. The waste will be emplaced in the bedded salt of the Salado Formation, 2,150 feet (ft) (655 meters [m]) below ground surface. As a geologic facility for the management of TRU mixed waste, the WIPP repository is regulated as a "miscellaneous unit," as defined under 20.4.1.500 NMAC (incorporating 40 CFR §264.601 to §264.603). The areas at the WIPP facility subject to this permit include the surface container storage areas in the Waste Handling Building (WHB) Container Storage Unit (WHB Unit) and the Parking Area Container Storage Unit (Parking Area Unit), located south of the WHB, and the areas below ground in which waste will be emplaced. The WIPP facility includes other surface structures, shafts, and underground areas (Figures D-1, D-2, and D-3). Surface structures other than the WHB, that	Descriptive text.	No actions required.

RCRA Contingency Plan Section	RCRA Contingency Plan Text	Applicability to the February 14, 2014, Event	Current Status/Schedule/Deviations
	support TRU mixed waste management include: Exhaust Filter Building - houses the filter banks to which the underground ventilation can be diverted in the unlikely event of an underground release of radionuclides. Guard and Security Building - houses the facility security personnel and communications equipment necessary for them to perform their duties. Section D-4a specifies the duties of the security officers relative to contingency actions. Safety and Emergency Services Building - houses the surface emergency response vehicles (fire truck, rescue truck, ambulance), Health Services (first aid), Emergency Operations Center, and the Dosimetry Laboratory. The Hazardous Material Response Trailer is staged at the WIPP facility in an area that is readily accessible to Emergency Services. Emergency Services is located in Building 452. Table D-6 describes emergency equipment and associated locations. Support Building - houses the Central Monitoring Room (see section D-4a). Transuranic Package Transporter-II (TRUPACT-II) Maintenance Facility - is located west of the CH bay. No TRU mixed waste management activities will occur in this facility. Surface facilities used for storage of support equipment are identified in Table D-6. Building 452, Safety and Emergency Services Facility, houses the emergency response vehicles, emergency equipment, the mine rescue room, mine rescue team equipment, and the Emergency Operations Center (EOC). The Hazardous Material Response Trailer is staged at the WIPP facility in an area readily accessible to Emergency Services. Emergency Services is located in Building 452. The RCRA permit addresses TRU mixed waste management activities in the WHB Unit, the Parking Area Unit, and the disposal units. The provisions of this Contingency Plan apply to hazardous waste disposal units (HWDU) in the underground waste disposal panels, storage in the WHB Unit and the Parking Area Unit, the Waste Shaft, and supporting TRU mixed waste handling areas. The remainder of the facility will not manage TRU mixed waste.		

RCRA Contingency Plan Section	RCRA Contingency Plan Text	Applicability to the February 14, 2014, Event	Current Status/Schedule/Deviations
D-1 General Information	This Contingency Plan has also been designed in accordance with 20.4.1.300 NMAC (incorporating 40 CFR § 262.34(a)(4) - Standards for Generators of Hazardous Waste), and will be implemented whenever there is a fire, explosion, or release of hazardous waste which could threaten human health or the environment.	Since the radiation event on February 14, 2014, was related to disposed waste and occurred in an underground HWDU, certain provisions of the Contingency Plan are applicable.	The Contingency Plan was implemented on April 11, 2014.
D-1 General Information	Hazardous substances in the remainder of the facility are included as possible triggers of the Contingency Plan but are outside the scope of the regulations promulgated pursuant to RCRA. This allows WIPP to maintain one emergency response plan which is consistent with the National Response Teams Integrated Contingency Plan Guidance (Federal Register, Vol. 61, No. 109, June 5, 1996). Inclusion is based on their National Fire Protection Association (NFPA) ratings in addition to their storage quantities. The majority of hazardous substances on-site are not expected to trigger the Contingency Plan because they are present in the same form and concentration as the product packaged for distribution and use by the general public or are used in a laboratory under the direct supervision of a technically qualified individual. Superfund Amendments and Reauthorization Act (SARA) Title III excludes these from emergency planning reporting. The list of hazardous substances in large enough quantities to constitute a Level II incident (Section D-3) is provided in Table D-1. In addition to TRU mixed waste, these are the only hazardous substances currently on site which, if spilled, may be of sufficient impact to cause this Contingency Plan to be implemented. Magnesium Oxide (MgO) is stored on-site in large quantities. It is used as backfill in the waste emplacement rooms as a pH buffer. The pH buffer will limit the solubility of radionuclides after the underground rooms are filled and closed. MgO is not a hazardous substance, a release of MgO will not create hazardous waste and poses no threat to human health or the environment, and is therefore not addressed in the Contingency Plan.	Descriptive text.	No actions required.
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.	No category 3 site derived waste has been generated to date. Categories 1 and 2 are not regulated by this Permit.

RCRA Contingency Plan Section	RCRA Contingency Plan Text	Applicability to the February 14, 2014, Event	Current Status/Schedule/Deviations
D-1 General Information	Disposal of TRU mixed waste in the WIPP facility is subject to regulation under 20.4.1.500 NMAC. As required by 20.4.1.500 NMAC (incorporating 40 CFR §264.601), the Permittees will demonstrate that the environmental performance standards for a miscellaneous unit, which are applied to the HWDUs in the underground, will be met. In addition, the technical requirements of 20.4.1.500 NMAC (incorporating 40 CFR §264.170 to §264.178) are applied to the operation of the container storage units in the WHB Unit and in the Parking Area Unit south of the WHB.	Descriptive text.	No actions required.
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-1 General Information	This chapter of the permit application describes the HWDUs, the TRU mixed waste management facilities and operations, compliance with the environmental performance standards, and with the applicable technical requirements of 20.4.1.500 NMAC (incorporating 40 CFR §264.170 to §264.178 and §264.601, respectively). The configuration of the WIPP facility consists of completed structures; including all buildings and systems for the operation of the facility.	Descriptive text.	No actions required.
D-1a Disposal Phase Overview	The Disposal Phase will consist of receiving CH TRU mixed waste shipping containers, unloading and transporting the waste containers to the underground HWDUs, emplacing the waste in the underground HWDUs, and subsequently achieving closure of the underground HWDUs in compliance with applicable State and Federal regulations. The TRU mixed waste that will be disposed at the WIPP facility results primarily from activities related to the reprocessing of plutonium-bearing reactor fuel and fabrication of plutonium-bearing weapons, as well as from research and development. This TRU mixed waste consists largely of such items as paper, cloth, and other organic material; laboratory glassware and utensils; tools; scrap metal; shielding; and solidified sludges from the treatment of wastewater. Much of this TRU mixed waste is also contaminated with substances that are defined as hazardous under 20.4.1.200 NMAC.	Descriptive text.	No actions required.

RCRA Contingency Plan Section	RCRA Contingency Plan Text	Applicability to the February 14, 2014, Event	Current Status/Schedule/Deviations
D-1b Waste Description	Waste destined for WIPP are, or were, produced as a byproduct of weapons production and have been identified in terms of waste streams based on the processes that produced them. Each waste stream identified by generators is assigned to a Waste Summary Category to facilitate RCRA waste characterization, and reflect the final waste forms acceptable for WIPP disposal. These Waste Summary Categories are: S3000—Homogeneous Solids Solid process residues defined as solid materials, excluding soil, that do not meet the applicable regulatory criteria for classification as debris (20.4.1.800 NMAC (incorporating 40 CFR §268.2[g] and [h])). Included in solid process residues are inorganic process residues, inorganic sludges, salt waste, and pyrochemical salt waste. Other waste streams are included in this Waste Summary Category based on the specific waste stream types and final waste form. This category includes wastes that are at least 50 percent by volume solid process residues. S4000—Soils/Gravel This waste summary category includes waste streams that are at least 50 percent by volume soil. Soils are further categorized by the amount of debris included in the matrix. S5000—Debris Wastes This waste summary category includes waste that is at least 50 percent by volume materials that meet the criteria for classification as debris (20.4.1.800 NMAC (incorporating 40 CFR §268.2)). Debris is a material for which a specific treatment is not provided by 20.4.1.800 NMAC (incorporating 40 CFR §268 Subpart D), including process residuals such as smelter slag from the treatment of wastewater, sludges or emission residues. Debris means solid material exceeding a 2.36 inch (60 millimeter) particle size that is intended for disposal and that is: 1) a manufactured object, 2) plant or animal matter, or 3) natural geologic material. Included in the S5000 Waste Summary Category are metal debris, lead containing metal debris, inorganic nonmetal debris, asbestos debris, combustible debris, graphite debris, heterogeneous debris, and composite filters, as well as other minor waste streams. Particles smaller than 2.36 inches in size may be considered debris if the debris is a manufactured object and if it is not a particle of S3000 or S4000 material. Examples of waste that might be included in the S5000 Waste Summary Category are asbestos-containing gloves, fire hoses, aprons, flooring tiles,	Descriptive text	No actions required.

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	pipe insulation, boiler jackets, and laboratory tabletops. Also included are combustible debris constructed of plastic, rubber, wood, paper, cloth, graphite, and biological materials. Examples of graphite waste that would be included are crucibles, graphite components, and pure graphite. Wastes may be generated at the WIPP facility as a direct result of managing the TRU and TRU mixed wastes received from the off-site generators. Such generated waste may occur in either the WHB Unit or the Underground. For example, when TRU mixed wastes are received at the WHB Unit, the CH or RH Package shipping containers and the TRU mixed waste containers are checked for surface contamination. Under some circumstances, if contamination is detected, the shipping container and/or the TRU mixed waste containers will be decontaminated. In the underground, waste may be generated as a result of radiation control procedures used during monitoring activities.		
D-1b Waste Description	The waste generated from radiation control procedures will be assumed to be TRU and/or TRU mixed waste. Throughout the remainder of this plan, this waste is referred to as “derived waste.” All such derived waste will be placed in the rooms in HWDUs along with the TRU mixed waste for disposal.	The required activities described in this section are NOT applicable to the current implementation of the RCRA Contingency Plan because they pertain to normal or routine operations	No actions required. This section of text applies to derived waste generated as a result of routine operations associated with radiation control procedures such as container survey.
D-1c Containers	The waste containers that will be used at the WIPP facility qualify as “containers,” in accordance with 20.4.1.101 NMAC (incorporating 40 CFR §260.10). That is, they are “portable devices in which a material is stored, transported, treated, disposed of, or otherwise handled.” TRU mixed waste containers, containing off-site waste, will not be opened at the WIPP facility. Derived waste containers are kept closed at all times unless waste is being added or removed. Waste, including “derived waste,” containing liquid in excess of TSDF-WAC limits shall not be emplaced in the WIPP (See Permit Attachment C, Section C-1c). Special requirements for ignitable, reactive, and incompatible waste are addressed in 20.4.1.500 NMAC (incorporating 40 CFR §§264.176 and 177). The RCRA Permit Treatment, Storage, and Disposal Facility Waste Acceptance Criteria (TSDF-WAC) precludes ignitable, reactive, or incompatible TRU mixed waste from being placed into storage or disposed of at WIPP.	Descriptive text.	No actions required.

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D-1d Description of Containers	CH TRU mixed waste containers will be either 55-gallon (gal) (208-liter (L)) drums singly or arranged into seven (7)-packs, 85-gal (322-L) drums (used as singly or arranged into four (4)-packs, 100-gal (379 L) drums singly or arranged into three (3)-packs, ten-drum overpacks (TDOP), 66.3 ft^3 (1.88 m^3) SWBs, or standard large box 2s (SLB2). RH TRU mixed waste containers are either canisters or drums. Canisters will be loaded singly in an RH-TRU 72-B cask and drums will be loaded in a CNS 10-160B cask. Drums in the CNS 10-160B cask will be arranged singly or in drum carriage units containing up to five drums each. Canisters and drums are described in Permit Attachment M1. Remote-Handled TRU mixed waste may arrive in shielded containers with an internal capacity of 4.0 ft^3 (0.11 m^3). Shielded containers will be arranged as three-packs.	Descriptive text.	No actions required.
D-1e Description of Surface Hazardous Waste Management Units	The WHB is the surface facility where waste handling activities will take place. The WHB has a total area of approximately 84,000 square feet (ft^2) (7,804 square meters [m^2]) of which 49,710 ft^2 (4,618 m^2) are designated as the WHB Unit for TRU mixed waste management. Within the WHB Unit, 32,307 ft^2 (3,001 m^2) are designated for the waste handling and container storage of CH TRU mixed waste and 17,403 ft^2 (1,617 m^2) are designated for the handling and storage of RH TRU mixed waste. These areas are being permitted as container storage units. The concrete floors within the WHB Unit are sealed with an impermeable coating that has excellent resistance to the chemicals in TRU mixed waste and, consequently, provide secondary containment for TRU mixed waste. In addition, a Parking Area Unit south of the WHB will be used for storage of waste in sealed shipping containers awaiting unloading. This area is also being permitted as a container storage unit. The sealed shipping containers provide secondary containment in this hazardous waste management unit (HWMU).	Descriptive text.	No actions required.
D-1e(1) CH Bay Operations	Once unloaded from the Contact-Handled Package, CH TRU mixed waste containers (3-pack of shielded containers, 7-packs of 55-gal drums, 3-packs of 100-gal drums, 4-packs of 85-gal drums, SWBs, TDOPs, or one SLB2) are placed on the facility pallet. The waste containers are stacked on the facility pallets (one- or two-high, depending on weight considerations). The use of facility pallets will elevate the waste at least 6 inches (in.) (15 centimeters [cm]) from the floor surface. Pallets of waste will then be stored in the CH bay. This storage area will be clearly marked to indicate the lateral limits of the storage area. This storage area will have a maximum capacity of thirteen facility pallets of waste during normal operations. These pallets will typically be in the CH Bay storage area for a period of up to five days.	Descriptive text.	No actions required.

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	In addition, four Contact-Handled Packages, containing up to 640 ft^3 of CH TRU waste in containers, may occupy positions at the TRUPACT-II Unloading Docks (TRUDOCK). Aisle space shall be maintained in all CH Bay waste storage areas. The aisle space shall be adequate to allow unobstructed movement of fire response personnel, spill-control equipment, and decontamination equipment that would be used in the event of an off-normal event. An aisle space between facility and containment pallets will be maintained in all CH TRU mixed waste storage areas.		
D-1e(2) RH Complex Operations	Loaded RH TRU casks are received in the RH Bay of the WHB. The RH Bay is served by an overhead bridge crane used for cask handling and maintenance operations. Storage in the RH Bay occurs in the RH-TRU 72-B or CNS 10-160B casks. A maximum of two loaded casks may be stored in the RH Bay and a maximum of one cask in the Cask Unloading Room may be stored at one time. A minimum of 44 inches (1.1 m) will be maintained between loaded casks in the RH Bay. The cask serves as secondary containment in the RH Bay for the RH TRU mixed waste payload container. In addition, the RH Bay has a concrete floor. Single RH TRU mixed waste canisters are unloaded from the RH-TRU 72-B casks in the Transfer Cell of the RH Complex where they are transferred to facility casks. Drums of RH TRU mixed waste will be transferred remotely from the CNS 10-160B cask, into the Hot Cell, and loaded into a canister. Storage in the Hot Cell occurs in either drums or canisters. A maximum of 12 55-gallon drums of RH TRU mixed waste and one 55-gallon drum of derived waste (94.9 ft^3 (2.7 m^3)) may be stored in the Hot Cell. Except for the derived waste drum, individual 55-gallon drums may not be stored in the Hot Cell for more than 25 days. The Transfer Cell houses the Transfer Cell Shuttle Car, which is used to facilitate transferring the canister to the facility cask. Storage in this area typically occurs at the end of a shift or in an off-normal event that results in the suspension of waste handling. A maximum of one canister (31.4 ft^3 (0.89 m^3)) may be stored in the Transfer Cell in a shielded insert in the Transfer Cell Shuttle Car or in a RH-TRU 72-B cask. The Facility Cask Loading Room provides for transfer of a canister to the facility cask for subsequent transfer to the waste shaft conveyance and to the Underground Hazardous Waste Disposal Unit. The Facility Cask Loading Room also functions as an air lock between the waste shaft and the Transfer Cell. Storage in this area typically occurs at the end of a shift or in an off-normal event that results in the suspension of waste handling. A maximum of one canister (31.4 ft^3 (0.89 m^3)) may be stored in the Facility Cask in the Facility Cask Loading Room.	Descriptive text.	No actions required.

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	Derived waste will be stored in the RH Bay and in the Hot Cell.		
D-1e(3) Parking Area Container Storage Unit (Parking Area Unit)	The area extending south from the WHB within the fenced enclosure identified as the Controlled Area on Figure A1-2 is defined as the Parking Area Container Storage Unit. This area provides storage for up to 6,734 ft^3 (191 m^3) of CH and/or RH TRU mixed waste contained in up to 40 loaded Contact-Handled Packages and 8 Remote-Handled Packages. Secondary containment and protection of the waste containers from standing rainwater are provided by the transportation containers. Up to 12 additional Contact-Handled Packages and four additional Remote-Handled Packages may be stored in the Parking Area Surge Area so long as the requirements of Permit Sections 3.1.2.3 and 3.1.2.4 are met. No more than 50 Contact-Handled and 12 Remote-Handled Packages may be stored in the Parking Area Storage Unit. The safety criteria for Contact-Handled and Remote-Handled Packages require that they be opened and vented at a frequency of at least once every 60 days. During normal operations, Contact-Handled and Remote-Handled Packages will not require venting while located in the Parking Area Unit. Any off-normal event which results in the need to store a waste container in the Parking Area Unit for a period of time approaching fifty-nine (59) days shall be mitigated by returning the shipment to the generator prior to the expiration of the 60 day NRC venting period or by moving the Contact-Handled or Remote-Handled Package inside the WHB Unit where the waste will be removed and placed in one of the permitted storage areas or in the underground hazardous waste disposal unit.	Descriptive text.	No actions required.
D-1f Off-Normal Events	Off-normal events could interrupt normal operations in the waste management process line. Shipments of waste from the generator sites will be stopped in any event which results in an interruption to normal waste handling operations that exceeds three days.	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	An evaluation was conducted to determine that normal operations would exceed three days. Therefore, shipments of waste were stopped.
D-1g Containment	The WHB Unit has concrete floors, which are sealed with a coating designed to resist all but the strongest oxidizing agents. Such oxidizing agents do not meet the TSDF-WAC and will not be accepted in TRU mixed waste at the WIPP facility. Therefore, TRU mixed wastes pose no compatibility problems with respect to the WHB Unit floor. During normal operations, the floor of the normal storage areas within the CH Bay and RH Complex shall be visually inspected on a weekly basis to verify that it is in good condition and free of obvious cracks and gaps. When a RH TRU mixed waste container is present in the RH Complex, inspections will be conducted visually and/or using closed-circuit television cameras in order to manage worker dose and minimize radiation exposures. Manual inspections of	Descriptive text.	No actions required.

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	the areas are performed at least annually during routine maintenance periods when waste is not present. Floor areas of the WHB used during off-normal events will be inspected prior to use and weekly while in use. Containers located in the permitted storage areas shall be elevated from the surface of the floor. Facility pallets provide at least 6 in (15 centimeters [cm]) of elevation from the surface of the floor. TRU mixed waste containers that have been removed from Contact-Handled or Remote-Handled Packages shall be stored at a designated storage area inside the WHB so as to preclude exposure to the elements. Secondary containment at permitted storage areas inside the WHB Unit shall be provided by the floor. The Parking Area Unit and TRUDOCK storage area of the WHB Unit do not require engineered secondary containment, since waste is not stored there unless it is protected by the Contact-Handled or Remote-Handled Packaging. Floor drains, the fire suppression water collection sump, and portable dikes, if needed, will provide containment for liquids that may be generated by fire fighting. Sump capacities and locations are shown in Drawing 41-F-087-014. Residual fire fighting liquids will be placed in containers and managed as described above. Secondary containment at storage locations inside the RH Bay, Cask Unloading Room, Transfer Cell, and Facility Cask Loading Room is provided by the cask or canisters that contain drums of RH TRU mixed waste. In the Hot Cell, secondary containment is provided by the Hot Cell subfloor. In addition, the RH Complex contains a 220-gallon (833-L) sump in the Hot Cell, a 11,400-gallon (43,152-L) sump in the RH Bay, and a 220-gallon (833-L) sump in the Transfer Cell to collect any liquids.		
D-2 Response Personnel	Persons qualified to act as the RCRA Emergency Coordinator, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.55), are listed in Table D-2. A RCRA Emergency Coordinator will be on-site at the WIPP facility 24 hours a day, seven days a week, with the responsibility for coordinating emergency response measures. RCRA Emergency Coordinators are listed in Table D-2, where four individuals have been designated primary RCRA Emergency Coordinators. This is because the on-duty Facility Shift Manager (FSM) is designated as the RCRA Emergency Coordinator. The four individuals shown serve as FSM on a rotating shift basis. Persons qualified to act as the RCRA Emergency Coordinator are thoroughly familiar with this Contingency Plan, the TRU mixed waste and hazardous waste operations and activities at the WIPP facility, the locations of TRU mixed waste and hazardous waste activities, the locations on the site where hazardous materials are stored and used, and the locations of waste staging and accumulation areas. They are familiar with the characteristics of hazardous	At the time of the April 11, 2014, implementation of the RCRA Contingency Plan, all of the personnel listed in this section were trained and available to assist with emergencies.	Response Personnel have been identified and trained in accordance with Attachments F, F1, and F2 of the Permit and the WIPP training plan. Training Records are on file at the facility. Note that not all personnel listed were used to carry out this implementation of the RCRA Contingency Plan. Only the FSM (RCRA Emergency Coordinator) and CMRO are applicable to this implementation of the RCRA Contingency Plan.

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	substances, TRU mixed waste and hazardous waste handled at the WIPP facility, the location of TRU mixed waste and hazardous waste records within the WIPP facility, and the facility layout. In addition, persons qualified to act as the RCRA Emergency Coordinator have the authority to commit the necessary resources to implement this Contingency Plan. Figure D-4 outlines the RCRA Emergency Coordinator's position relative to other organizations that provide support. In addition to the RCRA Emergency Coordinator, the following individuals or groups have specified responsibilities during any WIPP facility emergency: • Assistant Chief Office Warden (ACOW)—Persons assigned to take accountability for sections of the site, and then reporting the accountability to the Chief Office Warden. • Central Monitoring Room Operator (CMRO)—The on-shift operator responsible for Central Monitoring Room (CMR) operations, including coordination of facility communications. The facility log is maintained by the CMRO. • Chief Office Warden (COW)—A predesignated individual with responsibilities for complete surface accountability at staging areas in the event of an evacuation. The Chief Office Warden receives reports from the ACOWs. • Emergency Response Team (ERT)—Supplemental group trained to respond to surface emergencies, to provide emergency first aid, and to respond to releases of hazardous waste or hazardous material. ERT members are part of the WIPP Supplemental Emergency Response Program. • Emergency Services Technician (EST)/Fire Protection Technician (FPT)—Regular employee whose job is that of full-time emergency responder. During non-emergency conditions, the EST/FPT inspects facility fire suppression systems and emergency equipment. The EST/FPT completes specific sections of the "WIPP Hazardous Material Incident Report." Additional technical personnel complete identified sections of the report. • Fire Brigade—The fire brigade is a team of five personnel who respond to site emergencies. The team consists of an Incident Commander and four fire fighters. The fire fighters are trained in accordance with NFPA Standards for Industrial Fire Brigades (Fire Brigades that perform both advanced exterior and interior structural fire fighting). • First Line Initial Response Team (FLIRT)—Supplemental primary		

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	responders in the event of a general underground emergency for medical and hazardous material response. The FLIRT also provides backup support for the ERT in the event of a general surface-facility emergency. FLIRT members are part of the WIPP Supplemental Emergency Response Program. • Mine Rescue Team (MRT)—Supplemental group responsible for underground reentry and rescue after an emergency evacuation. The MRT responds in accordance with 30 CFR Part 49 requirements. MRT members are part of the WIPP Supplemental Emergency Response Program. • Office Warden—An individual assigned responsibility for assuring that personnel are evacuated from his/her assigned area or building during evacuations. Office Wardens maintain a list of all personnel in their specific area. This list is compared with the physical presence of personnel who assemble at the staging areas. The Office Wardens report area accountability to the ACOWs. • EOC Staff – The EOC consists of a minimum staff of three MOC management positions (the Crisis Manager, a Safety Representative and an Operations Representative) to activate the EOC. The full EOC Staff includes the Crisis Manager, the Deputy Crisis Manager, a Safety Representative, an Operations Representative and the EOC Coordinator. Additional technical and logistics personnel will provide support as necessary. The EOC is activated by the FSM. Since EOC staff are performing duties similar to their normal job functions and providing support related to their area of expertise, no specific RCRA training is required.		
D-3 Implementation	The provisions of this Contingency Plan will be implemented immediately whenever there is an emergency event (e.g., a fire, an explosion, or a natural occurrence that involves or threatens hazardous or TRU mixed wastes or a release of hazardous substances, hazardous materials, or hazardous wastes) that could threaten human health or the environment, or whenever the potential for such an event exists as determined by the RCRA Emergency Coordinator, as required under 20.4.1.500 NMAC (incorporating 40 CFR §264.51(b)). The following information is utilized for categorization of events to determine implementation of the Contingency Plan: 1. Medical Emergencies (does not implement the Contingency Plan) 2. Non-emergency (does not implement the Contingency Plan) a. Fire already out, did not involve any hazardous materials.	The required activities described in this section are applicable to any emergency event at the WIPP Facility. However, when the February 14, 2014, radiation event occurred, the RCRA Emergency Coordinator evaluated these criteria and determined that this event did not meet criteria that would initiate implementation	The Permittees made the decision to implement the plan prior to re-entry into the underground HWDUs. The RCRA Contingency Plan was implemented on April 11, 2014.

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	b. Spill or release involved materials excluded according to the SARA Title III, Statute 42 U.S.C. 11021 (e). Such as: 1) Any substance present in the same form and concentration as product packaged for distribution and use by the general public. (Example: Cleaning solutions) 2) Any substance to the extent it is used in a laboratory under the direct supervision of a technically qualified individual. 3) Petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance by Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). 3. Incident Level I: According to the NFPA 471, Responding to Hazardous Materials Incidents (See Table D-3). If the product(s) involved in the fire, explosion, spill or leakage meets the following criteria, it will be classified as a Level I incident and does not implement the Contingency Plan. a. The product does not require a U.S. Department of Transportation (DOT) placard, is a NFPA listed 0 or 1 for all categories, or is Other Regulated Materials A, B, C, or D. b. The fire is under control and the reactivity rating of the material is less than a rating 2, indicating a low potential for subsequent explosion as the hazardous material can be considered normally stable. c. There was no release or the release can be confined with readily available resources. d. There is no life-threatening situation. e. There is no potential environmental impact. 4. Incident Level II: According to NFPA 471, Responding to Hazardous Materials Incidents, (See Table D-3). If the product(s) involved in the fire, explosion, spill or leakage meets the following criteria, it will be classified as a Level II incident and the Contingency Plan will be implemented by the RCRA Emergency Coordinator. a. The product requires a DOT placard, is an NFPA 2 for any categories, or is Environmental Protection Agency (EPA) regulated waste (Site-specific: Table D-1 and TRU mixed waste) AND b. The incident involves multiple packages. c. There is potential for the fire to spread since the hazardous material's flammability level (rating 2) is below 200 degrees Fahrenheit, or the reactivity (rating 2) indicates that violent chemical changes are	of the RCRA Contingency Plan.	

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	possible and thus may be explosive. d. The release may not be controllable without special resources. e. The incident requires evacuation of a limited area for life safety. f. The potential for environmental impact is limited to soil and air within incident boundaries. g. The container is damaged but able to contain the contents to allow handling or transfer of product. 5. Incident Level III: According to NFPA 471, Responding to Hazardous Materials Incidents (See Table D--3). If the product(s) involved in the fire, explosion, spill or leakage meet the following criteria, it will be classified as a Level III incident and the Contingency Plan will be implemented by the RCRA Emergency Coordinator. a. The product is a poison A (gas), an explosive A/B, organic peroxide, flammable solid, material that is dangerous when wet, chlorine, fluorine, anhydrous ammonia, NFPA 3 and 4 for any categories including special hazards, EPA extremely hazardous substances, and cryogenics. b. The site-specific container size for this incident level will be a tank truck. c. There is potential for the fire to spread since the hazardous material's flammability level (rating 3 or 4) is below 100 degrees Fahrenheit, or the reactivity (rating 3 or 4) indicates that the material may explode. d. The release may not be controlled even with special resources. e. The incident requires mass evacuation of a large area for life safety. f. Even though the NFPA guidelines for this incident level indicate that the potential for environmental impact is severe, due to the site engineering controls, the impact is contained within the HWMUs. g. The container is damaged to such an extent that catastrophic rupture is possible. The above categories include fire situations, weather conditions, natural phenomena, and explosions which will have to be evaluated to make an incident level determination. A Level II (potential threat to human health in localized area, potential for moderate on-site environmental impact) or Level III (potential threat to human health in a larger area, potential for severe environmental impact) incident by definition is considered to be a potential threat to human health or the environment and, therefore, is considered to be an emergency requiring activation of the Contingency Plan.		

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D-4 Emergency Response Method	Methods that describe how and when the WIPP Contingency Plan will be implemented cover the following 11 implementation areas: 1. Notification (Section D-4a) 2. Identification of hazardous materials (Section D-4b) 3. Assessment of the nature and extent of the emergency (Section D-4c) 4. Control, containment, and correction of the emergency (Section D-4d) 5. Prevention of recurrence or spread of fires, explosions, or releases (Section D-4e) 6. Management and containment of released material and waste (Section D-4f) 7. Incompatible waste (Section D-4g) 8. Post-emergency facility and equipment maintenance and reporting (Section D-4h) 9. Container spills and leakage (Section D-4i) 10. Tank spills and leakage (Section D-4j) 11. Surface impoundment spills and leakage (Section D-4k)	This section describes Section D-4 contents.	No actions required.
D-4a Notification	Notification requirements in the event of an emergency at a RCRA hazardous waste management facility are defined by 20.4.1.500 NMAC (incorporating 40 CFR §§264.56(a) and (d)). Necessary notifications in case of an emergency at the WIPP facility are described in this section (Figure D-4a). Personnel at the WIPP facility are trained to respond to emergency notifications.	This section describes the necessary notifications that follow.	No actions required.
D-4a(1) Initial Emergency Response and Alerting the RCRA Emergency Coordinator	The first person to become aware of an incident shall immediately report the situation to the CMRO, and provide the following information, as appropriate: • Name and telephone number of the caller • Location of the incident and the caller • Time and type of incident • Severity of the incident • Magnitude of the incident • Cause of the incident • Assistance needed to deal with or control the incident • Areas or personnel affected by the incident In addition to receiving incident reports, the CMRO continuously monitors (24 hours a day) the status of mechanical, electrical, and/or radiological conditions at	The required activities described in this section are NOT applicable to this implementation of the RCRA Contingency Plan. The initial notifications were completed as a result of the radiological release.	Initial notifications completed prior to the April 11, 2014, implementation of the RCRA Contingency Plan.

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	selected points on the site, both above and below ground. Alarms to indicate abnormal conditions are located throughout the WIPP facility. The alarm(s) (e.g., fire, radiation) may be the first notification of an emergency situation received by the CMRO. The CMRO monitors alarms, takes telephone calls and radio messages, and initiates outgoing calls to emergency staff and outside agencies. Once the CMRO is notified of a fire, explosion, or a release anywhere in the facility (either by eyewitness or an alarm), the RCRA Emergency Coordinator is immediately notified. Once notified, the RCRA Emergency Coordinator assumes responsibility for the management of activities related to the assessment, abatement, and/or cleanup of the incident. A RCRA Emergency Coordinator is on-site at all times and, therefore, can be reached at any time via a two-way radio or over the public address (PA) and plectrons on-site. If the RCRA Emergency Coordinator is unavailable or unable to perform these duties, a qualified alternate RCRA Emergency Coordinator is available. The EST/FPT is also notified in case of fire, explosion, or release. The RCRA Emergency Coordinator, as incident commander, determines if supplemental emergency responders are necessary. Notification of the ERT (surface) is made by using the ERT pagers and/or the public announcement system. Notification of the FLIRT is by using the Mine Page Phone System. If the MRT is needed the RCRA Emergency Coordinator will instruct the CMRO to make a PA announcement for the MRT to assemble in the Mine Rescue Room, located in a predetermined location. Off-shift personnel may be notified using the on-call list, which is updated weekly by the Permittees. The FSM/CMRO, each individual on the on-call list, and WIPP Security receive copies of the on-call list. The CMRO may direct Security to make the notifications. The response to an unplanned event will be performed in accordance with procedures based on the applicable Federal, State, or local regulations and/or guidelines for that response. These include the U.S. Mine Safety and Health Administration (MSHA); NMAC; CERCLA; Chapter 74, Article 4B, New Mexico Statutes Annotated 1978, New Mexico Emergency Management Act; and agreements between the Permittees and local authorities (Section D-6) for emergencies throughout the WIPP facility. After notification by the CMRO, the EST/FPT shall immediately investigate to determine pertinent information relevant to the actual or potential threat posed to human health or the environment. The information will include the location of release, type, and quantity of spilled or released material (or potential for release due to fire, explosion, weather conditions, or other naturally occurring		

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	phenomena), source, areal extent, and date and time of release. The EST/FPT shall provide information for classification of the incident, according to the emergency response guidelines, to the RCRA Emergency Coordinator. The RCRA Emergency Coordinator then classifies the incident after evaluation of all pertinent information. This classification will consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions). When the RCRA Emergency Coordinator determines that an Incident Level II or III has occurred, the Contingency Plan is implemented. The RCRA Emergency Coordinator then may choose to activate the EOC for additional support (Figure D-4). If the RCRA Emergency Coordinator determines that due to extenuating circumstances the potential to upgrade to an incident Level II or III exists, the RCRA Emergency Coordinator also may activate the EOC. The EOC will assist the RCRA Emergency Coordinator in mitigation of the incident with use of communications equipment and technical expertise from any WIPP organization (see Section D-4c). The EOC staff will assess opportunities for coordination and the use of mutual-aid agreements with local outside agencies making additional emergency personnel and equipment available (Section D-6), as well as the use of specialized response teams available through various State and Federal agencies. As a DOE-owned facility, the WIPP facility may use the resources available from the Federal Response Plan, signed by 27 Federal departments and agencies in April 1987, and developed under the authorities of the Earthquake Hazards Reduction Act of 1977 (42 U.S.C. 7701 et seq.) and amended by the Stafford Disaster Relief Act of 1988. Most resources are available within 24 hours. The WIPP facility maintains its own emergency response capabilities on-site. In addition to the supplemental emergency responders, radiological control technicians, environmental sampling technicians, wildlife biologists, and various other technical experts are available for use on an as-needed basis.		
D-4a(2) Communication of Emergency Conditions to Facility Employees	Procedures for notifying facility personnel of emergencies depend upon the type of emergency. Methods of notification are: • Local Fire Alarms The local fire alarms sound a bell tone and may be activated automatically or manually in the event of a fire. • Surface Evacuation Signal The evacuation signal is a yelp tone and is manually activated by the	The required activities described in this section are applicable to any emergency at the WIPP facility. All described notification systems were operating at the time of the radiological	Notifications completed prior to the April 11, 2014, implementation of the RCRA Contingency Plan.

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	CMRO when needed. The CMRO shall follow the evacuation signal with verbal instructions and ensure the Site Notification System (i.e., the plectron) has been activated. • Underground Evacuation Warning System The evacuation signal is a yelp tone and flashing strobe light. In the event of an evacuation signal, underground personnel will proceed to the nearest egress hoist station (Section D-7b) to be apprised of the nature of the emergency and the evacuation route to take. Underground personnel are trained to report to the underground assembly areas and await further instruction if all power fails or if ventilation stops. If evacuation of underground personnel is required, this will be done using the backup electric generators and in accordance with the applicable requirements of MSHA. • Contingency Evacuation Notification If the primary warning system consisting of alarms and signals fails to operate when activated (as in a total power outage and failure of the back-up power systems), WIPP Security will be notified by the CMRO to initiate the contingency evacuation plan. In this event Security officers will alert personnel to evacuate the area and will check trailers, if possible, to ensure that personnel have been alerted/evacuated. WIPP facility personnel are trained and given instruction during General Employee Training to recognize the various alarm signals and the significance of each alarm. WIPP facility employees and site visitors are required to comply with directions from emergency personnel and alarm system notifications and to follow instructions concerning emergency equipment, shutdown procedures, and emergency evacuation routes and exits.	event. However, none were needed at the time of this implementation of the RCRA Contingency Plan.	
D-4a(3) Notification of Local, State, and Federal Authorities	If it is determined that the facility has had a fire, an explosion, a spill, or a release of hazardous waste or hazardous waste constituents (included in 20.4.1.200 NMAC (incorporating 40 CFR § 261)) in the miscellaneous unit or TRU mixed waste handling areas, or an emergency resulting in a release of a hazardous substance (included in 40 CFR §302.4 and §302.6 or the New Mexico Emergency Management Act, §74-4B-3 and §74-4B-5) that could threaten human health or the environment outside the facility, the RCRA Emergency Coordinator, after consultation with the DOE as the owner of the facility, will assure that local authorities are notified by telephone and/or radio, including: • Carlsbad Police Department (telephone number: [575] 885-2111) (or 911) • Carlsbad Fire Department (telephone number: [575] 885-2111) (or 911) • Eddy County Sheriff (telephone number: [575] 887-7551)	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	The required notifications were made in accordance with site procedures/work control documents and documented in the 15-day report of implementation required by Section D-8.

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	• Hobbs Fire Department (telephone number: [575] 397-9265) After local authorities are notified, the RCRA Emergency Coordinator will ensure notification of the following: • New Mexico Environment Department (NMED) Department of Public Safety 24-Hour Emergency Reporting Telephone Number: (505) 827-9329 FAX number: (505) 827-9368 • Department of Public Safety WIPP Coordinator Telephone Number: (505) 827-9221 FAX number: (505) 829-3434 • Hazardous Materials Emergency Response, Chemical Safety Office, Department of Public Safety, State Emergency Response Commission Telephone number: (505) 476-9681 FAX number: (505) 476-9695 • National Response Center Telephone number: 1-800-424-8802 FAX number: (202) 479-7181 • Local Emergency Planning Committee Telephone number: (575) 885-3581 Fax number: (575) 628-3973 The first notification of public safety and regulatory agencies will include the following: • The name and address of the facility and the name and phone number of the reporter • The type of incident (fire, explosion, or release) • The date and time of the incident • The type and quantity of material(s) involved, to the extent known • The exact location of the incident • The source of the incident • The extent of injuries, if any • Possible hazards to human health and the environment (air, soil, water, wildlife, etc.) outside the facility • The name, address, and telephone number of the party in charge of or responsible for the facility or activity associated with the incident • The name and the phone number of the RCRA Emergency Coordinator		

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	• The identity of any surface and/or groundwater involved or threatened and the extent of actual and potential water pollution • The steps being taken or proposed to contain and clean up the material involved in the incident The RCRA Emergency Coordinator will also be available to advise the appropriate local, State, or Federal officials on whether or not local areas should be evacuated.		
D-4a(4) Notification of the General Public	Immediate notification of the general public through the public safety and emergency agencies listed above will be made by, or under the direction of, the RCRA Emergency Coordinator following an evaluation to determine if local adjacent areas need to be evacuated. This evaluation will be made in consultation with the DOE who, as the owner of the facility, has management responsibility for the land withdrawal area. DOE policy is to provide accurate and timely information to the public by the most expeditious means possible concerning emergency situations at the WIPP site that may affect off-site personnel, public health and safety, and/or the environment. A DOE (DOE) Management representative is always on-call. This person is available by pager or telephone 24 hours a day. A Hazards Assessment was conducted, which indicated no need for protective actions or emergency action levels, as defined by the Permittees, for the facility. Therefore, no procedures are in place for evacuation of the public. Procedures are in place for notification of the public by radio, television, and newspapers for news items which might include notification of on-site emergency situations. These procedures include a Public Affairs Coordinator in the EOC who writes and transmits press releases to the DOE office, where formal press conferences are conducted.	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	The required notifications were made in accordance with site procedures/work control documents and documented in the 15-day report of implementation required by Section D-8.
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	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,

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	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 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.		D008, D009, D010, D011, D018, D019, D021, D022, D035, D038, D039, D040, F001, F002, and F005.
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	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	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

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	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 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	radiological component of the waste. Therefore, the activities conducted relative to assessing the nature and extent of the emergency pertained to the radiological release.	from radioactivity. These measures are appropriate and sufficient to protect against any hazardous constituents that might be present.
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)	The WIPP Emergency Response procedures include, but are not limited to, the	The required activities	Procedures and/or work control

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All Emergencies	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, 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.	described in this section are applicable to the current implementation of the RCRA Contingency Plan.	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 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

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			protection are inspected in accordance with Permit Attachment E, Table E-1. HEPA filtration is currently being used to limit radiological releases. The most effective methods for mitigation will be addressed during recovery.
D-4d(1) All Emergencies	1. Physical methods of control involve any of several processes to reduce the area of the spill/leak, or other release mechanism (such as fire suppression). A. Absorption is the process in which materials hold liquids through the process of wetting. Absorption is accompanied by an increase in the volume of the sorbate/sorbent system through the process of swelling. Some of the materials utilized in response to Level I incidents or Level II incidents involving liquids will be absorbent sheets of polyolefin-type fibers, spill control bucket materials (specifically for solvents, neutralization, or for acids/caustics), and absorbent socks for general liquids or oils. B. Covering refers to a temporary form of mitigation for radioactive incidents that will be utilized in response to Level II or Level III incidents involving CH TRU mixed waste. These could include absorbent sheets, plastic, or actual ambulance blankets. C. Dikes or Diversions refer to the use of physical barriers to prevent or reduce the quantity of liquid flowing into the environment. Dikes may be soil or other barriers temporarily utilized to hold back the spill or leak. Diversion refers to the methods used to physically change the direction of the flow of the liquid. Absorbent socks or earth may be utilized as dikes or diversions for all levels of incidents. D. Overpacking is accomplished by the use of an oversized container. Overpack containers will be compatible with the hazards of the materials involved. E. Plug and Patch refers to the use of compatible plugs and patches to reduce or temporarily stop the flow of materials from small holes, rips, tears, or gashes in containers. A Series “A” hazardous response kit containing nonsparking equipment to control and plug leaks may be utilized for response to all levels of incidents. F. Transfer refers to the process of moving a liquid, gas, or some forms of solids, either manually or by pump, from a leaking or damaged	Descriptive text.	No actions required.

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	container. Scoops, shovels, jugs, and pails as well as drum transfer pumps for chemical and petroleum transfer are utilized as needed in response to all levels of incidents. G. Vapor Suppression refers to the reduction or elimination of vapors emanating from a spilled or released material through the most efficient method or application of specially designed agents such as an aqueous foam blanket. 2. Chemical Methods of Mitigation A. Neutralization is the process of applying acids or bases to a spill to form a neutral salt. The application of solids for neutralizing can often result in confinement of the spilled material. This would include using the neutralizing adsorbents. B. Solidification is the process whereby a hazardous liquid is added to material such as an absorbent so that a solid material results.		
D-4d(1) All Emergencies	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	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	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. To date, no derived waste has been generated as a result of this event.
D-4d(1) All Emergencies	For RH TRU mixed waste that is not managed in shielded containers, the detection of contamination on or damage to a RH TRU mixed waste canister or a facility canister may occur outside the Hot Cell during cask to cask transfer of the canister or during loading of the Shielded Insert in the Transfer Cell. When such contamination or damage is found, the Permittees have the option to decontaminate or return the canister to the generator/storage site or another site for remediation. In the case of a damaged facility canister, the Shielded Insert may be used as an overpack to facilitate further management. Contamination may also be detected within the Hot Cell during the unloading of the CNS 10-160B shipping cask. In this case, the Permittees may decontaminate the 55-gallon drums or return them to the generator/storage site or another site for remediation. Spills or releases that occur within the RH Complex or the underground as the result of RH TRU mixed waste handling will be mitigated by using appropriate measures which may include the items above.	The required activities described in this section are NOT applicable to the current implementation of the RCRA Contingency Plan because they pertain to RH waste.	No actions required because the February 14, 2014, event involved CH waste.
D-4d(2)	The incident level emergency response identified in Section D-3 includes fire/explosion potential. WIPP fire response includes incipient, exterior structure	The required activities described in this section	No actions required.

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Fire	fires, and internal structure fires. The RCRA Emergency Coordinator can implement the Memoranda of Understanding (MOU) for additional support. The first option in mine fire response will be to apply mechanical methods to stop fires (e.g., cut electrical power). The last option in mine fire response will be to reconfigure ventilation using control doors associated with the underground ventilation system. The following actions are implemented in the event of a fire: 1. All emergency response personnel at an incident will wear appropriate PPE. 2. Only fire extinguishing materials that are compatible with the materials involved in the fire will be used to extinguish fires. Compatibility with materials involved in a fire are determined by pre-fire plans, Emergency Response Guide Book (DOT, 1993), DOT labeling, and site-specific knowledge of the emergency response personnel. Water and dry chemical materials have been determined to be compatible with all components of the TRU mixed waste. Pre-fire plans for the WHB are included in Figures D-10 and D-11. Fires in areas of the WHB Unit should not propagate, due to limited amount of combustibles, and the concrete and steel construction of the structures. Administrative controls, such as landlord inspections and EST/FPT inspections, help to insure good housekeeping is maintained. Combustible material and TRU mixed waste will be isolated, if possible. Firewater drain trenches collect the water and channel it into a sump. In areas not adjacent to the trenches, portable absorbent dikes (pigs) will be used to retain as much as possible, until it can be transferred to containers or sampled and analyzed for hazardous constituents. 3. If the fire spreads or increases in intensity, personnel will be directed to evacuate. 4. The RCRA Emergency Coordinator will remain in contact with responding personnel to advise them of the known hazards. 5. In order to ensure that storm drains and/or sewers do not receive potentially hazardous runoff, dikes will be built around storm drains to control discharge as needed. Collected waste will be sampled and analyzed for hazardous constituents, before being discharged to evaporation ponds. There are two ponds south of the security fence, opposite the WHB Unit, that will collect drainage from the parking area. The rest of the site, inside the security fence, drains to the large pond to the west. Samples will be taken from these ponds, after the emergency has been abated, to determine any cleanup requirements. NMED will approve any procedures associated with the sampling and analysis of the	are NOT applicable to the current implementation of the RCRA Contingency Plan because the radiation event did NOT involve a fire that required a response.	

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	ponds. 6. The RCRA Emergency Coordinator maintains overall control of the emergency and may accept and evaluate the advice of WIPP facility personnel and emergency response organization members, but retains overall responsibility. 7. The RCRA Emergency Coordinator will be in overall control of WIPP facility emergency response efforts until the emergency is terminated. 8. Materials involved in a fire can be identified in the following ways: • According to Section D-4b. • If the contents of the waste container cannot be determined based on its location and the label is destroyed by fire, the material will be treated as an unknown, evaluated for radiological contamination, and analyzed according to methods in the EPA's "Test Methods for Evaluating Solid Waste Physical/Chemical Methods" (SW-846), Third Edition, after the fire has been extinguished. • Airborne radioactivity samples may be obtained during a fire involving radioactive materials, using portable and fixed air samplers. Response personnel will be adequately protected from airborne radioactivity by their PPE required for fire response. 9. Only materials compatible with the waste may be used for fire response. 10. When cleanup has proceeded to the point of finding no radionuclide activity, then the "swipe" can be sent for analysis for hazardous constituents. The use of these confirmation analyses is as follows: • For waste containers, once radiologically clean and free of any visible evidence of hazardous waste spills on the container, it will be placed in the underground without further action. • 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 (for further information see Section D-4d, Emergency Termination Procedures). 11. Fire suppression materials used in response to incidents will be retained on-scene, where an evaluation will be performed to determine appropriate recovery and disposal methods.		
D-4d(3) Explosion	The following actions will be implemented in the event that an explosion that involves or threatens hazardous or TRU mixed waste or hazardous materials has occurred: 1. The area will be evacuated immediately.	The required activities described in this section are NOT applicable to the current	No actions required.

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	2. The CMRO will immediately notify the appropriate emergency response personnel and the RCRA Emergency Coordinator about the explosion. 3. Injured personnel will be treated and transported as necessary. 4. The RCRA Emergency Coordinator will remain in contact with responding personnel to advise them of the known hazards involved and the degree and location of the explosion and associated fires. 5. The RCRA Emergency Coordinator will be in command and may accept and evaluate the advice of WIPP facility personnel and emergency response organization members, but retains the overall responsibility. Selections of methods and tactics of response are the responsibility of the Incident Commander. 6. The RCRA Emergency Coordinator will be in overall control of WIPP facility emergency response efforts until the emergency is terminated. 7. When cleanup has proceeded to the point of finding no radionuclide activity, then samples may be taken for chemical analysis if there is visible evidence to suspect additional hazardous waste residues. Chemical residues on floor surfaces resulting from a hazardous waste explosion will be evaluated, sampled, analyzed (if required), isolated, and returned to appropriate containers, and surfaces will be cleaned using appropriate cleaners. 8. The RCRA Emergency Coordinator may shut down operational units (e.g., process equipment and ventilation equipment) that have been affected directly or indirectly by the explosion. Once the areas have been determined safe for reentry, processes may be reactivated.	implementation of the RCRA Contingency Plan because the radiation event did NOT involve an explosion.	
D-4d(4) Spills	Protection of response personnel at a hazardous material incident is paramount. The primary methods to protect personnel are time, distance, and shielding. If a Level II or III incident exists, the RCRA Emergency Coordinator will implement the following actions: 1. The immediate area will be evacuated. 2. The RCRA Emergency Coordinator will review facility records to determine the identity and chemical nature of released material. 3. Entry team procedures will be utilized, with special attention to the following: • Buddy system • Appropriate PPE • Backup rescue team • Supplemental communication signals (hand signals and hand-light	The required activities described in this section are NOT applicable to the current implementation of the RCRA Contingency Plan because the radiation event did not involve a spill of TRU mixed waste.	No actions required.

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	signals) • Monitoring equipment • Exposure time limitations 4. If possible, the source of the release will be secured. 5. A dike to contain runoff may be built. 6. Emergency responders will ensure that storm drains and/or sewers do not receive potentially hazardous runoff or spilled material. They may build dikes around storm drains to control discharge. 7. Released wastes may be collected and contained by stabilizing or neutralizing the spilled material, as appropriate, pouring an absorbent over the spilled material, and sweeping or shoveling the absorbed material into drums or other appropriate containers. The absorbents have been determined to be compatible with all components of the TRU mixed waste. 8. No TRU mixed waste that may be incompatible with the released material will be managed in the affected area until cleanup procedures are complete. 9. The RCRA Emergency Coordinator will direct spill control, decontamination, and termination procedures described below.		
D-4d(5) Decontamination of Personnel	Decontamination of personnel with radioactive contamination is the responsibility of the Radiological Control (RC) section. If a person is contaminated with radioactivity during a site evacuation to the staging areas, the contaminated area will be covered before the person can be moved (under escort by RC personnel) to the staging area. The RC personnel will ensure the contaminated person remains segregated from other site personnel while under RC supervision. In the event of an emergency that requires immediate evacuation of the area, the contamination can be covered by any method warranted, given the circumstance (e.g., clean clothing wrapped around the area). If the size of the radioactive contamination on the body is small and localized, it can be covered with clothing (e.g., glove, shoe cover, coveralls). If the size of the radioactive contamination on the body is large, it may be covered by dressing the individual in a full set of Anti-Contamination clothing (coveralls, hood, gloves, shoe covers, etc.). If time and location permit and the contamination is on the face, it will be decontaminated immediately using a cloth moistened with tepid water (and a mild detergent, if necessary). If the size of the radioactive contamination on the individual's body is small and localized, it will be decontaminated using the same method as for the face, but after the individual has been transferred to an area	The required activities described in this section are NOT applicable to the current implementation of the RCRA Contingency Plan because decontamination of personnel was NOT required as a result of this event.	No actions required.

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	appropriate for conducting decontamination. If the individual is transferred to the staging area prior to decontamination, he/she will be decontaminated at the staging area using site procedures for personnel decontamination and using decontamination supplies and equipment as appropriate for the extent and magnitude of the contamination.		
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 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.	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 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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D-4d(6) Control of Spills or Leaking or Punctured Containers of CH and RH TRU Mixed Waste	Should a breach of a CH TRU mixed waste container occur at the WIPP that results in removable contamination exceeding the small area "spot" decontamination levels, the affected container(s) (e.g., breached and contaminated) will be placed into an available overpack container (e.g., 85-gal drum, SWB, TDOP), except that TDOPs and SLB2s will be decontaminated, repaired/patched in accordance with 49 CFR §173 and §178 (e.g., 49 CFR §173.28), or returned to the generator. The decontamination of equipment and the overpacking of contaminated/damaged waste containers will be performed in the vicinity of the incident. For example, under normal operations CH TRU mixed waste will be handled only in the areas of the WHB Unit. Therefore, it is within these same areas that decontamination and/or overpacking operations would occur. By eliminating the transport of contaminated equipment to other areas for decontamination or overpacking, the risk of spreading contamination is reduced.	The required activities described in this section are NOT applicable to the current implementation of the RCRA Contingency Plan because these requirements only apply to breached waste containers occurring in the WHB.	No actions required.
D-4d(6) Control of Spills or Leaking or Punctured Containers of CH and RH TRU Mixed Waste	Equipment used during a spill cleanup or CH TRU mixed waste overpacking operation could include: cloths, brushes, scoops, absorbents, squeegees, tape, bags, pails, slings, hand tools, and others as needed for a given incident.	Descriptive text.	No actions required.
D-4d(6) Control of Spills or Leaking or Punctured Containers of CH and RH TRU Mixed Waste	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.	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	Required actions will be integrated with the WIPP Recovery Plan.
D-4d(6) Control of Spills or Leaking or Punctured Containers of CH and RH TRU Mixed Waste	The decontamination methods will initially involve wiping down structures, equipment, and other containers in the area with absorbent cloths moistened with tepid water. Surveys of these structures will take place and the need to continue decontamination activities will be established. If further decontamination is required, nonhazardous decontaminating agents, such as Liquinox©, Simple Green©, Windex©, citric acid, Bartlett Strip Coat©, and high pressure CO_2 will be used to prevent generating CH TRU mixed waste. RWPs and other administrative controls provide protective measures to help ensure that new hazardous constituents will not be added during decontamination activities.	Descriptive text.	No actions required.

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D-4d(6) Control of Spills or Leaking or Punctured Containers of CH and RH TRU Mixed Waste	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.	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.
D-4d(6) Control of Spills or Leaking or Punctured Containers of CH and RH TRU Mixed Waste	<u>RH TRU Mixed Waste</u> For RH TRU mixed waste, the detection of contamination on or damage to a RH TRU mixed waste canister or a facility canister may occur outside the Hot Cell during cask to cask transfer of the canister or during loading of the Shielded Insert in the Transfer Cell. When such contamination or damage is found, the Permittees have the option to decontaminate or return the canister to the generator/storage site or another site for remediation. In the case of a damaged facility canister, the Shielded Insert may be used as an overpack to facilitate further management. Contamination may also be detected within the Hot Cell during the unloading of the CNS 10-160B shipping cask. In this case, the Permittees may decontaminate the 55-gallon drums or return them to the generator/storage site or another site for remediation. Spills or releases that occur within the RH Complex or the underground as the result of RH TRU mixed waste handling will be mitigated by using the following measures, as appropriate: During the re-entry phase, an evaluation of the incident, including the nature of the release, amount, location, and other appropriate factors, will be performed. A RWP will be written and approved prior to personnel entering the Hot Cell with the appropriate PPE to further assess the situation, perform surveys and take samples, and, if possible, mitigate problems that could compound the hazards in the area. Based on the results of the evaluation, a determination will be made by the RCRA Emergency Coordinator, with input from the cognizant managers, radiological control personnel, and ALARA Committee representatives whether to implement the Contingency Plan and to determine the appropriate course of action to recover from the event. An action response plan to decontaminate and recover affected areas and	The required activities described in this section are NOT applicable to the current implementation of the RCRA Contingency Plan because they pertain to RH waste.	No actions required because the February 14, 2014, event involved CH waste.

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	equipment, together with an RWP establishing the radiological controls required for the recovery will be developed and approved. Should a breach of a RH TRU mixed waste container occur in the Hot Cell that results in removable contamination exceeding the small area "spot" decontamination levels, the affected container(s) (e.g., breached and contaminated) will be placed into a canister and processed for disposal. The decontamination of equipment, cleanup of spilled material and the overpacking of contaminated/damaged waste containers will be performed in the vicinity of the incident. For example, under normal operations RH TRU mixed waste in 55-gallon drums will be handled only in the Hot Cell. Therefore, it is within this area that decontamination and/or overpacking operations would occur. By eliminating the transport of contaminated equipment to other areas for decontamination or overpacking, the risk of spreading contamination is reduced. Contaminated materials for the cleanup and overpacking of a breached RH TRU mixed waste container may be managed as CH TRU mixed waste, depending on the surface dose rate. Equipment used during a spill cleanup or RH TRU mixed waste overpacking operation could include: cloths, brushes, scoops, absorbents, squeegees, tape, bags, pails, slings, hand tools, and other equipment as needed for a given incident. The decontamination methods may initially involve wiping down structures, equipment, and other containers in the area with absorbent cloths moistened with tepid water. Surveys of these structures will take place and the need to continue decontamination activities will be established. If further decontamination is required, nonhazardous decontaminating agents, such as Liquinox©, Simple Green©, Windex©, citric acid, Bartlett Strip Coat©, and high pressure CO_2 will be used to prevent generating CH TRU mixed waste. RWPs and other administrative controls provide protective measures to help ensure that new hazardous constituents will not be added during decontamination activities. Certain structures and/or equipment within the Hot Cell 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 of the Hot Cell is deemed by the recovery team to be complete, RC personnel will conduct one final, intensive radcon survey		

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	of the area and components in the area to release it for continued use. The free release criteria for items and equipment that will be released for uncontrolled use are < 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 confirm 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. The recovery phase must be completed before the affected area and/or equipment are returned to service.		
D-4d(7) Natural Emergencies	After a natural emergency (earthquake, flood, lightning strike, etc.) that involves hazardous waste or hazardous materials, the FSM will ensure the following actions are taken: 1. Inspect containers which have not been disposed and containment for signs of leakage or damage. Inspect areas where containers are stored looking for leaking containers and for deterioration of containers and the containment system. 2. Inspect affected equipment or areas associated with hazardous waste management activities for proper operating mode in accordance with site procedures and manually check to ensure automatic and alarmed features on the units are working. 3. Inspect affected equipment or areas within the HWMUs in accordance with site procedures for damage. 4. Inspect electrical boards and overhead electrical lines for damage. 5. Check container areas for signs of leakage or damage to drums and containers. 6. Check affected buildings and fencing directly related to hazardous waste management activities for damage. 7. Conduct a general survey of the site looking for signs of land movement, etc. 8. Take any necessary corrective measures, however temporary, to rectify potential or real problems. 9. Record inspection results.	The required activities described in this section are NOT applicable to the current implementation of the RCRA Contingency Plan because the radiation event did NOT involve a natural emergency.	No actions required.
D-4d(8) Roof Fall	Roof fall is not expected to affect RH TRU mixed waste because it is emplaced in the rib of the disposal room and not subject to impact from a roof fall. The following incident description and mitigation apply to CH TRU mixed waste. The WIPP underground is routinely evaluated for stability and safety of the	The required activities described in this section are NOT applicable to the current	No actions required.

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	underground openings. These evaluations can be as simple as the MSHA required visual checks by personnel working in the area or as extensive as the expert review of the roof support system for Room 1 Panel 1 conducted in 1991. An in-depth evaluation of all of the accessible underground is performed on an annual basis as part of the formal ground control operating plans. Weekly visual and sounding inspections are performed by the Permittees. More frequent inspections and evaluations are performed in areas where roof or ribs are in need of evaluations, based on visual observations, analysis of rock deformation data, excavation effects program data acquired from observation holes, and support system performance. This process applies not only to the waste disposal rooms but to the entire WIPP underground. Prior to waste emplacement, stability of each room will be evaluated. This evaluation will concentrate on the age and current performance of the installed support systems (if any) and the rate of roof beam expansion based on data from installed instrumentation. The roof support system's performance and surety, to provide the support necessary for the required time will be addressed. Criteria used will include design parameters such as the amount of load, the deformation of the installed system, and the number and type of component failures observed, if any. Geotechnical criteria will include parameters such as the type and quantity of fracturing, roof beam expansion rates, and future ground performance based on a predictive model. Should the evaluation results indicate that remedial actions are necessary prior to placement of waste, experiences at the WIPP indicate that rebolting or installing supplemental support can extend the safe life of a room for several years. After waste emplacement commences, geomechanical monitoring will continue with monitors that are tied into a computer network program. The readings obtained will provide information needed for the roof beam stability assessment. Visual observations of the ground and the support systems will also continue in all accessible areas. Based on the experiences from the Site and Preliminary Design Validation test rooms, it has been proven that any developing instability will be detected through monitoring. Multiple measures to deal with the observed conditions can be implemented months before an event to mitigate any risk associated with a roof fall in the storage room or any affected area within the mine. At a minimum, the affected area will be isolated and withdrawn from ventilation flow. Isolation operations will utilize current available methods, materials, and equipment. Ground control conditions which could result in a fall can be divided into two scenarios: The first consists of spalling (falling) of individual small and localized rock falling on waste containers.	implementation of the RCRA Contingency Plan because the radiation event did NOT involve a roof fall or spalling-of-ground scenario.	

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	By definition, they can be considered insignificant as no damage to the drums can occur. The second consists of an entire section of roof falling on multiple stacks of waste containers. Each of these scenarios is discussed below. Spalling-of-Ground Scenario The maximum distance between the room roof and a container of waste is 10 ft. Waste containers are designed to withstand impact loads of at least 1,000 pounds (lbs) dropped from a height of 6 ft. flat or 450 lbs dropped on a circumferential edge from a height of 4 ft. Both of which correspond to an allowable impact stress of 25,450 pounds per square inch (psi). Rocks from spalling are small and would not be of sufficient weight when striking a drum from a 10 ft vertical height to cause an impact stress of more than 25,450 psi. Taking into account the falling distance, average weight, and the typical shape of the salt rock, the conclusion is that puncturing a drum by spalling is non-credible. Fall-of-Ground Scenario Fall-of-ground occurs when a large section of roof beam falls onto the waste containers. As previously discussed, the possibility of this occurring in an active room is remote, due to continuous monitoring and engineered roof support systems. The following actions have been developed and will be taken by the RCRA Emergency Coordinator should a rock fall occur in an active waste emplacement area of the repository: Spalling-of-Ground Actions 1. Determine whether the roof conditions allow for safe entry and if the waste container or containers in question are accessible. The process used to determine if a roof condition of a room will allow for safe entry is the same as the ground control inspection process used for inspection of the ground conditions and roof bolt integrity. The inspection will begin at a safe and sound roof starting point and consist of visual inspections of roof bolts, roof, and rib areas for missing or damaged bolts; deformed roof bolt plates; or roof and rib cracks, fractures, or separations. If during the visual inspection suspicious roof bolts, roof, or ribs are found, then operators will proceed with sounding the area in question with a scaling bar for loose roof bolts, bad roof, or ribs (loose roof bolts will not ring when sounded). Bad roof or ribs will have a drummy, hollow, or un-solid sound when struck with the scaling bar. When this operation is performed, a safe avenue for retreat is always maintained. Also maintained is a position such that an unexpected event will not place personnel in a position where the scaling bar or material being scaled		

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	could fall on personnel. If the inspection reveals ground that cannot be safely scaled manually or with the available mining equipment, the affected area, up to and including the entire room, will be barricaded and removed from ventilation flow. The criteria used to determine whether a waste container is accessible is based on the location of the container, the amount of waste in the room, and the expense of reaching the waste container safely versus the expense of abandonment of the room. For example, if the room is 95% filled and spalling-of-ground punctured a waste container at or near the exit of the room, the decision to isolate the room and move waste emplacement activities to the next room would be prudent. 2. Restrict access in ventilation flow path downstream of the incident. 3. Restrict ventilation to the affected room to ensure that there is no spread of contamination that may have been released. Survey for contamination and establish the boundaries. 4. Inspect accessible and affected containers and containment for signs of leakage or damage. 5. Cover the spill area with material such as plastic or fabric sheets or paint, in a way that would safely isolate the area. 6. Determine if the covered spill area safely allows for continued waste disposal operations or whether further cleanup is required. If further cleanup is required, provide with cleanup methods described below. Note: Cleaning may not be required since this is the permitted disposal area. 7. Inspect any affected equipment (vehicles, handling equipment, and communication and alarm equipment) for proper function. 8. Repackage spilled waste and repackage, plug, or patch breached waste containers into 55 or 85-gallon drums, SWBs, or TDOPs, depending on volume. Temporarily locate overpack waste containers in an adjacent room. Remove only those intact waste containers necessary to clear the area for decontamination. 9. At the underground emplacement room, salt contaminated by a spill of TRU mixed waste will be covered with materials such as salt, plastic or fabric sheets or PVA to isolate it from the workers or removed and packaged as site derived waste in accordance with site procedures for decontaminating surfaces. 10. Manage the radioactive debris as derived waste. 11. Characterize containers of waste based on the waste containers that were damaged.		

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	12. Replace the removed and derived waste containers into the waste stack as appropriate and update the WWIS. 13. Document activities and record results. <u>Fall-of-Ground Actions</u> 1. Restrict access in ventilation flow path downstream of the incident. 2. Restrict the room from ventilation flow by closing bulkhead regulators. 3. Survey for radiological contamination and establish the boundary for a Radiological Buffer Area. 4. Install barricade devices to remove access. 5. At the underground emplacement room, salt contaminated by a spill of TRU mixed waste will be covered with materials such as salt, plastic or fabric sheets, or PVA to isolate it from the worker or removed and packaged as site derived waste using damp rags, hand tools, and HEPA filtered vacuums. The criteria used to determine whether to close the entire panel or just the affected room of waste containers would include the location of the roof fall and the stability of the unaffected roof area in the panel. Techniques to determine the stability would be the same as previously described in this section.		
D-4d(9) Structural Integrity Emergencies	In the event of a WIPP facility emergency involving underground structural integrity, the situation will be handled as a natural emergency. Monitoring and inspection procedures ensure the safety and integrity of the WIPP facility underground.	The required activities described in this section are NOT applicable to the current implementation of the RCRA Contingency Plan because the radiation event did NOT involve underground structural integrity.	No actions required.
D-4d(10) Emergency Termination Procedures	For the transition from emergency phase to cleanup phase, the following items will be complete: • 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 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	Required actions will be integrated with the WIPP Recovery Plan.

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	• 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 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	Plan.	

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	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 • 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,	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)	The required activities described in this section are applicable to the current implementation	At the time of the radiation release, many of these measured were implemented, but they are no longer applicable to this event.

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Explosions, or Releases	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.	of the RCRA Contingency Plan.	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.
D-4f Management and Containment of Released Material and	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	The applicability of the activities described in this section, as they pertain to the current implementation of the RCRA Contingency	Required actions will be integrated with the WIPP Recovery Plan.

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Waste	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 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	Plan, will be addressed in the WIPP Recovery Plan.	

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	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 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		

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	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 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	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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	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-4i Container Spills and Leakage	The waste received at the WIPP facility will meet stringent TSDF-WAC (e.g., no more than one percent liquid), which will minimize the possibility of waste container degradation and liquid spills. Should a spill or release occur from a container, following an initial assessment of the event, the WIPP facility will immediately take the following actions, in compliance with 20.4.1.500 NMAC (incorporating 40 CFR §264.52(a) and §264.171): • Assemble the required response equipment, such as protective clothing and gear, heavy equipment, empty drums, overpack drums, and hand tools • Transfer the released material to a container that is in good condition or overpack the leaking container into another container that is in good condition • Once the release has been contained, determine the areal extent of migration of the release and proceed with appropriate cleanup action, such as chemical neutralization, vacuuming, or excavation	The required activities described in this section are NOT applicable to the current implementation of the RCRA Contingency Plan.	No actions required.
D-4j Tank Spills and Leakage	The TRU mixed waste handling areas at the WIPP facility do not include tank storage or treatment of hazardous waste, as defined in 20.4.1.101 NMAC (incorporating 40 CFR §260.10), and as regulated under 20.4.1.500 NMAC (incorporating 40 CFR §264) Subpart J. At the WIPP facility, tanks are used to store water and petroleum fuels only. The petroleum tanks store diesel and unleaded gasoline.	The required activities described in this section are NOT applicable to the current implementation of the RCRA Contingency Plan because tanks are NOT used to storage hazardous waste at the WIPP facility.	No actions required.

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D-4k Surface Impoundment Spills and Leakage	The WIPP facility does not manage hazardous or TRU mixed waste using a surface impoundment, as defined in 20.4.1.101 NMAC (incorporating 40 CFR §260.10), and as regulated under 20.4.1.500 NMAC (incorporating 40 CFR, §264) Subpart K. Surface impoundment regulations are not applicable to the WIPP facility.	The required activities described in this section are NOT applicable to the current implementation of the RCRA Contingency Plan because the WIPP facility does NOT use surface impoundments to manage hazardous waste.	No actions required.
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-6 Coordination Agreements	The Permittees have established MOUs with off-site emergency response agencies for firefighting, medical assistance, hazardous materials response, and law enforcement. In the event that on-site response resources are unable to provide all the needed response actions during either a medical, fire, hazardous materials, or security emergency, the RCRA Emergency Coordinator will notify appropriate off-site response agencies and request assistance. Once on site, off-site emergency response agency personnel will be under the direction of the RCRA Emergency Coordinator. The MOUs with off-site cooperating agencies are available from the Permittees. A listing and description of the MOUs with state and local agencies and mining operations in the vicinity of the WIPP facility, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.37 and §264.52(c)), are: • An agreement among the Permittees, Intrepid Potash NM LLC, and Mosaic Potash Carlsbad Inc., provides for the mutual aid and assistance, in the form of MRTs, in the event of a mine disaster or other circumstance at either of the two facilities. This provision ensures that the WIPP MOC will have two MRTs available at all times when miners are underground. • A memorandum of agreement between the City of Carlsbad, New Mexico, and the WIPP MOC for ambulance service assistance provides that, upon	Descriptive text.	No actions required.

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	notification by the WIPP MOC, the Carlsbad Fire Department/Ambulance Service will be dispatched from Carlsbad toward the WIPP site by a designated route and will accept the transfer of patient(s) being transported by the WIPP facility ambulance at the point both ambulances meet. If the patient(s) is not transferrable, the Carlsbad Fire Department/Ambulance Service will provide equipment and personnel to the WIPP facility ambulance, as necessary. • A MOU between the DOE and the Carlsbad Medical Center provides for the treatment of radiologically contaminated personnel who have incurred injuries beyond the treatment capabilities at the WIPP facility. The DOE will provide transport of the patient(s) to the Carlsbad Medical Center for decontamination and medical treatment. • A MOU between the DOE and the Lea Regional Medical Center provides for the treatment of radiologically contaminated personnel who have incurred injuries beyond the treatment capabilities at the WIPP facility. The DOE will provide transport of the patient(s) to the Lea Regional Medical Center for decontamination and medical treatment. • A MOU between the DOE and the U.S. Department of Interior (DOI), represented by the Bureau of Land Management (BLM), Roswell District, provides for a fire-management program that will ensure a timely, well-coordinated, and cost-effective response to suppress wild fire within the withdrawal area using the WIPP incident commander for fire-management activities. The DOI will provide firefighting support if requested. In addition, the MOU provides for responsibilities concerning cultural resources, grazing, wildlife, mining, gas and oil production, realty/lands/rights-of-way, and reclamation. • A mutual-aid firefighting agreement between the Eddy County Commission and the DOE provides for the assistance of the Otis and Joel Fire Departments (a volunteer fire district created under the Eddy County Commission and the New Mexico State Fire Marshall's Office), including equipment and personnel, at any location within the WIPP Fire Protection Area upon request by an authorized representative of the WIPP Project. These responsibilities are reciprocal. • A mutual-aid agreement between the City of Hobbs and the DOE provides for mutual ambulance, medical, fire, rescue, and hazardous material response services; provides for joint annual exercises; provides for use of WIPP facility radio frequencies by the City of Hobbs during emergencies; and provides for mutual security and law enforcement services, within the appropriate jurisdiction limits of each party.		

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	• A mutual-aid agreement between the City of Carlsbad and the DOE provides for mutual ambulance, medical, fire, rescue, and hazardous material response services; provides for joint annual exercises; provides for use of WIPP facility radio frequencies by the City of Carlsbad during emergencies; and provides for mutual security and law enforcement services, within the appropriate jurisdiction limits of each party. • A MOU between the DOE and the New Mexico Department of Public Safety (DPS) concerning Mutual Assistance and Emergency Management applies to any actual or potential emergency or incident that: 1) involves a significant threat to employees of the Permittees or general public; 2) involves property under the control or jurisdiction of either the DOE or the State; 3) involves a threat to the environment which is reportable to an off-site agency; 4) requires the combined resources of the DOE and the state; 5) requires a resource that the DOE has which the State does not have, or a resource the State has which DOE does not have; or 6) involves any other incident for which a joint determination has been made by the DOE and the State that the provisions of this MOU will apply. The MOU provides that the DPS shall permit qualified and security cleared DOE Emergency Management members into the State EOC for the purpose of: a) coordinating communications functions; b) evaluating and maintaining communications capabilities; c) participating in exercises; d) link the State's High Frequency radio communications network with the DOE; and e) assisting the State during radioactive materials accidents that require joint operations or the use of the DOE Radiological Assistance Program team. The DOE shall permit qualified and security cleared members the State Emergency Management community into the DOE's EOCs for the purposes of coordinating communications and activities. Additional duties for each participant are specified for assistance in incidents or emergencies.		
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-7a Surface Evacuation On-site and Off-site Staging Areas	Figure D-8 shows the surface staging areas. Personnel report to their Office Wardens at designated staging areas where accountability is conducted. If site evacuation is necessary, the RCRA Emergency Coordinator will decide which staging areas are to be used and will advise Office Wardens of the selections. The RCRA Emergency Coordinator will communicate the locations to Office Wardens via office warden pager, radio, plectron, WIPP Security, or telephone, as appropriate. Office Wardens will direct personnel to the	Descriptive text.	Personnel were accounted for and staging areas were identified and available at the time of the radiological event. However, no site evacuations were necessary at

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	selected staging area outside the security fence. Personnel who are working in a contaminated area when site evacuation is announced, will assemble at specific staging areas to minimize contact with other personnel during the evacuation (Figure D-8). Office Wardens conduct accountability of personnel assigned to their specific areas. For complete surface accountability, the Office Wardens report to their ACOW, who reports to the COW. When the COW has reports from all ACOWs, surface accountability is reported to the CMRO, who then notifies the RCRA Emergency Coordinator of the accountability. The COW and all ACOWs communicate between themselves and the CMRO using devices (e.g., telephones, radios, pagers, the public address system, email, Internet). The Office Wardens, Assistant Office Wardens, ACOWs, and COW are notified by a public address announcement (or other devices) in accordance with emergency response procedures for evacuation or sheltering in place. At the staging areas Office Wardens report directly to their ACOW. There are three off-site staging areas identified on Figure D-8. The RCRA Emergency Coordinator determines which staging area will be used. Security officers remain at the primary staging area gate 24 hours a day, and the vehicle trap is opened for personnel during emergency evacuations. The north gate has a single person gate and large gate which can be opened, similar to the main gates for the primary staging area. The east gate is a turnstile gate. Upon notification by the RCRA Emergency Coordinator, Security will respond, open gates, and facilitate egress for evacuation. The on-site staging areas are identified in Figure D-8. These are used for building or area evacuations as determined by the RCRA Emergency Coordinator.		the time of the April 11, 2014, implementation of the RCRA Contingency Plan.
D-7b Underground Assembly Areas and Egress Hoist Stations	In the event of an underground or surface event, the RCRA Emergency Coordinator can call for underground personnel to report to assembly areas (Figure D-9). Underground personnel are also trained to immediately report to assembly areas under specific circumstances (i.e. loss of underground power or ventilation). If accountability is required, the underground will be evacuated. The Underground Controller is responsible for underground accountability by comparing the brass numbers with the brass tags signed out in the lamproom. Each assembly area contains a Mine Page Phone, miner's aid station, and evacuation maps. In accordance with 30 CFR §57.11, the mine maintains two escapeways. These escapeways are designated as Egress Hoist Stations. When an underground evacuation is called for, all underground personnel report to the Egress Hoist Stations. Decontamination of underground personnel will be conducted the same way as described for surface decontamination. Contaminated personnel are trained to remain segregated from other personnel until RC personnel can respond to the incident at the underground location.	The required activities described in this section are not applicable to the current implementation of the RCRA Contingency Plan as no personnel were underground at the time of the event and implementation of the RCRA Contingency Plan was a pre-requisite to entry into the underground HWDUs.	No actions required.
D-7c Plan for Surface Evacuation	Surface evacuation notification is initiated by the RCRA Emergency Coordinator directing the CMRO to sound the surface evacuation alarm. The Office Wardens assist personnel in evacuation from their areas. Evacuation routes and instructions are posted throughout the site. If the FSM/CMRO notifies the ERT members by a communication device (e.g., pager) to respond to an identified area, these members will not depart the site during an evacuation,	The required activities described in this section are not applicable to the current implementation of the RCRA	No actions required.

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	but will report to the FSM for instructions and accountability. The EST/FPT notifies the COW of response members present. These personnel will not evacuate until released by the RCRA Emergency Coordinator.	Contingency Plan as site evacuation was not required at the time of the radiological event or at the time of the implementation of the RCRA Contingency Plan.	
D-7d Plan for Underground Evacuation	Notification for underground evacuation will be made using the underground evacuation alarm and strobe light signals. Personnel will evacuate to the nearest egress hoist station. Primary underground evacuation routes (identified by green reflectors on the rib) will be used, if possible. Secondary underground evacuation routes (identified by red reflectors on the rib) will be used if necessary (Figure D-5). Brass tags will be collected from personnel at the hoist collar on the surface, and taken to the Underground Controller, who functions as an Office Warden. When all brass tags are accounted for, underground accountability is reported to the RCRA Emergency Coordinator. Upon reaching the surface, personnel will report to their on-site staging area to receive further instructions. Members of the FLIRT and the MRT who may be underground, will evacuate the underground when an underground evacuation is called for. A reentry by the MRT will be performed according to 30 CFR 49 and MSHA regulations for reentry into a mine. The two MRTs are trained in compliance with 30 CFR 49 in mine mapping, mine gases, ventilation, exploration, mine fires, rescue, and recovery.	The required activities described in this section are not applicable to the current implementation of the RCRA Contingency Plan as site evacuation was not required at the time of the radiological event or at the time of the implementation of the RCRA Contingency Plan.	No actions required.
D-7e Further Site Evacuation	In the event of an evacuation involving the need to transport employees, the following transportation will be available: • Buses/vans—WIPP facility buses/vans will be available for evacuation of personnel. The buses/vans are stationed in the employee parking lot. • Privately Owned Vehicles—Because many employees drive to work in their own vehicles, these vehicles may be utilized in an emergency. Personnel may be directed as to routes to be taken when leaving the facility. These vehicles may be used to transport personnel who have been released from the site by the RCRA Emergency Coordinator.	The required activities described in this section are not applicable to the current implementation of the RCRA Contingency Plan as site evacuation was not required at the time of the radiological event or at the time of the implementation of the RCRA Contingency Plan.	No actions required.
D-8 Required Reports	The RCRA Emergency Coordinator, on behalf of the Permittees, will note in the operating record the time, date, and details of any incident that requires implementing this Contingency Plan. This notation will be in the facility log	The required activities described in this section are applicable to the	This report was prepared and submitted to the NMED on April 28, 2014.

RCRA Contingency Plan Section	RCRA Contingency Plan Text	Applicability to the February 14, 2014, Event	Current Status/Schedule/Deviations
	maintained by the CMRO. In compliance with 20.4.1.500 NMAC (incorporating 40 CFR §264.56(j)), within 15 days after the incident, the Permittees will ensure that a written report on the incident will be submitted to the EPA Region VI Administrator and to the Secretary of the NMED. The report will include: • The name, address, and telephone number of the Owner/Operator • The name, address, and telephone number of the facility • The date, time, and type of incident (e.g., fire, explosion or release) • The name and quantity of material(s) involved • The extent of injuries, if any • An assessment of actual or potential hazards to human health or the environment, where this is applicable • The estimated quantity and disposition of recovered material that resulted from the incident In addition to the above report, the Permittees will ensure that the ES&H Manager, or designee, submits reports to the appropriate agencies as listed in Tables D-8 and D-9.	current implementation of the RCRA Contingency Plan.	
D-8 Required Reports	In accordance with 20.4.1.500 NMAC (incorporating 40 CFR §264.56(i)), the 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.	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	Required actions will be integrated with the WIPP Recovery Plan.
D-8 Required Reports	The WIPP requires the EST/FPT to initiate the “WIPP Hazardous Materials Incident Report” if the Contingency Plan is implemented. A form is attached as Figure D-12. The form is initiated by the EST/FPT. The RCRA Emergency Coordinator, CMRO, and Environmental Compliance representatives complete their respective sections.	The required activities described in this section are applicable to the current implementation of the RCRA Contingency Plan.	The WIPP Hazardous Materials Incident Report was initiated by the RCRA Emergency Coordinator on April 11, 2014.
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	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.

RCRA Contingency Plan Section	RCRA Contingency Plan Text	Applicability to the February 14, 2014, Event	Current Status/Schedule/Deviations
	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.		

Attachment 8
Corrective Actions Required for Recovery

Required Corrective Actions U.S. Department of Energy Accident Investigation Board, "Accident Investigation Report: Underground Salt Haul Truck Fire at the Waste Isolation Pilot Plant, February 5, 2014," March 2014
Judgement of Need (JON) 1: NWP needs to evaluate and correct deficiencies regarding the controls for communicating emergencies to the underground, including the configuration and adequacy of equipment (alarms, strobes, and public address).
JON 2: NWP needs to evaluate the procedures and capabilities of the FSM and CMRO in managing a broad range of emergency response events through a comprehensive drill and requalification program.
JON 3: NWP needs to evaluate and apply a process/systems based approach for decision making relative to credible emergencies in the U/G, including formalizing response actions, e.g., decision to change to filtration mode during an ongoing evacuation.
JON 4: NWP and CBFO need to evaluate their corrective action plans for findings and opportunities for improvement identified in previous external reviews, and take action to bring their emergency management program into compliance with requirements.
JON 5: NWP and CBFO need to correct their activation, notification, classification, and categorization protocols to be in full compliance with DOE O 151.1C and then provide training for all applicable personnel.
JON 6: NWP and CBFO need to improve the content of site-specific EALs to expand on the information provided in the standard EALs contained in DOE O 151.1C.
JON 7: NWP and CBFO need to develop and implement an Incident Command System (ICS) for the EOC/CMR that is compliant with DOE O 151.1C and is capable of assuming command and control for all anticipated emergencies.
JON 8: NWP needs to review procedures and ensure consistent actions are taken in response to a fire in the U/G.
JON 9: NWP, CBFO and DOE HQ need to clearly define expectations for responding to fires in the U/G, including incipient and beyond incipient stage fires.
JON 10: NWP and CBFO need to develop and implement a training program that includes hands-on training in the use of personal safety equipment, e.g., self-rescuers, SCSRs, portable fire extinguishers, etc.
JON 11: NWP and CBFO need to improve and implement an integrated drill and exercise program that includes all elements of the ICS, including the MRT, First Line Initial Response Team (FLIRT) and mutual aid; unannounced drills and exercises; donning of self-rescuers/SCSRs; and full evacuation of the U/G.

Required Corrective Actions U.S. Department of Energy Accident Investigation Board, "Accident Investigation Report: Underground Salt Haul Truck Fire at the Waste Isolation Pilot Plant, February 5, 2014," March 2014
JON 12: NWP needs to evaluate and improve their criteria for granting unescorted access to the U/G such that personnel with unescorted access to the underground are proficient in responding to abnormal events.
JON 13: NWP management needs to reevaluate and modify the approach to conducting preventative and corrective maintenance on all U/G vehicles such that combustible fluids are effectively managed to prevent the recurrence of fires.
JON 14: NWP and CBFO need to develop and implement a rigorous process that effectively evaluates: • changes to facilities, equipment, and operations for their impact on safety, e.g., plant operations review process; • impairment and corresponding compensatory measures on safety-related equipment; and • the impact of different approaches in maintaining waste- handling and non-waste-handling equipment.
JON 15: NWP needs to determine the extent of this condition and develop a comprehensive corrective action plan to address identified deficiencies.
JON 16: NWP needs to develop and implement a process that ensures comprehensive and timely impact evaluation and correction of impaired or out-of-service equipment.
JON 17: CBFO needs to ensure that its contractor oversight structure includes elements for comprehensive and timely evaluation and correction of impaired or out-of-service equipment.
JON 18: NWP needs to develop and reinforce clear expectations regarding the performance of rigorous equipment inspections in accordance with manufacturer recommendations, established technical requirements; corrective action; and trending of deficiencies.
JON 19: NWP needs to ensure that all requirements of DOE O 420.1C and MSHA are addressed in the BNA with the results completely incorporated into implementing procedures and the source requirements referenced, and that training consistent with those procedures is performed.
JON 20: NWP and CBFO need to perform an integrated analysis of credible U/G fire scenarios and develop corresponding response actions that comply with DOE and MSHA requirements. The analysis needs to include formal disposition regarding the installation of an automatic fire suppression system in the mine.
JON 21: NWP and CBFO need to review the combustible control program and complete corrective actions that demonstrate compliance with program requirements. These issues remain unresolved from prior internal and external

Required Corrective Actions U.S. Department of Energy Accident Investigation Board, "Accident Investigation Report: Underground Salt Haul Truck Fire at the Waste Isolation Pilot Plant, February 5, 2014," March 2014
reviews.
JON 22: NWP and CBFO need to evaluate and address deficiencies in housekeeping to ensure unobstructed egress and clear visibility of emergency egress strobes, reflectors, SCSR lights, etc.
JON 23: NWP needs to develop and implement a fully integrated contractor assurance system that provides DOE and NWP confidence that work is performed compliantly, risks are identified, and control systems are effective and efficient.
JON 24: CBFO needs to establish and implement an effective line management oversight program and processes that meet the requirements of DOE O 226.1B and hold personnel accountable for implementing those programs and processes.
JON 25: CBFO needs to accelerate the implementation of a mechanism for all levels of CBFO staff to document, communicate, track, and close issues both internally and with NWP.
JON 26: The CBFO Site Manager needs to institutionalize and communicate expectations for the identification, documentation, reporting, and correction of issues.
JON 27: DOE HQ needs to ensure that repeatedly identified issues related to safety management programs (SMPs) are confirmed closed and validated by the local DOE office. This process should be considered for application across the DOE complex and include tracking, closure, actions to measure the effectiveness of closure (line management accountability), and trending to identify precursors and lessons learned.
JON 28: DOE HQ should enhance its required oversight to ensure site implementation of the emergency management policy and requirements are consistent and effective. Emphasis should be placed on ensuring ICSs are functioning properly and integrated exercises are conducted where personnel are evacuated.
JON 29: DOE HQ needs to develop and implement a process for ensuring that technical expertise is available to provide support in the unique area of ground control, underground construction, and mine safety and equipment.
JON 30: DOE HQ needs to assist CBFO with leveraging expertise from MSHA, in accordance with the DOE/MSHA MOU, in areas of ground control, underground construction, and mine safety where DOE does not have the expertise.
JON 31: DOE HQ needs to re-evaluate resources (i.e. funding, staffing, infrastructure, etc.) applied to the WIPP project to ensure safe operations of a Hazard Category 2 Facility.

Required Corrective Actions U.S. Department of Energy Accident Investigation Board, “Accident Investigation Report: Underground Salt Haul Truck Fire at the Waste Isolation Pilot Plant, February 5, 2014,” March 2014
JON 32: EMCBC and CBFO need to develop and implement clear expectations and a schedule for EMCBC to provide support in the areas of regulatory compliance, safety management systems, preparation of program procedures and plans, quality assurance, lessons learned, contractor assurance, technical support, DOE oversight assistance, etc.
JON 33: NWP and CBFO need to evaluate and correct weaknesses in the CONOPS program and its implementation, particularly with regard to flow-down of requirements from upper-tier documents, procedure content and compliance, and expert-based decision making.
JON 34: NWP and CBFO need to identify and control the risk imposed by non-waste-handling equipment, e.g., combustible buildup, manual vs. automatic fire suppression system, fire-resistant hydraulic oil, etc., or treat waste-handling equipment and non-waste-handling equipment the same.
JON 35: NWP and CBFO management need to examine and correct the culture that exists regarding the maintenance and operation of non-waste-handling equipment.

Required Corrective Actions U.S. Department of Energy Accident Investigation Board, "Accident Investigation Report: Phase I, Radiological Release Event at the Waste Isolation Pilot Plant on February 14, 2014," April 2014
Judgement of Need (JON) 1: Nuclear Waste Partnership LLC (NWP) and the Carlsbad Field Office (CBFO) need to implement a detailed WIPP Recovery Plan to systematically reenter the underground, collect data and information, and make an absolute determination as to the mechanism of the transuranic waste release.
JON 2: During Phase 2, the DOE Accident Investigation Board needs to evaluate the data and information collected and provided by NWP and CBFO to determine the mechanism of release and determine the related conditions and causal factors, reach conclusions, and identify additional judgments of need.
JON 3: NWP needs to revise the hazard and accident analyses to comply with DOE-Standard-3009, *Preparation Guidance for U.S. Department of Energy Nonreactor Nuclear Facility Safety Analysis* and DOE-STD-5506, *Preparation of Safety Basis Documents for Transuranic (TRU) Waste Facilities*, regarding not crediting administrative controls in the unmitigated analysis. In particular, some initial assumptions/initial conditions, e.g., compliance with 30 CFR 57, *Safety and Health Standards Underground Metal and Nonmetal Mines* ground control program requirements, should be preventive or mitigative controls derived by the mitigated analysis and should be evaluated for the need for protection with Technical Safety Requirement controls.
JON 4: NWP needs to commission an independent assessment of the Documented Safety Analysis/Technical Safety Requirement Revision 4 through corporate assistance or other recognized external resources, and corrective actions implemented that establish appropriate hazard controls and functional classifications.
JON 5: NWP needs to re-evaluate the importance of the suite of available preventive and mitigative controls, e.g., continuous air monitors and underground ventilation system, in the supporting hazards analysis report and the Documented Safety Analysis, Section 3.3 hazard evaluation, and whether they should be considered as major contributors to defense in depth. This may require upgrading of some Structures, Systems, and Components functional classifications.
JON 6: NWP needs to re-evaluate the classification of continuous air monitors and the underground ventilation system consistent with the outcome of the revised hazard analysis and develop Technical Safety Requirement controls consistent with that classification.

Required Corrective Actions U.S. Department of Energy Accident Investigation Board, "Accident Investigation Report: Phase I, Radiological Release Event at the Waste Isolation Pilot Plant on February 14, 2014," April 2014
JON 7: NWP needs to revise the Technical Safety Requirements to align with changes to the Documented Safety Analysis, e.g., continuous air monitor and underground ventilation system, correct current errors in the Technical Safety Requirements, and ensure that implementing procedures clearly support consistent interpretations.
JON 8: NWP needs to commission an independent assessment of the Unreviewed Safety Question process through corporate assistance or other recognized external resources, and implement corrective actions that ensure effectiveness.
JON 9: NWP needs to strengthen the Unreviewed Safety Question Determination procedure to clarify Potential Inadequacy in the Safety Analysis guidance, including the appropriate timeliness for entrance into the process and decision making.
JON 10: CBFO needs to revise Management Procedure 4.11, *Safety Basis Review Procedure*, to require adequate documentation of the technical basis supporting approval of changes to the WIPP Document Safety Analysis or Technical Safety Requirements, consistent with DOE Standard 1104, e.g., regulatory compliance, justification for initial assumptions/initial conditions, reduced conservatisms of the hazards and accident analysis.
JON 11: CBFO and DOE HQ need to commission an independent assessment of the CBFO safety basis review and approval process and implement corrective actions that ensure effective implementation.
JON 12: CBFO needs to perform a critical federal staffing analysis focused on Nuclear Safety e.g., Nuclear Safety Specialist, nuclear safety qualified Senior Technical Advisor and supporting CBFO Subject Matter Experts and determine whether existing resources are adequate.
JON 13: CBFO and DOE HQ need to arrange for temporary DOE senior nuclear safety resources to mentor existing CBFO nuclear safety and supporting resources, and assist as necessary.
JON 14: NWP needs to immediately develop and implement interim compensatory measures to ensure prompt identification, categorization, classification, and response to operational emergencies, e.g., corporate reach-back, training, Senior Management Watch in the Central Monitoring Room, etc.
JON 15: CBFO needs to take prompt action to fully integrate trained Federal management resources into the emergency response organization and take action to bring their emergency management program into compliance with DOE Order 151.1C, *Comprehensive Emergency Management System*.
JON 16: NWP needs to correct their activation, notification, classification, and categorization protocols to be in full compliance with DOE Order 151.1C, *Comprehensive Emergency Management System*, Resource Conservation and

Required Corrective Actions U.S. Department of Energy Accident Investigation Board, "Accident Investigation Report: Phase I, Radiological Release Event at the Waste Isolation Pilot Plant on February 14, 2014," April 2014
Recovery Act Contingency Plan and then provide training and drills for all applicable personnel.
JON 17: NWP needs to revise Emergency Response Organization training to include more supervised hands-on training and drills to enhance the effectiveness of the Emergency Response Organization's response.
JON 18: NWP needs to fully integrate the Resource Conservation and Recovery Act Contingency Plan activation criteria within the site Emergency Action Levels and to train the applicable personnel to ensure implementation of the Resource Conservation and Recovery Act Contingency Plan.
JON 19: NWP needs to take prompt action to correct longstanding deficiencies from previous reviews.
JON 20: CBFO needs to ensure that NWP completes prompt action to correct longstanding deficiencies from previous reviews.
JON 21: NWP needs to improve the content of site-specific Emergency Action Levels to expand on the information provided in the standard Emergency Action Levels contained in DOE Order 151.1C, *Comprehensive Emergency Management System*.
JON 22: NWP needs to develop and implement an Incident Command System for the Emergency Operations Center/Central Monitoring Room that is compliant with DOE O 151.1C and is capable of assuming command and control for all anticipated emergencies.
JON 23: DOE Headquarters (HQ) needs to conduct an effectiveness review of the NWP and CBFO emergency management program implementation within six months of completion of the corrective actions for the Emergency Management Judgments of Need.
JON 24: NWP and CBFO need to develop and implement an effective integrated safety management system that embraces and implements the principles of DOE G 450.4- 1C, *Integrated Safety Management Guide*, including but not limited to: • Demonstrated leadership in risk-informed, conservative decision making; • Improved learning through error reporting and effective resolution of problems; • Line management encouraging a questioning attitude without fear of reprisal and following through to resolve issues identified by the workforce; and • Reinforcing the mechanisms, e.g., WIPP Forms, "Notes to Joe," employee concern program, differing professional opinions, and protocols for communicating issues to NWP and CBFO leadership.

Required Corrective Actions U.S. Department of Energy Accident Investigation Board, "Accident Investigation Report: Phase I, Radiological Release Event at the Waste Isolation Pilot Plant on February 14, 2014," April 2014
JON 25: DOE HQ needs to engage external safety culture expertise in providing training and mentoring to NWP and CBFO management on the principles of a strong nuclear safety culture and implement any recommendations from these experts.
JON 26: DOE HQ needs to clearly specify the use of performance reporting results, e.g., Occurrence Reporting and Processing System and non-conformance reports in Past Performance Evaluations, to encourage conservative reporting and communication of Lessons Learned.
JON 27: NWP needs to strengthen execution of the Conduct of Operations program to be compliant with DOE O 422.1, *Conduct of Operations*. Specific areas of focus must include (but not limited to): • Establishing and reinforcing expectations conveyed in WP 04-CO.01, *Conduct of Operations* series procedures. • Initiate a mentoring program, e.g., senior supervisor watch that provides real time feedback to first and second line supervisors as to their responsibilities regarding compliant execution of operations activities. • Strengthen the structure, content and flow of abnormal response procedures to ensure immediate actions do not require judgment calls prior to execution. • Consider the addition of real time surveillance capability, e.g., video of the active waste panels/rooms. • Establish and execute an operational drill program that evaluates operator response to upset conditions. • Establish a process that heightens awareness and requires deliberate action to reduce the quantity and length of time key pieces of equipment are out of service.
JON 28: CBFO needs to take an active role towards improving NWP conduct of operations through implementation of a structured DOE O 226.1B, *Implementation of Department of Energy Oversight Policy*, oversight process that includes mechanisms for identifying, reporting, and transmitting issues that tracks corrective actions to effective closure. Specific areas of focus must include, but are not limited to: • Develop and conduct routine oversight of contractor implementation of the WP 04-CO.01, *Conduct of Operations* series procedures. Oversight needs to include detailed oversight plans that contain specific criteria and lines of inquiry to effectively assess compliance with DOE O 422.1. • Oversight of the NWP mentoring program e.g., senior supervisor watch that provides real time feedback to first and second line supervisors as to their responsibilities regarding compliant execution of operations activities in order to provide feedback on effectiveness.

Required Corrective Actions U.S. Department of Energy Accident Investigation Board, "Accident Investigation Report: Phase I, Radiological Release Event at the Waste Isolation Pilot Plant on February 14, 2014," April 2014
• Oversight of procedure development in order to strengthen the structure, content and flow of abnormal response procedures to ensure immediate actions do not require judgment calls prior to execution. • Overseeing execution of the NWP operational drill program that evaluates operator response to upset conditions. • Strengthen oversight of NWP processes that monitor equipment status and initiate action to correct deficiencies in order to ensure a reduction in the quantity and length of time key pieces of equipment are out of service.
JON 29: NWP needs to take action to ensure that the maintenance process effectively considers and prioritizes repairs to achieve and maintain a high state of operational readiness.
JON 30: NWP needs to improve the execution of engineering processes that ensure system configuration management is maintained and that the rigor in processing proposed changes to systems is at a level that ensures system design functionality is maintained. Specific examples include: • Conversion of the 860 fan vortex damper actuator from automatic to manual operation; • Functionality of the ventilation system in filtration including evaluation and testing of leakage via the bypass dampers; and • The impact of salt buildup on bypass damper effectiveness.
JON 31: CBFO needs to take a more proactive role in the configuration management and maintenance programs to ensure that the facility can meet its operational and life time expectancy.
JON 32: DOE HQ Office of Environmental Management and CBFO need to develop an infrastructure improvement plan within six months to identify and prioritize program-wide critical infrastructure upgrades for key systems to ensure continuation of EM's programmatic mission execution at WIPP. Additionally, DOE HQ Office of Environmental Management needs to coordinate an extent of condition review at other EM sites and take action based on the outcome of that review.
JON 33: NWP needs to evaluate the current state of the radiological control program including the current radiological conditions and implement compensatory measures to support recovery and current activities.
JON 34: NWP needs to perform an extent of condition review of the training program incorporating the results of this event and implement actions to improve radiological control management, Radiological Control Technician, and rad worker proficiency in dealing with contamination, and airborne radioactive material.

Required Corrective Actions U.S. Department of Energy Accident Investigation Board, "Accident Investigation Report: Phase I, Radiological Release Event at the Waste Isolation Pilot Plant on February 14, 2014," April 2014
JON 35: NWP needs to perform an extent of condition review for identified weaknesses in the radiological control program and implement corrective actions to fully implement 10 CFR 835.
JON 36: CBFO needs to determine the effectiveness of the radiation protection program within three months of completion of NWP's corrective actions.
JON 37: NWP needs to develop a technical basis to implement continuous and reliable/redundant real-time air monitoring with appropriate automatic shift to filtration to protect the workers, the public and the environment. This needs to take into consideration the different ventilation modes, protection of workers in the underground, and release of contaminants to the environment. The technical basis must also consider the hazardous constituents in the transuranic mixed waste, e.g., reliability of a single CAM to initiate an automatic shift to filtration, acceptability of leakage past the bypass dampers and automatic shift to filtration that now requires manual operation of 860 fan vortex dampers.
JON 38: NWP needs to develop and implement a fully integrated contractor assurance system that provides DOE and NWP confidence that work is performed compliantly, risks are identified, and control systems are effective and efficient.
JON 39: NWP needs to establish and implement line management oversight programs and processes that: • Meet the requirements of DOE O 226.1B, *Implementation of Department of Energy Oversight Policy*, and hold personnel accountable for implementing those programs and processes. • Implement effective contractor assurance processes to emphasize conduct of operations, maintenance, radiological protection, nuclear safety, emergency management, and safety culture. • Implement a Contractor Assurance System to ensure that actions from prior assessments are implemented to prevent or minimize recurrence of identified deficiencies. • Include self-assessments by knowledgeable, qualified subject matter experts within the various safety management programs.
JON 40: CBFO needs to establish and implement line management oversight programs and processes such that CBFO: • Verifies that NWP has developed and implemented a DOE Order 226.1B compliant Contractor Assurance System. • Meets the requirements of DOE Order 226.1B and hold personnel accountable for implementing those programs and processes. • Implements effective oversight processes to ensure emphasis on conduct of operations, maintenance, radiological protection, nuclear safety, emergency management, and safety culture.

Required Corrective Actions U.S. Department of Energy Accident Investigation Board, “Accident Investigation Report: Phase I, Radiological Release Event at the Waste Isolation Pilot Plant on February 14, 2014,” April 2014
JON 41: CBFO needs to develop and implement an effective issues management process to document, disposition (including extent of condition), close, track/trend issues, and ensure effectiveness of corrective actions. The process shall also ensure that actions from prior assessments are implemented to prevent or minimize recurrence of identified deficiencies.
JON 42: The CBFO Site Manager needs to institutionalize and communicate expectations for a strong safety culture and the identification, documentation, reporting, and correction of issues without fear of reprisal.
JON 43: CBFO needs to evaluate the current organizational structure, identify specific staffing needs related to line management, technical discipline and oversight functions, submit those staffing needs to DOE HQ, and effectively manage their resources such that qualified personnel are effectively performing those functions.
JON 44: DOE HQ needs to develop and implement a process to ensure repeatedly identified issues related to the safety management programs are confirmed, closed and validated by the local DOE office in a timely manner.
JON 45: DOE HQ needs to re-evaluate priorities and allocate the resources, i.e., funding, staffing, infrastructure, etc., applied to the WIPP project to ensure those resources effectively address safety, programmatic, and operational considerations.
JON 46: DOE HQ needs to better define and execute their roles and responsibilities in order to improve line management ownership, oversight, safety, and resources to ensure site implementation of the radiological protection, nuclear safety, ISMS, maintenance, emergency management, work planning and control and oversight policies and requirements are consistent and effective.
JON 47: DOE HQ needs to perform an effectiveness review on all corrective actions completed in response to this investigation.

Attachment 9
Waste Placement Layout Maps, Panel 7, Room 7

(Placeholder for CH Waste Placement Layout Map Panel 7, Room 7)

SHEET 1 OF 4
WASTE PLACEMENT LAYOUT
PANEL 7, ROOM 7
EXHAUST DRIFT S-2180

COPY

PANEL 7

ROOM 6

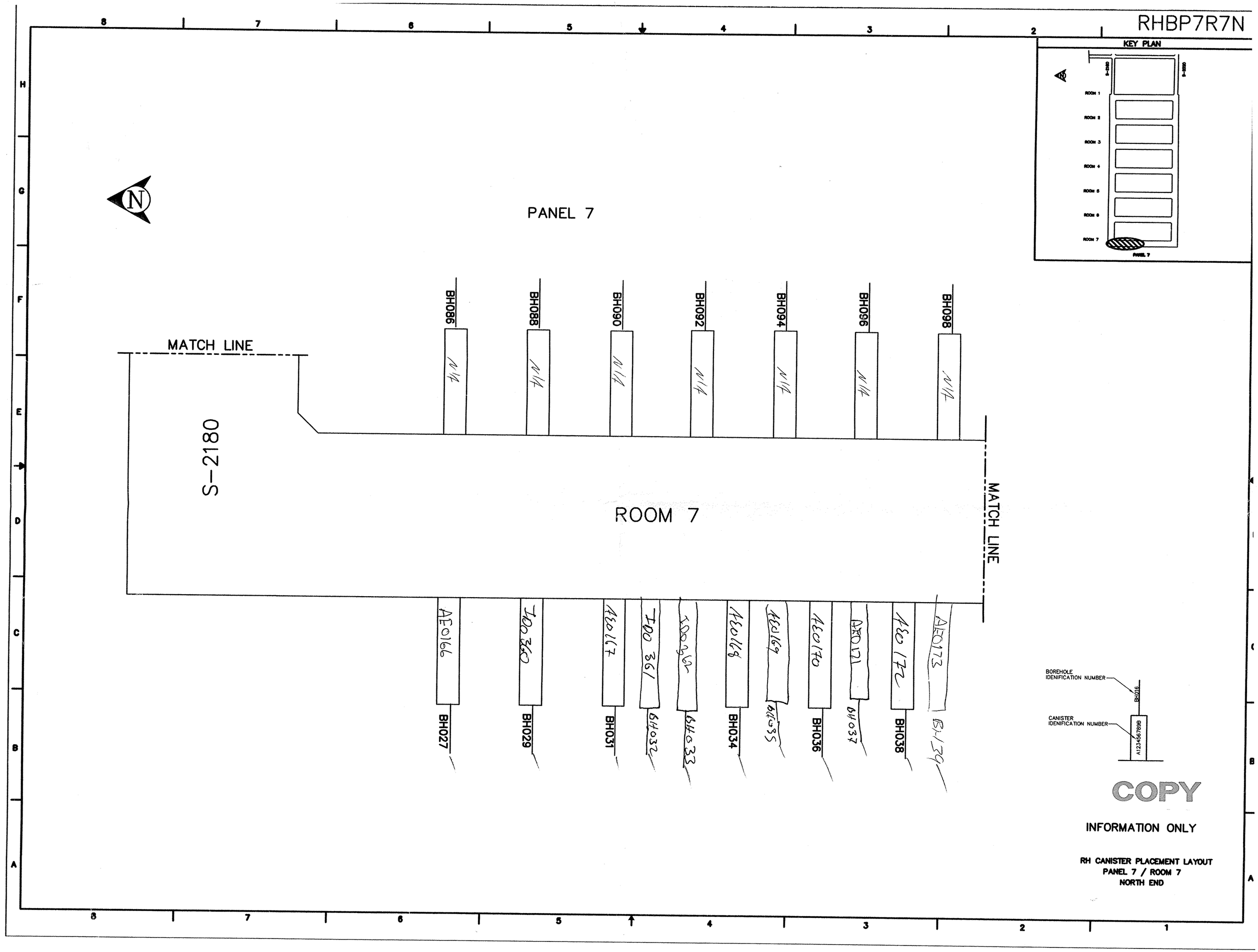
1	S N/A T M B SLB2	S N/A T M B SLB2	S N/A T M B SLB2	S N/A T M B SLB2
2	S N/A S mGO T LA00000068623 M TDOP B BN10505059	S N/A T LA8A02129 M SR46027 B SLB2	S N/A S mGO T LA00000083715 M TDOP B BN10503775	S N/A S mGO T LA00000068036 M WMABSLB4116 B SLB2
3	S N/A S mGO T LA00000068541 M TDOP B BN10503788	S N/A S mGO T BN10506844 M TDOP B BN10505055	S N/A S mGO T LA8A02130 M TDOP B BN10509616	S N/A S mGO T BN10504246 M TDOP B BN10503760
4	S N/A S N/A T LA00000068235 M TDOP B SLB2	S N/A S N/A T BN10493493 M TDOP B BN10505055	S N/A S N/A T BN10493494 M TDOP B BN10490911	S N/A S N/A T BN10503760 M TDOP B SLB2
5	S N/A S N/A T LA8A02135 M SLB2 B SR46027	S N/A S mGO T LA00000068005 M TDOP B BN10509688	S N/A S N/A T LA00000068235 M SLB2 B SR57170918	S N/A S N/A T LA8A02145 M SLB2 B SR46027
6	S N/A S N/A T LA8A02136 M TDOP B BN10505058	S N/A S N/A T LA00000068201 M TDOP B BN10505061	S N/A S mGO T BN10503008 M TDOP B BN10503772	S N/A S mGO T BN10502010 M TDOP B BN10505062
7	S N/A S N/A T BN10503753 M BN10502017 B BN10501804	S N/A S mGO T BN10501272 M TDOP B BN10503759	S N/A S N/A T HBL120052 M TDOP B BN10509606	S N/A S N/A T HBL120090 M TDOP B BN10501246
8	S N/A S N/A T BN10501733 M BN10501271 B BN10493500	S N/A S mGO T BN10503962 M BN10503786 B BN10503675	S N/A S N/A T BN10501031 M TDOP B BN10503774	S N/A S mGO T LA00000068236 M TDOP B BN10502616
9	S N/A S N/A T LA8A02137 M TDOP B BN10505052	S N/A S mGO T LA00000068120 M TDOP B BN10509601	S N/A S N/A T BN10502013 M LA00000068662 B LA00000068662	S N/A S N/A T BN10503772 M BN10495926 B BN10471160
10	S N/A S N/A T LA00000068237 M TDOP B BN10509611	S N/A S mGO T BN10475139 M BN10475131 B BN10495383	S N/A S mGO T LA00000068121 M BN10503038 B LA00000063231	S N/A S mGO T LA8A02124 M TDOP B BN10507540
11	S T M B SLB2	S N/A S N/A T LA00000068241 M TDOP B BN10503539	S N/A S N/A T BN10502280 M BN10452132 B BN10473946	S N/A S mGO T BN10498282 M TDOP B BN10502543
12	S N/A S N/A T LA8A02146 M SLB2 B WMFSLB087	S N/A S mGO T LA8A02146 M SLB2 B BN10509663	S N/A S N/A T LA8A02140 M TDOP B BN10505060	S N/A S N/A T LA8A02143 M LA00000068556 B LA00000068556
13	S N/A S N/A T LA8A02141 M TDOP B BN10473946	S N/A S N/A T LA8A02148 M TDOP B BN10503553	S N/A S N/A T LA8A02142 M TDOP B BN10509682	S N/A S mGO T LA8A02144 M TDOP B BN10507550
14	S N/A S N/A T M B	S N/A S N/A T LA8A02159 M TDOP B BN10509615	S N/A S mGO T LA00000068340 M TDOP B BN10507541	S N/A S mGO T LA8A02139 M TDOP B BN10509599
15	S N/A S N/A T BN10473146 M TDOP B BN10507554	S N/A S N/A T HBL120216 M TDOP B BN10507556	S N/A S N/A T LA8A02147 M TDOP B BN10507546	S N/A S mGO T BN10502259 M HBL120182 B HBL120121
16	S T M B	S N/A S mGO T BN10475138 M BN10475152 B BN10472999	S N/A S mGO T BN10471455 M TDOP B BN10507557	S N/A S N/A T M B SLB2
17	S T M B	S T M B	S N/A S N/A T HBL110125 M HBL110129 B HBL110113	S N/A S mGO T LA8A02141 M SLB2 B SR46020
18	S T M B	S T M B	S T M B	S N/A S mGO T BN10472952 M BN10472958 B BN10475132
19	S T M B	S T M B	S T M B	S T M B
20	S T M B	S T M B	S T M B	S T M B
21	S T M B	S T M B	S T M B	S T M B
22	S T M B	S T M B	S T M B	S T M B
23	S T M B	S T M B	S T M B	S T M B
24	S T M B	S T M B	S T M B	S T M B

ROOM

S-2180

(Placeholder for RH Canister Placement Layout Map Panel 7, Room 7, North End)

RHBP7R7N


KEY PLAN
ROOM 1
ROOM 2
ROOM 3
ROOM 4
ROOM 5
ROOM 6
ROOM 7
PANEL 7
N
PANEL 7
MATCH LINE
S-2180
ROOM 7
MATCH LINE
BH086
BH088
BH090
BH092
BH094
BH096
BH098
AE0166
BH027
TDO 360
BH029
AE0167
BH031
TDO 361
BH032
TDO 362
BH033
AE0168
BH034
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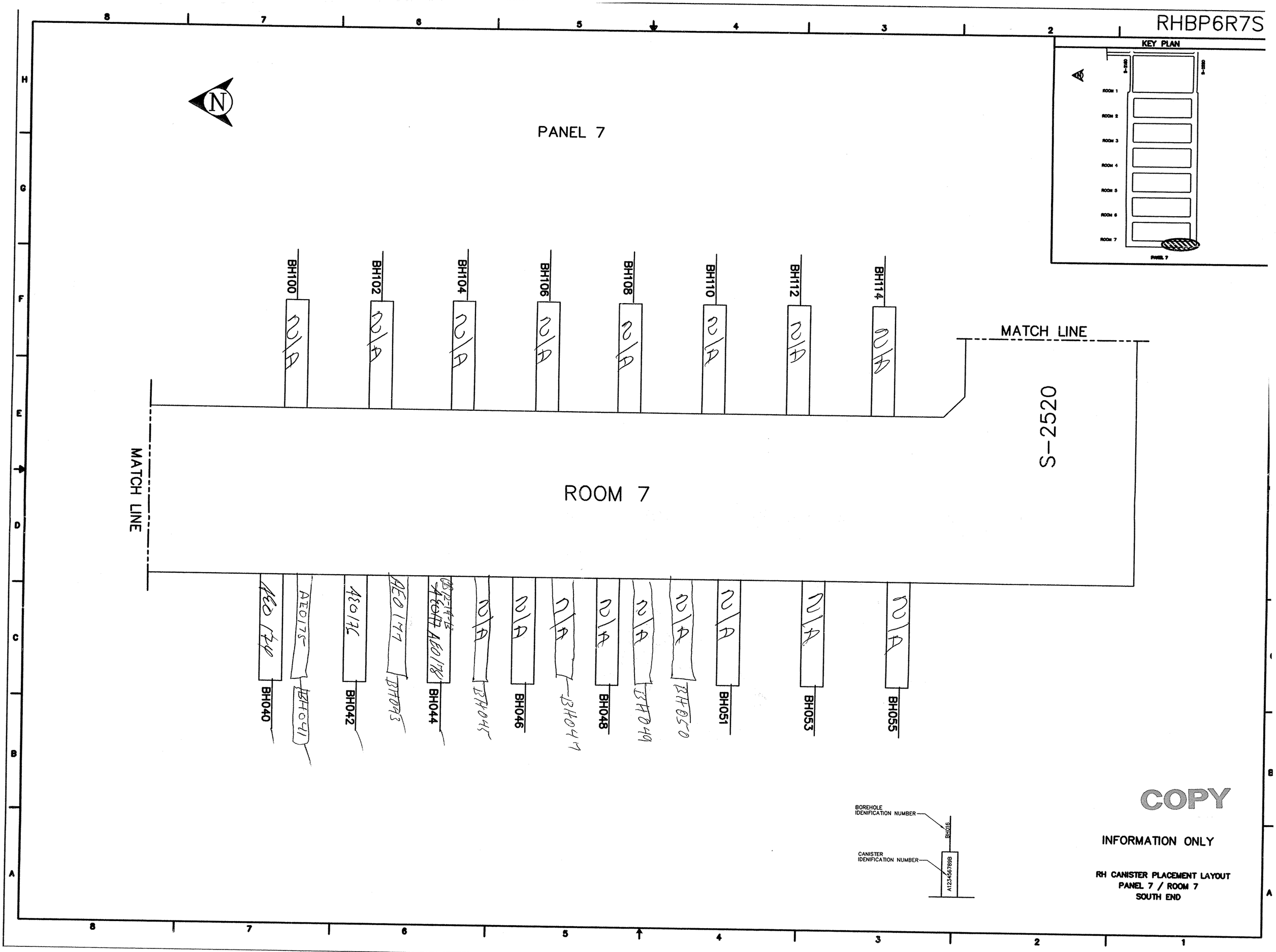
BH039
BOREHOLE IDENIFICATION NUMBER
BH016
CANISTER IDENIFICATION NUMBER
A1234567898
COPY
INFORMATION ONLY
RH CANISTER PLACEMENT LAYOUT
PANEL 7 / ROOM 7
NORTH END

(Placeholder for RH Canister Placement Layout Map Panel 7, Room 7, South End)

RHBP6R7S



COPY

INFORMATION ONLY

RH CANISTER PLACEMENT LAYOUT
PANEL 7 / ROOM 7
SOUTH END

Containers Emplaced in Panel 7:

Panel	Room	Row	Col	Hgt	BH	Container Type	Container Number	Manifest Number	Disposal Date
7	7	2	2	B		SLB2	SR46021Z	000148497MWI	22-Jan-14
7	7	2	2	T		SWB	LASB02129	010784259JJK	24-Jan-14
7	7	2	4	B		SLB2	SR57167702	000148500MWI	22-Jan-14
7	7	2	4	T		SWB	LA00000068119	010784259JJK	24-Jan-14
7	7	2	6	B		SLB2	WMAPSLB046	000148496MWI	22-Jan-14
7	7	2	6	T		55GD	LA00000068494	010784260JJK	24-Jan-14
7	7	2	6	T		55GD	LA00000068652	010784260JJK	24-Jan-14
7	7	2	6	T		55GD	LA00000093814	010784260JJK	24-Jan-14
7	7	2	6	T		55GD	LA00000093822	010784260JJK	24-Jan-14
7	7	2	6	T		55GD	LA00000093888	010784260JJK	24-Jan-14
7	7	2	6	T		55GD-Dun	LDUN1440	010784260JJK	24-Jan-14
7	7	2	6	T		55GD-Dun	LDUN1441	010784260JJK	24-Jan-14
7	7	3	1	B		TDOP	BN10505059	001600944GBF	24-Jan-14
7	7	3	1	T		55GD	LA00000066775	010784260JJK	24-Jan-14
7	7	3	1	T		55GD	LA00000067171	010784260JJK	24-Jan-14
7	7	3	1	T		55GD	LA00000068614	010784260JJK	24-Jan-14
7	7	3	1	T		55GD	LA00000068623	010784260JJK	24-Jan-14
7	7	3	1	T		55GD	LA00000068671	010784260JJK	24-Jan-14
7	7	3	1	T		55GD-Dun	LDUN1444	010784260JJK	24-Jan-14
7	7	3	1	T		55GD-Dun	LDUN1445	010784260JJK	24-Jan-14
7	7	3	3	B		TDOP	BN10503775	001600947GBF	24-Jan-14
7	7	3	3	T		55GD	LA00000068571	010784260JJK	24-Jan-14
7	7	3	3	T		55GD	LA00000068635	010784260JJK	24-Jan-14
7	7	3	3	T		55GD	LA00000068636	010784260JJK	24-Jan-14
7	7	3	3	T		55GD	LA00000068672	010784260JJK	24-Jan-14
7	7	3	3	T		55GD	LA00000083715	010784260JJK	24-Jan-14
7	7	3	3	T		55GD-Dun	LDUN1442	010784260JJK	24-Jan-14
7	7	3	3	T		55GD-Dun	LDUN1443	010784260JJK	24-Jan-14
7	7	3	5	B		TDOP	BN10501246	001600950GBF	24-Jan-14
7	7	3	5	T		100GD	BN10506128	001600939GBF	24-Jan-14

Panel	Room	Row	Col	Hgt	BH	Container Type	Container Number	Manifest Number	Disposal Date
7	7	3	5	T		100GD	BN10506136	001600939GBF	24-Jan-14
7	7	3	5	T		100GD	BN10506836	001600939GBF	24-Jan-14
7	7	4	2	B		TDOP	BN10505055	001600941GBF	24-Jan-14
7	7	4	2	T		100GD	BN10506835	001600939GBF	24-Jan-14
7	7	4	2	T		100GD	BN10506842	001600939GBF	24-Jan-14
7	7	4	2	T		100GD	BN10506844	001600939GBF	24-Jan-14
7	7	4	4	B		TDOP	BN10509616	001600952GBF	24-Jan-14
7	7	4	4	T		SWB	LASB02130	010784258JJK	24-Jan-14
7	7	4	6	B		TDOP	BN10503760	001600947GBF	24-Jan-14
7	7	4	6	T		SWB	SB10147	010784258JJK	24-Jan-14
7	7	5	1	B		TDOP	BN10503788	001600944GBF	24-Jan-14
7	7	5	1	T		55GD	LA00000068541	010784261JJK	25-Jan-14
7	7	5	1	T		55GD	LA00000068605	010784261JJK	25-Jan-14
7	7	5	1	T		55GD	LA00000068629	010784261JJK	25-Jan-14
7	7	5	1	T		55GD	LA00000068654	010784261JJK	25-Jan-14
7	7	5	1	T		55GD	LA00000068655	010784261JJK	25-Jan-14
7	7	5	1	T		55GD-Dun	LDUN1446	010784261JJK	25-Jan-14
7	7	5	1	T		55GD-Dun	LDUN1447	010784261JJK	25-Jan-14
7	7	5	3	B		TDOP	BN10490912	001600942GBF	25-Jan-14
7	7	5	3	T		SWB	BN10493493	001600935GBF	25-Jan-14
7	7	5	5	B		TDOP	BN10490911	001600942GBF	25-Jan-14
7	7	5	5	T		SWB	BN10493494	001600935GBF	25-Jan-14
7	7	7	1	B		SLB2	SR46019	000148501MWI	25-Jan-14
7	7	7	1	T		SWB	LASB02135	010784263JJK	26-Jan-14
7	7	7	3	B		SLB2	SR57170918	000148494MWI	25-Jan-14
7	7	7	3	T		SWB	LA00000068235	010784263JJK	26-Jan-14
7	7	7	5	B		SLB2	SR46029Z	000148495MWI	25-Jan-14
7	7	7	5	T		SWB	LASB02145	010784263JJK	26-Jan-14
7	7	8	2	B		TDOP	BN10509688	001600954GBF	26-Jan-14
7	7	8	2	T		SWB	LA00000068005	010784259JJK	26-Jan-14
7	7	8	4	B		TDOP	BN10503777	001600951GBF	26-Jan-14
7	7	8	4	T		SWB	BN10502008	001600946GBF	26-Jan-14
7	7	8	6	B		TDOP	BN10505062	001600946GBF	26-Jan-14

Panel	Room	Row	Col	Hgt	BH	Container Type	Container Number	Manifest Number	Disposal Date
7	7	8	6	T		SWB	BN10502010	001600947GBF	26-Jan-14
7	7	9	1	B		TDOP	BN10505058	001600946GBF	26-Jan-14
7	7	9	1	T		SWB	LASB02126	010784259JJK	26-Jan-14
7	7	9	3	B		TDOP	BN10509606	001600956GBF	28-Jan-14
7	7	9	3	T		12-in POP	HBL110186	000148499MWI	28-Jan-14
7	7	9	3	T		12-in POP	HBL120043	000148499MWI	28-Jan-14
7	7	9	3	T		12-in POP	HBL120051	000148499MWI	28-Jan-14
7	7	9	3	T		12-in POP	HBL120052	000148499MWI	28-Jan-14
7	7	9	3	T		12-in POP	HBL120056	000148499MWI	28-Jan-14
7	7	9	3	T		12-in POP	HBL120096	000148499MWI	28-Jan-14
7	7	9	3	T		55GD-Dun	SRSDUN686	000148499MWI	28-Jan-14
7	7	9	5	B		TDOP	BN10501248	001600957GBF	28-Jan-14
7	7	9	5	T		12-in POP	HBL120090	000148499MWI	28-Jan-14
7	7	9	5	T		12-in POP	HBL120091	000148499MWI	28-Jan-14
7	7	9	5	T		12-in POP	HBL120092	000148499MWI	28-Jan-14
7	7	9	5	T		12-in POP	HBL120093	000148499MWI	28-Jan-14
7	7	9	5	T		12-in POP	HBL120094	000148499MWI	28-Jan-14
7	7	9	5	T		12-in POP	HBL120097	000148499MWI	28-Jan-14
7	7	9	5	T		12-in POP	HBL120233	000148499MWI	28-Jan-14
7	7	10	2	B		TDOP	BN10505061	001600959GBF	28-Jan-14
7	7	10	2	T		55GD	LA00000067040	010784264JJK	28-Jan-14
7	7	10	2	T		55GD	LA00000068481	010784264JJK	28-Jan-14
7	7	10	2	T		55GD	LA00000068501	010784264JJK	28-Jan-14
7	7	10	2	T		55GD	LA00000068669	010784264JJK	28-Jan-14
7	7	10	2	T		55GD	LA00000068680	010784264JJK	28-Jan-14
7	7	10	2	T		55GD-Dun	LDUN1454	010784264JJK	28-Jan-14
7	7	10	2	T		55GD-Dun	LDUN1455	010784264JJK	28-Jan-14
7	7	10	4	B		TDOP	BN10509618	001600954GBF	28-Jan-14
7	7	10	4	T		55GD	LA00000068573	010784264JJK	28-Jan-14
7	7	10	4	T		55GD	LA00000068578	010784264JJK	28-Jan-14
7	7	10	4	T		55GD	LA00000068647	010784264JJK	28-Jan-14
7	7	10	4	T		55GD	LA00000069023	010784264JJK	28-Jan-14
7	7	10	4	T		55GD	LA00000093295	010784264JJK	28-Jan-14

Panel	Room	Row	Col	Hgt	BH	Container Type	Container Number	Manifest Number	Disposal Date
7	7	10	4	T		55GD-Dun	LDUN1452	010784264JJK	28-Jan-14
7	7	10	4	T		55GD-Dun	LDUN1453	010784264JJK	28-Jan-14
7	7	10	6	B		12-in POP	LA00000068422	010784264JJK	28-Jan-14
7	7	10	6	B		12-in POP	LA00000068423	010784264JJK	28-Jan-14
7	7	10	6	B		12-in POP	LA00000068424	010784264JJK	28-Jan-14
7	7	10	6	B		12-in POP	LA00000068512	010784264JJK	28-Jan-14
7	7	10	6	B		12-in POP	LA00000068577	010784264JJK	28-Jan-14
7	7	10	6	B		12-in POP	LA00000068582	010784264JJK	28-Jan-14
7	7	10	6	B		12-in POP	LA00000068618	010784264JJK	28-Jan-14
7	7	10	6	M		12-in POP	LA00000068394	010784264JJK	28-Jan-14
7	7	10	6	M		12-in POP	LA00000068395	010784264JJK	28-Jan-14
7	7	10	6	M		12-in POP	LA00000068510	010784264JJK	28-Jan-14
7	7	10	6	M		12-in POP	LA00000068511	010784264JJK	28-Jan-14
7	7	10	6	M		12-in POP	LA00000068513	010784264JJK	28-Jan-14
7	7	10	6	M		12-in POP	LA00000085273	010784264JJK	28-Jan-14
7	7	10	6	M		12-in POP	LA00000087907	010784264JJK	28-Jan-14
7	7	10	6	T		100GD	BN10507958	001600957GBF	28-Jan-14
7	7	10	6	T		100GD	BN10507959	001600957GBF	28-Jan-14
7	7	10	6	T		100GD	BN10507960	001600957GBF	28-Jan-14
7	7	11	1	B		SWB	BN10501804	001600935GBF	28-Jan-14
7	7	11	1	M		SWB	BN10502017	001600951GBF	28-Jan-14
7	7	11	1	T		100GD	BN10507952	001600956GBF	28-Jan-14
7	7	11	1	T		100GD	BN10507953	001600956GBF	28-Jan-14
7	7	11	1	T		100GD	BN10507957	001600956GBF	28-Jan-14
7	7	11	3	B		TDOP	BN10503774	001600956GBF	28-Jan-14
7	7	11	3	T		SWB	BN10501031	001600953GBF	29-Jan-14
7	7	11	5	B		SWB	BN10471160	001600953GBF	29-Jan-14
7	7	11	5	M		SWB	BN10495926	001600953GBF	29-Jan-14
7	7	11	5	T		SWB	BN10501798	001600953GBF	29-Jan-14
7	7	12	2	B		TDOP	BN10507542	001600955GBF	29-Jan-14
7	7	12	2	T		SWB	BN10501272	001600955GBF	29-Jan-14
7	7	12	4	B		SWB	BN10501028	001600948GBF	29-Jan-14
7	7	12	4	M		SWB	BN10502009	001600948GBF	29-Jan-14

Panel	Room	Row	Col	Hgt	BH	Container Type	Container Number	Manifest Number	Disposal Date
7	7	12	4	T		SWB	LA00000068121	010784263JJK	29-Jan-14
7	7	12	6	B		TDOP	BN10507540	001600945GBF	29-Jan-14
7	7	12	6	T		SWB	LASB02134	010784263JJK	29-Jan-14
7	7	13	1	B		SWB	BN10493500	001600959GBF	29-Jan-14
7	7	13	1	M		SWB	BN10501271	001600953GBF	29-Jan-14
7	7	13	1	T		SWB	BN10501273	001600952GBF	29-Jan-14
7	7	13	3	B		55GD	LA00000068545	010784261JJK	29-Jan-14
7	7	13	3	B		55GD	LA00000068548	010784261JJK	29-Jan-14
7	7	13	3	B		55GD	LA00000068576	010784261JJK	29-Jan-14
7	7	13	3	B		55GD	LA00000068609	010784261JJK	29-Jan-14
7	7	13	3	B		55GD	LA00000068659	010784261JJK	29-Jan-14
7	7	13	3	B		55GD-Dun	LDUN1448	010784261JJK	29-Jan-14
7	7	13	3	B		55GD-Dun	LDUN1449	010784261JJK	29-Jan-14
7	7	13	3	M		55GD	LA00000066912	010784261JJK	29-Jan-14
7	7	13	3	M		55GD	LA00000068581	010784261JJK	29-Jan-14
7	7	13	3	M		55GD	LA00000068626	010784261JJK	29-Jan-14
7	7	13	3	M		55GD	LA00000068653	010784261JJK	29-Jan-14
7	7	13	3	M		55GD	LA00000068666	010784261JJK	29-Jan-14
7	7	13	3	M		55GD-Dun	LDUN1450	010784261JJK	29-Jan-14
7	7	13	3	M		55GD-Dun	LDUN1451	010784261JJK	29-Jan-14
7	7	13	3	T		SWB	BN10502013	001600950GBF	29-Jan-14
7	7	13	5	B		SWB	BN10473945	001600958GBF	29-Jan-14
7	7	13	5	M		SWB	BN10457132	001600958GBF	29-Jan-14
7	7	13	5	T		SWB	BN10502260	001600948GBF	30-Jan-14
7	7	14	2	B		100GD	BN10502785	001600958GBF	29-Jan-14
7	7	14	2	B		100GD	BN10507470	001600958GBF	29-Jan-14
7	7	14	2	B		100GD	BN10507475	001600958GBF	29-Jan-14
7	7	14	2	M		100GD	BN10502786	001600958GBF	29-Jan-14
7	7	14	2	M		100GD	BN10502908	001600958GBF	29-Jan-14
7	7	14	2	M		100GD	BN10502914	001600958GBF	29-Jan-14
7	7	14	2	T		100GD	BN10507961	001600958GBF	30-Jan-14
7	7	14	2	T		100GD	BN10507962	001600958GBF	30-Jan-14
7	7	14	2	T		100GD	BN10507963	001600958GBF	30-Jan-14

Panel	Room	Row	Col	Hgt	BH	Container Type	Container Number	Manifest Number	Disposal Date
7	7	14	4	B		SWB	LASB02136	010784262JJK	30-Jan-14
7	7	14	4	M		SWB	LA00000068229	010784262JJK	30-Jan-14
7	7	14	4	T		SWB	LA00000068231	010784262JJK	30-Jan-14
7	7	14	6	B		TDOP	BN10507543	001600955GBF	30-Jan-14
7	7	14	6	T		SWB	BN10498202	001600948GBF	30-Jan-14
7	7	15	1	B		TDOP	BN10505082	001600945GBF	30-Jan-14
7	7	15	1	T		SWB	LASB02137	010784262JJK	30-Jan-14
7	7	15	3	B		TDOP	BN10500612	001600951GBF	30-Jan-14
7	7	15	3	T		55GD	BN10207343	001600954GBF	30-Jan-14
7	7	15	3	T		55GD	BN10213478	001600954GBF	30-Jan-14
7	7	15	3	T		55GD	BN10305286	001600954GBF	30-Jan-14
7	7	15	3	T		55GD	BN10305408	001600954GBF	30-Jan-14
7	7	15	3	T		55GD	BN10308577	001600954GBF	30-Jan-14
7	7	15	3	T		55GD	BN10308661	001600954GBF	30-Jan-14
7	7	15	3	T		55GD	BN10403891	001600954GBF	30-Jan-14
7	7	15	5	B		55GD	LA00000068459	010784266JJK	31-Jan-14
7	7	15	5	B		55GD	LA00000068667	010784266JJK	31-Jan-14
7	7	15	5	B		55GD	LA00000068668	010784266JJK	31-Jan-14
7	7	15	5	B		55GD	LA00000068687	010784266JJK	31-Jan-14
7	7	15	5	B		55GD	LA00000094152	010784266JJK	31-Jan-14
7	7	15	5	B		55GD-Dun	LDUN1458	010784266JJK	31-Jan-14
7	7	15	5	B		55GD-Dun	LDUN1459	010784266JJK	31-Jan-14
7	7	15	5	M		55GD	LA00000067039	010784265JJK	31-Jan-14
7	7	15	5	M		55GD	LA00000068328	010784265JJK	31-Jan-14
7	7	15	5	M		55GD	LA00000068555	010784265JJK	31-Jan-14
7	7	15	5	M		55GD	LA00000068649	010784265JJK	31-Jan-14
7	7	15	5	M		55GD	LA00000088053	010784265JJK	31-Jan-14
7	7	15	5	M		55GD-Dun	LDUN1456	010784265JJK	31-Jan-14
7	7	15	5	M		55GD-Dun	LDUN1457	010784265JJK	31-Jan-14
7	7	15	5	T		SWB	LASB02143	010784266JJK	31-Jan-14
7	7	16	2	B		TDOP	BN10509601	001600961GBF	31-Jan-14
7	7	16	2	T		SWB	LA00000068120	010784265JJK	1-Feb-14
7	7	16	4	B		TDOP	BN10509682	001600961GBF	31-Jan-14

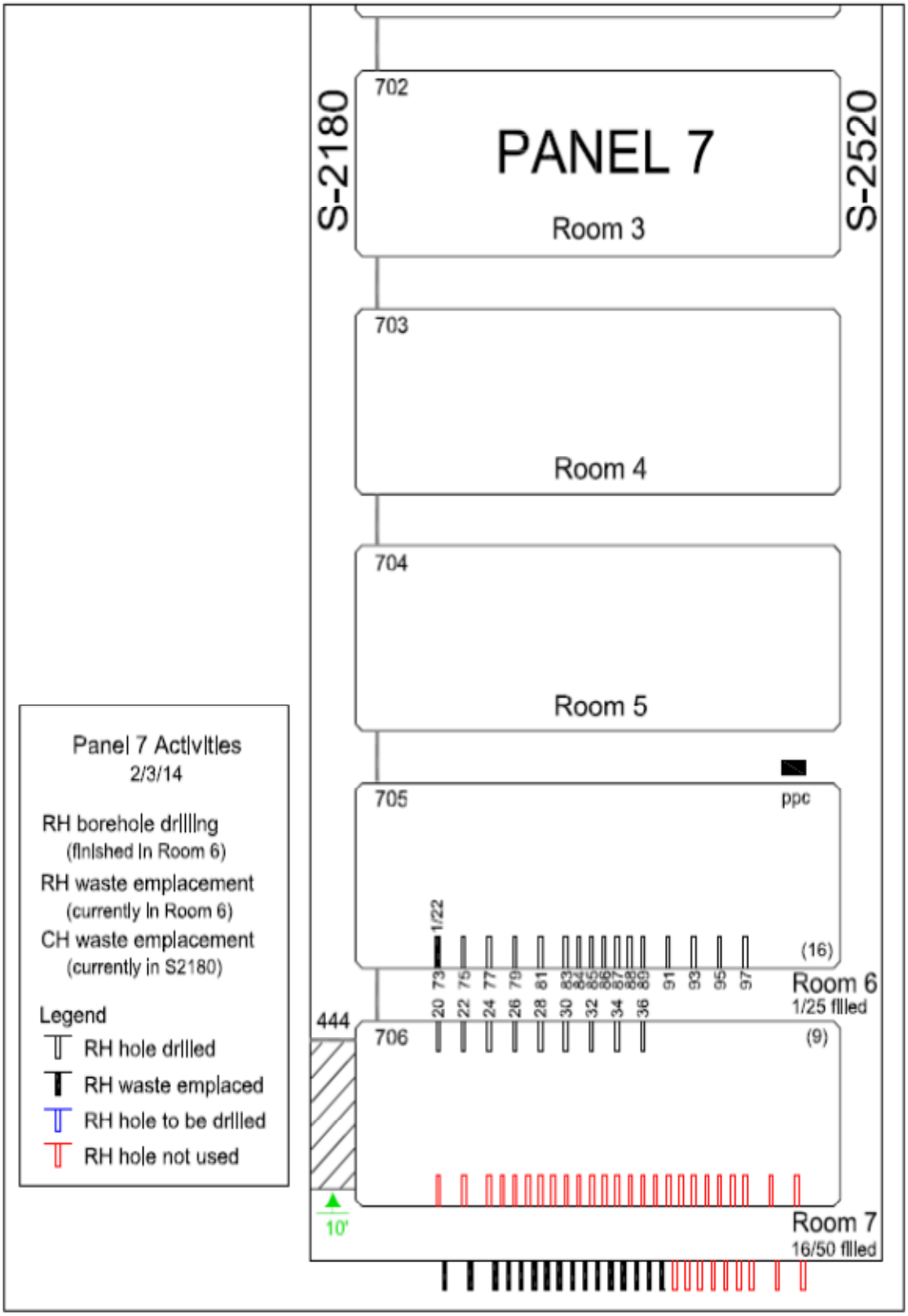
Panel	Room	Row	Col	Hgt	BH	Container Type	Container Number	Manifest Number	Disposal Date
7	7	16	4	T		55GD	LA00000068333	010784268JJK	31-Jan-14
7	7	16	4	T		55GD	LA00000068607	010784268JJK	31-Jan-14
7	7	16	4	T		55GD	LA00000068630	010784268JJK	31-Jan-14
7	7	16	4	T		55GD	LA00000068660	010784268JJK	31-Jan-14
7	7	16	4	T		55GD	LA00000068670	010784268JJK	31-Jan-14
7	7	16	4	T		55GD-Dun	LDUN1460	010784268JJK	31-Jan-14
7	7	16	4	T		55GD-Dun	LDUN1461	010784268JJK	31-Jan-14
7	7	16	6	B		TDOP	BN10507550	001600963GBF	31-Jan-14
7	7	16	6	T		SWB	LASB02144	010784268JJK	31-Jan-14
7	7	17	1	B		TDOP	BN10509611	001600957GBF	1-Feb-14
7	7	17	1	T		SWB	LA00000068237	010784268JJK	1-Feb-14
7	7	17	3	B		TDOP	BN10505060	001600959GBF	1-Feb-14
7	7	17	3	T		SWB	LASB02140	010784268JJK	1-Feb-14
7	7	17	5	B		TDOP	BN10509599	001600963GBF	1-Feb-14
7	7	17	5	T		SWB	LASB02139	010784265JJK	1-Feb-14
7	7	18	2	B		SWB	BN10495383	001600960GBF	1-Feb-14
7	7	18	2	M		SWB	BN10475131	001600960GBF	1-Feb-14
7	7	18	2	T		SWB	BN10475139	001600962GBF	1-Feb-14
7	7	18	4	B		TDOP	BN10509687	001600962GBF	1-Feb-14
7	7	18	4	T		SWB	LASB02142	010784266JJK	1-Feb-14
7	7	18	6	B		12-in POP	HBL120089	000148503MWI	1-Feb-14
7	7	18	6	B		12-in POP	HBL120106	000148503MWI	1-Feb-14
7	7	18	6	B		12-in POP	HBL120110	000148503MWI	1-Feb-14
7	7	18	6	B		12-in POP	HBL120121	000148503MWI	1-Feb-14
7	7	18	6	B		12-in POP	HBL120139	000148503MWI	1-Feb-14
7	7	18	6	B		12-in POP	HBL120141	000148503MWI	1-Feb-14
7	7	18	6	B		12-in POP	HBL120213	000148503MWI	1-Feb-14
7	7	18	6	M		12-in POP	HBL120146	000148503MWI	1-Feb-14
7	7	18	6	M		12-in POP	HBL120166	000148503MWI	1-Feb-14
7	7	18	6	M		12-in POP	HBL120182	000148503MWI	1-Feb-14
7	7	18	6	M		12-in POP	HBL120189	000148503MWI	1-Feb-14
7	7	18	6	M		12-in POP	HBL120229	000148503MWI	1-Feb-14
7	7	18	6	M		12-in POP	HBL120239	000148503MWI	1-Feb-14

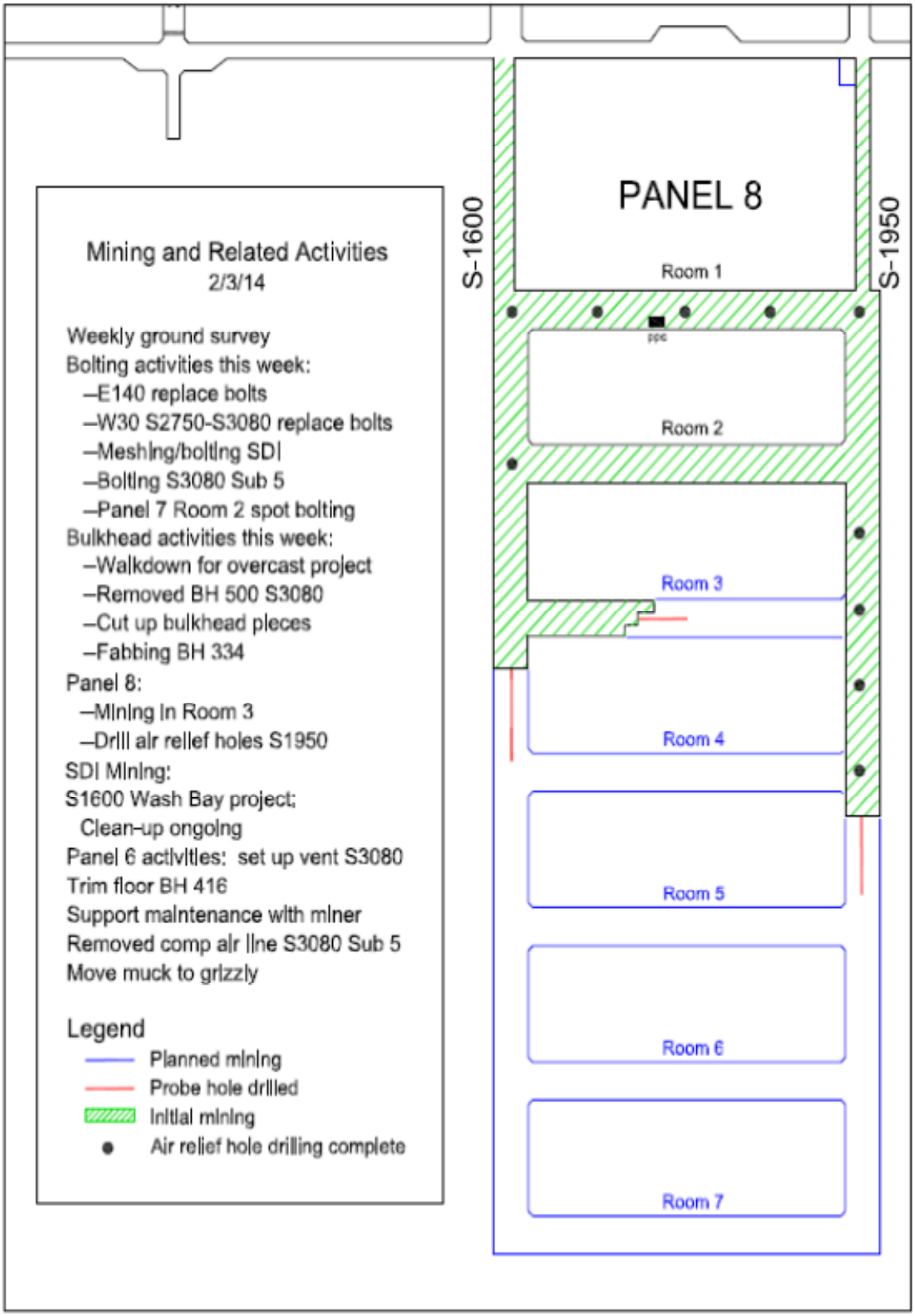
Panel	Room	Row	Col	Hgt	BH	Container Type	Container Number	Manifest Number	Disposal Date
7	7	18	6	M		55GD-Dun	SRSDUN687	000148503MWI	1-Feb-14
7	7	18	6	T		SWB	BN10502259	001600960GBF	1-Feb-14
7	7	19	3	B		TDOP	BN10507539	001600949GBF	2-Feb-14
7	7	19	3	T		SWB	LA00000068241	010784269JJK	2-Feb-14
7	7	20	2	B		SLB2	WMAPSLB007	000148504MWI	2-Feb-14
7	7	20	2	T		SWB	LASB02146	010784269JJK	2-Feb-14
7	7	20	4	B		TDOP	BN10507541	001600949GBF	2-Feb-14
7	7	20	4	T		SWB	LA00000068240	010784269JJK	2-Feb-14
7	7	20	6	B		SLB2	SR46020	000148502MWI	2-Feb-14
7	7	20	6	T		SWB	LASB02141	010784269JJK	2-Feb-14
7	7	21	1	B		TDOP	BN10505063	001600950GBF	2-Feb-14
7	7	21	1	T		SWB	LASB02161	010784270JJK	2-Feb-14
7	7	21	3	B		TDOP	BN10509615	001600952GBF	2-Feb-14
7	7	21	3	T		SWB	LASB02159	010784270JJK	2-Feb-14
7	7	21	5	B		TDOP	BN10507549	001600962GBF	2-Feb-14
7	7	21	5	T		SWB	LASB02147	010784265JJK	2-Feb-14
7	7	22	2	B		TDOP	BN10507553	001600966GBF	2-Feb-14
7	7	22	2	T		SWB	LASB02148	010784262JJK	4-Feb-14
7	7	22	4	B		TDOP	BN10507557	001600966GBF	2-Feb-14
7	7	22	4	T		SWB	BN10471455	001600961GBF	4-Feb-14
7	7	22	6	B		SWB	BN10475132	001600960GBF	4-Feb-14
7	7	22	6	M		SWB	BN10472958	001600960GBF	4-Feb-14
7	7	22	6	T		SWB	BN10472952	001600965GBF	4-Feb-14
7	7	23	1	B		TDOP	BN10507554	001600967GBF	4-Feb-14
7	7	23	1	T		SWB	BN10473946	001600967GBF	4-Feb-14
7	7	23	3	B		TDOP	BN10507555	001600967GBF	4-Feb-14
7	7	23	3	T		12-in POP	HBL110146	000148499MWI	4-Feb-14
7	7	23	3	T		12-in POP	HBL110154	000148499MWI	4-Feb-14
7	7	23	3	T		12-in POP	HBL120101	000148499MWI	4-Feb-14
7	7	23	3	T		12-in POP	HBL120198	000148499MWI	4-Feb-14
7	7	23	3	T		12-in POP	HBL120199	000148499MWI	4-Feb-14
7	7	23	3	T		12-in POP	HBL120215	000148499MWI	4-Feb-14
7	7	23	3	T		12-in POP	HBL120217	000148499MWI	4-Feb-14

Panel	Room	Row	Col	Hgt	BH	Container Type	Container Number	Manifest Number	Disposal Date
7	7	23	5	B		12-in POP	HBL110111	000148499MWI	4-Feb-14
7	7	23	5	B		12-in POP	HBL110112	000148499MWI	4-Feb-14
7	7	23	5	B		12-in POP	HBL110113	000148499MWI	4-Feb-14
7	7	23	5	B		12-in POP	HBL110116	000148499MWI	4-Feb-14
7	7	23	5	B		12-in POP	HBL110126	000148499MWI	4-Feb-14
7	7	23	5	B		12-in POP	HBL110127	000148499MWI	4-Feb-14
7	7	23	5	B		12-in POP	HBL110180	000148499MWI	4-Feb-14
7	7	23	5	M		12-in POP	HBL110114	000148499MWI	4-Feb-14
7	7	23	5	M		12-in POP	HBL110118	000148499MWI	4-Feb-14
7	7	23	5	M		12-in POP	HBL110119	000148499MWI	4-Feb-14
7	7	23	5	M		12-in POP	HBL110129	000148499MWI	4-Feb-14
7	7	23	5	M		12-in POP	HBL120026	000148499MWI	4-Feb-14
7	7	23	5	M		12-in POP	HBL120039	000148499MWI	4-Feb-14
7	7	23	5	M		55GD-Dun	SRSDUN688	000148499MWI	4-Feb-14
7	7	23	5	T		12-in POP	HBL110121	000148499MWI	4-Feb-14
7	7	23	5	T		12-in POP	HBL110123	000148499MWI	4-Feb-14
7	7	23	5	T		12-in POP	HBL110125	000148499MWI	4-Feb-14
7	7	23	5	T		12-in POP	HBL110179	000148499MWI	4-Feb-14
7	7	23	5	T		12-in POP	HBL120021	000148499MWI	4-Feb-14
7	7	23	5	T		55GD-Dun	SRSDUN690	000148499MWI	4-Feb-14
7	7	23	5	T		55GD-Dun	SRSDUN691	000148499MWI	4-Feb-14
7	7	24	2	B		SWB	BN10472959	001600964GBF	5-Feb-14
7	7	24	2	M		SWB	BN10472957	001600964GBF	5-Feb-14
7	7	24	2	T		SWB	BN10475138	001600966GBF	5-Feb-14
7	7				027	72-B Rem	AE0166	010995118JJK	26-Sep-13
7	7				029	72-B Rem	ID0360	000372354JJK	27-Sep-13
7	7				031	72-B Rem	AE0167	010995137JJK	3-Oct-13
7	7				032	72-B Rem	ID0361	000372357JJK	4-Oct-13
7	7				033	72-B Rem	ID0362	000372360JJK	11-Oct-13
7	7				034	72-B Rem	AE0168	010995148JJK	15-Oct-13
7	7				035	72-B Rem	AE0169	010995150JJK	16-Oct-13
7	7				036	72-B Rem	AE0170	010995151JJK	17-Oct-13
7	7				037	72-B Rem	AE0171	010995152JJK	22-Oct-13

Panel	Room	Row	Col	Hgt	BH	Container Type	Container Number	Manifest Number	Disposal Date
7	7				038	72-B Rem	AE0172	010995157JJK	29-Oct-13
7	7				039	72-B Rem	AE0173	010995168JJK	6-Nov-13
7	7				040	72-B Rem	AE0174	010995169JJK	7-Nov-13
7	7				041	72-B Rem	AE0175	010995178JJK	13-Nov-13
7	7				042	72-B Rem	AE0176	010995179JJK	14-Nov-13
7	7				043	72-B Rem	AE0177	010995183JJK	18-Dec-13
7	7				044	72-B Rem	AE0178	010995185JJK	19-Dec-13
7	6				073	72-B Rem	ID0363	000372393JJK	22-Jan-14
7	6				075	72-B Rem	ID0364	000372395JJK	5-Feb-14

Attachment 10
Weekly Map Update, Panels 7 and 8


Panel 7 Activities
2/3/14
RH borehole drilling
(finished in Room 6)
RH waste emplacement
(currently in Room 6)
CH waste emplacement
(currently in S2180)
Legend
RH hole drilled
RH waste emplaced
RH hole to be drilled
RH hole not used
S-2180
S-2520
702
PANEL 7
Room 3
703
Room 4
704
Room 5
705
ppc
1/22
(16)
Room 6
1/25 filled
444
706
(9)
10'
Room 7
16/50 filled


Mining and Related Activities
2/3/14
Weekly ground survey
Bolting activities this week:
–E140 replace bolts
–W30 S2750-S3080 replace bolts
–Meshing/bolting SDI
–Bolting S3080 Sub 5
–Panel 7 Room 2 spot bolting
Bulkhead activities this week:
–Walkdown for overcast project
–Removed BH 500 S3080
–Cut up bulkhead pieces
–Fabbing BH 334
Panel 8:
–Mining in Room 3
–Drill air relief holes S1950
SDI Mining:
S1600 Wash Bay project:
Clean-up ongoing
Panel 6 activities: set up vent S3080
Trim floor BH 416
Support maintenance with miner
Removed comp air line S3080 Sub 5
Move muck to grizzly
Legend
Planned mining
Probe hole drilled
Initial mining
Air relief hole drilling complete
S-1600
PANEL 8
S-1950
Room 1
Room 2
Room 3
Room 4
Room 5
Room 6
Room 7

Attachment 11
As-Found Condition of Panel 7

Photo 11.1

Waste Face of Panel 7, Room 7 As Found Condition, April 23, 2014

Photo 11.2

Panel 7, Room 7 Found Geomechanically Stable with Evidence of Smoke in Ribs, May 10, 2014

Photo 11.3

Piles of MgO Observed on Top of Waste Stacks, May 10, 2014

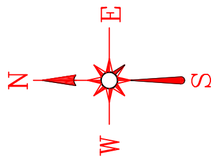
Photo 11.4

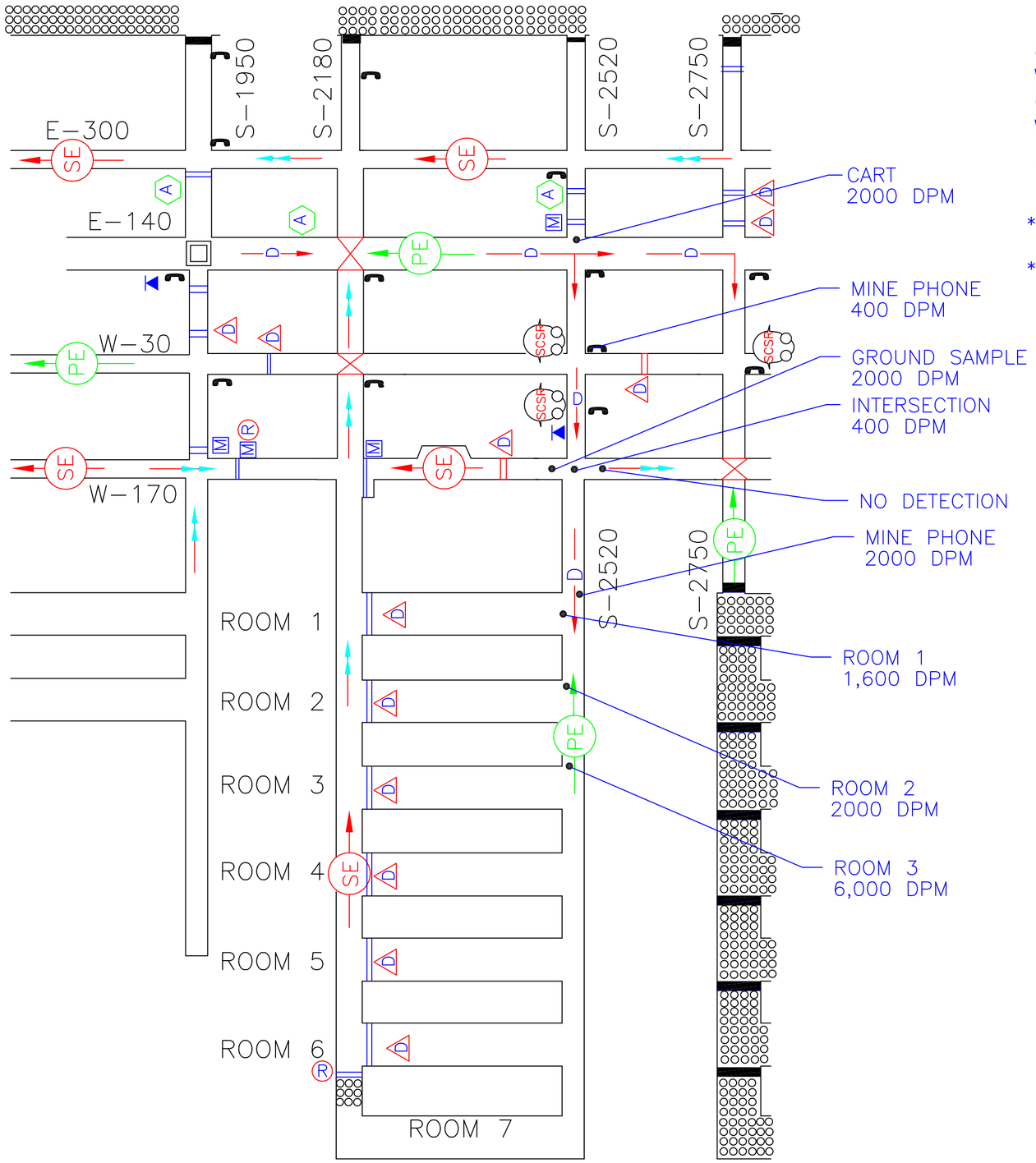
Evidence of Breached Container and Damaged Slip Sheets, May 15, 2014

Photo 11.5

Panel 7 Bulkhead Viewed from Rear of Panel 7, Room 6, April 23, 2014

FILE: RAD014052





FOR INFORMATION ONLY

(ALPHA) LUDLUM 12
W/AC-3 PROBE
(BETA /GAMA) LUDLUM 12
W/HP-110 PROBE

DOSE RATE RO-20

* RAD READINGS ARE BY SWIPE AND DIRECT SCAN

* DPM ∝ VALUES ARE AT 100 CM2

LEGEND

∝ ALPHA	DPM DISINTEGRATIONS PER MINUTES
	CM2 CENTIMETERS SQUARED
INTAKE SUPPLY AIR	BULKHEAD W/MANDOOR AIRLOCK
RETURN AIR	MANDOOR
WASTE HANDLING CIRCUIT	VEHICLE DOOR W/MAN DOOR (TWO DOORS FORM AN AIRLOCK)
NORTH AREA CIRCUIT	FIRE DOOR
CONSTRUCTION CIRCUIT	PRIMARY ESCAPEWAY
DISPOSAL CIRCUIT	SECONDARY ESCAPEWAY
BARRICADE	CRIBSET
BULKHEAD	VERTICAL SHAFT
NORMALLY OPEN	OVERCAST
MINE PHONE	EXISTING EXCAVATION
TELEPHONE	CHAINLINK & BRATTICE BARRIER
UNPASSABLE BULKHEAD (PROHIBITED AREA)	WASTE DRUMS
EMERGENCY BARRICADED AREA	CHECK CURTAIN
ASSEMBLY AREA	(SCSR) SELF CONTAINED SELF RESCUER CACHE (MARKED BY STROBE LIGHTS)
TEMPORARY BULKHEAD	
BACKFILLED AREA	
REGULATOR	

NOTES

1. DRIFT WIDTHS NOT TO SCALE, ENLARGED 2X FOR CLARITY.
2. EXISTING EXCAVATION REFLECTS STATUS AS OF 1/20/14.
3. ALL DESIGNATED ASSEMBLY AREAS ARE EQUIPPED WITH A DIAL PHONE PAGER PHONE, AND MINER'S AID STATION. EXTENSION NUMBERS FOR DIAL PHONES ARE PROVIDED UNDER HEADING "LOCATION OF ASSEMBLY AREAS".
4. SECONDARY ESCAPEWAY TO WASTE SHAFT STATION THROUGH BULKHEAD 74-B-308.
5. MINE PHONES IN THE CONSTRUCTION AREA ARE MOVED AS NEEDED TO SERVICE THE ACTIVE WORK LOCATIONS.
6. EACH NON-BARRICADED ROOM IN THE ACTIVE WASTE PANEL HAS A MINE PHONE, ON A SKID, AT THE ENTRY TO THE ROOM.

150' 0 150' 300'

SCALE: 1"=150'

PANEL 8
NOTE 5

PANEL 7
NOTE 6

PANEL 6
NOTE 6

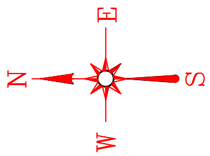
4/16/14 RE-ENTRY DATA

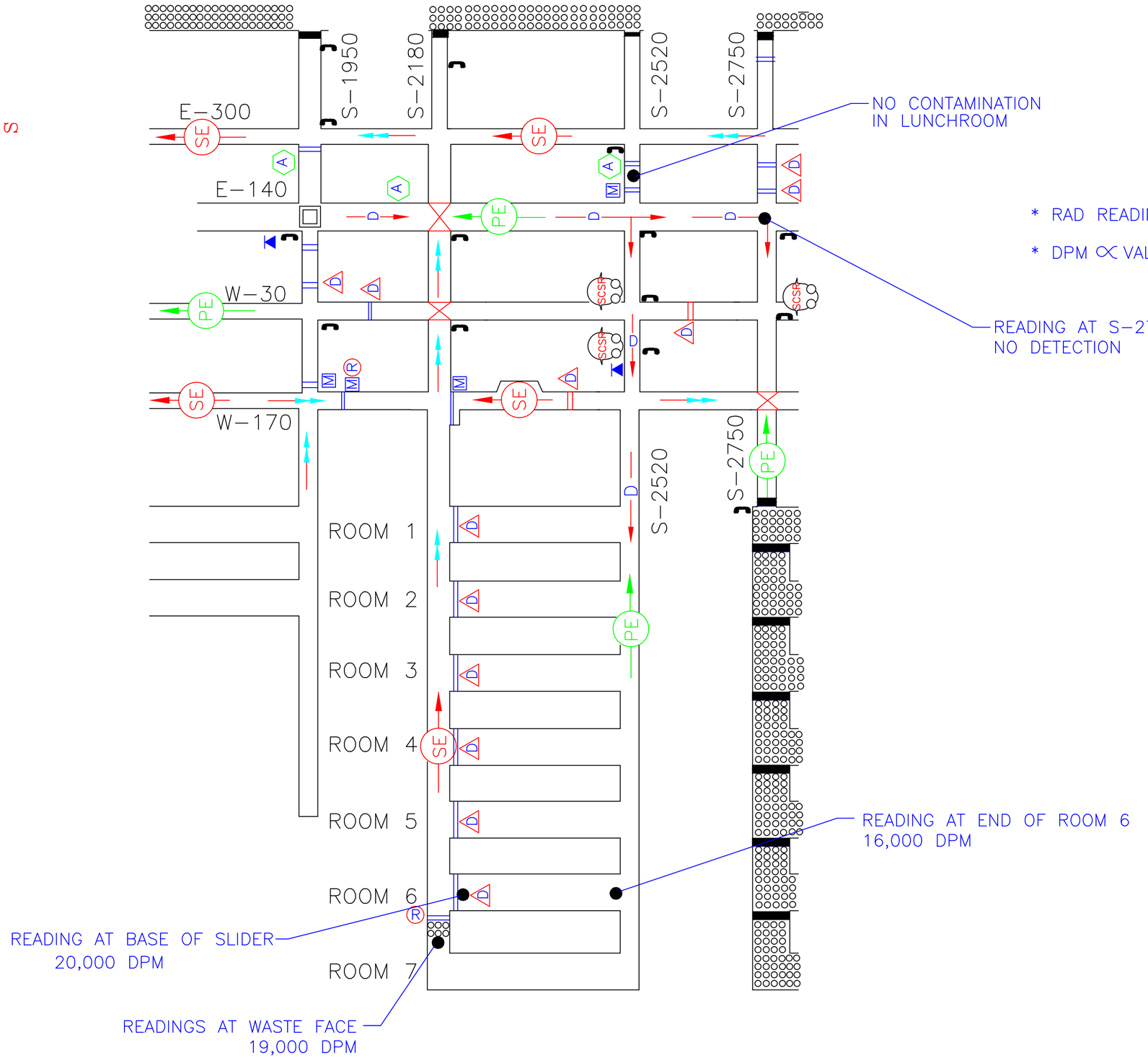
WASTE ISOLATION PILOT PLANT
CARLSBAD, NEW MEXICO

PARTIAL UNDERGROUND MAP

FILE: RAD014051

FOR INFORMATION ONLY





* RAD READINGS ARE BY SWIPE AND DIRECT SCAN

* DPM ∝ VALUES ARE AT 100 CM2

PANEL 8
NOTE 5

PANEL 7
NOTE 6

PANEL 6
NOTE 6

150' 0 150' 300'

SCALE: 1"=150'

LEGEND

- INTAKE SUPPLY AIR
- RETURN AIR
- WASTE HANDLING CIRCUIT
- NORTH AREA CIRCUIT
- CONSTRUCTION CIRCUIT
- DISPOSAL CIRCUIT
- BARRICADE
- BULKHEAD
- NORMALLY OPEN
- MINE PHONE
- TELEPHONE
- UNPASSABLE BULKHEAD (PROHIBITED AREA)
- EMERGENCY BARRICADED AREA
- ASSEMBLY AREA
- TEMPORARY BULKHEAD
- BACKFILLED AREA
- REGULATOR
- BULKHEAD W/MANDOOR AIRLOCK
- MANDOOR
- VEHICLE DOOR W/MAN DOOR (TWO DOORS FORM AN AIRLOCK)
- FIRE DOOR
- PRIMARY ESCAPEWAY
- SECONDARY ESCAPEWAY
- CRIBSET
- VERTICAL SHAFT
- OVERCAST
- EXISTING EXCAVATION
- CHAINLINK & BRATTICE BARRIER
- WASTE DRUMS
- CHECK CURTAIN
- (SCSR) SELF CONTAINED SELF RESCUER CACHE (MARKED BY STROBE LIGHTS)

NOTES

1. DRIFT WIDTHS NOT TO SCALE, ENLARGED 2X FOR CLARITY.
2. EXISTING EXCAVATION REFLECTS STATUS AS OF 1/20/14.
3. ALL DESIGNATED ASSEMBLY AREAS ARE EQUIPPED WITH A DIAL PHONE PAGER PHONE, AND MINER'S AID STATION. EXTENSION NUMBERS FOR DIAL PHONES ARE PROVIDED UNDER HEADING "LOCATION OF ASSEMBLY AREAS".
4. SECONDARY ESCAPEWAY TO WASTE SHAFT STATION THROUGH BULKHEAD 74-B-308.
5. MINE PHONES IN THE CONSTRUCTION AREA ARE MOVED AS NEEDED TO SERVICE THE ACTIVE WORK LOCATIONS.
6. EACH NON-BARRICADED ROOM IN THE ACTIVE WASTE PANEL HAS A MINE PHONE, ON A SKID, AT THE ENTRY TO THE ROOM.

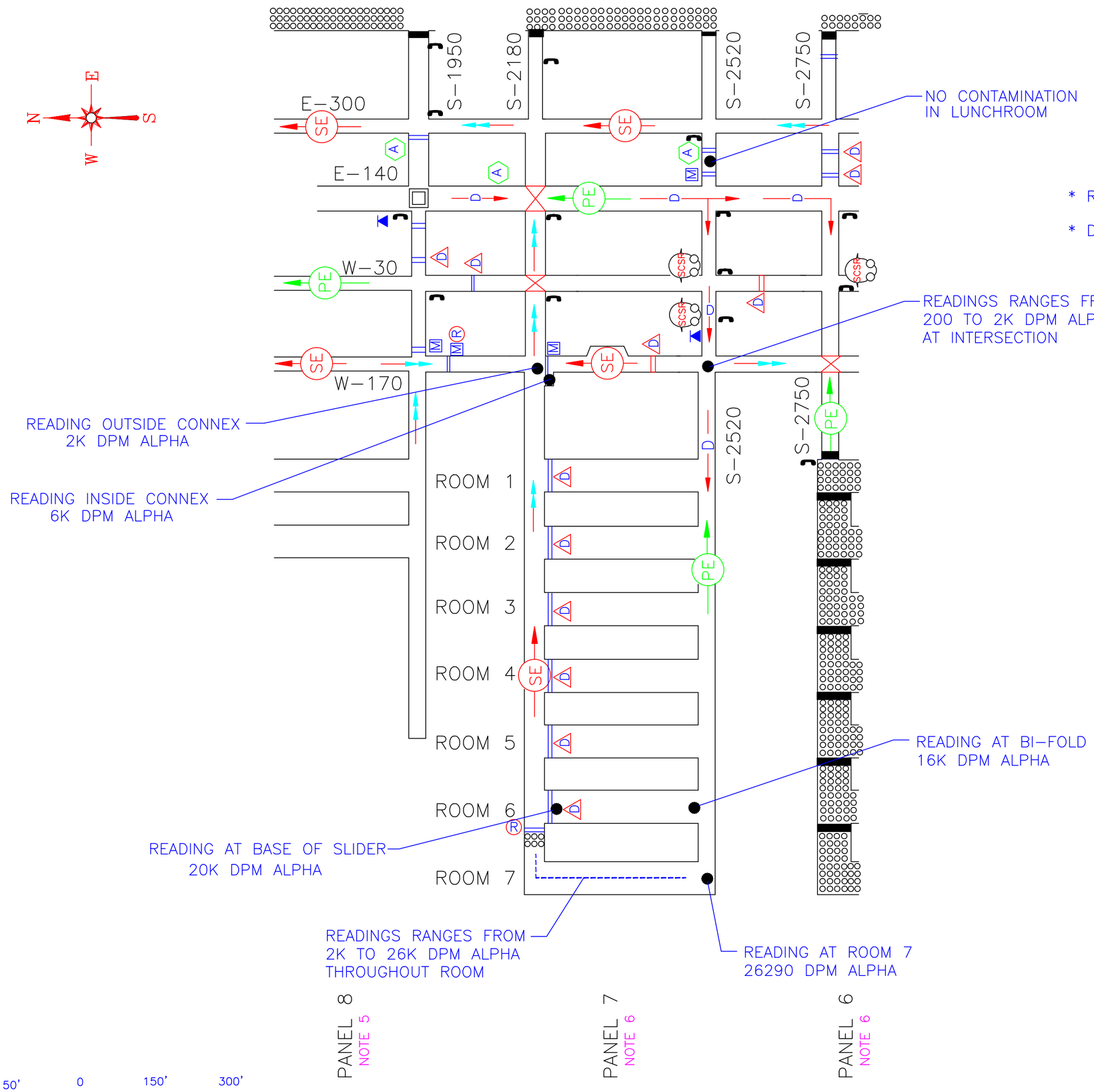
4/23/14 RE-ENTRY DATA

WASTE ISOLATION PILOT PLANT
CARLSBAD, NEW MEXICO

PARTIAL UNDERGROUND MAP

FILE: RAD014039

FOR INFORMATION ONLY



* RAD READINGS ARE BY SWIPE AND DIRECT SCAN

* DPM ∝ VALUES ARE AT 100 CM2

LEGEND

- INTAKE SUPPLY AIR
- RETURN AIR
- WASTE HANDLING CIRCUIT
- NORTH AREA CIRCUIT
- CONSTRUCTION CIRCUIT
- DISPOSAL CIRCUIT
- BARRICADE
- BULKHEAD
- NORMALLY OPEN
- MINE PHONE
- TELEPHONE
- UNPASSABLE BULKHEAD (PROHIBITED AREA)
- EMERGENCY BARRICADED AREA
- ASSEMBLY AREA
- TEMPORARY BULKHEAD
- BACKFILLED AREA
- REGULATOR
- BULKHEAD W/MANDOOR AIRLOCK
- MANDOOR
- VEHICLE DOOR W/MAN DOOR (TWO DOORS FORM AN AIRLOCK)
- FIRE DOOR
- PRIMARY ESCAPEWAY
- SECONDARY ESCAPEWAY
- CRIBSET
- VERTICAL SHAFT
- OVERCAST
- EXISTING EXCAVATION
- CHAINLINK & BRATTICE BARRIER
- WASTE DRUMS
- CHECK CURTAIN
- (SCSR) SELF CONTAINED SELF RESCUER CACHE (MARKED BY STROBE LIGHTS)

NOTES

1. DRIFT WIDTHS NOT TO SCALE, ENLARGED 2X FOR CLARITY.
2. EXISTING EXCAVATION REFLECTS STATUS AS OF 1/20/14.
3. ALL DESIGNATED ASSEMBLY AREAS ARE EQUIPPED WITH A DIAL PHONE PAGER PHONE, AND MINER'S AID STATION. EXTENSION NUMBERS FOR DIAL PHONES ARE PROVIDED UNDER HEADING "LOCATION OF ASSEMBLY AREAS".
4. SECONDARY ESCAPEWAY TO WASTE SHAFT STATION THROUGH BULKHEAD 74-B-308.
5. MINE PHONES IN THE CONSTRUCTION AREA ARE MOVED AS NEEDED TO SERVICE THE ACTIVE WORK LOCATIONS.
6. EACH NON-BARRICADED ROOM IN THE ACTIVE WASTE PANEL HAS A MINE PHONE, ON A SKID, AT THE ENTRY TO THE ROOM.

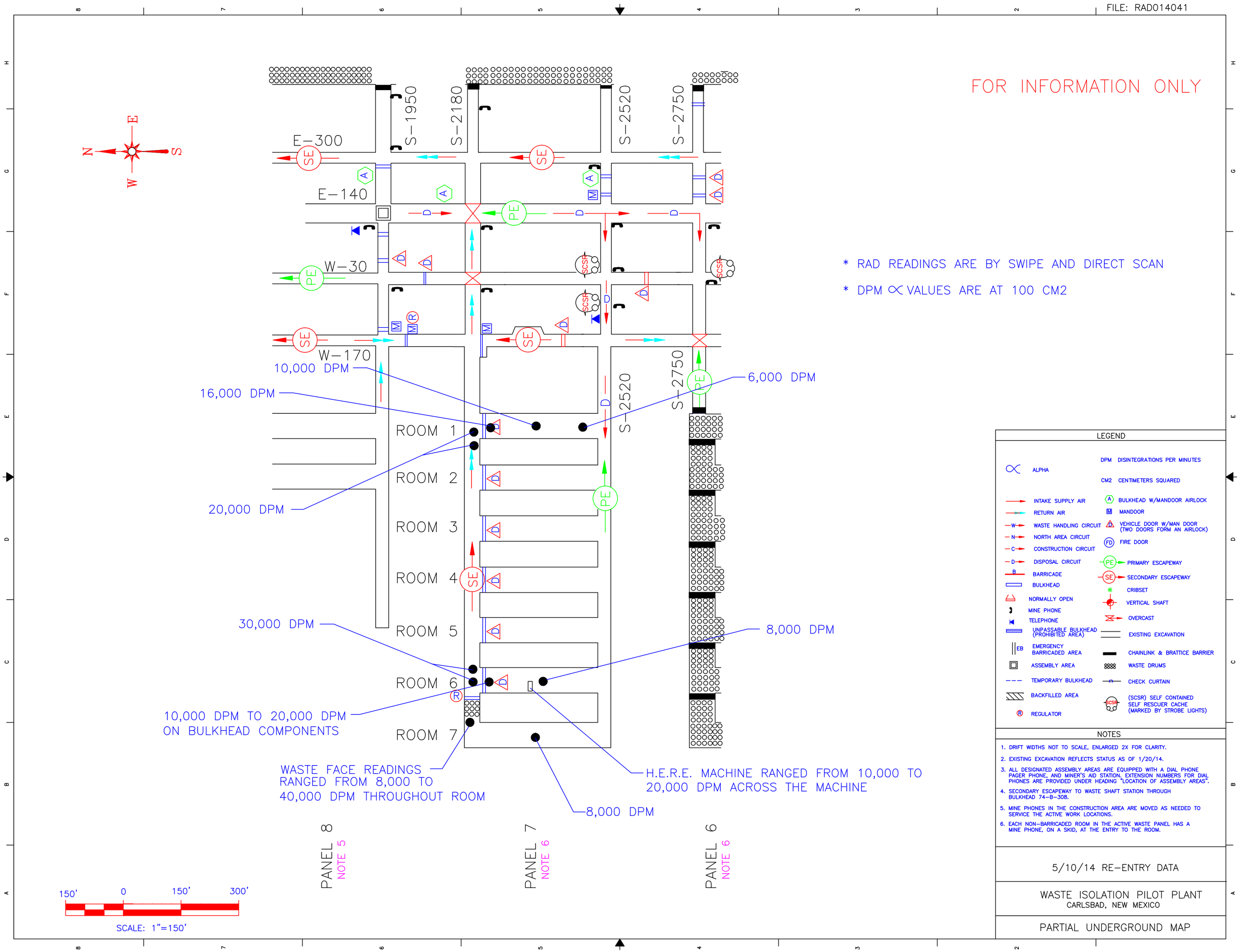
4/30/14 RE-ENTRY DATA

WASTE ISOLATION PILOT PLANT
CARLSBAD, NEW MEXICO

PARTIAL UNDERGROUND MAP

FILE: RAD014041

FOR INFORMATION ONLY



* RAD READINGS ARE BY SWIPE AND DIRECT SCAN

* DPM ∝ VALUES ARE AT 100 CM2

LEGEND

- ∝ ALPHA
- DPM DISINTEGRATIONS PER MINUTES
- CM2 CENTIMETERS SQUARED
- INTAKE SUPPLY AIR
- RETURN AIR
- W WASTE HANDLING CIRCUIT
- N NORTH AREA CIRCUIT
- C CONSTRUCTION CIRCUIT
- D DISPOSAL CIRCUIT
- B BARRICADE
- BULKHEAD
- NORMALLY OPEN
- MINE PHONE
- TELEPHONE
- UNPASSABLE BULKHEAD (PROHIBITED AREA)
- EB EMERGENCY BARRICADED AREA
- ASSEMBLY AREA
- TEMPORARY BULKHEAD
- BACKFILLED AREA
- R REGULATOR
- A BULKHEAD W/MANDOOR AIRLOCK
- M MANDOOR
- D VEHICLE DOOR W/MAN DOOR (TWO DOORS FORM AN AIRLOCK)
- FD FIRE DOOR
- PE PRIMARY ESCAPEWAY
- SE SECONDARY ESCAPEWAY
- CRIBSET
- VERTICAL SHAFT
- OVERCAST
- EXISTING EXCAVATION
- CHAINLINK & BRATTICE BARRIER
- WASTE DRUMS
- CHECK CURTAIN
- SCSR (SCSR) SELF CONTAINED SELF RESCUER CACHE (MARKED BY STROBE LIGHTS)

NOTES

1. DRIFT WIDTHS NOT TO SCALE, ENLARGED 2X FOR CLARITY.
2. EXISTING EXCAVATION REFLECTS STATUS AS OF 1/20/14.
3. ALL DESIGNATED ASSEMBLY AREAS ARE EQUIPPED WITH A DIAL PHONE PAGER PHONE, AND MINER'S AID STATION. EXTENSION NUMBERS FOR DIAL PHONES ARE PROVIDED UNDER HEADING "LOCATION OF ASSEMBLY AREAS".
4. SECONDARY ESCAPEWAY TO WASTE SHAFT STATION THROUGH BULKHEAD 74-B-308.
5. MINE PHONES IN THE CONSTRUCTION AREA ARE MOVED AS NEEDED TO SERVICE THE ACTIVE WORK LOCATIONS.
6. EACH NON-BARRICADED ROOM IN THE ACTIVE WASTE PANEL HAS A MINE PHONE, ON A SKID, AT THE ENTRY TO THE ROOM.

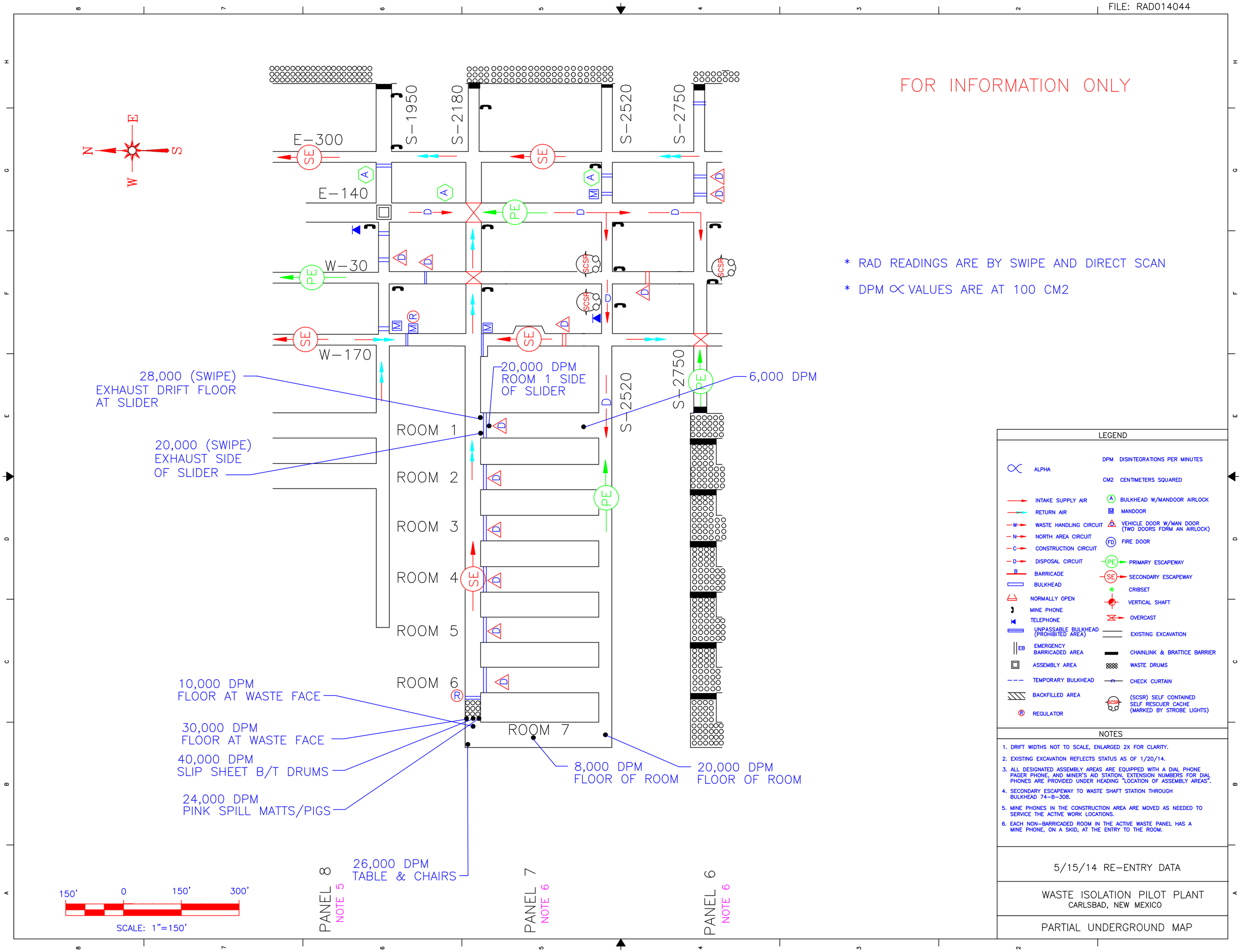
5/10/14 RE-ENTRY DATA

WASTE ISOLATION PILOT PLANT
CARLSBAD, NEW MEXICO

PARTIAL UNDERGROUND MAP

FILE: RAD014044

FOR INFORMATION ONLY



* RAD READINGS ARE BY SWIPE AND DIRECT SCAN

* DPM ∝ VALUES ARE AT 100 CM2

LEGEND

- ∝ ALPHA
- DPM DISINTEGRATIONS PER MINUTES
- CM2 CENTIMETERS SQUARED
- INTAKE SUPPLY AIR
- RETURN AIR
- W WASTE HANDLING CIRCUIT
- N NORTH AREA CIRCUIT
- C CONSTRUCTION CIRCUIT
- D DISPOSAL CIRCUIT
- B BARRICADE
- BULKHEAD
- NORMALLY OPEN
- MINE PHONE
- TELEPHONE
- UNPASSABLE BULKHEAD (PROHIBITED AREA)
- EB EMERGENCY BARRICADED AREA
- ASSEMBLY AREA
- TEMPORARY BULKHEAD
- BACKFILLED AREA
- R REGULATOR
- A BULKHEAD W/MANDOOR AIRLOCK
- M MANDOOR
- D VEHICLE DOOR W/MAN DOOR (TWO DOORS FORM AN AIRLOCK)
- FD FIRE DOOR
- PE PRIMARY ESCAPEWAY
- SE SECONDARY ESCAPEWAY
- CRIBSET
- VERTICAL SHAFT
- OVERCAST
- EXISTING EXCAVATION
- CHAINLINK & BRATTICE BARRIER
- WASTE DRUMS
- CHECK CURTAIN
- SCSR (SCSR) SELF CONTAINED SELF RESCUER CACHE (MARKED BY STROBE LIGHTS)

NOTES

1. DRIFT WIDTHS NOT TO SCALE, ENLARGED 2X FOR CLARITY.
2. EXISTING EXCAVATION REFLECTS STATUS AS OF 1/20/14.
3. ALL DESIGNATED ASSEMBLY AREAS ARE EQUIPPED WITH A DIAL PHONE PAGER PHONE, AND MINER'S AID STATION. EXTENSION NUMBERS FOR DIAL PHONES ARE PROVIDED UNDER HEADING "LOCATION OF ASSEMBLY AREAS".
4. SECONDARY ESCAPEWAY TO WASTE SHAFT STATION THROUGH BULKHEAD 74-B-308.
5. MINE PHONES IN THE CONSTRUCTION AREA ARE MOVED AS NEEDED TO SERVICE THE ACTIVE WORK LOCATIONS.
6. EACH NON-BARRICADED ROOM IN THE ACTIVE WASTE PANEL HAS A MINE PHONE, ON A SKID, AT THE ENTRY TO THE ROOM.

5/15/14 RE-ENTRY DATA

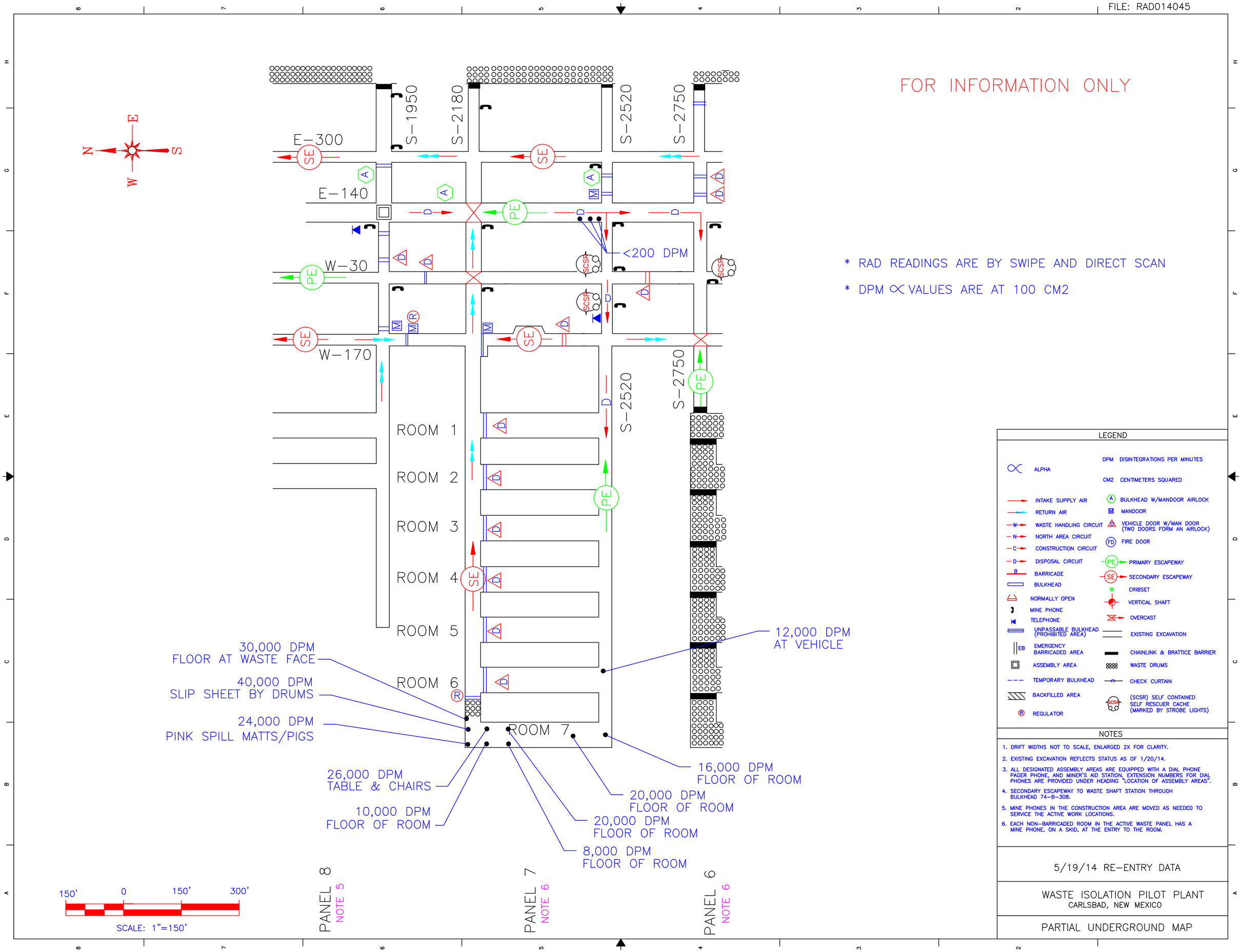
WASTE ISOLATION PILOT PLANT
CARLSBAD, NEW MEXICO

PARTIAL UNDERGROUND MAP

FILE: RAD014045

FOR INFORMATION ONLY

* RAD READINGS ARE BY SWIPE AND DIRECT SCAN
* DPM ∝ VALUES ARE AT 100 CM2



LEGEND

- ∝ ALPHA
- DPM DISINTEGRATIONS PER MINUTES
- CM2 CENTIMETERS SQUARED
- INTAKE SUPPLY AIR
- RETURN AIR
- W WASTE HANDLING CIRCUIT
- N NORTH AREA CIRCUIT
- C CONSTRUCTION CIRCUIT
- D DISPOSAL CIRCUIT
- B BARRICADE
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- OVERCAST
- EXISTING EXCAVATION
- CHAINLINK & BRATTICE BARRIER
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- CHECK CURTAIN
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NOTES

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6. EACH NON-BARRICADED ROOM IN THE ACTIVE WASTE PANEL HAS A MINE PHONE, ON A SKID, AT THE ENTRY TO THE ROOM.

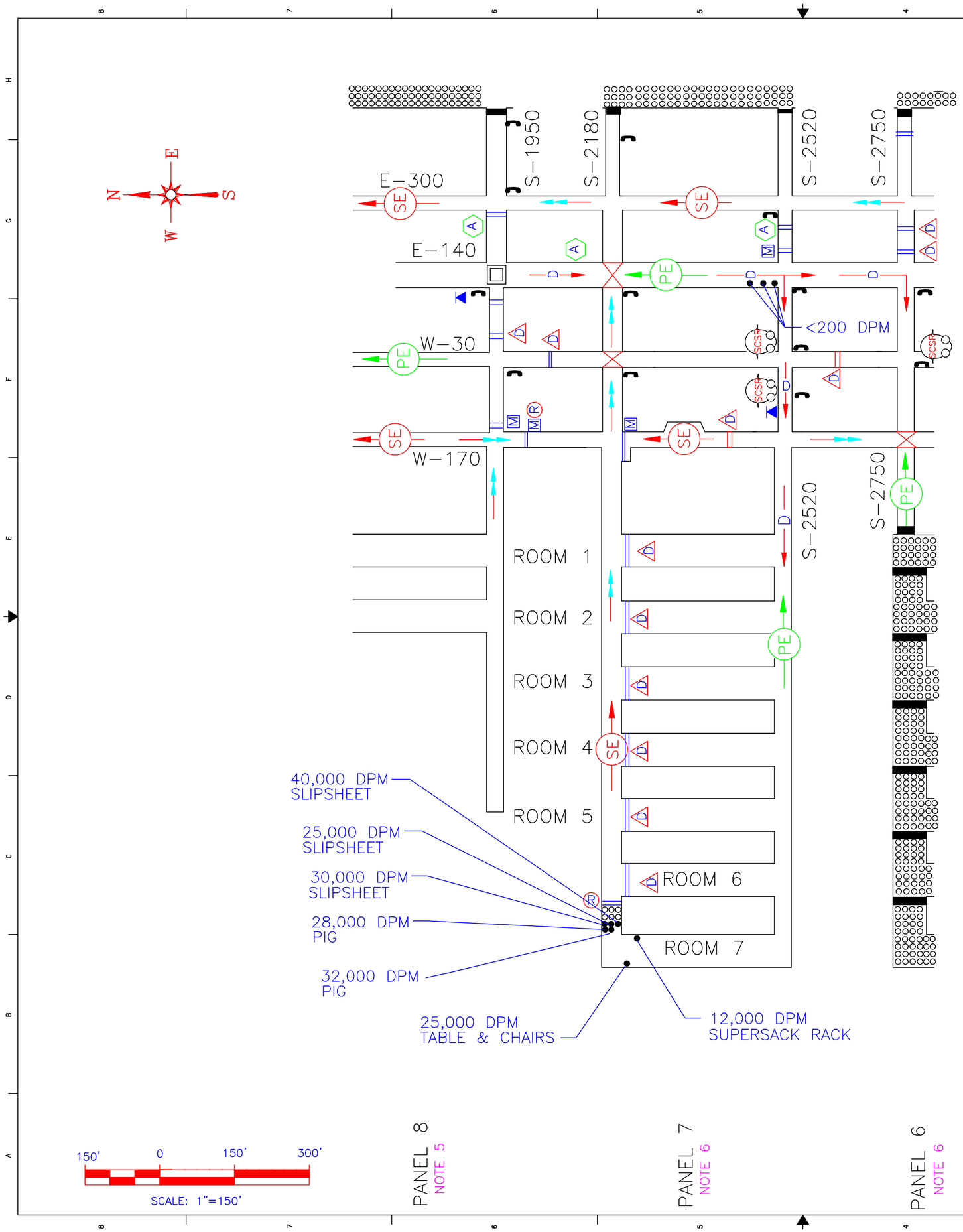
5/19/14 RE-ENTRY DATA

WASTE ISOLATION PILOT PLANT
CARLSBAD, NEW MEXICO

PARTIAL UNDERGROUND MAP

FILE: RAD014047

FOR INFORMATION ONLY



* RAD READINGS ARE BY SWIPE AND DIRECT SCAN
* DPM ∝ VALUES ARE AT 100 CM2

LEGEND

- ∝ ALPHA
- DPM DISINTEGRATIONS PER MINUTES
- CM2 CENTIMETERS SQUARED
- INTAKE SUPPLY AIR
- RETURN AIR
- W WASTE HANDLING CIRCUIT
- N NORTH AREA CIRCUIT
- C CONSTRUCTION CIRCUIT
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- OVERCAST
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NOTES

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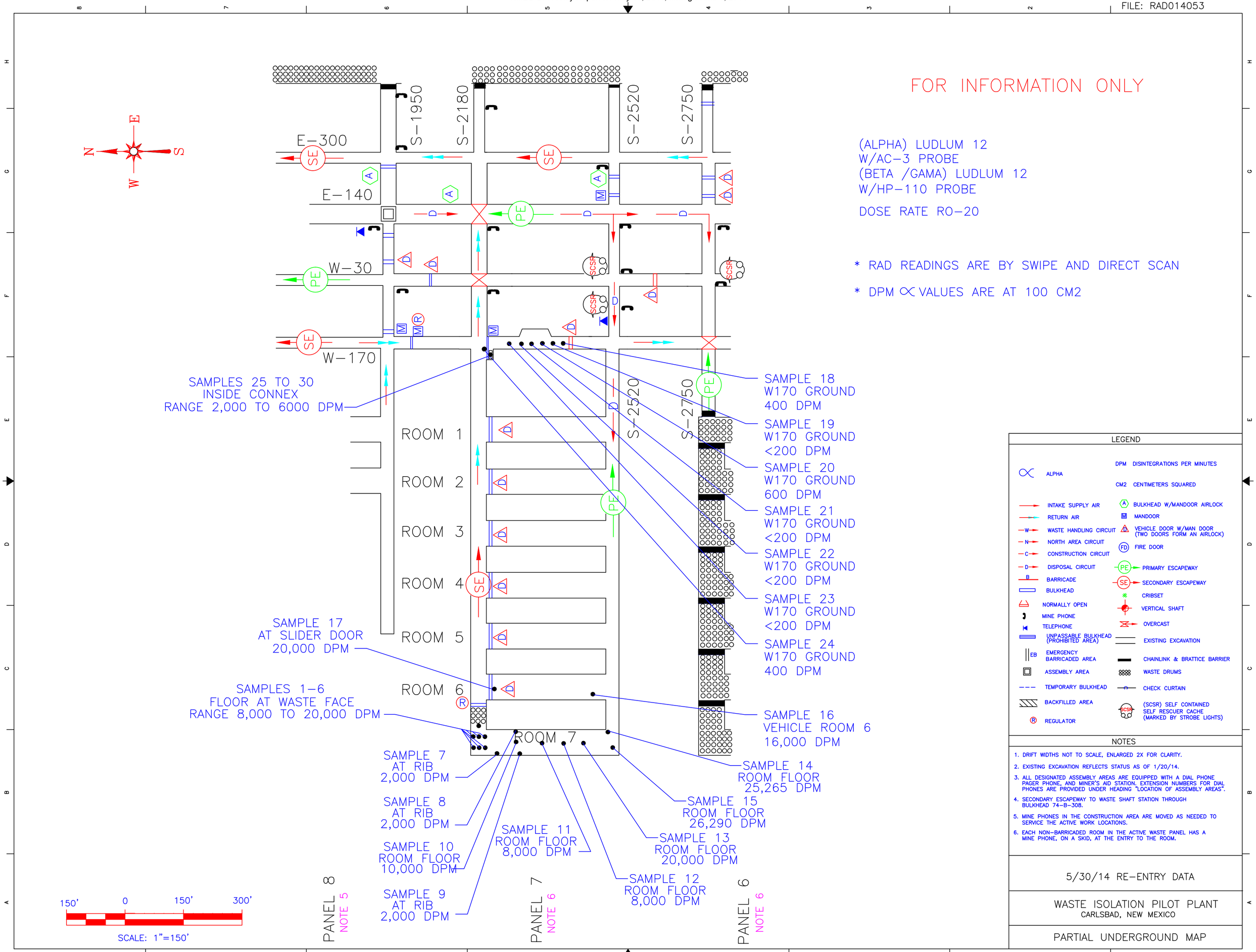
5/22/14 RE-ENTRY DATA

WASTE ISOLATION PILOT PLANT
CARLSBAD, NEW MEXICO

PARTIAL UNDERGROUND MAP

FILE: RAD014053



Attachment 12
Panel 7 Recovery-Related Work (reserved)