

121st WIPP QUARTERLY
January 24, 2013



NMED Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1, Santa Fe, New Mexico 87505

AGENDA

10:00	Welcome and Introductions	Trais Kliphuis
10:10	NMED Hazardous Waste Bureau Update	Ricardo Maestas
10:30	NMED DOE Oversight Bureau	Thomas Skibitski
10:50	Governor's Task Force Update	Jodi McGinnis Porter
11:10	New Mexico State Police Update [CCNS would appreciate a discussion about the decision making process to eliminate the monitoring of WIPP shipments by the State Police including how the decision was made and by whom. They would also like to know if the annual DOE grant to the State of New Mexico has changed and are asking for information about the funding levels for the past five years.]	Deputy Chief Pete Kassetas
11:30	DOE CBFO WIPP Status Update	George Basabilvazo
11:50	Lunch	
1:10	DOE CBFO WIPP responses to questions: 1. Any progress concerning funding stipends for the Mora Volunteer Fire Department so that some of the volunteers could participate in some basic training concerning radioactive waste transportation?	George Basabilvazo
2:00ish	Action Items, Scheduling of Next Meeting, and Adjourn	Trais Kliphuis

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WIPP Quarterly Meeting Sign-In Sheet

Signature	Name	Organization	E-mail address	Phone #	Corrections
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<i>Ricardo Maestas</i>	Ricardo Maestas	NMED/HWB	ricardo.maestas@state.nm.us	505-476-6050	



**New Mexico Environment Department
Hazardous Waste Bureau
WIPP Group**

121ST WIPP QUARTERLY MEETING

Santa Fe, New Mexico
January 24, 2013

Permit Activities

- Class 1 Permit Modification
 - December 12, 2012 - Contingency Plan Update (Attachment D)
- Class 2 Permit Modification
 - November 1, 2012 - Final Determination, Addition of Shielded Container, Approved with Changes
 - December 12, 2012 - Revise Waste Analysis Plan Waste Characterization Methods

Public comment period ongoing, ends 5pm Monday, Feb. 18th

- Class 3 Permit Modification
 - One draft with three items
 - WIPP Panel Closure Modification
 - Repository Reconfiguration
 - VOC Monitoring Program Changes

Pre-submittal meeting was held December 18, 2012

Audit and Surveillance Activities

Completed:

- November 6-8, 2012 - SRS/CCP Recertification Audit

Upcoming:

- January 24, 2013 - Surveillance of INL/CCP VE of Homogenous Solids Waste
- March 12-14, 2013 - Annual NWP Waste Handling Audit
- Audit To Be Determined- March, ORNL/CCP

Audit Reports

- Hanford/CCP A-12-11
 - Under review
- Los Alamos (LANL)/CCP A-12-12
 - Under review
- Idaho National Lab (INL)/CCP Analytical Lab A-12-14
 - Under review
- Argonne National Lab (ANL)/CCP A-12-16
 - Under review

Notifications

- October 16, 2012 - Sampling Line Loss Panel 3 Room 6
- October 29, 2012 - Results of Evaluation of above sampling line loss
 - No impact on monitoring

Other Activities

- NMED WIPP Annual Inspection, November 13-14, 2012
- NMED observed EPA Stakeholder meeting, December 6, 2012
- Dave Cobrain named new Permits Management Program Manager, December 12, 2012
- Class 3 PMR Pre-submittal Meeting, December 18, 2012
- Tom Skibitski named Acting Division Director, Resources Protection Division, January 1, 2013
- WIPP Underground tour, January 8, 2013
- Public Meetings on Class 2 Waste Characterization PMR
 - January 15, 2013 in Carlsbad
 - January 17, 2013 in Santa Fe

**State of New Mexico
Radioactive Waste Consultation Task Force
Update**

**121 WIPP Quarterly Meeting
January 24, 2013**

**Jodi McGinnis Porter
New Mexico Energy, Minerals and Natural Resources
Santa Fe, New Mexico 87505
(505) 476-3226
Jodi.Porter@state.nm.us**

*“The Safe and
Uneventful
Transportation of
Radioactive Waste in
New Mexico
Headed Toward the
Waste Isolation Pilot
Plant”*

- ◆ Jodi McGinnis Porter, Energy, Minerals and Natural Resources Department
- ◆ Tim Yackey, Department of Health
- ◆ Geno Trujillo, State Police
- ◆ Roseanne Madrid, Motor Transportation Police
- ◆ Bobby Lopez, Environment Department
- ◆ Dolores Baca, PRC-State Fire Marshall Office
- ◆ Don Shainin, Homeland Security

- ◆ Western Interstate Energy Board's High Level Waste Committee (October 10-11)
- ◆ National Transportation Safety Forum webinar
- ◆ Increased fiscal oversight of the WIPP Grant
- ◆ Santa Fe Radioactive & Hazardous Materials Legislative Committee
 - ◆ State Fire Marshall, John Standefer presented on requests for training along the WIPP route and other areas of the state.
- ◆ Albuquerque Balloon Fiesta
 - ◆ Preventative Radiological Nuclear Detection

	FY09	FY10	FY11	FY12	FY13
PS&EB	131,431	137,346	137,346	137,350	132,788
Other	17,035	27,640	26,166	25,166	29,920
Pass Thru	1,277,077	1,426,525	1,394,677	1,375,374	1,152,319
Indirect	32,653	29,474	18,281	28,624	29,213
	1,458,196	1,620,985	1,576,470	1,566,514	1,344,240

**Information: According to the SHARE Project Level Budget.*

Council of State Government's Midwestern
Radioactive Materials Transportation
Committee conference – Omaha, Nebraska
Ms. Anne Clark officially retires.

Transcom Training

Background of the Implementation of
Section 180(c) of the Nuclear Waste Policy
Act (NWPAA).

EMRND supports State Police
Department's decision to stop monitoring
WIPP shipments 24/7.



U.S. DEPARTMENT OF
ENERGY



121st WIPP Quarterly

Santa Fe, New Mexico
January 24, 2013



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Occurrence Reports

- The RH-TRU swipe delivery table unexpectedly activated while during a maintenance activity
- A Root Cause Analysis is being performed



EM Environmental Management

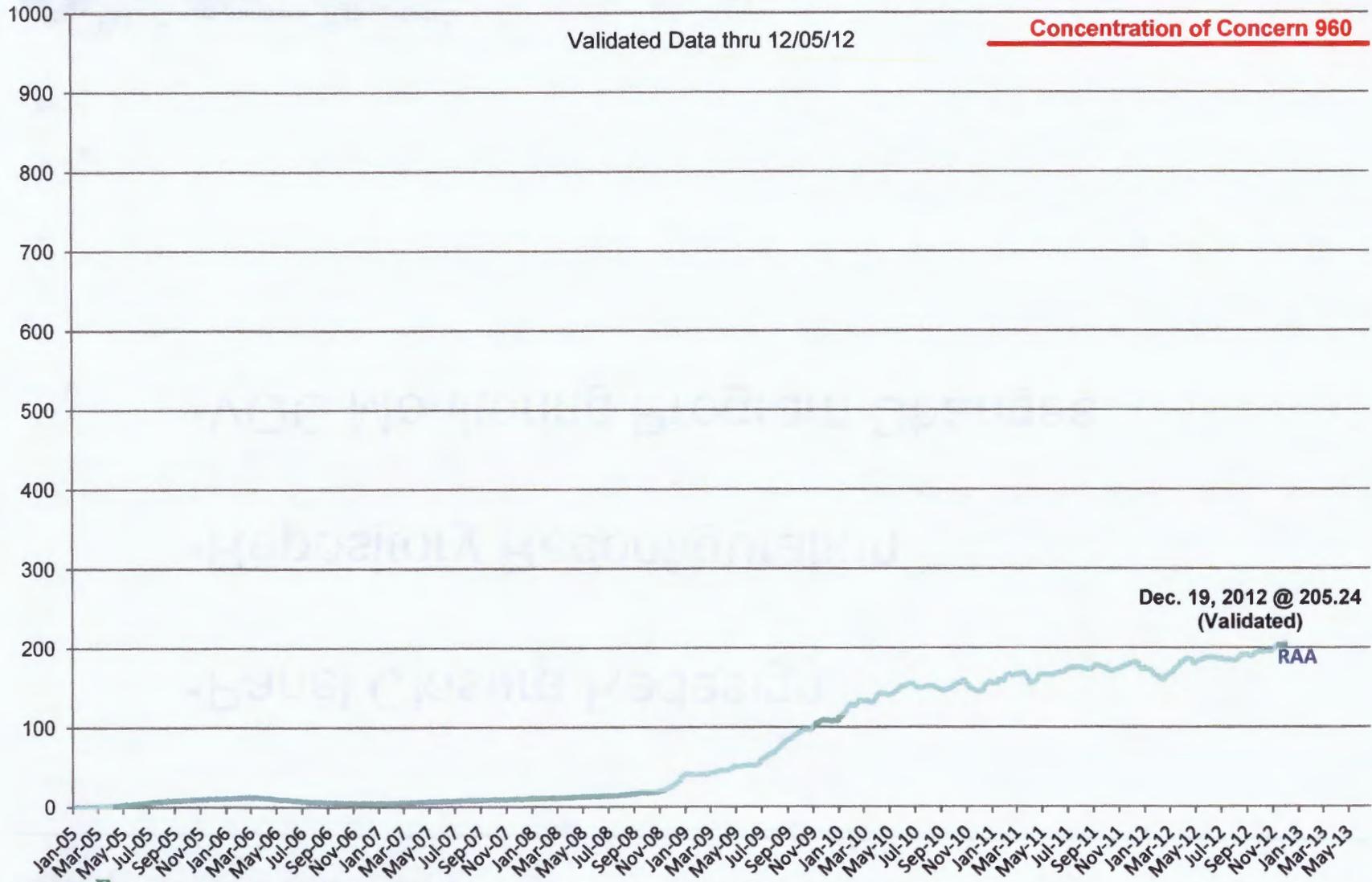
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Future Permit Modification Requests

- Panel Closure Redesign
- Repository Reconfiguration
- VOC Monitoring Program Changes

Running Annual Average (RAA) for Carbon Tetrachloride (ppbv)

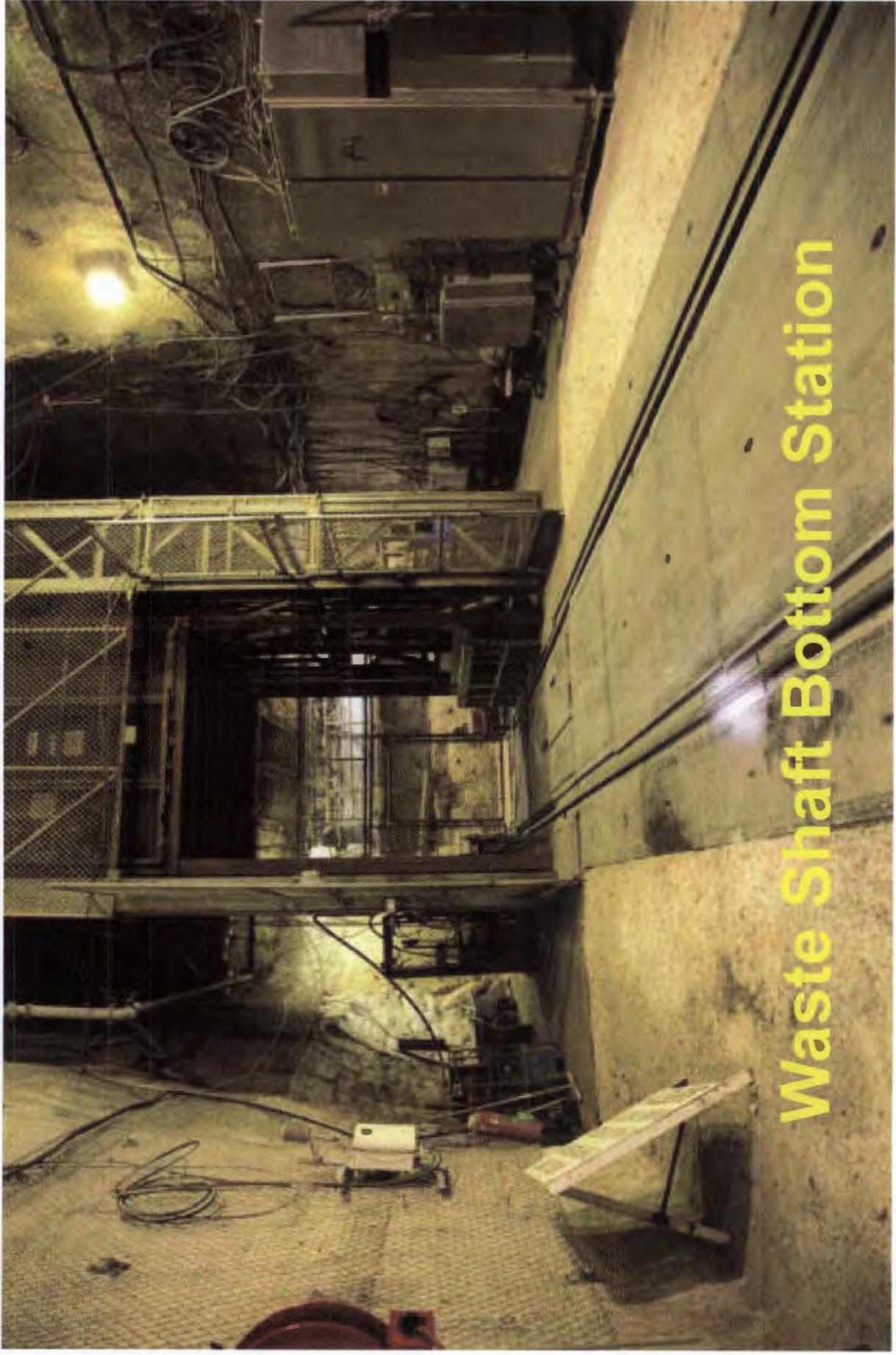


Waste Emplacement and Mining Status

- CH TRU waste emplacement completed in Room 4 of Panel 6
- CH TRU waste is being emplaced in Room 3 of Panel 6
- RH TRU waste is being emplaced in Room 2 of Panel 6
- Panel 7 outfitting scheduled to be complete by March 31, 2013
- Panel 7 certification tentatively planned by May 2013

Salt Disposal Investigations

- Mining
 - Mining Start Date December 1, 2011
 - Projected Mining end date February 15, 2013
 - Currently mining SDI Phase I access drifts (about 87% complete)
 - Projected Mining start date for SDI Phase II is February 16, 2013



Waste Shaft Bottom Station

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2013 Winter Outage Projects

Surface Projects

- CH Bay: Light Replacement/Dock Mat Replacements/Crane Repair/Floor Coating and Striping
- Fire Suppression System: Cranes Clearance/Obstruction Flow Testing

Underground Projects

- Waste Shaft Station Rail and Steel Realignment
- Mining: SDI/S-90 Floor/Maintenance Shop Floor/E-140 Transport Route Floor
- E-300 Exhaust Drift Wire Mesh Installation



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Shipments Received

CH Shipments Received at the WIPP facility through 12/31/12:

Fiscal Year	ANL-E	BAPL	Hanford	INL	LANL	ORNL	SNL/NM	SRS	VNC	Total
2010			52	669	157	36		82		996
2011			88	555	172	9		115		939
2012				359	230	7		157		753
2013				90	37			67		194

RH Shipments Received at the WIPP facility through 12/31/12:

Fiscal Year	ANL-E	BAPL	Hanford	INL	LANL	ORNL	SNL/NM	SRS	VNC	Total
2010	22			32		52			26	132
2011	47	5		29		8		12		101
2012	39			29		5	8	3		84
2013	8			18						26



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Volume Emplaced

(Permit Disposal Container Volumes)

CH Volume Emplaced at the WIPP facility through 12/31/12: (cubic meters):

Fiscal Year	ANL-E	BAPL	Hanford	INL	LANL	ORNL	SNL/NM	SRS	VNC	Total
2010			475.24	5,113.84	1,062.64	229.93		862.32		7,743.97
2011			824.98	4,210.55	1,013.74	78.75		1,138.72		7,266.74
2012				2,619.99	1,513.58	57.33		1,469.35		5,660.25
2013				514.65	325.72			564.53		1404.9

RH Volume Emplaced at the WIPP through facility 12/31/12: (cubic meters):

Fiscal Year	ANL-E	BAPL	Hanford	INL	LANL	ORNL	SNL/NM	SRS	VNC	Total
2010	17.80			27.59		46.28			27.59	119.26
2011	43.61	2.67		26.70		7.12		10.68		90.78
2012	32.93	1.78		21.36		4.45	7.12	2.67		70.31
2013	8.01			16.91						24.92

WIPP Accomplishments

October 1st through December 31st

- Four projects at WIPP honored with 2012 DOE Sustainability Awards
 - Asphalt Recycling Project
 - Green Catalogue Project
 - Procurement Card and Purchase Requisition Improvement Project
 - Metals Recycling Project
- WIPP receives 11,000th shipment on November 20th
- WIPP employees among Energy Secretary's honorees for nuclear footprint reduction at Argonne National Laboratory



New Mexico Environment Department DOE Oversight Bureau

**121st WIPP Quarterly Report
October 1, 2012 to December 31, 2012**



**Environmental Oversight and Monitoring
At Department of Energy Facilities in New Mexico**

Cover Photograph

Waste is handled in the underground at the Waste Isolation Pilot Plant, located 26 southeast of Carlsbad, New Mexico.

Photograph by Thomas Kesterson.



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LIST OF ACRONYMS

AIP	Agreement-In-Principle
AIRNET	Air Radioactive Particulate and Tritium Monitoring Network
AOC	Area of Concern
AQB	Air Quality Bureau, New Mexico Environment Department
BMP	Best Management Practices
BSL-3	Bio-Safety Lab, Level Three
CBFO	Carlsbad Field Office, DOE - WIPP Site Office
CCNS	Concerned Citizens for Nuclear Safety
CDC	Centers for Disease Control and Prevention
CEMRC	Carlsbad Environmental Monitoring and Research Center, Waste Isolation Pilot Plant
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980 (also known as "Superfund")
CH Waste	Contact Handled Waste (Waste Isolation Pilot Plant)
COOC	Compliance Order on Consent
CRMG	Community Radiation Monitoring Group
CTAC	Carlsbad Technical Advisory Contractor
CWA	Clean Water Act
CY	Calendar Year
D & D	Decommissioning and Demolition
DDT	DichloroDiphenylTrichloroethane
DFA	(New Mexico) Department of Finance and Administration
DOE	U.S. Department of Energy
DOE/NNSA	U.S. Department of Energy National Nuclear Security Administration, operators of the LASO, SSO and WSO
DOE OB	DOE Oversight Bureau, New Mexico Environment Department
DRO	Diesel Range Organics
DPR	Direct Penetrating Radiation
EA	Environmental Assessment
ECOS	Environmental Council of the States
EMIG	Effluent Monitoring Improvement Group, Waste Isolation Pilot Plant
EIM	Environmental Information Management, the Los Alamos National Laboratory cloud-based environmental database
EIS	Environmental Impact Statement
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration
FFCA	Federal Facility Compliance Act
FFY	Federal Fiscal Year
GAP	Government Accountability Project
GIS	Geographic Information System
GNPE PEIS	Global Nuclear Energy Partnership Programmatic Environmental Impact Statement
GPS	Global Positioning System

GRO	Gasoline Range Organics
GTCC LLW	Greater-Than-Class C Low-Level (Radioactive) Waste
GWQB	Ground Water Quality Bureau, New Mexico Environment Department
HEPA	High Efficiency Particulate Air
HWB	Hazardous Waste Bureau, New Mexico Environment Department
IEER	Institute for Energy and Environmental Research
Intellus	Intellus New Mexico, the public interface of the Los Alamos National Laboratory cloud-based environmental database Environmental Information Management
IWD	Integrated Work Document
LASO	Los Alamos Site Office, U.S. Department of Energy
LC/MS/MS	Liquid Chromatography/Mass Spectrometry/MS (Tandem MS)
LOS	Los Alamos Oversight Section, New Mexico Environment Department, DOE OB
LTS	Long-Term Stewardship
LVAS	Low-Volume Air Sampling
MCL	Maximum Contaminant Level, U.S. Environmental Protection Agency
MDA	Material Disposal Area
MDC	Minimum Detectable Concentration
MOA	Memo of Agreement
MS4	Municipal Separate Storm Sewer System
MSHA	Mine Safety and Health Administration
MW	Monitoring Well
NAS	National Academy of Sciences
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants of the Clean Air Act
NGO	Non-Governmental Organization
NMCF	New Mexico Community Foundation
NMDOH	New Mexico Department of Health
NMDOT	New Mexico Department of Transportation
NMED	New Mexico Environment Department
NNMC	Northern New Mexico College
NPDES	National Pollutant Discharge Elimination System
NNSA	National Nuclear Security Administration
NRC	Nuclear Regulatory Commission
NWP	Nuclear Waste Partnership LLC, a URS-led partnership with Babcock & Wilcox Technical Services Group, Inc. with AREVA Federal Services, LLC as a subcontractor, operator of the Waste Isolation Pilot Plant
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PPE	Personal Protective Equipment
PRS	Potential Release Sites
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RH Waste	Remote Handled Waste (Waste Isolation Pilot Plant)
RSRL	Regional Statistical Reference Level
SAP	Sampling and Analysis Plan
SCADA	Supervisory Control and Data Acquisition

SEIS	Supplemental Environmental Impact Statement
SFY	State Fiscal Year
SOS	Sandia Oversight Section, New Mexico Environment Department, DOE OB
SSC	Suspended Sediment Concentration
SSO	Sandia Site Office, U.S. Department of Energy
SWEIS	Site-Wide Environmental Impact Statement
SWMU	Solid Waste Management Unit
SWPPP	Stormwater Pollution Prevention Plan
SWQB	Surface Water Quality Bureau, New Mexico Environment Department
SWWS	Sanitary Waste Water System
SVOC	Semi-Volatile Organic Compound
TA	Technical Area
TAL	Target Analyte List Metals
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TLD	Thermoluminescent Dosimeter
TMD	Total Maximum Daily Load
TPH	Total Petroleum Hydrocarbon
TRU	Transuranic waste, contaminated with radioactive elements that have atomic numbers greater than uranium, including tools, rags, protective clothing, sludge and soil
UNM	University of New Mexico
URS	URS Corporation (originally named United Research Services), the manager and operator, through Nuclear Waste Partnership LLC, of the Waste Isolation Pilot Plant
USAF	U.S. Air Force
USGS	U.S. Geological Survey
VOC	Volatile Organic Compound
WIPP	Waste Isolation Pilot Plant, located southeast of Carlsbad, New Mexico
WLA	WIPP Land Withdrawal Act
WOS	WIPP Oversight Section, New Mexico Environment Department, DOE OB
WQCC	Water Quality Control Commission, New Mexico

WASTE ISOLATION PILOT PLANT OVERSIGHT

GENERAL ADMINISTRATION (WAD70)

Under this Activity ID, the Bureau manages, administers, and finances the overall activities of staff members in the Carlsbad office. Staff provides assistance to the New Mexico Environment Department, the Oversight Bureau and the U.S. Department of Energy by developing workplans, budgets and training requirements and all other functions necessary to support the oversight mission.

Quarterly Summary: During FFY 2013 Q-1, Bureau staff observed facility activities, managed personnel activities, budgeted for monitoring and oversight activities and attended required and optional trainings and classes.

Administration

On October 1, 2012, Nuclear Waste Partnership LLC assumed the five-year operations contract for the Waste Isolation Pilot Plant (WIPP). Nuclear Waste Partnership LLC is limited liability partnership led by URS Corporation with Babcock & Wilcox Technical Services Group, Inc. with AREVA Federal Services, LLC as a subcontractor.

On November 1, 2012, the New Mexico Environment Department (NMED) took final administrative action and approved a Class 2 permit modification request to the WIPP hazardous waste facility permit. The U.S. Department of Energy Carlsbad Field Office and Nuclear Waste Partnership LLC submitted the permit modification to the NMED Hazardous Waste Bureau on July 5, 2012. The permit modification added the shielded container as a shipping package, added descriptions of how the volume of remote-handled transuranic mixed-waste disposed in shielded containers will be tracked and added related changes to waste handling descriptions.

Personnel

The Oversight Bureau advertised to fill the vacant Staff Manager position at the Sandia Oversight Section. Staff are reviewing the candidate list and preparing to interview candidates in January 2013.

Training

Staff scientist Tom Kesterson successfully completed the state defensive driving refresher. This class is required of all state employees that drive state vehicles.

PUBLIC OUTREACH (WPO71)

Under this Activity ID, Bureau staff interacts with the public through meetings, listening sessions, website development, consultations and reports.

Quarterly Summary: During FFY 2013 Q-1, Bureau staff participated in the 120th WIPP Quarterly Meeting, attended the proposed Panel Closure Redesign public outreach meeting and published several reports.

U.S. Environmental Protection Agency WIPP Proposed Panel Closure Redesign Public Outreach Meeting

Bureau staff attended the U.S. Environmental Protection Agency (EPA) public outreach meeting concerning the U.S. Department of Energy planned change request for the proposed panel closure redesign in Carlsbad on December 5, 2012. The purpose of the meeting was to discuss the specifics of the panel closure redesign and EPA's upcoming proposed rulemaking, which is scheduled for publication in early 2013. Staff from the DOE and the New Mexico Environment Department (NMED) was available to answer any stakeholder questions/concerns. The meeting served as an informal vehicle to receive preliminary comments and input from the public in advance of the rulemaking and its associated formal public hearings.

The meeting was well attended by citizens and representatives of Carlsbad, Eddy County and the State of New Mexico. Both of the introductory speakers and the majority of the public commenters supported the proposed panel closure redesign.

WIPP Quarterly Meeting

Oversight Bureau staff attended the 120th WIPP Quarterly meeting, hosted by the New Mexico Environment Department on October 25, 2012, in Albuquerque, and presented an update on the WIPP Oversight Section activities. Also in attendance were representatives from the U.S. Department of Energy, New Mexico Energy, Minerals and Natural Resources Department, New Mexico Environment Department Hazardous Waste Bureau, the New Mexico Radioactive Waste Consultation Task Force, the State Fire Marshal Office and the Department of Public Safety. Representatives from several non-government organizations were also in attendance.

Publications

Staff distributed the final report, titled "Station A Exhaust Air Monitoring at the Waste Isolation Pilot Plant Conducted by the New Mexico Environment Department, DOE Oversight Bureau, April - June 2012." No detections were found of any of the selected analytes above the sample minimum detectable concentration (MDC) in Station A filters for April through June of 2012.

Staff distributed the final report for the CY 2012 vegetation sampling project.

EXHAUST AIR MONITORING PROJECT (WEA72)

Under this Activity ID, Bureau staff monitors the exhaust air stream exiting the underground of the Waste Isolation Pilot Plant site. Staff collects air filters for National Emissions Standards for Hazardous Air Pollutants contaminants. Filters are compiled monthly and shipped to an independent contract laboratory where they are analyzed for radionuclides. Results are provided to the Department of Energy, Nuclear Waste Partnership LLC and the public. Staff also observes the weekly or bi-weekly preventative maintenance probe pulls for the cleaning of the shrouds and the probe nozzles.

Quarterly Summary: During FFY 2013 Q-1, Bureau staff continued National Emissions Standards for Hazardous Air Pollutants air filter collection at WIPP Station A (both primary and back-up) and Station B, observed preventative maintenance probe pulls and submitted reports for exhaust air monitoring for CY 2012.

Mining is ongoing for the Salt Disposal Investigations (SDI) project with hole drilling at N500 and mining at E690, as well as floor trimming in Panel 7. The underground continuous air monitors (CAMs) and Station D were operating during this quarter.

Exhaust Air Monitoring

Bureau staff continued to collect air filters for National Emissions Standards for Hazardous Air Pollutants (NESHAP) contaminants at WIPP Station A, the U.S. Environmental Protection Agency (EPA) compliance point, as well as from Station B. Staff collected filters daily from Station A, and weekly from Station B. Filters collected at Station A are compiled monthly and shipped to an independent contract laboratory where they are analyzed for radionuclides. Staff collects these filters during the standard work week; Waste Isolation Pilot Plant (WIPP) surface air monitor staff collects these filters during the weekends and holidays.

Skid A-3 almost exclusively serves as the primary skid of record, Skid A-2 serves as back-up and Skid A-1 is normally secured from service. There are times when either Skid A-2 or A-3 must be removed for maintenance, at which time Skid A-1 will be placed into operation, usually as the back-up.

In October, Skid A-2 served as the skid of record, with Skid A-3 back-up. In early November, Skid A-2 was secured from service for preventative maintenance of its flow meters. Skid A-3 was temporarily returned to service as the primary skid of reference, with Station D in service as back-up. Later in November 30, skid A-2 returned to service as the back-up and Station D was removed from service.

Staff distributed the final report, titled "Station A Exhaust Air Monitoring at the Waste Isolation Pilot Plant Conducted by the New Mexico Environment Department, DOE Oversight Bureau, April - June 2012." No detections were found of any of the selected analytes above the sample minimum detectable concentration (MDC) in Station A filters for April through June of 2012.

Staff prepared the draft report on Station A laboratory results for the CY 2012 Q-3, titled "Station A Exhaust Air Monitoring at the Waste Isolation Pilot Plant Conducted by the New Mexico Environment Department, DOE Oversight Bureau, July - September 2012."

Preventative Maintenance Probe Pulls

Staff members regularly observe preventative maintenance probe-pulls at Station A for the cleaning of the shrouds and nozzles (the probe). Personnel representing the Department of Energy Carlsbad Field Office and Nuclear Waste Partnership LLC (the Permittees) and the Carlsbad Environmental Monitoring and Research Center (CEMRC) are also present. Regular removal and cleaning of the nozzles and shrouds minimizes the accumulation of salt and ensures a collection of a representative sample of particulates on the filter. As the shrouds are removed, staff members photograph the probes and these photos are forwarded to the U.S. EPA Region 6 in Dallas, Texas.

During the probe pulls, the Permittees measure any salt occlusion in the nozzles and forward this information to the Bureau. A nozzle occlusion in excess of 66.7% indicates a failure, with that station being unable to collect a representative air sample. Salt occlusion over 33 1/3 % on the shrouds indicates a shroud failure. However, a shroud failure does not affect the collection of a representative air sample.

Table WEA72-1. Percent salt occlusion for Station A, January 1 to December 31, 2012.

Date	% Occlusion			Comment
	Skid A-1	Skid A-2	Skid A-3	
January 4, 2012	11.54	25.35	29.05	Shroud on A-1 failed
January 18, 2012	10.96	22.66	22.68	Shroud on A-1 failed
February 1, 2012	15.19	18.75	23.61	Shroud on A-1 failed
February 22, 2012	9.9	21.8	83.03	Shroud on A-1 failed; nozzle on A-3 failed
February 29, 2012	38.73	14.86	16.52	Shroud on A-1 considered marginal.
March 14, 2012	10.32	8.77	11.11	Shroud on A-1 failed
March 28, 2012	12.98	16.09	19.29	Shroud on A-1 failed
April 11, 2012	13.1	14.32	13.15	Shroud on A-1 failed
April 25, 2012	26.55	16.6	15.92	Shroud on A-1 failed
May 9, 2012	26.37	11.17	13.22	Shroud on A-1 failed
May 22, 2012	18.1	17.1	15.05	
June 7, 2012	7.33	6.84	9.07	
June 27, 2012	36.32	14	19.76	
July 18, 2012	6.24	19.03	35.9	
August 3, 2012	11.45	17.31	19.68	
August 15, 2012	7.14	9.29	12.21	Shroud on A-1 failed
August 29, 2012	9.7	9.6	11.4	
September 12, 2012	10.9	10.9	13.8	Shroud on A-1 failed
September 26, 2012	15.65	12.77	14.68	Shroud on A-1 failed
October 10, 2012	15.9	14.54	16.84	Shroud on A-1 failed
October 24, 2012	26.65	15.98	15.88	Shroud on A-1 failed
November 7, 2012	49.79	11.85	14.35	Shroud on A-1 failed
November 28, 2012	30.6	20.94	27.29	Shroud on A-1 failed
December 19, 2012	43.78	21.57	23.32	Shroud on A-1 failed

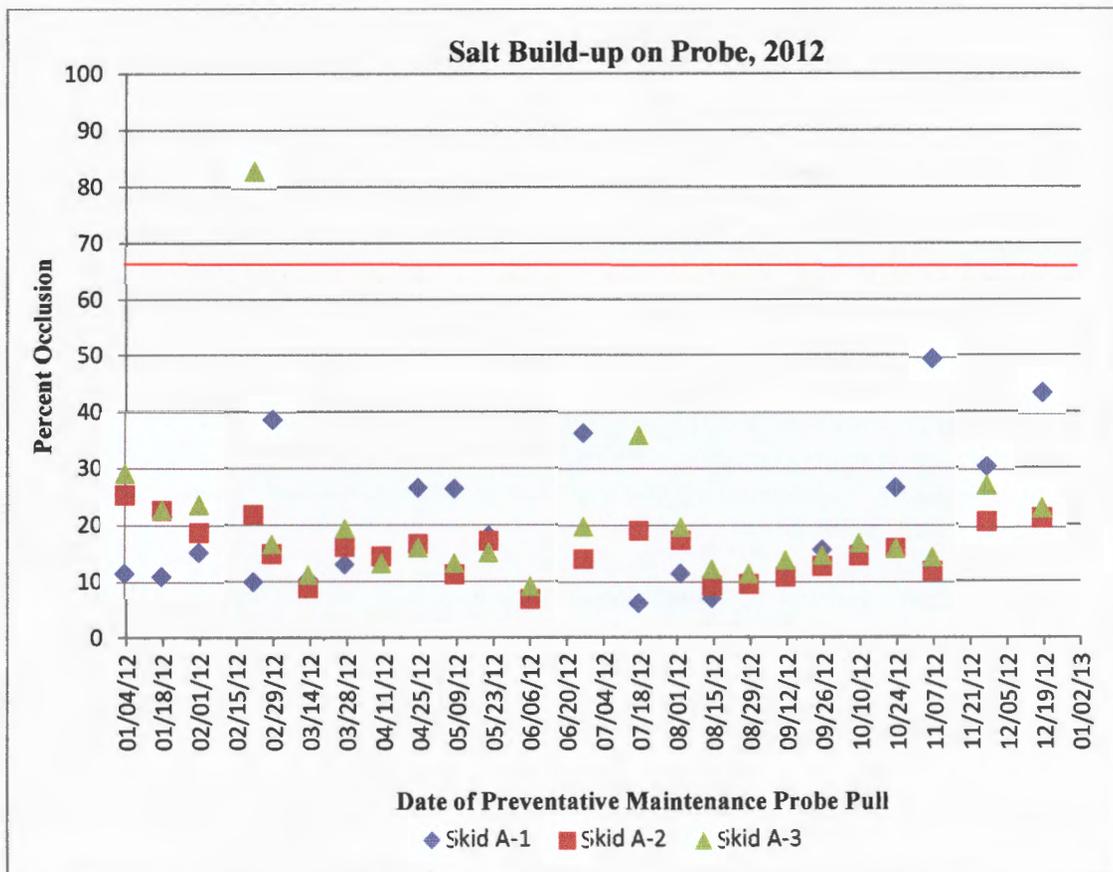


Figure WEA72-1. Scatter plot of salt build-up on nozzles for calendar year 2012. A nozzle occlusion in excess of 66.7% (red line in above graphic) indicates a failure, with that station being deemed unable to collect a representative air sample. The failure of the nozzle on Skid A-3, the primary skid of reference, can be observed on February 22, 2012.

There were no failures encountered on any of the nozzles during this quarter. Failures did occur on the shroud of Skid A-1.

In October, sub-contractors power washed the guide tube. Power washing is performed on an as needed basis.

DIRECT PENETRATING RADIATION PROJECT (WDP73)

Under this Activity ID, Bureau staff monitors direct penetrating (gamma) radiation in the environment at Waste Isolation Pilot Plant (WIPP) and in the vicinity for WIPP-sourced or ambient gamma radiation using passive electret ion chambers. The electret passive ion chamber uses the principle of ion pair production resulting from gamma photons interacting with air molecules to reduce the voltage of a charged Teflon™ disk. Using a predetermined formula, the voltage drop indicates the amount of radiation passing through the chamber. Staff reads electret passive ion chambers at the end of each quarter, converts readings into quarterly dose values and submits quarterly results to the U.S. Department of Energy, Nuclear Waste Partnership LLC and the public.

Quarterly Summary: During FFY 2013 Q-1, Bureau staff collected quarterly electret readings and temperature measurements at electret stations located on-site and off-site the Waste Isolation Pilot Plant, conducted routine monitoring and maintenance of electrets and prepared draft monitoring reports for CY 2012.

Staff prepared the draft report, titled “Direct Penetrating Radiation Monitoring at the Waste Isolation Pilot Plant conducted by NMED/DOE OB for the CY 2012 Q-2.”

Staff drafted a report titled, “Direct Penetrating Radiation Monitoring at the Waste Isolation Pilot Plant conducted by NMED/DOE OB for the CY 2012 Q-3.”

Staff shipped SPER-1E voltage reader and reference electrets to the vendor for annual calibration and recertification.

PARTICULATES LOW-VOLUME AIR PROJECT (WPL74)

Under this Activity ID, Bureau staff conducts continuous air monitoring to evaluate the presence of selected radioactive particles in the ambient air near the Waste Isolation Pilot Plant. Ambient air is sampled with continuously running, low-volume air samplers drawing air through particulate filters. The filters are compiled quarterly by location and analyzed by an independent laboratory for gross alpha and beta and for the presence of americium-241, cesium-137, plutonium-238, plutonium-239/240 and strontium-90. Results are provided the U.S. Department of Energy, Nuclear Waste Partnership LLC and the public.

Quarterly Summary: During FFY 2013 Q-1, Bureau staff maintained five (5) low-volume air samplers at four (4) monitoring stations, collected weekly filter samples, shipped filters to a contract lab for analysis and drafted monitoring reports for CY 2012 Q-2 and Q-3.

The WIPP Oversight Section had five (5) low-volume air samplers in operation during FFY 2012 Q-4. Four (4) air samplers are located at the WIPP site. One (1) sampler is co-located at the Tower Site for quality control purposes. The fifth sampler is at the Southeast Control Site, located approximately 12 miles upwind from the WIPP.

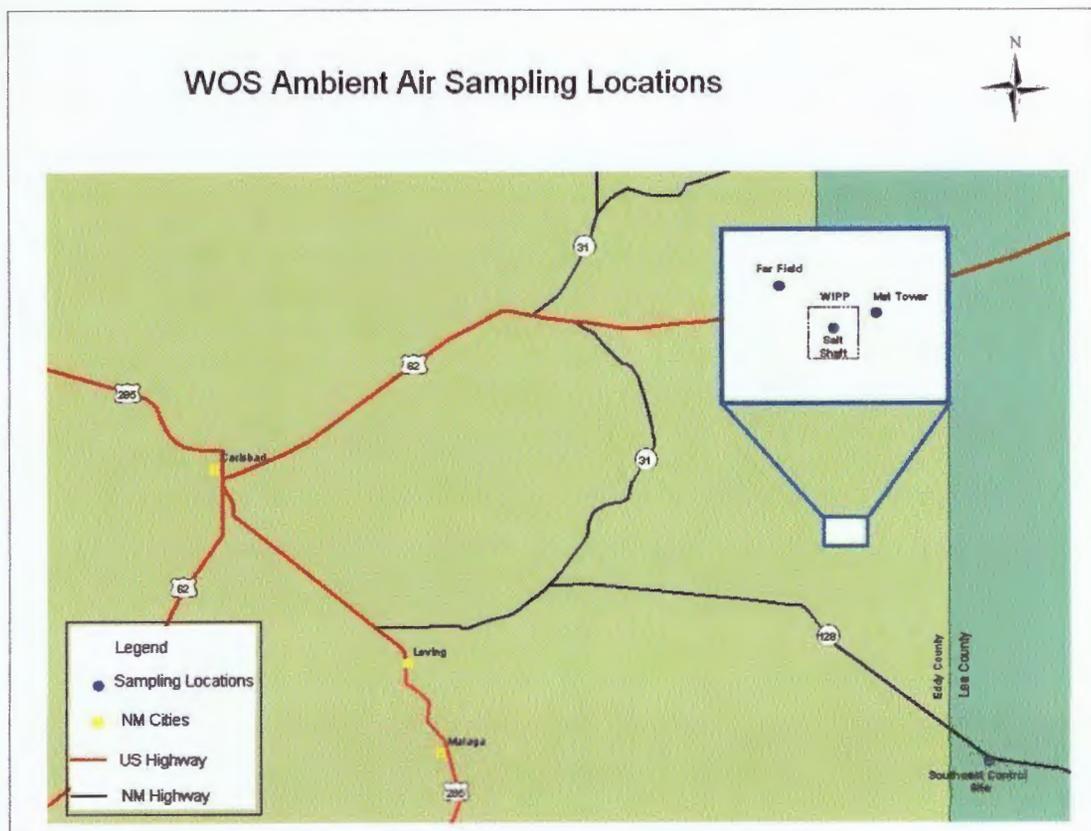


Figure WPL74-1 Low-volume air monitoring stations are located throughout WIPP and in the vicinity. Map prepared by Chris Armijo.

Staff drafted a report, titled "Ambient Air Monitoring at the Waste Isolation Pilot Plant Conducted by NMED/DOE OB for CY 2012 Q-2."

Staff drafted a report, titled "Ambient Air Monitoring at the Waste Isolation Pilot Plant Conducted by NMED/DOE OB for CY 2012 Q-3."

GENERAL ER/EM PROJECTS (WGE75)

Under this Activity ID, Bureau staff conducts multi-media environmental sampling on a periodic basis, and provides technical review services to the U.S. Department of Energy, Nuclear Waste Partnership LLC and the public. Multimedia sampling includes soil, sediment, vegetation and volatile organic compounds.

Quarterly Summary: During FFY 2012 Q-1, Bureau staff submitted the final report for the CY 2012 vegetation sampling.

Vegetation Sampling

Staff distributed the final report for the CY 2012 vegetation sampling project. Strontium-90 was detected above the sample minimum detectable concentration (MDC) in the vegetation samples collected from Far Field and the field duplicate collected at WIPP North. The laboratory duplicate also showed strontium-90 above the MDC in the Far Field sample. Strontium-90 was not detected in previous Oversight Bureau vegetation sampling activities. There were no detections above the sample MDC for any other selected analytes.

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