



**Department of Energy**  
Carlsbad Field Office  
P. O. Box 3090  
Carlsbad, New Mexico 88221  
December 02, 2010



Mr. Steve Zappe, WIPP Project Leader  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, New Mexico 87505-6303

**Subject:** Requested Information Regarding the 2009 and 2010 (January – October)  
Monthly Volumetrics Data

**Reference:** Email from Steve Zappe, New Mexico Environment Department, to George  
Basabilvazo, United States Department of Energy

Dear Mr. Zappe:

The purpose of this letter is to provide you with the 2009 and 2010 (January – October)  
volumetrics for water removed from the exhaust shaft intercept boreholes, 700-fan  
condensate, waste shaft sump, and precipitation data.

If you have any questions or comments please contact me at (575) 234-8128.

Sincerely,

Daniel J. Ferguson  
Site Regulatory Specialist

Enclosure(s)



### Attachment 1

#### Water Removed From the WIPP Underground and Exhaust Ductwork by Month

<b>700 Fan Condensate Water (Above Ground Exhaust Ductwork)</b>		<b>Exhaust Shaft Intercept Borehole Water</b>		<b>Waste Shaft Sump Water</b>	
<b>Calendar Year 2009</b>		<b>Calendar Year 2009</b>		<b>Calendar Year 2009</b>	
<b>Date</b>	<b>Gallons</b>	<b>Date</b>	<b>Gallons</b>	<b>Date</b>	<b>Gallons</b>
January	0	January	65	January	2,000
February	0	February	0	February	0
March	0	March	0	March	2,000
April	0	April	0	April	0
May	0	May	927	May	0
June	3,800	June	425	June	1,500
July	4,950	July	870	July	2,060
August	1,000	August	450	August	0
September	1,800	September	120	September	1,000
October	0	October	0	October	0
November	800	November	0	November	0
December	0	December	0	December	0
<b>Yearly total</b>	<b>12,350</b>	<b>Yearly total</b>	<b>2,857</b>	<b>Yearly total</b>	<b>8,560</b>

## Attachment 2

### Total Precipitation by Month (Inches) Data retrieved from the WIPP Meteorological Station

	January 2009	February 2009	March 2009	April 2009	May 2009	June 2009	July 2009	August 2009	September 2009	October 2009	November 2009	December 2009
1	0	0	0	0	0	0	0	0	0	0	0	0.90
2	0	0	0	0	0	0	0	0	0	0	0	0.02
3	0	0	0	0	0	0	0	0	0	0.03	0	0
4	0	0	0	0	0	0	0.10	0	0.05	0	0	0.01
5	0.03	0	0	0	0	0	0.34	0	0	0.20	0	0.03
6	0	0	0	0	0	0	0.15	0	0	0	0	0
7	0	0	0	0	0	0	0.03	0	0.07	0	0	0
8	0	0.07	0	0	0	0	0	0	0	0.01	0	0
9	0	0	0.06	0	0	0	0	0	0.16	0	0	0
10	0	0	0.10	0	0	0.25	0	0	0	0	0	0
11	0	0	0	0.05	0	0	0	1.00	0.09	0.02	0	0
12	0	0	0	0	0	0	0	0	0.61	0.01	0	0
13	0	0	0.03	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0.03	0	0	0	0	0	0	0
17	0	0	0	0	0	0.26	0	0	0	0	0	0
18	0	0	0	0	0	0.01	0.03	0	0	0	0	0
19	0	0	0	0	0	0.28	0	0	0	0	0	0
20	0	0	0.02	0	0	0.03	0	0	0	0.70	0	0
21	0	0	0	0	0	0	0	0	0	0.20	0	0
22	0	0	0	0	0.36	0	1.51	0	0	0	0	0
23	0	0	0.02	0	0.04	0	0	0	0	0	0	0.17
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0.02	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0.33	0	0
27	0	0	0	0	0.05	0	0	0.77	0	0.01	0	0
28	0	0	0	0	0	0.33	0.44	0	0	0	0	0
29	0		0	0	0	0	0	0	0	0	0.02	0.21
30	0		0	0	0	0.93	0.29	0	0	0	0.09	0.01
31	0		0		0.87		0.08	0		0		0
<b>Total</b>	<b>0.03</b>	<b>0.07</b>	<b>0.23</b>	<b>0.05</b>	<b>1.35</b>	<b>2.09</b>	<b>2.97</b>	<b>1.79</b>	<b>0.98</b>	<b>1.51</b>	<b>0.11</b>	<b>1.35</b>
<b>Total Precipitation from January through December 2009 ( inches ) = 12.53</b>												

### Attachment 3

#### Water Removed From the WIPP Underground and Exhaust Ductwork by Month

700 Fan Condensate Brine (Above Ground Exhaust Ductwork)		Exhaust Shaft Intercept Borehole Brine		Waste Shaft Sump Brine	
Calendar Year 2010		Calendar Year 2010		Calendar Year 2010	
Month	Gallons	Month	Gallons	Month	Gallons
January	0	January	44	January	0
February	600	February	0	February	0
March	900	March	0	March	1,875
April	1,800	April	55	April	0
May	9,400	May	125	May	0
June	4,000	June	72	June	1,000
July	24,500	July	3,958	July	1,000
August	1,600	August	573	August	1,500
September	3,800	September	270	September	1,000
October	1,000	October	0	October	1,000
November		November		November	
December		December		December	
<b>Yearly total</b>	<b>47,600</b>	<b>Yearly total</b>	<b>5,097</b>	<b>Yearly total</b>	<b>7,375</b>

### Attachment 4

**Total Precipitation by Month (Inches) Data retrieved from the WIPP Meteorological Station**

	January 2010	February 2010	March 2010	April 2010	May 2010	June 2010	July 2010	August 2010	September 2010	October 2010	November 2010	December 2010
1			0.10				0.01					
2												
3		0.61					1.36					
4		0.01										
5		0.01										
6												
7	0.05					0.14	0.01					
8		0.02	0.01				0.46	0.82				
9							0.04					
10		0.01					0.03					
11		0.52					0.55					
12							0.08			0.17		
13												
14				0.01	0.01				0.01			
15			0.29	0.01	0.01							
16									0.34			
17				0.01	0.23	0.07			0.64			
18												
19												
20								0.05				
21										0.03		
22	0.28	0.02							0.29			
23		0.07					0.03		0.09			
24							1.81					
25					0.65							
26												
27						0.05						
28	1.26						0.03					
29						0.94						
30					0.01	0.42	0.04	0.36				
31												
<b>Total</b>	<b>1.59</b>	<b>1.27</b>	<b>0.40</b>	<b>0.03</b>	<b>0.91</b>	<b>1.62</b>	<b>4.45</b>	<b>1.23</b>	<b>1.37</b>	<b>0.20</b>	<b>0</b>	<b>0</b>
<b>Total Precipitation for 2010 ( inches ) = 13.07</b>												