



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

JUN 09 2005



Mr. Steve Zappe, WIPP Project Leader  
Hazardous Waste Permits Program  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 E. Rodeo Park Dr. Bldg. 1  
Santa Fe, New Mexico 87505-6303

Subject: Transmittal of the Waste Isolation Pilot Plant Groundwater Level Measurements for the Month of May 2005

Dear Mr. Zappe:

The purpose of this letter is to submit the Waste Isolation Pilot Plant (WIPP) groundwater level data for the month of May 2005, as required by Module V.J.2.b of the Hazardous Waste Facility Permit No. NM4890139088-TSDF.

We certify under penalty of law that this document and all enclosures were prepared under our direction or supervision according to 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 fines and imprisonment for knowing violations.

Please contact Mr. Jody Plum at (505) 234-7462, if you have any questions regarding this data transmittal.

Sincerely,

Inés R. Triay, Acting Manager  
Carlsbad Field Office

Richard D. Raaz, General Manager  
Washington TRU Solutions LLC

Enclosure

cc: w/enclosure  
C. Walker, Trinity Engineering \*ED



Mr. Steve Zappe

-2-

cc: w/o enclosure

J. Kieling, NMED

ED

J. Bearzi, NMED

ED

Mr. Steve Zappe

-3-

bcc: w/o enclosure

H. Plum, CBFO

ED

G. Johnson, WTS

ED

L. Steven, WTS

ED

R. Chavez, WRES

ED

M. Crawley, WRES

ED

S. Jones, WRES

ED

R. Kehrman, WRES

ED

S. Kouba, WRES

ED

R. Reeves, WRES

ED

J. Siegel, WRES

ED

RCRA Chronology

WIPP Operating Record

CBFO M&RC

SUMMARY COMMENTS FOR THE WATER LEVEL MEASUREMENTS FOR THE  
MONTH OF MAY 2005

1. The WIPP Hazardous Waste Facility Permit, Attachment L, Section L-4c (1) requires cumulative fluctuations noted in the Detection Monitoring Program wells of more than two feet in the course of one year which are not attributable to site tests or natural stabilization to be reported. None of the Water Quality Sampling Program wells indicate more than two feet of cumulative change from April 2004 through May 2005. Interim fluctuations in the Detection Monitoring Program wells greater than two feet are related to specific pumping episodes or natural stabilization.
2. Groundwater level measurements were not taken at well WIPP-30 Production Inflation Packer (PIP), due to Sandia National Laboratories (SNL) testing. Water level measurements will not be taken from this well until testing is completed and instrumentation removed.
3. Well H-2b1 Magenta was converted from a dual completion well to a single completion well in the Magenta Member of the Rustler Formation. Well H-2b2 remains a Culebra well. Water levels in this well reflect the effects of well maintenance and reconfiguration of the wells.
4. Wells H-14, H-18, H-04c, and H-06c have been plugged back to the Magenta. Water levels in these wells reflect the effects of well maintenance and reconfiguration of the wells.
5. Wells AEC-8, H-02a, H-02c, H-06a, WPP-29, and H-07b2 have been plugged and abandoned.
6. A groundwater level measurement was not taken at well H-15 Magenta (MAG) due to automated water level monitoring testing. Water level measurements will resume after all instrumentation is removed.
7. A water level at well H-18 was not taken due to broken cattle guard precluding access. Water level measurements will resume next month if cattle guard is repaired.
8. Adjusted freshwater heads are based on published fluid density data. Density values may be changed from previously published data (such as DOE/WIPP 03-3291, *SNL 9 Basic Data Report*) for any well that has experienced a significant event such as well maintenance, sampling, development, or pumping activities if the wellbore fluid density was altered.

WATERLEVEL ELEVATION  
UPDATE  
May 2005

WELL NUMBER	ZONE	CASING ELEVATION ft amsl	DATE	TIME (MST)	DEPTH TO WATER ft	ADJUST TO TOC ft	ADJUSTED DEPTH TOC ft	ADJUSTED DEPTH METERS	WATER LEVEL ELEVATION ft amsl	ELEVATION IN METERS amsl	ADJUSTED FRESHWATER HEAD ft amsl
AEC-7	CUL	3657.29	05/17/05	14:37	561.02	0.00	561.02	171.00	3096.27	943.74	3124.46
C-2737 (PIP)	CUL	3399.30	05/18/05	07:35	389.61	0.89	388.72	118.48	3010.58	917.62	3015.69
DOE-1	CUL	3466.04	05/16/05	13:18	474.87	0.00	474.87	144.74	2991.17	911.71	3020.85
ERDA-9	CUL	3410.10	05/16/05	09:09	400.89	0.65	400.24	121.99	3009.86	917.41	3025.37
H-02b2	CUL	3378.31	05/16/05	11:48	336.25	0.00	336.25	102.49	3042.06	927.22	3044.45
H-03b2	CUL	3390.03	05/16/05	09:50	389.10	0.00	389.10	118.60	3000.93	914.68	3012.36
H-04b	CUL	3333.35	05/16/05	10:50	329.10	0.00	329.10	100.31	3004.25	915.70	3017.90
H-05b	CUL	3506.04	05/18/05	08:30	476.69	0.00	476.69	145.30	3029.35	923.35	3074.33
H-06b	CUL	3348.25	05/17/05	08:14	291.87	0.00	291.87	88.96	3056.38	931.58	3068.70
H-07b1	CUL	3164.17	05/17/05	10:52	162.97	0.00	162.97	49.67	3001.20	914.77	3001.67
H-09c (PIP)	CUL	3407.30	05/17/05	12:03	410.02	0.08	409.94	124.95	2997.36	913.60	2997.61
H-10c	CUL	3688.64	05/17/05	13:07	664.18	0.00	664.18	202.44	3024.46	921.86	3024.46
H-11b4	CUL	3410.89	05/16/05	13:30	423.54	0.00	423.54	129.09	2987.35	910.54	3007.63
H-12	CUL	3427.19	05/17/05	13:37	459.55	0.00	459.55	140.07	2967.64	904.54	3004.70
H-15	CUL	3481.63	05/16/05	09:20	492.05	0.98	491.07	149.68	2990.56	911.52	3048.08
H-17	CUL	3385.31	05/16/05	14:26	419.20	0.00	419.20	127.77	2966.11	904.07	3016.02
H-19b0	CUL	3418.38	05/16/05	10:20	426.40	0.00	426.40	129.97	2991.98	911.96	3013.90
I-461	CUL	3289.48	05/17/05	08:34	237.95	0.00	237.95	72.63	3051.53	930.11	3054.16
P-17	CUL	3337.24	05/16/05	14:08	349.93	0.00	349.93	106.66	2987.31	910.53	3001.74
SNL-01	CUL	3512.84	05/18/05	10:10	437.26	0.00	437.26	133.28	3075.58	937.44	3079.97
SNL-02	CUL	3323.03	05/17/05	07:18	251.17	0.00	251.17	76.56	3071.86	936.30	3075.15
SNL-03	CUL	3490.34	05/17/05	06:40	421.75	0.00	421.75	128.55	3068.59	935.31	3078.26
SNL-05	CUL	3381.88	05/17/05	07:07	309.44	0.00	309.44	94.32	3072.44	936.48	3074.49
SNL-09	CUL	3360.95	05/17/05	07:40	311.03	0.00	311.03	94.80	3049.92	929.62	3054.23
SNL-12	CUL	3339.44	05/17/05	12:26	336.64	0.00	336.64	102.61	3002.80	915.25	3003.73
WIPP-12	CUL	3472.06	05/16/05	08:17	439.92	0.00	439.92	134.09	3032.14	924.20	3068.94
WIPP-13	CUL	3405.71	05/16/05	15:07	347.24	0.00	347.24	105.84	3058.47	932.22	3069.07
WIPP-19	CUL	3435.14	05/16/05	08:35	395.22	0.00	395.22	120.46	3039.92	926.57	3077.72
WIPP-21	CUL	3418.96	05/16/05	08:57	402.25	0.00	402.25	122.61	3016.71	919.49	3040.90
WIPP-22	CUL	3428.12	05/16/05	08:47	397.75	0.00	397.75	121.23	3030.37	923.66	3061.46
WIPP-25 (PIP)	CUL	3214.39	05/17/05	08:53	148.02	0.42	147.60	44.99	3066.79	934.76	3063.65
WIPP-26	CUL	3153.20	05/17/05	10:27	127.19	0.00	127.19	38.77	3026.01	922.33	3026.15
WIPP-27 (PIP)	CUL	3178.98	05/17/05	09:40	94.13	0.42	93.71	28.56	3085.27	940.39	3091.45
WQSP-1	CUL	3419.20	05/16/05	12:55	362.93	0.16	362.77	110.57	3056.43	931.60	3073.25
WQSP-2	CUL	3463.90	05/16/05	12:40	402.75	0.16	402.59	122.71	3061.31	933.09	3081.14
WQSP-3	CUL	3480.30	05/16/05	08:00	468.04	0.16	467.88	142.61	3012.42	918.19	3069.64
WQSP-4	CUL	3433.00	05/16/05	10:00	443.82	0.16	443.66	135.23	2989.34	911.15	3014.43
WQSP-5	CUL	3384.40	05/16/05	10:10	379.85	0.16	379.69	115.73	3004.71	915.84	3011.81
WQSP-6	CUL	3364.70	05/16/05	10:33	345.80	0.16	345.64	105.35	3019.06	920.21	3022.84
C-2737 (ANNULUS)	MAG	3399.30	05/18/05	07:42	255.57	0.00	255.57	77.90	3143.73	958.21	*
H-02b1	MAG	3378.46	05/16/05	11:41	94.43	0.00	94.43	28.78	3284.03	1000.97	*
H-03b1	MAG	3390.64	05/16/05	09:38	244.64	0.00	244.64	74.57	3146.00	958.90	*
H-04c	MAG	3334.04	05/16/05	11:00	144.00	0.00	144.00	43.89	3190.04	972.32	*
H-05c	MAG	3506.04	05/18/05	08:42	349.36	0.00	349.36	106.48	3156.68	962.16	*
H-06c	MAG	3348.52	05/16/05	08:07	267.18	0.00	267.18	81.44	3081.34	939.19	*
H-08a	MAG	3432.99	05/17/05	11:27	405.60	0.00	405.60	123.63	3027.39	922.75	*
H-09c (ANNULUS)	MAG	3407.30	05/17/05	12:12	270.88	0.00	270.88	82.56	3136.42	955.98	*
H-10a	MAG	3688.67	05/17/05	12:55	466.81	0.00	466.81	142.28	3221.86	982.02	*
H-11b2	MAG	3411.64	05/16/05	13:35	278.18	0.00	278.18	84.79	3133.46	955.08	*
H-14	MAG	3347.11	05/16/05	07:10	51.64	0.00	51.64	15.74	3295.47	1004.46	*
WIPP-18	MAG	3458.76	05/16/05	08:27	314.13	0.00	314.13	95.75	3144.63	958.48	*
WIPP-25 (ANNULUS)	MAG	3214.39	05/17/05	08:58	151.60	0.00	151.60	46.21	3062.79	933.54	*
H-03/DL (PVC)	DL	3390.01	05/16/05	09:43	313.20	2.22	310.98	94.79	3079.03	938.49	*
WQSP-6a	DL	3363.80	05/16/05	07:25	167.02	0.25	166.77	50.83	3197.03	974.45	*
H-08c	RUS/SAL	3432.90	05/17/05	11:36	451.38	0.00	451.38	137.58	2981.52	908.77	*
CB-1(PIP)	B/C	3328.87	05/16/05	13:48	602.52	0.00	602.52	183.65	2726.35	830.99	*
DOE-2	B/C	3418.96	05/18/05	06:10	738.98	0.00	738.98	225.24	2679.98	816.86	*

\* Density data not acquired, therefore adjusted freshwater head measurements cannot be calculated for these wells.