



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



April 5, 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 March 2005

Dear Mr. Zappe:

The purpose of this letter is to submit the Waste Isolation Pilot Plant ground water level data for the month of March 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 attachments 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 feel free to contact Mr. Jody Plum at (505) 234-7462, if you have any questions regarding this data transmittal.

Sincerely,

Dr. Ines R. Triay, Acting Manager
DOE Carlsbad Field Office

Richard D. Raaz, General Manager
Washington TRU Solutions LLC

Enclosure

cc: w/o enclosure

J. Kieling, NMED * ED

J. Bearzi, NMED ED



SUMMARY COMMENTS FOR THE WATER LEVEL MEASUREMENTS FOR THE
MONTH OF MARCH 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 February 2004 through March 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 wells WQSP-1, WQSP-2, and WQSP-3 due to instrumentation installed by Sandia National Laboratories (SNL). Manual water level measurements will resume in April.
3. Groundwater level measurements were not taken at wells WIPP-30 Production Inflation Packer (PIP), and SNL-1 due to SNL testing. Water level measurements will not be taken from these wells until all testing is completed and instrumentation removed.
4. A groundwater level measurement was not taken at well H-15 Magenta (MAG) due to automated water level monitoring testing. Water level measurements will not be taken until all testing is completed and all instrumentation removed.
5. 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 Measurements
For
March 2005

WELL NUMBER	ZONE	CASING ELEVATION ft amsl	DATE	TIME (MST)	DEPTH	ADJUST	ADJUSTED	ADJUSTED	WATER	ELEVATION	ADJUSTED
					TO WATER ft	TO TOC ft	DEPTH TOC ft	DEPTH METERS	LEVEL ELEVATION ft amsl	IN METERS amsl	FRESHWATER HEAD ft amsl
AEC-7	CUL	3657.29	03/07/05	13:48	584.98	0.00	584.98	178.30	3072.31	936.44	3098.33
C-2737 (PIP)	CUL	3399.30	03/16/05	12:25	390.09	0.89	389.20	118.63	3010.10	917.48	3015.20
DOE-1	CUL	3466.04	03/10/05	13:03	476.56	0.00	476.56	145.26	2989.48	911.19	3019.02
ERDA-9	CUL	3410.10	03/16/05	10:47	401.64	0.65	400.99	122.22	3009.11	917.18	3024.68
H-02a	CUL	3378.09	03/08/05	08:25	337.96	0.00	337.96	103.01	3040.13	926.63	3043.69
H-02b2	CUL	3378.31	03/08/05	08:35	339.71	0.00	339.71	103.54	3038.60	926.17	3040.96
H-02c	CUL	3378.41	03/08/05	08:55	339.84	0.00	339.84	103.58	3038.57	926.16	3051.50
H-03b2	CUL	3390.03	03/08/05	13:08	389.53	0.00	389.53	118.73	3000.50	914.55	3011.91
H-03b3	CUL	3388.67	03/08/05	13:20	383.88	0.00	383.88	117.01	3004.79	915.86	3014.69
H-04b	CUL	3333.35	03/08/05	09:40	329.35	0.00	329.35	100.39	3004.00	915.62	3007.65
H-05a	CUL	3506.24	03/10/05	09:14	473.94	0.00	473.94	144.46	3032.30	924.25	3072.34
H-05b	CUL	3506.04	03/10/05	09:00	476.43	0.00	476.43	145.22	3029.61	923.43	3074.61
H-06a	CUL	3348.11	03/07/05	10:52	295.42	0.00	295.42	90.04	3052.69	930.46	3064.89
H-06b	CUL	3348.25	03/07/05	10:57	296.78	0.00	296.78	90.46	3051.47	930.09	3063.61
H-07b1	CUL	3164.17	03/07/05	07:19	162.90	0.00	162.90	49.65	3001.27	914.79	3001.74
H-07b2	CUL	3165.07	03/07/05	07:10	164.01	0.00	164.01	49.99	3001.06	914.72	3000.97
H-09c (PIP)	CUL	3407.30	03/10/05	11:21	410.13	0.08	410.05	124.98	2997.25	913.56	2997.50
H-10c	CUL	3688.64	03/10/05	10:31	663.90	0.00	663.90	202.36	3024.74	921.94	3024.74
H-11b1	CUL	3411.62	03/10/05	13:27	417.24	0.00	417.24	127.17	2994.38	912.69	3018.53
H-11b4	CUL	3410.89	03/10/05	13:13	423.93	0.00	423.93	129.21	2986.96	910.43	3007.21
H-15	CUL	3481.63	03/16/05	12:12	492.28	0.98	491.30	149.76	2990.33	911.45	3047.82
H-17	CUL	3385.31	03/10/05	13:40	419.55	0.00	419.55	127.88	2965.76	903.96	3015.62
H-19b0	CUL	3418.38	03/08/05	11:10	426.93	0.00	426.93	130.13	2991.45	911.79	3013.33
H-19b2	CUL	3419.01	03/08/05	11:38	428.28	0.00	428.28	130.64	2990.73	911.57	3012.67
H-19b3	CUL	3419.09	03/08/05	12:10	428.48	0.00	428.48	130.60	2990.61	911.54	3012.44
H-19b4	CUL	3419.03	03/08/05	11:55	427.72	0.00	427.72	130.37	2991.31	911.75	3013.04
H-19b5	CUL	3418.63	03/08/05	11:48	427.78	0.00	427.78	130.39	2990.85	911.61	3012.48
H-19b6	CUL	3419.07	03/08/05	12:20	428.38	0.00	428.38	130.57	2990.69	911.56	3012.46
H-19b7	CUL	3418.99	03/08/05	11:30	428.49	0.00	428.49	130.60	2990.50	911.50	3012.30
I-461	CUL	3289.48	03/07/05	10:10	238.39	0.00	238.39	72.66	3051.09	929.97	3053.71
P-17	CUL	3337.24	03/10/05	13:51	350.31	0.00	350.31	106.77	2986.93	910.42	3001.34
SNL-02	CUL	3323.03	03/07/05	11:33	251.93	0.00	251.93	76.79	3071.10	936.07	3074.38
SNL-03	CUL	3490.34	03/07/05	13:13	428.34	0.00	428.34	130.56	3062.00	933.30	3071.48
SNL-05	CUL	3381.88	03/07/05	12:23	315.67	0.00	315.67	96.22	3066.21	934.58	3068.22
SNL-09	CUL	3360.95	03/07/05	10:30	311.92	0.00	311.92	95.07	3049.03	929.34	3053.32
SNL-12	CUL	3339.44	03/10/05	10:58	337.01	0.00	337.01	102.72	3002.43	915.14	3003.36
WIPP-12	CUL	3472.06	03/16/05	11:12	449.28	0.00	449.28	136.94	3022.78	921.34	3058.68
WIPP-13	CUL	3405.71	03/07/05	14:44	356.72	0.00	356.72	108.73	3048.99	929.33	3059.32
WIPP-19	CUL	3435.14	03/16/05	11:27	399.80	0.00	399.80	121.86	3035.34	925.17	3072.68
WIPP-21	CUL	3418.96	03/16/05	12:00	404.29	0.00	404.29	123.23	3014.67	918.87	3038.72
WIPP-22	CUL	3428.12	03/16/05	11:36	401.27	0.00	401.27	122.31	3026.85	922.58	3057.63
WIPP-25 (PIP)	CUL	3214.39	03/07/05	09:45	148.64	0.42	148.22	45.18	3066.17	934.57	3063.04
WIPP-26	CUL	3153.20	03/07/05	07:45	127.31	0.00	127.31	38.80	3025.89	922.29	3026.03
WIPP-27 (PIP)	CUL	3178.98	03/07/05	09:00	93.48	0.42	93.06	28.36	3085.92	940.59	3092.12
WIPP-29	CUL	2978.26	03/07/05	08:10	10.56	0.00	10.56	3.22	2967.70	904.55	2970.98
WQSP-4	CUL	3433.00	03/08/05	10:55	444.34	0.16	444.18	135.39	2988.82	910.99	3013.87
WQSP-5	CUL	3384.40	03/08/05	10:40	380.04	0.16	379.88	115.79	3004.52	915.78	3011.62
WQSP-6	CUL	3364.70	03/08/05	10:05	346.22	0.16	346.06	105.48	3018.64	920.08	3022.41
C-2737 (ANNULUS)	MAG	3399.30	03/16/05	12:27	255.80	0.00	255.80	77.97	3143.50	958.14	*
H-02b1	MAG	3378.46	03/08/05	09:05	234.89	0.00	234.89	71.59	3143.57	958.16	*
H-03b1	MAG	3390.64	03/08/05	12:44	244.84	0.00	244.84	74.63	3145.80	958.84	*
H-04c	MAG	3334.04	03/08/05	09:50	193.04	0.00	193.04	58.84	3141.00	957.38	*
H-05c	MAG	3506.04	03/10/05	09:25	349.43	0.00	349.43	106.51	3156.61	962.13	*
H-06c	MAG	3348.52	03/07/05	11:05	281.36	0.00	281.36	85.76	3067.16	934.87	*
H-08a	MAG	3432.99	03/10/05	12:11	405.60	0.00	405.60	123.63	3027.39	922.75	*
H-09c (ANNULUS)	MAG	3407.30	03/10/05	11:24	270.94	0.00	270.94	82.58	3136.36	955.96	*
H-10a	MAG	3688.67	03/10/05	10:20	466.71	0.00	466.71	142.25	3221.96	982.05	*
H-11b2	MAG	3411.64	03/10/05	13:19	278.35	0.00	278.35	84.84	3133.29	955.03	*
H-14	MAG	3347.11	03/08/05	09:20	235.90	0.00	235.90	71.90	3111.21	948.30	*
H-18	MAG	3414.21	03/07/05	14:58	347.06	0.00	347.06	105.78	3067.15	934.87	*
WIPP-18	MAG	3458.76	03/16/05	11:21	314.22	0.00	314.22	95.77	3144.54	958.46	*
WIPP-25 (ANNULUS)	MAG	3214.39	03/07/05	09:50	152.14	0.00	152.14	46.37	3062.25	933.37	*
H-03d/DL (PVC)	DL	3390.01	03/08/05	12:57	313.80	2.22	311.58	94.97	3078.43	936.31	*
WQSP-6a	DL	3363.80	03/08/05	10:25	166.89	0.25	166.64	50.79	3197.16	974.49	*
H-08c	RUS/SAL	3432.90	03/10/05	12:18	451.48	0.00	451.48	137.61	2981.42	908.74	*
AEC-8	B/C	3537.10	03/10/05	09:40	465.10	0.00	465.10	141.76	3072.00	936.35	*

Waterlevel Measurements
For
March 2005

WELL NUMBER	ZONE	CASING ELEVATION ft amsl	DATE	TIME (MST)	DEPTH	ADJUST	ADJUSTED	ADJUSTED	WATER	ELEVATION	ADJUSTED
					TO WATER ft	TO TOC ft	DEPTH TOC ft	DEPTH METERS	LEVEL ELEVATION ft amsl	IN METERS amsl	FRESHWATER HEAD ft amsl
CB-1(PIP)	B/C	3328.87	03/10/05	14:15	602.74	0.00	602.74	183.72	2726.13	830.92	*
DOE-2	B/C	3418.96	03/07/05	14:25	740.63	0.00	740.63	225.74	2678.33	816.36	*
C-2505	SR/D	3413.05	03/16/05	09:18	44.04	0.00	44.04	13.42	3369.01	1026.87	*
C-2506	SR/D	3412.87	03/16/05	09:15	43.46	0.00	43.46	13.25	3369.41	1027.00	*
C-2507	SR/D	3410.01	03/16/05	09:09	43.85	0.00	43.85	13.37	3366.16	1026.01	*
C-2811	SR/D	3398.92	03/16/05	12:37	56.38	0.00	56.38	17.18	3342.54	1018.81	*
PZ-01	SR/D	3413.41	03/16/05	09:41	41.44	0.00	41.44	12.63	3371.97	1027.78	*
PZ-02	SR/D	3413.42	03/16/05	09:22	42.11	0.00	42.11	12.84	3371.31	1027.58	*
PZ-03	SR/D	3416.15	03/16/05	09:27	43.98	0.00	43.98	13.41	3372.17	1027.84	*
PZ-04	SR/D	3412.10	03/16/05	09:50	45.32	0.00	45.32	13.81	3366.78	1026.19	*
PZ-05	SR/D	3415.31	03/16/05	09:33	40.58	0.00	40.58	12.37	3374.73	1028.62	*
PZ-06	SR/D	3413.49	03/16/05	09:36	42.14	0.00	42.14	12.84	3371.35	1027.59	*
PZ-07	SR/D	3413.99	03/16/05	10:09	36.20	0.00	36.20	11.03	3377.79	1029.55	*
PZ-09	SR/D	3421.21	03/16/05	11:50	54.74	0.00	54.74	16.68	3366.47	1026.10	*
PZ-10	SR/D	3405.80	03/16/05	10:26	33.54	0.00	33.54	10.22	3372.26	1027.86	*
PZ-11	SR/D	3418.95	03/16/05	10:18	44.37	0.00	44.37	13.52	3374.58	1028.57	*
PZ-12	SR/D	3408.99	03/16/05	10:33	50.10	0.00	50.10	15.27	3358.89	1023.79	*

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