



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



MAY 12 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 April 2005

Dear Mr. Zappe:


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

Sincerely,


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

 for
 Richard D. Raaz, General Manager
 Washington TRU Solutions LLC

Enclosure

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

cc: w/o enclosure
 J. Kieling, NMED ED
 J. Bearzi, NMED ED



Mr. Steve Zappe

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bcc: w/o enclosure

H. Plum, CBFO *ED

G. Johnson, WTS ED

L. Steven, WTS ED

R. Chavez, WTS ED

M. Crawley, WTS ED

S. Jones, WTS ED

R. Kehrman, WTS ED

S. Kouba, WTS ED

R. Reeves, WTS ED

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WIPP Operating Record

RCRA Chronology, GSA 109

CBFO M&RC

SUMMARY COMMENTS FOR THE WATER LEVEL MEASUREMENTS FOR THE
MONTH OF APRIL 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 March 2004 through April 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 WIPP-30 Production Inflation Packer (PIP), and H-12 due to Sandia National Laboratories (SNL) testing. Water level measurements will not be taken from these wells 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 Culebra remains a Culebra well. Water levels in these wells reflect the affects of well maintenance and reconfiguration of the wells.
4. Wells AEC-8, H-2a and H-2c have been plugged and abandoned.
5. 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.
6. 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
April 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	3667.29	04/19/05	11:38	569.90	0.00	569.90	173.71	3087.39	941.04	3114.77
C-2737 (PIP)	CUL	3399.30	04/19/05	12:46	390.00	0.89	389.11	118.80	3010.19	917.51	3015.29
DOE-1	CUL	3468.04	04/19/05	09:56	475.62	0.00	475.62	144.97	2990.42	911.48	3020.04
ERDA-9	CUL	3410.10	04/19/05	08:25	401.53	0.65	400.88	122.19	3009.22	917.21	3024.70
H-02b2	CUL	3378.31	04/25/05	12:34	333.61	0.00	333.61	101.65	3044.80	928.08	3047.21
H-03b2	CUL	3390.03	04/19/05	08:31	389.32	0.00	389.32	118.60	3000.71	914.62	3012.12
H-04b	CUL	3333.35	04/19/05	09:33	329.05	0.00	329.05	100.29	3004.30	915.71	3007.95
H-05b	CUL	3506.04	04/19/05	12:00	476.55	0.00	476.55	145.25	3029.49	923.39	3074.48
H-06b	CUL	3348.25	04/18/05	11:50	292.60	0.00	292.60	89.18	3056.65	931.36	3067.95
H-07b2	CUL	3165.07	04/18/05	08:45	164.17	0.00	164.17	50.04	3000.90	914.67	3030.81
H-09c (PIP)	CUL	3407.30	04/18/05	13:45	410.13	0.08	410.05	124.98	2997.25	913.56	2997.50
H-10c	CUL	3688.64	04/19/05	10:40	664.10	0.00	664.10	202.42	3024.54	921.88	3024.54
H-11b4	CUL	3410.89	04/19/05	13:13	423.58	0.00	423.58	129.11	2987.31	910.53	3007.59
H-15	CUL	3481.63	04/19/05	06:15	491.96	0.98	490.97	149.66	2990.66	911.56	3048.20
H-17	CUL	3386.31	04/18/05	13:33	419.25	0.00	419.25	127.79	2966.06	904.06	3015.97
H-19b0	CUL	3418.38	04/19/05	08:57	426.50	0.00	426.50	130.00	2991.88	911.93	3013.79
I-461	CUL	3289.48	04/18/05	12:27	238.73	0.00	238.73	72.76	3050.75	929.97	3053.36
P-17	CUL	3337.24	04/19/05	13:46	349.96	0.00	349.96	106.69	2987.29	910.53	3001.72
SNL-01	CUL	3512.84	04/19/05	10:09	437.65	0.00	437.65	133.40	3075.19	937.32	3079.57
SNL-02	CUL	3323.03	04/18/05	09:11	251.38	0.00	251.38	76.62	3071.65	938.24	3074.94
SNL-03	CUL	3490.34	04/18/05	10:30	422.85	0.00	422.85	128.88	3067.49	934.97	3077.13
SNL-05	CUL	3381.88	04/18/05	09:25	310.37	0.00	310.37	94.60	3071.51	938.20	3073.55
SNL-09	CUL	3380.95	04/18/05	12:08	311.29	0.00	311.29	94.88	3049.66	929.54	3053.98
SNL-12	CUL	3338.44	04/18/05	14:07	336.73	0.00	336.73	102.64	3002.71	915.23	3003.64
WIPP-12	CUL	3472.06	04/19/05	08:45	442.30	0.00	442.30	134.81	3029.76	923.47	3086.33
WIPP-13	CUL	3405.71	04/19/05	11:02	348.44	0.00	348.44	106.20	3057.27	931.86	3067.84
WIPP-19	CUL	3435.14	04/19/05	07:20	398.63	0.00	398.63	120.89	3038.51	928.14	3076.17
WIPP-21	CUL	3418.96	04/19/05	08:05	403.21	0.00	403.21	122.90	3015.75	919.20	3039.87
WIPP-22	CUL	3428.12	04/19/05	07:55	399.05	0.00	399.05	121.63	3029.07	923.26	3060.05
WIPP-25 (PIP)	CUL	3214.39	04/25/05	11:44	148.13	0.42	147.71	45.02	3086.68	934.72	3083.54
WIPP-26	CUL	3153.20	04/25/05	09:62	127.01	0.00	127.01	38.71	3026.19	922.38	3026.33
WIPP-27 (PIP)	CUL	3176.98	04/25/05	11:00	94.10	0.42	93.68	28.55	3085.30	940.40	3091.48
WIPP-29	CUL	2978.26	04/18/05	08:00	10.45	0.00	10.45	3.19	2987.81	904.59	2971.11
WQSP-1	CUL	3419.20	04/18/05	11:19	364.17	0.16	364.01	110.95	3055.19	931.22	3071.95
WQSP-2	CUL	3463.90	04/19/05	12:36	403.61	0.16	403.45	122.97	3080.45	932.93	3080.24
WQSP-3	CUL	3480.30	04/19/05	07:33	470.46	0.18	470.30	143.35	3010.00	917.45	3068.87
WQSP-4	CUL	3433.00	04/19/05	08:40	443.94	0.16	443.78	135.26	2989.22	911.11	3014.30
WQSP-5	CUL	3384.40	04/19/05	09:04	380.08	0.16	379.92	115.80	3004.48	915.77	3011.58
WQSP-6	CUL	3364.70	04/19/05	09:14	348.71	0.16	348.55	106.24	3016.15	919.32	3019.88
C-2737 (ANNULUS)	MAG	3399.30	04/19/05	12:51	255.67	0.00	255.67	77.93	3143.83	959.18	*
H-02b1	MAG	3378.46	04/25/05	12:45	54.20	0.00	54.20	16.52	3324.26	1013.23	*
H-03b1	MAG	3390.64	04/19/05	08:19	244.71	0.00	244.71	74.59	3145.93	959.88	*
H-04c	MAG	3334.04	04/19/05	09:38	193.20	0.00	193.20	58.89	3140.84	957.33	*
H-05c	MAG	3508.04	04/19/05	12:12	349.40	0.00	349.40	106.50	3156.64	962.14	*
H-08c	MAG	3348.52	04/18/05	11:45	281.26	0.00	281.26	85.73	3067.26	934.90	*
H-08a	MAG	3432.99	04/18/05	13:13	405.60	0.00	405.60	123.63	3027.39	922.75	*
H-09c (ANNULUS)	MAG	3407.30	04/18/05	13:51	270.95	0.00	270.95	82.59	3136.35	955.96	*
H-10a	MAG	3686.87	04/19/05	10:33	466.78	0.00	466.78	142.27	3221.91	982.04	*
H-11b2	MAG	3411.64	04/19/05	12:21	278.20	0.00	278.20	84.80	3133.44	955.07	*
H-14	MAG	3347.11	04/19/05	14:40	235.47	0.00	235.47	71.77	3111.64	948.43	*
H-18	MAG	3414.21	04/18/05	11:27	339.31	0.00	339.31	103.42	3074.90	937.23	*
WIPP-18	MAG	3458.76	04/19/05	07:00	314.13	0.00	314.13	95.75	3144.63	958.48	*
WIPP-25 (ANNULUS)	MAG	3214.39	04/25/05	11:52	151.74	0.00	151.74	46.25	3062.85	933.50	*
H-03d/DL (PVC)	DL	3390.01	04/19/05	08:24	313.43	2.22	311.21	94.86	3076.80	938.42	*
WQSP-6a	DL	3363.80	04/18/05	07:25	165.95	0.25	166.70	50.81	3197.10	974.48	*
H-06c	RUS/SAL	3432.90	04/18/05	13:22	451.42	0.00	451.42	137.59	2981.48	908.76	*
CB-1(PIP)	B/C	3328.87	04/18/05	14:02	602.55	0.00	602.55	183.86	2726.32	830.98	*
DOE-2	B/C	3418.96	04/18/05	09:38	739.69	0.00	739.69	225.46	2679.27	818.84	*

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