

APPENDIX A: GROUNDWATER DISCHARGE AT KARST SPRING

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change	Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
01/19/89			2967.26	-0.05	07/28/89		<b>0.40</b>		
01/27/89		0.10			08/01/89	0.20			
02/14/89		0.10			08/05/89		0.10		
02/15/89		<b>0.50</b>			08/06/89	0.10	<b>0.70</b>		
02/16/89	<b>0.90</b>	<b>0.80</b>			08/07/89	0.10			
02/17/89			2967.56	<b>0.30</b>	08/08/09	0.30			
03/03/89		0.10			08/14/09	0.10	0.10		
03/04/89	0.10	0.10			08/15/09	<b>0.50</b>			
03/16/89			2967.45	-0.11	08/16/09	0.30			
03/20/89	0.30	0.10			08/18/89		<b>0.80</b>		
03/21/89	0.20	0.10			08/19/89		0.10		
03/22/89		0.10			08/20/89		0.10		
04/13/89			2967.31	-0.14	08/21/89		<b>1.20</b>		
04/28/89	0.10				08/22/89	0.20	0.10		
05/11/89	0.10				08/27/89	0.10	0.20		
05/23/89			2967.06	-0.25	08/28/89	<b>0.60</b>	0.10		
05/27/89	0.10				08/29/89	0.20			
06/08/89		0.10			08/31/89			2966.89	<b>0.60</b>
06/10/89	<b>0.60</b>	0.30			09/01/89		<b>0.40</b>		
06/13/89		0.20			09/12/89		<b>0.40</b>		
06/14/89	0.10				09/13/89	<b>1.40</b>			
06/19/89	<b>0.40</b>				09/14/89	0.20	0.10		
06/21/89		<b>0.70</b>	2966.73	-0.33	09/22/89		0.30		
06/23/89	<b>0.40</b>				09/27/89			2967.15	<b>0.26</b>
06/29/89	0.10	<b>1.40</b>			10/24/89			2967.52	<b>0.37</b>
06/30/89	0.10	<b>0.70</b>			10/26/89	0.10			
07/06/89	<b>0.40</b>				11/13/89			2967.83	<b>0.31</b>
07/11/89		0.10			12/12/89			2968.04	<b>0.21</b>
07/14/89		0.10			12/29/89	0.10	0.20		
07/18/89		0.20			12/30/89		0.10		
07/26/89			2966.29	-0.44					



Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change	Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
01/06/91	0.10	0.10			07/21/91	0.30	0.20		
01/09/91	0.20	0.20			07/24/91	0.10	0.40		
01/15/91			2967.85	0.45	07/25/91	2.50	0.20		
01/17/91	0.30	0.20			07/26/91		0.10		
01/18/91	0.40	0.20			07/29/91	0.30			
01/21/91	0.20	0.10			08/02/91		0.10		
01/30/91	0.10				08/03/91		0.10		
02/12/91			2967.83	-0.02	08/04/91	0.10			
02/18/91	0.10				08/09/91	0.50	0.70		
02/19/91	0.10	0.10			08/10/91	0.10	1.00		
02/28/91		0.20			08/11/91		0.30		
03/12/91			2967.75	-0.08	08/13/91			2967.77	-0.43
04/17/91			2968.24	0.49	08/15/91	0.10			
05/15/91			2968.08	-0.16	08/31/91		0.40		
05/20/91	0.10				09/03/91	0.20			
05/21/91	0.30				09/04/91	0.80	0.80		
05/22/91	0.10				09/05/91	0.40	0.30		
05/27/91	0.10				09/06/91		0.10		
05/28/91		0.10			09/09/91		0.90		
05/31/91	0.90				09/10/91	2.40	0.50		
06/05/91		0.20			09/12/91	2.00			
06/09/91	0.30				09/16/91	0.60	0.80		
06/10/91	0.20	0.10			09/17/91	0.60	0.30		
06/14/91		0.10			09/18/91	1.10	1.00		
06/17/91		0.10			09/19/91	0.20	0.30		
06/19/91			2968.14	0.06	09/20/91		0.10		
07/03/91		0.10			09/25/91			2968.82	1.05
07/04/91	1.50	0.70			10/15/91			2968.42	-0.40
07/11/91		0.10			11/11/91	0.10	0.10		
07/12/91	0.10	0.20			11/12/91	0.10			
07/13/91	0.80	0.70			11/14/91	0.10	0.20		
07/14/91	0.60				11/15/91	0.20			
07/15/91	1.30	0.10			11/16/91	0.10	0.10		
07/16/91			2968.20	0.06	11/21/91			2968.12	-0.30

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
12/10/91			2968.03	-0.11
12/11/91	0.60	0.60		
12/18/91	0.30	0.40		
12/19/91	0.10			
12/20/91	0.50	0.10		
12/21/91	1.10	2.00		
12/22/91	0.10			
12/25/91	0.70	0.60		
01/04/92	0.10			
01/06/92	0.10			
01/11/92	0.20	0.30		
01/12/92	0.10	0.10		
01/17/92		0.10		
01/18/92		0.10		
01/21/92		0.10		
01/26/92		0.20		
02/13/92	0.10			
01/15/92			2968.75	0.72
01/20/92	0.10			
01/26/92	0.20			
02/02/92		0.10		
02/03/92	0.10			
02/04/92	0.40	0.30		
02/08/92		0.10		
02/12/92			2968.60	-0.15
02/24/92	1.00	0.50		
03/03/92	0.10	0.10		
03/17/92			2968.19	-0.41
03/31/92	0.10	0.10		
04/05/92	0.20			
04/14/92	0.10		2968.16	-0.03

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
04/19/92	0.10	0.10		
04/27/92	0.10			
05/08/92	0.40	0.10		
05/09/92		0.20		
05/12/92			2967.98	-0.18
05/15/92	0.40	0.30		
05/17/92	0.50			
05/18/92	0.10			
05/20/92	0.50	0.10		
05/21/92		1.00		
05/22/92	0.40	0.40		
05/23/92	0.60	1.60		
05/24/92	0.50	0.30		
05/25/92		0.20		
05/26/92	0.10			
05/27/92	0.10			
05/30/92	0.20	0.60		
05/31/92		0.10		
06/01/92	0.80	0.50		
06/03/92	0.10			
06/04/92		0.10		
06/06/92		0.90		
06/07/92	0.90	0.20		
06/08/92		0.10		
06/17/92			2967.87	-0.11
06/20/92	0.40	3.10		
06/21/92	0.10			
06/26/92	0.10	0.30		
07/10/92		0.30		
07/11/92	0.20	0.10		
07/18/92	0.10			
07/22/92			2967.39	-0.48
07/26/92	0.70	1.40		

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
07/30/92	0.20			
07/31/92	0.10			
08/11/92			2967.28	-0.11
08/14/92	0.30			
08/21/92	0.30			
08/22/92	0.10			
08/26/92		0.10		
08/27/92	0.10			
08/29/92	0.30			
08/31/92	<b>2.60</b>	0.20		
09/07/92	0.10			
09/15/92	0.20			
09/21/92			2967.13	-0.15
10/12/92			2967.05	-0.08
10/28/92	0.10	0.20		
10/30/92		0.10		
11/17/92			2967.48	<b>0.43</b>
11/20/92	0.20	0.20		
11/21/92	0.10	0.20		
11/24/92	0.10			
12/05/92	0.30	0.10		
12/06/92			2967.87	<b>0.39</b>
12/08/92		0.10		
12/14/92		0.10		
12/31/92	0.20	0.30		
01/01/93	0.20	0.10		
01/07/93	0.10			
01/12/93			2967.57	-0.30
01/13/93	0.10			
01/18/93	0.10			
01/19/93	0.30	0.30		

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
01/29/93	0.20	0.10		
02/09/93			2966.92	-0.65
02/14/93		0.10		
02/28/93	<b>0.40</b>	0.20		
03/09/93			2966.84	-0.08
04/12/93			2966.84	0.00
04/13/93	0.10	0.10		
04/14/93	<b>0.50</b>	<b>0.60</b>		
04/16/93		0.10		
04/29/93		<b>0.80</b>		
05/10/93			2966.65	-0.19
05/19/93		0.10		
05/21/93	0.10			
06/10/93	0.10	0.20		
06/15/93			2966.81	<b>0.16</b>
06/17/93		0.10		
06/18/93	0.30	<b>0.60</b>		
06/21/93	<b>0.50</b>	0.30		
06/22/93		0.10		
06/29/93	0.10			
07/10/93		<b>1.70</b>		
07/11/93	<b>0.80</b>	0.10		
07/12/93	0.10	<b>0.70</b>		
07/13/93	0.10			
07/14/93	0.10		2966.94	<b>0.13</b>
07/15/93		0.10		
07/17/93		<b>0.40</b>		
07/18/93	0.10			
07/19/93	0.10			
07/25/93		0.20		
07/26/93		0.10		
08/04/93		0.30		
08/06/93	0.10	0.20		

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
08/07/93	0.20	<b>0.40</b>		
08/30/93	<b>0.80</b>	0.20		
08/31/93	0.30	0.10		
09/22/93			2966.48	-0.42
09/24/93		<b>0.40</b>		
10/12/93			2966.54	<b>0.06</b>
10/19/93	<b>0.70</b>			
10/20/93	0.10			
10/27/93	0.10			
10/28/93	0.10			
10/29/93		<b>0.50</b>		
11/08/93			2966.75	<b>0.21</b>
11/13/93		0.10		
11/15/93	0.30			
11/16/93	0.10			
12/06/93			2966.89	<b>0.14</b>
12/21/93		0.10		
01/10/94			2966.90	<b>0.01</b>
01/21/94		0.10		
01/29/94	0.10	0.10		
01/31/94	0.10			
02/14/94			2966.91	<b>0.01</b>
03/07/94			2967.00	<b>0.09</b>
03/08/94	0.10			
03/28/94	0.10			
04/11/94			2966.81	-0.19
04/21/94	0.10	0.20		
04/22/94		0.20		
04/23/94	0.10			
04/30/94		0.10		
05/09/94			2966.98	0.17
05/10/94	1.10			
05/11/94	0.10			

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
05/12/94	0.30			
05/17/94	0.10			
05/18/94	0.10			
05/19/94	0.20			
05/21/94	0.30			
05/22/94	0.10			
06/10/94	0.20			
06/13/94			2966.88	-0.10
06/14/94	0.20			
07/09/94	0.10	0.20		
07/11/94			2966.57	-0.31
07/20/94		0.30		
07/21/94	0.20	<b>0.60</b>		
07/30/94		0.10		
08/08/94			2966.31	-0.26
08/15/94	0.10			
08/20/94	<b>0.50</b>			
08/21/94	0.20	0.20		
08/30/94	<b>0.70</b>			
08/31/94	0.10			
09/04/94		0.10		
09/05/94		<b>0.50</b>		
09/06/94	0.30	0.10		
09/07/94		0.30		
09/12/94			2966.77	<b>0.46</b>
09/13/94		0.30		
10/07/94	0.30	0.10		
10/09/94		0.10		
10/11/94			2966.63	-0.14
10/15/94	0.20	0.10		
10/17/94		0.10		
10/18/94	0.20	0.20		
11/04/94		0.20		

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
11/07/94			2966.72	0.09
11/12/94		0.10		
11/21/94		0.30		
12/05/94			2966.71	-0.01
12/24/04	0.10	0.10		
01/05/95		0.10		
01/12/95		0.10		
01/16/95			2966.84	0.13
01/18/95		0.10		
01/20/95	0.20			
01/26/95		0.10		
01/29/95	0.10	0.20		
02/10/95		0.10		
02/14/95			2966.90	0.06
02/16/95	0.30	0.30		
03/06/95	0.20			
03/14/95			2966.91	0.01
04/04/95	0.10			
04/05/95		0.10		
04/10/95			2966.93	0.02
04/16/95	0.10			
04/30/95		0.10		
05/05/95	0.50	0.70		
05/09/95			2966.87	-0.06
05/15/95		0.10		
05/25/95	0.20			
05/26/95		0.40		
05/29/95	0.30			
05/30/95	0.10	0.10		
06/05/95			2966.85	-0.02
06/19/95	0.10			
06/21/95		0.40		

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
06/25/95		0.10		
06/26/95	0.10			
06/29/95	1.00	1.90		
06/30/95		0.10		
07/17/95		0.30		
07/18/95			2966.95	0.10
07/20/95	0.10			
07/21/95		0.10		
08/01/95	0.30	0.30		
08/02/95	0.10			
08/05/95		0.10		
08/14/95		0.30	2966.64	-0.31
08/15/95	0.10	0.10		
08/17/95		0.10		
09/05/95			2966.81	0.17
09/07/95	0.20			
09/08/95	0.10	0.60		
09/09/95	0.30	0.30		
09/10/95	1.00	0.40		
09/11/95		0.10		
09/12/95		0.20		
09/14/95	0.50	1.70		
09/15/95	0.60	0.60		
09/16/95	0.10	0.10		
09/28/95		0.10		
10/01/95	0.10			
10/02/95		0.30		
10/17/95			2966.89	0.08
10/31/95		0.10		
11/07/95			2966.75	-0.14
12/04/95			2966.60	-0.15
12/07/95		0.10		
12/18/95	0.30	0.20		
12/31/95	0.10	0.10		

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change	Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
01/01/96	0.50	0.40			08/03/96	0.20	0.30		
01/08/96			2966.66	0.06	08/04/96	0.40	0.10		
02/05/96			2966.55	-0.11	08/05/96	0.10	0.10		
03/11/96			2966.34	-0.21	08/07/96	0.10			
04/04/96		0.10			08/08/96		1.00		
04/05/96		0.70			08/11/96	0.30			
04/15/96			2966.70	0.36	08/13/96			2966.61	-0.05
05/14/96			2966.67	-0.03	08/16/96	0.10			
06/11/96	0.30		2966.50	-0.17	08/17/96	0.40	0.40		
06/12/96	0.70				08/19/96	0.10	0.10		
06/13/96	0.80				08/23/96		0.10		
06/14/96	0.20				08/24/96	0.90			
06/15/96	0.10				08/25/96	0.10			
06/22/96	0.30				08/26/96	1.80	1.50		
06/23/96	0.10				08/28/96	1.20	1.20		
06/24/96	0.30				08/31/96	0.90	0.10		
06/28/96	0.30				09/02/96	0.20			
07/03/96	0.10				09/03/96		0.10	2967.16	0.55
07/09/96	0.40				09/11/96	1.30	0.30		
07/10/96		0.20			09/12/96	0.40	0.40		
07/11/96		0.10			09/13/96	0.10			
07/13/96		0.20			09/14/96	0.10	0.20		
07/15/96	0.10	0.10	2966.66	0.16	10/14/96			2966.64	-0.52
07/16/96	0.20				10/21/96	0.10			
07/20/96		0.10			11/11/96			2966.48	-0.16
07/21/96		0.10			11/15/96	0.50			
07/25/96	0.40	0.30			11/28/96		0.40		
07/31/96		0.10			12/09/96			2966.53	0.05

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change	Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
01/04/97	0.10				06/26/97	0.40			
01/06/97	0.50	0.10			06/27/97	0.30	0.80		
01/07/97	0.10	0.10			07/04/97	0.20	2.10		
01/13/97			2966.51	-0.02	07/05/97		0.20		
02/10/97			2966.52	0.01	07/06/97	0.30	0.20		
02/12/97	1.60	0.80			07/08/97		1.30		
02/13/97	0.20	0.20			07/14/97			2967.36	0.12
02/20/97	0.10	0.10			07/16/97	0.10			
02/21/97	0.10				07/25/97		0.70		
02/24/97	0.20				07/27/97		0.10		
02/25/97		0.10			07/28/97		0.10		
02/26/97	0.10				07/29/97		0.10		
03/02/97		0.10			07/31/97		0.80		
03/10/97			2966.98	0.46	08/04/97	0.90			
03/27/97	0.10				08/05/97	0.10	0.40		
04/02/97	0.10				08/07/97	0.10	0.10		
04/03/97	0.30				08/11/97	1.80		2966.99	-0.37
04/10/97		0.10			08/12/97	0.10	1.10		
04/14/97			2966.95	-0.03	08/18/97	0.10			
04/18/97	0.10	0.20			08/22/97	0.20			
04/24/97	0.40	0.20			09/03/97	0.20	1.10		
04/25/97	0.30	0.40			09/10/97	0.10	0.20		
04/26/97	0.50	0.40			09/11/97	0.80			
05/06/97	0.30	0.50			09/15/97			2966.97	-0.02
05/08/97		0.60			09/21/97	0.30	0.50		
05/12/97			2967.02	0.07	09/22/97	0.40	1.10		
05/20/97	0.10				10/06/97		0.30		
05/21/97	1.10	0.50			10/07/97		1.00		
06/07/97	0.10	0.40			10/11/97		0.10		
06/09/97			2967.24	0.22	10/15/97			2967.39	0.42
06/11/97	0.30	0.80			10/22/97		0.30		
06/12/97	0.10				10/25/97		0.10		
06/14/97	0.20	0.20			11/10/97			2967.00	-0.39

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change	Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
11/11/97		0.20			08/10/98			2966.98	-0.08
11/12/97		0.20			08/13/98		0.10		
12/08/97			2967.10	0.10	08/20/98		0.30		
12/19/97		0.10			08/21/98		0.10		
12/20/97		0.80			08/28/98		0.10		
12/21/97		0.10			09/08/98			2966.77	-0.21
12/22/97		0.40			09/09/98		0.10		
12/23/97		0.30			10/12/98			2967.01	0.24
12/24/97		0.10			10/20/98		0.10		
12/25/97		0.30			10/21/98		0.10		
12/30/97		0.10			10/22/98		0.10		
					10/27/98		0.20		
					10/28/98		0.10		
					10/30/98		0.20		
01/12/98			2967.42	0.32	10/31/98		0.40		
02/04/98		0.10			11/06/98	0.10			
02/09/98			2967.33	-0.09	11/09/98			2967.22	0.21
03/10/98			2967.14	-0.19	11/29/98		0.10		
03/16/98		0.40			12/02/98	0.20			
03/17/98		0.10			12/03/98	0.10	0.10		
04/13/98			2967.24	0.10	12/07/98			2966.73	-0.49
05/11/98			2967.14	-0.10	12/10/98	0.10			
05/19/98		0.10			12/11/98		0.30		
06/08/98			2966.94	-0.20	12/18/98	0.10	0.10		
06/10/98		0.10			12/28/98	0.10			
06/11/98		0.10							
07/13/98		0.40	2967.06	0.12					
07/14/98		0.40							
07/15/98		0.30			01/01/99		0.10		
07/16/98		0.10			01/11/99			2966.78	0.05
07/21/98		0.90			01/28/99	0.50	0.30		
07/26/98		0.10			01/29/99	0.30	0.20		
08/05/99		0.40			02/08/99			2966.93	0.15
08/07/98		0.10							

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
03/07/99	0.10			
03/08/99			2966.84	-0.09
03/17/99	0.20			
03/19/99		0.10		
03/25/99		0.10		
03/26/99	0.30	0.30		
03/27/99		0.10		
04/12/99		<b>0.90</b>	2966.76	-0.08
04/13/99		0.10		
04/24/99		0.10		
04/30/99		0.30		
04/22/99	0.10			
04/24/99	0.20			
05/10/99			2966.85	<b>0.09</b>
05/21/99	0.20	0.20		
05/22/99	0.30	0.10		
05/23/99	<b>1.00</b>			
05/24/99		<b>0.80</b>		
05/26/99	0.10	0.10		
05/28/99	<b>1.50</b>	0.30		
05/29/99	0.20	0.20		
06/07/99	0.10		2966.99	<b>0.14</b>
06/08/99		<b>0.50</b>		
06/09/99		0.10		
06/13/99	0.30	0.10		
06/17/99	0.10	<b>0.60</b>		
06/19/99		0.10		
06/20/99	0.20	<b>0.60</b>		
06/21/99		0.10		
06/29/99	0.30			
07/02/99	0.10			
07/10/99	<b>1.30</b>	0.20		
07/14/99	<b>0.70</b>			

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
07/17/99		0.10		
07/19/99			2967.04	<b>0.05</b>
07/24/99		0.30		
07/25/99		0.10		
07/31/99		0.10		
08/04/99		0.10		
08/06/99		0.10		
08/07/99		0.30		
08/09/99			2966.94	-0.10
08/11/09		0.10		
08/24/99	<b>0.40</b>			
09/03/99	<b>0.60</b>	0.20		
09/06/99		0.10		
09/07/99			2967.03	<b>0.09</b>
09/18/99		0.20		
09/30/99	0.10			
10/04/99			2966.87	-0.16
10/17/99	0.20			
11/08/99			2966.68	-0.19
12/06/99			2966.62	-0.06
12/25/99	0.10			
01/07/00	0.10			
01/18/00			2966.76	<b>0.14</b>
02/14/00			2966.82	<b>0.06</b>
03/06/00			2966.83	<b>0.01</b>
03/16/00	0.10			
03/21/00		0.10		
03/22/00	0.10			
04/01/00	0.10	0.20		
04/02/00		0.10		
04/17/00			2966.92	<b>0.09</b>

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change	Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
05/03/00		0.60			10/22/00		0.10		
05/15/00			2966.77	-0.15	10/23/00	0.50			
06/02/00	0.30	0.90			10/24/00	0.10			
06/03/00	0.10				10/26/00	0.30			
06/04/00	0.10				10/28/00		0.40		
06/05/00	0.40				11/03/00	1.00	0.30		
06/07/00			2967.11	0.34	11/04/00	0.80	0.30		
06/11/00	0.10	1.20			11/05/00	0.30			
06/18/00	0.80	0.10			11/06/00	0.10		2967.66	0.50
06/19/00	1.10	2.60			11/07/00	1.00	0.40		
06/26/00	0.10				11/11/00		0.10		
06/28/00	0.60	1.00			11/18/00	0.30			
06/29/00		0.10			12/03/00	0.10	0.20		
06/30/00	0.10	0.10			12/04/00			2967.37	-0.29
07/08/00	0.10				12/13/00	0.10			
07/09/00	0.10				12/25/00	0.10			
07/11/00			2967.74	0.63	12/26/00		0.10		
08/08/00		0.10			12/27/00	0.10			
08/14/00			2967.17	-0.57					
08/29/00		0.60							
08/30/00	0.20				01/03/01	0.10			
08/31/00	0.10	1.30			01/08/01			2967.17	-0.20
09/12/00			2967.24	0.07	01/15/01	0.10			
10/07/00	0.10				01/16/01	0.10			
10/08/00	0.10				01/19/01		0.10		
10/09/00	0.80				01/25/01	0.10			
10/10/00			2967.16	-0.08	01/26/01	0.60			
10/11/00	0.10				01/27/01		0.20		
10/12/00	0.20	0.10			01/28/01		0.30		
10/15/00		0.10			02/07/01			2967.26	0.09
10/17/00	0.70	0.20			02/13/01		0.10		
10/20/00	0.30	0.10			02/27/01	0.30	0.60		
10/21/00	0.20	0.20			02/28/01	0.10			

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change	Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
03/02/01	0.20	0.20			09/24/01		0.10		
03/05/01		0.10			10/04/01		0.10		
03/06/01			2967.23	-0.03	10/08/01			2966.93	0.07
03/07/01	0.50	0.60			10/13/01		0.10		
03/17/01	0.10	0.20			11/09/01		0.10		
03/29/01	0.10	0.10			11/11/01	0.10	0.10		
04/04/01			2967.11	-0.12	11/12/01	0.10			
04/17/01		0.30			11/13/01			2966.75	-0.18
04/19/01		0.10			11/14/01		0.10		
04/29/01	0.50	0.30			11/15/01	0.30	0.20		
05/07/01			2967.06	-0.05	11/16/01	0.50	0.20		
05/11/01	0.50	0.70			11/19/01		0.10		
05/12/01		0.20			11/28/01	0.10	0.10		
06/04/01			2966.91	-0.15	11/29/01		0.10		
06/08/01	0.70				12/04/01			2967.06	0.31
06/09/01	0.10				12/13/01	0.20	0.10		
06/10/01	0.10								
06/13/01	0.10								
07/09/01			2966.60	-0.31					
07/16/01	0.20				01/04/02	0.10			
07/17/01		0.20			01/12/02	0.10			
07/18/01	0.10	0.10			01/14/02			2966.84	-0.22
07/19/01	0.10	0.10			01/30/02	0.10	0.30		
07/20/01	0.10	0.40			02/04/02	0.20	0.10		
07/29/01		0.40			02/05/02	0.40	0.40		
08/06/01			2967.01	0.41	02/06/02			2967.15	0.31
08/15/01	0.40				03/01/02		0.10		
08/26/01	0.10				03/11/02			2967.00	-0.15
09/04/01		0.10	2966.86	-0.15	03/18/02	0.20			
09/16/01	0.50	0.30			03/19/02	0.60	0.50		
09/17/01		0.10			03/29/02	0.10	0.70		
09/21/01	0.20				03/30/02	1.40	0.80		
09/22/01	0.10	0.30			04/09/02			2967.25	0.25

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change	Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
04/25/02		0.10			11/02/02	0.10			
04/26/02		0.10			11/05/02			2967.26	<b>0.24</b>
05/06/02			2967.29	<b>0.04</b>	11/08/02		0.10		
06/08/02		0.20			11/15/02	0.20	0.20		
06/12/02			2967.07	-0.22	11/16/02	0.10			
06/13/02		0.10			12/03/02		<b>0.60</b>	2967.20	-0.06
06/14/02		<b>0.80</b>			12/07/02		0.10		
06/19/02		0.30			12/24/02		0.10		
07/03/02		<b>0.80</b>							
07/04/02	<b>0.50</b>	<b>1.00</b>							
07/05/02	0.30				01/20/03			2967.09	-0.11
07/16/02			2967.10	<b>0.03</b>	02/08/03		0.10		
07/18/02	0.10				02/10/03			2967.04	-0.05
08/02/02	<b>1.00</b>	<b>1.90</b>			02/20/03	<b>0.80</b>	0.30		
08/12/02			2967.16	<b>0.06</b>	02/21/03	0.20	0.30		
08/19/02	0.20	0.30			02/26/03		0.10		
08/20/02	0.10				03/10/03			2967.07	<b>0.03</b>
08/22/02		0.10			03/14/03	0.10			
08/30/02	<b>0.80</b>				03/19/03	0.10	0.10		
09/10/02		0.10			03/21/03		0.10		
09/11/02			2967.07	-0.09	03/22/03		0.10		
09/12/02	0.10				03/28/03	0.10	0.10		
09/13/02	0.20	0.30			04/14/03			2967.12	<b>0.05</b>
09/15/02	<b>0.70</b>				05/12/03			2966.91	-0.21
10/05/02		0.10			05/19/03	0.10			
10/08/02	0.10	0.10	2967.02	-0.05	05/20/03		0.10		
10/13/02	0.20				05/25/03	<b>1.00</b>	<b>0.60</b>		
10/18/02	<b>0.50</b>				06/05/03	0.20	0.10		
10/24/02	0.10				06/09/03		<b>0.50</b>	2967.08	<b>0.17</b>
10/25/02	0.10				06/10/03	0.10	0.10		
10/26/02	<b>0.70</b>				06/15/03		0.10		
10/27/02	0.20				06/17/03	0.10			
10/28/02	0.10				06/19/03	0.10			

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
06/23/03		0.70		
06/29/03		0.40		
06/30/03		0.60		
07/07/03		0.60		
07/16/03			2967.00	-0.08
07/18/03		0.10		
07/23/03		1.20		
07/24/03	0.50	0.30		
07/29/03		0.20		
08/08/03		0.10		
08/09/03	0.20			
08/11/03			2967.07	0.07
08/13/03		0.10		
08/15/03		0.10		
09/08/03	0.10		2967.17	0.10
09/09/03		0.10		
09/11/03		0.10		
09/24/03	0.10	0.20		
09/25/03		0.10		
10/03/03		0.10		
10/04/03	0.20	0.10		
10/06/03			2967.18	0.01
10/08/03	0.60	0.40		
10/11/03	0.10			
10/12/03		1.40		
10/13/03	0.20			
10/24/03	0.10			
10/26/03		0.20		
11/03/03			2967.01	-0.17
11/06/03	0.10			
11/07/03	0.10			
11/10/03	0.10			

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
11/13/03		0.10		
11/14/03	0.10	0.20		
12/08/03			2966.86	-0.15
01/12/04			2966.78	-0.08
01/15/04	0.10			
01/16/04	0.10	0.10		
01/17/04		0.10		
01/25/04	0.10			
02/09/04			2966.82	0.04
02/12/04	0.20			
02/13/04	0.10			
02/14/04	0.10			
02/24/04	0.60			
02/29/04	0.10			
03/03/04	0.20	0.30		
03/04/04	0.30	0.20		
03/08/04			2967.19	0.37
03/11/04		0.10		
03/12/04		0.70		
03/14/04		0.30		
03/15/04		0.10		
04/02/04		0.20		
04/03/04		0.20		
04/04/04		2.00		
04/05/04		0.20		
04/08/04		0.20		
04/10/04		0.10		
04/11/04		0.20		
04/12/04			2967.68	0.49

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
04/14/04	0.10			
04/28/04		0.10		
05/10/04			2967.30	-0.38
05/27/04	0.30	0.20		
05/30/04		0.10		
05/31/04		0.20		
06/01/04		0.10		
06/07/04			2967.06	-0.24
06/16/04		0.10		
06/17/04	<b>0.40</b>			
06/18/04		<b>0.40</b>		
06/19/04	0.10			
06/23/04		0.10		
06/24/04	0.10	0.30		
06/26/04	1.00	0.10		
06/27/04		0.10		
06/28/04	0.10			
07/06/04			2967.02	-0.04
08/01/04		<b>1.20</b>		
08/04/04	0.10			
08/09/04			2966.97	-0.05
08/11/04	0.10			
09/01/04		<b>1.00</b>		
09/23/04			2967.21	<b>0.24</b>
10/01/04		<b>5.80</b>		
10/05/04	0.30			
10/06/04	0.10			
10/12/04			2967.92	<b>0.71</b>
10/13/04	0.10	0.10		
10/14/04		0.10		
10/19/04	0.10			
10/22/04		0.10		
11/01/04	0.50	<b>0.80</b>		

Date	Carlsbad Rainfall	WIPP Site Rainfall	WIPP-29 Level	WIPP-29 Change
11/03/04		0.10		
11/08/04			2967.47	-0.45
11/13/04	<b>0.50</b>	0.10		
11/14/04	<b>0.60</b>	<b>0.70</b>		
11/15/04	<b>1.70</b>	<b>1.50</b>		
11/16/04	0.20	0.30		
11/17/04		0.10		
11/22/04	<b>0.80</b>	<b>1.00</b>		
11/23/04	0.10	0.10		
11/28/04		0.10		
12/06/04	0.10			
12/07/04			2967.97	<b>0.50</b>
12/11/04		0.10		
12/22/04	0.20			
12/23/04	0.20	0.10		
12/28/04		0.10		

Date	Carlsbad Rainfall	WIPP Site Rainfall	Date	Carlsbad Rainfall	WIPP Site Rainfall	Date	Carlsbad Rainfall	WIPP Site Rainfall
01/01/05	0.10		07/27/05	0.20		07/15/06	0.10	
01/04/05	0.20		08/05/05	0.10		07/27/06	0.10	
01/26/05		0.10	08/08/05		0.10	07/28/06	0.10	
01/27/05	0.10		08/10/05	0.10		07/30/06	0.10	
02/01/05		0.10	08/13/05	0.10	<b>1.40</b>	08/01/06		<b>2.10</b>
02/02/05		0.10	08/14/05	<b>0.70</b>	<b>0.70</b>	08/04/06	<b>0.40</b>	0.10
02/05/05	<b>0.50</b>	0.10	08/15/05	0.10	0.20	08/11/06		0.10
02/06/05	0.10		08/19/05	0.30	<b>0.50</b>	08/12/06	0.30	
02/11/05	0.10		08/20/05	0.20	<b>1.20</b>	08/13/06		<b>1.50</b>
02/18/05	0.10		08/22/05	0.20		08/14/06	0.20	
02/24/05	<b>0.40</b>		08/24/05	0.30		08/15/06	0.10	<b>1.00</b>
02/25/05	0.20		08/28/05	0.20	0.30	08/16/06	<b>0.60</b>	0.30
02/27/05	0.10		08/29/05		0.10	08/17/06		0.10
03/01/05		<b>2.40</b>	09/04/05	0.10		08/18/06	0.10	0.10
03/08/05	0.10		09/05/05		0.10	08/20/06		0.10
03/15/05	0.30		09/11/05		0.30	08/22/06	0.20	0.10
03/26/05	0.20		10/05/05		<b>0.50</b>	08/31/06		0.10
04/17/05	0.10		10/06/05		<b>0.70</b>	09/01/06	<b>0.90</b>	<b>0.60</b>
04/18/05	0.10		10/09/05		<b>0.90</b>	09/02/06	<b>0.30</b>	<b>1.00</b>
05/01/05		<b>0.60</b>	10/15/05		0.30	09/03/06	<b>0.80</b>	<b>1.40</b>
05/06/05		0.30	11/27/05		0.10	09/04/06		<b>1.40</b>
05/07/05	0.20					09/12/06		<b>0.60</b>
05/15/05		<b>0.40</b>				09/23/06		0.10
05/16/05	<b>0.70</b>		02/23/06		0.20	10/09/06		<b>1.40</b>
05/26/05		<b>0.80</b>	03/04/06		0.10	10/11/06		0.10
05/27/05		<b>0.80</b>	03/19/06		<b>0.70</b>	10/14/06		0.20
05/28/05		<b>0.80</b>	03/28/06		0.10	10/15/06		<b>0.50</b>
05/29/05	<b>0.60</b>	0.10	05/16/06	0.10		10/18/06		0.10
06/06/05		0.10	06/01/06	0.10	<b>1.70</b>	10/19/06		0.10
06/07/05		<b>0.70</b>	06/22/06	<b>0.70</b>		12/19/06		<b>0.40</b>
06/13/05		0.10	06/23/06		0.30	12/20/06		0.10
06/28/05	0.10		06/25/06	<b>0.80</b>		12/29/06		0.10
07/15/05	0.30	0.30	06/26/06	0.10	0.30			
07/25/05	0.10							

Date	Carlsbad Rainfall	WIPP Site Rainfall	Date	Carlsbad Rainfall	WIPP Site Rainfall
01/02/07		0.10	07/04/07		0.10
01/19/07		0.30	07/06/07		0.20
01/20/07		0.50	07/11/07	0.40	0.20
01/23/07		0.30	07/12/07	0.10	
02/03/07		0.10	07/14/07		0.10
02/15/07	0.10		07/15/07		0.10
02/16/07	0.30		07/21/07		2.30
03/12/07		0.30	07/27/07		0.40
03/13/07	0.10		07/29/07	0.30	
03/15/07	0.10		07/30/07		0.50
03/21/07	0.10		07/31/07		0.40
03/22/07		0.10	08/02/07		0.20
03/23/07	2.50	1.70	08/03/07		0.20
03/25/07		0.60	08/21/07		0.10
03/28/07	0.20		09/07/07		0.30
04/01/07		0.10	09/09/07		0.10
04/08/07		0.10	09/10/07		1.50
04/09/07	0.10		09/20/07		0.80
04/29/07	0.40	0.60	09/21/07		0.20
05/02/07	0.30	0.50	09/24/07		0.20
05/08/07	1.40	0.80	09/26/07		0.40
05/09/07		0.50	09/29/07		0.70
05/10/07	0.10		11/22/07	0.10	
05/16/07	0.80	1.20	11/24/07	0.10	
05/18/07		0.10	11/25/07	0.20	
05/22/07	0.10		12/01/07		0.70
05/31/07		0.10	12/10/07		0.40
06/04/07	0.10	0.10	12/11/07		0.10
06/09/07	0.10				
06/10/07		0.10			
06/26/07		0.40			
06/28/07		0.30			

**NOTES:**

Water levels at WIPP-29 not reported after 2004.

WIPP site rainfall data for July, August and September 2004, February and April 2005, May and July 2006, and November 2007 were reconstructed from hydrographs in Beauheim (2008), pages 72-75.

Other rainfall data believed to be incomplete, according to the National Climatic Data Center (NCDC), include:

November 1994, March-May 1996, October-December 1997, January-October 1998, April-June 2002, December 2002, parts of March-September 2004, September-December 2005, January-April 2006, January-May 2006, July 2006, September-December 2006, January 2007, June 2007, August-September 2007, and December 2007 at Carlsbad Airport; and May 1991, May-June 1994, August 1994, June 1996, June 2001, and October 2002 at the WIPP site.

**KEY:** Rainfall reported in inches. Events of 1.00 inches or more in one or two days are shown in dark blue; other events of 0.4 to 0.9 inches in one day are shown in light blue. Water levels reported in feet. Monthly increases of 0.20 feet or more are shown in dark blue; smaller increases shown in light blue. Data reconstructed from hydrographs shown in red.