

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Alex Energy, Inc.	WV0092649	S-5084-86	001	2/28/2011	Iron, Total	Monthly	1.42	1.78	25%	28	37° 48' 47"	82° 6' 42"	Copperas Mine Fk
Alex Energy, Inc.	WV0092649	S-5084-86	021	6/30/2011	Total Suspended Solids	Monthly	35	49	40%	30	37° 49' 6"	82° 7' 19"	Copperas Mine Fk
Alex Energy, Inc.	WV0096563	U-3002-90	002	12/19/08	Aluminum, Total	Daily	0.14	3.72	2557%	1	38°18'58"	80°56'36"	Hutchinson Branch
Alex Energy, Inc.	WV0096563	U-3002-90	002	12/31/2008	Aluminum, Total	Monthly	0.08	3.72	4550%	31	38°18'58"	80°56'36"	Hutchinson Branch
Alex Energy, Inc.	WV0096563	U-3002-90	002	12/31/2008	Total Suspended Solids	Monthly	35	42	20%	31	38°18'58"	80°56'36"	Hutchinson Branch
Alex Energy, Inc.	WV0096563	U-3020-90	004	12/19/08	Aluminum, Total	Daily	0.14	0.3	114%	1	38°18'57"	80°57'3"	Hutchinson Branch
Alex Energy, Inc.	WV0096563	U-3020-90	004	12/31/2008	Aluminum, Total	Monthly	0.08	0.3	275%	31	38°18'57"	80°57'3"	Hutchinson Branch
Alex Energy, Inc.	WV0099759	S-63-85	001	7/30/08	Aluminum, Total	Daily	0.14	0.61	336%	1	38°17'19"	81°0'40"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	001	9/30/2008	Aluminum, Total	Monthly	0.08	0.11	38%	30	38°17'19"	81°0'40"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	001	6/19/09	Total Suspended Solids	Daily	70	83	19%	1	38°17'19"	81°0'40"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	001	6/30/2009	Total Suspended Solids	Monthly	35	43.5	24%	30	38°17'19"	81°0'40"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	008	8/15/08	Aluminum, Total	Daily	0.14	0.18	29%	1	38°17'17"	81°1'29"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	008	8/31/2008	Aluminum, Total	Monthly	0.08	0.14	75%	31	38°17'17"	81°1'29"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	008	9/24/08	Aluminum, Total	Daily	0.14	0.33	136%	1	38°17'17"	81°1'29"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	008	9/26/08	Aluminum, Total	Daily	0.14	0.28	100%	1	38°17'17"	81°1'29"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	008	9/30/2008	Aluminum, Total	Monthly	0.08	0.305	281%	30	38°17'17"	81°1'29"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	008	10/20/08	Aluminum, Total	Daily	0.14	0.15	7%	1	38°17'17"	81°1'29"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	008	10/31/2008	Aluminum, Total	Monthly	0.08	0.12	50%	31	38°17'17"	81°1'29"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	008	11/26/08	Aluminum, Total	Daily	0.14	0.22	57%	1	38°17'17"	81°1'29"	Right Fk/Line Ck
Alex Energy, Inc.	WV0099759	S-63-85	008	11/30/2008	Aluminum, Total	Monthly	0.08	0.13	63%	30	38°17'17"	81°1'29"	Right Fk/Line Ck
Alex Energy, Inc.	WV1001418	S-3087-87	002	12/31/2008	Aluminum, Total	Monthly	0.08	0.245	206%	31	38°17'21"	81°0'21"	Tate Rn
Alex Energy, Inc.	WV1001418	S-3087-87	002	2/18/09	Aluminum, Total	Daily	0.14	0.21	50%	1	38°17'21"	81°0'21"	Tate Rn
Alex Energy, Inc.	WV1001418	S-3087-87	002	2/27/09	Aluminum, Total	Daily	0.14	0.27	93%	1	38°17'21"	81°0'21"	Tate Rn
Alex Energy, Inc.	WV1001418	S-3087-87	002	2/28/2009	Aluminum, Total	Monthly	0.08	0.24	200%	28	38°17'21"	81°0'21"	Tate Rn
Alex Energy, Inc.	WV1001418	S-3087-87	002	3/30/09	Aluminum, Total	Daily	0.14	0.21	50%	1	38°17'21"	81°0'21"	Tate Rn
Alex Energy, Inc.	WV1001418	S-3087-87	002	3/31/2009	Aluminum, Total	Monthly	0.08	0.16	100%	31	38°17'21"	81°0'21"	Tate Rn
Alex Energy, Inc.	WV1001418	S-3087-87	002	4/7/09	Aluminum, Total	Daily	0.14	0.22	57%	1	38°17'21"	81°0'21"	Tate Rn
Alex Energy, Inc.	WV1001418	S-3087-87	002	4/30/2009	Aluminum, Total	Monthly	0.08	0.175	119%	30	38°17'21"	81°0'21"	Tate Rn
Alex Energy, Inc.	WV1001418	S-3087-87	002	5/9/09	Aluminum, Total	Daily	0.14	0.22	57%	1	38°17'21"	81°0'21"	Tate Rn
Alex Energy, Inc.	WV1001418	S-3087-87	002	5/31/2009	Aluminum, Total	Monthly	0.08	0.15	88%	31	38°17'21"	81°0'21"	Tate Rn
Alex Energy, Inc.	WV1007939	S-5017-96	002	6/20/2011	Total Suspended Solids	Daily	70.0000	76	9%	1	37° 49' 43"	82° 8' 2"	Copperas Mine Fk
Alex Energy, Inc.	WV1007939		006	7/31/08	Aluminum, Total	Daily	0.75	1.002	34%	1	37°52'31"	82°18'23"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939		006	7/31/2008	Aluminum, Total	Monthly	0.43	1.002	133%	31	37°52'31"	82°18'23"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939		019	5/31/08	Aluminum, Total	Daily	0.75	1.2	60%	1	37°53'26"	82°18'14"	Laurel Fork/Pigeon Creek
Alex Energy, Inc.	WV1007939		019	5/31/2008	Aluminum, Total	Monthly	0.43	1.2	179%	31	37°53'26"	82°18'14"	Laurel Fork/Pigeon Creek
Alex Energy, Inc.	WV1007939	S-5017-96	020	6/30/09	Aluminum, Total	Daily	0.75	2.1	180%	1	37°53'30"	82°18'20"	Laurel Fork/Pigeon Creek
Alex Energy, Inc.	WV1007939	S-5017-96	020	6/30/2009	Aluminum, Total	Monthly	0.43	2.1	388%	30	37°53'30"	82°18'20"	Laurel Fork/Pigeon Creek
Alex Energy, Inc.	WV1007939	S-5017-96	020	4/30/2011	Aluminum, Total	Monthly	0.43	0.458	7%	30	37°53'30"	82°18'20"	Laurel Fork/Pigeon Creek
Alex Energy, Inc.	WV1007939	S-5017-96	020	2/29/2012	Aluminum, Total	Monthly	0.43	0.652	52%	28	37°53'30"	82°18'20"	Laurel Fork/Pigeon Creek
Alex Energy, Inc.	WV1007939	S-5017-96	021	2/14/08	Aluminum, Total	Daily	0.75	1.1	47%	1	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	2/28/2008	Aluminum, Total	Monthly	0.43	1.1	156%	28	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	3/31/2008	Aluminum, Total	Monthly	0.43	0.538	25%	31	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	6/19/08	pH	Daily	6	5.5	8%	1	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	7/31/08	pH	Daily	6	5.8	3%	1	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Alex Energy, Inc.	WV1007939	S-5017-96	021	7/31/08	Aluminum, Total	Monthly	0.75	1.8	140%	1	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	7/31/2008	Aluminum, Total	Monthly	0.43	1.8	319%	31	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	8/5/08	pH	Daily	6	5.2	13%	1	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	8/31/2008	Aluminum, Total	Monthly	0.43	0.524	22%	31	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	11/26/08	Aluminum, Total	Daily	0.75	1.106	47%	1	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	11/26/08	pH	Daily	6	5.2	13%	1	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	11/30/2008	Aluminum, Total	Monthly	0.43	1.106	157%	30	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	3/31/11	pH	Daily	6	5.5	8%	1	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	3/31/11	Aluminum, Total	Daily	0.75	1.2	60%	1	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1007939	S-5017-96	021	3/31/2011	Aluminum, Total	Monthly	0.43	0.8505	98%	31	37°53'35"	82°18'26"	Laurel Fk/Pigeon Ck
Alex Energy, Inc.	WV1008277	S-5053-89	002	3/31/2009	Iron, Total	Monthly	1.42	2.21	56%	31	37° 47' 36"	82°06' 39"	Rothwell Br/Whitman Creek
Alex Energy, Inc.	WV1008277	S-5053-89	003	7/31/08	Total Suspended Solids	Daily	70	510	629%	1	37°479"	82°421"	Whitman Creek
Alex Energy, Inc.	WV1008277	S-5053-89	003	7/31/2008	Total Suspended Solids	Monthly	35	264	654%	31	37°479"	82°421"	Whitman Creek
Alex Energy, Inc.	WV1008277	S-5053-89	003	7/31/08	Iron, Total	Daily	2.46	4.54	85%	1	37°479"	82°421"	Whitman Creek
Alex Energy, Inc.	WV1008277	S-5053-89	003	7/31/2008	Iron, Total	Monthly	1.42	2.42	70%	31	37°479"	82°421"	Whitman Creek
Alex Energy, Inc.	WV1008285	S505489	003	12/14/2012	Iron, Total	Daily	2.46	2.98	21.14%	1	37° 47' 19"	82° 4' 49"	Whitman Ck
Alex Energy, Inc.	WV1012401	S-3013-91	007	2/28/2008	Manganese, Total	Monthly	2	2.6	30%	28	38° 19' 9"	81° 0' 10"	Robinson Fk
Alex Energy, Inc.	WV1012401	S301391	007	6/30/2008	Manganese, Total	Monthly	2	3.045	52%	30	38°19'9"	81°0'10"	Robinson Ck
Alex Energy, Inc.	WV1012886		019	7/31/08	pH	Daily	6	5.65	6%	1	38°16'52"	81°1'40"	Right Fk/Line Ck
Alex Energy, Inc.	WV1014951		001	1/31/10	Aluminum, Total	Daily	0.99	1.14	15%	1	37° 58' 4"	81° 21' 23"	Fulton Ck
Alex Energy, Inc.	WV1014951		001	1/31/2010	Aluminum, Total	Monthly	0.57	0.81	42%	31	37° 58' 4"	81° 21' 23"	Fulton Ck
Alex Energy, Inc.	WV1014951	S302794	034	12/1/2012	Aluminum, Total	Monthly	0.6900	0.7400	7.25%	31	37° 57' 29"	81° 20' 36"	Left Fk/Whiteoak Ck
Alex Energy, Inc.	WV1015257	O-6011-86	010	12/31/2011	Total Suspended Solids	Monthly	35	37	6%	31	38-00-57	81-23-56	Cabin Creek
Alex Energy, Inc.	WV1015320	U-3001-96	001	1/31/2008	Aluminum, Total	Monthly	0.43	0.455	6%	31	38° 18' 20"	80° 58' 0"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-95	001	5/23/08	Aluminum, Total	Daily	0.75	0.77	3%	1	38°18'20"	80°58'0"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	001	5/31/2008	Aluminum, Total	Monthly	0.43	0.55	28%	31	38°18'20"	80°58'0"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	001	11/30/2008	Aluminum, Total	Monthly	0.43	1.12	160%	30	38°18'20"	80°58'0"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	001	11/30/08	Aluminum, Total	Daily	0.75	1.12	49%	1	38°18'20"	80°58'0"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	001	12/17/08	Aluminum, Total	Daily	0.75	0.88	17%	1	38°18'20"	80°58'0"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	001	12/31/2008	Aluminum, Total	Monthly	0.43	0.5167	20%	31	38°18'20"	80°58'0"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	001	2/18/09	Aluminum, Total	Daily	0.75	0.84	12%	1	38°18'20"	80°58'0"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	001	2/28/2009	Aluminum, Total	Monthly	0.43	0.51	19%	28	38°18'20"	80°58'0"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	001	4/30/2009	Aluminum, Total	Monthly	0.43	0.725	69%	30	38°18'20"	80°58'0"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	001	5/9/09	Aluminum, Total	Daily	0.75	1.08	44%	1	38°18'20"	80°58'0"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-95	002	4/29/08	Aluminum, Total	Daily	0.75	0.77	3%	1	38°18'24"	80°58'1"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	002	4/30/2008	Aluminum, Total	Monthly	0.43	0.465	8%	30	38°18'24"	80°58'1"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	002	4/30/2008	Aluminum, Total	Monthly	0.43	0.465	8%	30	38° 18' 24"	80° 58' 1"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	002	12/17/08	Total Suspended Solids	Daily	70	99	41%	1	38°18'24"	80°58'1"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	002	4/30/2009	Aluminum, Total	Monthly	0.43	0.525	22%	30	38°18'24"	80°58'1"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	002	5/9/09	Aluminum, Total	Daily	0.75	0.87	16%	1	38°18'24"	80°58'1"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	002	5/26/09	Total Suspended Solids	Daily	70	158	126%	1	38°18'24"	80°58'1"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015320	U-3001-96	002	5/31/2009	Total Suspended Solids	Monthly	35	35.8	2%	31	38°18'24"	80°58'1"	Jones Br/Peters Ck
Alex Energy, Inc.	WV1015362		001	7/31/10	Aluminum, Total	Daily	0.14	0.24	71%	1	38°20'13"	81°0'12"	Robinson Ck
Alex Energy, Inc.	WV1015362		001	7/31/2010	Aluminum, Total	Monthly	0.08	0.19	138%	31	38°20'13"	81°0'12"	Robinson Ck
Alex Energy, Inc.	WV1015362		002	7/31/10	Aluminum, Total	Daily	0.14	0.24	71%	1	38°19'26"	80°59'45"	Robinson Ck
Alex Energy, Inc.	WV1015362		002	7/31/2010	Aluminum, Total	Monthly	0.08	0.24	200%	31	38°19'26"	80°59'45"	Robinson Ck
Alex Energy, Inc.	WV1015362		003	7/31/10	Aluminum, Total	Daily	0.14	0.37	164%	1	38°19'22"	81°0'59"	Robinson Ck
Alex Energy, Inc.	WV1015362		003	7/31/2010	Aluminum, Total	Monthly	0.08	0.315	294%	31	38°19'22"	81°0'59"	Robinson Ck
Alex Energy, Inc.	WV1015362	S-3005-98	008	2/24/10	Aluminum, Total	Daily	1.12	1.23	10%	1	38°19'47"	81°1'3"	Twentymile Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Alex Energy, Inc.	WV1015362	S-3005-98	008	2/28/2010	Manganese, Total	Monthly	2	2.3333	17%	28	38°19'47"	81°1'3"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3005-98	008	3/31/2010	Manganese, Total	Monthly	2	2.2067	10%	31	38°19'47"	81°1'3"	Twentymile Ck
Alex Energy, Inc.	WV1015362		012	7/31/2010	Aluminum, Total	Monthly	0.08	0.085	6%	31	38°20'16"	80°59'27"	Spruce Rn/Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3005-98	013	3/24/10	Manganese, Total	Daily	4	12.55	214%	1	38°20'51"	80°58'31"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3005-98	013	3/31/2010	Manganese, Total	Monthly	2	12.55	528%	31	38°20'51"	80°58'31"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3005-98	013	3/31/2010	Aluminum, Total	Monthly	0.65	0.79	22%	31	38°20'51"	80°58'31"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3005-98	013	4/17/10	Manganese, Total	Daily	4	21.73	443%	1	38°20'51"	80°58'31"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3005-98	013	4/17/10	Aluminum, Total	Daily	1.12	1.51	35%	1	38°20'51"	80°58'31"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3005-98	013	4/29/10	Manganese, Total	Daily	4	9.73	143%	1	38°20'51"	80°58'31"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3005-98	013	4/30/2010	Manganese, Total	Monthly	2	15.73	687%	30	38°20'51"	80°58'31"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3005-98	013	4/30/2010	Aluminum, Total	Monthly	0.65	1.005	55%	30	38°20'51"	80°58'31"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3005-98	013	12/17/2011	Aluminum, Total	Daily	1.1200	2.02	80%	1	38°20'51"	80°58'31"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3005-98	026	4/29/10	Manganese, Total	Daily	4	4.21	5%	1	38°20'34"	80°57'48"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	026	4/29/10	Iron, Total	Daily	0.82	0.85	4%	1	38°20'34"	80°57'48"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	026	4/30/2010	Manganese, Total	Monthly	2	4.21	111%	30	38°20'34"	80°57'48"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	026	4/30/2010	Iron, Total	Monthly	0.47	0.85	81%	30	38°20'34"	80°57'48"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	2/24/10	Iron, Total	Daily	0.82	2.35	187%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	2/25/10	Iron, Total	Daily	0.82	2.43	196%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	2/26/10	Iron, Total	Daily	0.82	3.32	305%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	2/28/2010	Manganese, Total	Monthly	2	2.9933	50%	28	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	2/28/2010	Iron, Total	Monthly	0.47	2.7	474%	28	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	3/6/10	Manganese, Total	Daily	4	4.52	13%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	3/6/10	Iron, Total	Daily	0.82	3	266%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	3/24/10	Manganese, Total	Daily	4	6.47	62%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	3/24/10	Iron, Total	Daily	0.82	2.14	161%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	3/31/2010	Manganese, Total	Monthly	2	5.495	175%	31	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	3/31/2010	Iron, Total	Monthly	0.47	2.57	447%	31	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	4/17/10	Iron, Total	Daily	0.82	10.45	1174%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	4/17/10	Manganese, Total	Daily	4	12.34	209%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	4/29/10	Manganese, Total	Daily	4	8.07	102%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	4/29/10	Iron, Total	Daily	0.82	3.02	268%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	4/30/2010	Iron, Total	Monthly	0.47	6.735	1333%	30	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	4/30/2010	Manganese, Total	Monthly	2	10.205	410%	30	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	7/31/10	Aluminum, Total	Daily	0.14	0.33	136%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	7/31/2010	Aluminum, Total	Monthly	0.08	0.33	313%	31	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	4/30/2011	Manganese, Total	Monthly	2	2.34	17%	30	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3005-98	029	1/13/2012	Manganese, Total	Daily	4.0000	4.08	2%	1	38°20'6"	80°58'8"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S300598	035	10/17/11	Manganese, Total	Daily	3.4700	7.1	105%	1	38° 19' 44"	80° 59' 31"	Spruce Rn/Twentymile Ck
Alex Energy, Inc.	WV1015362	S300598	035	10/31/2011	Manganese, Total	Monthly	2	2.164	8%	31	38° 19' 44"	80° 59' 31"	Spruce Rn/Twentymile Ck
Alex Energy, Inc.	WV1015362	S300598	035	12/19/11	Manganese, Total	Daily	3.4700	4.04	16%	1	38° 19' 44"	80° 59' 31"	Spruce Rn/Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3018-06	051	2/28/2011	Manganese, Total	Monthly	2	2.285	14%	28	38° 20' 53"	80° 58' 10"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3018-06	051	10/31/2011	Manganese, Total	Monthly	2	2.02	1%	31	38° 20' 53"	80° 58' 10"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3018-06	052	5/31/2011	Manganese, Total	Monthly	2	2.22	11%	31	38° 20' 54"	80° 58' 5"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3018-06	052	10/22/11	Manganese, Total	Daily	4.0000	4.05	1%	1	38° 20' 54"	80° 58' 5"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3018-06	052	10/31/2011	Manganese, Total	Monthly	2	2.044	2%	31	38° 20' 54"	80° 58' 5"	Twentymile Ck
Alex Energy, Inc.	WV1015362	S-3018-06	056	3/31/10	Aluminum, Total	Daily	0.2	0.34	70%	1	38°20'14"	80°57'57"	Laurel Rn/Rader Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Alex Energy, Inc.	WV1015362	S-3018-06	056	3/31/2010	Aluminum, Total	Monthly	0.12	0.34	183%	31	38°20'14"	80°57'57"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3018-06	056	4/30/10	Aluminum, Total	Daily	0.2	0.21	5%	1	38°20'14"	80°57'57"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3018-06	056	4/30/2010	Aluminum, Total	Monthly	0.12	0.185	54%	30	38°20'14"	80°57'57"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3018-05	056	6/14/10	Iron, Total	Daily	0.66	1.03	56%	1	38°20'14"	80°57'57"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3018-06	056	6/30/2010	Iron, Total	Monthly	0.38	0.3967	4%	30	38°20'14"	80°57'57"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3018-06	056	7/31/2010	Aluminum, Total	Monthly	0.12	0.13	8%	31	38°20'14"	80°57'57"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3018-06	056	2/18/11	Aluminum, Total	Daily	0.2	1.7	750%	1	38°20'14"	80°57'57"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3018-06	056	2/28/2011	Aluminum, Total	Monthly	0.12	0.6867	472%	28	38°20'14"	80°57'57"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3018-06	056	3/31/11	Aluminum, Total	Daily	0.2	0.48	140%	1	38°20'14"	80°57'57"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015362	S-3018-06	056	3/31/2011	Aluminum, Total	Monthly	0.12	0.27	125%	31	38°20'14"	80°57'57"	Laurel Rn/Rader Fk
Alex Energy, Inc.	WV1015371		401	3/31/2010	BOD, 5-Day 20 Deg.C	Monthly	0.06	0.076264	27%	31	38° 17' 47"	80° 59' 25"	Jerry Fk/Peters Ck
Alex Energy, Inc.	WV1015371		401	3/31/2010	BOD, 5-Day 20 Deg.C	Monthly	5	6.35	27%	31	38° 17' 47"	80° 59' 25"	Jerry Fk/Peters Ck
Alex Energy, Inc.	WV1015371		401	4/30/2010	BOD, 5-Day 20 Deg.C	Monthly	0.06	0.063653	6%	30	38° 17' 47"	80° 59' 25"	Jerry Fk/Peters Ck
Alex Energy, Inc.	WV1015371		401	4/30/2010	BOD, 5-Day 20 Deg.C	Monthly	5	5.3	6%	30	38° 17' 47"	80° 59' 25"	Jerry Fk/Peters Ck
Alex Energy, Inc.	WV1019091	S-3001-99	006	1/30/08	Aluminum, Total	Daily	0.72	1.5	108%	1	38° 18' 23"	81° 3' 12"	Hardway Br
Alex Energy, Inc.	WV1019091	S-3001-99	006	1/31/2008	Aluminum, Total	Monthly	0.41	0.845	106%	31	38° 18' 23"	81° 3' 12"	Hardway Br
Alex Energy, Inc.	WV1019163	S-3012-99	002	5/31/09	Aluminum, Total	Daily	0.75	1.29	72%	1	37°50'45"	81°30'23"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	002	5/31/2009	Aluminum, Total	Monthly	0.43	0.685	59%	31	37°50'45"	81°30'23"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	002	10/31/11	Aluminum, Total	Daily	0.7500	0.96	28%	1	37°50'45"	81°30'23"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	002	10/31/2011	Aluminum, Total	Monthly	0.43	0.625	45%	31	37°50'45"	81°30'23"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	007	5/11/2012	Total Suspended Solids	Daily	70.0000	105	50%	1	37° 50' 52"	81° 31' 45"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	007	5/11/2012	Aluminum, Total	Daily	0.7500	0.92	23%	1	37° 50' 52"	81° 31' 45"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	007	5/31/2012	Total Suspended Solids	Monthly	35	105	200%	31	37° 50' 52"	81° 31' 45"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	007	5/31/2012	Aluminum, Total	Monthly	0.43	0.92	114%	31	37° 50' 52"	81° 31' 45"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	007	5/31/2012	Iron, Total	Monthly	1.13	1.15	2%	31	37° 50' 52"	81° 31' 45"	Hazy Ck
Alex Energy, Inc.	WV1019163	S301299	007	12/1/2012	Total Suspended Solids	Monthly	35.0000	122.0000	248.57%	31	37° 50' 52"	81° 31' 45"	Hazy Ck
Alex Energy, Inc.	WV1019163	S301299	007	12/1/2012	Aluminum, Total	Monthly	0.4300	0.4600	6.98%	31	37° 50' 52"	81° 31' 45"	Hazy Ck
Alex Energy, Inc.	WV1019163	S301299	007	12/28/2012	Total Suspended Solids	Daily	35.0000	122.0000	248.57%	1	37° 50' 52"	81° 31' 45"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	023	7/31/2009	Total Suspended Solids	Monthly	35	43	23%	31	37°51'40"	81°30'19"	Shumate Ck
Alex Energy, Inc.	WV1019163	S-3012-99	026	5/13/10	pH	Daily	6	4.17	31%	1	37°50'35"	81°30'16"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	026	5/13/10	Aluminum, Total	Daily	0.75	1.86	148%	1	37°50'35"	81°30'16"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	026	5/13/10	Manganese, Total	Daily	3.47	3.83	10%	1	37°50'35"	81°30'16"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	026	5/9/2011	Aluminum, Total	Daily	0.7500	1.18	57%	1	37°50'35"	81°30'16"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	026	10/17/11	Aluminum, Total	Daily	0.7500	1.44	92%	1	37°50'35"	81°30'16"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	026	10/31/2011	Aluminum, Total	Monthly	0.43	0.78	81%	31	37°50'35"	81°30'16"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	029	3/8/11	Aluminum, Total	Daily	0.75	0.83	11%	1	37° 51' 4"	81° 31' 52"	Hazy Ck
Alex Energy, Inc.	WV1019163	S-3012-99	029	5/9/2011	Aluminum, Total	Daily	0.7500	0.77	3%	1	37° 51' 4"	81° 31' 52"	Hazy Ck
Alex Energy, Inc.	WV1019252	S-3022-99	001	6/14/10	Aluminum, Total	Daily	0.75	1.2	60%	1	37°59'35"	81°22'24"	Cabin Ck
Alex Energy, Inc.	WV1019252	S-3022-99	001	8/25/10	Aluminum, Total	Daily	0.75	1.71	128%	1	37°59'35"	81°22'24"	Cabin Ck
Alex Energy, Inc.	WV1019252	S-3022-99	001	8/31/2010	Aluminum, Total	Monthly	0.43	0.492	14%	31	37°59'35"	81°22'24"	Cabin Ck
Alex Energy, Inc.	WV1019252	S-3022-99	003	5/9/08	Aluminum, Total	Daily	0.75	1	33%	1	37°58'57"	81°22'15"	Cabin Ck
Alex Energy, Inc.	WV1019252	S-3022-99	003	5/31/2008	Aluminum, Total	Monthly	0.43	0.56	30%	31	37°58'57"	81°22'15"	Cabin Ck
Alex Energy, Inc.	WV1019422	S-3001-01	018	5/31/2010	Aluminum, Total	Monthly	0.43	0.49	14%	31	37°58'22"	81°23'59"	Long Br/Fifteenmile Fk
Alex Energy, Inc.	WV1019422	S-3001-01	018	7/22/10	Aluminum, Total	Daily	0.75	1.53	104%	1	37°58'22"	81°23'59"	Long Br/Fifteenmile Fk
Alex Energy, Inc.	WV1019422	S-3001-01	018	7/31/2010	Aluminum, Total	Monthly	0.43	0.608	41%	31	37°58'22"	81°23'59"	Long Br/Fifteenmile Fk
Alex Energy, Inc.	WV1019422	S-3001-01	018	3/16/11	Aluminum, Total	Daily	0.75	0.97	29%	1	37°58'22"	81°23'59"	Long Br/Fifteenmile Fk
Alex Energy, Inc.	WV1021761	U-3008-04	001	7/31/2008	Aluminum, Total	Monthly	0.08	0.14	75%	31	38°16'59"	81°8'71"	Twentymile Ck
Alex Energy, Inc.	WV1021761	U-3008-04	001	2/15/10	Aluminum, Total	Daily	0.14	0.3	114%	1	38°16'59"	81°8'71"	Twentymile Ck
Alex Energy, Inc.	WV1021761	U-3008-04	001	2/28/2010	Aluminum, Total	Monthly	0.08	0.3	275%	28	38°16'59"	81°8'71"	Twentymile Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	3/24/10	Manganese, Total	Daily	4	6.59	65%	1	38°17'32"	81°2'30"	Line Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Alex Energy, Inc.	WV1021907	S-3014-05	009	3/24/10	Aluminum, Total	Daily	0.4	0.85	113%	1	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	3/31/2010	Manganese, Total	Monthly	2	6.59	230%	31	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	3/31/2010	Aluminum, Total	Monthly	0.23	0.85	270%	31	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	4/29/10	Manganese, Total	Daily	4	4.75	19%	1	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	4/30/2010	Manganese, Total	Monthly	2	4.75	138%	30	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	9/29/10	Manganese, Total	Daily	4	4.68	17%	1	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	9/30/2010	Manganese, Total	Monthly	2	4.53	127%	30	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	9/30/2010	Aluminum, Total	Monthly	0.23	0.255	11%	30	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	9/30/10	Manganese, Total	Daily	4	4.38	10%	1	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	9/30/2010	Iron, Total	Monthly	0.69	0.85	23%	30	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	1/19/11	Aluminum, Total	Daily	0.4	0.66	65%	1	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	1/30/11	Aluminum, Total	Daily	0.4	0.67	68%	1	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	009	1/31/2011	Aluminum, Total	Monthly	0.23	0.29	26%	31	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S301405	009	3/30/2013	Total Aluminum (1105)	Daily	0.4000	0.8500	112.50%	1	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S301405	009	3/31/2013	Total Aluminum (1105)	Monthly	0.2300	0.4550	97.83%	31	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S301405	009	3/31/2013	Total Manganese (1055)	Monthly	2.0000	2.3450	17.25%	31	38°17'32"	81°2'30"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	010	11/30/2011	Manganese, Total	Monthly	2	2.415	21%	30	38-17-19	81-02-21	Line Creek
Alex Energy, Inc.	WV1021907	S-3014-05	010	12/20/11	Aluminum, Total	Daily	0.4000	0.45	13%	1	38-17-19	81-02-21	Line Creek
Alex Energy, Inc.	WV1021907	S-3014-05	010	12/20/11	Total Suspended Solids	Daily	70.0000	74	6%	1	38-17-19	81-02-21	Line Creek
Alex Energy, Inc.	WV1021907	S301405	010	1/1/2013	Aluminum, Total	Monthly	0.2300	0.4575	98.91%	31	38-17-19	81-02-21	Line Creek
Alex Energy, Inc.	WV1021907	S301405	010	1/19/2013	Manganese, Total	Daily	4.0000	5.7100	42.75%	1	38-17-19	81-02-21	Line Creek
Alex Energy, Inc.	WV1021907	S301405	010	1/19/2013	Aluminum, Total	Daily	0.4000	1.7000	325.00%	1	38-17-19	81-02-21	Line Creek
Alex Energy, Inc.	WV1021907	S-3014-05	011	3/23/11	Manganese, Total	Daily	4	8.67	117%	1	38° 17' 9"	81° 2' 24"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	011	3/23/11	Aluminum, Total	Daily	0.4	0.67	68%	1	38° 17' 9"	81° 2' 24"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	011	3/31/2011	Manganese, Total	Monthly	2	8.67	334%	31	38° 17' 9"	81° 2' 24"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	011	3/31/2011	Aluminum, Total	Monthly	0.23	0.25	9%	31	38° 17' 9"	81° 2' 24"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	011	6/28/2011	Aluminum, Total	Daily	0.4000	0.66	65%	1	38° 17' 9"	81° 2' 24"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	011	6/30/2011	Aluminum, Total	Monthly	0.23	0.25	9%	30	38° 17' 9"	81° 2' 24"	Line Ck
Alex Energy, Inc.	WV1021907	S-3014-05	013	1/31/2012	Manganese, Total	Daily	4.0000	4.26	6%	1	38-16-46	81-02-20	Line Creek
Alex Energy, Inc.	WV1021907	S-3014-05	013	1/31/2012	Manganese, Total	Monthly	2	2.5133	26%	31	38-16-46	81-02-20	Line Creek
Alex Energy, Inc.	WV1021907	S-3014-05	013	1/31/2012	Iron, Total	Daily	1.2000	1.61	34%	1	38-16-46	81-02-20	Line Creek
Alex Energy, Inc.	WV1021907	S-3014-05	013	1/31/2012	Iron, Total	Monthly	0.69	1.105	60%	31	38-16-46	81-02-20	Line Creek
Alex Energy, Inc.	WV1022091	S-3007-06	003	7/15/2011	Manganese, Total	Daily	4.0000	4.28	7%	1	38° 21' 20"	80° 57' 30"	Twentymile Ck
Alex Energy, Inc.	WV1022091	S-3007-06	003	7/31/2011	Manganese, Total	Monthly	2	2.516	26%	31	38° 21' 20"	80° 57' 30"	Twentymile Ck
Alex Energy, Inc.	WV1022091	S-3007-06	003	1/31/2012	Manganese, Total	Monthly	2	2.205	10%	31	38° 21' 20"	80° 57' 30"	Twentymile Ck
Alex Energy, Inc.	WV1022113	S301492	021	7/31/2008	Aluminum, Total	Monthly	0.43	0.5	16%	31	38°0'33"	81°26'43"	Tenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022113	S301492	021	12/31/2008	Aluminum, Total	Monthly	0.43	0.53	23%	31	38°0'33"	81°26'43"	Tenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022113	S301492	021	12/31/2008	Total Suspended Solids	Monthly	35	38.5	10%	31	38°0'33"	81°26'43"	Tenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022113	S-3005-99	023	12/11/08	Aluminum, Total	Daily	0.75	0.78	4%	1	38°0'41"	81°25'26"	Fifteenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022113	S301492	023	12/31/2008	Aluminum, Total	Monthly	0.43	0.4375	2%	31	38°0'41"	81°25'26"	Fifteenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022113	S-3005-99	023	1/13/09	Total Suspended Solids	Daily	70	153	119%	1	38°0'41"	81°25'26"	Fifteenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022113	S-3005-99	023	1/13/09	Aluminum, Total	Daily	0.75	1.6	113%	1	38°0'41"	81°25'26"	Fifteenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022113	S-3005-99	023	1/28/09	Aluminum, Total	Daily	0.75	1.2	60%	1	38°0'41"	81°25'26"	Fifteenmile Fk/Cabin Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Alex Energy, Inc.	WV1022113	S-3005-99	023	1/31/2009	Total Suspended Solids	Monthly	35	80.5	130%	31	38°0'41"	81°25'26"	Fifteenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022113	S-3005-99	023	1/31/2009	Aluminum, Total	Monthly	0.43	0.5357	25%	31	38°0'41"	81°25'26"	Fifteenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022113	S-3005-99	023	2/2/09	Aluminum, Total	Daily	0.75	0.84	12%	1	38°0'41"	81°25'26"	Fifteenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022113	S-3005-99	023	5/18/10	Aluminum, Total	Daily	0.75	0.81	8%	1	38°0'41"	81°25'26"	Fifteenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022113	S-3005-99	023	7/31/2010	Aluminum, Total	Monthly	0.43	0.49	14%	31	38°0'41"	81°25'26"	Fifteenmile Fk/Cabin Ck
Alex Energy, Inc.	WV1022270	S300907	001	1/17/2012	Aluminum, Total	Daily	0.2700	4.1	1419%	1	38-19-20	80-57-08	Hutchinson Branch
Alex Energy, Inc.	WV1022270	S300907	001	1/17/2012	Iron, Total	Daily	1.1400	1.65	45%	1	38-19-20	80-57-08	Hutchinson Branch
Alex Energy, Inc.	WV1022270	S300907	001	1/31/2012	Aluminum, Total	Monthly	0.16	2.145	1241%	31	38-19-20	80-57-08	Hutchinson Branch
Alex Energy, Inc.	WV1022270	S300907	001	1/31/2012	Iron, Total	Monthly	0.66	0.865	31%	31	38-19-20	80-57-08	Hutchinson Branch
Alex Energy, Inc.	WV1022270	S300907	002	1/17/2012	Aluminum, Total	Daily	0.2700	2.4	789%	1	38-19-12	80-57-13	Hutchinson Branch
Alex Energy, Inc.	WV1022270	S300907	002	1/31/2012	Aluminum, Total	Monthly	0.16	1.305	716%	31	38-19-12	80-57-13	Hutchinson Branch
Alex Energy, Inc.	WV1022270	S300907	003	11/1/2012	Aluminum, Total	Monthly	0.1600	0.2000	25.00%	30	38° 18' 57"	80° 57' 28"	Hutchinson Br
Alex Energy, Inc.	WV1022270	S300907	003	11/14/2012	Aluminum, Total	Daily	0.2700	0.3400	25.93%	1	38° 18' 57"	80° 57' 28"	Hutchinson Br
Alex Energy, Inc.	WV1022270	S300907	007	11/29/11	Aluminum, Total	Daily	0.4000	1.03	158%	1	38-18-47	80-57-43	Jones Branch
Alex Energy, Inc.	WV1022270	S300907	007	11/30/2011	Aluminum, Total	Monthly	0.23	0.53	130%	30	38-18-47	80-57-43	Jones Branch
Alex Energy, Inc.	WV1022270	S300907	007	12/31/2011	Aluminum, Total	Monthly	0.23	0.3	30%	31	38-18-47	80-57-43	Jones Branch
Alex Energy, Inc.	WV1022270	S300907	013	4/30/2013	Total Aluminum (1105)	Daily	0.4600	0.7400	60.87%	1	38° 20' 14.0000"	80° 57' 38.0000"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	013	4/30/2013	Total Aluminum (1105)	Monthly	0.2700	0.7400	174.07%	30	38° 20' 14.0000"	80° 57' 38.0000"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	013	4/30/2013	Total Iron (1045)	Monthly	0.8700	1.4300	64.37%	30	38° 20' 14.0000"	80° 57' 38.0000"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	018	11/29/11	Aluminum, Total	Daily	0.3500	0.62	77%	1	38° 19' 16"	80° 57' 39"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	018	11/30/2011	Aluminum, Total	Monthly	0.2	0.32	60%	30	38° 19' 16"	80° 57' 39"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	018	2/17/2012	Aluminum, Total	Daily	0.3500	1.5	329%	1	38° 19' 16"	80° 57' 39"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	018	2/27/2012	Aluminum, Total	Daily	0.3500	0.6	71%	1	38° 19' 16"	80° 57' 39"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	018	2/29/2012	Aluminum, Total	Monthly	0.2	0.5325	166%	28	38° 19' 16"	80° 57' 39"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	019	11/30/2011	Aluminum, Total	Monthly	0.2	0.31	55%	30	38° 19' 19"	80° 57' 35"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	019	4/11/2012	Aluminum, Total	Daily	0.3500	0.59	69%	1	38° 19' 19"	80° 57' 35"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	019	12/1/2012	Aluminum, Total	Monthly	0.2000	0.2200	10.00%	31	38° 19' 19"	80° 57' 35"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	019	12/14/2012	Aluminum, Total	Daily	0.3500	0.4400	25.71%	1	38° 19' 19"	80° 57' 35"	Rader Fk/Twentymile Ck
Alex Energy, Inc.	WV1022270	S300907	023	12/19/11	Manganese, Total	Daily	3.4700	4.55	31%	1	38-19-32	80-57-27	Radar Fk/Twentymile Creek
Alex Energy, Inc.	WV1022270	S300907	023	12/28/11	Manganese, Total	Daily	3.4700	3.55	2%	1	38-19-32	80-57-27	Radar Fk/Twentymile Creek

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Alex Energy, Inc.	WV1022270	S300907	023	12/31/2011	Manganese, Total	Monthly	2	3.14	57%	31	38-19-32	80-57-27	Radar Fk/Twenty mile Creek
Alex Energy, Inc.	WV1022270	S300907	026	1/20/2012	Aluminum, Total	Daily	0.3500	1.03	194%	1	38-19-54	80-57-23	Radar Fk/Twenty mile Creek
Alex Energy, Inc.	WV1022270	S300907	026	1/31/2012	Aluminum, Total	Monthly	0.2	1.03	415%	31	38-19-54	80-57-23	Radar Fk/Twenty mile Creek
Alex Energy, Inc.	WV1024337	S300809	004	6/27/2011	Iron, Total	Daily	0.1600	0.3	88%	1	37° 55' 46"	81° 27' 39"	Little Marsh Fk
Alex Energy, Inc.	WV1024337	S300809	004	6/27/2011	Manganese, Total	Daily	1.7300	2.64	53%	1	37° 55' 46"	81° 27' 39"	Little Marsh Fk
Aracoma Coal Co., Inc.	WV1008251	S504689	009	11/27/2012	Total Suspended Solids	Daily	70.00	75.00	7.14%	1	37° 51' 11"	82° 8' 53"	West Fk/Twelvpepole Ck
Aracoma Coal Co., Inc.	WV1010689	S501390	001	11/6/2012	Aluminum, Total	Daily	0.7500	1.0000	33.33%	1	37° 51' 54"	81° 54' 10"	Camp Br/Dingess Rn
Aracoma Coal Co., Inc.	WV1010689	U502190	042	11/24/08	Aluminum, Total	Daily	0.75	0.765	2%	1	37°50'30"	81°56'28"	Righthand Fork/Dingess Run
Aracoma Coal Co., Inc.	WV1010689	U502190	042	6/1/2012	Aluminum, Total	Monthly	0.4300	0.5611	30.49%	30	37°50'30"	81°56'28"	Righthand Fork/Dingess Run
Aracoma Coal Co., Inc.	WV1010689	U502190	042	6/6/2012	Aluminum, Total	Daily	0.7500	1.1000	46.67%	1	37°50'30"	81°56'28"	Righthand Fork/Dingess Run
Aracoma Coal Co., Inc.	WV1010689	U502190	042	6/28/2012	Aluminum, Total	Daily	0.7500	1.3000	73.33%	1	37°50'30"	81°56'28"	Righthand Fork/Dingess Run
Aracoma Coal Co., Inc.	WV1010689	U502190	042	9/21/2012	Aluminum, Total	Daily	0.7500	0.8140	8.53%	1	37°50'30"	81°56'28"	Righthand Fork/Dingess Run
Aracoma Coal Co., Inc.	WV1010689	S-5013-90	043	4/4/08	Aluminum, Total	Daily	0.75	1.1	47%	1	37°51'6"	81°56'28"	Dingess Run
Aracoma Coal Co., Inc.	WV1010689	S-5013-90	043	4/30/2008	Aluminum, Total	Monthly	0.43	0.5573	30%	30	37°51'6"	81°56'28"	Dingess Run
Aracoma Coal Co., Inc.	WV1010689	S-5013-90	043	4/30/2008	Aluminum, Total	Monthly	0.43	0.455	6%	30	37°51'6"	81°56'28"	Dingess Run
Aracoma Coal Co., Inc.	WV1010689	S-5013-90	043	5/31/2008	Aluminum, Total	Monthly	0.43	0.488	13%	31	37°51'6"	81°56'28"	Dingess Run
Aracoma Coal Co., Inc.	WV1010689	S-5013-90	043	7/31/2008	Aluminum, Total	Monthly	0.43	0.521	21%	31	37°51'6"	81°56'28"	Dingess Run
Aracoma Coal Co., Inc.	WV1010689	S-5013-90	043	12/31/2008	Aluminum, Total	Monthly	0.43	0.621	44%	31	37°51'6"	81°56'28"	Dingess Run
Aracoma Coal Co., Inc.	WV1010689	S-5013-90	043	6/23/09	Aluminum, Total	Daily	0.75	0.792	6%	1	37°51'6"	81°56'28"	Dingess Run
Aracoma Coal Co., Inc.	WV1010689	S-5013-90	043	6/30/2009	Aluminum, Total	Monthly	0.43	0.4632	8%	30	37°51'6"	81°56'28"	Dingess Run
Aracoma Coal Co., Inc.	WV1010689	U502190	043	11/1/2012	Aluminum, Total	Monthly	0.4300	0.4340	0.93%	30	37°51'6"	81°56'28"	Dingess Run
Aracoma Coal Co., Inc.	WV1010689		401	9/30/09	Fecal Coliform	Daily	400	3168	692%	1	37°50'28"	81°56'0"	Righthand Fork/Dingess Run
Aracoma Coal Co., Inc.	WV1020102	U-5004-99	001	2/24/2012	Aluminum, Total	Daily	0.7500	0.972	30%	1	37-50-31	81-54-27	Rum Creek
Aracoma Coal Co., Inc.	WV1020102	U-5004-99	001	2/29/2012	Aluminum, Total	Monthly	0.43	0.517	20%	28	37-50-31	81-54-27	Rum Creek
Aracoma Coal Co., Inc.	WV1020102	U-5004-99	005	7/30/09	Aluminum, Total	Daily	0.75	0.983	31%	1	37°50'13"	81°52'34"	Dingess Rn
Aracoma Coal Co., Inc.	WV1020102	U-5004-99	005	7/31/2009	Aluminum, Total	Monthly	0.43	0.4536	5%	31	37°50'13"	81°52'34"	Dingess Rn

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Aracoma Coal Co., Inc.	WV1020111	u500699	401	3/17/08	Dissolved Oxygen	Daily	6	5.94	1%	1	37°48'55"	81°53'54"	Rum Ck
Aracoma Coal Co., Inc.	WV1020111	u500699	401	9/30/2008	BOD, 5-Day 20 Deg.C	Monthly	30	30.3	1%	30	37°48'55"	81°53'54"	Rum Ck
Aracoma Coal Co., Inc.	WV1020111	u500699	401	9/30/08	Chlorine, Total Residual	Daily	0.056	0.198	254%	1	37°48'55"	81°53'54"	Rum Ck
Aracoma Coal Co., Inc.	WV1020111	u500699	401	9/30/2008	Chlorine, Total Residual	Monthly	0.028	0.198	607%	30	37°48'55"	81°53'54"	Rum Ck
Aracoma Coal Co., Inc.	WV1020111	u500699	401	3/31/09	Ammonia Nitrogen	Daily	0.03	0.04	33%	1	37°48'55"	81°53'54"	Rum Ck
Aracoma Coal Co., Inc.	WV1020111	u500699	401	3/31/09	Ammonia Nitrogen	Daily	12	23.5	96%	1	37°48'55"	81°53'54"	Rum Ck
Aracoma Coal Co., Inc.	WV1020111	u500699	401	6/30/09	Ammonia Nitrogen	Daily	0.03	0.35	1067%	1	37°48'55"	81°53'54"	Rum Ck
Aracoma Coal Co., Inc.	WV1020111	u500699	401	6/30/09	Ammonia Nitrogen	Daily	12	28	133%	1	37°48'55"	81°53'54"	Rum Ck
Aracoma Coal Co., Inc.	WV1020111	u500699	401	12/31/09	Ammonia Nitrogen	Daily	0.03	0.43	1333%	1	37°48'55"	81°53'54"	Rum Ck
Aracoma Coal Co., Inc.	WV1020111	u500699	401	12/31/09	Ammonia Nitrogen	Daily	12	34.7	189%	1	37°48'55"	81°53'54"	Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	1/31/2008	Manganese, Total	Monthly	0.13	0.165	27%	31	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	2/28/2008	Manganese, Total	Monthly	0.13	0.145	12%	28	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	3/31/2008	Manganese, Total	Monthly	0.13	0.24	85%	31	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	4/30/2008	Manganese, Total	Monthly	0.13	0.135	4%	30	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	4/30/2008	Manganese, Total	Monthly	0.13	0.14	8%	30	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	8/31/2008	Manganese, Total	Monthly	0.13	0.14	8%	31	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	11/30/2008	Manganese, Total	Monthly	0.13	0.23	77%	30	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	12/30/08	Manganese, Total	Daily	0.23	0.25	9%	1	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	12/31/2008	Manganese, Total	Monthly	0.13	0.23	77%	31	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	1/24/09	Manganese, Total	Daily	0.23	0.24	4%	1	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	1/31/2009	Manganese, Total	Monthly	0.13	0.1667	28%	31	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	3/30/09	Manganese, Total	Daily	0.23	0.24	4%	1	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	3/31/2009	Manganese, Total	Monthly	0.13	0.1333	3%	31	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	8/7/09	Manganese, Total	Daily	0.23	0.24	4%	1	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	7/12/10	Iron, Total	Daily	0.48	0.75	56%	1	37°48'35"	81°54'59"	Righthand Fk/Rum Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Bandmill Coal Corporation	WV0093211	O-36-82	016	8/19/10	Iron, Total	Daily	0.48	0.6	25%	1	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	8/31/2010	Iron, Total	Monthly	0.28	0.3525	26%	31	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	9/13/10	Iron, Total	Daily	0.48	0.62	29%	1	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	O-36-82	016	9/30/2010	Iron, Total	Monthly	0.28	0.365	30%	30	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV0093211	P-718	016	11/18/2011	Iron, Total	Daily	0.4800	0.69	44%	1	37°48'35"	81°54'59"	Righthand Fk/Rum Ck
Bandmill Coal Corporation	WV1015737		001	1/31/09	Aluminum, Total	Daily	0.75	2.3	207%	1	37°47'30"	81°52'55"	Rum Ck
Bandmill Coal Corporation	WV1015737		001	1/31/2009	Aluminum, Total	Monthly	0.43	1.2	179%	31	37°47'30"	81°52'55"	Rum Ck
Bandmill Coal Corporation	WV1016849	S-5015-96	004	7/31/2008	Aluminum, Total	Monthly	0.4329	0.498	15%	31	37°45'54"	81°51'32"	Buffalo Ck
Bandmill Coal Corporation	WV1016849	S-5015-96	004	5/31/2009	Total Suspended Solids	Monthly	35	139	297%	31	37°45'54"	81°51'32"	Buffalo Ck
Belfrey Coal Corporation	KYG044197	898-4005	007	1/31/2008	Manganese, Total	Monthly	2	2.328	16%	31	37° 26' 48"	82° 22' 25"	Hurricane Creek
Big Bear Mining Co.	WV0056693	O-174-83	007	6/4/08	pH	Daily	6	5	17%	1	37°41'53"	81°40'23"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	007	1/7/09	Total Suspended Solids	Daily	70	104	49%	1	37°41'53"	81°40'23"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	007	1/7/09	Aluminum, Total	Daily	0.75	1.26	68%	1	37°41'53"	81°40'23"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	007	1/31/2009	Total Suspended Solids	Monthly	35	53.5	53%	31	37°41'53"	81°40'23"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	007	1/31/2009	Aluminum, Total	Monthly	0.43	0.835	94%	31	37°41'53"	81°40'23"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	1/7/09	Aluminum, Total	Daily	0.75	0.94	25%	1	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	1/31/2009	Aluminum, Total	Monthly	0.43	0.655	52%	31	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	2/2/09	Aluminum, Total	Daily	0.75	0.86	15%	1	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	2/2/09	Iron, Total	Daily	2.89	3.75	30%	1	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	4/13/09	Aluminum, Total	Daily	0.75	0.94	25%	1	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	4/27/09	Iron, Total	Daily	2.89	2.95	2%	1	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	4/30/2009	Aluminum, Total	Monthly	0.43	0.594	38%	30	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	4/30/2009	Iron, Total	Monthly	1.67	2.3467	41%	30	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	5/14/09	Aluminum, Total	Daily	0.75	0.8	7%	1	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	5/14/09	Iron, Total	Daily	2.89	3.22	11%	1	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	5/31/2009	Aluminum, Total	Monthly	0.43	0.54	26%	31	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	012	5/31/2009	Iron, Total	Monthly	1.67	1.94	16%	31	37°42'3"	81°40'54"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	014	1/7/09	Aluminum, Total	Daily	0.75	0.95	27%	1	37°41'51"	81°40'14"	Lower Road Branch
Big Bear Mining Co.	WV0056693	O-174-83	014	1/31/2009	Total Suspended Solids	Monthly	35	44	26%	31	37°41'51"	81°40'14"	Lower Road Branch
Big Bear Mining Co.	WV0056693	O-174-83	014	1/31/2009	Aluminum, Total	Monthly	0.43	0.95	121%	31	37°41'51"	81°40'14"	Lower Road Branch
Big Bear Mining Co.	WV0056693	O-174-83	015	1/7/09	Aluminum, Total	Daily	0.75	0.79	5%	1	37°42'4"	81°40'9"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	7/31/2008	Aluminum, Total	Monthly	0.43	0.5	16%	31	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	1/7/09	Manganese, Total	Daily	3.47	3.63	5%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	1/31/2009	Aluminum, Total	Monthly	0.43	0.54	26%	31	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	4/22/09	Manganese, Total	Daily	3.47	4.78	38%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	4/30/2009	Manganese, Total	Monthly	2	3.435	72%	30	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	5/14/09	Manganese, Total	Daily	3.47	5.92	71%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	5/14/09	Aluminum, Total	Daily	0.75	1.18	57%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	5/14/09	Iron, Total	Daily	2.89	5.45	89%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	5/19/09	Manganese, Total	Daily	3.47	5.81	67%	1	37°41'29"	81°39'43"	Lower Road Br

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Big Bear Mining Co.	WV0056693	O-174-83	018	5/19/09	Iron, Total	Daily	2.89	3	4%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	5/31/2009	Manganese, Total	Monthly	2	3.64	82%	31	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	5/31/2009	Aluminum, Total	Monthly	0.43	0.5425	26%	31	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	5/31/2009	Iron, Total	Monthly	1.67	2.165	30%	31	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	6/15/09	Manganese, Total	Daily	3.47	4.43	28%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	4/30/2011	Manganese, Total	Monthly	2	3.61	81%	30	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	4/30/2011	Manganese, Total	Daily	3.4700	3.75	8%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	6/17/2011	Total Suspended Solids	Daily	70.0000	72	3%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	12/6/2011	Manganese, Total	Daily	3.4700	4.13	19%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	12/8/2011	Manganese, Total	Daily	3.4700	3.7	7%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	018	12/13/11	Manganese, Total	Daily	3.4700	3.52	1%	1	37°41'29"	81°39'43"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	5/5/08	Aluminum, Total	Daily	0.75	1.06	41%	1	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	5/31/2008	Aluminum, Total	Monthly	0.43	0.82	91%	31	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	7/31/2008	Aluminum, Total	Monthly	0.43	0.475	10%	31	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	12/10/08	Aluminum, Total	Daily	0.75	0.82	9%	1	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	12/31/2008	Aluminum, Total	Monthly	0.43	0.4556	6%	31	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	1/7/09	Aluminum, Total	Daily	0.75	0.96	28%	1	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	1/31/2009	Aluminum, Total	Monthly	0.43	0.735	71%	31	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	2/28/2009	Aluminum, Total	Monthly	0.43	0.5017	17%	28	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	3/31/09	Aluminum, Total	Daily	0.75	1.9	153%	1	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	3/31/2009	Aluminum, Total	Monthly	0.43	0.46	7%	31	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	4/30/2009	Aluminum, Total	Monthly	0.43	0.53	23%	30	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	5/14/09	Aluminum, Total	Daily	0.75	0.76	1%	1	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	5/31/2009	Aluminum, Total	Monthly	0.43	0.6067	41%	31	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	020	6/30/2009	Aluminum, Total	Monthly	0.43	0.4886	14%	30	37°41'54"	81°40'28"	Lower Road Br
Big Bear Mining Co.	WV0056693	O-174-83	021	1/31/2009	Aluminum, Total	Monthly	0.43	0.44	2%	31	37°41'57"	81°39'38"	Rockhouse Fk
Big Bear Mining Co.	WV0056693	O-174-83	022	4/13/09	Aluminum, Total	Daily	0.75	1.11	48%	1	37°41'56"	81°39'41"	Rockhouse Fk
Big Bear Mining Co.	WV0056693	O-174-83	025	3/1/09	Aluminum, Total	Daily	0.75	0.96	28%	1	37°41'44"	81°39'59"	Lower Road Branch
Big Bear Mining Co.	WV0056693	O-174-83	025	5/14/09	Aluminum, Total	Daily	0.75	0.86	15%	1	37°41'44"	81°39'59"	Lower Road Branch
Big Bear Mining Co.	WV0056693	O-174-83	025	5/31/2009	Aluminum, Total	Monthly	0.43	0.475	10%	31	37°41'44"	81°39'59"	Lower Road Branch
Clear Fork Coal Co.	WV0061671	O-125-83	001	5/2/08	Aluminum, Total	Daily	0.14	0.16	14%	1	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	001	5/29/08	Aluminum, Total	Daily	0.14	0.27	93%	1	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	001	5/31/2008	Aluminum, Total	Monthly	0.08	0.215	169%	31	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	001	6/10/08	Aluminum, Total	Daily	0.14	0.23	64%	1	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	001	6/30/2008	Aluminum, Total	Monthly	0.14	0.25	79%	30	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	001	4/2/10	Iron, Total	Daily	0.84	1.22	45%	1	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	001	3/15/11	Aluminum, Total	Daily	0.2	0.24	20%	1	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	001	3/31/2011	Aluminum, Total	Monthly	0.12	0.155	29%	31	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	001	4/13/2011	Aluminum, Total	Daily	0.2000	0.44	120%	1	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	001	4/30/2011	Aluminum, Total	Monthly	0.12	0.2267	89%	30	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	001	6/30/2011	Aluminum, Total	Monthly	0.12	0.1267	6%	30	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	001	9/30/2011	Aluminum, Total	Monthly	0.12	0.1225	2%	30	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	002	2/21/08	Manganese, Total	Daily	4	7.94	99%	1	37°53'23"	81°21'1"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	002	2/28/2008	Manganese, Total	Monthly	2	3.72	86%	28	37°53'23"	81°21'1"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	002	4/11/08	Aluminum, Total	Daily	0.14	0.27	93%	1	37°53'23"	81°21'1"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	002	4/30/2008	Aluminum, Total	Monthly	0.08	0.2	150%	30	37°53'23"	81°21'1"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	002	5/5/08	Aluminum, Total	Daily	0.14	0.22	57%	1	37°53'23"	81°21'1"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	002	5/21/08	Aluminum, Total	Daily	0.14	0.48	243%	1	37°53'23"	81°21'1"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	002	5/31/2008	Aluminum, Total	Monthly	0.08	0.35	338%	31	37°53'23"	81°21'1"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	002	6/10/08	Aluminum, Total	Daily	0.14	0.4	186%	1	37°53'23"	81°21'1"	Workman Ck/Clear Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Clear Fork Coal Co.	WV0061671	O-125-83	002	6/30/2008	Aluminum, Total	Monthly	0.08	0.28	250%	30	37°53'23"	81°21'1"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	002	12/31/2008	Manganese, Total	Monthly	1.8	2.1	17%	31	37°53'23"	81°21'1"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	4/8/08	Aluminum, Total	Daily	0.14	0.54	286%	1	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	4/19/08	Aluminum, Total	Daily	0.14	0.28	100%	1	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	4/30/2008	Aluminum, Total	Monthly	0.08	0.41	413%	30	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	5/6/08	Aluminum, Total	Daily	0.14	0.46	229%	1	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	5/21/08	Aluminum, Total	Daily	0.14	0.78	457%	1	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	5/31/2008	Aluminum, Total	Monthly	0.08	0.62	675%	31	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	6/30/2008	Aluminum, Total	Monthly	0.08	0.315	294%	30	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	8/22/09	Iron, Total	Daily	0.84	1.05	25%	1	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	8/31/2009	Iron, Total	Monthly	0.48	0.5667	18%	31	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	2/24/10	Total Suspended Solids	Daily	70	86	23%	1	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	1/13/2012	Aluminum, Total	Daily	2.0700	3.31	60%	1	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	1/13/2012	Iron, Total	Daily	0.8400	1.74	107%	1	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	003	5/22/2012	Iron, Total	Daily	0.8400	0.99	18%	1	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O012583	003	3/31/2013	Total Suspended Solids	Monthly	35.0000	38.0000	8.57%	31	37°53'18"	81°21'39"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	005	4/8/08	Aluminum, Total	Daily	0.14	0.33	136%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	005	4/30/2008	Aluminum, Total	Monthly	0.08	1.1665	108%	30	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	005	5/13/08	Aluminum, Total	Daily	0.14	0.61	336%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	005	5/20/08	Aluminum, Total	Daily	0.14	0.54	286%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	005	5/31/2008	Aluminum, Total	Monthly	0.08	0.575	619%	31	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	005	6/5/08	Aluminum, Total	Daily	0.14	0.42	200%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	005	6/30/2008	Aluminum, Total	Monthly	0.08	0.225	181%	30	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	005	8/29/08	pH	Daily	6	5.9	2%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	005	8/31/2008	Aluminum, Total	Monthly	0.91	1.3	43%	31	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	005	11/24/10	Aluminum, Total	Daily	0.1300	0.1500	15%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	005	3/15/11	Aluminum, Total	Daily	0.13	0.14	8%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O012583	005	9/7/2012	Iron, Total	Daily	0.3800	0.5900	55.26%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O012583	005	9/7/2012	Aluminum, Total	Daily	0.3600	0.6900	91.67%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O012583	005	2/27/2013	Total Aluminum (1105)	Daily	0.3600	0.3700	2.78%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O012583	005	3/15/2013	Total Aluminum (1105)	Daily	0.3600	0.6000	66.67%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O012583	005	3/26/2013	Total Aluminum (1105)	Daily	0.3600	0.4300	19.44%	1	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O012583	005	3/31/2013	Total Aluminum (1105)	Monthly	0.2200	0.3400	54.55%	31	37°52'53"	81°22'53"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	006	4/5/08	Aluminum, Total	Daily	0.14	0.19	36%	1	37°53'0"	81°21'48"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O-125-83	006	5/20/08	Aluminum, Total	Daily	0.14	0.54	286%	1	37°53'0"	81°21'48"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0061671	O012583	006	6/1/2012	Iron, Total	Monthly	0.4800	0.7600	58.33%	30	37°53'0"	81°21'48"	Workman Ck/Clear Fk
Clear Fork Coal Co.	WV0093530	UO-130	003	5/31/2008	Iron, Total	Monthly	0.48	0.62	29%	31	37°54'10"	81°22'39"	McDowell Branch
Clear Fork Coal Co.	WV0093530	UO-130	007	4/30/2011	Aluminum, Total	Monthly	1.14	1.41	24%	30	37° 54' 6"	81° 22' 42"	McDowell Br
Clear Fork Coal Co.	WV0093530	UO-130	007	4/30/2011	Iron, Total	Monthly	0.48	0.64	33%	30	37° 54' 6"	81° 22' 42"	McDowell Br
Clear Fork Coal Co.	WV0096601	D-40-81	001	2/28/2008	Aluminum, Total	Monthly	0.91	1.13	24%	28	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	2/28/2008	Iron, Total	Monthly	0.48	0.55	15%	28	37°51'46"	81°22'1"	Workman Creek/Clear Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Clear Fork Coal Co.	WV0096601	D-40-81	001	3/31/2008	Aluminum, Total	Monthly	0.91	1.105	21%	31	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	3/31/2008	Iron, Total	Monthly	0.48	0.51	6%	31	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	7/8/08	Total Suspended Solids	Daily	70	103	47%	1	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	7/8/08	Iron, Total	Daily	0.84	1.12	33%	1	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	7/31/2008	Total Suspended Solids	Monthly	35	38.3333	10%	31	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	7/31/2008	Iron, Total	Monthly	0.48	0.6767	41%	31	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	12/30/08	Iron, Total	Daily	0.84	0.98	17%	1	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	12/31/2008	Iron, Total	Monthly	0.48	0.98	104%	31	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	7/31/09	Iron, Total	Daily	0.84	1.76	110%	1	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	7/31/2009	Iron, Total	Monthly	0.48	1.08	125%	31	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	12/7/09	Aluminum, Total	Daily	1.58	1.67	6%	1	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	12/7/09	Iron, Total	Daily	0.84	1.23	46%	1	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	12/17/09	Aluminum, Total	Daily	1.58	2.3	46%	1	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	001	12/17/09	Iron, Total	Daily	0.84	1.18	40%	1	37°51'46"	81°22'1"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	006	11/22/08	Iron, Total	Daily	0.84	1.58	88%	1	37°51'46"	81°21'58"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	006	7/28/09	Iron, Total	Daily	0.84	0.85	1%	1	37°51'46"	81°21'58"	Workman Creek/Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	011	4/3/09	Total Suspended Solids	Daily	70	298	326%	1	37°52'19"	81°23'18"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV0096601	D-40-81	011	4/30/2009	Total Suspended Solids	Monthly	35	39.75	14%	30	37°52'19"	81°23'18"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV0096601	D-40-81	012	6/18/09	Iron, Total	Daily	0.84	1.01	20%	1	37°52'4"	81°21'33"	Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	012	7/28/09	Iron, Total	Daily	0.84	1.04	24%	1	37°52'4"	81°21'33"	Clear Fork
Clear Fork Coal Co.	WV0096601	D-40-81	012	7/31/2009	Iron, Total	Monthly	0.48	1.04	117%	31	37°52'4"	81°21'33"	Clear Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	008	2/14/08	Iron, Total	Daily	5.26	8.09	54%	1	37°53'4"	81°25'6"	Dry Ck/Marsh Fk
Clear Fork Coal Co.	WV1002384	U-3024-89	008	2/28/2008	Iron, Total	Monthly	3	8.09	170%	28	37°53'4"	81°25'6"	Dry Ck/Marsh Fk
Clear Fork Coal Co.	WV1002384	U-3024-89	008	3/31/2008	Iron, Total	Monthly	3	3.28	9%	31	37°53'4"	81°25'6"	Dry Ck/Marsh Fk
Clear Fork Coal Co.	WV1002384	U-3024-89	008	4/15/08	Iron, Total	Daily	5.26	6.92	32%	1	37°53'4"	81°25'6"	Dry Ck/Marsh Fk
Clear Fork Coal Co.	WV1002384	U-3024-89	008	4/30/2008	Iron, Total	Monthly	3	4.585	53%	30	37°53'4"	81°25'6"	Dry Ck/Marsh Fk
Clear Fork Coal Co.	WV1002384	U-3024-89	008	6/19/08	Iron, Total	Daily	5.26	6.59	25%	1	37°53'4"	81°25'6"	Dry Ck/Marsh Fk
Clear Fork Coal Co.	WV1002384	U-3024-89	008	10/31/08	Iron, Total	Daily	5.26	6.92	32%	1	37°53'4"	81°25'6"	Dry Ck/Marsh Fk
Clear Fork Coal Co.	WV1002384	U-3024-89	008	1/29/09	pH	Daily	9	9.08	1%	1	37°53'4"	81°25'6"	Dry Ck/Marsh Fk
Clear Fork Coal Co.	WV1002384	U-3024-89	008	1/19/11	Iron, Total	Daily	5.26	6.2	18%	1	37°53'4"	81°25'6"	Dry Ck/Marsh Fk
Clear Fork Coal Co.	WV1002384	U-3024-89	008	1/25/11	Iron, Total	Daily	5.26	5.28	0.38023%	1	37°53'4"	81°25'6"	Dry Ck/Marsh Fk
Clear Fork Coal Co.	WV1002384	U-3024-89	008	1/31/2011	Iron, Total	Monthly	3	3.86	29%	31	37°53'4"	81°25'6"	Dry Ck/Marsh Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/28/08	Aluminum, Total	Daily	0.75	2.22	196%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/31/2008	Aluminum, Total	Monthly	0.43	2.22	416%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/15/08	Aluminum, Total	Daily	0.75	1.66	121%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/29/08	Aluminum, Total	Daily	0.75	1.46	95%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/30/2008	Aluminum, Total	Monthly	0.43	1.56	263%	30	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/15/08	Aluminum, Total	Daily	0.75	4	433%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/29/08	Aluminum, Total	Daily	0.75	1.82	143%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/31/2008	Aluminum, Total	Monthly	0.43	2.91	577%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	6/19/08	Aluminum, Total	Daily	0.75	2.22	196%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	1/13/09	Aluminum, Total	Daily	0.75	8.22	996%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	1/29/09	Aluminum, Total	Daily	0.75	5.6	647%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	1/31/2009	Aluminum, Total	Monthly	0.43	6.91	1507%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	2/12/09	Aluminum, Total	Daily	0.75	3.22	329%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	2/28/09	Aluminum, Total	Daily	0.75	2.92	289%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	2/28/2009	Aluminum, Total	Monthly	0.43	3.07	614%	28	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/12/09	Aluminum, Total	Daily	0.75	3	300%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/24/09	Aluminum, Total	Daily	0.75	2.43	224%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/31/2009	Aluminum, Total	Monthly	0.43	2.715	531%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/18/09	Aluminum, Total	Daily	0.75	1.58	111%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/30/09	Aluminum, Total	Daily	0.75	2.1	180%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/30/2009	Aluminum, Total	Monthly	0.43	1.84	328%	30	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/14/09	Aluminum, Total	Daily	0.75	1.51	101%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/28/09	Aluminum, Total	Daily	0.75	1.9	153%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/31/2009	Aluminum, Total	Monthly	0.43	1.705	297%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	6/11/09	Aluminum, Total	Daily	0.75	2.44	225%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Clear Fork Coal Co.	WV1002384	U-3024-89	011	6/27/09	Aluminum, Total	Daily	0.75	2.7	260%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	6/30/2009	Aluminum, Total	Monthly	0.43	2.57	498%	30	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	7/11/09	Aluminum, Total	Daily	0.75	2.2	193%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	7/31/2009	Aluminum, Total	Monthly	0.43	2.2	412%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	1/19/10	Aluminum, Total	Daily	0.75	3.73	397%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	1/26/10	Aluminum, Total	Daily	0.75	2.06	175%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	1/31/2010	Aluminum, Total	Monthly	0.43	2.895	573%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	2/4/10	Aluminum, Total	Daily	0.75	1.13	51%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	2/28/2010	Aluminum, Total	Monthly	0.43	1.13	163%	28	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/24/10	Aluminum, Total	Daily	0.75	0.92	23%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/31/2010	Aluminum, Total	Monthly	0.43	0.455	6%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/7/10	Aluminum, Total	Daily	0.75	0.91	21%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/30/10	Aluminum, Total	Daily	0.75	1.91	155%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/30/2010	Aluminum, Total	Monthly	0.43	0.5783	34%	30	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/20/10	Aluminum, Total	Daily	0.75	1.86	148%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/31/2010	Aluminum, Total	Monthly	0.43	0.4733	10%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	6/3/10	Aluminum, Total	Daily	0.75	1.43	91%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	6/30/2010	Aluminum, Total	Monthly	0.43	0.89	107%	30	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	2/7/11	Aluminum, Total	Daily	0.75	2.57	243%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	2/23/11	Aluminum, Total	Daily	0.75	1.41	88%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	2/28/2011	Aluminum, Total	Monthly	0.43	1.99	363%	28	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/9/11	Aluminum, Total	Daily	0.75	1.92	156%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/22/11	Aluminum, Total	Daily	0.75	1.36	81%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/31/2011	Aluminum, Total	Monthly	0.43	1.64	281%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/7/2011	Aluminum, Total	Daily	0.7500	2.06	175%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/26/2011	Aluminum, Total	Daily	0.7500	1.14	52%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/30/2011	Aluminum, Total	Monthly	0.43	1.6	272%	30	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/5/2011	Aluminum, Total	Daily	0.7500	1.13	51%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/19/2011	Aluminum, Total	Daily	0.7500	1.51	101%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/31/2011	Aluminum, Total	Monthly	0.43	1.32	207%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	10/31/2011	Aluminum, Total	Monthly	0.43	0.44	2%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	12/14/11	Aluminum, Total	Daily	0.7500	2.07	176%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	12/31/2011	Aluminum, Total	Monthly	0.43	2.07	381%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	1/12/2012	Aluminum, Total	Daily	0.7500	1.49	99%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	1/26/2012	Aluminum, Total	Daily	0.7500	1.47	96%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	1/31/2012	Aluminum, Total	Monthly	0.43	1.48	244%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	2/17/2012	Aluminum, Total	Daily	0.7500	1.44	92%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	2/18/2012	Aluminum, Total	Daily	0.7500	2.36	215%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	2/29/2012	Aluminum, Total	Monthly	0.43	1.9	342%	28	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/16/2012	Aluminum, Total	Daily	0.7500	1.09	45%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/29/2012	Aluminum, Total	Daily	0.7500	1.5	100%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	3/31/2012	Aluminum, Total	Monthly	0.43	1.295	201%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/28/2012	Aluminum, Total	Daily	0.7500	1.42	89%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/30/2012	Aluminum, Total	Daily	0.7500	1.39	85%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	4/30/2012	Aluminum, Total	Monthly	0.43	1.405	227%	30	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/10/2012	Aluminum, Total	Daily	0.7500	1.14	52%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/30/2012	Aluminum, Total	Daily	0.7500	0.89	19%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U-3024-89	011	5/31/2012	Aluminum, Total	Monthly	0.43	1.015	136%	31	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U302489	011	6/1/2012	Aluminum, Total	Monthly	0.4300	0.8350	94.19%	30	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Clear Fork Coal Co.	WV1002384	U302489	011	6/7/2012	Aluminum, Total	Daily	0.7500	1.1100	48.00%	1	37°52'42"	81°23'47"	Rock Creek/Marsh Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Clear Fork Coal Co.	WV1002384	U302489	011	4/30/2013	Total Aluminum (1105)	Monthly	0.6300	0.8850	40.48%	30	37°52'42"	81°23'47"	Rock Creek/Marsh Fork
Delbarton Mining Co.	WV1003674		002	11/30/2008	Aluminum, Total	Monthly	0.43	0.535	24%	30	37°44'40.34"	82°12'27.8"	Pigeon Ck
Delbarton Mining Co.	WV1003674		002	1/31/2009	Aluminum, Total	Monthly	0.43	0.4727	10%	31	37°44'40.34"	82°12'27.8"	Pigeon Ck
Delbarton Mining Co.	WV1003674		002	3/19/09	Aluminum, Total	Daily	0.75	0.91	21%	1	37°44'40.34"	82°12'27.8"	Pigeon Ck
Delbarton Mining Co.	WV1003674		002	3/31/2009	Aluminum, Total	Monthly	0.43	0.432	0.4651%	31	37°44'40.34"	82°12'27.8"	Pigeon Ck
Delbarton Mining Co.	WV1003674		004	12/19/08	Aluminum, Total	Daily	0.75	0.803	7%	1	37°44'32.47"	82°12'18.75"	Pigeon Ck
Delbarton Mining Co.	WV1003844	O508091	001	12/31/2008	Aluminum, Total	Monthly	0.43	0.5715	33%	31	37°44'33"	82°12'15"	Pigeon Ck
Delbarton Mining Co.	WV1003844	O508091	001	6/10/10	Iron, Total	Daily	2.46	2.97	21%	1	37°44'33"	82°12'15"	Pigeon Ck
Delbarton Mining Co.	WV1003844	O-5080-91	001	4/30/2011	Total Suspended Solids	Monthly	35	45.5	30%	30	37°44'33"	82°12'15"	Pigeon Ck
Delbarton Mining Co.	WV1003844	O-5080-91	001	5/31/2011	Aluminum, Total	Monthly	0.43	0.501	17%	31	37°44'33"	82°12'15"	Pigeon Ck
Delbarton Mining Co.	WV1003844	O-5080-91	001	12/31/2011	Aluminum, Total	Monthly	0.43	0.444	3%	31	37°44'33"	82°12'15"	Pigeon Ck
Delbarton Mining Co.	WV1003844	O-5080-91	001	3/21/2012	Aluminum, Total	Daily	0.7500	1.3	73%	1	37°44'33"	82°12'15"	Pigeon Ck
Delbarton Mining Co.	WV1003844	O-5080-91	001	3/31/2012	Aluminum, Total	Monthly	0.43	0.4514	5%	31	37°44'33"	82°12'15"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	3/31/09	Ammonia Nitrogen	Daily	0.08	0.08	0.0000%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	3/31/09	Ammonia Nitrogen	Daily	6	6.72	12%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	3/31/09	BOD, 5-Day 20 Deg.C	Daily	0.12	0.19	58%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	3/31/09	BOD, 5-Day 20 Deg.C	Daily	10	15	50%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	6/30/09	Chlorine, Total Residual	Daily	0.056	1	1686%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	9/30/09	BOD, 5-Day 20 Deg.C	Daily	0.12	0.2	67%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	9/30/09	BOD, 5-Day 20 Deg.C	Daily	10	16.06	61%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	9/30/09	Fecal Coliform	Daily	400	1048	162%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	12/31/09	Ammonia Nitrogen	Daily	0.08	0.5	525%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	12/31/09	Ammonia Nitrogen	Daily	6	40.32	572%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	12/31/09	BOD, 5-Day 20 Deg.C	Daily	0.12	0.18	50%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	12/31/09	BOD, 5-Day 20 Deg.C	Daily	10	14.3	43%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	3/31/10	Ammonia Nitrogen	Daily	0.08	0.4764	496%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	3/31/10	Ammonia Nitrogen	Daily	6	38.08	535%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	3/31/10	BOD, 5-Day 20 Deg.C	Daily	0.12	0.1726	44%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	3/31/10	BOD, 5-Day 20 Deg.C	Daily	10	13.8	38%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	9/22/10	Ammonia Nitrogen	Daily	6	17.92	199%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	9/22/10	BOD, 5-Day 20 Deg.C	Daily	10	15.7	57%	1	37°44'36"	82°12'20"	Pigeon Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Delbarton Mining Co.	WV1016865	U50180 U501996	400	9/30/2010	Ammonia Nitrogen	Monthly	3	17.92	497%	30	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U50180 U501996	400	9/30/2010	BOD, 5-Day 20 Deg.C	Monthly	5	15.7	214%	30	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U-5019-96/U-5018-01	400	5/25/2011	BOD	Daily	10.0000	19.4	94%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U-5019-96/U-5018-01	400	5/31/2011	BOD	Monthly	5	19.4	288%	31	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U-5019-96/U-5018-01	400	5/2/2012	BOD	Daily	10.0000	24.44	144%	1	37°44'36"	82°12'20"	Pigeon Ck
Delbarton Mining Co.	WV1016865	U-5019-96/U-5018-01	400	5/31/2012	BOD	Monthly	5	13.705	174%	31	37°44'36"	82°12'20"	Pigeon Ck
Duchess Coal Co.	WV0044750	898-4005	001	1/31/2008	Manganese, Total	Monthly	2	2.31	16%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	11/30/2008	Manganese, Total	Monthly	2	2.395	20%	30	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	1/30/09	Aluminum, Total	Daily	0.75	1.2	60%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	1/31/2009	Aluminum, Total	Monthly	0.43	0.696	62%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	4/9/09	Aluminum, Total	Daily	0.75	1.1	47%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	4/30/2009	Aluminum, Total	Monthly	0.43	0.675	57%	30	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	5/31/2009	Aluminum, Total	Monthly	0.43	0.4998	16%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	6/30/2009	Aluminum, Total	Monthly	0.43	0.534	24%	30	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	8/31/2009	Aluminum, Total	Monthly	0.43	0.443	3%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	12/31/2009	Aluminum, Total	Monthly	0.43	0.4573	6%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	3/31/2010	Aluminum, Total	Monthly	0.43	0.5055	18%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	9/7/10	pH	Daily	9	10.7	19%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	898-4005	001	12/31/2010	Manganese, Total	Monthly	2	2.335	17%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	1/11/11	Manganese, Total	Daily	3.47	4.6	33%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	3/28/11	Aluminum, Total	Daily	0.75	1.5	100%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	3/30/11	Aluminum, Total	Daily	0.75	1.3	73%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	3/31/2011	Aluminum, Total	Monthly	0.43	0.873	103%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	4/8/2011	Aluminum, Total	Daily	0.7500	1.8	140%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	4/21/2011	Aluminum, Total	Daily	0.7500	1.6	113%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	4/25/2011	Aluminum, Total	Daily	0.7500	1.7	127%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	4/26/2011	Aluminum, Total	Daily	0.7500	1.3	73%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	4/30/2011	Aluminum, Total	Monthly	0.43	1.396	225%	30	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	5/19/2011	Aluminum, Total	Daily	0.7500	1.4	87%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	5/20/2011	Aluminum, Total	Daily	0.7500	1.5	100%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	5/31/2011	Aluminum, Total	Monthly	0.43	0.8628	101%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	11/2/11	Iron, Total	Daily	2.4600	3.66	49%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	3/5/2012	Aluminum, Total	Daily	0.7500	1	33%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	3/7/2012	Aluminum, Total	Daily	0.7500	2.8	273%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	3/16/2012	Aluminum, Total	Daily	0.7500	1.1	47%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	3/31/2012	Manganese, Total	Monthly	2	2.2975	15%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	3/31/2012	Aluminum, Total	Monthly	0.43	1.3755	220%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	4/5/2012	Aluminum, Total	Daily	0.7500	0.879	17%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	4/30/2012	Aluminum, Total	Monthly	0.43	0.5285	23%	30	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R-630	001	5/31/2012	Aluminum, Total	Monthly	0.43	0.4597	7%	31	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R063000	001	6/1/2012	Aluminum, Total	Monthly	0.4300	0.5406	25.72%	30	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R063000	001	6/8/2012	Aluminum, Total	Daily	0.75	0.81	7.73%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R063000	001	6/25/2012	Aluminum, Total	Daily	0.75	0.92	23.20%	1	37°32'14"	81°52'27"	Fourpole Ck
Duchess Coal Co.	WV0044750	R063000	001	1/1/2013	Aluminum, Total	Monthly	0.56	0.68	21.49%	31	37°32'14"	81°52'27"	Fourpole Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Duchess Coal Co.	WV0044750	R063000	001	1/29/2013	Aluminum, Total	Daily	0.97	1.00	3.09%	1	37°32'14"	81°52'27"	Fourpole Ck
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	1/31/2008	Aluminum, Total	Monthly	0.43	0.515	20%	31	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	2/22/08	Aluminum, Total	Daily	0.75	0.8	7%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	2/28/2008	Aluminum, Total	Monthly	0.43	0.745	73%	28	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	3/6/08	Aluminum, Total	Daily	0.75	0.88	17%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	3/13/08	Aluminum, Total	Daily	0.75	0.86	15%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	3/20/08	Aluminum, Total	Daily	0.75	0.82	9%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	3/31/2008	Aluminum, Total	Monthly	0.43	0.8533	98%	31	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	12/17/08	Aluminum, Total	Daily	0.75	0.76	1%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	12/31/2008	Aluminum, Total	Monthly	0.43	0.46	7%	31	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	1/21/09	Aluminum, Total	Daily	0.75	0.92	23%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	1/29/09	Aluminum, Total	Daily	0.75	0.81	8%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	1/31/09	Aluminum, Total	Daily	0.75	0.98	31%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	1/31/2009	Aluminum, Total	Monthly	0.43	0.8125	89%	31	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	2/5/09	Aluminum, Total	Daily	0.75	0.85	13%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	2/8/09	Aluminum, Total	Daily	0.75	0.93	24%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	2/28/2009	Aluminum, Total	Monthly	0.43	0.4884	14%	28	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	3/11/09	Aluminum, Total	Daily	0.75	0.76	1%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	4/2/09	Aluminum, Total	Daily	0.75	0.77	3%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	4/15/09	Aluminum, Total	Daily	0.75	1.1	47%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-83/0-5060-	004	4/30/2009	Aluminum, Total	Monthly	0.43	0.935	117%	30	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	7/31/2009	Aluminum, Total	Monthly	0.43	0.5267	22%	31	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	8/21/09	Aluminum, Total	Daily	0.75	0.8	7%	1	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-84/0-5060-	004	8/31/2009	Aluminum, Total	Monthly	0.43	0.4658	8%	31	37°57'57"	81°39'30"	Browns Br/We Fk
Eagle Energy, Inc.	WV0025607	0-43-83/0-5060-	007	4/30/2009	Aluminum, Total	Monthly	0.43	0.4475	4%	30	37°57'36"	81°39'21"	West Fk
Eagle Energy, Inc.	WV0025607	0-43-83/0-5060-	007	4/26/10	Aluminum, Total	Daily	0.75	1.34	79%	1	37°57'36"	81°39'21"	West Fk
Eagle Energy, Inc.	WV0025607	0-43-83	031	2/12/08	Aluminum, Total	Daily	0.75	1.08	44%	1	37°57'19"	81°40'35"	Roach Br

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Eagle Energy, Inc.	WV0025607	O-43-83	031	2/28/2008	Aluminum, Total	Monthly	0.43	1.08	151%	28	37°57'19"	81°40'35"	Roach Br
Eagle Energy, Inc.	WV0025607	O-43-83	031	1/5/09	Aluminum, Total	Daily	0.75	0.95	27%	1	37°57'19"	81°40'35"	Roach Br
Eagle Energy, Inc.	WV0025607	O-43-83	031	1/31/2009	Aluminum, Total	Monthly	0.43	0.655	52%	31	37°57'19"	81°40'35"	Roach Br
Eagle Energy, Inc.	WV0025607	U003483	401	6/30/09	Chlorine, Total Residual	Daily	0.028	2	7043%	1	37°57'23"	81°39'20"	West Fk
Eagle Energy, Inc.	WV0025607	U003483	401	3/31/10	Chlorine, Total Residual	Daily	0.028	1.5	5257%	1	37°57'23"	81°39'20"	West Fk
Eagle Energy, Inc.	WV0025607	U003483	401	4/30/10	Chlorine, Total Residual	Daily	0.028	1	3471%	1	37°57'23"	81°39'20"	West Fk
Eagle Energy, Inc.	WV0025607	U003483	401	7/31/10	Chlorine, Total Residual	Daily	28	2000	7043%	1	37°57'23"	81°39'20"	West Fk
Elk Run Coal Co., Inc.	WV0050903	D-2182	003	2/28/2008	Aluminum, Total	Monthly	0.43	0.5	16%	28	38°0'46"	81°33'53"	Little Elk Creek
Elk Run Coal Co., Inc.	WV0050903	D-2182	003	5/31/2008	Aluminum, Total	Monthly	0.43	0.68	58%	31	38°0'46"	81°33'53"	Little Elk Creek
Elk Run Coal Co., Inc.	WV0050903	D-2182	003	5/31/2008	Total Suspended Solids	Monthly	35	40	14%	31	38°0'46"	81°33'53"	Little Elk Creek
Elk Run Coal Co., Inc.	WV0050903	D-2182	003	12/1/08	Aluminum, Total	Daily	0.75	3.14	319%	1	38°0'46"	81°33'53"	Little Elk Creek
Elk Run Coal Co., Inc.	WV0050903	D-2182	003	12/1/08	Total Suspended Solids	Daily	70	121	73%	1	38°0'46"	81°33'53"	Little Elk Creek
Elk Run Coal Co., Inc.	WV0050903	D-2182	003	12/31/2008	Aluminum, Total	Monthly	0.43	3.14	630%	31	38°0'46"	81°33'53"	Little Elk Creek
Elk Run Coal Co., Inc.	WV0050903	D-2182	003	12/31/2008	Total Suspended Solids	Monthly	35	121	246%	31	38°0'46"	81°33'53"	Little Elk Creek
Elk Run Coal Co., Inc.	WV0050903	D-2182	003	1/5/09	Aluminum, Total	Daily	0.75	0.91	21%	1	38°0'46"	81°33'53"	Little Elk Creek
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	1/31/2008	Aluminum, Total	Monthly	0.43	0.62	44%	31	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	6/30/2008	Aluminum, Total	Monthly	0.43	0.57	33%	30	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	7/2/08	Aluminum, Total	Daily	0.75	1.02	36%	1	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	7/31/2008	Aluminum, Total	Monthly	0.43	0.705	64%	31	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	8/31/2008	Aluminum, Total	Monthly	0.43	0.665	55%	31	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	9/18/08	Aluminum, Total	Daily	0.75	0.99	32%	1	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	9/30/2008	Aluminum, Total	Monthly	0.43	0.64	49%	30	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	10/31/2008	Aluminum, Total	Monthly	0.43	0.46	7%	31	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	12/30/08	Aluminum, Total	Daily	0.75	1.19	59%	1	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	12/30/08	Iron, Total	Daily	2.46	4.35	77%	1	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	12/31/2008	Aluminum, Total	Monthly	0.43	0.8625	101%	31	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	12/31/2008	Iron, Total	Monthly	1.42	1.65	16%	31	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	12/31/08	Aluminum, Total	Daily	0.75	0.93	24%	1	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	1/22/09	Aluminum, Total	Daily	0.75	0.78	4%	1	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	1/31/2009	Aluminum, Total	Monthly	0.43	0.5267	22%	31	38°0'35"	81°34'6"	Little Elk Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	4/21/2011	Aluminum, Total	Daily	2.6800	2.72	1%	1	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	5/9/2011	Iron, Total	Daily	2.4600	2.54	3%	1	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	7/22/2011	Aluminum, Total	Daily	2.6800	3.07	15%	1	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	O-5042-93-P-470	005	7/31/2011	Aluminum, Total	Monthly	1.55	1.94	25%	31	38°0'35"	81°34'6"	Little Elk Ck
Elk Run Coal Co., Inc.	WV0050903	P-470	006	2/28/2008	Total Suspended Solids	Monthly	35	42.5	21%	28	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	006	3/5/08	Total Suspended Solids	Daily	70	114	63%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	006	11/17/08	Aluminum, Total	Daily	0.75	0.95	27%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	006	11/30/2008	Aluminum, Total	Monthly	0.43	0.74	72%	30	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	006	11/30/2008	Total Suspended Solids	Monthly	35	47	34%	30	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	006	1/14/09	Aluminum, Total	Daily	0.75	0.92	23%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	401	3/18/08	BOD	Daily	60	82.93	38%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	401	3/18/08	Fecal Coliform	Daily	400	3,300.00	725%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	401	3/18/08	Total Suspended Solids	Daily	60	90	50%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	3/31/09	BOD, 5-Day 20 Deg.C	Daily	0.36	0.77	114%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	3/31/09	BOD, 5-Day 20 Deg.C	Daily	60	64.53	8%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	3/31/09	Flow, in Conduit or thru plant	Daily	0.00072	0.001	39%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	401	9/28/09	BOD, 5-Day 20 Deg.C	Daily	60	99.13	65%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	401	9/28/09	BOD, 5-Day 20 Deg.C	Daily	227.1	420.5	85%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	401	9/28/09	Chlorine, Total Residual	Daily	28	90	221%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	401	9/30/09	U BOD	Daily	4.74	5.0500368	7%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	9/30/09	BOD, 5-Day 20 Deg.C	Daily	0.36	1.19	231%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	9/30/2009	BOD, 5-Day 20 Deg.C	Monthly	0.18	1.190551	561%	30	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	9/30/2009	BOD, 5-Day 20 Deg.C	Monthly	30	99.13	230%	30	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	9/30/2009	Fecal Coliform	Monthly	200	300	50%	30	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	9/30/09	Flow, in Conduit or thru plant	Daily	0.00072	0.001	39%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	9/30/2009	Total Suspended Solids	Monthly	0.18	0.33628	87%	30	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	D-2182	401	12/10/09	Fecal Coliform	Daily	400	580	45%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	401	12/10/09	Chlorine, Total Residual	Daily	28	30	7%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	12/31/2009	Fecal Coliform	Monthly	200	290.5	45%	31	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	12/31/09	Flow, in Conduit or thru plant	Daily	0.00072	0.001	39%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	12/31/09	Total Suspended Solids	Daily	0.36	0.6	67%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	U003483	401	12/31/2009	Total Suspended Solids	Monthly	0.18	0.342285	90%	31	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	401	3/31/10	Flow, in Conduit or thru plant	Daily	0.00072	0.0014	94%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	P-470	401	6/2/10	Chlorine, Total Residual	Daily	28	60	114%	1	38°0'54"	81°34'20"	Coal Rv
Elk Run Coal Co., Inc.	WV0050903	D-2182	402	9/28/09	Chlorine, Total Residual	Daily	28	60	114%	1	38°0'35"	81°34'6"	Little Elk Creek
Elk Run Coal Co., Inc.	WV0050903	D-2182	402	3/31/10	Flow, in Conduit or thru plant	Daily	0.001	0.0014	40%	1	38°0'35"	81°34'6"	Little Elk Creek
Elk Run Coal Co., Inc.	WV0050903	D-2182	407	9/28/09	Fecal Coliform	Daily	200	3700	1750%	1	37°57'41"	81°34'0"	Little Elk Creek

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	1/24/08	Aluminum, Total	Daily	0.75	1.78	137%	1	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	1/31/2008	Aluminum, Total	Monthly	0.43	0.995	131%	31	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	2/28/2008	Aluminum, Total	Monthly	0.43	0.54	26%	28	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	3/31/2008	Aluminum, Total	Monthly	0.43	0.45	5%	31	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	4/30/2008	Aluminum, Total	Monthly	0.43	0.565	31%	30	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	5/31/2008	Aluminum, Total	Monthly	0.43	0.435	1%	31	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	6/4/08	Aluminum, Total	Daily	0.75	0.85	13%	1	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	6/30/2008	Aluminum, Total	Monthly	0.43	0.685	59%	30	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	7/31/2008	Aluminum, Total	Monthly	0.43	0.445	3%	31	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	12/13/08	Aluminum, Total	Daily	0.75	1.54	105%	1	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	12/29/08	Aluminum, Total	Daily	0.75	0.93	24%	1	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	12/30/08	Aluminum, Total	Daily	0.75	0.93	24%	1	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	12/31/2008	Aluminum, Total	Monthly	0.43	1.006	134%	31	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	1/27/09	Aluminum, Total	Daily	0.75	1.02	36%	1	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	1/31/2009	Aluminum, Total	Monthly	0.43	0.87	102%	31	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	008	2/28/2009	Aluminum, Total	Monthly	0.43	0.635	48%	28	38°4'38"	81°39'51"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	1/31/2008	Aluminum, Total	Monthly	0.43	1.54	258%	31	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	4/8/08	Aluminum, Total	Daily	0.75	1.31	75%	1	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	4/8/08	pH	Daily	6	5.79	4%	1	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	4/23/08	Aluminum, Total	Daily	0.75	1.3	73%	1	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	4/23/08	pH	Daily	6	5.58	7%	1	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	4/30/2008	Aluminum, Total	Monthly	0.43	1.305	203%	30	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	7/3/08	Aluminum, Total	Daily	0.75	1.23	64%	1	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	7/31/2008	Aluminum, Total	Monthly	0.43	0.74	72%	31	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	9/30/2008	Total Suspended Solids	Monthly	35	50	43%	30	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	12/13/08	Aluminum, Total	Daily	0.75	1.14	52%	1	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	12/31/2008	Aluminum, Total	Monthly	0.43	0.58	35%	31	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	1/13/09	Aluminum, Total	Daily	0.75	1	33%	1	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	1/31/2009	Aluminum, Total	Monthly	0.43	0.655	52%	31	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	2/10/09	Aluminum, Total	Daily	0.75	0.92	23%	1	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	011	2/28/2009	Aluminum, Total	Monthly	0.43	0.775	80%	28	38°4'53"	81°39'20"	Sandlick Ck/Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	1/23/08	Aluminum, Total	Daily	0.75	0.83	11%	1	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	1/31/2008	Aluminum, Total	Monthly	0.43	0.83	93%	31	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	2/6/08	Aluminum, Total	Daily	0.75	1.52	103%	1	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	2/6/08	Total Suspended Solids	Daily	70	78	11%	1	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	2/28/2008	Aluminum, Total	Monthly	0.43	1.52	253%	28	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	2/28/2008	Total Suspended Solids	Monthly	35	78	123%	28	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	3/26/08	Aluminum, Total	Daily	0.75	0.85	13%	1	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	3/31/2008	Aluminum, Total	Monthly	0.43	0.85	98%	31	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	5/31/2008	Aluminum, Total	Monthly	0.43	0.65	51%	31	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	7/31/2008	Aluminum, Total	Monthly	0.43	0.57	33%	31	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	8/31/2008	Aluminum, Total	Monthly	0.43	0.52	21%	31	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	9/30/2008	Aluminum, Total	Monthly	0.43	0.4967	16%	30	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	11/30/2008	Aluminum, Total	Monthly	0.43	0.605	41%	30	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	1/27/09	Aluminum, Total	Daily	0.75	1.16	55%	1	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	1/31/2009	Aluminum, Total	Monthly	0.43	0.69	60%	31	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	2/11/09	Aluminum, Total	Daily	0.75	1.2	60%	1	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	2/24/09	Aluminum, Total	Daily	0.75	1.6	113%	1	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	2/28/2009	Aluminum, Total	Monthly	0.43	1.4	226%	28	38°3'28"	81°40'21"	George Br
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	015	5/31/2009	Aluminum, Total	Monthly	0.43	0.5525	28%	31	38°3'28"	81°40'21"	George Br

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	017	1/31/2008	Aluminum, Total	Monthly	0.43	0.44	2%	31	38°3'52"	81°39'1"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	017	2/28/2008	Aluminum, Total	Monthly	0.43	0.64	49%	28	38°3'52"	81°39'1"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	017	6/30/2008	Aluminum, Total	Monthly	0.43	0.6	40%	30	38°3'52"	81°39'1"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	2/28/2008	Aluminum, Total	Monthly	0.43	0.46	7%	28	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	2/28/2008	Manganese, Total	Monthly	2	2.65	33%	28	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	4/10/08	Aluminum, Total	Daily	0.75	0.76	1%	1	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	4/10/08	Manganese, Total	Daily	3.47	5.05	46%	1	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	4/30/2008	Aluminum, Total	Monthly	0.43	0.76	77%	30	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	4/30/2008	Manganese, Total	Monthly	2	5.05	153%	30	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	5/21/08	Manganese, Total	Daily	3.47	5.52	59%	1	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	5/31/2008	Aluminum, Total	Monthly	0.43	0.72	67%	31	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	5/31/2008	Manganese, Total	Monthly	2	5.52	176%	31	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	6/30/2008	Aluminum, Total	Monthly	0.43	0.61	42%	30	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	6/30/2008	Manganese, Total	Monthly	2	3.24	62%	30	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV0094668	S-6011-89/S-601	021	12/23/08	Aluminum, Total	Daily	0.75	0.76	1%	1	38°3'31"	81°40'9"	Laurel Ck
Elk Run Coal Co., Inc.	WV1011111	U-5022-00	003	7/15/08	Aluminum, Total	Daily	0.75	0.94	25%	1	37°58'29"	81°33'29"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	U-5022-00	003	7/31/2008	Aluminum, Total	Monthly	0.43	0.94	119%	31	37°58'29"	81°33'29"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	U-5022-00	003	12/31/2008	Aluminum, Total	Monthly	0.43	0.685	59%	31	37°58'29"	81°33'29"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	U-5022-00	003	1/12/09	Aluminum, Total	Daily	0.75	0.79	5%	1	37°58'29"	81°33'29"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	004	1/26/2012	Aluminum, Total	Daily	0.7500	1.38	84%	1	37-58-39	81-33-05	Elk Run
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	004	1/26/2012	Aluminum, Total	Daily	0.7500	1.2	60%	1	37-58-39	81-33-05	Elk Run
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	004	1/31/2012	Aluminum, Total	Monthly	0.43	0.7786	81%	31	37-58-39	81-33-05	Elk Run
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	004	2/14/2012	Aluminum, Total	Daily	0.7500	1.53	104%	1	37-58-39	81-33-05	Elk Run
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	1/30/08	Aluminum, Total	Daily	0.75	6.91	821%	1	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	1/30/08	Iron, Total	Daily	2.89	8.71	201%	1	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	1/30/08	pH	Daily	6	3.9	35%	1	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	1/31/2008	Aluminum, Total	Monthly	0.43	3.485	710%	31	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	1/31/2008	Iron, Total	Monthly	1.67	4.365	161%	31	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	2/19/08	Aluminum, Total	Daily	0.75	1.47	96%	1	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	2/28/2008	Aluminum, Total	Monthly	0.43	0.885	106%	28	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	3/29/08	Aluminum, Total	Daily	0.75	0.93	24%	1	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	3/29/08	pH	Daily	9	10.23	14%	1	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	3/31/2008	Aluminum, Total	Monthly	0.43	0.55	28%	31	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	4/1/08	pH	Daily	9	10.23	14%	1	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	4/30/08	Aluminum, Total	Daily	0.75	14.25	1800%	1	37°58'40"	81°33'38"	Elk Rn

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	4/30/2008	Aluminum, Total	Monthly	0.43	7.17	1567%	30	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	5/31/2008	Aluminum, Total	Monthly	0.43	0.47	9%	31	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	1/12/09	Aluminum, Total	Daily	0.75	0.77	3%	1	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	5/28/09	Aluminum, Total	Daily	0.75	1.04	39%	1	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	12/24/09	Aluminum, Total	Daily	0.75	1.3	73%	1	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1011111	O-5078-91	009	12/31/2009	Aluminum, Total	Monthly	0.43	0.435	1%	31	37°58'40"	81°33'38"	Elk Rn
Elk Run Coal Co., Inc.	WV1013441		003	9/5/08	Aluminum, Total	Daily	0.75	0.91	21%	1	38°3'37"	81°42'38"	Mudlick Fk
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	004	3/12/08	Aluminum, Total	Daily	0.75	1.83	144%	1	38° 3' 14"	81° 43' 8"	Stolling Fk/Laurel Fk
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	004	3/12/08	Manganese, Total	Daily	3.47	19.76	469%	1	38° 3' 14"	81° 43' 8"	Stolling Fk/Laurel Fk
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	004	3/31/2008	Aluminum, Total	Monthly	0.43	1.83	326%	31	38° 3' 14"	81° 43' 8"	Stolling Fk/Laurel Fk
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	004	3/31/2008	Manganese, Total	Monthly	2	19.76	888%	31	38° 3' 14"	81° 43' 8"	Stolling Fk/Laurel Fk
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	007	3/31/2008	Aluminum, Total	Monthly	0.43	0.63	47%	31	38° 3' 33"	81° 44' 4"	Stolling Fk/Laurel Fk
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	017	3/12/08	Manganese, Total	Daily	3.47	3.87	12%	1	38° 3' 44"	81° 42' 43"	Mudlick Fk
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	019	2/26/08	pH	Daily	9	10	11%	1	38° 4' 8"	81° 42' 47"	Mudlick Fk
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	080	8/31/2008	Manganese, Total	Monthly	2	2.29	15%	31	38°2'22"	81°43'34"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	080	9/30/2008	Manganese, Total	Monthly	2	3.2	60%	30	38°2'22"	81°43'34"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	080	9/30/08	Manganese, Total	Daily	3.47	3.54	2%	1	38°2'22"	81°43'34"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	080	10/15/08	Manganese, Total	Daily	3.47	3.91	13%	1	38°2'22"	81°43'34"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	080	10/31/2008	Manganese, Total	Monthly	2	3.438	72%	31	38°2'22"	81°43'34"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	087	12/17/08	Aluminum, Total	Daily	0.75	1.05	40%	1	38°2'47"	81°44'9"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	087	1/28/09	Aluminum, Total	Daily	0.75	0.85	13%	1	38°2'47"	81°44'9"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	087	1/31/2009	Aluminum, Total	Monthly	0.43	0.58	35%	31	38°2'47"	81°44'9"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	088	2/7/08	Aluminum, Total	Daily	0.75	0.79	5%	1	38°2'48"	81°44'10"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	088	2/28/2008	Aluminum, Total	Monthly	0.43	0.435	1%	28	38°2'48"	81°44'10"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	088	12/17/08	Aluminum, Total	Daily	0.75	0.89	19%	1	38°2'48"	81°44'10"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	088	1/28/09	Aluminum, Total	Daily	0.75	1.08	44%	1	38°2'48"	81°44'10"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013441	S-5057-92	088	1/31/2009	Aluminum, Total	Monthly	0.43	0.675	57%	31	38°2'48"	81°44'10"	Robinson Ck
Elk Run Coal Co., Inc.	WV1013483	U-5024-00	001	4/30/08	Aluminum, Total	Daily	0.75	1.43	91%	1	37°57'35"	81°34'19"	Elk Rn
Elk Run Coal Co., Inc.	WV1013483	U-5024-00	001	4/30/2008	Aluminum, Total	Monthly	0.43	0.7165	67%	30	37°57'35"	81°34'19"	Elk Rn
Elk Run Coal Co., Inc.	WV1013483	U502400	001	8/10/2012	Aluminum, Total	Daily	1.1900	1.2000	0.84%	1	37°57'35"	81°34'19"	Elk Rn
Elk Run Coal Co., Inc.	WV1014897	U-3018-94	001	12/31/2008	Aluminum, Total	Monthly	0.43	0.44	2%	31	37°58'12"	81°27'15"	Laurel Branch/Clear Fork
Elk Run Coal Co., Inc.	WV1014897	U-3018-94	001	1/26/10	Aluminum, Total	Daily	0.75	0.98	31%	1	37°58'12"	81°27'15"	Laurel Branch/Clear Fork
Elk Run Coal Co., Inc.	WV1014897	U-3018-94	001	1/31/2010	Aluminum, Total	Monthly	0.43	0.465	8%	31	37°58'12"	81°27'15"	Laurel Branch/Clear Fork
Elk Run Coal Co., Inc.	WV1015848	U-5011-98	032	1/31/2008	Aluminum, Total	Monthly	0.08	0.1	25%	31	37°56'30"	81°35'27"	Jarrell Br
Elk Run Coal Co., Inc.	WV1015848	U-5011-98	032	9/30/2008	Iron, Total	Monthly	1.42	5.77	306%	30	37°56'30"	81°35'27"	Jarrell Br
Elk Run Coal Co., Inc.	WV1015848	U-5011-98	032	9/30/2008	Total Suspended Solids	Monthly	35	53	51%	30	37°56'30"	81°35'27"	Jarrell Br
Elk Run Coal Co., Inc.	WV1027668	U500305 (SMA)	001	4/30/2008	Manganese, Total	Monthly	2	2.125	6%	30	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U500305	001	6/30/2008	Aluminum, Total	Monthly	0.43	0.61	42%	30	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U500305 (SMA)	001	12/11/08	Aluminum, Total	Daily	0.75	0.76	1%	1	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	US00305(SMA)	001	12/31/2008	Aluminum, Total	Monthly	0.43	0.5	16%	31	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U-5003-05 (SMA)	001	2/8/10	Aluminum, Total	Daily	0.75	0.87	16%	1	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U500305 (SMA)	001	11/14/2011	Aluminum, Total	Daily	0.7500	1.23	64%	1	38°0'33"	81°32'58"	Roundbottom Br

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Elk Run Coal Co., Inc.	WV1027668	U-5003-05 (SMA)	006	5/11/10	Aluminum, Total	Daily	0.75	1.2	60%	1	37°59'51"	81°29'50"	Seng Ck
Elk Run Coal Co., Inc.	WV1027668	U-5003-05 (SMA)	006	5/26/10	Aluminum, Total	Daily	0.75	0.95	27%	1	37°59'51"	81°29'50"	Seng Ck
Elk Run Coal Co., Inc.	WV1027668	U500305	006	7/20/2011	Aluminum, Total	Daily	0.7500	1.17	56%	1	37°59'51"	81°29'50"	Seng Ck
Elk Run Coal Co., Inc.	WV1027668	U500305	006	7/31/2011	Aluminum, Total	Monthly	0.43	0.59	37%	31	37°59'51"	81°29'50"	Seng Ck
Elk Run Coal Co., Inc.	WV1027668	U500305	006	3/31/2012	Selenium	Monthly	4.7	5.6	19%	31	37°59'51"	81°29'50"	Seng Ck
Elk Run Coal Co., Inc.	WV1027668	U500305	006	6/1/2012	Selenium	Monthly	4.7000	4.9260	4.81%	30	37°59'51"	81°29'50"	Seng Ck
Elk Run Coal Co., Inc.	WV1027668	U-5003-05	401	3/31/09	BOD, 5-Day 20 Deg.C	Daily	10	13.26	33%	1	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U-5003-05	401	3/31/2009	BOD, 5-Day 20 Deg.C	Monthly	5	13.26	165%	31	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U-5003-05	401	9/30/2009	BOD, 5-Day 20 Deg.C	Monthly	5	8.33	67%	30	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U-5003-05	401	9/30/2009	Chlorine, Total Residual	Monthly	0.028	0.04	43%	30	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U-5003-05	401	12/31/2009	BOD, 5-Day 20 Deg.C	Monthly	5	6.415	28%	31	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U-5003-05	401	4/30/2010	BOD, 5-Day 20 Deg.C	Monthly	5	7.88	58%	30	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U-5003-05	401	7/31/2010	Nitrogen, Kjeldahl Total	Monthly	3	5	67%	31	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U-5003-05	401	8/31/10	Fecal Coliform	Daily	200	6000	2900%	1	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1027668	U-5003-05	401	8/31/2010	Fecal Coliform	Monthly	200	6000	2900%	31	38°0'33"	81°32'58"	Roundbottom Br
Elk Run Coal Co., Inc.	WV1029738	U-5022-07	001	2/7/11	Aluminum, Total	Daily	0.75	0.91	21%	1	38° 0' 0"	81° 29' 35"	Seng Ck
Elk Run Coal Co., Inc.	WV1029738	U-5022-07	001	2/29/2012	Aluminum, Total	Monthly	0.43	0.465	8%	28	38° 0' 0"	81° 29' 35"	Seng Ck
Elk Run Coal Co., Inc.	WV1029738	U-5022-07	001	3/15/2012	Aluminum, Total	Daily	0.7500	0.97	29%	1	38° 0' 0"	81° 29' 35"	Seng Ck
Elk Run Coal Co., Inc.	WV1029738	U-5022-07	001	3/29/2012	Aluminum, Total	Daily	0.7500	0.92	23%	1	38° 0' 0"	81° 29' 35"	Seng Ck
Elk Run Coal Co., Inc.	WV1029738	U-5022-07	001	3/31/2012	Aluminum, Total	Monthly	0.43	0.502	17%	31	38° 0' 0"	81° 29' 35"	Seng Ck
Elk Run Coal Co., Inc.	WV1029738	U-5022-07	001	5/3/2012	Aluminum, Total	Daily	0.7500	0.89	19%	1	38° 0' 0"	81° 29' 35"	Seng Ck
Elk Run Coal Co., Inc.	WV1029738	U502207	001	7/23/2012	Aluminum, Total	Daily	0.7500	0.7900	5.33%	1	38° 0' 0"	81° 29' 35"	Seng Ck
Elk Run Coal Co., Inc.	WV1029738	U502207	001	2/14/2013	Total Aluminum (1105)	Daily	0.7500	0.8800	17.33%	1	38° 0' 0"	81° 29' 35.0000"	Seng Ck
Elk Run Coal Co., Inc.	WV1029738	U502207	001	2/18/2013	Total Aluminum (1105)	Daily	0.7500	0.8500	13.33%	1	38° 0' 0"	81° 29' 35.0000"	Seng Ck
Elk Run Coal Co., Inc.	WV1029738	U502207	001	2/28/2013	Total Aluminum (1105)	Monthly	0.4300	0.6025	40.12%	28	38° 0' 0"	81° 29' 35.0000"	Seng Ck
Goals Coal Co.	WV0042846	D-66-82/0-18-85	037	2/7/08	Aluminum, Total	Daily	0.75	0.8	7%	1	37°52'39"	81°31'40"	Marsh Fk
Goals Coal Co.	WV0042846	D-66-82/0-18-85	037	2/28/2008	Aluminum, Total	Monthly	0.43	0.58	35%	28	37°52'39"	81°31'40"	Marsh Fk
Goals Coal Co.	WV0042846	D-66-82/0-18-85	037	3/31/2008	Aluminum, Total	Monthly	0.43	0.62	44%	31	37°52'39"	81°31'40"	Marsh Fk
Goals Coal Co.	WV0042846	D-66-82/0-18-85	037	4/30/2008	Aluminum, Total	Monthly	0.43	0.46	7%	30	37°52'39"	81°31'40"	Marsh Fk
Goals Coal Co.	WV0042846	D-66-82/0-18-85	037	1/27/09	Aluminum, Total	Daily	0.75	0.83	11%	1	37°52'39"	81°31'40"	Marsh Fk
Green Valley Coal Co.	WV0001104	U-148-82	006	11/13/08	Total Suspended Solids	Daily	70	82	17%	1	38°9'12"	80°41'9"	Brushy Meadow Ck
Green Valley Coal Co.	WV0001104	U-148-82	009	3/26/08	Total Settleable Solids	Daily	0.5	1	100%	1	38° 10' 15"	80° 41' 28"	Grassy Ck/Hominy Ck
Green Valley Coal Co.	WV0001104	U-148-82	014	5/23/08	Total Suspended Solids	Daily	70	81	16%	1	38°10'18"	80°42'2"	Grassy Ck/Hominy Ck
Green Valley Coal Co.	WV0001104	U-148-82	014	5/31/2008	Total Suspended Solids	Monthly	35	42	20%	31	38°10'18"	80°42'2"	Grassy Ck/Hominy Ck
Green Valley Coal Co.	WV0001104	U-148-82	015	4/29/08	Total Suspended Solids	Daily	70	318	354%	1	38°10'16"	80°41'32"	Grassy Ck/Hominy Ck
Green Valley Coal Co.	WV0001104	U-148-82	015	4/30/2008	Total Suspended Solids	Monthly	35	167.5	379%	30	38°10'16"	80°41'32"	Grassy Ck/Hominy Ck
Green Valley Coal Co.	WV0001104	U-148-82	015	5/31/2008	Total Suspended Solids	Monthly	35	36	3%	31	38°10'16"	80°41'32"	Grassy Ck/Hominy Ck
Green Valley Coal Co.	WV0001104	U-148-82	015	8/7/08	Total Suspended Solids	Daily	70	77	10%	1	38°10'16"	80°41'32"	Grassy Ck/Hominy Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Green Valley Coal Co.	WV0001104	U-148-82	020	2/21/08	pH	Daily	6	5.99	0.1667%	1	38° 14' 33"	80° 41' 45"	Little Laurel Ck
Green Valley Coal Co.	WV0001104	U-148-82	020	2/29/08	pH	Daily	6	5.95	1%	1	38° 14' 33"	80° 41' 45"	Little Laurel Ck
Green Valley Coal Co.	WV0001104	U-148-82	021	1/31/08	pH	Daily	6	5.88	2%	1	38°14'33"	80°41'46"	Little Laurel Ck
Green Valley Coal Co.	WV0002976	R070700	001	2/4/2013	Total Manganese (1055)	Daily	4.0000	4.7500	18.75%	1	38° 16' 13.0000"	80° 40' 55.0000"	Gauley Rv
Green Valley Coal Co.	WV0002976	R-707 (HOST), R	017	8/31/2008	Manganese, Total	Monthly	2	2.165	8%	31	38°15'55"	80°44'1"	Little Laurel Ck
Green Valley Coal Co.	WV0002976	R-707 (HOST), R	017	9/30/2008	Manganese, Total	Monthly	2	2.92	46%	30	38°15'55"	80°44'1"	Little Laurel Ck
Green Valley Coal Co.	WV0002976	R-707 (HOST), R	017	12/17/08	Total Suspended Solids	Daily	70	133	90%	1	38°15'55"	80°44'1"	Little Laurel Ck
Green Valley Coal Co.	WV0002984	P-642, R-690, R	001	4/30/2008	Aluminum, Total	Monthly	0.08	0.45	463%	30	38°15'30"	80°39'43"	Panther Ck
Green Valley Coal Co.	WV0002984	P-642, R-690, R	015	12/2/08	Manganese, Total	Daily	1.73	2.7	56%	1	38°15'9"	80°39'47"	Panther Ck
Green Valley Coal Co.	WV0002984	P-642, R-690, R	015	1/21/10	Manganese, Total	Daily	1.73	1.84	6%	1	38°15'9"	80°39'47"	Panther Ck
Green Valley Coal Co.	WV0052094	O-155-83	001	12/2/08	Aluminum, Total	Daily	0.33	0.9	173%	1	38°3'29"	80°41'14"	Hominy Ck
Green Valley Coal Co.	WV0052094	O-155-83	001	12/31/2008	Aluminum, Total	Monthly	0.19	0.4033	112%	31	38°3'29"	80°41'14"	Hominy Ck
Green Valley Coal Co.	WV0052094	O-155-83	001	5/12/09	Aluminum, Total	Daily	0.33	0.34	3%	1	38°3'29"	80°41'14"	Hominy Ck
Green Valley Coal Co.	WV0052094	O-155-83	005	1/31/2008	Aluminum, Total	Monthly	0.43	0.575	34%	31	38° 6' 29"	80° 40' 50"	Colt Ridge Br
Green Valley Coal Co.	WV0060097	O-10-83	001	1/31/08	Aluminum, Total	Daily	0.28	0.48	71%	1	38°6'12"	80°42'5"	Hominy Ck
Green Valley Coal Co.	WV0060097	O-10-83	001	1/31/2008	Aluminum, Total	Monthly	0.16	0.31	94%	31	38°6'12"	80°42'5"	Hominy Ck
Green Valley Coal Co.	WV0060097	O-10-83	001	7/8/08	Aluminum, Total	Daily	0.28	0.29	4%	1	38°6'12"	80°42'5"	Hominy Ck
Green Valley Coal Co.	WV0060097	O-10-83	001	7/31/2008	Aluminum, Total	Monthly	0.16	0.1833	15%	31	38°6'12"	80°42'5"	Hominy Ck
Green Valley Coal Co.	WV0060097	O-10-83	001	12/15/08	Aluminum, Total	Daily	0.54	0.65	20%	1	38°6'12"	80°42'5"	Hominy Ck
Green Valley Coal Co.	WV0060097	O-10-83	001	1/29/09	Aluminum, Total	Daily	0.54	0.87	61%	1	38°6'12"	80°42'5"	Hominy Ck
Green Valley Coal Co.	WV0060097	O-10-83	001	1/29/09	Aluminum, Total	Daily	0.54	0.97	80%	1	38°6'12"	80°42'5"	Hominy Ck
Green Valley Coal Co.	WV0060097	O-10-83	001	1/31/2009	Aluminum, Total	Monthly	0.31	0.3345	8%	31	38°6'12"	80°42'5"	Hominy Ck
Green Valley Coal Co.	WV0060097	O-10-83	002	2/1/11	Aluminum, Total	Daily	0.39	0.4	3%	1	38° 6' 5"	80° 41' 45"	Hominy Ck
Green Valley Coal Co.	WV0060097	O-10-83	002	12/28/11	Aluminum, Total	Daily	0.3900	0.75	92%	1	38° 6' 5"	80° 41' 45"	Hominy Ck
Green Valley Coal Co.	WV0060097	O-10-83	002	12/31/2011	Aluminum, Total	Monthly	0.22	0.75	241%	31	38° 6' 5"	80° 41' 45"	Hominy Ck
Green Valley Coal Co.	WV0060097	O-10-83	008	2/28/2009	Iron, Total	Monthly	0.47	0.48	2%	28	38°6'35"	80°41'44"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	008	4/30/2009	Iron, Total	Monthly	0.47	0.525	12%	30	38°6'35"	80°41'44"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	008	5/31/2009	Iron, Total	Monthly	0.47	0.53	13%	31	38°6'35"	80°41'44"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	008	6/30/09	Iron, Total	Daily	0.82	0.9	10%	1	38°6'35"	80°41'44"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	008	6/30/2009	Iron, Total	Monthly	0.47	0.68	45%	30	38°6'35"	80°41'44"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	1/31/2008	Aluminum, Total	Monthly	0.29	0.32	10%	31	38°6'49"	80°41'30"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	3/13/08	Aluminum, Total	Daily	0.5	0.61	22%	1	38°6'49"	80°41'30"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	3/31/2008	Aluminum, Total	Monthly	0.29	0.38	31%	31	38°6'49"	80°41'30"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	4/10/08	Aluminum, Total	Daily	0.5	0.57	14%	1	38°6'49"	80°41'30"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	4/30/2008	Aluminum, Total	Monthly	0.29	0.57	97%	30	38°6'49"	80°41'30"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	5/23/08	Aluminum, Total	Daily	0.5	0.94	88%	1	38°6'49"	80°41'30"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	5/31/2008	Aluminum, Total	Monthly	0.29	0.55	90%	31	38°6'49"	80°41'30"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	6/30/2008	Aluminum, Total	Monthly	0.29	0.37	28%	30	38°6'49"	80°41'30"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	7/17/08	Total Suspended Solids	Daily	70	137	96%	1	38°6'49"	80°41'30"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	7/31/2008	Aluminum, Total	Monthly	0.29	0.4	38%	31	38°6'49"	80°41'30"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	7/31/2008	Total Suspended Solids	Monthly	35	78.5	124%	31	38°6'49"	80°41'30"	Hominy Creek
Green Valley Coal Co.	WV0060097	O-10-83	009	4/7/09	Aluminum, Total	Daily	0.54	0.66	22%	1	38°6'49"	80°41'30"	Hominy Creek

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Green Valley Coal Co.	WV0066150	O-86-83	002	7/29/08	pH	Daily	10	10.1	1%	1	38°2'39"	80°44'6"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150	O-86-83	002	1/23/09	pH	Daily	10	10.57	6%	1	38°2'39"	80°44'6"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150	O-86-83	002	7/31/10	Aluminum, Total	Daily	0.14	0.81	479%	1	38°2'39"	80°44'6"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150	O-86-83	002	7/31/2010	Aluminum, Total	Monthly	0.08	0.725	806%	31	38°2'39"	80°44'6"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150	O-86-83	002	8/31/10	Aluminum, Total	Daily	0.14	0.36	157%	1	38°2'39"	80°44'6"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150	O-86-83	002	8/31/2010	Aluminum, Total	Monthly	0.08	0.36	350%	31	38°2'39"	80°44'6"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150	O-86-83	002	9/30/10	Aluminum, Total	Daily	0.14	0.61	336%	1	38°2'39"	80°44'6"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150	O-86-83	002	9/30/2010	Aluminum, Total	Monthly	0.08	0.535	569%	30	38°2'39"	80°44'6"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150		003	7/31/10	Aluminum, Total	Daily	0.14	0.22	57%	1	38° 2' 45"	80° 44' 10"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150		003	7/31/2010	Aluminum, Total	Monthly	0.08	0.14	75%	31	38° 2' 45"	80° 44' 10"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150		003	8/31/10	Aluminum, Total	Daily	0.14	0.33	136%	1	38° 2' 45"	80° 44' 10"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150		003	8/31/2010	Aluminum, Total	Monthly	0.08	0.22	175%	31	38° 2' 45"	80° 44' 10"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150		003	9/30/10	Aluminum, Total	Daily	0.14	0.24	71%	1	38° 2' 45"	80° 44' 10"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150		003	9/30/2010	Aluminum, Total	Monthly	0.08	0.145	81%	30	38° 2' 45"	80° 44' 10"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150	O-86-83	004	1/31/2008	Total Suspended Solids	Monthly	35	113	223%	31	38° 2' 34"	80° 44' 5"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150		008	7/31/2010	Aluminum, Total	Monthly	0.08	0.11	38%	31	38° 3' 13"	80° 42' 33"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150		008	8/31/10	Aluminum, Total	Daily	0.14	0.16	14%	1	38° 3' 13"	80° 42' 33"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150		008	8/31/2010	Aluminum, Total	Monthly	0.08	0.155	94%	31	38° 3' 13"	80° 42' 33"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150		008	9/30/10	Aluminum, Total	Daily	0.14	0.15	7%	1	38° 3' 13"	80° 42' 33"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV0066150		008	9/30/2010	Aluminum, Total	Monthly	0.08	0.1	25%	30	38° 3' 13"	80° 42' 33"	Meadow Ck/Meadow Rv
Green Valley Coal Co.	WV1000268	U005985	002	8/26/08	Total Suspended Solids	Daily	70	85	21%	1	38°3'30"	80°45'3"	Burdette Ck
Green Valley Coal Co.	WV1000268	U005985	002	8/31/2008	Total Suspended Solids	Monthly	35	43	23%	31	38°3'30"	80°45'3"	Burdette Ck
Green Valley Coal Co.	WV1000268	U005985	002	8/31/2008	Aluminum, Total	Monthly	0.43	0.49	14%	31	38°3'30"	80°45'3"	Burdette Ck
Green Valley Coal Co.	WV1000268	U-59-85 (HOST), U-59-	005	1/31/2008	Aluminum, Total	Monthly	0.43	1.39	223%	31	38°3'32"	80°44'57"	Burdette Ck
Green Valley Coal Co.	WV1000268	85(HOST),	005	12/31/2008	Aluminum, Total	Monthly	0.43	0.48	12%	31	38°3'32"	80°44'57"	Burdette Ck
Green Valley Coal Co.	WV1000268	H-0356-00	006	1/31/2008	Iron, Total	Monthly	1.42	4.38	208%	31	38° 5' 46"	80° 44' 37"	Kern Br
Green Valley Coal Co.	WV1000268		401	6/30/2008	BOD, 5-Day 20 Deg.C	Monthly	0.05	0.06	20%	30	38°3'33"	80°45'19"	Burdette Ck
Green Valley Coal Co.	WV1000268		401	6/30/2008	BOD, 5-Day 20 Deg.C	Monthly	5	5.29	6%	30	38°3'33"	80°45'19"	Burdette Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Green Valley Coal Co.	WV1000268		401	6/30/08	Flow, in Conduit or thru plant	Daily	0.0011	0.0014	27%	1	38°3'33"	80°45'19"	Burdette Ck
Green Valley Coal Co.	WV1000454	U-3066-86	001	2/12/09	Aluminum, Total	Daily	0.75	0.87	16%	1	38°15'43"	80°39'44"	Bear Run/Panther Creek
Green Valley Coal Co.	WV1000454	U-3066-86	001	7/25/2011	Iron, Total	Daily	0.8200	0.99	21%	1	38°15'43"	80°39'44"	Bear Run/Panther Creek
Green Valley Coal Co.	WV1021851	U-3007-05	001	1/18/09	Iron, Total	Daily	0.36	0.37	3%	1	38°0'56"	80°38'7"	Big Clear Ck
Green Valley Coal Co.	WV1021851	U-3007-05	001	6/18/10	Iron, Total	Daily	0.36	0.48	33%	1	38°0'56"	80°38'7"	Big Clear Ck
Green Valley Coal Co.	WV1021851	U-3007-05	001	6/30/2010	Iron, Total	Monthly	0.21	0.2625	25%	30	38°0'56"	80°38'7"	Big Clear Ck
Green Valley Coal Co.	WV1021851	U-3007-05	001	5/4/2011	Iron, Total	Daily	0.3600	0.43	19%	1	38-00-56	80-38-07	Big Clear Creek
Green Valley Coal Co.	WV1022318	U-3014-07	001	8/20/09	pH	Daily	9	9.6	7%	1	38°9'50"	80°42'51"	Hominy Ck
Green Valley Coal Co.	WV1022318	U-3014-07	001	10/12/09	pH	Daily	9	9.12	1%	1	38°9'50"	80°42'51"	Hominy Ck
Green Valley Coal Co.	WV1022318	U-3014-07	001	3/25/10	Total Suspended Solids	Daily	70	93	33%	1	38°9'50"	80°42'51"	Hominy Ck
Green Valley Coal Co.	WV1022318	U-3014-07	001	3/31/2010	Total Suspended Solids	Monthly	35	47.5	36%	31	38°9'50"	80°42'51"	Hominy Ck
Green Valley Coal Co.	WV1022318	U301407	001	11/18/2012	Total Suspended Solids	Daily	70.0000	113.0000	61.43%	1	38°9'50"	80°42'51"	Hominy Ck
Greeyeagle Coal Co.	WV0096148		002	1/12/09	Aluminum, Total	Daily	0.14	0.87	521%	1	37°49'33"	82°23'8"	Upper Burning Ck
Greeyeagle Coal Co.	WV0096148		002	1/21/09	Aluminum, Total	Daily	0.14	0.19	36%	1	37°49'33"	82°23'8"	Upper Burning Ck
Greeyeagle Coal Co.	WV0096148		002	1/29/09	Aluminum, Total	Daily	0.14	0.92	557%	1	37°49'33"	82°23'8"	Upper Burning Ck
Greeyeagle Coal Co.	WV0096148		002	1/30/09	Aluminum, Total	Daily	0.14	1.16	729%	1	37°49'33"	82°23'8"	Upper Burning Ck
Greeyeagle Coal Co.	WV0096148		002	1/31/2009	Aluminum, Total	Monthly	0.08	0.785	881%	31	37°49'33"	82°23'8"	Upper Burning Ck
Greeyeagle Coal Co.	WV0096148		002	2/25/09	Aluminum, Total	Daily	0.75	0.86	15%	1	37°49'33"	82°23'8"	Upper Burning Ck
Greeyeagle Coal Co.	WV0096148		002	5/13/09	Aluminum, Total	Daily	0.75	1.58	111%	1	37°49'33"	82°23'8"	Upper Burning Ck
Greeyeagle Coal Co.	WV0096148		002	5/31/2009	Aluminum, Total	Monthly	0.43	1.06	147%	31	37°49'33"	82°23'8"	Upper Burning Ck
Greeyeagle Coal Co.	WV0096148	U-3004-89	005	3/14/08	pH	Daily	9	9.17	2%	1	37°49'35"	82°22'7"	Upper Burning Ck
Greeyeagle Coal Co.	WV0096148	EM-17. O-139-83	005	12/31/2008	Aluminum, Total	Monthly	0.08	0.1033	29%	31	37°49'35"	82°22'7"	Upper Burning Ck
Greeyeagle Coal Co.	WV0096148	U-3004-89	005	1/12/09	Aluminum, Total	Daily	0.14	0.23	64%	1	37°49'35"	82°22'7"	Upper Burning Ck
Greeyeagle Coal Co.	WV0096148	U-3004-89	005	2/10/10	Iron, Total	Daily	2.46	3.41	39%	1	37°49'35"	82°22'7"	Upper Burning Ck
Harlan Reclamation Services LLC	KY0003492	848-5434 848-5532	107	7/1/2012	Total Suspended Solids	Monthly	35.0000	45.1250	28.93%	31	36° 49' 17"	83° 14' 03"	Turtle Creek
Harlan Reclamation Services LLC	KY0003492	848-5434 848-5532	107	7/11/2012	Total Suspended Solids	Daily	70.0000	282.0000	302.86%	1	36° 49' 17"	83° 14' 03"	Turtle Creek
Harlan Reclamation Services LLC	KY0003492	848-5434 848-5532	107	7/11/2012	Iron, Total	Daily	4.0000	4.3500	8.75%	1	36° 49' 17"	83° 14' 03"	Turtle Creek
Harlan Reclamation Services LLC	KYG040560	848-5486	002	2/16/2012	Total Suspended Solids	Daily	70.0000	74	6%	1	36-55-40	83-57-54	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486	002	4/10/2012	Total Suspended Solids	Daily	70.0000	120	71%	1	36-55-40	83-57-54	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486 848-5522	002	7/1/2012	Total Suspended Solids	Monthly	35.0000	37.2000	6.29%	31	36-55-40	83-57-54	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486 848-5522	002	7/10/2012	Total Suspended Solids	Daily	70.0000	144.0000	105.71%	1	36-55-40	83-57-54	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486	003	2/16/2012	Total Suspended Solids	Daily	70.0000	72	3%	1	36-55-37	83-00-50	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486 848-5522	003	7/1/2012	Total Suspended Solids	Monthly	35.0000	88.5000	152.86%	31	36-55-37	83-00-50	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486 848-5522	003	7/10/2012	Total Suspended Solids	Daily	70.0000	173.0000	147.14%	1	36-55-37	83-00-50	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486	005	3/7/11	Iron, Total	Daily	4	4.25	6%	1	36.55.46	83.01.05	Cave Branch

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Harlan Reclamation Services LLC	KYG040560	848-5486	005	5/5/2011	Total Suspended Solids	Daily	70.0000	97	39%	1	36.55.46	83.01.05	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486	005	12/7/11	Iron, Total	Daily	4.0000	11.63	191%	1	36.55.46	83.01.05	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486	005	1/24/2012	Total Suspended Solids	Daily	70.0000	107	53%	1	36.55.46	83.01.05	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486	005	1/31/2012	Total Suspended Solids	Monthly	35	43.3333	24%	31	36.55.46	83.01.05	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486 848-5522	005	6/1/2012	Total Suspended Solids	Monthly	35.0000	86.0000	145.71%	30	36.55.46	83.01.05	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486 848-5522	005	6/5/2012	Total Suspended Solids	Daily	70.0000	86.0000	22.86%	1	36.55.46	83.01.05	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486 848-5522	005	7/1/2012	Total Suspended Solids	Monthly	35.0000	46.2500	32.14%	31	36.55.46	83.01.05	Cave Branch
Harlan Reclamation Services LLC	KYG040560	848-5486 848-5522	005	7/10/2012	Total Suspended Solids	Daily	70.0000	112.0000	60.00%	1	36.55.46	83.01.05	Cave Branch
Harlan Reclamation Services LLC	KYG041489	848-5487	001	5/31/2011	Total Suspended Solids	Monthly	35	37	6%	31	36-56-47	82-59-50	Cloverlick Creek
Harlan Reclamation Services LLC	KYG041489	848-5487	002	3/17/11	Total Suspended Solids	Daily	70	78	11%	1	36.56.32	82.59.38	Cloverlick Creek
Harlan Reclamation Services LLC	KYG041489	848-5487	002	12/20/11	Total Suspended Solids	Daily	70.0000	81	16%	1	36.56.32	82.59.38	Cloverlick Creek
Harlan Reclamation Services LLC	KYG041489	848-5487	002	12/31/2011	Total Suspended Solids	Monthly	35	54.75	56%	31	36.56.32	82.59.38	Cloverlick Creek
Harlan Reclamation Services LLC	KYG045425	848-5488	003	5/5/2011	Total Suspended Solids	Daily	70.0000	76	9%	1	36.55.47	83.00.19	Cave Branch
Harlan Reclamation Services LLC	KYG045425	848-5488	003	5/19/2011	Total Suspended Solids	Daily	70.0000	83	19%	1	36.55.47	83.00.19	Cave Branch
Harlan Reclamation Services LLC	KYG045425	848-5488	003	5/25/11	Total Suspended Solids	Daily	70	155	121%	1	36.55.47	83.00.19	Cave Branch
Harlan Reclamation Services LLC	KYG045425	848-5488	003	5/31/2011	Total Suspended Solids	Monthly	35	46.833	34%	31	36.55.47	83.00.19	Cave Branch
Harlan Reclamation Services LLC	KYG045425	848-5488	003	2/16/2012	Total Suspended Solids	Daily	70.0000	90	29%	1	36.55.47	83.00.19	Cave Branch
Harlan Reclamation Services LLC	KYG045425	848-5488 848-5524	004	7/1/2012	Total Suspended Solids	Monthly	35.0000	51.8000	48.00%	31	36 55' 38"	83 00' 33"	Cave Branch
Harlan Reclamation Services LLC	KYG045425	848-5488 848-5524	004	7/10/2012	Total Suspended Solids	Daily	70.0000	173.0000	147.14%	1	36 55' 38"	83 00' 33"	Cave Branch
Harlan Reclamation Services LLC	KYG045425	848-5488	005	2/16/2012	Total Suspended Solids	Daily	70.0000	74	6%	1	36-55-40	83-00-40	Cave Branch
Harlan Reclamation Services LLC	KYG045425	848-5488	005	4/10/2012	Total Suspended Solids	Daily	70.0000	120	71%	1	36-55-40	83-00-40	Cave Branch
Harlan Reclamation Services LLC	KYG045425	848-5488 848-5524	005	7/1/2012	Total Suspended Solids	Monthly	35.0000	37.2000	6.29%	31	36-55-40	83-00-40	Cave Branch
Harlan Reclamation Services LLC	KYG045425	848-5488 848-5524	005	7/10/2012	Total Suspended Solids	Daily	70.0000	144.0000	105.71%	1	36-55-40	83-00-40	Cave Branch
Harlan Reclamation Services LLC	KYG045463	848-5490	001	4/30/2012	Total Suspended Solids	Monthly	35	40.5	16%	30	36 55' 35"	82 55' 32"	Left Fork of Cloverlick Creek
Harlan Reclamation Services LLC	KYG045650	848-5492	001	1/10/2012	Total Suspended Solids	Daily	70.0000	115	64%	1	36-57-23	83-00-15	Pounding Mill

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Harlan Reclamation Services LLC	KYG045650	848-5492	001	1/31/2012	Total Suspended Solids	Monthly	35	40.5	16%	31	36-57-23	83-00-15	Pounding Mill
Harlan Reclamation Services LLC	KYG045663	867-7029	001	9/30/2011	Total Suspended Solids	Monthly	35	42	20%	30	36-59-53	82-51-22	Trace Fork
Highland Mining Co.	WV1015753	S-5001-94	001	11/4/11	Aluminum, Total	Daily	0.7500	1.044	39%	1	37-50-19	81-54-59	Bandmill Hollow
Highland Mining Co.	WV1015753	S-5001-94	001	11/30/2011	Aluminum, Total	Monthly	0.4329	0.4696	8%	30	37-50-19	81-54-59	Bandmill Hollow
Highland Mining Co.	WV1015753	S500194	001	7/1/2012	Aluminum, Total	Monthly	0.4329	0.4833	11.64%	31	37-50-19	81-54-59	Bandmill Hollow
Highland Mining Co.	WV1020463	S-5002-01	001	10/31/2008	Iron, Total	Monthly	0.56	0.58	4%	31	37°50'39"	81°52'6"	Dingess Rn
Highland Mining Co.	WV1020463	S-5002-01	001	10/22/10	Iron, Total	Daily	0.9700	1.4300	47%	1	37°50'39"	81°52'6"	Dingess Rn
Independence Coal Company, Inc.	WV0093076	U-26-86	006	7/8/08	Total Suspended Solids	Daily	70	79	13%	1	38°0'59"	81°45'11"	Robinson Creek
Independence Coal Company, Inc.	WV0093076	U-26-86	006	1/28/09	Total Suspended Solids	Daily	70	97	39%	1	38°0'59"	81°45'11"	Robinson Creek
Independence Coal Company, Inc.	WV0093076	U-26-86	006	1/28/09	Aluminum, Total	Daily	0.75	2.16	188%	1	38°0'59"	81°45'11"	Robinson Creek
Independence Coal Company, Inc.	WV0093076	U-26-85	006	1/31/2009	Total Suspended Solids	Monthly	35	49	40%	31	38°0'59"	81°45'11"	Robinson Creek
Independence Coal Company, Inc.	WV0093076	U-26-85	006	1/31/2009	Aluminum, Total	Monthly	0.43	1.135	164%	31	38°0'59"	81°45'11"	Robinson Creek
Independence Coal Company, Inc.	WV0096199	O-5057-88	001	1/28/09	Total Suspended Solids	Daily	70	98	40%	1	38°1'12"	81°44'48"	Robinson Ck
Independence Coal Company, Inc.	WV0096199	O-5057-88	001	1/31/2009	Total Suspended Solids	Monthly	35	50	43%	31	38°1'12"	81°44'48"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	001	2/7/08	Aluminum, Total	Daily	0.75	2.18	191%	1	38° 0' 52"	81° 44' 16"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	001	2/28/2008	Aluminum, Total	Monthly	0.43	2.18	407%	28	38° 0' 52"	81° 44' 16"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	001	3/7/08	Aluminum, Total	Daily	0.75	0.8	7%	1	38° 0' 52"	81° 44' 16"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	001	3/31/2008	Aluminum, Total	Monthly	0.43	0.8	86%	31	38° 0' 52"	81° 44' 16"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	002	2/7/08	Aluminum, Total	Daily	0.75	0.94	25%	1	38°0'54"	81°44'27"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	002	2/28/2008	Aluminum, Total	Monthly	0.43	0.94	119%	28	38°0'54"	81°44'27"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	002	4/30/2008	Aluminum, Total	Monthly	0.43	0.505	17%	30	38°0'54"	81°44'27"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	002	5/20/08	Aluminum, Total	Daily	0.75	3.35	347%	1	38°0'54"	81°44'27"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	002	5/31/2008	Aluminum, Total	Monthly	0.43	1.775	313%	31	38°0'54"	81°44'27"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	002	1/5/09	Aluminum, Total	Daily	0.75	0.98	31%	1	38°0'54"	81°44'27"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	002	1/31/2009	Aluminum, Total	Monthly	0.43	0.715	66%	31	38°0'54"	81°44'27"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	004	1/31/2008	Aluminum, Total	Monthly	0.43	0.7	63%	31	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	004	12/17/08	Aluminum, Total	Daily	0.75	0.84	12%	1	38°1'3"	81°44'51"	Robinson Creek

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1003887	U-57-83	004	5/31/2009	Aluminum, Total	Monthly	0.43	0.4967	16%	31	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	004	6/30/2009	Aluminum, Total	Monthly	0.43	0.435	1%	30	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	004	8/6/09	Aluminum, Total	Daily	0.75	1.01	35%	1	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	004	9/30/2009	Aluminum, Total	Monthly	0.43	0.46	7%	30	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	7/31/2010	Selenium	Monthly	4.7	5.935	26%	31	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	10/31/2010	Selenium	Monthly	4.7	6.45	37%	31	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	11/21/10	Selenium	Daily	8.2	13.92	70%	1	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	11/30/2010	Selenium	Monthly	4.7	13.92	196%	30	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	12/26/10	Selenium	Daily	8.2	12.41	51%	1	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	12/31/2010	Selenium	Monthly	4.7	8.75	86%	31	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	1/3/11	Selenium	Daily	8.2	9.38	14%	1	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	1/15/11	Selenium	Daily	8.2	10.15	24%	1	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	1/31/2011	Selenium	Monthly	4.7	9.765	108%	31	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	2/24/11	Selenium	Daily	8.2	8.86	8%	1	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	2/28/2011	Selenium	Monthly	4.7	5.77	23%	28	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	5/31/2011	Selenium	Monthly	4.7	6.77	44%	31	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U005783	004	6/30/2011	Selenium	Monthly	4.7	8.02	71%	30	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	004	7/27/2011	Selenium	Daily	8.20	9.47	15%	1	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	004	7/31/2011	Selenium	Monthly	4.70	6.195	32%	31	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	004	8/3/2011	Selenium	Daily	8.20	12.44	52%	1	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	004	8/28/2011	Selenium	Daily	8.20	9.37	14%	1	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	004	8/31/2011	Selenium	Monthly	4.70	10.905	132%	31	38°1'3"	81°44'51"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	012	1/18/08	Aluminum, Total	Daily	0.75	0.76	1%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	1/31/2008	Aluminum, Total	Monthly	0.43	0.74	72%	31	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	2/7/08	Aluminum, Total	Daily	0.75	1.01	35%	1	38°1'48"	81°44'23"	Bennett Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1003887	U-57-83	012	2/21/08	Aluminum, Total	Daily	0.75	1.01	35%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	2/28/2008	Aluminum, Total	Monthly	0.43	1.01	135%	28	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	3/27/08	Aluminum, Total	Daily	0.75	0.95	27%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	3/27/08	pH	Daily	6	5.4	10%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	3/31/2008	Aluminum, Total	Monthly	0.43	0.69	60%	31	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	4/10/08	Aluminum, Total	Daily	0.75	0.83	11%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	4/21/08	Aluminum, Total	Daily	0.75	0.8	7%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	4/30/2008	Aluminum, Total	Monthly	0.43	0.815	90%	30	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	5/8/08	pH	Daily	6	5.9	2%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	5/20/08	Aluminum, Total	Daily	0.75	1.07	43%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	5/31/2008	Aluminum, Total	Monthly	0.43	0.78	81%	31	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	6/12/10	Total Suspended Solids	Daily	70	139	99%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U005783	012	7/28/10	Selenium	Daily	8.2	19.4	137%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U005783	012	7/31/2010	Selenium	Monthly	4.7	12.28	161%	31	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	10/21/2011	Selenium	Daily	8.20	13.76	68%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	10/31/2011	Selenium	Monthly	4.70	13.76	193%	31	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	11/26/2011	Selenium	Daily	8.20	21.42	161%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	11/30/2011	Selenium	Monthly	4.70	21.42	356%	30	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	12/10/2011	Selenium	Daily	8.20	13.41	64%	1	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	012	12/31/2011	Selenium	Monthly	4.70	13.41	185%	31	38°1'48"	81°44'23"	Bennett Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	018	2/6/08	Aluminum, Total	Daily	0.75	1.3	73%	1	38°0'2"	81°44'29"	Pond Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	018	2/28/2008	Aluminum, Total	Monthly	0.43	0.69	60%	28	38°0'2"	81°44'29"	Pond Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	018	5/12/08	Aluminum, Total	Daily	0.75	1.26	68%	1	38°0'2"	81°44'29"	Pond Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	018	5/31/2008	Aluminum, Total	Monthly	0.43	0.7	63%	31	38°0'2"	81°44'29"	Pond Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	018	7/31/2008	Total Suspended Solids	Monthly	35	38.5	10%	31	38°0'2"	81°44'29"	Pond Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1003887	U-57-83	018	7/31/2008	Aluminum, Total	Monthly	0.43	0.54	26%	31	38°02"	81°44'29"	Pond Fork
Independence Coal Company, Inc.	WV1003887	U-57-83	401	1/29/08	Ammonia Nitrogen	Daily	16	24.8	55%	1	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	401	1/29/08	Chlorine, Total Residual	Daily	28	1,500.00	5257%	1	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	401	8/31/08	Ammonia Nitrogen	Daily	16	19.3	21%	1	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	401	8/31/2008	Ammonia Nitrogen	Monthly	8	19.3	141%	31	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	401	8/31/08	BOD, 5-Day 20 Deg.C	Daily	40	49.71	24%	1	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	401	8/31/2008	BOD, 5-Day 20 Deg.C	Monthly	20	49.71	149%	31	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	401	10/31/08	Ammonia Nitrogen	Daily	16	44.2	176%	1	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	401	10/31/2008	Ammonia Nitrogen	Monthly	0.07	0.08	14%	31	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	401	10/31/2008	Ammonia Nitrogen	Monthly	8	44.2	453%	31	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	401	10/31/08	BOD, 5-Day 20 Deg.C	Daily	40	44.29	11%	1	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	401	10/31/2008	BOD, 5-Day 20 Deg.C	Monthly	20	44.29	121%	31	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	401	3/31/10	Chlorine, Total Residual	Daily	28	1000	3471%	1	38°10"	81°44'36"	Robinson Creek
Independence Coal Company, Inc.	WV1003887	U-57-83	402	8/31/2009	Aluminum, Total	Monthly	0.43	0.5233	22%	31	38° 0' 55"	81° 44' 49"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	402	3/31/10	BOD, 5-Day 20 Deg.C	Daily	40	52.65	32%	1	38° 0' 55"	81° 44' 49"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	402	3/31/2010	BOD, 5-Day 20 Deg.C	Monthly	20	52.65	163%	31	38° 0' 55"	81° 44' 49"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	402	3/31/10	Chlorine, Total Residual	Daily	28	1500	5257%	1	38° 0' 55"	81° 44' 49"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	402	8/31/10	Chlorine, Total Residual	Daily	28	1000	3471%	1	38° 0' 55"	81° 44' 49"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	402	8/31/2010	BOD, 5-Day 20 Deg.C	Monthly	0.17	0.172338	1%	31	38° 0' 55"	81° 44' 49"	Robinson Ck
Independence Coal Company, Inc.	WV1003887	U-57-83	402	8/31/10	Flow, in Conduit or thru plant	Daily	0.001	0.007	600%	1	38° 0' 55"	81° 44' 49"	Robinson Ck
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	001	12/17/08	Aluminum, Total	Daily	0.75	0.98	31%	1	38°0'56"	81°45'25"	Robinson Creek
Independence Coal Company, Inc.	WV1004140	U-S114-86/O-501	001	12/31/2008	Aluminum, Total	Monthly	0.43	0.98	128%	31	38°0'56"	81°45'25"	Robinson Creek
Independence Coal Company, Inc.	WV1004140	U-S114-86/O-501	001	12/31/2008	Total Suspended Solids	Monthly	35	41	17%	31	38°0'56"	81°45'25"	Robinson Creek
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	2/6/08	Total Suspended Solids	Daily	70	1,780.00	2443%	1	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	2/22/08	Total Suspended Solids	Daily	70	226	223%	1	37°58'7"	81°44'40"	Bull Ck/Pond Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	2/28/2008	Iron, Total	Monthly	3	3.32	11%	28	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	2/28/2008	Total Suspended Solids	Monthly	35	1003	2766%	28	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	4/22/08	Aluminum, Total	Daily	0.14	0.43	207%	1	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	4/30/2008	Aluminum, Total	Monthly	0.08	0.255	219%	30	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	5/12/08	Aluminum, Total	Daily	0.75	14.87	1883%	1	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	5/12/08	Total Suspended Solids	Daily	70	328	369%	1	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	5/22/08	Aluminum, Total	Daily	0.75	1.06	41%	1	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	5/31/2008	Aluminum, Total	Monthly	0.43	7.965	1752%	31	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	5/31/2008	Total Suspended Solids	Monthly	35	183.5	424%	31	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	6/30/2009	Aluminum, Total	Monthly	0.43	0.67	56%	30	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5114-86/O-501	004	8/31/2009	Aluminum, Total	Monthly	0.43	0.45	5%	31	37°58'7"	81°44'40"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1004140	U-5013-98	012	4/10/08	Aluminum, Total	Daily	0.14	0.38	171%	1	38°1'0"	81°43'44"	Robinson Creek
Independence Coal Company, Inc.	WV1004140	U-5013-98	012	4/21/08	Aluminum, Total	Daily	0.14	0.23	64%	1	38°1'0"	81°43'44"	Robinson Creek
Independence Coal Company, Inc.	WV1004140	U-5013-98	012	5/8/08	Aluminum, Total	Daily	0.75	1.58	111%	1	38°1'0"	81°43'44"	Robinson Creek
Independence Coal Company, Inc.	WV1004140	U-5013-98	012	5/20/08	Aluminum, Total	Daily	0.75	0.94	25%	1	38°1'0"	81°43'44"	Robinson Creek
Independence Coal Company, Inc.	WV1004140	U-5013-98	012	5/31/2008	Aluminum, Total	Monthly	0.43	1.26	193%	31	38°1'0"	81°43'44"	Robinson Creek
Independence Coal Company, Inc.	WV1004140	U-5013-98	012	5/31/2008	Total Suspended Solids	Monthly	35	41.5	19%	31	38°1'0"	81°43'44"	Robinson Creek
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	1/30/08	Iron, Total	Daily	0.32	1.66	419%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	1/31/2008	Total Suspended Solids	Monthly	35	43	23%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	1/31/2008	Iron, Total	Monthly	0.18	1.66	822%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	3/31/08	Iron, Total	Daily	0.32	0.44	38%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	3/31/2008	Iron, Total	Monthly	0.18	0.44	144%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	4/20/08	Aluminum, Total	Daily	0.14	0.32	129%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	4/20/08	Iron, Total	Daily	0.32	0.54	69%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	4/30/2008	Iron, Total	Monthly	0.18	0.54	200%	30	38°1'32"	81°39'37"	Lavinia Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	5/14/08	Iron, Total	Daily	0.32	0.44	38%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	5/28/08	Iron, Total	Daily	0.32	1.81	466%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	5/31/2008	Iron, Total	Monthly	0.18	1.125	525%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	6/30/2008	Iron, Total	Monthly	0.18	0.2933	63%	30	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	7/31/2008	Iron, Total	Monthly	0.18	0.225	25%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	8/16/08	Iron, Total	Daily	0.32	0.55	72%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	8/22/08	Iron, Total	Daily	0.32	0.36	13%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	8/31/2008	Iron, Total	Monthly	0.18	0.455	153%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	9/29/08	Iron, Total	Daily	0.32	0.46	44%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	9/30/2008	Iron, Total	Monthly	0.18	0.35	94%	30	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	10/31/2008	Iron, Total	Monthly	0.18	0.295	64%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	11/30/2008	Iron, Total	Monthly	0.18	0.25	39%	30	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	12/27/08	Iron, Total	Daily	0.32	0.49	53%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	12/31/2008	Iron, Total	Monthly	0.18	0.49	172%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	1/29/09	Iron, Total	Daily	0.32	0.67	109%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	1/31/2009	Iron, Total	Monthly	0.18	0.495	175%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	2/7/09	Iron, Total	Daily	0.32	0.59	84%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	2/28/2009	Iron, Total	Monthly	0.18	0.45	150%	28	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	3/31/2009	Iron, Total	Monthly	0.18	0.285	58%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	4/6/09	Iron, Total	Daily	0.32	0.34	6%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	4/20/09	Iron, Total	Daily	0.32	0.36	13%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	4/30/2009	Iron, Total	Monthly	0.18	0.35	94%	30	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	5/31/2009	Iron, Total	Monthly	0.18	0.245	36%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	6/10/09	Iron, Total	Daily	0.32	0.33	3%	1	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	6/30/2009	Iron, Total	Monthly	0.18	0.285	58%	30	38°1'32"	81°39'37"	Lavinia Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	7/31/2009	Iron, Total	Monthly	0.18	0.205	14%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	8/31/2009	Iron, Total	Monthly	0.18	0.23	28%	31	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	033	2/28/2011	Selenium	Monthly	4.7	5.24	11%	28	38°1'32"	81°39'37"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	1/30/08	Aluminum, Total	Daily	0.13	0.96	638%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	1/30/08	Iron, Total	Daily	0.3	0.96	220%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	1/31/2008	Aluminum, Total	Monthly	0.07	0.96	1271%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	1/31/2008	Iron, Total	Monthly	0.17	0.96	465%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	2/27/08	Iron, Total	Daily	0.3	0.34	13%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	2/28/2008	Iron, Total	Monthly	0.17	0.34	100%	28	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	3/31/08	Iron, Total	Daily	0.3	0.31	3%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	3/31/2008	Iron, Total	Monthly	0.17	0.31	82%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	4/30/08	Iron, Total	Daily	0.3	0.4	33%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	4/30/2008	Iron, Total	Monthly	0.17	0.34	100%	30	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	5/8/08	Aluminum, Total	Daily	0.13	0.28	115%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	5/8/08	Iron, Total	Daily	0.3	0.65	117%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	5/28/08	Iron, Total	Daily	0.3	0.7	133%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	5/31/2008	Aluminum, Total	Monthly	0.07	0.18	157%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	5/31/2008	Iron, Total	Monthly	0.17	0.675	297%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	6/10/08	Aluminum, Total	Daily	0.13	0.27	108%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	6/10/08	Iron, Total	Daily	0.3	0.37	23%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	6/30/2008	Aluminum, Total	Monthly	0.07	0.1433	105%	30	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	6/30/2008	Iron, Total	Monthly	0.17	0.3133	84%	30	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	7/31/2008	Iron, Total	Monthly	0.17	0.265	56%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	8/22/08	Iron, Total	Daily	0.3	0.39	30%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	8/31/2008	Iron, Total	Monthly	0.17	0.335	97%	31	37°51'19"	81°39'23"	Lavinia Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	9/11/08	Iron, Total	Daily	0.3	0.48	60%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	9/29/08	Iron, Total	Daily	0.3	0.38	27%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	9/30/2008	Aluminum, Total	Monthly	0.07	0.1	43%	30	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	9/30/2008	Iron, Total	Monthly	0.17	0.43	153%	30	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	10/8/08	Iron, Total	Daily	0.3	0.52	73%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	10/24/08	Iron, Total	Daily	0.3	0.4	33%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	10/31/2008	Iron, Total	Monthly	0.17	0.4	135%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	11/11/08	Iron, Total	Daily	0.3	0.42	40%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	11/28/08	Iron, Total	Daily	0.3	0.35	17%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	11/30/2008	Iron, Total	Monthly	0.17	0.385	126%	30	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	12/27/08	Iron, Total	Daily	0.3	0.34	13%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	12/31/2008	Iron, Total	Monthly	0.17	0.34	100%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	1/6/09	Aluminum, Total	Daily	0.13	0.2	54%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	1/8/09	Iron, Total	Daily	0.3	0.4	33%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	1/31/2009	Aluminum, Total	Monthly	0.07	0.13	86%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	1/31/2009	Iron, Total	Monthly	0.17	0.35	106%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	2/28/2009	Iron, Total	Monthly	0.17	0.255	50%	28	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	3/31/2009	Iron, Total	Monthly	0.17	0.245	44%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	4/30/2009	Iron, Total	Monthly	0.17	0.205	21%	30	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	5/31/2009	Iron, Total	Monthly	0.17	0.235	38%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	6/30/2009	Iron, Total	Monthly	0.17	0.215	26%	30	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	7/31/2009	Iron, Total	Monthly	0.17	0.195	15%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	8/31/2009	Iron, Total	Monthly	0.17	0.22	29%	31	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U-5013-98	036	7/27/10	Aluminum, Total	Daily	0.37	0.38	3%	1	37°51'19"	81°39'23"	Lavinia Fork
Independence Coal Company, Inc.	WV1004140	U501398	037	8/1/2012	Iron, Total	Monthly	0.3000	0.3300	10.00%	31	38° 3' 7"	81° 40' 54"	Laurel Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1004140	U501398	037	8/1/2012	Aluminum, Total	Monthly	0.1100	0.6600	500.00%	31	38° 3' 7"	81° 40' 54"	Laurel Ck
Independence Coal Company, Inc.	WV1004140	U501398	037	8/30/2012	Aluminum, Total	Daily	0.1900	0.6600	247.37%	1	38° 3' 7"	81° 40' 54"	Laurel Ck
Independence Coal Company, Inc.	WV1004140	U501398	037	10/1/2012	Iron, Total	Monthly	0.3000	0.5500	83.33%	31	38° 3' 7"	81° 40' 54"	Laurel Ck
Independence Coal Company, Inc.	WV1004140	U501398	037	10/1/2012	Aluminum, Total	Monthly	0.1100	0.5300	381.82%	31	38° 3' 7"	81° 40' 54"	Laurel Ck
Independence Coal Company, Inc.	WV1004140	U501398	037	10/23/2012	Iron, Total	Daily	0.5300	0.5500	3.77%	1	38° 3' 7"	81° 40' 54"	Laurel Ck
Independence Coal Company, Inc.	WV1004140	U501398	037	10/23/2012	Aluminum, Total	Daily	0.1900	0.5300	178.95%	1	38° 3' 7"	81° 40' 54"	Laurel Ck
Independence Coal Company, Inc.	WV1004140	U501398	037	4/30/2013	Total Aluminum (1105)	Monthly	0.1100	0.2200	100.00%	30	38° 3' 7.0000"	81° 40' 54.0000"	Laurel Ck
Independence Coal Company, Inc.	WV1004140	U501398	037	4/30/2013	Total Aluminum (1105)	Daily	0.1900	0.4400	131.58%	1	38° 3' 7.0000"	81° 40' 54.0000"	Laurel Ck
Independence Coal Company, Inc.	WV1004140		401	8/31/2008	Total Suspended Solids	Monthly	30	56	87%	31	38°0'56"	81°43'43"	Robinson Creek
Independence Coal Company, Inc.	WV1004140		401	9/30/2008	Total Suspended Solids	Monthly	30	56	87%	30	38°0'56"	81°43'43"	Robinson Creek
Independence Coal Company, Inc.	WV1004328	U-5018-87	001	12/8/09	Aluminum, Total	Daily	0.75	0.8	7%	1	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U501887	001	4/8/10	Selenium	Daily	8.2	8.87	8%	1	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U501887	001	4/30/2010	Selenium	Monthly	4.7	6.84	46%	30	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U501887	001	5/31/2010	Selenium	Monthly	4.7	5.89	25%	31	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U501887	001	2/16/11	Selenium	Daily	8.2	9.43	15%	1	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U501887	001	2/28/2011	Selenium	Monthly	4.7	8.32	77%	28	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U501887	001	3/2/11	Selenium	Daily	8.2	8.76	7%	1	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U501887	001	3/17/11	Selenium	Daily	8.2	16.75	104%	1	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U501887	001	3/31/2011	Selenium	Monthly	4.7	12.755	171%	31	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U501887	001	4/18/11	Selenium	Daily	8.2	12.4	51%	1	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U501887	001	4/30/2011	Selenium	Monthly	4.7	10.24	118%	30	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U501887	001	5/31/2011	Selenium	Monthly	4.7	6.88	46%	31	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U-5018-87	001	1/31/2012	Selenium	Monthly	4.70	7.36	57%	31	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U-5018-87	001	3/31/2012	Selenium	Monthly	4.70	7.055	50%	31	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1004328	U-5018-87	001	4/30/2012	Selenium	Monthly	4.70	5.45	16%	30	37° 59' 13"	81° 43' 10"	Pond Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1004328	U-5018-87	001	5/31/2012	Selenium	Monthly	4.70	5.545	18%	31	37° 59' 13"	81° 43' 10"	Pond Fk
Independence Coal Company, Inc.	WV1008323	S-5058-89	020	1/7/09	Aluminum, Total	Daily	0.75	2.49	232%	1	37°56'13"	81°43'49"	Whiteoak Branch
Independence Coal Company, Inc.	WV1008323	S-5058-89	020	1/31/2009	Aluminum, Total	Monthly	0.43	0.5517	28%	31	37°56'13"	81°43'49"	Whiteoak Branch
Independence Coal Company, Inc.	WV1008323	S-5058-89	021	5/31/2009	Total Suspended Solids	Monthly	35	65	86%	31	37°56'12"	81°44'6"	Whiteoak Branch
Independence Coal Company, Inc.	WV1008323	S-5058-89	027	1/7/09	Aluminum, Total	Daily	0.75	1.23	64%	1	37°55'33"	81°44'21"	Whiteoak Br
Independence Coal Company, Inc.	WV1008323	S-5058-89	028	4/29/08	Aluminum, Total	Daily	0.14	0.2	43%	1	37°56'7"	81°44'18"	Whiteoak Br
Independence Coal Company, Inc.	WV1008323	S-5058-89	034	1/31/2008	Aluminum, Total	Monthly	0.08	0.11	38%	31	37° 55' 49"	81° 42' 47"	Casey Ck
Independence Coal Company, Inc.	WV1008323	S-5058-89	035	8/6/08	Aluminum, Total	Daily	0.75	0.81	8%	1	37°56'9"	81°43'45"	Whiteoak Branch
Independence Coal Company, Inc.	WV1008323	S-5031-95	049	1/31/2008	Aluminum, Total	Monthly	0.08	0.085	6%	31	37° 56' 39"	81° 43' 29"	Pond Fk
Independence Coal Company, Inc.	WV1008323	S-5031-95	049	2/28/2008	Aluminum, Total	Monthly	0.08	0.085	6%	28	37° 56' 39"	81° 43' 29"	Pond Fk
Independence Coal Company, Inc.	WV1008323	S-5031-95	058	4/29/08	Aluminum, Total	Daily	0.14	0.23	64%	1	37°57'47"	81°44'35"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1008323	S-5031-95	058	5/15/08	Aluminum, Total	Daily	0.14	0.26	86%	1	37°57'47"	81°44'35"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1008323	S-5031-95	058	12/16/08	Aluminum, Total	Daily	0.75	0.8	7%	1	37°57'47"	81°44'35"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1008323	S-5031-95	058	12/31/2008	Aluminum, Total	Monthly	0.43	0.485	13%	31	37°57'47"	81°44'35"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1013025	U507991	002	12/29/2011	Aluminum, Total	Daily	0.7500	1.18	57%	1	38° 1' 17"	81° 43' 37"	Robinson Ck
Independence Coal Company, Inc.	WV1013025	U507991	002	12/31/2011	Aluminum, Total	Monthly	0.43	0.4767	11%	31	38° 1' 17"	81° 43' 37"	Robinson Ck
Independence Coal Company, Inc.	WV1015036	U-3009-95	007	6/30/2011	Aluminum, Total	Monthly	0.43	0.555	29%	30	37° 50' 17"	81° 30' 40"	Hazy Ck
Independence Coal Company, Inc.	WV1015036	U-3009-95	007	10/30/11	Aluminum, Total	Daily	0.7500	0.91	21%	1	37° 50' 17"	81° 30' 40"	Hazy Ck
Independence Coal Company, Inc.	WV1015036	U-3009-95	007	10/31/2011	Aluminum, Total	Monthly	0.43	0.91	112%	31	37° 50' 17"	81° 30' 40"	Hazy Ck
Independence Coal Company, Inc.	WV1015109	Surveyor	001	1/31/2008	Aluminum, Total	Monthly	0.43	0.61	42%	31	37°45'40"	81°19'5"	Surveyor Ck
Independence Coal Company, Inc.	WV1015109	Surveyor	001	1/31/2008	Total Suspended Solids	Monthly	35	44	26%	31	37°45'40"	81°19'5"	Surveyor Ck
Independence Coal Company, Inc.	WV1015109	Surveyor	001	1/31/2008	Iron, Total	Monthly	0.48	0.73	52%	31	37°45'40"	81°19'5"	Surveyor Ck
Independence Coal Company, Inc.	WV1015109	Surveyor	001	2/28/2008	Iron, Total	Monthly	0.48	0.77	60%	28	37°45'40"	81°19'5"	Surveyor Ck
Independence Coal Company, Inc.	WV1015109	Surveyor	001	3/31/2008	Iron, Total	Monthly	0.48	0.53	10%	31	37°45'40"	81°19'5"	Surveyor Ck
Independence Coal Company, Inc.	WV1015109	Surveyor	001	3/16/10	Aluminum, Total	Daily	0.75	0.85	13%	1	37°45'40"	81°19'5"	Surveyor Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1015109	Surveyor	001	4/26/10	Aluminum, Total	Daily	0.75	1.31	75%	1	37°45'40"	81°19'5"	Surveyor Ck
Independence Coal Company, Inc.	WV1015109	Surveyor	001	4/26/10	Iron, Total	Daily	0.84	0.9	7%	1	37°45'40"	81°19'5"	Surveyor Ck
Independence Coal Company, Inc.	WV1015109	Surveyor	001	4/30/2010	Aluminum, Total	Monthly	0.43	0.435	1%	30	37°45'40"	81°19'5"	Surveyor Ck
Independence Coal Company, Inc.	WV1016024	U-5016-95	002	2/6/08	Aluminum, Total	Daily	0.75	0.81	8%	1	37° 59' 5"	81° 46' 32"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	005	2/6/08	Aluminum, Total	Daily	0.75	1.48	97%	1	37°58'54"	81°46'47"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	005	2/28/2008	Aluminum, Total	Monthly	0.43	0.795	85%	28	37°58'54"	81°46'47"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U-5016-95	005	5/12/08	Aluminum, Total	Daily	0.75	0.8	7%	1	37°58'54"	81°46'47"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U-5016-95	005	5/31/2008	Aluminum, Total	Monthly	0.43	0.48	12%	31	37°58'54"	81°46'47"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	005	12/18/08	Aluminum, Total	Daily	0.75	0.95	27%	1	37°58'54"	81°46'47"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	005	1/12/09	Aluminum, Total	Daily	0.75	0.77	3%	1	37°58'54"	81°46'47"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	005	6/17/09	Aluminum, Total	Daily	0.75	0.94	25%	1	37°58'54"	81°46'47"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	005	6/30/2009	Aluminum, Total	Monthly	0.43	0.655	52%	30	37°58'54"	81°46'47"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U501298	010	10/31/2010	Selenium	Monthly	4.7	4.89	4%	31	37°58'58"	81°45'40"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U-5016-95/U-503	010	12/31/2010	Aluminum, Total	Monthly	0.43	0.4575	6%	31	37°58'58"	81°45'40"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U-5016-95/U-503	010	3/17/11	Aluminum, Total	Daily	0.75	0.88	17%	1	37°58'58"	81°45'40"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U501298	010	10/1/2012	Aluminum, Total	Monthly	0.4300	0.7000	62.79%	31	37°58'58"	81°45'40"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U501298	010	10/25/2012	Aluminum, Total	Daily	0.7500	1.2800	70.67%	1	37°58'58"	81°45'40"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U501298	010	10/30/2012	Aluminum, Total	Daily	0.7500	0.9600	28.00%	1	37°58'58"	81°45'40"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U501298	010	1/1/2013	Aluminum, Total	Monthly	0.4300	0.5975	38.95%	31	37°58'58"	81°45'40"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U501298	010	1/21/2013	Aluminum, Total	Daily	0.7500	1.4700	96.00%	1	37°58'58"	81°45'40"	Jacks Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	021	3/6/08	pH	Daily	6	3.46	42%	1	37°53'1"	81°48'1"	Bias Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	021	1/13/09	pH	Daily	6	3.12	48%	1	37°53'1"	81°48'1"	Bias Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	021	2/19/09	pH	Daily	6	3.89	35%	1	37°53'1"	81°48'1"	Bias Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	4/22/08	Aluminum, Total	Daily	0.75	0.82	9%	1	38°0'0"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	4/30/2008	Aluminum, Total	Monthly	0.43	0.82	91%	30	38°0'0"	81°48'8"	Hunters Br

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	5/31/2008	Aluminum, Total	Monthly	0.43	0.72	67%	31	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	6/3/08	Aluminum, Total	Daily	0.75	0.92	23%	1	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	6/30/2008	Aluminum, Total	Monthly	0.43	1.28	198%	30	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	6/30/08	pH	Daily	6	5.59	7%	1	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	7/9/08	pH	Daily	6	5.49	9%	1	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	7/9/08	Aluminum, Total	Daily	0.75	1.33	77%	1	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	7/23/08	pH	Daily	6	5.76	4%	1	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	7/23/08	Aluminum, Total	Daily	0.75	1.39	85%	1	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	7/31/2008	Aluminum, Total	Monthly	0.43	1.36	216%	31	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	9/12/08	pH	Daily	6	5.9	2%	1	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	9/12/08	Aluminum, Total	Daily	0.75	1.14	52%	1	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	9/30/2008	Aluminum, Total	Monthly	0.43	1.14	165%	30	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	1/25/09	Aluminum, Total	Daily	0.75	1.22	63%	1	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016024	U-5012-98	022	1/31/2009	Aluminum, Total	Monthly	0.43	1.22	184%	31	38°00"	81°48'8"	Hunters Br
Independence Coal Company, Inc.	WV1016890	S502396	002	3/31/2010	Aluminum, Total	Monthly	0.43	0.575	34%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	3/7/11	Selenium	Daily	8.2	14.46	76%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	3/22/11	Selenium	Daily	8.2	13.1	60%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	3/31/2011	Selenium	Monthly	4.7	13.78	193%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	4/7/11	Selenium	Daily	8.2	11.28	38%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	4/30/2011	Selenium	Monthly	4.7	7.325	56%	30	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	9/30/2011	Selenium	Daily	8.20	9.48	16%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	9/30/2011	Selenium	Monthly	4.70	9.48	102%	30	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	10/20/2011	Selenium	Daily	8.20	12.32	50%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	10/31/2011	Selenium	Monthly	4.70	9.19	96%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	11/1/2011	Selenium	Daily	8.20	18.98	131%	1	37° 53' 46"	81° 34' 54"	Mats Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1016890	S502396	002	11/17/2011	Selenium	Daily	8.20	18.11	121%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	11/30/2011	Selenium	Monthly	4.70	18.545	295%	30	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	12/22/2011	Selenium	Daily	8.20	12.88	57%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	12/31/2011	Selenium	Monthly	4.70	9.125	94%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	1/5/2012	Selenium	Daily	8.20	13.3	62%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	1/23/2012	Selenium	Daily	8.20	13.1	60%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	1/31/2012	Selenium	Monthly	4.70	13.2	181%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	2/2/2012	Selenium	Daily	8.20	11.15	36%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	2/21/2012	Selenium	Daily	8.20	9.54	16%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	2/29/2012	Selenium	Monthly	4.70	10.345	120%	28	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	3/8/2012	Selenium	Daily	8.20	13.66	67%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	3/19/2012	Selenium	Daily	8.20	11.95	46%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	3/31/2012	Selenium	Monthly	4.70	12.805	172%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	4/2/2012	Selenium	Daily	8.20	10.32	26%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	4/18/2012	Selenium	Daily	8.20	11.5	40%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	4/30/2012	Selenium	Monthly	4.70	10.91	132%	30	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	5/7/2012	Selenium	Daily	8.20	12.33	50%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	5/17/2012	Selenium	Daily	8.20	10.61	29%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	5/31/2012	Selenium	Monthly	4.70	11.47	144%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	6/1/2012	Selenium	Daily	8.20	9.54	16.34%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	6/15/2012	Selenium	Monthly	4.70	9.135	94.36%	30	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	6/15/2012	Selenium	Daily	8.20	8.73	6.46%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	7/5/2012	Selenium	Daily	8.20	11.84	44.39%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	7/17/2012	Selenium	Monthly	4.70	12.26	160.85%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	7/17/2012	Selenium	Daily	8.20	12.68	54.63%	1	37° 53' 46"	81° 34' 54"	Mats Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1016890	S502396	002	8/2/2012	Selenium	Daily	8.20	30.14	267.56%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	8/20/2012	Selenium	Monthly	4.70	25.52	442.98%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	8/20/2012	Selenium	Daily	8.20	20.9	154.88%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	9/11/2012	Selenium	Daily	8.20	35.63	334.51%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	9/26/2012	Selenium	Monthly	4.70	23.22	394.04%	30	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	9/26/2012	Selenium	Daily	8.20	10.81	31.83%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	10/8/2012	Selenium	Monthly	4.70	24.12	413.19%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	10/8/2012	Selenium	Daily	8.20	24.12	194.15%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	11/1/2012	Selenium	Daily	8.20	22.25	171.34%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	11/20/2012	Selenium	Monthly	4.70	20.355	333.09%	30	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	11/20/2012	Selenium	Daily	8.20	18.46	125.12%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	12/4/2012	Selenium	Daily	8.20	10.76	31.22%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	12/17/2012	Selenium	Monthly	4.70	13.86	194.89%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	12/17/2012	Selenium	Daily	8.20	16.96	106.83%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	1/2/2013	Selenium	Daily	8.20	18.8	129.27%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	1/17/2013	Selenium	Monthly	4.70	21.495	357.34%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	1/17/2013	Selenium	Daily	8.20	24.19	195.00%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	2/4/2013	Total Selenium (981)	Daily	8.20	15.02	83.17%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	2/18/2013	Total Selenium (981)	Daily	8.20	11.59	41.34%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	2/18/2013	Total Selenium (981)	Monthly	4.70	13.305	183.09%	28	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	3/7/2013	Total Selenium (981)	Daily	8.20	11.92	45.37%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	3/20/2013	Total Selenium (981)	Daily	8.20	12.7	54.88%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	3/20/2013	Total Selenium (981)	Monthly	4.70	12.31	161.91%	31	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	4/2/2013	Total Selenium (981)	Daily	8.20	12.65	54.27%	1	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	002	4/16/2013	Total Selenium (981)	Daily	8.20	16.49	101.10%	1	37° 53' 46"	81° 34' 54"	Mats Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1016890	S502396	002	4/16/2013	Total Selenium (981)	Monthly	4.70	14.57	210.00%	30	37° 53' 46"	81° 34' 54"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	2/28/2010	Aluminum, Total	Monthly	0.43	0.435	1%	28	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	3/31/10	Aluminum, Total	Daily	0.75	0.86	15%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	3/31/2010	Aluminum, Total	Monthly	0.43	0.6	40%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/14/10	Selenium	Daily	8.2	30.4	271%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/26/10	Selenium	Daily	8.2	20.2	146%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/30/2010	Selenium	Monthly	4.7	25.3	438%	30	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	5/13/10	Selenium	Daily	8.2	27	229%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	5/31/2010	Selenium	Monthly	4.7	27	474%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	6/3/10	Selenium	Daily	8.2	34.1	316%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	6/16/10	Selenium	Daily	8.2	44.8	446%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	6/30/2010	Selenium	Monthly	4.7	39.45	739%	30	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	7/1/10	Selenium	Daily	8.2	46.2	463%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	7/20/10	Selenium	Daily	8.2	34.7	323%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	7/31/2010	Selenium	Monthly	4.7	40.45	761%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	8/3/10	Selenium	Daily	8.2	37.8	361%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	8/17/10	Selenium	Daily	8.2	20.6	151%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	8/31/2010	Selenium	Monthly	4.7	29.2	521%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	9/9/10	Selenium	Daily	8.2	26.9	228%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	9/30/2010	Selenium	Monthly	4.7	26.9	472%	30	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	10/5/10	Selenium	Daily	8.2	66.71	714%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	10/31/2010	Selenium	Monthly	4.7	66.71	1319%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	11/9/10	Selenium	Daily	8.2	47.77	483%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	11/19/10	Selenium	Daily	8.2	49.88	508%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	11/30/2010	Selenium	Monthly	4.7	48.825	939%	30	37° 54' 3"	81° 35' 37"	Mats Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1016890	S502396	004	12/2/10	Selenium	Daily	8.2	29.42	259%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	12/15/10	Selenium	Daily	8.2	36.34	343%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	12/31/2010	Selenium	Monthly	4.7	32.88	600%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	1/12/11	Selenium	Daily	8.2	71.21	768%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	1/31/2011	Selenium	Monthly	4.7	63.285	1246%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	1/31/11	Selenium	Daily	8.2	55.36	575%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	2/10/11	Selenium	Daily	8.2	53	546%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	2/22/11	Selenium	Daily	8.2	61.55	651%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	2/28/2011	Selenium	Monthly	4.7	57.275	1119%	28	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	3/7/11	Selenium	Daily	8.2	37.44	357%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	3/22/11	Selenium	Daily	8.2	96.54	1077%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	3/31/2011	Selenium	Monthly	4.7	66.99	1325%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/7/11	Selenium	Daily	8.2	62.74	665%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/19/11	Selenium	Daily	8.2	106.84	1203%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/30/2011	Selenium	Monthly	4.7	84.79	1704%	30	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	5/3/11	Selenium	Daily	8.2	48.17	487%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	5/16/11	Selenium	Daily	8.2	72.59	785%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	5/31/2011	Selenium	Monthly	4.7	60.38	1185%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	7/21/2011	Selenium	Daily	8.20	77.99	851%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	7/31/2011	Selenium	Monthly	4.70	77.99	1559%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	8/4/2011	Selenium	Daily	8.20	66.18	707%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	8/16/2011	Selenium	Daily	8.20	48.46	491%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	8/31/2011	Selenium	Monthly	4.70	57.32	1120%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	9/7/2011	Selenium	Daily	8.20	42.73	421%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	9/21/2011	Selenium	Daily	8.20	82.35	904%	1	37° 54' 3"	81° 35' 37"	Mats Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1016890	S502396	004	9/30/2011	Selenium	Monthly	4.70	62.54	1231%	30	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	10/5/2011	Selenium	Daily	8.20	60.67	640%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	10/20/2011	Selenium	Daily	8.20	56.43	588%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	10/31/2011	Selenium	Monthly	4.70	58.55	1146%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	11/1/2011	Selenium	Daily	8.20	61.16	646%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	11/17/2011	Selenium	Daily	8.20	40.85	398%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	11/30/2011	Selenium	Monthly	4.70	51.005	985%	30	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	12/7/2011	Selenium	Daily	8.20	51.6	529%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	12/22/2011	Selenium	Daily	8.20	63.52	675%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	12/31/2011	Selenium	Monthly	4.70	57.56	1125%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	1/5/2012	Selenium	Daily	8.20	55.48	577%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	1/23/2012	Selenium	Daily	8.20	39	376%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	1/31/2012	Selenium	Monthly	4.70	47.24	905%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	2/2/2012	Selenium	Daily	8.20	52.2	537%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	2/21/2012	Selenium	Daily	8.20	42.81	422%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	2/29/2012	Selenium	Monthly	4.70	47.505	911%	28	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	3/8/2012	Selenium	Daily	8.20	55.54	577%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	3/19/2012	Selenium	Daily	8.20	65.46	698%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	3/31/2012	Selenium	Monthly	4.70	60.5	1187%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/2/2012	Selenium	Daily	8.20	60.26	635%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/18/2012	Selenium	Daily	8.20	63.65	676%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/30/2012	Selenium	Monthly	4.70	61.955	1218%	30	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	5/7/2012	Selenium	Daily	8.20	56.03	583%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	5/17/2012	Selenium	Daily	8.20	60.38	636%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	5/31/2012	Selenium	Monthly	4.70	58.205	1138%	31	37° 54' 3"	81° 35' 37"	Mats Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1016890	S502396	004	6/1/2012	Selenium	Daily	8.20	57.18	597.32%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	6/15/2012	Selenium	Monthly	4.70	54.175	1052.66%	30	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	6/15/2012	Selenium	Daily	8.20	51.17	524.02%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	7/5/2012	Selenium	Daily	8.20	57.61	602.56%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	7/17/2012	Selenium	Monthly	4.70	54.86	1067.23%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	7/17/2012	Selenium	Daily	8.20	52.11	535.49%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	8/2/2012	Selenium	Daily	8.20	55.51	576.95%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	8/20/2012	Selenium	Monthly	4.70	57.005	1112.87%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	8/20/2012	Selenium	Daily	8.20	58.5	613.41%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	9/11/2012	Selenium	Daily	8.20	53.6	553.66%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	9/26/2012	Selenium	Monthly	4.70	40.165	754.57%	30	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	9/26/2012	Selenium	Daily	8.20	26.73	225.98%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	10/8/2012	Selenium	Daily	8.20	61.03	644.27%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	10/22/2012	Selenium	Monthly	4.70	60.28	1182.55%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	10/22/2012	Selenium	Daily	8.20	59.53	625.98%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	11/1/2012	Selenium	Daily	8.20	28.56	248.29%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	11/20/2012	Selenium	Monthly	4.70	51.91	1004.47%	30	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	11/20/2012	Selenium	Daily	8.20	75.26	817.80%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	12/4/2012	Selenium	Daily	8.20	62.5	662.20%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	12/17/2012	Selenium	Monthly	4.70	61.98	1218.72%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	12/17/2012	Selenium	Daily	8.20	61.46	649.51%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	1/2/2013	Selenium	Daily	8.20	62.39	660.85%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	1/17/2013	Selenium	Monthly	4.70	50.945	983.94%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	1/17/2013	Selenium	Daily	8.20	39.5	381.71%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	2/4/2013	Total Selenium (981)	Daily	8.20	57.07	595.98%	1	37° 54' 3"	81° 35' 37"	Mats Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1016890	S502396	004	2/18/2013	Total Selenium (981)	Daily	8.20	68.37	733.78%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	2/18/2013	Total Selenium (981)	Monthly	4.70	62.72	1234.47%	28	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	3/7/2013	Total Selenium (981)	Daily	8.20	56.14	584.63%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	3/20/2013	Total Selenium (981)	Daily	8.20	56.81	592.80%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	3/20/2013	Total Selenium (981)	Monthly	4.70	56.475	1101.60%	31	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/2/2013	Total Selenium (981)	Daily	8.20	55.25	573.78%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/16/2013	Total Selenium (981)	Daily	8.20	76.19	829.15%	1	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S502396	004	4/16/2013	Total Selenium (981)	Monthly	4.70	65.72	1298.30%	30	37° 54' 3"	81° 35' 37"	Mats Ck
Independence Coal Company, Inc.	WV1016890	S500398	015	9/1/2012	Aluminum, Total	Monthly	0.4300	1.1700	172.09%	30	37° 54' 14"	81° 35' 27"	James Ck
Independence Coal Company, Inc.	WV1016890	S500398	015	9/26/2012	Aluminum, Total	Daily	0.7500	2.2700	202.67%	1	37° 54' 14"	81° 35' 27"	James Ck
Independence Coal Company, Inc.	WV1017152	S-5030-97	001	12/31/2011	Selenium	Monthly	4.7	5.06	8%	31	37-56-12	81-44-14	White Oak Branch
Independence Coal Company, Inc.	WV1017152	S503097	013	1/21/11	Selenium	Daily	8.2	12.8	56%	1	37° 56' 21"	81° 44' 56"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	013	1/26/11	Selenium	Daily	8.2	17.9	118%	1	37° 56' 21"	81° 44' 56"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	013	1/31/2011	Selenium	Monthly	4.7	15.35	227%	31	37° 56' 21"	81° 44' 56"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	013	3/31/2011	Selenium	Monthly	4.7	5.2	11%	31	37° 56' 21"	81° 44' 56"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	5/8/10	Selenium	Daily	8.2	8.8	7%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	5/31/2010	Selenium	Monthly	4.7	7.28	55%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	8/13/10	Selenium	Daily	8.2	11.4	39%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	8/26/10	Selenium	Daily	8.2	8.51	4%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	8/31/2010	Selenium	Monthly	4.7	9.955	112%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	9/30/2010	Selenium	Monthly	4.7	6.405	36%	30	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	11/10/10	Selenium	Daily	8.2	8.72	6%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	11/30/2010	Selenium	Monthly	4.7	8.72	8.72	30	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	12/31/2010	Selenium	Monthly	4.7	6.38	36%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	1/31/2011	Selenium	Monthly	4.7	5.09	8%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1017152	S503097	014	2/12/11	Selenium	Daily	8.2	8.94	9%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	2/28/2011	Selenium	Monthly	4.7	7.78	66%	28	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	3/31/2011	Selenium	Monthly	4.7	5.71	21%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	4/19/11	Selenium	Daily	8.2	8.28	1%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	4/30/2011	Selenium	Monthly	4.7	8.28	76%	30	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	5/31/2011	Selenium	Monthly	4.7	4.955	5%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	7/31/2011	Selenium	Monthly	4.70	5.57	19%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	11/30/2011	Selenium	Monthly	4.70	5.63	20%	30	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	1/25/2012	Selenium	Daily	8.20	8.25	1%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	1/31/2012	Selenium	Monthly	4.70	6.9925	49%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	3/31/2012	Selenium	Monthly	4.70	4.8166667	2%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	12/31/2012	Selenium	Monthly	4.70	6.24	32.77%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	12/31/2012	Selenium	Daily	8.20	8.33	1.59%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	1/14/2013	Selenium	Daily	8.20	12.7	54.88%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	1/29/2013	Selenium	Monthly	4.70	11.45	143.62%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	1/29/2013	Selenium	Daily	8.20	10.2	24.39%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	2/14/2013	Total Selenium (981)	Daily	8.20	9.1	10.98%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	2/28/2013	Total Selenium (981)	Monthly	4.70	6.76	43.83%	28	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	3/28/2013	Total Selenium (981)	Daily	8.20	8.74	6.59%	1	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	3/28/2013	Total Selenium (981)	Monthly	4.70	7.44	58.30%	31	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	014	4/25/2013	Total Selenium (981)	Monthly	4.70	6.52	38.72%	30	37° 56' 24"	81° 45' 9"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S-5030-97	017	1/7/09	Aluminum, Total	Daily	0.75	1.19	59%	1	37°56'42"	81°45'4"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S-5030-97	017	1/31/2009	Aluminum, Total	Monthly	0.43	0.96	123%	31	37°56'42"	81°45'4"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	4/30/2010	Selenium	Monthly	4.70	6.86	46%	30	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1017152	S503097	019	5/8/10	Selenium	Daily	8.2	9.52	16%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	5/31/2010	Selenium	Monthly	4.7	7.31	56%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	8/13/10	Selenium	Daily	8.2	10.5	28%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	8/26/10	Selenium	Daily	8.2	10.6	29%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	8/31/2010	Selenium	Monthly	4.7	10.55	124%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	9/4/10	Selenium	Daily	8.2	8.82	8%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	9/22/10	Selenium	Daily	8.2	8.98	10%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	9/30/2010	Selenium	Monthly	4.7	8.9	89%	30	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	10/31/2010	Selenium	Monthly	4.70	6.54	39%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	12/29/10	Selenium	Daily	8.2	9.81	20%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	12/31/2010	Selenium	Monthly	4.7	7.805	66%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	1/31/2011	Selenium	Monthly	4.7	5.96	27%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	2/28/2011	Selenium	Monthly	4.7	7.065	50%	28	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	3/17/11	Selenium	Daily	8.2	9.36	14%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	3/28/11	Selenium	Daily	8.2	8.78	7%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	3/31/2011	Selenium	Monthly	4.7	9.07	93%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	4/19/11	Selenium	Daily	8.2	10.2	24%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	4/30/2011	Selenium	Monthly	4.7	10.2	117%	30	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	5/31/11	Selenium	Daily	8.2	8.74	7%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	5/31/2011	Selenium	Monthly	4.7	7.88	68%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	6/30/2011	Selenium	Daily	8.20	8.49	4%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	6/30/2011	Selenium	Monthly	4.70	8.49	81%	30	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	7/31/2011	Selenium	Monthly	4.70	6.79	44%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	11/30/2011	Selenium	Monthly	4.70	4.94	5%	30	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	1/25/2012	Selenium	Daily	8.20	8.4	2%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1017152	S503097	019	1/31/2012	Selenium	Monthly	4.70	7.2375	54%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	3/31/2012	Selenium	Monthly	4.70	4.9633333	6%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	12/31/2012	Selenium	Monthly	4.70	5.65	20.21%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	1/14/2013	Selenium	Daily	8.20	13.1	59.76%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	1/29/2013	Selenium	Monthly	4.70	11.5	144.68%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	1/29/2013	Selenium	Daily	8.20	9.9	20.73%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	2/14/2013	Total Selenium (981)	Daily	8.20	8.23	0.37%	1	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	2/28/2013	Total Selenium (981)	Monthly	4.70	6.1275	30.37%	28	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S503097	019	3/28/2013	Total Selenium (981)	Monthly	4.70	7.24	54.04%	31	37° 56' 51"	81° 45' 32"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S-5030-97	023	1/7/09	Total Suspended Solids	Daily	70	156	123%	1	37°57'25"	81°45'34"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S-5030-97	023	1/7/09	Aluminum, Total	Daily	0.75	1.64	119%	1	37°57'25"	81°45'34"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152	S-5030-97	023	1/31/2009	Aluminum, Total	Monthly	0.43	0.6357	48%	31	37°57'25"	81°45'34"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152		033	6/30/2011	Selenium	Monthly	4.70	7.15	52%	30	37° 56' 37"	81° 44' 13"	Bull Creek
Independence Coal Company, Inc.	WV1017152		041	11/8/2011	Selenium	Daily	8.20	9.75	19%	1	37° 56' 31"	81° 45' 19"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1017152		041	11/30/2011	Selenium	Monthly	4.70	9.75	107%	30	37° 56' 31"	81° 45' 19"	Trace Br/Spruce Laurel Fk
Independence Coal Company, Inc.	WV1019228	S-3019-99	019	7/31/2010	Selenium	Monthly	4.7	23.2	394%	31	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	8/11/10	Selenium	Daily	8.2	17.5	113%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	8/26/10	Selenium	Daily	8.2	17.7	116%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	8/31/2010	Selenium	Monthly	4.7	17.6	274%	31	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	9/8/10	Selenium	Daily	8.2	22.8	178%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	9/30/2010	Selenium	Monthly	4.7	22.8	385%	30	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S-3019-99	019	5/30/2012	Selenium	Daily	8.2000	21.04	157%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S-3019-99	019	5/31/2012	Selenium	Daily	8.2000	19.54	138%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S-3019-99	019	5/31/2012	Selenium	Monthly	4.7	20.29	332%	31	37°54'36"	81°32'54"	Marsh Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1019228	S301999	019	7/1/2012	Selenium	Monthly	4.7000	12.5000	165.96%	31	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	7/31/2012	Selenium	Daily	8.2000	12.5000	52.44%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	11/1/2012	Selenium	Monthly	4.7000	19.0550	305.43%	30	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	11/15/2012	Selenium	Daily	8.2000	18.5200	125.85%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	11/30/2012	Selenium	Daily	8.2000	19.5900	138.90%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	12/1/2012	Selenium	Monthly	4.7000	15.6050	232.02%	31	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	12/7/2012	Selenium	Daily	8.2000	19.3900	136.46%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	12/28/2012	Selenium	Daily	8.2000	11.8200	44.15%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	1/1/2013	Selenium	Monthly	4.7000	23.1700	392.98%	31	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	1/4/2013	Selenium	Daily	8.2000	22.2600	171.46%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	1/25/2013	Selenium	Daily	8.2000	24.0800	193.66%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	2/5/2013	Total Selenium (981)	Daily	8.2000	21.4400	161.46%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	2/22/2013	Total Selenium (981)	Daily	8.2000	19.9400	143.17%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	2/28/2013	Total Selenium (981)	Monthly	4.7000	20.6900	340.21%	28	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	3/8/2013	Total Selenium (981)	Daily	8.2000	12.5700	53.29%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	3/22/2013	Total Selenium (981)	Daily	8.2000	14.9400	82.20%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	3/31/2013	Total Selenium (981)	Monthly	4.7000	13.7550	192.66%	31	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	4/12/2013	Total Selenium (981)	Daily	8.2000	12.6300	54.02%	1	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1019228	S301999	019	4/30/2013	Total Selenium (981)	Monthly	4.7000	6.3150	34.36%	30	37°54'36"	81°32'54"	Marsh Fk
Independence Coal Company, Inc.	WV1020358	S-5012-00	024	4/28/08	Aluminum, Total	Daily	0.14	0.29	107%	1	38°5'7"	81°42'58"	Morgan Br
Independence Coal Company, Inc.	WV1020358	S-5012-00	026	12/14/10	Aluminum, Total	Daily	0.7500	0.8400	12%	1	38°5'17"	81°42'42"	Morgan Br
Independence Coal Company, Inc.	WV1020374	S-5014-00	001	8/31/2008	Manganese, Total	Monthly	2	2.29	15%	31	38°2'20"	81°43'33"	Robinson Ck
Independence Coal Company, Inc.	WV1020374	S-5014-00	001	9/30/2008	Manganese, Total	Monthly	2	3.2	60%	30	38°2'20"	81°43'33"	Robinson Ck
Independence Coal Company, Inc.	WV1020374	S-5014-00	001	10/31/2008	Manganese, Total	Monthly	2	3.665	83%	31	38°2'20"	81°43'33"	Robinson Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	2/7/08	Aluminum, Total	Daily	0.42	0.88	110%	1	38°2'27"	81°40'2"	Chrisley Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	2/28/2008	Aluminum, Total	Monthly	0.24	0.46	92%	28	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	6/25/08	Total Suspended Solids	Daily	70	106	51%	1	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	6/30/2008	Aluminum, Total	Monthly	0.24	3.136666	1207%	30	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	6/30/2008	Total Suspended Solids	Monthly	35	3033.3333	8567%	30	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	7/8/08	Iron, Total	Daily	1.36	33.87	2390%	1	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	7/8/08	Total Suspended Solids	Daily	70	8992	12746%	1	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	7/8/08	Aluminum, Total	Daily	0.42	8.92	2024%	1	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	7/31/2008	Iron, Total	Monthly	0.79	17.185	2075%	31	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	7/31/08	Total Suspended Solids	Daily	70	342	389%	1	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	7/31/2008	Total Suspended Solids	Monthly	35	4667	13234%	31	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	7/31/08	Aluminum, Total	Daily	0.42	0.48	14%	1	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	002	7/31/2008	Aluminum, Total	Monthly	0.24	4.7	1858%	31	38°2'27"	81°40'2"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	004	2/7/08	Aluminum, Total	Daily	0.42	0.56	33%	1	38°2'52"	81°40'5"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	004	2/7/08	Total Suspended Solids	Daily	70	97	39%	1	38°2'52"	81°40'5"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	004	2/28/2008	Aluminum, Total	Monthly	0.24	0.34	42%	28	38°2'52"	81°40'5"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	004	2/28/2008	Total Suspended Solids	Monthly	35	49.5	41%	28	38°2'52"	81°40'5"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	004	6/30/2008	Aluminum, Total	Monthly	0.24	0.27	13%	30	38°2'52"	81°40'5"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	004	7/31/08	Aluminum, Total	Daily	0.42	0.51	21%	1	38°2'52"	81°40'5"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	004	7/31/2008	Aluminum, Total	Monthly	0.24	0.335	40%	31	38°2'52"	81°40'5"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	004	8/31/2008	Aluminum, Total	Monthly	0.24	0.32	33%	31	38°2'52"	81°40'5"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	004	9/30/2008	Aluminum, Total	Monthly	0.24	0.27	13%	30	38°2'52"	81°40'5"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	004	12/18/08	Aluminum, Total	Daily	0.42	0.5	19%	1	38°2'52"	81°40'5"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	004	3/30/09	Aluminum, Total	Daily	0.42	0.59	40%	1	38°2'52"	81°40'5"	Chrisley Fk
Independence Coal Company, Inc.	WV1020650	S-5024-01	008	5/20/08	Aluminum, Total	Daily	0.42	0.47	12%	1	38°2'34"	81°41'28"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	008	5/31/2008	Manganese, Total	Monthly	2	2.02	1%	31	38°2'34"	81°41'28"	Laurel Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1020650	S-5024-01	008	6/30/2008	Aluminum, Total	Monthly	0.24	0.265	10%	30	38°2'34"	81°41'28"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	008	7/31/2008	Aluminum, Total	Monthly	0.24	0.26	8%	31	38°2'34"	81°41'28"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	008	8/31/2008	Aluminum, Total	Monthly	0.24	0.26	8%	31	38°2'34"	81°41'28"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	008	12/27/08	Manganese, Total	Daily	3.47	3.56	3%	1	38°2'34"	81°41'28"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	008	12/31/2008	Manganese, Total	Monthly	2	2.538	27%	31	38°2'34"	81°41'28"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	008	1/31/2009	Aluminum, Total	Monthly	0.24	0.325	35%	31	38°2'34"	81°41'28"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	008	3/31/2009	Aluminum, Total	Monthly	0.24	0.3325	39%	31	38°2'34"	81°41'28"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	009	5/31/08	Aluminum, Total	Daily	0.42	0.51	21%	1	38°2'18"	81°42'3"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	009	5/31/2008	Aluminum, Total	Monthly	0.24	0.2565	7%	31	38°2'18"	81°42'3"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	009	8/31/2008	Iron, Total	Monthly	0.52	0.87	67%	31	38°2'18"	81°42'3"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	009	1/31/2009	Aluminum, Total	Monthly	0.24	0.255	6%	31	38°2'18"	81°42'3"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	009	2/28/2009	Aluminum, Total	Monthly	0.24	0.305	27%	28	38°2'18"	81°42'3"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	009	3/31/2009	Aluminum, Total	Monthly	0.24	0.245	2%	31	38°2'18"	81°42'3"	Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	012	2/28/2008	Aluminum, Total	Monthly	0.32	0.4	25%	28	38°1'54"	81°42'36"	Little Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	012	5/31/08	Aluminum, Total	Daily	0.55	0.66	20%	1	38°1'54"	81°42'36"	Little Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	012	5/31/2008	Aluminum, Total	Monthly	0.32	0.48	50%	31	38°1'54"	81°42'36"	Little Laurel Ck
Independence Coal Company, Inc.	WV1020650	S-5024-01	012	8/5/09	Aluminum, Total	Daily	0.55	0.71	29%	1	38°1'54"	81°42'36"	Little Laurel Ck
Independence Coal Company, Inc.	WV1020706	S-5001-02	033	11/30/2011	Aluminum, Total	Monthly	0.43	0.5103	19%	30	37-57-28	81-44-47	Coal River
Independence Coal Company, Inc.	WV1020706	S-5001-02	033	3/31/2012	Aluminum, Total	Monthly	0.43	0.5115	19%	31	37-57-28	81-44-47	Coal River
Independence Coal Company, Inc.	WV1020706	S-5001-02	033	5/31/2012	Aluminum, Total	Monthly	0.43	0.4916	14%	31	37-57-28	81-44-47	Coal River
Independence Coal Company, Inc.	WV1020706	O501106 S500102	033	10/1/2012	Aluminum, Total	Monthly	0.4300	0.5140	19.53%	31	37-57-28	81-44-47	Coal River
Independence Coal Company, Inc.	WV1020706		037	7/31/2008	Aluminum, Total	Monthly	0.43	0.46	7%	31	37°58'13"	81°45'4"	Bull Ck/Pond Fk
Independence Coal Company, Inc.	WV1029711	S-5020-07	001	3/29/10	Aluminum, Total	Daily	0.57	0.66	16%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	3/31/2010	Selenium	Monthly	4.7	6.29	34%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S-5020-07	001	3/31/2010	Aluminum, Total	Monthly	0.33	0.66	100%	31	37°53'37"	81°35'7"	Mats Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1029711	S502007	001	3/7/11	Selenium	Daily	8.2	14.46	76%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	3/22/11	Selenium	Daily	8.2	13.1	60%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	3/31/2011	Selenium	Monthly	4.7	13.78	193%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	4/7/11	Selenium	Daily	8.2	11.28	38%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	4/13/11	Selenium	Daily	8.2	10.38	27%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	4/30/2011	Selenium	Monthly	4.7	6.735	43%	30	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	9/30/2011	Selenium	Daily	8.2000	9.48	16%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	9/30/2011	Selenium	Monthly	4.7	9.48	102%	30	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	10/20/11	Selenium	Daily	8.2000	12.32	50%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	10/31/2011	Selenium	Monthly	4.7	9.19	96%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	11/1/2011	Selenium	Daily	8.2000	18.98	131%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	11/17/11	Selenium	Daily	8.2000	18.11	121%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	11/30/2011	Selenium	Monthly	4.7	18.545	295%	30	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	12/22/11	Selenium	Daily	8.2000	12.88	57%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	12/31/2011	Selenium	Monthly	4.7	9.125	94%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	1/5/2012	Selenium	Daily	8.2000	13.3	62%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	1/23/2012	Selenium	Daily	8.2000	13.1	60%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	1/31/2012	Selenium	Monthly	4.7	13.2	181%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	2/2/2012	Selenium	Daily	8.2000	11.15	36%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	2/21/2012	Selenium	Daily	8.2000	9.54	16%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	2/29/2012	Selenium	Monthly	4.7	10.345	120%	28	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	3/8/2012	Selenium	Daily	8.2000	13.66	67%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	3/19/2012	Selenium	Daily	8.2000	11.95	46%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	3/31/2012	Selenium	Monthly	4.7	12.805	172%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	4/2/2012	Selenium	Daily	8.2000	10.32	26%	1	37°53'37"	81°35'7"	Mats Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1029711	S502007	001	4/18/2012	Selenium	Daily	8.2000	11.5	40%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	4/30/2012	Selenium	Monthly	4.7	10.91	132%	30	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	5/7/2012	Selenium	Daily	8.2000	12.33	50%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	5/17/2012	Selenium	Daily	8.2000	10.61	29%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	5/31/2012	Selenium	Monthly	4.7	11.47	144%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	6/1/2012	Selenium	Monthly	4.7000	9.1350	94.36%	30	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	6/1/2012	Selenium	Daily	8.2000	9.5400	16.34%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	6/15/2012	Selenium	Daily	8.2000	8.7300	6.46%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	7/1/2012	Selenium	Monthly	4.7000	12.2600	160.85%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	7/5/2012	Selenium	Daily	8.2000	11.8400	44.39%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	7/17/2012	Selenium	Daily	8.2000	12.6800	54.63%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	8/1/2012	Selenium	Monthly	4.7000	25.5200	442.98%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	8/2/2012	Selenium	Daily	8.2000	30.1400	267.56%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	8/20/2012	Selenium	Daily	8.2000	20.9000	154.88%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	9/1/2012	Selenium	Monthly	4.7000	23.2200	394.04%	30	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	9/11/2012	Selenium	Daily	8.2000	35.6300	334.51%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	9/26/2012	Selenium	Daily	8.2000	10.8100	31.83%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	10/1/2012	Selenium	Monthly	4.7000	24.1200	413.19%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	10/8/2012	Selenium	Daily	8.2000	24.1200	194.15%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	11/1/2012	Selenium	Monthly	4.7000	20.3550	333.09%	30	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	11/1/2012	Selenium	Daily	8.2000	22.2500	171.34%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	11/20/2012	Selenium	Daily	8.2000	18.4600	125.12%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	12/1/2012	Selenium	Monthly	4.7000	13.8600	194.89%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	12/4/2012	Selenium	Daily	8.2000	10.7600	31.22%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	12/17/2012	Selenium	Daily	8.2000	16.9600	106.83%	1	37°53'37"	81°35'7"	Mats Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Independence Coal Company, Inc.	WV1029711	S502007	001	1/1/2013	Selenium	Monthly	4.7000	21.4950	357.34%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	1/2/2013	Selenium	Daily	8.2000	18.8000	129.27%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	1/17/2013	Selenium	Daily	8.2000	24.1900	195.00%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	2/4/2013	Total Selenium (981)	Daily	8.2000	15.0200	83.17%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	2/18/2013	Total Selenium (981)	Daily	8.2000	11.5900	41.34%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	2/28/2013	Total Selenium (981)	Monthly	4.7000	13.3050	183.09%	28	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	3/7/2013	Total Selenium (981)	Daily	8.2000	11.9200	45.37%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	3/20/2013	Total Selenium (981)	Daily	8.2000	12.7000	54.88%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	3/31/2013	Total Selenium (981)	Monthly	4.7000	12.3100	161.91%	31	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	4/2/2013	Total Selenium (981)	Daily	8.2000	12.6500	54.27%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	4/16/2013	Total Selenium (981)	Daily	8.2000	16.4900	101.10%	1	37°53'37"	81°35'7"	Mats Ck
Independence Coal Company, Inc.	WV1029711	S502007	001	4/30/2013	Total Selenium (981)	Monthly	4.7000	14.5700	210.00%	30	37°53'37"	81°35'7"	Mats Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	1/31/2008	Aluminum, Total	Monthly	0.43	4.05	842%	31	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	1/31/2008	Iron, Total	Monthly	2.12	6.03	184%	31	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/11/08	Aluminum, Total	Daily	0.75	2.71	261%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/28/2008	Aluminum, Total	Monthly	0.43	1.54	258%	28	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/11/08	Aluminum, Total	Daily	0.75	1.25	67%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/11/08	pH	Daily	6	5.95	1%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/21/08	Aluminum, Total	Daily	0.75	0.78	4%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/31/2008	Aluminum, Total	Monthly	0.43	1.015	136%	31	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	002	5/14/08	Aluminum, Total	Daily	0.75	0.92	23%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	002	5/27/08	Aluminum, Total	Daily	0.75	2.71	261%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	002	5/27/08	pH	Daily	6	4.52	25%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	002	5/31/2008	Aluminum, Total	Monthly	0.43	1.815	322%	31	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	002	6/24/08	Aluminum, Total	Daily	0.75	0.82	9%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	002	6/30/2008	Aluminum, Total	Monthly	0.43	0.723333	68%	30	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	7/11/08	Aluminum, Total	Daily	0.75	1.15	53%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	7/31/2008	Aluminum, Total	Monthly	0.43	1.15	167%	31	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	1/17/09	Iron, Total	Daily	3.68	10.85	195%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	1/17/09	pH	Daily	6	4.71	22%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	1/17/09	Aluminum, Total	Daily	0.75	3.65	387%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	1/30/09	Iron, Total	Daily	3.68	65.49	1680%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	1/30/09	Aluminum, Total	Daily	0.75	18.4	2353%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	1/31/2009	Iron, Total	Monthly	2.12	38.17	1700%	31	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	1/31/2009	Manganese, Total	Monthly	2	2.435	22%	31	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	1/31/2009	Aluminum, Total	Monthly	0.43	11.025	2464%	31	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/15/09	Iron, Total	Daily	3.68	7.42	102%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/15/09	pH	Daily	6	3.81	37%	1	37°7'23"	81°41'35"	Drawdy Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/15/09	Aluminum, Total	Daily	0.75	2.19	192%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/20/09	Iron, Total	Daily	3.68	13.71	273%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/20/09	pH	Daily	6	3.39	44%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/20/09	Aluminum, Total	Daily	0.75	4.04	439%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/23/09	Iron, Total	Daily	3.68	15.99	335%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/23/09	pH	Daily	6	3.47	42%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/23/09	Aluminum, Total	Daily	0.75	7.35	880%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/28/2009	Iron, Total	Monthly	2.12	12.3733	484%	28	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	2/28/2009	Aluminum, Total	Monthly	0.43	4.5267	953%	28	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/16/09	Iron, Total	Daily	3.68	10.25	179%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/16/09	pH	Daily	6	4	33%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/16/09	Aluminum, Total	Daily	0.75	4.18	457%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/27/09	Iron, Total	Daily	3.68	33.63	814%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/27/09	pH	Daily	6	3.2	47%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/27/09	Aluminum, Total	Daily	0.75	13.74	1732%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/27/09	Manganese, Total	Daily	3.47	4	15%	1	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/31/2009	Iron, Total	Monthly	2.12	21.94	935%	31	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/31/2009	Manganese, Total	Monthly	2	3.285	64%	31	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	002	3/31/2009	Aluminum, Total	Monthly	0.43	8.96	1984%	31	37°7'23"	81°41'35"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	003	7/11/08	Total Suspended Solids	Daily	70	102	46%	1	38°6'54"	81°41'30"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	003	7/31/2008	Total Suspended Solids	Monthly	35	102	191%	31	38°6'54"	81°41'30"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	003	7/31/2008	Iron, Total	Monthly	2.12	2.66	25%	31	38°6'54"	81°41'30"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	003	10/2/09	Iron, Total	Daily	3.68	7.56	105%	1	38°6'54"	81°41'30"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	003	10/31/2009	Iron, Total	Monthly	2.12	7.56	257%	31	38°6'54"	81°41'30"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759		006	6/30/2008	Manganese, Total	Monthly	2	2.885	44%	30	38°6'51"	81°41'28"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	1/31/2008	Aluminum, Total	Monthly	0.43	0.44	2%	31	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	1/31/2008	Iron, Total	Monthly	3	3.61	20%	31	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	1/31/2008	Manganese, Total	Monthly	2	2.755	38%	31	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	2/11/08	Aluminum, Total	Daily	0.75	0.89	19%	1	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	2/28/2008	Aluminum, Total	Monthly	0.43	0.71	65%	28	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	2/28/2008	Manganese, Total	Monthly	2	2.185	9%	28	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	7/31/2008	Manganese, Total	Monthly	2	2.05	2%	31	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	1/28/09	Aluminum, Total	Daily	0.75	1.07	43%	1	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	1/31/2009	Aluminum, Total	Monthly	0.43	0.72	67%	31	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	4/15/10	Aluminum, Total	Daily	0.75	2.84	279%	1	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D-0101-82	007	4/30/2010	Aluminum, Total	Monthly	0.43	1.65	284%	30	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	5/25/10	Aluminum, Total	Daily	0.75	1.77	136%	1	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D-0101-82	007	5/31/2010	Aluminum, Total	Monthly	0.43	1	133%	31	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D010182	007	12/31/2010	Aluminum, Total	Monthly	0.43	0.4871	13%	31	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	007	1/30/2012	Aluminum, Total	Daily	0.7500	0.92	23%	1	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	007	1/31/2012	Aluminum, Total	Monthly	0.43	0.52	21%	31	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	007	2/16/2012	Aluminum, Total	Daily	0.7500	1.37	83%	1	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	007	3/12/2012	Aluminum, Total	Daily	0.7500	1.09	45%	1	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	007	3/20/2012	Aluminum, Total	Daily	0.7500	0.91	21%	1	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	O-36-82	007	5/11/2012	Aluminum, Total	Daily	0.7500	1.31	75%	1	38°7'10"	81°42'25"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759	D-101-82	011	5/31/2011	Aluminum, Total	Monthly	0.43	0.63	47%	31	38° 5' 57"	81° 42' 21"	Burnside Br
Jacks Branch Coal Co.	WV0047759	D-101-82	011	12/31/2011	Manganese, Total	Daily	0.3600	1.77	392%	1	38° 5' 57"	81° 42' 21"	Burnside Br
Jacks Branch Coal Co.	WV0047759	D-101-82	011	12/31/2011	Manganese, Total	Monthly	0.21	1.77	743%	31	38° 5' 57"	81° 42' 21"	Burnside Br
Jacks Branch Coal Co.	WV0047759	D-101-82	011	1/23/2012	Manganese, Total	Daily	0.3600	0.81	125%	1	38° 5' 57"	81° 42' 21"	Burnside Br
Jacks Branch Coal Co.	WV0047759	D-101-82	011	1/26/2012	Manganese, Total	Daily	0.3600	0.57	58%	1	38° 5' 57"	81° 42' 21"	Burnside Br

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV0047759	D-101-82	011	1/31/2012	Manganese, Total	Monthly	0.21	0.69	229%	31	38° 5' 57"	81° 42' 21"	Burnside Br
Jacks Branch Coal Co.	WV0047759	D10182	012	2/9/11	Iron, Total	Daily	0.53	1.53	189%	1	38° 7' 26"	81° 39' 33"	Indian Ck
Jacks Branch Coal Co.	WV0047759	D10182	012	2/21/11	Aluminum, Total	Daily	0.22	0.25	14%	1	38° 7' 26"	81° 39' 33"	Indian Ck
Jacks Branch Coal Co.	WV0047759	D10182	012	2/28/2011	Aluminum, Total	Monthly	0.13	0.1833	41%	28	38° 7' 26"	81° 39' 33"	Indian Ck
Jacks Branch Coal Co.	WV0047759	D10182	012	2/28/2011	Iron, Total	Monthly	0.31	0.895	189%	28	38° 7' 26"	81° 39' 33"	Indian Ck
Jacks Branch Coal Co.	WV0047759	D10182	012	3/15/11	Iron, Total	Daily	0.53	0.81	53%	1	38° 7' 26"	81° 39' 33"	Indian Ck
Jacks Branch Coal Co.	WV0047759	D10182	012	3/31/2011	Iron, Total	Monthly	0.31	0.81	161%	31	38° 7' 26"	81° 39' 33"	Indian Ck
Jacks Branch Coal Co.	WV0047759		401	9/30/10	BOD, 5-Day 20 Deg.C	Daily	0.24	1.0544429	339%	1	38° 4' 56"	81° 41' 29"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759		401	9/30/2010	BOD, 5-Day 20 Deg.C	Monthly	0.12	1.054443	779%	30	38° 4' 56"	81° 41' 29"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759		401	9/30/10	Flow, in Conduit or thru plant	Daily	0.0014	0.0288	1957%	1	38° 4' 56"	81° 41' 29"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759		401	9/30/10	Nitrogen, Kjeldahl Total	Daily	0.24	0.6725376	180%	1	38° 4' 56"	81° 41' 29"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759		401	9/30/2010	Nitrogen, Kjeldahl Total	Monthly	0.12	0.672538	460%	30	38° 4' 56"	81° 41' 29"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759		401	9/30/10	Total Suspended Solids	Daily	0.7	1.441152	106%	1	38° 4' 56"	81° 41' 29"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759		401	9/30/2010	Total Suspended Solids	Monthly	0.35	1.441152	312%	30	38° 4' 56"	81° 41' 29"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759		403	3/31/10	BOD, 5-Day 20 Deg.C	Daily	0.16	0.1735387	8%	1	38° 6' 52"	81° 41' 33"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759		403	3/31/2010	BOD, 5-Day 20 Deg.C	Monthly	0.08	0.097882	22%	31	38° 6' 52"	81° 41' 33"	Drawdy Ck
Jacks Branch Coal Co.	WV0047759		403	9/30/10	Flow, in Conduit or thru plant	Daily	0.001	0.0014	40%	1	38° 6' 52"	81° 41' 33"	Drawdy Ck
Jacks Branch Coal Co.	WV0093912	S000684	005	7/7/10	Total Suspended Solids	Daily	70	71	1%	1	38°14'12"	81°17'25"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	Z000481	006	7/31/08	Aluminum, Total	Daily	0.75	1.27	69%	1	38°15'4"	81°14'31"	Hughes Fk/Bells Ck
Jacks Branch Coal Co.	WV0093912	Z000481	006	7/31/2008	Aluminum, Total	Monthly	0.43	0.572	33%	31	38°15'4"	81°14'31"	Hughes Fk/Bells Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/5/2010	Selenium	Daily	8.20	19	132%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/12/10	Selenium	Daily	8.2	19.3	135%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/30/2010	Selenium	Monthly	4.7	19.15	307%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	5/5/10	Selenium	Daily	8.2	15.4	88%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	5/24/10	Selenium	Daily	8.2	20.2	146%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	5/31/2010	Selenium	Monthly	4.7	17.8	279%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	6/2/10	Selenium	Daily	8.2	17.8	117%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	6/15/10	Selenium	Daily	8.2	16	95%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	6/30/2010	Selenium	Monthly	4.7	16.9	260%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	7/6/10	Selenium	Daily	8.2	17.6	115%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	7/29/10	Selenium	Daily	8.2	16.3	99%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	7/31/2010	Selenium	Monthly	4.7	16.95	261%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	8/12/10	Selenium	Daily	8.2	18.2	122%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	8/20/10	Selenium	Daily	8.2	15.6	90%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	8/31/2010	Selenium	Monthly	4.7	16.9	260%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	9/1/10	Selenium	Daily	8.2	14.2	73%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	9/17/10	Selenium	Daily	8.2	12.8	56%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	9/30/2010	Selenium	Monthly	4.7	13.5	187%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	10/1/10	Selenium	Daily	8.2	12	46%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	10/12/10	Selenium	Daily	8.2	14.5	77%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	10/31/2010	Selenium	Monthly	4.7	13.25	182%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	11/1/10	Selenium	Daily	8.2	12.1	48%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	11/10/10	Selenium	Daily	8.2	13.2	61%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	11/30/2010	Selenium	Monthly	4.7	12.65	169%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	12/3/10	Selenium	Daily	8.2	9.33	14%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	12/20/10	Selenium	Daily	8.2	10.2	24%	1	38° 13' 5"	81° 19' 54"	Hughes Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV0093912	S000684	013	12/31/2010	Selenium	Monthly	4.7	9.765	108%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	1/3/11	Selenium	Daily	8.2	11	34%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	1/20/11	Selenium	Daily	8.2	12.3	50%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	1/31/2011	Selenium	Monthly	4.7	11.65	148%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	2/11/11	Selenium	Daily	8.2	14.5	77%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	2/27/11	Selenium	Daily	8.2	13.6	66%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	2/28/2011	Selenium	Monthly	4.7	14.05	199%	28	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	3/8/11	Selenium	Daily	8.2	12.8	56%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	3/23/11	Selenium	Daily	8.2	14.3	74%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	3/31/2011	Selenium	Monthly	4.7	13.55	188%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/7/11	Selenium	Daily	8.2	12.9	57%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/21/11	Selenium	Daily	8.2	14.6	78%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/30/2011	Selenium	Monthly	4.7	13.75	193%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	5/3/11	Selenium	Daily	8.2	13.1	60%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	5/25/11	Selenium	Daily	8.2	16.3	99%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	5/31/2011	Selenium	Monthly	4.7	14.7	213%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	6/3/11	Selenium	Daily	8.2	15.3	87%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	6/13/11	Selenium	Daily	8.2	15.6	90%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	6/30/2011	Selenium	Monthly	4.7	15.45	229%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	7/16/2011	Selenium	Daily	8.20	14.1	72%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	7/26/2011	Selenium	Daily	8.20	12.9	57%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	7/31/2011	Selenium	Monthly	4.70	13.5	187%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	8/1/2011	Selenium	Daily	8.20	12.9	57%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	8/10/2011	Selenium	Daily	8.20	13.9	70%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	8/31/2011	Selenium	Monthly	4.70	13.4	185%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	9/12/2011	Selenium	Daily	8.20	10.7	30%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	9/21/2011	Selenium	Daily	8.20	12.8	56%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	9/30/2011	Selenium	Monthly	4.70	11.75	150%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	10/3/2011	Selenium	Daily	8.20	12.9	57%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	10/12/2011	Selenium	Daily	8.20	15.8	93%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	10/31/2011	Selenium	Monthly	4.70	14.35	205%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	11/4/2011	Selenium	Daily	8.20	16.7	104%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	11/16/2011	Selenium	Daily	8.20	17	107%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	11/30/2011	Selenium	Monthly	4.70	16.85	259%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	12/1/2011	Selenium	Daily	8.20	15.4	88%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	12/12/2011	Selenium	Daily	8.20	18.1	121%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	12/31/2011	Selenium	Monthly	4.70	16.75	256%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	1/5/2012	Selenium	Daily	8.20	14.3	74%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	1/18/2012	Selenium	Daily	8.20	13.8	68%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	1/31/2012	Selenium	Monthly	4.70	14.05	199%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	2/1/2012	Selenium	Daily	8.20	12.6	54%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	2/15/2012	Selenium	Daily	8.20	12.9	57%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	2/29/2012	Selenium	Monthly	4.70	12.75	171%	28	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	3/5/2012	Selenium	Daily	8.20	11.2	37%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	3/21/2012	Selenium	Daily	8.20	12.7	55%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	3/31/2012	Selenium	Monthly	4.70	11.95	154%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/2/2012	Selenium	Daily	8.20	13.4	63%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/16/2012	Selenium	Daily	8.20	12.3	50%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/30/2012	Selenium	Monthly	4.70	12.85	173%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	5/9/2012	Selenium	Daily	8.20	12.2	49%	1	38° 13' 5"	81° 19' 54"	Hughes Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV0093912	S000684	013	5/22/2012	Selenium	Daily	8.20	14.2	73%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	5/31/2012	Selenium	Monthly	4.70	13.2	181%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	6/13/2012	Selenium	Daily	8.20	12	46.34%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	6/26/2012	Selenium	Monthly	4.70	12.75	171.28%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	6/26/2012	Selenium	Daily	8.20	13.5	64.63%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	7/11/2012	Selenium	Daily	8.20	13.6	65.85%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	7/20/2012	Selenium	Monthly	4.70	12.95	175.53%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	7/20/2012	Selenium	Daily	8.20	12.3	50.00%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	8/6/2012	Selenium	Daily	8.20	12.3	50.00%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	8/16/2012	Selenium	Monthly	4.70	13.9	195.74%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	8/16/2012	Selenium	Daily	8.20	15.5	89.02%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	9/7/2012	Selenium	Daily	8.20	14.3	74.39%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	9/19/2012	Selenium	Monthly	4.70	12.7	170.21%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	9/19/2012	Selenium	Daily	8.20	11.1	35.37%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	10/8/2012	Selenium	Daily	8.20	14.1	71.95%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	10/18/2012	Selenium	Monthly	4.70	13.9	195.74%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	10/18/2012	Selenium	Daily	8.20	13.7	67.07%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	11/6/2012	Selenium	Daily	8.20	13.3	62.20%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	11/16/2012	Selenium	Monthly	4.70	14.6	210.64%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	11/16/2012	Selenium	Daily	8.20	15.9	93.90%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	12/8/2012	Selenium	Daily	8.20	10.9	32.93%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	12/18/2012	Selenium	Monthly	4.70	11.75	150.00%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	12/18/2012	Selenium	Daily	8.20	12.6	53.66%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	1/9/2013	Selenium	Daily	8.20	13.9	69.51%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	1/25/2013	Selenium	Monthly	4.70	14.55	209.57%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	1/25/2013	Selenium	Daily	8.20	15.2	85.37%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	2/6/2013	Total Selenium (981)	Daily	8.20	14.9	81.71%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	2/18/2013	Total Selenium (981)	Daily	8.20	14.5	76.83%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	2/18/2013	Total Selenium (981)	Monthly	4.70	14.7	212.77%	28	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	3/5/2013	Total Selenium (981)	Daily	8.20	15.1	84.15%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	3/15/2013	Total Selenium (981)	Daily	8.20	13.6	65.85%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	3/15/2013	Total Selenium (981)	Monthly	4.70	14.35	205.32%	31	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/1/2013	Total Selenium (981)	Daily	8.20	13.3	62.20%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/11/2013	Total Selenium (981)	Daily	8.20	13	58.54%	1	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	013	4/11/2013	Total Selenium (981)	Monthly	4.70	13.15	179.79%	30	38° 13' 5"	81° 19' 54"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	10/4/10	Selenium	Daily	8.2	9.17	12%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	10/11/10	Selenium	Daily	8.2	8.78	7%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	10/31/2010	Selenium	Monthly	4.7	8.975	91%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	11/2/10	Selenium	Daily	8.2	8.98	10%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	11/12/10	Selenium	Daily	8.2	8.91	9%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	11/30/2010	Selenium	Monthly	4.7	8.945	90%	30	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	12/2/10	Selenium	Daily	8.2	9.7	18%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	12/20/10	Selenium	Daily	8.2	11	34%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	12/31/2010	Selenium	Monthly	4.7	10.35	120%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	1/4/11	Selenium	Daily	8.2	12.7	55%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	1/20/11	Selenium	Daily	8.2	11	34%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	1/31/2011	Selenium	Monthly	4.7	11.85	152%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	2/2/11	Selenium	Daily	8.2	13.1	60%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	2/16/11	Selenium	Daily	8.2	14.4	76%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	2/28/2011	Selenium	Monthly	4.7	13.75	193%	28	38° 13' 37"	81° 18' 40"	Hughes Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV0093912	S000684	014	3/8/11	Selenium	Daily	8.2	13	59%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	3/16/11	Selenium	Daily	8.2	16.2	98%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	3/31/2011	Selenium	Monthly	4.7	14.6	211%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	4/15/11	Selenium	Daily	8.2	16.3	99%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	4/22/11	Selenium	Daily	8.2	16.6	102%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	4/30/2011	Selenium	Monthly	4.7	16.45	250%	30	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	5/6/11	Selenium	Daily	8.2	14.9	82%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	5/25/11	Selenium	Daily	8.2	18	120%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	5/31/2011	Selenium	Monthly	4.7	16.45	250%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	6/6/11	Selenium	Daily	8.2	17.9	118%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	6/15/11	Selenium	Daily	8.2	14.3	74%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	6/30/2011	Selenium	Monthly	4.7	16.1	243%	30	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	7/15/2011	Selenium	Daily	8.20	9.73	19%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	7/25/2011	Selenium	Daily	8.20	9.81	20%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	7/31/2011	Selenium	Monthly	4.70	9.77	108%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	9/30/2011	Selenium	Monthly	4.70	7.59	61%	30	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	10/6/2011	Selenium	Daily	8.20	11.3	38%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	10/31/2011	Selenium	Monthly	4.70	7.08	51%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	11/8/2011	Selenium	Daily	8.20	10.7	30%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	11/18/2011	Selenium	Daily	8.20	10.1	23%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	11/30/2011	Selenium	Monthly	4.70	10.4	121%	30	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	12/2/2011	Selenium	Daily	8.20	12.9	57%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	12/13/2011	Selenium	Daily	8.20	16.5	101%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	12/31/2011	Selenium	Monthly	4.70	14.7	213%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	1/3/2012	Selenium	Daily	8.20	13.3	62%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	1/17/2012	Selenium	Daily	8.20	14.7	79%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	1/31/2012	Selenium	Monthly	4.70	14	198%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	2/7/2012	Selenium	Daily	8.20	15.9	94%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	2/17/2012	Selenium	Daily	8.20	13.9	70%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	2/29/2012	Selenium	Monthly	4.70	14.9	217%	28	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	3/6/2012	Selenium	Daily	8.20	16.4	100%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	3/16/2012	Selenium	Daily	8.20	15.4	88%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	3/31/2012	Selenium	Monthly	4.70	15.9	238%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	4/10/2012	Selenium	Daily	8.20	16.5	101%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	4/20/2012	Selenium	Daily	8.20	14.6	78%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	4/30/2012	Selenium	Monthly	4.70	15.55	231%	30	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	5/8/2012	Selenium	Daily	8.20	12.7	55%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	5/18/2012	Selenium	Daily	8.20	13.8	68%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	5/31/2012	Selenium	Monthly	4.70	13.25	182%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	6/14/2012	Selenium	Daily	8.20	13.7	67.07%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	6/27/2012	Selenium	Monthly	4.70	12.4	163.83%	30	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	6/27/2012	Selenium	Daily	8.20	11.1	35.37%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	7/12/2012	Selenium	Daily	8.20	10	21.95%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	7/24/2012	Selenium	Monthly	4.70	10.2	117.02%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	7/24/2012	Selenium	Daily	8.20	10.4	26.83%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	8/9/2012	Selenium	Daily	8.20	10.4	26.83%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	8/20/2012	Selenium	Monthly	4.70	9.93	111.28%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	8/20/2012	Selenium	Daily	8.20	9.46	15.37%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	9/21/2012	Selenium	Monthly	4.70	6.9	46.81%	30	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	10/16/2012	Selenium	Monthly	4.70	8.145	73.30%	31	38° 13' 37"	81° 18' 40"	Hughes Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV0093912	S000684	014	10/16/2012	Selenium	Daily	8.20	8.5	3.66%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	11/9/2012	Selenium	Daily	8.20	11.5	40.24%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	11/26/2012	Selenium	Monthly	4.70	11.3	140.43%	30	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	11/26/2012	Selenium	Daily	8.20	11.1	35.37%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	12/7/2012	Selenium	Daily	8.20	12.2	48.78%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	12/17/2012	Selenium	Monthly	4.70	12.3	161.70%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	12/17/2012	Selenium	Daily	8.20	12.4	51.22%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	1/7/2013	Selenium	Daily	8.20	14.6	78.05%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	1/18/2013	Selenium	Monthly	4.70	14.9	217.02%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	1/18/2013	Selenium	Daily	8.20	15.2	85.37%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	2/7/2013	Total Selenium (981)	Daily	8.20	19.7	140.24%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	2/21/2013	Total Selenium (981)	Daily	8.20	18.6	126.83%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	2/21/2013	Total Selenium (981)	Monthly	4.70	19.15	307.45%	28	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	3/1/2013	Total Selenium (981)	Daily	8.20	15.9	93.90%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	3/14/2013	Total Selenium (981)	Daily	8.20	16.5	101.22%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	3/14/2013	Total Selenium (981)	Monthly	4.70	16.2	244.68%	31	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	4/3/2013	Total Selenium (981)	Daily	8.20	13.4	63.41%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	4/15/2013	Total Selenium (981)	Daily	8.20	15	82.93%	1	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	014	4/15/2013	Total Selenium (981)	Monthly	4.70	14.2	202.13%	30	38° 13' 37"	81° 18' 40"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	5/5/10	Selenium	Daily	8.2	14.6	78%	1	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	5/24/10	Selenium	Daily	8.2	14.3	74%	1	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	5/31/2010	Selenium	Monthly	4.7	14.45	207%	31	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	6/2/10	Selenium	Daily	8.2	12.8	56%	1	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	6/18/10	Selenium	Daily	8.2	17.5	113%	1	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	6/30/2010	Selenium	Monthly	4.7	15.15	222%	30	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	7/7/10	Selenium	Daily	8.2	9.35	14%	1	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	7/30/10	Selenium	Daily	8.2	10.6	29%	1	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	7/31/2010	Selenium	Monthly	4.7	9.975	112%	31	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	8/13/10	Selenium	Daily	8.2	14	71%	1	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	8/23/10	Selenium	Daily	8.2	12.9	57%	1	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	8/31/2010	Selenium	Monthly	4.7	13.45	186%	31	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	9/3/10	Selenium	Daily	8.2	12.7	55%	1	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	018	9/30/2010	Selenium	Monthly	4.7	10.31	119%	30	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S-5013-90	020	4/30/2008	Aluminum, Total	Monthly	0.43	0.6625	54%	30	38°13'36"	81°18'48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	Z000481	020	4/30/08	Aluminum, Total	Daily	0.75	0.885	18%	1	38°13'36"	81°18'48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	Z000481	020	4/30/2008	Aluminum, Total	Monthly	0.43	0.662	54%	30	38°13'36"	81°18'48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	1/4/11	Selenium	Daily	8.2	10.1	23%	1	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	1/31/2011	Selenium	Monthly	4.7	8.82	88%	31	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	2/2/11	Selenium	Daily	8.2	10	22%	1	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	2/16/11	Selenium	Daily	8.2	8.92	9%	1	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	2/28/2011	Selenium	Monthly	4.7	9.46	101%	28	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	3/8/11	Selenium	Daily	8.2	8.84	8%	1	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	3/16/11	Selenium	Daily	8.2	9.6	17%	1	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	3/31/2011	Selenium	Monthly	4.7	9.22	96%	31	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	4/30/2011	Selenium	Monthly	4.7	4.885	4%	30	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	11/30/2011	Selenium	Monthly	4.70	4.9	4%	30	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	12/31/2011	Selenium	Monthly	4.70	7.56	61%	31	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	030	4/15/2013	Total Selenium (981)	Monthly	4.70	5.64	20.00%	30	38° 14' 8"	81° 18' 16"	Hughes Ck
Jacks Branch Coal Co.	WV0093912		031	2/29/2012	Selenium	Monthly	4.70	6.29	34%	28	38° 14' 3"	81° 18' 20"	Hughes Creek
Jacks Branch Coal Co.	WV0093912		031	3/6/2012	Selenium	Daily	8.20	8.52	4%	1	38° 14' 3"	81° 18' 20"	Hughes Creek

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV0093912		031	3/31/2012	Selenium	Monthly	4.70	6.93	47%	31	38° 14' 3"	81° 18' 20"	Hughes Creek
Jacks Branch Coal Co.	WV0093912	S000684	035	9/1/2012	Manganese, Total	Monthly	1.8000	4.9500	175.00%	30	38° 14' 16"	81° 17' 59"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	035	9/11/2012	Manganese, Total	Daily	3.1100	4.9500	59.16%	1	38° 14' 16"	81° 17' 59"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	035	10/1/2012	Manganese, Total	Monthly	1.8000	3.8950	116.39%	31	38° 14' 16"	81° 17' 59"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	035	10/12/2012	Manganese, Total	Daily	3.1100	3.6200	16.40%	1	38° 14' 16"	81° 17' 59"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	035	10/25/2012	Manganese, Total	Daily	3.1100	4.1700	34.08%	1	38° 14' 16"	81° 17' 59"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	1/31/2011	Selenium	Monthly	4.7	4.855	3%	31	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	2/28/2011	Selenium	Monthly	4.7	4.74	1%	28	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	3/31/2011	Selenium	Monthly	4.7	5.43	16%	31	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	12/31/2011	Selenium	Monthly	4.70	6.38	36%	31	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	3/31/2012	Selenium	Monthly	4.70	6.01	28%	31	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	5/8/2012	Aluminum, Total	Daily	0.7500	0.906	21%	1	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	5/31/2012	Selenium	Monthly	4.70	5.285	12%	31	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	10/25/2012	Selenium	Monthly	4.70	5.59	18.94%	31	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	11/9/2012	Selenium	Daily	8.20	10.8	31.71%	1	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	11/26/2012	Selenium	Monthly	4.70	8.2	74.47%	30	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	12/17/2012	Selenium	Monthly	4.70	6.9	46.81%	31	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	12/17/2012	Selenium	Daily	8.20	10.1	23.17%	1	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	1/7/2013	Selenium	Daily	8.20	10.2	24.39%	1	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	1/18/2013	Selenium	Monthly	4.70	11.95	154.26%	31	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	1/18/2013	Selenium	Daily	8.20	13.7	67.07%	1	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	2/7/2013	Total Selenium (981)	Daily	8.20	13.7	67.07%	1	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	2/21/2013	Total Selenium (981)	Daily	8.20	9.54	16.34%	1	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	2/21/2013	Total Selenium (981)	Monthly	4.70	11.62	147.23%	28	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	3/14/2013	Total Selenium (981)	Daily	8.20	13.8	68.29%	1	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	3/14/2013	Total Selenium (981)	Monthly	4.70	10.225	117.55%	31	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	036	4/23/2013	Total Selenium (981)	Monthly	4.70	5.85	24.47%	30	38° 14' 13"	81° 17' 48"	Hughes Ck
Jacks Branch Coal Co.	WV0093912	S000684	041	7/21/10	Aluminum, Total	Daily	0.75	1.63	117%	1	38°14'44"	81°19'7"	Shadrick Fk
Jacks Branch Coal Co.	WV0093912	S000684	041	7/31/2010	Aluminum, Total	Monthly	0.43	0.9275	116%	31	38°14'44"	81°19'7"	Shadrick Fk
Jacks Branch Coal Co.	WV0093929	O007582	004	7/11/08	Iron, Total	Daily	5.26	6.2	18%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	6/30/2010	Selenium	Monthly	4.7	6.0566667	29%	30	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	1/17/11	Selenium	Daily	8.2	16.7	104%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	1/31/2011	Selenium	Monthly	4.7	8.802	87%	31	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	2/3/11	Selenium	Daily	8.2	12	46%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	2/28/2011	Selenium	Monthly	4.7	6.665	42%	28	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	12/3/2011	Selenium	Daily	8.20	8.66	6%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	12/31/2011	Selenium	Monthly	4.70	5.475	16%	31	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	1/31/2012	Selenium	Monthly	4.70	4.94	5%	31	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	6/6/2012	Selenium	Daily	8.20	9.7	18.29%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	6/19/2012	Selenium	Monthly	4.70	7.35	56.38%	30	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	7/25/2012	Selenium	Monthly	4.70	6.525	38.83%	31	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	8/1/2012	Selenium	Daily	8.20	9.9	20.73%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	8/13/2012	Selenium	Monthly	4.70	11.8	151.06%	31	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	8/13/2012	Selenium	Daily	8.20	13.7	67.07%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	9/13/2012	Selenium	Daily	8.20	12.8	56.10%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	9/21/2012	Selenium	Monthly	4.70	7.41	57.66%	30	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	10/16/2012	Selenium	Monthly	4.70	6.53	38.94%	31	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	11/10/2012	Selenium	Daily	8.20	8.57	4.51%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	11/29/2012	Selenium	Monthly	4.70	9.535	102.87%	30	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	11/29/2012	Selenium	Daily	8.20	10.5	28.05%	1	38°11'1"	81°20'25"	Kanawha Rv

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV0093929	O007582	004	12/12/2012	Selenium	Daily	8.20	15.4	87.80%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	12/28/2012	Selenium	Monthly	4.70	8.33	77.23%	31	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	1/19/2013	Selenium	Daily	8.20	13.7	67.07%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	1/25/2013	Selenium	Monthly	4.70	11.21	138.51%	31	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	1/25/2013	Selenium	Daily	8.20	8.72	6.34%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	2/15/2013	Total Selenium (981)	Monthly	4.70	5.52	17.45%	28	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	4/18/2013	Total Selenium (981)	Daily	8.20	10.3	25.61%	1	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	004	4/18/2013	Total Selenium (981)	Monthly	4.70	6.63	41.06%	30	38°11'1"	81°20'25"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	005	4/21/10	Selenium	Daily	8.2	8.55	4%	1	38°10'59"	81°20'30"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	005	4/30/2010	Selenium	Monthly	4.7	6.77	44%	30	38°10'59"	81°20'30"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	005	12/2/10	Total Suspended Solids	Daily	70.0000	100.0000	43%	1	38°10'59"	81°20'30"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O-0075-82	012	7/11/08	Iron, Total	Daily	5.26	7.66	46%	1	38°11'11"	81°21'3"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O-0075-82	012	12/2/09	Aluminum, Total	Daily	2.88	4.75	65%	1	38°11'11"	81°21'3"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O-0075-82	012	12/10/09	Aluminum, Total	Daily	2.88	3.37	17%	1	38°11'11"	81°21'3"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929		014	11/8/2011	Selenium	Daily	8.20	18.3	123%	1	38° 11' 15"	81° 20' 27"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	11/30/2011	Selenium	Monthly	4.70	18.3	289%	30	38° 11' 15"	81° 20' 27"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	12/1/2011	Selenium	Daily	8.20	9.03	10%	1	38° 11' 15"	81° 20' 27"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	12/31/2011	Selenium	Monthly	4.70	7.865	67%	31	38° 11' 15"	81° 20' 27"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	1/31/2012	Selenium	Monthly	4.70	5.64	20%	31	38° 11' 15"	81° 20' 27"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	3/31/2012	Selenium	Monthly	4.70	5.185	10%	31	38° 11' 15"	81° 20' 27"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	5/31/2012	Selenium	Monthly	4.70	7.105	51%	31	38° 11' 15"	81° 20' 27"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	10/3/2012	Selenium	Monthly	4.70	33.8	619.15%	31	38° 11' 15"	81° 20' 27"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	10/3/2012	Selenium	Daily	8.20	33.8	312.20%	1	38° 11' 15"	81° 20' 27"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	12/28/2012	Selenium	Monthly	4.70	16.7	255.32%	31	38° 11' 15"	81° 20' 27"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	12/28/2012	Selenium	Daily	8.20	16.7	103.66%	1	38° 11' 15"	81° 20' 27"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	2/4/2013	Total Selenium (981)	Daily	8.20	8.23	0.37%	1	38° 11' 15.0000"	81° 20' 27.0000"	Kanawha River
Jacks Branch Coal Co.	WV0093929		014	2/15/2013	Total Selenium (981)	Monthly	4.70	6.625	40.96%	28	38° 11' 15.0000"	81° 20' 27.0000"	Kanawha River
Jacks Branch Coal Co.	WV0093929	S-127-82	015	1/11/2010	Selenium	Daily	8.20	15.8	93%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	1/11/2010	Selenium	Daily	8.20	19.1	133%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	1/18/2010	Selenium	Daily	8.20	15.2	85%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	1/31/2010	Selenium	Monthly	4.7	16.7	255%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	2/3/10	Selenium	Daily	8.2	13.8	68%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	2/23/10	Selenium	Daily	8.2	21.1	157%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	2/28/2010	Selenium	Monthly	4.7	17.45	271%	28	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	3/3/10	Selenium	Daily	8.2	16.2	98%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	3/31/2010	Selenium	Monthly	4.7	16.2	245%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	4/21/10	Selenium	Daily	8.2	37.1	352%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	4/30/2010	Selenium	Monthly	4.7	37.1	689%	30	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	7/12/10	Selenium	Daily	8.2	11.8	44%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	7/31/2010	Selenium	Monthly	4.7	11.8	151%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	10/5/10	Selenium	Daily	8.2	8.48	3%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	10/20/10	Selenium	Daily	8.2	8.8	7%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	10/31/2010	Selenium	Monthly	4.7	8.64	84%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	11/8/10	Selenium	Daily	8.2	9.15	12%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	11/30/2010	Selenium	Monthly	4.7	8.13	73%	30	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	12/8/10	Selenium	Daily	8.2	18.5	126%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	12/15/10	Selenium	Daily	8.2	15.1	84%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	12/31/2010	Selenium	Monthly	4.7	16.8	257%	31	38°11'23"	81°20'22"	Kanawha Rv

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV0093929	O007582	015	1/19/11	Selenium	Daily	8.2	17.3	111%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	1/31/2011	Selenium	Monthly	4.7	17.3	268%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	2/15/11	Selenium	Daily	8.2	9.99	22%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	2/28/2011	Selenium	Monthly	4.7	8.805	87%	28	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	3/31/2011	Selenium	Monthly	4.7	6.35	35%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	4/26/11	Selenium	Daily	8.2	14.86	81%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	4/30/2011	Selenium	Monthly	4.7	10.135	116%	30	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	5/5/11	Selenium	Daily	8.2	15.3	87%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	5/13/11	Selenium	Daily	8.2	14.8	80%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	5/31/2011	Selenium	Monthly	4.7	15.05	220%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	6/1/11	Selenium	Daily	8.2	15.2	85%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	6/10/11	Selenium	Daily	8.2	17.5	113%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	015	6/30/2011	Selenium	Monthly	4.7	16.35	248%	30	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	9/1/2011	Selenium	Daily	8.20	10.9	33%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	9/30/2011	Selenium	Monthly	4.70	7.375	57%	30	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	10/14/2011	Selenium	Daily	8.20	21	156%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	10/31/2011	Selenium	Monthly	4.70	21	347%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	11/2/2011	Selenium	Daily	8.20	17.7	116%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	11/9/2011	Selenium	Daily	8.20	15.3	87%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	11/30/2011	Selenium	Monthly	4.70	16.5	251%	30	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	12/14/2011	Selenium	Daily	8.20	14.1	72%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	12/31/2011	Selenium	Monthly	4.70	10.99	134%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	1/19/2012	Selenium	Daily	8.20	10.7	30%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	1/31/2012	Selenium	Monthly	4.70	9.25	97%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	2/29/2012	Selenium	Monthly	4.70	6.835	45%	28	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	3/15/2012	Selenium	Daily	8.20	9.82	20%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	3/31/2012	Selenium	Monthly	4.70	8.785	87%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	4/19/2012	Selenium	Daily	8.20	18.4	124%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	4/30/2012	Selenium	Monthly	4.70	11.695	149%	30	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	5/10/2012	Selenium	Daily	8.20	14	71%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	5/24/2012	Selenium	Daily	8.20	13.4	63%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	015	5/31/2012	Selenium	Monthly	4.70	13.7	191%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	6/6/2012	Selenium	Daily	8.20	13.7	67.07%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	6/20/2012	Selenium	Monthly	4.70	12.35	162.77%	30	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	6/20/2012	Selenium	Daily	8.20	11	34.15%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	7/5/2012	Selenium	Daily	8.20	25	204.88%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	7/20/2012	Selenium	Monthly	4.70	30.95	558.51%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	7/20/2012	Selenium	Daily	8.20	36.9	350.00%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	8/7/2012	Selenium	Daily	8.20	12.9	57.32%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	8/16/2012	Selenium	Monthly	4.70	11.43	143.19%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	8/16/2012	Selenium	Daily	8.20	9.96	21.46%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	9/6/2012	Selenium	Daily	8.20	20.1	145.12%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	9/19/2012	Selenium	Monthly	4.70	40.25	756.38%	30	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	9/19/2012	Selenium	Daily	8.20	60.4	636.59%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	10/8/2012	Selenium	Daily	8.20	15.9	93.90%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	10/22/2012	Selenium	Monthly	4.70	15.5	229.79%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	10/22/2012	Selenium	Daily	8.20	15.1	84.15%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	11/2/2012	Selenium	Daily	8.20	26.2	219.51%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	11/12/2012	Selenium	Monthly	4.70	24.35	418.09%	30	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	11/12/2012	Selenium	Daily	8.20	22.5	174.39%	1	38°11'23"	81°20'22"	Kanawha Rv

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV0093929	S600886	015	12/5/2012	Selenium	Daily	8.20	20.2	146.34%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	12/19/2012	Selenium	Monthly	4.70	20.65	339.36%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	12/19/2012	Selenium	Daily	8.20	21.1	157.32%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	1/8/2013	Selenium	Daily	8.20	11.4	39.02%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	1/23/2013	Selenium	Monthly	4.70	12.35	162.77%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	1/23/2013	Selenium	Daily	8.20	13.3	62.20%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	2/4/2013	Total Selenium (981)	Daily	8.20	16.9	106.10%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	2/20/2013	Total Selenium (981)	Daily	8.20	18.5	125.61%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	2/20/2013	Total Selenium (981)	Monthly	4.70	17.7	276.60%	28	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	3/12/2013	Total Selenium (981)	Daily	8.20	15.4	87.80%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	3/26/2013	Total Selenium (981)	Daily	8.20	19.3	135.37%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	3/26/2013	Total Selenium (981)	Monthly	4.70	17.35	269.15%	31	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	4/3/2013	Total Selenium (981)	Daily	8.20	16.5	101.22%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	4/17/2013	Total Selenium (981)	Daily	8.20	14.1	71.95%	1	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S600886	015	4/17/2013	Total Selenium (981)	Monthly	4.70	15.3	225.53%	30	38°11'23"	81°20'22"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	S-127-82	017	10/12/2011	Selenium	Daily	8.20	96	1071%	1	38-11-48	81-20-18	Kanawha River
Jacks Branch Coal Co.	WV0093929	S-127-82	017	10/31/2011	Aluminum, Total	Monthly	0.43	0.514	20%	31	38-11-48	81-20-18	Kanawha River
Jacks Branch Coal Co.	WV0093929	S-127-82	017	10/31/2011	Selenium	Monthly	4.70	96	1943%	31	38-11-48	81-20-18	Kanawha River
Jacks Branch Coal Co.	WV0093929		040	9/30/2011	Selenium	Monthly	4.70	4.76	1%	30	38° 12' 52"	81° 20' 1"	Hughes Creek
Jacks Branch Coal Co.	WV0093929	S-88-83	041	1/18/2012	Aluminum, Total	Daily	0.7500	1.47	96%	1	38-12-45	81-20-06	Hughes Creek
Jacks Branch Coal Co.	WV0093929	O007582	401	9/12/08	Fecal Coliform	Daily	400	1180	195%	1	38°10'59"	81°20'31"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	401	8/31/09	Chlorine, Total Residual	Daily	0.028	0.1	257%	1	38°10'59"	81°20'31"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	401	10/31/2009	Nitrogen, Kjeldahl Total	Monthly	18	28	56%	31	38°10'59"	81°20'31"	Kanawha Rv
Jacks Branch Coal Co.	WV0093929	O007582	402	8/3/2012	Fecal Coliform	Daily	400.0000	1860.0000	365.00%	1	38°11'11"	81°21'3"	Kanawha Rv
Jacks Branch Coal Co.	WV0097217	S-3014-91	005	12/2/10	Aluminum, Total	Daily	0.7500	0.7910	5%	1	38° 01' 05"	81°17' 58"	Hughes Creek
Jacks Branch Coal Co.	WV0099511	S007885	001	5/4/09	Aluminum, Total	Daily	0.75	0.902	20%	1	38°12'0"	81°21'56"	Kanawha Rv
Jacks Branch Coal Co.	WV0099511	S-78-85	002	12/1/11	Aluminum, Total	Daily	0.7500	0.757	1%	1	38-12-40	81-20-54	Hughes Creek
Jacks Branch Coal Co.	WV0099511		008	3/14/11	Aluminum, Total	Daily	0.75	1.65	120%	1	38° 12' 7"	81° 21' 53"	Kanawha Rv
Jacks Branch Coal Co.	WV0099511		008	3/31/2011	Aluminum, Total	Monthly	0.43	0.692	61%	31	38° 12' 7"	81° 21' 53"	Kanawha Rv
Jacks Branch Coal Co.	WV1012452		001	10/21/2011	Selenium	Daily	8.20	23.4	185%	1	38° 13' 46"	81° 19' 2"	Hughes Creek
Jacks Branch Coal Co.	WV1012452		001	10/31/2011	Selenium	Monthly	4.70	23.4	398%	31	38° 13' 46"	81° 19' 2"	Hughes Creek
Jacks Branch Coal Co.	WV1012452	U304291	002	4/5/10	Selenium	Daily	8.2	12	46%	1	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	4/30/2010	Selenium	Monthly	4.7	8.845	88%	30	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	5/24/10	Selenium	Daily	8.2	9.48	16%	1	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	5/31/2010	Selenium	Monthly	4.7	7.92	69%	31	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	12/31/2010	Selenium	Monthly	4.7	6.97	48%	31	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	2/28/2011	Selenium	Monthly	4.7	5.825	24%	28	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	7/31/2011	Selenium	Monthly	4.70	6.02	28%	31	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	8/4/2011	Selenium	Daily	8.20	9.26	13%	1	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	8/24/2011	Selenium	Daily	8.20	17	107%	1	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	8/31/2011	Selenium	Monthly	4.70	13.13	179%	31	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	10/6/2011	Selenium	Daily	8.20	22.2	171%	1	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	10/21/2011	Selenium	Daily	8.20	13.7	67%	1	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	10/31/2011	Selenium	Monthly	4.70	17.95	282%	31	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	11/8/2011	Selenium	Daily	8.20	10.1	23%	1	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	11/18/2011	Selenium	Daily	8.20	8.58	5%	1	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	11/30/2011	Selenium	Monthly	4.70	9.34	99%	30	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	7/24/2012	Selenium	Monthly	4.70	5.19	10.43%	31	38° 13' 44"	81° 18' 49"	Hughes Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV1012452	U304291	002	8/9/2012	Selenium	Daily	8.20	19.4	136.59%	1	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	8/20/2012	Selenium	Monthly	4.70	13.655	190.53%	31	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	9/11/2012	Selenium	Daily	8.20	9.06	10.49%	1	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	9/21/2012	Selenium	Monthly	4.70	7.755	65.00%	30	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	10/16/2012	Selenium	Monthly	4.70	6.125	30.32%	31	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	10/16/2012	Selenium	Daily	8.20	8.51	3.78%	1	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	12/17/2012	Selenium	Monthly	4.70	4.745	0.96%	31	38° 13' 44"	81° 18' 49"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	2/21/2013	Total Selenium (981)	Monthly	4.70	5.135	9.26%	28	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	3/14/2013	Total Selenium (981)	Daily	8.20	9.71	18.41%	1	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	002	3/14/2013	Total Selenium (981)	Monthly	4.70	6.825	45.21%	31	38° 13' 44"	81° 19' 5"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	3/1/2010	Selenium	Daily	8.20	27.5	235%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	3/8/2010	Selenium	Daily	8.20	28.8	251%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	3/31/2010	Selenium	Monthly	4.7	28.15	499%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	4/5/10	Selenium	Daily	8.2	30.2	268%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	4/30/2010	Selenium	Monthly	4.7	30.2	543%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	7/7/10	Selenium	Daily	8.2	19.7	140%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	7/31/2010	Selenium	Monthly	4.7	19.7	319%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	9/15/10	Selenium	Daily	8.2	17.3	111%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	9/30/2010	Selenium	Monthly	4.7	17.3	268%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	10/4/10	Selenium	Daily	8.2	18.7	128%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	10/12/10	Selenium	Daily	8.2	19	132%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	10/31/2010	Selenium	Monthly	4.7	18.85	301%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	11/2/10	Selenium	Daily	8.2	15.4	88%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	11/12/10	Selenium	Daily	8.2	18.2	122%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	11/30/2010	Selenium	Monthly	4.7	16.8	257%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	12/2/10	Selenium	Daily	8.2	17.8	117%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	12/20/10	Selenium	Daily	8.2	19.7	140%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	12/31/2010	Selenium	Monthly	4.7	18.75	299%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	1/4/11	Selenium	Daily	8.2	15.5	89%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	1/20/11	Selenium	Daily	8.2	12.7	55%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	1/31/2011	Selenium	Monthly	4.7	14.1	200%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	2/2/11	Selenium	Daily	8.2	12.3	50%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	2/16/11	Selenium	Daily	8.2	15	83%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	2/28/2011	Selenium	Monthly	4.7	13.65	190%	28	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	3/8/11	Selenium	Daily	8.2	14.3	74%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	3/16/11	Selenium	Daily	8.2	12.3	50%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	3/31/2011	Selenium	Monthly	4.7	13.3	183%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	4/15/11	Selenium	Daily	8.2	15.7	91%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	4/26/11	Selenium	Daily	8.2	16	95%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	4/30/2011	Selenium	Monthly	4.7	15.85	237%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	5/6/11	Selenium	Daily	8.2	10.9	33%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	5/25/11	Selenium	Daily	8.2	19.8	141%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	5/31/2011	Selenium	Monthly	4.7	15.35	227%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	6/6/11	Selenium	Daily	8.2	16.5	101%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	6/15/11	Selenium	Daily	8.2	16.5	101%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	009	6/30/2011	Selenium	Monthly	4.7	16.5	251%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	7/15/2011	Selenium	Daily	8.20	14.3	74%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	7/25/2011	Selenium	Daily	8.20	17.4	112%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	7/31/2011	Selenium	Monthly	4.70	15.85	237%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	8/4/2011	Selenium	Daily	8.20	13.3	62%	1	38°13'30"	81°18'50"	Hughes Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	8/24/2011	Selenium	Daily	8.20	13.3	62%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	8/31/2011	Selenium	Monthly	4.70	13.3	183%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	9/14/2011	Selenium	Daily	8.20	14.1	72%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	9/22/2011	Selenium	Daily	8.20	17.3	111%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	9/30/2011	Selenium	Monthly	4.70	15.7	234%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	10/6/2011	Selenium	Daily	8.20	9.85	20%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	10/21/2011	Selenium	Daily	8.20	16.6	102%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	10/31/2011	Selenium	Monthly	4.70	13.225	181%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	11/8/2011	Selenium	Daily	8.20	15.2	85%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	11/18/2011	Selenium	Daily	8.20	15	83%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	11/30/2011	Selenium	Monthly	4.70	15.1	221%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	12/2/2011	Selenium	Daily	8.20	12.4	51%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	12/13/2011	Selenium	Daily	8.20	15	83%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	12/31/2011	Selenium	Monthly	4.70	13.7	191%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	1/3/2012	Selenium	Daily	8.20	12.4	51%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	1/17/2012	Selenium	Daily	8.20	18.3	123%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	1/31/2012	Selenium	Monthly	4.70	15.35	227%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	2/7/2012	Selenium	Daily	8.20	16.1	96%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	2/17/2012	Selenium	Daily	8.20	15.8	93%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	2/29/2012	Selenium	Monthly	4.70	15.95	239%	28	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	3/6/2012	Selenium	Daily	8.20	14.3	74%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	3/16/2012	Selenium	Daily	8.20	12.7	55%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	3/31/2012	Selenium	Monthly	4.70	13.5	187%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	4/10/2012	Selenium	Daily	8.20	15.3	87%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	4/20/2012	Selenium	Daily	8.20	16.8	105%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	4/30/2012	Selenium	Monthly	4.70	16.05	241%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	5/8/2012	Selenium	Daily	8.20	10.4	27%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	5/18/2012	Selenium	Daily	8.20	10.3	26%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	5/31/2012	Selenium	Monthly	4.70	10.35	120%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	6/14/2012	Selenium	Daily	8.20	13.6	65.85%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	6/27/2012	Selenium	Monthly	4.70	12.55	167.02%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	6/27/2012	Selenium	Daily	8.20	11.5	40.24%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	7/12/2012	Selenium	Daily	8.20	12.1	47.56%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	7/24/2012	Selenium	Monthly	4.70	13.75	192.55%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	7/24/2012	Selenium	Daily	8.20	15.4	87.80%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	8/9/2012	Selenium	Daily	8.20	10.3	25.61%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	8/20/2012	Selenium	Monthly	4.70	9.065	92.87%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	9/11/2012	Selenium	Daily	8.20	9.46	15.37%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	9/21/2012	Selenium	Monthly	4.70	10.68	127.23%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	9/21/2012	Selenium	Daily	8.20	11.9	45.12%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	10/4/2012	Selenium	Daily	8.20	13.8	68.29%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	10/16/2012	Selenium	Monthly	4.70	12.3	161.70%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	10/16/2012	Selenium	Daily	8.20	10.8	31.71%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	11/9/2012	Selenium	Daily	8.20	14.7	79.27%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	11/26/2012	Selenium	Monthly	4.70	14.25	203.19%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	11/26/2012	Selenium	Daily	8.20	13.8	68.29%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	12/7/2012	Selenium	Daily	8.20	16.3	98.78%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	12/17/2012	Selenium	Monthly	4.70	14.3	204.26%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	12/17/2012	Selenium	Daily	8.20	12.3	50.00%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	1/7/2013	Selenium	Daily	8.20	15.3	86.59%	1	38°13'30"	81°18'50"	Hughes Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	1/18/2013	Selenium	Monthly	4.70	17.3	268.09%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	1/18/2013	Selenium	Daily	8.20	19.3	135.37%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	2/7/2013	Total Selenium (981)	Daily	8.20	15.1	84.15%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	2/21/2013	Total Selenium (981)	Daily	8.20	15.8	92.68%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	2/21/2013	Total Selenium (981)	Monthly	4.70	15.45	228.72%	28	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	3/1/2013	Total Selenium (981)	Daily	8.20	15.8	92.68%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	3/14/2013	Total Selenium (981)	Daily	8.20	18	119.51%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	3/14/2013	Total Selenium (981)	Monthly	4.70	16.9	259.57%	31	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	4/3/2013	Total Selenium (981)	Daily	8.20	12.1	47.56%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	4/15/2013	Total Selenium (981)	Daily	8.20	12.7	54.88%	1	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	009	4/15/2013	Total Selenium (981)	Monthly	4.70	12.4	163.83%	30	38°13'30"	81°18'50"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	3/1/2010	Selenium	Daily	8.20	18.3	123%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	3/8/2010	Selenium	Daily	8.20	19.8	141%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	3/31/2010	Selenium	Monthly	4.7	19.05	305%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	10/4/10	Selenium	Daily	8.2	9.09	11%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	10/11/10	Selenium	Daily	8.2	8.8	7%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	10/31/2010	Selenium	Monthly	4.7	8.945	90%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	11/2/10	Selenium	Daily	8.2	9.26	13%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	11/12/10	Selenium	Daily	8.2	8.81	7%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	11/30/2010	Selenium	Monthly	4.7	9.035	92%	30	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	12/2/10	Selenium	Daily	8.2	9.85	20%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	12/20/10	Selenium	Daily	8.2	10.7	30%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	12/31/2010	Selenium	Monthly	4.7	10.275	119%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	1/4/11	Selenium	Daily	8.2	12.6	54%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	1/20/11	Selenium	Daily	8.2	10.8	32%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	1/31/2011	Selenium	Monthly	4.7	11.7	149%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	2/2/11	Selenium	Daily	8.2	13.9	70%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	2/16/11	Selenium	Daily	8.2	16.2	98%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	2/28/2011	Selenium	Monthly	4.7	15.05	220%	28	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	3/8/11	Selenium	Daily	8.2	12.5	52%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	3/16/11	Selenium	Daily	8.2	15.6	90%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	3/31/2011	Selenium	Monthly	4.7	14.05	199%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	4/15/11	Selenium	Daily	8.2	16.6	102%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	4/22/11	Selenium	Daily	8.2	16.6	102%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	4/30/2011	Selenium	Monthly	4.7	16.6	253%	30	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	5/6/11	Selenium	Daily	8.2	15.2	85%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	5/25/11	Selenium	Daily	8.2	18.1	121%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	5/31/2011	Selenium	Monthly	4.7	16.65	254%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	6/6/11	Selenium	Daily	8.2	17.2	110%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	6/15/11	Selenium	Daily	8.2	14.9	82%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U304291	011	6/30/2011	Selenium	Monthly	4.7	16.05	241%	30	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	7/15/2011	Selenium	Daily	8.20	9.83	20%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	7/25/2011	Selenium	Daily	8.20	9.82	20%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	7/31/2011	Selenium	Monthly	4.70	9.825	109%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	8/4/2011	Selenium	Daily	8.20	9.98	22%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	8/31/2011	Selenium	Monthly	4.70	8.1	72%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	9/30/2011	Selenium	Monthly	4.70	7.085	51%	30	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	10/6/2011	Selenium	Daily	8.20	11.5	40%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	10/31/2011	Selenium	Monthly	4.70	7.29	55%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	11/8/2011	Selenium	Daily	8.20	10.7	30%	1	38°13'37"	81°18'44"	Hughes Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	11/18/2011	Selenium	Daily	8.20	11.2	37%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	11/30/2011	Selenium	Monthly	4.70	10.95	133%	30	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	12/2/2011	Selenium	Daily	8.20	13.3	62%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	12/13/2011	Selenium	Daily	8.20	16	95%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	12/31/2011	Selenium	Monthly	4.70	14.65	212%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	1/3/2012	Selenium	Daily	8.20	13.6	66%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	1/17/2012	Selenium	Daily	8.20	15.2	85%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	1/31/2012	Selenium	Monthly	4.70	14.4	206%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	2/7/2012	Selenium	Daily	8.20	15.7	91%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	2/17/2012	Selenium	Daily	8.20	14.5	77%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	2/29/2012	Selenium	Monthly	4.70	15.1	221%	28	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	3/6/2012	Selenium	Daily	8.20	16.2	98%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	3/16/2012	Selenium	Daily	8.20	15.3	87%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	3/31/2012	Selenium	Monthly	4.70	15.75	235%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	4/10/2012	Selenium	Daily	8.20	16.2	98%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	4/20/2012	Selenium	Daily	8.20	15	83%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	4/30/2012	Selenium	Monthly	4.70	15.6	232%	30	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	5/8/2012	Selenium	Daily	8.20	12.5	52%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	5/18/2012	Selenium	Daily	8.20	13.4	63%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	5/31/2012	Selenium	Monthly	4.70	12.95	176%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	6/14/2012	Selenium	Daily	8.20	13.7	67.07%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	6/27/2012	Selenium	Monthly	4.70	12.4	163.83%	30	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	6/27/2012	Selenium	Daily	8.20	11.1	35.37%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	7/12/2012	Selenium	Daily	8.20	9.34	13.90%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	7/24/2012	Selenium	Monthly	4.70	9.77	107.87%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	7/24/2012	Selenium	Daily	8.20	10.2	24.39%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	8/9/2012	Selenium	Daily	8.20	9.84	20.00%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	8/20/2012	Selenium	Monthly	4.70	9.28	97.45%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	8/20/2012	Selenium	Daily	8.20	8.72	6.34%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	9/21/2012	Selenium	Monthly	4.70	6.85	45.74%	30	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	10/16/2012	Selenium	Monthly	4.70	8.045	71.17%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	10/16/2012	Selenium	Daily	8.20	8.33	1.59%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	11/9/2012	Selenium	Daily	8.20	11.7	42.68%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	11/26/2012	Selenium	Monthly	4.70	11.25	139.36%	30	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	11/26/2012	Selenium	Daily	8.20	10.8	31.71%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	12/7/2012	Selenium	Daily	8.20	12.1	47.56%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	12/17/2012	Selenium	Monthly	4.70	12.1	157.45%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	12/17/2012	Selenium	Daily	8.20	12.1	47.56%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	1/7/2013	Selenium	Daily	8.20	13.7	67.07%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	1/18/2013	Selenium	Monthly	4.70	14.3	204.26%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	1/18/2013	Selenium	Daily	8.20	14.9	81.71%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	2/7/2013	Total Selenium (981)	Daily	8.20	19.9	142.68%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	2/21/2013	Total Selenium (981)	Monthly	4.70	19.8	321.28%	28	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	2/21/2013	Total Selenium (981)	Daily	8.20	19.7	140.24%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	3/1/2013	Total Selenium (981)	Daily	8.20	16.3	98.78%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	3/14/2013	Total Selenium (981)	Daily	8.20	15.6	90.24%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	3/14/2013	Total Selenium (981)	Monthly	4.70	15.95	239.36%	31	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	4/3/2013	Total Selenium (981)	Daily	8.20	16.5	101.22%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	4/15/2013	Total Selenium (981)	Daily	8.20	14.9	81.71%	1	38°13'37"	81°18'44"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	011	4/15/2013	Total Selenium (981)	Monthly	4.70	15.7	234.04%	30	38°13'37"	81°18'44"	Hughes Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Jacks Branch Coal Co.	WV1012452	U304291	012	4/30/2010	Selenium	Monthly	4.7	6.81	45%	30	38° 13' 54"	81° 19' 27"	Shadrick Fk
Jacks Branch Coal Co.	WV1012452	U304291	012	7/31/2010	Selenium	Monthly	4.7	4.825	3%	31	38° 13' 54"	81° 19' 27"	Shadrick Fk
Jacks Branch Coal Co.	WV1012452	U304291	014	6/30/2010	Selenium	Monthly	4.7	4.975	6%	30	38° 16' 18"	81° 19' 9"	Hurricane Fk/Kelly Ck
Jacks Branch Coal Co.	WV1012452	U304291	014	7/31/2010	Selenium	Monthly	4.7	7.49	59%	31	38° 16' 18"	81° 19' 9"	Hurricane Fk/Kelly Ck
Jacks Branch Coal Co.	WV1012452	U304291	014	7/9/2012	Selenium	Daily	8.20	9.23	12.56%	1	38° 16' 18"	81° 19' 9"	Hurricane Fk/Kelly Ck
Jacks Branch Coal Co.	WV1012452	U304291	014	7/20/2012	Selenium	Monthly	4.70	6.78	44.26%	31	38° 16' 18"	81° 19' 9"	Hurricane Fk/Kelly Ck
Jacks Branch Coal Co.	WV1012452	U-3042-91	015	3/31/2010	Selenium	Monthly	4.7	6.355	35%	31	38°16'11"	81°17'0"	Bells Ck
Jacks Branch Coal Co.	WV1012452	U304291	015	4/30/2010	Selenium	Monthly	4.7	6.53	39%	30	38°16'11"	81°17'0"	Bells Ck
Jacks Branch Coal Co.	WV1012452	U304291	015	5/31/2010	Selenium	Monthly	4.7	5.995	28%	31	38°16'11"	81°17'0"	Bells Ck
Jacks Branch Coal Co.	WV1012452	U304291	015	6/30/2010	Selenium	Monthly	4.7	6.745	44%	30	38°16'11"	81°17'0"	Bells Ck
Jacks Branch Coal Co.	WV1012452		401	3/31/2010	Chlorine, Total Residual	Daily	28.00	100	257%	1	38°14'45"	81°16'59"	Hughes Ck
Jacks Branch Coal Co.	WV1012452	U-3042-94	402	6/20/08	Nitrogen, Kjeldahl Total	Daily	6	11.8	97%	1	38°16'18"	81°19'9"	Hurricane Fk/Kelly Ck
Jacks Branch Coal Co.	WV1012452	U304291	402	6/30/08	Nitrogen, Total	Daily	0.18	0.25	39%	1	38°16'18"	81°19'9"	Hurricane Fk/Kelly Ck
Jacks Branch Coal Co.	WV1012452	U-3042-94	402	7/14/10	Fecal Coliform	Daily	400	480	20%	1	38°16'18"	81°19'9"	Hurricane Fk/Kelly Ck
Jacks Branch Coal Co.	WV1012452	U-3042-94	402	9/30/10	Fecal Coliform	Daily	400	480	20%	1	38°16'18"	81°19'9"	Hurricane Fk/Kelly Ck
Jacks Branch Coal Co.	WV1019350	U-3015-00	001	3/30/10	Aluminum, Total	Daily	0.75	1.03	37%	1	38°14'12"	81°19'0"	Hughes Ck
Jacks Branch Coal Co.	WV1019350	U-3015-00	001	3/31/2010	Aluminum, Total	Monthly	0.43	0.886	106%	31	38°14'12"	81°19'0"	Hughes Ck
Jacks Branch Coal Co.	WV1019350	U-3015-00	001	3/8/11	Aluminum, Total	Daily	0.75	2.06	175%	1	38°14'12"	81°19'0"	Hughes Ck
Jacks Branch Coal Co.	WV1019350	U-3015-00	001	3/25/11	Aluminum, Total	Daily	0.75	0.962	28%	1	38°14'12"	81°19'0"	Hughes Ck
Jacks Branch Coal Co.	WV1019350	U-3015-00	001	3/31/2011	Aluminum, Total	Monthly	0.43	1.08	151%	31	38°14'12"	81°19'0"	Hughes Ck
Jacks Branch Coal Co.	WV1019350	U-3015-00	001	4/7/2011	Aluminum, Total	Daily	0.7500	0.885	18%	1	38°14'12"	81°19'0"	Hughes Ck
Jacks Branch Coal Co.	WV1019350	U-3015-00	001	12/1/2011	Aluminum, Total	Daily	0.7500	1.17	56%	1	38°14'12"	81°19'0"	Hughes Ck
Kanawha Energy Co.	WV0004421	EM-110	002	5/31/2011	Aluminum, Total	Monthly	0.43	0.63	47%	31	39° 9' 56"	80° 1' 38"	Tygart Valley Rv
Kanawha Energy Co.	WV0094226	S-6009-88	001	9/27/2011	Aluminum, Total	Daily	0.7500	3.5	367%	1	38-09-23	81-16-10	Boomer Branch
Kanawha Energy Co.	WV0094226	S-6009-88	001	9/27/2011	Total Suspended Solids	Daily	70.0000	114	63%	1	38-09-23	81-16-10	Boomer Branch
Kanawha Energy Co.	WV0094226	S-6009-88	001	9/30/2011	Aluminum, Total	Monthly	0.43	1.7797	314%	30	38-09-23	81-16-10	Boomer Branch
Kanawha Energy Co.	WV0094226	S-6009-88	001	9/30/2011	Total Suspended Solids	Monthly	35	60.5	73%	30	38-09-23	81-16-10	Boomer Branch
Kanawha Energy Co.	WV1002376	S-3045-89	012	3/8/11	Aluminum, Total	Daily	0.75	3.07	309%	1	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	012	3/14/11	Aluminum, Total	Daily	0.75	1.67	123%	1	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	012	3/28/11	Aluminum, Total	Daily	0.75	1.04	39%	1	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	012	3/31/2011	Aluminum, Total	Monthly	0.43	1.5585	262%	31	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	012	4/30/2011	Aluminum, Total	Monthly	0.43	0.5043	17%	30	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	012	9/29/2011	Aluminum, Total	Daily	0.7500	1.28	71%	1	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	012	9/30/2011	Aluminum, Total	Monthly	0.43	0.6598	53%	30	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	012	7/1/2012	Aluminum, Total	Monthly	0.4300	0.8487	97.37%	31	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	012	7/25/2012	Aluminum, Total	Daily	0.7500	1.1600	54.67%	1	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	012	7/31/2012	Aluminum, Total	Daily	0.7500	0.9570	27.60%	1	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	012	8/1/2012	Aluminum, Total	Monthly	0.4300	1.2900	200.00%	31	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	012	8/3/2012	Aluminum, Total	Daily	0.7500	1.2900	72.00%	1	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	012	12/1/2012	Aluminum, Total	Monthly	0.4300	0.7150	66.28%	31	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	012	12/27/2012	Aluminum, Total	Daily	0.7500	1.1300	50.67%	1	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	012	1/1/2013	Aluminum, Total	Monthly	0.4300	0.5265	22.44%	31	38° 12' 34"	81° 13' 41"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	012	2/7/2013	Total Aluminum (1105)	Daily	0.7500	2.0000	166.67%	1	38° 12' 34.0000"	81° 13' 41.0000"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	012	2/28/2013	Total Aluminum (1105)	Monthly	0.4300	0.7488	74.15%	28	38° 12' 34.0000"	81° 13' 41.0000"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	012	3/28/2013	Total Aluminum (1105)	Daily	0.7500	1.4400	92.00%	1	38° 12' 34.0000"	81° 13' 41.0000"	Big Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Kanawha Energy Co.	WV1002376	S304589	012	3/31/2013	Total Aluminum (1105)	Monthly	0.4300	0.9425	119.19%	31	38° 12' 34.0000"	81° 13' 41.0000"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	013	3/5/2012	Aluminum, Total	Daily	0.7500	0.944	26%	1	38-12-42	81-13-29	Big Creek
Kanawha Energy Co.	WV1002376	S-3045-89	013	3/9/2012	Aluminum, Total	Daily	0.7500	0.904	21%	1	38-12-42	81-13-29	Big Creek
Kanawha Energy Co.	WV1002376	S-3045-89	013	3/31/2012	Aluminum, Total	Monthly	0.43	0.924	115%	31	38-12-42	81-13-29	Big Creek
Kanawha Energy Co.	WV1002376	S304589	016	8/19/10	Aluminum, Total	Daily	0.75	1.85	147%	1	38°13'1"	81°13'28"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	016	8/31/10	Aluminum, Total	Daily	0.75	1.07	43%	1	38°13'1"	81°13'28"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	016	8/31/2010	Aluminum, Total	Monthly	0.43	1.1463	167%	31	38°13'1"	81°13'28"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	016	9/30/2010	Aluminum, Total	Monthly	0.43	0.741	72%	30	38°13'1"	81°13'28"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	018	12/8/10	Aluminum, Total	Daily	0.7500	1.2000	60%	1	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	018	12/20/10	Aluminum, Total	Daily	0.7500	2.0100	168%	1	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	018	12/21/10	Aluminum, Total	Daily	0.7500	1.9400	159%	1	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	018	12/31/2010	Aluminum, Total	Monthly	0.43	1.457	239%	31	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	018	1/31/2011	Aluminum, Total	Monthly	0.43	0.505	17%	31	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	018	2/28/11	Aluminum, Total	Daily	0.75	1.07	43%	1	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	018	2/28/2011	Aluminum, Total	Monthly	0.43	0.685	59%	28	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	018	8/31/2011	Aluminum, Total	Monthly	0.43	0.6263	46%	31	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	018	9/29/2011	Aluminum, Total	Daily	0.7500	0.928	24%	1	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	018	9/30/2011	Aluminum, Total	Monthly	0.43	0.521	21%	30	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	018	1/25/2012	Aluminum, Total	Daily	0.7500	0.814	9%	1	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	018	8/3/2012	Aluminum, Total	Daily	0.7500	2.3000	206.67%	1	38°13'16"	81°13'21"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	020	7/15/10	Aluminum, Total	Daily	0.75	1.91	155%	1	38°12'49"	81°13'0"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	020	7/15/10	Total Suspended Solids	Daily	70	242	246%	1	38°12'49"	81°13'0"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	020	7/15/10	Iron, Total	Daily	2.46	4.34	76%	1	38°12'49"	81°13'0"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	020	7/31/2010	Aluminum, Total	Monthly	0.43	0.8023	87%	31	38°12'49"	81°13'0"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	020	7/31/2010	Total Suspended Solids	Monthly	35	89	154%	31	38°12'49"	81°13'0"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	020	7/31/2010	Iron, Total	Monthly	1.42	1.7793	25%	31	38°12'49"	81°13'0"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	022	9/30/2010	Total Suspended Solids	Monthly	35	62	77%	30	38°12'33"	81°12'24"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	022	2/28/11	Aluminum, Total	Daily	0.75	0.828	10%	1	38°12'33"	81°12'24"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	022	2/28/2011	Aluminum, Total	Monthly	0.43	0.4448	3%	28	38°12'33"	81°12'24"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	022	9/30/2011	Aluminum, Total	Monthly	0.43	0.494	15%	30	38°12'33"	81°12'24"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	024	2/17/2012	Aluminum, Total	Daily	0.7500	0.946	26%	1	38-12-41	81-12-06	Robin HI
Kanawha Energy Co.	WV1002376	S304589	034	8/31/2010	Aluminum, Total	Monthly	0.43	0.594	38%	31	38°13'57"	81°12'14"	Big Ck
Kanawha Energy Co.	WV1002376	S304589	034	8/31/2010	Total Suspended Solids	Monthly	35	70	100%	31	38°13'57"	81°12'14"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	034	4/11/2011	Aluminum, Total	Daily	0.7500	0.998	33%	1	38°13'57"	81°12'14"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	034	4/30/2011	Aluminum, Total	Monthly	0.43	0.6693	56%	30	38°13'57"	81°12'14"	Big Ck
Kanawha Energy Co.	WV1002376	S-3045-89	038	4/30/2011	Aluminum, Total	Monthly	0.43	0.432	0.46512%	30	38° 13' 39"	81° 12' 59"	Buckles Br
Kanawha Energy Co.	WV1002376	S-3045-89	038	6/28/2011	Aluminum, Total	Daily	0.7500	2.69	259%	1	38° 13' 39"	81° 12' 59"	Buckles Br
Kanawha Energy Co.	WV1002376	S-3045-89	038	6/30/2011	Aluminum, Total	Monthly	0.43	1.626	278%	30	38° 13' 39"	81° 12' 59"	Buckles Br
Kanawha Energy Co.	WV1002376	S-3045-89	038	6/30/2011	Iron, Total	Monthly	1.42	1.5385	8%	30	38° 13' 39"	81° 12' 59"	Buckles Br
Kanawha Energy Co.	WV1002376	S-3045-89	095	1/18/2012	Aluminum, Total	Daily	0.7500	1.28	71%	1	38-14-08	81-12-42	Bells Creek
Kanawha Energy Co.	WV1015176	S-3002-96	002	9/27/2011	Aluminum, Total	Daily	0.7500	1.16	55%	1	38-11-10	81-15-49	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	006	1/25/11	Aluminum, Total	Daily	0.75	0.907	21%	1	38° 11' 16"	81° 15' 10"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	006	6/20/2011	Aluminum, Total	Daily	0.7500	1.07	43%	1	38° 11' 16"	81° 15' 10"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	006	9/27/2011	Aluminum, Total	Daily	0.7500	0.771	3%	1	38° 11' 16"	81° 15' 10"	Fourmile Fk/Smithers Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Kanawha Energy Co.	WV1015176	S-3002-96	006	11/22/2011	Aluminum, Total	Daily	0.7500	1.19	59%	1	38° 11' 16"	81° 15' 10"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	006	11/30/2011	Aluminum, Total	Monthly	0.43	0.5057	18%	30	38° 11' 16"	81° 15' 10"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	007	7/12/10	Total Suspended Solids	Daily	70	78	11%	1	38°11'42"	81°14'50"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	007	7/12/10	Aluminum, Total	Daily	0.75	1.12	49%	1	38°11'42"	81°14'50"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	007	7/31/2010	Total Suspended Solids	Monthly	35	53	51%	31	38°11'42"	81°14'50"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	007	7/31/2010	Aluminum, Total	Monthly	0.43	0.723	68%	31	38°11'42"	81°14'50"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	007	8/2/10	Aluminum, Total	Daily	0.75	0.816	9%	1	38°11'42"	81°14'50"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	007	8/31/2010	Aluminum, Total	Monthly	0.43	0.5685	32%	31	38°11'42"	81°14'50"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	007	6/30/2011	Aluminum, Total	Monthly	0.43	0.5383	25%	30	38°11'42"	81°14'50"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	007	9/27/2011	Aluminum, Total	Daily	0.7500	4.34	479%	1	38°11'42"	81°14'50"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1015176	S-3002-96	007	9/30/2011	Aluminum, Total	Monthly	0.43	1.5327	256%	30	38°11'42"	81°14'50"	Fourmile Fk/Smithers Ck
Kanawha Energy Co.	WV1019244	U302099	004	12/22/08	Iron, Total	Daily	2.76	6.79	146%	1	38°16'0"	81°22'19"	Left Fk/Kelly Ck
Kanawha Energy Co.	WV1019244	U302099	004	12/31/2008	Iron, Total	Monthly	1.59	2.322	46%	31	38°16'0"	81°22'19"	Left Fk/Kelly Ck
Kanawha Energy Co.	WV1019635	U-3010-02	401	2/4/11	Flow, in Conduit or thru plant	Daily	0.0016	0.0288	1700%	1	38° 16' 42"	81° 22' 12"	Left Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	11/30/2008	Iron, Total	Monthly	0.25	0.31	24%	30	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	12/13/08	Iron, Total	Daily	0.42	1.1	162%	1	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	12/31/2008	Iron, Total	Monthly	0.25	0.328	31%	31	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	3/27/09	Iron, Total	Daily	0.42	0.57	36%	1	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	3/31/2009	Iron, Total	Monthly	0.25	0.315	26%	31	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	7/13/09	Aluminum, Total	Daily	0.75	0.781	4%	1	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	7/31/2009	Aluminum, Total	Monthly	0.43	0.5733	33%	31	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	10/19/09	Iron, Total	Daily	0.42	0.61	45%	1	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	10/31/2009	Iron, Total	Monthly	0.25	0.345	38%	31	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	1/27/10	Iron, Total	Daily	0.42	1.02	143%	1	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	1/31/2010	Iron, Total	Monthly	0.25	0.45	80%	31	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	8/25/10	Iron, Total	Daily	0.42	0.47	12%	1	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	8/31/2010	Iron, Total	Monthly	0.25	0.29	16%	31	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	1/18/11	Iron, Total	Daily	0.42	0.44	5%	1	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	1/31/2011	Iron, Total	Monthly	0.25	0.34	36%	31	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	8/31/2011	Aluminum, Total	Monthly	0.43	0.4397	2%	31	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	10/24/2011	Iron, Total	Daily	0.4200	0.55	31%	1	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	10/31/2011	Iron, Total	Monthly	0.25	0.272	9%	31	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	003	11/21/2011	Aluminum, Total	Daily	0.7500	0.776	3%	1	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U300704	003	1/1/2013	Aluminum, Total	Monthly	0.4300	0.4548	5.77%	31	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U300704	003	1/29/2013	Aluminum, Total	Daily	0.7500	1.6000	113.33%	1	38°16'28"	81°19'35"	Hurricane Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U300704	005	9/22/08	pH	Daily	9	9.3	3%	1	38°16'47"	81°21'59"	Left Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	005	1/18/11	Iron, Total	Daily	0.42	0.47	12%	1	38°16'47"	81°21'59"	Left Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	005	1/31/2011	Iron, Total	Monthly	0.25	0.27	8%	31	38°16'47"	81°21'59"	Left Fk/Kelly Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Kanawha Energy Co.	WV1021753	U-3007-04	005	3/31/2011	Iron, Total	Monthly	0.25	0.27	8%	31	38°16'47"	81°21'59"	Left Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U-3007-04	005	12/31/2011	Iron, Total	Monthly	0.25	0.2786	11%	31	38°16'47"	81°21'59"	Left Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U300704	006	5/29/08	Iron, Total	Daily	0.42	2.09	398%	1	38°17'30"	81°20'59"	Left Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U300704	006	7/1/08	Iron, Total	Daily	0.42	1.39	231%	1	38°17'30"	81°20'59"	Left Fk/Kelly Ck
Kanawha Energy Co.	WV1021753	U300704	006	7/31/2008	Iron, Total	Monthly	0.25	1.39	456%	31	38°17'30"	81°20'59"	Left Fk/Kelly Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	6/16/10	Aluminum, Total	Daily	0.39	1.45	272%	1	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	6/16/10	Iron, Total	Daily	0.39	0.661	69%	1	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	6/30/2010	Aluminum, Total	Monthly	0.23	1.45	530%	30	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	6/30/2010	Iron, Total	Monthly	0.22	0.661	200%	30	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	3/8/11	Aluminum, Total	Daily	0.39	0.882	126%	1	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	3/8/11	Iron, Total	Daily	0.39	0.498	28%	1	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	3/31/2011	Aluminum, Total	Monthly	0.23	0.4098	78%	31	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	3/31/2011	Iron, Total	Monthly	0.22	0.2877	31%	31	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	4/11/2011	Aluminum, Total	Daily	0.3900	0.787	102%	1	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	4/11/2011	Iron, Total	Daily	0.3900	0.763	96%	1	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	4/30/2011	Iron, Total	Monthly	0.22	0.476	116%	30	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	4/30/2011	Aluminum, Total	Monthly	0.23	0.4567	99%	30	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	9/30/2011	Aluminum, Total	Monthly	0.23	0.297	29%	30	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	9/30/2011	Iron, Total	Monthly	0.22	0.294	34%	30	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	2/6/2012	Aluminum, Total	Daily	0.3900	0.675	73%	1	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	2/6/2012	Iron, Total	Daily	0.3900	0.688	76%	1	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	2/29/2012	Aluminum, Total	Monthly	0.23	0.675	193%	28	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1021991	S-3026-05	001	2/29/2012	Iron, Total	Monthly	0.22	0.688	213%	28	38°12'16"	81°15'0"	Smithers Ck
Kanawha Energy Co.	WV1022351	U-3018-07	001	12/27/10	Aluminum, Total	Daily	0.7500	1.0900	45%	1	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	12/31/2010	Aluminum, Total	Monthly	0.43	0.7675	78%	31	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	1/28/11	Aluminum, Total	Daily	0.75	1.33	77%	1	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	1/31/2011	Aluminum, Total	Monthly	0.43	0.821	91%	31	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	2/28/2011	Aluminum, Total	Monthly	0.43	0.5064	18%	28	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	3/8/11	Aluminum, Total	Daily	0.75	0.788	5%	1	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	3/14/11	Aluminum, Total	Daily	0.75	1.12	49%	1	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	3/31/2011	Aluminum, Total	Monthly	0.43	0.6063	41%	31	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	4/18/2011	Aluminum, Total	Daily	0.7500	1.45	93%	1	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	4/30/2011	Aluminum, Total	Monthly	0.43	0.8085	88%	30	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	5/24/2011	Aluminum, Total	Daily	0.7500	2.765	269%	1	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	5/31/2011	Aluminum, Total	Monthly	0.43	1.2527	191%	31	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	9/30/2011	Total Suspended Solids	Monthly	35	42	20%	30	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U-3018-07	001	3/2/2012	Aluminum, Total	Daily	0.7500	1.24	65%	1	38°8'26"	81°15'18"	Jarrett Br
Kanawha Energy Co.	WV1022351	U301807	001	12/1/2012	Aluminum, Total	Monthly	0.4300	0.4440	3.26%	31	38°8'26"	81°15'18"	Jarrett Br
Knox Creek Coal Corp.	VA80312	1300312	S-13	6/30/2009	Manganese, Total	Monthly	2	2.3	15%	30	37°07'49"	81°57'38"	Left Fork Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	001	1/31/2010	Manganese, Total	Monthly	2	2.7	35%	31	37°07'29"	81°52'31"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	001	1/31/2010	Total Suspended Solids	Monthly	35	59	69%	31	37°07'29"	81°52'31"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	001	6/17/2011	Iron, Total	Daily	6.0000	8.96	49%	1	37°07'29"	81°52'31"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	001	6/17/2011	Total Suspended Solids	Daily	70.0000	228	226%	1	37°07'29"	81°52'31"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	001	6/30/2011	Total Suspended Solids	Monthly	35	72.75	108%	30	37°07'29"	81°52'31"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	006	12/31/2009	Total Suspended Solids	Monthly	35	42.5	21%	31	37°07'16"	81°52'21"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	006	4/1/10	pH	Daily	9	9.2	2%	1	37°07'16"	81°52'21"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	007	12/1/09	Total Suspended Solids	Daily	70	82	17%	1	37°07'36"	81°52'30"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	007	12/31/2009	Total Suspended Solids	Monthly	35	55	57%	31	37°07'36"	81°52'30"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	007	4/24/2012	pH	Daily	6.0000	4.2	30%	1	37°07'36"	81°52'30"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	007	4/24/2012	Total Suspended Solids	Daily	70.0000	450	543%	1	37°07'36"	81°52'30"	Coal Creek

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Knox Creek Coal Corp.	VA80339	1300339	007	4/30/2012	Total Suspended Solids	Monthly	35	169.3333	384%	30	37°07'36"	81°52'30"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	007	1/1/2013	Total Suspended Solids	Monthly	35.0000	59.0000	68.57%	31	37°07'36"	81°52'30"	Coal Creek
Knox Creek Coal Corp.	VA80339	1300339	007	1/30/2013	Total Suspended Solids	Daily	70.0000	80.0000	14.29%	1	37°07'36"	81°52'30"	Coal Creek
Knox Creek Coal Corp.	VA80697	1400697	005A	6/30/2009	Total Suspended Solids	Monthly	35	67	91%	30	37°09'37"	81°51'29"	Mudlick Creek
Knox Creek Coal Corp.	VA81167	1401167	001	5/31/2009	Iron, Total	Monthly	3	3.1	3%	31	37°08'29"	81°55'25"	Levisa Fork
Knox Creek Coal Corp.	VA81167	1401167	001	11/1/09	Total Suspended Solids	Daily	70	115	64%	1	37°08'29"	81°55'25"	Levisa Fork
Knox Creek Coal Corp.	VA81167	1401167	001	11/30/2009	Total Suspended Solids	Monthly	35	61.5	76%	30	37°08'29"	81°55'25"	Levisa Fork
Knox Creek Coal Corp.	VA81496	1401496	006	7/5/2012	Total Suspended Solids	Daily	70.0000	87.0000	24.29%	1	37°05'03.73"	81°58'37.51"	Flatrock Creek
Knox Creek Coal Corp.	VA81547	1101752	001	3/31/2010	Total Suspended Solids	Monthly	35	47	34%	31	37°06'30"	81°58'17"	Hess Creek
Knox Creek Coal Corp.	VA81547	1701547	002	7/31/2009	Total Suspended Solids	Monthly	35	44	26%	31	37°06'16"	81°58'10"	Hess Creek
Knox Creek Coal Corp.	VA81547	1701547	002	8/31/2009	Manganese, Total	Monthly	2	2.6	30%	31	37°06'16"	81°58'10"	Hess Creek
Knox Creek Coal Corp.	VA81547	1701547	002	10/31/2009	Manganese, Total	Monthly	2	2.2	10%	31	37°06'16"	81°58'10"	Hess Creek
Knox Creek Coal Corp.	VA81547	1701547	002	10/31/2010	Manganese, Total	Monthly	2	2.5767	29%	31	37°06'16"	81°58'10"	Hess Creek
Knox Creek Coal Corp.	VA81547	1701547	003	3/30/10	Total Suspended Solids	Daily	70	72	3%	1	37°16'01"	81°58'11"	Hess Creek
Knox Creek Coal Corp.	VA81547	1701547	003	3/31/2010	Total Suspended Solids	Monthly	35	38.5	10%	31	37°16'01"	81°58'11"	Hess Creek
Knox Creek Coal Corp.	VA81752		001	3/1/10	Total Suspended Solids	Daily	70	89	27%	1	37°06'30"	81°58'17"	Hess Creek
Knox Creek Coal Corp.	VA81752		001	3/31/2010	Total Suspended Solids	Monthly	35	56	60%	31	37°06'30"	81°58'17"	Hess Creek
Knox Creek Coal Corp.	VA81752	1101752	009	5/1/09	Manganese, Total	Daily	4	6.7	68%	1	37°11'34"	81°50'40"	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	009	5/31/2009	Manganese, Total	Monthly	2	6.7	235%	31	37°11'34"	81°50'40"	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	009	6/30/2009	Total Suspended Solids	Monthly	35	39.5	13%	30	37°11'34"	81°50'40"	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	009	12/31/2009	Total Suspended Solids	Monthly	35	51.5	47%	31	37°11'34"	81°50'40"	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	009	3/31/2010	Total Suspended Solids	Monthly	35	47.5	36%	31	37°11'34"	81°50'40"	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	023	11/3/2011	Manganese, Total	Daily	4.0000	11.3	183%	1	32.54.09	81.51.19	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	023	11/30/2011	Manganese, Total	Monthly	2	3.2463	62%	30	32.54.09	81.51.19	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	023	3/20/2012	Total Suspended Solids	Daily	70.0000	78	11%	1	32.54.09	81.51.19	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	023	3/31/2012	Total Suspended Solids	Monthly	35	78	123%	31	32.54.09	81.51.19	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	030	11/15/10	Manganese, Total	Daily	4.0000	6.7200	68%	1	37°10'40"	81°50'39"	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	030	11/28/10	Manganese, Total	Daily	4.0000	4.0300	1%	1	37°10'40"	81°50'39"	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	030	11/29/10	Manganese, Total	Daily	4.0000	4.0700	2%	1	37°10'40"	81°50'39"	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	030	1/31/2012	Manganese, Total	Monthly	2	2.065	3%	31	37°10'40"	81°50'39"	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	038	4/7/2011	Iron, Total	Daily	6.0000	9.14	52%	1	37-10-56.99	81-50-14.64	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	038	4/7/2011	Total Suspended Solids	Daily	70.0000	174	149%	1	37-10-56.99	81-50-14.64	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	038	9/8/2011	Iron, Total	Daily	6.0000	12.1	102%	1	37-10-56.99	81-50-14.64	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	038	9/8/2011	Total Suspended Solids	Daily	70.0000	267	281%	1	37-10-56.99	81-50-14.64	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	038	9/13/2011	Total Suspended Solids	Daily	70.0000	118	69%	1	37-10-56.99	81-50-14.64	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	038	9/28/2011	Iron, Total	Daily	6.0000	6.47	8%	1	37-10-56.99	81-50-14.64	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	038	9/28/2011	Total Suspended Solids	Daily	70.0000	101	44%	1	37-10-56.99	81-50-14.64	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	038	9/30/2011	Iron, Total	Monthly	3	5.034	68%	30	37-10-56.99	81-50-14.64	Trace Fork
Knox Creek Coal Corp.	VA81752	1101752	038	9/30/2011	Total Suspended Solids	Monthly	35	80.5	130%	30	37-10-56.99	81-50-14.64	Trace Fork
Majestic Mining, Inc.	WV0055433	UO-676/S-87-76	002	5/22/08	pH	Daily	6	5.77	4%	1	38°24'48"	80°50'48"	Taylor Ck
Majestic Mining, Inc.	WV0055433	UO-676/S-87-76	002	5/31/2008	Aluminum, Total	Monthly	0.08	0.135	69%	31	38°24'48"	80°50'48"	Taylor Ck
Majestic Mining, Inc.	WV0055433	UO-676/S-87-76	002	12/15/10	Aluminum, Total	Daily	0.7500	0.7900	5%	1	38°24'48"	80°50'48"	Taylor Ck
Majestic Mining, Inc.	WV0055433	UO-676/S-87-76	300	4/30/08	Aluminum, Total	Daily	0.75	0.85	13%	1	38°24'26"	80°50'55"	Taylor Ck
Majestic Mining, Inc.	WV0055433	UO-676/S-87-76	300	4/30/2008	Aluminum, Total	Monthly	0.43	0.85	98%	30	38°24'26"	80°50'55"	Taylor Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Majestic Mining, Inc.	WV0055433	UO-676/S-87-76	300	12/15/10	Aluminum, Total	Daily	0.7500	0.7800	4%	1	38°24'26"	80°50'55"	Taylor Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	4/24/08	Aluminum, Total	Daily	0.14	0.2	43%	1	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	4/28/08	Aluminum, Total	Daily	0.14	0.27	93%	1	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	4/30/2008	Aluminum, Total	Monthly	0.08	0.235	194%	30	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	5/22/08	Aluminum, Total	Daily	0.14	0.19	36%	1	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	5/30/08	Aluminum, Total	Daily	0.14	0.41	193%	1	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	5/31/2008	Aluminum, Total	Monthly	0.08	0.3	275%	31	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	6/30/2008	Aluminum, Total	Monthly	0.08	0.286666	258%	30	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	11/15/08	Aluminum, Total	Daily	0.75	0.8	7%	1	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	11/30/2008	Aluminum, Total	Monthly	0.43	0.49	14%	30	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	2/28/2009	Aluminum, Total	Monthly	0.43	0.445	3%	28	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	6/26/09	Aluminum, Total	Daily	0.75	0.88	17%	1	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	6/30/2009	Aluminum, Total	Monthly	0.43	0.535	24%	30	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	6/30/2010	Manganese, Total	Monthly	1.5	1.54	3%	30	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096814	UO-657	001	12/15/10	Aluminum, Total	Daily	0.7500	0.8900	19%	1	38°25'40"	80°53'8"	Elm Ck
Majestic Mining, Inc.	WV0096822	UO-269	001	1/31/2008	Aluminum, Total	Monthly	0.08	0.1	25%	31	38°25'40"	80°53'12"	Robinson Fk
Majestic Mining, Inc.	WV0096822	UO-269	001	5/15/08	pH	Daily	6	5.37	11%	1	38°25'40"	80°53'12"	Robinson Fk
Majestic Mining, Inc.	WV0096822	UO-269	300	3/20/08	pH	Daily	6	5.81	3%	1	38°25'40"	80°53'9"	Robinson Ck
Majestic Mining, Inc.	WV0096822	UO-269	300	4/21/08	pH	Daily	6	5.84	3%	1	38°25'40"	80°53'9"	Robinson Ck
Majestic Mining, Inc.	WV0096822	UO-269	300	5/15/08	pH	Daily	6	5.7	5%	1	38°25'40"	80°53'9"	Robinson Ck
Majestic Mining, Inc.	WV0096831	UO-458	004	1/31/2009	Aluminum, Total	Monthly	0.75	0.99	32%	31	38°25'3"	80°51'21"	Taylor Creek
Majestic Mining, Inc.	WV0096831	UO-458	004	1/31/2010	Aluminum, Total	Monthly	0.78	0.8533	9%	31	38°25'3"	80°51'21"	Taylor Creek
Majestic Mining, Inc.	WV0096831	UO-458	004	2/28/2010	Aluminum, Total	Monthly	0.78	0.9778	25%	28	38°25'3"	80°51'21"	Taylor Creek
Majestic Mining, Inc.	WV0096831	UO-458	004	12/15/10	Aluminum, Total	Daily	1.3500	1.6500	22%	1	38°25'3"	80°51'21"	Taylor Creek
Majestic Mining, Inc.	WV0096831	UO-458	301	7/31/2008	Aluminum, Total	Monthly	0.78	0.94	21%	31	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	1/31/09	Aluminum, Total	Daily	1.35	3.92	190%	1	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	1/31/2009	Aluminum, Total	Monthly	0.78	2.405	208%	31	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	2/28/2009	Aluminum, Total	Monthly	0.78	0.865	11%	28	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	3/31/09	Aluminum, Total	Daily	1.35	2.66	97%	1	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	3/31/2009	Aluminum, Total	Monthly	0.78	1.69	117%	31	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	4/30/09	Aluminum, Total	Daily	1.35	2.56	90%	1	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	4/30/2009	Aluminum, Total	Monthly	0.78	1.77	127%	30	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	5/31/09	Aluminum, Total	Daily	1.35	1.45	7%	1	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	5/31/2009	Aluminum, Total	Monthly	0.78	1.14	46%	31	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	8/14/09	Aluminum, Total	Daily	1.35	1.78	32%	1	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	12/11/09	Aluminum, Total	Daily	1.35	1.6	19%	1	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	12/31/2009	Aluminum, Total	Monthly	0.78	0.9533	22%	31	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	UO-458	301	12/15/10	Aluminum, Total	Daily	1.3500	1.4000	4%	1	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096831	U045800	301	11/23/2012	Aluminum, Total	Daily	1.3500	1.6800	24.44%	1	38°25'9"	80°51'22"	Taylor Ck
Majestic Mining, Inc.	WV0096865	O-109-83	001	2/9/08	pH	Daily	6	4.71	22%	1	38° 26' 10"	80° 53' 19"	Elm Ck
Marfork Coal Co.	WV1013301	U-5003-93	001	7/31/2008	Aluminum, Total	Monthly	0.43	0.445	3%	31	37°56'31"	81°30'37"	Coon HI
Marfork Coal Co.	WV1013301	U-5003-93	001	3/22/10	Aluminum, Total	Daily	0.75	1.06	41%	1	37°56'31"	81°30'37"	Coon HI
Marfork Coal Co.	WV1013301	U-5003-93	001	4/7/10	Aluminum, Total	Daily	0.75	0.95	27%	1	37°56'31"	81°30'37"	Coon HI
Marfork Coal Co.	WV1013301	U-5003-93	001	4/15/10	Aluminum, Total	Daily	0.75	0.93	24%	1	37°56'31"	81°30'37"	Coon HI
Marfork Coal Co.	WV1013301	U-5003-93	001	4/22/10	Aluminum, Total	Daily	0.75	1.09	45%	1	37°56'31"	81°30'37"	Coon HI
Marfork Coal Co.	WV1013301	U-5003-93	001	7/15/10	Aluminum, Total	Daily	0.75	0.91	21%	1	37°56'31"	81°30'37"	Coon HI
Marfork Coal Co.	WV1013301	U-5003-93	001	7/31/2010	Aluminum, Total	Monthly	0.43	0.4843	13%	31	37°56'31"	81°30'37"	Coon HI
Marfork Coal Co.	WV1013301	U-5003-93	002	7/31/08	Total Suspended Solids	Daily	70	84	20%	1	37°55'2"	81°30'58"	Birch Fork/Little Marsh Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Marfork Coal Co.	WV1013301	U-5003-93	002	7/31/2008	Total Suspended Solids	Monthly	35	49	40%	31	37°55'2"	81°30'58"	Birch Fork/Little Marsh Fork
Marfork Coal Co.	WV1013301	U-5003-93	002	5/6/09	Aluminum, Total	Daily	0.75	1.03	37%	1	37°55'2"	81°30'58"	Birch Fork/Little Marsh Fork
Marfork Coal Co.	WV1013301	U-5001-93	006	2/28/2008	Aluminum, Total	Monthly	0.43	0.5	16%	28	37°56'18"	81°32'15"	Marsh Fk
Marfork Coal Co.	WV1013301	U-5001-93	006	7/16/08	Total Suspended Solids	Daily	70	84	20%	1	37°56'18"	81°32'15"	Marsh Fk
Marfork Coal Co.	WV1013301	U-5001-93	006	7/31/2008	Total Suspended Solids	Monthly	35	84	140%	31	37°56'18"	81°32'15"	Marsh Fk
Marfork Coal Co.	WV1013301	U-5001-93	006	4/15/10	Aluminum, Total	Daily	0.75	1.03	37%	1	37°56'18"	81°32'15"	Marsh Fk
Marfork Coal Co.	WV1013301	U-5001-93	006	4/30/2010	Aluminum, Total	Monthly	0.43	0.61	42%	30	37°56'18"	81°32'15"	Marsh Fk
Marfork Coal Co.	WV1013301	U-5001-93	013	2/4/08	Aluminum, Total	Daily	0.75	1.05	40%	1	37° 56' 25"	81° 32' 6"	Marsh Fk
Marfork Coal Co.	WV1013301	U-5001-93	013	2/28/2008	Aluminum, Total	Monthly	0.43	1.05	144%	28	37° 56' 25"	81° 32' 6"	Marsh Fk
Marfork Coal Co.	WV1013301	U-5001-93	013	2/28/2008	Total Suspended Solids	Monthly	35	37	6%	28	37° 56' 25"	81° 32' 6"	Marsh Fk
Marfork Coal Co.	WV1013301	U-5001-93	014	2/26/09	Total Suspended Solids	Daily	70	87	24%	1	37°55'36"	81°27'33"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-5001-93	014	2/26/09	Aluminum, Total	Daily	0.75	0.91	21%	1	37°55'36"	81°27'33"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-5001-93	014	1/16/10	Iron, Total	Daily	2.63	3.44	31%	1	37°55'36"	81°27'33"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-5001-93	014	4/9/10	Aluminum, Total	Daily	0.75	0.86	15%	1	37°55'36"	81°27'33"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-5001-93	014	5/11/10	Aluminum, Total	Daily	0.75	0.93	24%	1	37°55'36"	81°27'33"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	030	1/31/2008	Manganese, Total	Monthly	0.28	0.92	229%	31	37°55'17"	81°27'29"	Slip Ridge Br
Marfork Coal Co.	WV1013301	U-3021-00	030	3/10/08	Manganese, Total	Daily	0.49	0.55	12%	1	37°55'17"	81°27'29"	Slip Ridge Br
Marfork Coal Co.	WV1013301	U-3021-00	030	3/31/2008	Manganese, Total	Monthly	0.28	0.55	96%	31	37°55'17"	81°27'29"	Slip Ridge Br
Marfork Coal Co.	WV1013301	U-3021-00	030	7/31/2008	Aluminum, Total	Monthly	0.43	0.68	58%	31	37°55'17"	81°27'29"	Slip Ridge Br
Marfork Coal Co.	WV1013301	U-3021-00	030	2/11/10	Aluminum, Total	Daily	0.75	0.85	13%	1	37°55'17"	81°27'29"	Slip Ridge Br
Marfork Coal Co.	WV1013301	U-3021-00	030	4/30/2011	Aluminum, Total	Monthly	0.43	0.62	44%	30	37°55'17"	81°27'29"	Slip Ridge Br
Marfork Coal Co.	WV1013301	U-3021-00	037	8/25/08	pH	Daily	6	4.57	24%	1	37°55'44"	81°28'49"	Little Marsh Fork
Marfork Coal Co.	WV1013301	U-3021-00	037	9/5/08	pH	Daily	6	4.68	22%	1	37°55'44"	81°28'49"	Little Marsh Fork
Marfork Coal Co.	WV1013301	U-3021-00	037	10/16/08	pH	Daily	9	9.8	9%	1	37°55'44"	81°28'49"	Little Marsh Fork
Marfork Coal Co.	WV1013301	U-3021-00	037	5/24/2011	Aluminum, Total	Daily	0.7500	0.86	15%	1	37°55'44"	81°28'49"	Little Marsh Fork
Marfork Coal Co.	WV1013301	U-3021-00	037	5/31/2011	Aluminum, Total	Monthly	0.43	0.4633	8%	31	37°55'44"	81°28'49"	Little Marsh Fork
Marfork Coal Co.	WV1013301	U-3021-00	037	6/27/2011	Aluminum, Total	Daily	0.7500	1.2	60%	1	37°55'44"	81°28'49"	Little Marsh Fork
Marfork Coal Co.	WV1013301	U-3021-00	037	6/30/2011	Aluminum, Total	Monthly	0.43	0.625	45%	30	37°55'44"	81°28'49"	Little Marsh Fork
Marfork Coal Co.	WV1013301	U-5001-93	401	12/8/09	Chlorine, Total Residual	Daily	28	30	7%	1	37°56'31"	81°30'37"	Coon HI
Marfork Coal Co.	WV1013301	U-3013-99	403	12/15/09	Chlorine, Total Residual	Daily	28	30	7%	1	37°55'36"	81°27'33"	Slip Ridge Br
Marfork Coal Co.	WV1013301	U-3013-99	403	3/31/2010	BOD, 5-Day 20 Deg.C	Monthly	5	5.6	12%	31	37°55'36"	81°27'33"	Slip Ridge Br
Marfork Coal Co.	WV1013301	U302100	403	8/1/2012	BOD	Monthly	5.0000	5.3900	7.80%	31	37°55'36"	81°27'33"	Slip Ridge Br
Marfork Coal Co.	WV1013301	U-3021-00	404	12/31/2008	BOD, 5-Day 20 Deg.C	Monthly	0.03	0.06	100%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	12/31/2008	BOD, 5-Day 20 Deg.C	Monthly	5	5.73	15%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	12/31/08	Flow, in Conduit or thru plant	Daily	0.0007	0.001	43%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/09	Ammonia Nitrogen	Daily	0.04	0.05	25%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/2009	Ammonia Nitrogen	Monthly	0.02	0.05	150%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/2009	Ammonia Nitrogen	Monthly	3	3.86	29%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/09	BOD, 5-Day 20 Deg.C	Daily	0.06	0.08	33%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/2009	BOD, 5-Day 20 Deg.C	Monthly	0.03	0.08	167%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/2009	BOD, 5-Day 20 Deg.C	Monthly	5	6.7	34%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/09	Flow, in Conduit or thru plant	Daily	0.0007	0.001	43%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/09	Total Suspended Solids	Daily	60	81	35%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/2009	Total Suspended Solids	Monthly	30	81	170%	31	37°55'17"	81°27'29"	Slip Ridge Branch

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/09	Total Suspended Solids	Daily	0.36	0.97	169%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/2009	Total Suspended Solids	Monthly	0.18	0.97	439%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	9/30/09	BOD, 5-Day 20 Deg.C	Daily	0.06	0.12	100%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	9/30/2009	BOD, 5-Day 20 Deg.C	Monthly	0.03	0.117218	291%	30	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	9/30/2009	BOD, 5-Day 20 Deg.C	Monthly	5	9.76	95%	30	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	9/30/09	Chlorine, Total Residual	Daily	0.028	0.04	43%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	9/30/09	Flow, in Conduit or thru plant	Daily	0.0007	0.001	43%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	9/30/2009	Total Suspended Solids	Monthly	0.18	0.19216	7%	30	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	12/15/09	Chlorine, Total Residual	Daily	28	40	43%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	12/31/2009	BOD, 5-Day 20 Deg.C	Monthly	0.03	0.040474	35%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	12/31/09	Flow, in Conduit or thru plant	Daily	0.0007	0.001	43%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	12/31/2009	Total Suspended Solids	Monthly	0.18	0.2402	33%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/2010	BOD, 5-Day 20 Deg.C	Monthly	0.03	0.058849	96%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/10	Flow, in Conduit or thru plant	Daily	0.0007	0.001	43%	1	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	3/31/2010	Total Suspended Solids	Monthly	0.18	0.28824	60%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U-3021-00	404	2/28/2011	Total Suspended Solids	Monthly	30	55	83%	28	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U302100	404	8/1/2012	BOD	Monthly	0.0300	0.0302	0.67%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1013301	U302100	404	8/1/2012	BOD	Monthly	5.0000	5.1700	3.40%	31	37°55'17"	81°27'29"	Slip Ridge Branch
Marfork Coal Co.	WV1014528		016	7/23/08	Total Suspended Solids	Daily	70	92	31%	1	37°56'8"	81°31'33"	Birch Fork/Little Marsh Fork
Marfork Coal Co.	WV1014528		016	7/31/2008	Total Suspended Solids	Monthly	35	92	163%	31	37°56'8"	81°31'33"	Birch Fork/Little Marsh Fork
Marfork Coal Co.	WV1014528		016	7/31/2008	Manganese, Total	Monthly	0.14	0.19	36%	31	37°56'8"	81°31'33"	Birch Fork/Little Marsh Fork
Marfork Coal Co.	WV1014633	O-3024-93	006	7/31/2008	Aluminum, Total	Monthly	0.43	0.46	7%	31	37°56'41"	81°30'27"	Coon HI
Marfork Coal Co.	WV1014633	O-3024-93	006	3/22/10	Aluminum, Total	Daily	0.75	1.04	39%	1	37°56'41"	81°30'27"	Coon HI
Marfork Coal Co.	WV1014633	O-3024-93	006	4/7/10	Aluminum, Total	Daily	0.75	0.96	28%	1	37°56'41"	81°30'27"	Coon HI
Marfork Coal Co.	WV1014633	O-3024-93	006	4/16/10	Aluminum, Total	Daily	0.75	0.88	17%	1	37°56'41"	81°30'27"	Coon HI
Marfork Coal Co.	WV1014633	O-3024-93	006	4/22/10	Aluminum, Total	Daily	0.75	1.09	45%	1	37°56'41"	81°30'27"	Coon HI
Marfork Coal Co.	WV1014633	O-3024-93	006	4/30/2010	Aluminum, Total	Monthly	0.43	0.4456	4%	30	37°56'41"	81°30'27"	Coon HI
Marfork Coal Co.	WV1014633	O-3024-93	016	3/3/10	Aluminum, Total	Daily	0.75	1.27	69%	1	37°56'8"	81°30'20"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	5/19/08	Aluminum, Total	Daily	0.75	10.54	1305%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	5/19/08	Iron, Total	Daily	2.46	17.1	595%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	5/19/08	pH	Daily	6	2.83	53%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	5/31/2008	Aluminum, Total	Monthly	0.43	5.36	1147%	31	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	5/31/2008	Iron, Total	Monthly	1.42	8.79	519%	31	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	7/31/08	pH	Daily	9	10.71	19%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	3/3/10	Aluminum, Total	Daily	0.75	2.5	233%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	3/12/10	Aluminum, Total	Daily	0.75	2.12	183%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	3/15/10	Aluminum, Total	Daily	0.75	1.15	53%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	3/23/10	Aluminum, Total	Daily	0.75	1.64	119%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	3/31/2010	Aluminum, Total	Monthly	0.43	0.8208	91%	31	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	4/22/10	Aluminum, Total	Daily	0.75	1.21	61%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	4/30/10	Aluminum, Total	Daily	0.75	1.81	141%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O-3024-93	018	4/30/2010	Aluminum, Total	Monthly	0.43	0.64	49%	30	37°56'59"	81°31'32"	Little Marsh Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Marfork Coal Co.	WV1014633	O302493	018	9/7/2012	Iron, Total	Daily	2.4600	4.9700	102.03%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014633	O302493	018	9/7/2012	Aluminum, Total	Daily	1.1300	3.0100	166.37%	1	37°56'59"	81°31'32"	Little Marsh Fk
Marfork Coal Co.	WV1014781	O-3005-94	001	2/7/08	Aluminum, Total	Daily	0.75	1.11	48%	1	37°56'27"	81°30'3"	Low Gap Br/Little Marsh Fk
Marfork Coal Co.	WV1014781	O-3005-94	001	2/28/2008	Aluminum, Total	Monthly	0.43	0.675	57%	28	37°56'27"	81°30'3"	Low Gap Br/Little Marsh Fk
Marfork Coal Co.	WV1014781	O-3005-94	001	5/31/2008	Aluminum, Total	Monthly	0.43	0.56	30%	31	37°56'27"	81°30'3"	Low Gap Br/Little Marsh Fk
Marfork Coal Co.	WV1014781	O-3005-94	401	3/18/08	Chlorine, Total Residual	Daily	28	90	221%	1	37°56'38"	81°29'50"	Low Gap Branch/Little Marsh Fork
Marfork Coal Co.	WV1014781	O-3005-94	401	9/30/09	BOD, 5-Day 20 Deg.C	Daily	0.08	0.0800	0.0000%	1	37°56'38"	81°29'50"	Low Gap Branch/Little Marsh Fork
Marfork Coal Co.	WV1014781	O-3005-94	401	9/30/09	Chlorine, Total Residual	Daily	0.028	0.04	43%	1	37°56'38"	81°29'50"	Low Gap Branch/Little Marsh Fork
Marfork Coal Co.	WV1014781	O-3005-94	401	12/15/09	Chlorine, Total Residual	Daily	28	40	43%	1	37°56'38"	81°29'50"	Low Gap Branch/Little Marsh Fork
Marfork Coal Co.	WV1014781	O-3005-94	401	3/31/10	BOD, 5-Day 20 Deg.C	Daily	0.08	0.0858686	7%	1	37°56'38"	81°29'50"	Low Gap Branch/Little Marsh Fork
Marfork Coal Co.	WV1014838	U301394	003	9/30/2010	Iron, Total	Monthly	1.42	2.1	48%	30	37°56'15"	81°29'15"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	008	2/3/10	pH	Daily	6	3.35	44%	1	37°55'23"	81°27'25"	Slip Ridge Br
Marfork Coal Co.	WV1014838	U-3013-94	008	2/3/10	Aluminum, Total	Daily	0.75	6.56	775%	1	37°55'23"	81°27'25"	Slip Ridge Br
Marfork Coal Co.	WV1014838	U-3013-94	008	2/28/2010	Aluminum, Total	Monthly	0.43	6.56	1426%	28	37°55'23"	81°27'25"	Slip Ridge Br
Marfork Coal Co.	WV1014838	U-3013-94	010	2/2/10	pH	Daily	6	3.55	41%	1	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	010	2/2/10	Aluminum, Total	Daily	0.75	10.86	1348%	1	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	010	2/2/10	Manganese, Total	Daily	1.73	2.05	18%	1	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	010	2/28/2010	Aluminum, Total	Monthly	0.43	10.86	2426%	28	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	010	3/31/2010	Aluminum, Total	Monthly	0.43	0.49	14%	31	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	010	5/11/10	Aluminum, Total	Daily	0.75	2.08	177%	1	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	010	5/11/10	Manganese, Total	Daily	1.73	1.97	14%	1	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	010	5/31/2010	Aluminum, Total	Monthly	0.43	1.13	163%	31	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	010	5/3/2011	Aluminum, Total	Daily	0.7500	0.89	19%	1	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	010	5/31/2011	Aluminum, Total	Monthly	0.43	0.89	107%	31	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	010	5/3/2012	Aluminum, Total	Daily	0.7500	0.87	16%	1	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U-3013-94	010	5/31/2012	Aluminum, Total	Monthly	0.43	0.87	102%	31	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U301394	010	1/1/2013	Manganese, Total	Monthly	1.0000	1.1600	16.00%	31	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U301394	010	1/1/2013	Aluminum, Total	Monthly	0.4300	1.0800	151.16%	31	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U301394	010	1/27/2013	Aluminum, Total	Daily	0.7500	1.5800	110.67%	1	37°55'43"	81°27'33"	Little Marsh Fk
Marfork Coal Co.	WV1014838	U301394	010	4/30/2013	Total Aluminum (1105)	Monthly	0.4300	0.6500	51.16%	30	37°55'43"	81°27'33"	Slip Ridge Branch
Marfork Coal Co.	WV1015044	O-3010-95	001	4/23/08	Aluminum, Total	Daily	0.14	0.26	86%	1	37°55'31"	81°29'18"	Brushy Fk/Little Marsh Fk
Marfork Coal Co.	WV1015044	O-3010-95	001	4/30/08	Aluminum, Total	Daily	0.14	0.28	100%	1	37°55'31"	81°29'18"	Brushy Fk/Little Marsh Fk
Marfork Coal Co.	WV1015044	O-3010-95	001	4/30/2008	Aluminum, Total	Monthly	0.08	0.27	238%	30	37°55'31"	81°29'18"	Brushy Fk/Little Marsh Fk
Marfork Coal Co.	WV1015044	O-3010-95	001	5/21/08	Aluminum, Total	Daily	0.14	0.56	300%	1	37°55'31"	81°29'18"	Brushy Fk/Little Marsh Fk
Marfork Coal Co.	WV1015044	O-3010-95	001	5/31/2008	Aluminum, Total	Monthly	0.08	0.655	719%	31	37°55'31"	81°29'18"	Brushy Fk/Little Marsh Fk
Marfork Coal Co.	WV1015044	O-3010-95	001	6/30/2008	Aluminum, Total	Monthly	0.43	0.46	7%	30	37°55'31"	81°29'18"	Brushy Fk/Little Marsh Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Marfork Coal Co.	WV1015044	O-3010-95	001	7/31/2008	Aluminum, Total	Monthly	0.43	0.625	45%	31	37°55'31"	81°29'18"	Brushy Fk/Little Marsh Fk
Marfork Coal Co.	WV1015044	O-3010-95	001	2/22/2012	Aluminum, Total	Daily	1.6700	1.8	8%	1	37°55'31"	81°29'18"	Brushy Fk/Little Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	2/1/08	Aluminum, Total	Daily	1.64	2.11	29%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	2/28/2008	Aluminum, Total	Monthly	0.95	1.15	21%	28	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	4/4/08	Aluminum, Total	Daily	1.64	1.86	13%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	4/4/08	Total Suspended Solids	Daily	70	347	396%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	4/30/2008	Aluminum, Total	Monthly	0.95	1.255	32%	30	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	4/30/2008	Total Suspended Solids	Monthly	35	204.5	484%	30	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	5/1/08	Aluminum, Total	Daily	1.64	23.5	1333%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	5/1/08	Total Suspended Solids	Daily	70	242	246%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	5/16/08	Aluminum, Total	Daily	1.64	2.94	79%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	5/16/08	Total Suspended Solids	Daily	70	262	274%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	5/31/2008	Aluminum, Total	Monthly	0.95	13.22	1292%	31	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	5/31/2008	Total Suspended Solids	Monthly	35	252	620%	31	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	6/2/08	Aluminum, Total	Daily	1.64	31.2	1802%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	6/2/08	Total Suspended Solids	Daily	70	179	156%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	6/30/2008	Aluminum, Total	Monthly	0.95	31.2	3184%	30	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	6/30/2008	Total Suspended Solids	Monthly	35	179	411%	30	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	2/20/09	pH	Daily	6	3.81	37%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	2/20/09	Aluminum, Total	Daily	1.64	2.96	80%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	2/28/2009	Aluminum, Total	Monthly	0.95	2.96	212%	28	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	3/11/09	Aluminum, Total	Daily	1.64	2.04	24%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	3/16/09	pH	Daily	6	3.84	36%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	3/16/09	Aluminum, Total	Daily	1.64	2.4	46%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	3/27/09	pH	Daily	9	9.3	3%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	3/31/2009	Aluminum, Total	Monthly	0.95	1.4525	53%	31	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	4/13/09	Aluminum, Total	Daily	1.64	2.54	55%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	4/16/09	pH	Daily	6	4.3	28%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	4/16/09	Aluminum, Total	Daily	1.64	1.74	6%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	4/24/09	pH	Daily	6	5.1	15%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	4/30/2009	Aluminum, Total	Monthly	0.95	1.7967	89%	30	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	8/14/09	Iron, Total	Daily	0.82	0.89	9%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	8/31/2009	Iron, Total	Monthly	0.47	0.73	55%	31	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	004	12/30/09	Iron, Total	Daily	0.82	1.05	28%	1	37°53'57"	81°26'51"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	005	3/16/09	Iron, Total	Daily	0.82	1.67	104%	1	37°53'41"	81°27'16"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	005	3/27/09	Iron, Total	Daily	0.82	2.4	193%	1	37°53'41"	81°27'16"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	005	3/31/2009	Iron, Total	Monthly	0.47	1.3767	193%	31	37°53'41"	81°27'16"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	005	4/13/09	Iron, Total	Daily	0.82	7.32	793%	1	37°53'41"	81°27'16"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	005	4/16/09	Iron, Total	Daily	0.82	1.4	71%	1	37°53'41"	81°27'16"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	005	4/24/09	Iron, Total	Daily	0.82	0.87	6%	1	37°53'41"	81°27'16"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	005	4/30/2009	Iron, Total	Monthly	0.47	2.4925	430%	30	37°53'41"	81°27'16"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	005	5/15/09	Iron, Total	Daily	0.82	1.06	29%	1	37°53'41"	81°27'16"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	005	5/29/09	Iron, Total	Daily	0.82	1.05	28%	1	37°53'41"	81°27'16"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	005	5/31/2009	Iron, Total	Monthly	0.47	1.055	124%	31	37°53'41"	81°27'16"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	005	6/30/2009	Iron, Total	Monthly	0.47	0.71	51%	30	37°53'41"	81°27'16"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	006	4/16/09	Aluminum, Total	Daily	1.64	1.89	15%	1	37°53'32"	81°27'20"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	006	4/16/09	Iron, Total	Daily	0.82	1.61	96%	1	37°53'32"	81°27'20"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	006	4/30/2009	Aluminum, Total	Monthly	0.95	1.89	99%	30	37°53'32"	81°27'20"	Horse Ck/Marsh Fk

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Marfork Coal Co.	WV1021729	U-3001-04	006	4/30/2009	Iron, Total	Monthly	0.47	1.61	243%	30	37°53'32"	81°27'20"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	008	4/15/10	Aluminum, Total	Daily	1.64	1.82	11%	1	37°53'7"	81°27'57"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	008	4/23/10	Aluminum, Total	Daily	1.64	5.39	229%	1	37°53'7"	81°27'57"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	008	4/23/10	Iron, Total	Daily	0.82	2.75	235%	1	37°53'7"	81°27'57"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	008	4/30/2010	Aluminum, Total	Monthly	0.95	3.605	279%	30	37°53'7"	81°27'57"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	008	4/30/2010	Iron, Total	Monthly	0.47	0.806	71%	30	37°53'7"	81°27'57"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	008	5/31/2010	Iron, Total	Monthly	0.47	0.78	66%	31	37°53'7"	81°27'57"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	4/24/09	Aluminum, Total	Daily	1.64	2.16	32%	1	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	4/24/09	Iron, Total	Daily	0.82	1.09	33%	1	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	4/30/2009	Aluminum, Total	Monthly	0.95	2.16	127%	30	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	4/30/2009	Iron, Total	Monthly	0.47	1.09	132%	30	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	5/15/09	Iron, Total	Daily	0.82	1.54	88%	1	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	5/29/09	Iron, Total	Daily	0.82	1.22	49%	1	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	5/31/2009	Iron, Total	Monthly	0.47	1.38	194%	31	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	6/10/09	Iron, Total	Daily	0.82	0.91	11%	1	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	6/25/09	Iron, Total	Daily	0.82	1.28	56%	1	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	6/30/2009	Iron, Total	Monthly	0.47	1.095	133%	30	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	7/2/09	Iron, Total	Daily	0.82	1.24	51%	1	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	014	7/31/2009	Iron, Total	Monthly	0.47	1.24	164%	31	37°53'28"	81°27'12"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	10/31/2009	Iron, Total	Monthly	0.47	0.81	72%	31	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	11/12/09	Iron, Total	Daily	0.82	8.33	916%	1	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	11/30/2009	Iron, Total	Monthly	0.47	8.33	1672%	30	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	4/15/10	Iron, Total	Daily	0.82	0.9	10%	1	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	4/23/10	Iron, Total	Daily	0.82	1.31	60%	1	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	4/30/2010	Iron, Total	Monthly	0.47	0.495	5%	30	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	5/31/2010	Iron, Total	Monthly	0.47	0.5	6%	31	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	3/3/11	Iron, Total	Daily	0.82	1.21	48%	1	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	3/31/2011	Iron, Total	Monthly	0.47	0.96	104%	31	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	5/24/2011	Iron, Total	Daily	0.8200	1.8	120%	1	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	5/31/2011	Iron, Total	Monthly	0.47	0.6268	33%	31	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	7/25/2011	Iron, Total	Daily	0.8200	1.32	61%	1	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	11/30/2011	Iron, Total	Monthly	0.47	0.7	49%	30	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	12/28/11	Iron, Total	Daily	0.8200	1.75	113%	1	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U-3001-04	019	12/31/2011	Iron, Total	Monthly	0.47	1.02	117%	31	37°53'13"	81°27'37"	Horse Ck/Marsh Fk
Marfork Coal Co.	WV1021729	U300104	019	3/5/2013	Total Iron (1045)	Daily	0.8200	1.5300	86.59%	1	37°53'13"	81°21'43"	Workman Ck/Clear Fk
Marfork Coal Co.	WV1021788	S301004	039	1/15/2013	Aluminum, Total	Daily	0.7500	0.7800	4.00%	1	37° 55' 9"	81° 27' 55"	Beetree Br
Marfork Coal Co.	WV1021788	S301004	039	2/11/2013	Total Aluminum (1105)	Daily	0.7500	0.8200	9.33%	1	37° 55' 9.0000"	81° 27' 55.0000"	Beetree Br
Marfork Coal Co.	WV1024337	S300809	004	6/30/2011	Manganese, Total	Monthly	1	2.64	164%	30	37° 55' 46"	81° 27' 39"	Little Marsh Fk
Marfork Coal Co.	WV1024337	S300809	004	6/30/2011	Iron, Total	Monthly	0.09	0.3	233%	30	37° 55' 46"	81° 27' 39"	Little Marsh Fk
Marfork Coal Co.	WV1024337	S300809	004	7/31/2011	Iron, Total	Monthly	0.09	0.11	22%	31	37° 55' 46"	81° 27' 39"	Little Marsh Fk
Marfork Coal Co.	WV1024337	S300809	004	7/31/2011	Manganese, Total	Monthly	1	1.16	16%	31	37° 55' 46"	81° 27' 39"	Little Marsh Fk
Martin County Coal Corp.	KYG040930	880-0041	021	7/7/08	Manganese, Total	Daily	4	4.1	2%	1	37°43'21"	82°32'36"	Maynard Fork
Martin County Coal Corp.	KYG040930	880-0041	021	7/23/08	Manganese, Total	Daily	4	4.74	19%	1	37°43'21"	82°32'36"	Maynard Fork
Martin County Coal Corp.	KYG040930	880-0041	021	7/31/2008	Manganese, Total	Monthly	2	3.3633	68%	31	37°43'21"	82°32'36"	Maynard Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Martin County Coal Corp.	KYG042211	880-0014	006	3/1/11	Iron, Total	Daily	4	4.23	6%	1	37-45-35	82-32-38	Old Road Fork
Martin County Coal Corp.	KYG043295	480-5056	006	3/1/11	Iron, Total	Daily	4	4.23	6%	1	37-45-46	82-33-41	McGee Branch
Martin County Coal Corp.	KYG044644	680-5012	006	3/1/11	Iron, Total	Daily	4	4.23	6%	1	37-45-35	82-32-28	Old Road Fork
Martin County Coal Corp.	KYG044644	680-5012	327	4/30/2008	Iron, Total	Monthly	3.5	3.91	12%	30	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	7/24/08	Manganese, Total	Daily	4	6.96	74%	1	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	7/31/2008	Manganese, Total	Monthly	2	3.045	52%	31	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	8/8/08	pH	Daily	10	10.98	10%	1	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	8/15/08	pH	Daily	10	10.74	7%	1	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	11/26/08	pH	Daily	10	10.45	4%	1	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	2/28/09	pH	Daily	10	10.83	8%	1	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	6/30/09	Manganese, Total	Daily	4	5.5	38%	1	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	6/30/2009	Manganese, Total	Monthly	2	5.5	175%	30	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	9/30/09	Manganese, Total	Daily	4	6.05	51%	1	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	9/30/2009	Manganese, Total	Monthly	2	3.755	88%	30	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	3/15/10	Manganese, Total	Daily	4	5.72	43%	1	37°45'49"	82°32'29"	Old Fork Road
Martin County Coal Corp.	KYG044644	680-5012	327	9/13/10	Manganese, Total	Daily	4	5.06	27%	1	37°45'49"	82°32'29"	Old Fork Road
New Ridge Mining Co.	KY0003492	848-5434/848-9023/848-9024	001	4/26/2012	Iron, Total	Daily	4.0000	5.989	50%	1	36 48' 40"	83 15' 25"	Turtle Creek
New Ridge Mining Co.	KY0003492	848-5434	002	3/31/2011	Total Suspended Solids	Monthly	35	297	749%	31	36.48.54	83.14.05	Turtle Creek
New Ridge Mining Co.	KY0003492	848-5434	002	9/30/2011	Total Suspended Solids	Monthly	35	35.6667	2%	30	36.48.54	83.14.05	Turtle Creek
New Ridge Mining Co.	KY0003492	848-5434	103	1/30/2012	Total Suspended Solids	Daily	70.0000	89	27%	1	36-48-42	83-15-01	Turtle Creek
New Ridge Mining Co.	KY0003492	848-5434	103	1/31/2012	Total Suspended Solids	Monthly	35	51	46%	31	36-48-42	83-15-01	Turtle Creek
New Ridge Mining Co.	KY0003492	848-5434	107	4/30/2012	Total Suspended Solids	Monthly	35	70	100%	30	36° 49' 17"	83° 14' 03"	Turtle Creek
New Ridge Mining Co.	KYG042427	848-5435	0S1	4/30/2011	Total Suspended Solids	Monthly	35	147	320%	30	36-49-22	83-09-45	Crummies Creek
New Ridge Mining Co.	KYG045557	848-0251 848-0322	001	7/1/2012	Total Suspended Solids	Monthly	35.0000	37.6250	7.50%	31	36-48-45	83-13-31	Turtle Creek
New Ridge Mining Co.	KYG045557	848-0251 848-0322	001	7/11/2012	Total Suspended Solids	Daily	70.0000	192.0000	174.29%	1	36-48-45	83-13-31	Turtle Creek
New Ridge Mining Co.	KYG045557	848-0251 848-0322	001	10/3/2012	Total Suspended Solids	Daily	70.0000	92.0000	31.43%	1	36-48-45	83-13-31	Turtle Creek
New Ridge Mining Co.	KYG046296	848-0260	002	3/21/11	Total Suspended Solids	Daily	70	84	20%	1	36.49.17	83.14.03	Turtle Creek
New Ridge Mining Co.	KYG046296	848-0260	002	3/31/2011	Total Suspended Solids	Monthly	35	267	663%	31	36.49.17	83.14.03	Turtle Creek
New Ridge Mining Co.	KYG046296	848-0260	002	7/25/2011	Total Settleable Solids	Daily	0.5000	0.6	20%	1	36.49.17	83.14.03	Turtle Creek

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
New Ridge Mining Co.	KYG046296	848-0260	002	7/31/2011	Iron, Total	Monthly	3	3.4443	15%	31	36.49.17	83.14.03	Turtle Creek
New Ridge Mining Co.	KYG046296	848-0260	002	12/12/11	Total Suspended Solids	Daily	70.0000	104	49%	1	36.49.17	83.14.03	Turtle Creek
New Ridge Mining Co.	KYG046296	848-0260	002	12/20/11	Total Suspended Solids	Daily	70.0000	190	171%	1	36.49.17	83.14.03	Turtle Creek
New Ridge Mining Co.	KYG046296	848-0260	002	12/31/2011	Total Suspended Solids	Monthly	35	76.75	119%	31	36.49.17	83.14.03	Turtle Creek
New Ridge Mining Co.	KYG046296	848-0260	002	7/11/2012	Total Suspended Solids	Daily	70.0000	136.0000	94.29%	1	36.49.17	83.14.03	Turtle Creek
New Ridge Mining Co.	KYG046296	848-0260	002	7/11/2012	Iron, Total	Daily	4.0000	4.5650	14.13%	1	36.49.17	83.14.03	Turtle Creek
New Ridge Mining Co.	KYG046296	848-0260	010	3/12/2012	Total Suspended Solids	Daily	70.0000	79	13%	1	36-49-23	83-14-13	Turtle Creek
New Ridge Mining Co.	KYG046296	848-0260	010	3/31/2012	Total Suspended Solids	Monthly	35	44.5	27%	31	36-49-23	83-14-13	Turtle Creek
Nine Mile Spur LLC	VA82022	1102022	002	1/1/2013	Manganese, Total	Monthly	2.0	2.4	21.00%	31	36 57' 59"	82 46' 57"	Callahan Creek
Omar Mining Co.	WV0046027	U-5055-89/UO-10	001	5/31/2008	Manganese, Total	Monthly	2	2.02	1%	31	38°2'32"	81°41'31"	Laurel Ck
Omar Mining Co.	WV0047716	UO-191	002	8/5/09	Aluminum, Total	Daily	0.75	0.78	4%	1	38°2'16"	81°41'52"	Laurel Creek
Omar Mining Co.	WV0047716	UO-191	002	8/24/09	Aluminum, Total	Daily	0.75	1.01	35%	1	38°2'16"	81°41'52"	Laurel Creek
Omar Mining Co.	WV0047716	UO-191	002	8/31/2009	Aluminum, Total	Monthly	0.43	0.4833	12%	31	38°2'16"	81°41'52"	Laurel Creek
Omar Mining Co.	WV0056332	O-5019-82	002	1/31/2009	Iron, Total	Monthly	1.42	1.605	13%	31	38°1'4"	81°43'43"	Robinson Ck
Omar Mining Co.	WV0056332	O-5019-92	002	4/13/09	Aluminum, Total	Daily	0.75	0.8	7%	1	38°1'4"	81°43'43"	Robinson Ck
Omar Mining Co.	WV0056332	O-5019-92	002	4/30/2009	Aluminum, Total	Monthly	0.43	0.52	21%	30	38°1'4"	81°43'43"	Robinson Ck
Omar Mining Co.	WV0056332	O501992	002	12/1/2012	Iron, Total	Monthly	1.4200	1.8200	28.17%	31	38°1'4"	81°43'43"	Robinson Ck
Omar Mining Co.	WV0056332		003	7/31/08	Aluminum, Total	Daily	0.75	0.82	9%	1	38°0'51"	81°43'36"	Burnt Cabin Branch
Omar Mining Co.	WV0056332		003	7/31/2008	Aluminum, Total	Monthly	0.43	0.54	26%	31	38°0'51"	81°43'36"	Burnt Cabin Branch
Omar Mining Co.	WV0056332	O-5019-92	004	4/30/2008	Aluminum, Total	Monthly	0.43	0.445	3%	30	38°0'53"	81°43'42"	Cabin Fk
Omar Mining Co.	WV0056332	O-5019-92	004	7/31/08	Aluminum, Total	Daily	0.75	0.9	20%	1	38°0'53"	81°43'42"	Cabin Fk
Omar Mining Co.	WV0056332	O-5019-92	004	7/31/2008	Aluminum, Total	Monthly	0.43	0.825	92%	31	38°0'53"	81°43'42"	Cabin Fk
Omar Mining Co.	WV0056332	O-5019-92	004	1/16/09	Aluminum, Total	Daily	0.75	1.27	69%	1	38°0'53"	81°43'42"	Cabin Fk
Omar Mining Co.	WV0056332	O-5019-82	004	1/31/2009	Aluminum, Total	Monthly	0.43	0.68	58%	31	38°0'53"	81°43'42"	Cabin Fk
Omar Mining Co.	WV0056332	O-5019-92	007	2/7/08	Aluminum, Total	Daily	0.75	1.66	121%	1	38°1'17"	81°43'50"	Pond Fk
Omar Mining Co.	WV0056332	O-5019-92	007	2/28/2008	Aluminum, Total	Monthly	0.43	0.925	115%	28	38°1'17"	81°43'50"	Pond Fk
Omar Mining Co.	WV0056332	O-5019-92	007	3/7/08	Total Suspended Solids	Daily	70	102	46%	1	38°1'17"	81°43'50"	Pond Fk
Omar Mining Co.	WV0056332	O-5019-92	007	3/31/2008	Total Suspended Solids	Monthly	35	51.5	47%	31	38°1'17"	81°43'50"	Pond Fk
Omar Mining Co.	WV0056332	O-5019-92	007	7/31/2008	Aluminum, Total	Monthly	0.43	0.625	45%	31	38°1'17"	81°43'50"	Pond Fk
Omar Mining Co.	WV0056332	O-5019-92	007	1/31/2009	Total Suspended Solids	Monthly	35	38	9%	31	38°1'17"	81°43'50"	Pond Fk
Omar Mining Co.	WV0056332	O-5019-92	007	1/31/2009	Aluminum, Total	Monthly	0.43	0.54	26%	31	38°1'17"	81°43'50"	Pond Fk
Omar Mining Co.	WV1004387	S-5023-87/U-502	005	4/30/2008	Manganese, Total	Monthly	1	1.41	41%	30	38°1'55"	81°39'26"	Cold Fk
Omar Mining Co.	WV1004387	S502387	005	5/31/2008	Manganese, Total	Monthly	1	1.39	39%	31	38°1'55"	81°39'26"	Cold Fk
Omar Mining Co.	WV1004387	S502387	005	6/30/2008	Manganese, Total	Monthly	1	1.69	69%	30	38°1'55"	81°39'26"	Cold Fk
Omar Mining Co.	WV1008358	U040300	001	7/30/10	Selenium	Daily	8.2	12.6	54%	1	38° 2' 27"	81° 40' 54"	Laurel Ck
Omar Mining Co.	WV1008358	U040300	001	7/31/2010	Selenium	Monthly	4.7	7.25	54%	31	38° 2' 27"	81° 40' 54"	Laurel Ck
Peerless Eagle Coal Co.	WV0003051	O-41-83 (HOST),	006	3/11/08	Aluminum, Total	Daily	0.75	0.84	12%	1	38° 16' 40"	80° 54' 28"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	O-41-83 (HOST),	006	3/31/2008	Aluminum, Total	Monthly	0.43	0.63	47%	31	38° 16' 40"	80° 54' 28"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	O-41-83 (HOST),	013	10/27/11	Iron, Total	Daily	0.8200	1.58	93%	1	38-16-43	80-54-33	Rockcamp Branch
Peerless Eagle Coal Co.	WV0003051	O-41-83 (HOST),	013	10/31/2011	Iron, Total	Monthly	0.47	0.6775	44%	31	38-16-43	80-54-33	Rockcamp Branch
Peerless Eagle Coal Co.	WV0003051	O-41-83 (HOST),	013	3/6/2012	Iron, Total	Daily	0.8200	0.9	10%	1	38-16-43	80-54-33	Rockcamp Branch
Peerless Eagle Coal Co.	WV0003051	O-41-83 (HOST),	017	8/31/2009	Iron, Total	Monthly	0.47	0.695	48%	31	38°16'27"	80°54'31"	Rockcamp Branch

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Peerless Eagle Coal Co.	WV0003051	O-41-83(HOST)	017	10/31/2009	Iron, Total	Monthly	0.47	0.59	26%	31	38°16'27"	80°54'31"	Rockcamp Branch
Peerless Eagle Coal Co.	WV0003051	O-41-83 (HOST),	017	11/30/09	Iron, Total	Daily	0.82	1.58	93%	1	38°16'27"	80°54'31"	Rockcamp Branch
Peerless Eagle Coal Co.	WV0003051	O-41-83(HOST),	017	11/30/2009	Iron, Total	Monthly	0.47	1.0131	116%	30	38°16'27"	80°54'31"	Rockcamp Branch
Peerless Eagle Coal Co.	WV0003051	O-41-83 (HOST),	017	1/13/10	Iron, Total	Daily	0.82	1.76	115%	1	38°16'27"	80°54'31"	Rockcamp Branch
Peerless Eagle Coal Co.	WV0003051	O-41-83 (HOST),	017	1/31/2010	Iron, Total	Monthly	0.47	0.5678	21%	31	38°16'27"	80°54'31"	Rockcamp Branch
Peerless Eagle Coal Co.	WV0003051	O-41-83 (HOST),	017	1/9/2012	Iron, Total	Daily	0.8200	0.87	6%	1	38°16'27"	80°54'31"	Rockcamp Branch
Peerless Eagle Coal Co.	WV0003051	O-41-83 (HOST),	018	12/14/08	Aluminum, Total	Daily	0.75	1.86	148%	1	38°16'27"	80°54'29"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	O-41-83(HOST),	018	12/31/2008	Aluminum, Total	Monthly	0.43	0.7475	74%	31	38°16'27"	80°54'29"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	0-21-84	023	5/13/08	Aluminum, Total	Daily	0.75	0.92	23%	1	38°16'45"	80°54'39"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	0-21-84	023	8/31/2009	Iron, Total	Monthly	0.47	0.495	5%	31	38°16'45"	80°54'39"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	0-21-84	023	6/17/10	Iron, Total	Daily	0.82	0.95	16%	1	38°16'45"	80°54'39"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	0-21-84	023	7/28/10	Iron, Total	Daily	0.82	0.9	10%	1	38°16'45"	80°54'39"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	0-21-84	023	7/31/2010	Iron, Total	Monthly	0.47	0.8	70%	31	38°16'45"	80°54'39"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	0-21-84	023	3/31/2011	Iron, Total	Monthly	0.47	0.5	6%	31	38°16'45"	80°54'39"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	0-21-84	023	5/25/2011	Iron, Total	Daily	0.8200	1.23	50%	1	38°16'45"	80°54'39"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	0-21-84	023	5/31/2011	Iron, Total	Monthly	0.47	0.48	2%	31	38°16'45"	80°54'39"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	0-21-84	023	6/29/2011	Iron, Total	Daily	0.8200	1.02	24%	1	38°16'45"	80°54'39"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	0-21-84	023	8/15/2011	Iron, Total	Daily	0.8200	1.11	35%	1	38°16'45"	80°54'39"	Rockcamp Br
Peerless Eagle Coal Co.	WV0003051	O004183	023	8/13/2012	Iron, Total	Daily	0.8200	0.8300	1.22%	1	38°16'45"	80°54'39"	Rockcamp Br
Peerless Eagle Coal Co.	WV00090719	U-41-84	003	3/31/2008	Aluminum, Total	Monthly	0.08	0.15	88%	31	38°19'13"	80°52'59"	Pine Rn
Peerless Eagle Coal Co.	WV00090719	U-41-84	003	4/30/2008	Aluminum, Total	Monthly	0.08	0.12	50%	30	38°19'13"	80°52'59"	Pine Rn
Peerless Eagle Coal Co.	WV00096598		001	7/31/2010	Aluminum, Total	Monthly	0.08	0.12	50%	31	38° 21' 21"	80° 55' 43"	Twentymile Ck
Peerless Eagle Coal Co.	WV00096598	U-3005-90 (HOST)	012	6/3/09	Aluminum, Total	Daily	0.14	0.19	36%	1	38°20'56"	80°55'36"	Neff Fork
Peerless Eagle Coal Co.	WV00096598	U-3005-9 (HOST)	012	6/30/2009	Aluminum, Total	Monthly	0.08	0.19	138%	30	38°20'56"	80°55'36"	Neff Fork
Peerless Eagle Coal Co.	WV00096598	U-3005-9 (HOST)	012	11/30/09	Aluminum, Total	Daily	0.14	0.32	129%	1	38°20'56"	80°55'36"	Neff Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Peerless Eagle Coal Co.	WV0096598	U-3005-9 (HOST)	012	11/30/2009	Aluminum, Total	Monthly	0.08	0.32	300%	30	38°20'56"	80°55'36"	Neff Fork
Peerless Eagle Coal Co.	WV0096598	U-3005-9 (HOST)	012	12/31/09	Aluminum, Total	Daily	0.14	0.28	100%	1	38°20'56"	80°55'36"	Neff Fork
Peerless Eagle Coal Co.	WV0096598	U-3005-9 (HOST)	012	12/31/2009	Aluminum, Total	Monthly	0.08	0.28	250%	31	38°20'56"	80°55'36"	Neff Fork
Peerless Eagle Coal Co.	WV0096598	U-3005-90 (HOST)	014	3/7/08	Total Settleable Solids	Daily	0.5	18	3500%	1	38°20'56"	80°55'36"	Twentymile Ck
Peerless Eagle Coal Co.	WV0096598	U-3005-90 (HOST)	014	12/31/2008	Aluminum, Total	Monthly	0.08	0.12	50%	31	38°20'56"	80°55'36"	Twentymile Ck
Peerless Eagle Coal Co.	WV0096598	U-3005-90 (HOST)	014	6/3/09	Aluminum, Total	Daily	0.14	0.49	250%	1	38°20'56"	80°55'36"	Twentymile Ck
Peerless Eagle Coal Co.	WV0096598	U-3005-9 (HOST)	014	6/30/2009	Aluminum, Total	Monthly	0.08	0.49	513%	30	38°20'56"	80°55'36"	Twentymile Ck
Peerless Eagle Coal Co.	WV0096598	U-3005-90 (HOST)	014	12/31/2009	Aluminum, Total	Monthly	0.08	0.09	13%	31	38°20'56"	80°55'36"	Twentymile Ck
Peerless Eagle Coal Co.	WV1002031	S-3008-89 (HOST)	003	3/31/2008	Aluminum, Total	Monthly	0.08	0.135	69%	31	38° 23' 37"	80° 50' 50"	Enock Br/Muddlety Ck
Peerless Eagle Coal Co.	WV1002031	S-3008-89 (HOST)	003	4/28/08	Aluminum, Total	Daily	0.14	0.44	214%	1	38°23'37"	80°50'50"	Enock Br/Muddlety Ck
Peerless Eagle Coal Co.	WV1002031	S-3008-89 (HOST)	003	4/30/2008	Aluminum, Total	Monthly	0.08	0.255	219%	30	38°23'37"	80°50'50"	Enock Br/Muddlety Ck
Peerless Eagle Coal Co.	WV1002031	S-3008-89 (HOST)	003	11/30/2008	Aluminum, Total	Monthly	0.43	0.72	67%	30	38°23'37"	80°50'50"	Enock Br/Muddlety Ck
Peerless Eagle Coal Co.	WV1002031	S-3008-89 (HOST)	003	11/30/2008	Total Suspended Solids	Monthly	35	43	23%	30	38°23'37"	80°50'50"	Enock Br/Muddlety Ck
Peerless Eagle Coal Co.	WV1002031	S-3008-89 (HOST)	003	12/4/08	Aluminum, Total	Daily	0.75	0.87	16%	1	38°23'37"	80°50'50"	Enock Br/Muddlety Ck
Peerless Eagle Coal Co.	WV1002040	U-300489	003	2/23/11	Aluminum, Total	Daily	0.75	0.83	11%	1	38° 23' 37"	80° 50' 51"	Enock Br/Muddlety Ck
Peerless Eagle Coal Co.	WV1002040	U-300489	003	2/10/2012	Aluminum, Total	Daily	0.7500	1.97	163%	1	38° 23' 37"	80° 50' 51"	Enock Br/Muddlety Ck
Peerless Eagle Coal Co.	WV1014587	S-3021-93	030	5/2/08	Aluminum, Total	Daily	0.75	0.97	29%	1	38°21'57"	80°56'0"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	030	5/2/08	Manganese, Total	Daily	4	16.35	309%	1	38°21'57"	80°56'0"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	030	6/6/08	Aluminum, Total	Daily	0.75	0.94	25%	1	38°21'57"	80°56'0"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	030	6/6/08	Manganese, Total	Daily	4	16.43	311%	1	38°21'57"	80°56'0"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	030	6/30/2008	Aluminum, Total	Monthly	0.43	0.94	119%	30	38°21'57"	80°56'0"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	030	6/30/2008	Manganese, Total	Monthly	2	16.43	722%	30	38°21'57"	80°56'0"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	033	1/20/10	Manganese, Total	Daily	4	5.25	31%	1	38°21'49"	80°55'47"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	033	1/29/10	Manganese, Total	Daily	4	4.62	16%	1	38°21'49"	80°55'47"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	033	1/31/2010	Manganese, Total	Monthly	2	4.935	147%	31	38°21'49"	80°55'47"	Twentymile Creek

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Peerless Eagle Coal Co.	WV1014587	S-3021-93	033	2/8/10	Manganese, Total	Daily	4	4.45	11%	1	38°21'49"	80°55'47"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	033	2/19/10	Manganese, Total	Daily	4	4.54	14%	1	38°21'49"	80°55'47"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	033	2/28/2010	Manganese, Total	Monthly	2	4.495	125%	28	38°21'49"	80°55'47"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	035	5/15/08	pH	Daily	9	9.04	0.4444%	1	38°21'34"	80°56'12"	Twentymile Creek
Peerless Eagle Coal Co.	WV1014587	S-3021-93	048	12/31/2011	Manganese, Total	Monthly	2	2.515	26%	31	38-22-35	80-56-48	Lilly Fork
Performance Coal Co.	WV0064556	U-13-83	014	2/4/08	Iron, Total	Daily	2.63	2.75	5%	1	37° 55' 32"	81° 32' 57"	Marsh Fk
Performance Coal Co.	WV0064556	U-13-83	014	2/28/2008	Iron, Total	Monthly	1.52	1.74	14%	28	37° 55' 32"	81° 32' 57"	Marsh Fk
Performance Coal Co.	WV0064556		030	8/31/2008	Manganese, Total	Monthly	1	1.17	17%	31	37°55'39"	81°32'52"	Marsh Fork
Performance Coal Co.	WV0064556		030	9/30/2008	Manganese, Total	Monthly	1	1.01	1%	30	37°55'39"	81°32'52"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	006	4/30/2008	Aluminum, Total	Monthly	0.43	0.67	56%	30	37°54'58"	81°32'19"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	008	8/31/2008	Aluminum, Total	Monthly	0.43	1.05	144%	31	37°54'9"	81°32'37"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	008	9/30/2008	Aluminum, Total	Monthly	0.43	0.5233	22%	30	37°54'9"	81°32'37"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	008	11/18/08	Aluminum, Total	Daily	0.75	0.83	11%	1	37°54'9"	81°32'37"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	008	11/30/2008	Aluminum, Total	Monthly	0.43	0.5533	29%	30	37°54'9"	81°32'37"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	008	1/31/2009	Aluminum, Total	Monthly	0.43	0.44	2%	31	37°54'9"	81°32'37"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	008	8/5/09	Aluminum, Total	Daily	0.75	0.88	17%	1	37°54'9"	81°32'37"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	008	1/28/10	Aluminum, Total	Daily	0.75	0.92	23%	1	37°54'9"	81°32'37"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	008	1/31/2010	Aluminum, Total	Monthly	0.43	0.4833	12%	31	37°54'9"	81°32'37"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	008	2/11/10	Aluminum, Total	Daily	0.75	1.1	47%	1	37°54'9"	81°32'37"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	008	3/30/10	Aluminum, Total	Daily	0.75	0.82	9%	1	37°54'9"	81°32'37"	Marsh Fork
Performance Coal Co.	WV0097250	0-3032-90/H-478	008	3/31/2010	Aluminum, Total	Monthly	0.43	0.4967	16%	31	37°54'9"	81°32'37"	Marsh Fork
Performance Coal Co.	WV0097250		401	3/31/10	Dissolved Oxygen	Daily	6	4.2	30%	1	37° 54' 58"	81° 32' 19"	Marsh Fk
Performance Coal Co.	WV1014226	U-3016-95-42-92	001	6/25/08	Aluminum, Total	Daily	0.75	5.65	653%	1	37°55'18"	81°33'3"	Marsh Fork
Performance Coal Co.	WV1014226	U-3016-95-42-92	001	6/30/2008	Aluminum, Total	Monthly	0.43	1.986666	362%	30	37°55'18"	81°33'3"	Marsh Fork
Performance Coal Co.	WV1014226	U-3016-95-42-92	001	7/31/08	Total Suspended Solids	Daily	70	80	14%	1	37°55'18"	81°33'3"	Marsh Fork
Performance Coal Co.	WV1014226	U-3016-95-42-92	001	7/31/2008	Total Suspended Solids	Monthly	35	40.5	16%	31	37°55'18"	81°33'3"	Marsh Fork
Performance Coal Co.	WV1014226	U-3016-95-42-92	001	7/31/08	Aluminum, Total	Daily	0.75	0.82	9%	1	37°55'18"	81°33'3"	Marsh Fork

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Performance Coal Co.	WV1014226	U-3016-95-42-92	001	7/31/2008	Aluminum, Total	Monthly	0.43	0.515	20%	31	37°55'18"	81°33'3"	Marsh Fork
Performance Coal Co.	WV1014226	U-3042-92	006	6/30/2008	Total Suspended Solids	Monthly	35	61	74%	30	37°52'55"	81°32'33"	Hazy Creek
Performance Coal Co.	WV1014226	U-3042-92	006	2/2/11	Aluminum, Total	Daily	0.75	0.78	4%	1	37°52'55"	81°32'33"	Hazy Creek
Performance Coal Co.	WV1014226	U-3042-92	008	6/16/10	Aluminum, Total	Daily	0.75	0.8	7%	1	37°52'22"	81°33'13"	Hazy Ck
Performance Coal Co.	WV1014226		010	9/15/08	Aluminum, Total	Daily	0.75	1.41	88%	1	37°54'51"	81°36'2"	West Fk
Performance Coal Co.	WV1014226		010	9/30/2008	Aluminum, Total	Monthly	0.43	0.73	70%	30	37°54'51"	81°36'2"	West Fk
Performance Coal Co.	WV1014226	U-3016-95	016	4/8/08	Aluminum, Total	Daily	0.75	0.85	13%	1	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	4/21/08	Aluminum, Total	Daily	0.75	0.85	13%	1	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	4/30/2008	Aluminum, Total	Monthly	0.43	0.85	98%	30	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	5/5/08	Aluminum, Total	Daily	0.75	1.86	148%	1	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	5/21/08	Aluminum, Total	Daily	0.75	1.36	81%	1	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	5/31/2008	Aluminum, Total	Monthly	0.43	1.61	274%	31	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	6/2/08	Aluminum, Total	Daily	0.75	0.88	17%	1	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	6/28/08	Aluminum, Total	Daily	0.75	1.24	65%	1	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	6/30/2008	Aluminum, Total	Monthly	0.43	1.06	147%	30	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	7/9/08	Aluminum, Total	Daily	0.75	0.88	17%	1	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	7/30/08	Aluminum, Total	Daily	0.75	1.36	81%	1	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	7/31/2008	Aluminum, Total	Monthly	0.43	1.12	160%	31	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	8/29/08	Aluminum, Total	Daily	0.75	0.77	3%	1	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	8/31/2008	Aluminum, Total	Monthly	0.43	0.77	79%	31	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	10/31/2008	Aluminum, Total	Monthly	0.43	0.84	95%	31	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	10/31/08	Aluminum, Total	Daily	0.75	1.01	35%	1	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	6/30/09	Aluminum, Total	Daily	2.2	2.73	24%	1	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3016-95	016	6/30/2009	Aluminum, Total	Monthly	1.27	1.5175	19%	30	37°56'14"	81°37'29"	Jarrell Branch
Performance Coal Co.	WV1014226	U-3042-92	401	3/18/08	BOD	Daily	10	76.29	663%	1	37°55'2"	81°32'57"	Marsh Fk
Performance Coal Co.	WV1014226	U-3042-92	401	3/18/08	Dissolved Oxygen	Daily	6	1.2	80%	1	37°55'2"	81°32'57"	Marsh Fk
Performance Coal Co.	WV1014226	U-3042-92	401	3/31/09	BOD, 5-Day 20 Deg.C	Daily	0.26	0.64	146%	1	37°55'2"	81°32'57"	Marsh Fk
Performance Coal Co.	WV1014226	U-3042-92	401	3/31/09	BOD, 5-Day 20 Deg.C	Daily	10	53.29	433%	1	37°55'2"	81°32'57"	Marsh Fk
Performance Coal Co.	WV1014226	U-3016-95	401	12/22/09	Fecal Coliform	Daily	400	4200	950%	1	37°55'2"	81°32'57"	Marsh Fk
Performance Coal Co.	WV1014226	U-3042-92	401	12/31/09	BOD, 5-Day 20 Deg.C	Daily	0.26	1.83	604%	1	37°55'2"	81°32'57"	Marsh Fk
Performance Coal Co.	WV1014226	U-3042-92	401	12/31/09	BOD, 5-Day 20 Deg.C	Daily	10	152.16	1422%	1	37°55'2"	81°32'57"	Marsh Fk
Performance Coal Co.	WV1014226	U-3016-95	401	3/10/10	Dissolved Oxygen	Daily	6	5.4	10%	1	37°55'2"	81°32'57"	Marsh Fk
Performance Coal Co.	WV1014226	U-3042-92	401	3/31/10	Ammonia Nitrogen	Daily	6	22.1	268%	1	37°55'2"	81°32'57"	Marsh Fk
Performance Coal Co.	WV1014226	U-3042-92	401	6/8/10	BOD, 5-Day 20 Deg.C	Daily	10	27.72	177%	1	37°55'2"	81°32'57"	Marsh Fk
Performance Coal Co.	WV1014994	D-114-82	029	4/4/2011	Aluminum, Total	Daily	0.7500	0.88	17%	1	37° 53' 9"	81° 31' 42"	Marsh Fk
Peter Cave Mining	KYG045893	880-8008	008	4/18/2011	Total Suspended Solids	Daily	70.0000	81	16%	1	37.47.49	82.24.13	Holty Branch
Peter Cave Mining	KYG045893	880-8008	017	4/18/2011	Total Suspended Solids	Daily	70.0000	79	13%	1	37.47.47	82.23.59	Holty Branch
Pigeon Creek Processing Corporation	VA81769	1301769	007	1/4/11	Manganese, Total	Daily	4	8.86	122%	1	36.97.87	82.78.33	Callahan Creek
Power Mountain Coal Co.	WV0069531	S-53-84	001	12/17/08	Aluminum, Total	Daily	0.14	0.69	393%	1	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	12/31/2008	Aluminum, Total	Monthly	0.08	0.385	381%	31	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	1/31/2009	Aluminum, Total	Monthly	0.08	0.09	13%	31	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	2/16/09	Aluminum, Total	Daily	0.14	0.15	7%	1	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	2/27/09	Aluminum, Total	Daily	0.14	0.26	86%	1	38°17'58"	80°58'36"	Jones Br/Peters Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Power Mountain Coal Co.	WV0069531	S-53-84	001	2/28/2009	Aluminum, Total	Monthly	0.08	0.205	156%	28	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	3/30/09	Aluminum, Total	Daily	0.14	0.4	186%	1	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	3/31/2009	Aluminum, Total	Monthly	0.08	0.24	200%	31	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	4/7/09	Aluminum, Total	Daily	0.14	0.43	207%	1	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	4/23/09	Aluminum, Total	Daily	0.14	0.23	64%	1	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	4/30/2009	Aluminum, Total	Monthly	0.08	0.33	313%	30	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	5/9/09	Aluminum, Total	Daily	0.14	0.28	100%	1	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	5/26/09	Total Suspended Solids	Daily	70	120	71%	1	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	5/26/09	Aluminum, Total	Daily	0.14	0.69	393%	1	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	5/31/2009	Aluminum, Total	Monthly	0.08	0.485	506%	31	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	6/30/2009	Aluminum, Total	Monthly	0.08	0.095	19%	30	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	7/31/09	Aluminum, Total	Daily	0.14	0.21	50%	1	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	7/31/2009	Aluminum, Total	Monthly	0.08	0.185	131%	31	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	8/31/09	Aluminum, Total	Daily	0.14	0.17	21%	1	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	8/31/2009	Aluminum, Total	Monthly	0.08	0.095	19%	31	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0069531	S-53-84	001	10/31/2009	Aluminum, Total	Monthly	0.08	0.085	6%	31	38°17'58"	80°58'36"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV0091405	D-27-85	005	5/26/09	Total Suspended Solids	Daily	70	115	64%	1	38°18'2"	80°58'40"	Jones Br/Peters Ck
Power Mountain Coal Co.	WV1019180	0-3014-99	001	3/31/2008	Manganese, Total	Monthly	2	2.45	23%	31	38°18'1"	81°11'13"	Sugarcamp Br/Twenty mile Ck
Power Mountain Coal Co.	WV1019180	0-3014-99	001	7/31/2008	Manganese, Total	Monthly	2	2.265	13%	31	38°18'1"	81°11'13"	Sugarcamp Br/Twenty mile Ck
Power Mountain Coal Co.	WV1019180	0-3014-99	001	10/31/2008	Manganese, Total	Monthly	2	3.205	60%	31	38°18'1"	81°11'13"	Sugarcamp Br/Twenty mile Ck
Rawl Sales & Processing Co.	WV0064262	O-41-84/P-572, O-5078-92	001	1/28/09	Aluminum, Total	Daily	0.75	1.33	77%	1	37°39'0"	82°11'15"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262	O-41-84/P-572, O-5078-92	001	1/30/09	Aluminum, Total	Daily	0.75	1.24	65%	1	37°39'0"	82°11'15"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262	O-41-84/P-572, O-5078-92	001	1/31/2009	Aluminum, Total	Monthly	0.43	0.9267	116%	31	37°39'0"	82°11'15"	Sprouse Ck

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Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Rawl Sales & Processing Co.	WV0064262		002	7/24/08	Aluminum, Total	Daily	0.14	0.19	36%	1	37°36'6"	82°11'33"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		002	7/31/2008	Aluminum, Total	Monthly	0.08	0.19	138%	31	37°36'6"	82°11'33"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		002	8/7/08	Aluminum, Total	Daily	0.14	0.16	14%	1	37°36'6"	82°11'33"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		002	8/31/2008	Aluminum, Total	Monthly	0.08	0.115	44%	31	37°36'6"	82°11'33"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		002	1/30/09	Aluminum, Total	Daily	0.75	2.72	263%	1	37°36'6"	82°11'33"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		002	1/31/2009	Aluminum, Total	Monthly	0.43	1.23	186%	31	37°36'6"	82°11'33"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		003	12/3/08	Aluminum, Total	Daily	0.75	4.65	520%	1	37°38'59"	82°11'13"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		003	12/15/08	Aluminum, Total	Daily	0.75	1.19	59%	1	37°38'59"	82°11'13"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		003	12/29/08	Aluminum, Total	Daily	0.75	0.83	11%	1	37°38'59"	82°11'13"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		003	12/30/08	Aluminum, Total	Daily	0.75	3.14	319%	1	37°38'59"	82°11'13"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		003	12/31/2008	Aluminum, Total	Monthly	0.43	2.026	371%	31	37°38'59"	82°11'13"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		003	1/13/09	Aluminum, Total	Daily	0.75	1.25	67%	1	37°38'59"	82°11'13"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		003	1/26/09	Aluminum, Total	Daily	0.75	1.76	135%	1	37°38'59"	82°11'13"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		003	1/30/09	Aluminum, Total	Daily	0.75	1.02	36%	1	37°38'59"	82°11'13"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		003	1/31/2009	Aluminum, Total	Monthly	0.43	1.05	144%	31	37°38'59"	82°11'13"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		003	3/2/09	Aluminum, Total	Daily	0.75	1.32	76%	1	37°38'59"	82°11'13"	Sprouse Ck
Rawl Sales & Processing Co.	WV0064262		004	5/18/09	Aluminum, Total	Daily	0.75	0.76	1%	1	37°38'59"	82°11'8"	Tug Fk
Rawl Sales & Processing Co.	WV0095796		006	4/30/09	Aluminum, Total	Daily	0.75	1	33%	1	37°38'43"	82°10'27"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	7/31/2008	Aluminum, Total	Monthly	0.08	0.14	75%	31	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	8/7/08	Aluminum, Total	Daily	0.14	0.49	250%	1	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	8/31/2008	Aluminum, Total	Monthly	0.08	0.49	513%	31	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	1/26/09	Aluminum, Total	Daily	0.75	2.64	252%	1	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	1/30/09	Aluminum, Total	Daily	0.75	10.83	1344%	1	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	1/31/2009	Aluminum, Total	Monthly	0.43	3.535	722%	31	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	3/11/09	Aluminum, Total	Daily	0.75	1.06	41%	1	37°38'35"	82°10'26"	Ferrell Branch

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Rawl Sales & Processing Co.	WV0095796		007	3/21/09	Aluminum, Total	Daily	0.75	2.74	265%	1	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	3/31/2009	Aluminum, Total	Monthly	0.43	1.08	151%	31	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	4/6/09	Aluminum, Total	Daily	0.75	0.95	27%	1	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	4/17/09	Aluminum, Total	Daily	0.75	0.9	20%	1	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	4/25/09	Aluminum, Total	Daily	0.75	3.05	307%	1	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	4/30/2009	Aluminum, Total	Monthly	0.43	0.9671	125%	30	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	5/6/09	Aluminum, Total	Daily	0.75	1.24	65%	1	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	5/18/09	Aluminum, Total	Daily	0.75	1.29	72%	1	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		007	5/31/2009	Aluminum, Total	Monthly	0.43	0.715	66%	31	37°38'35"	82°10'26"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		009	7/31/2008	Aluminum, Total	Monthly	0.08	0.11	38%	31	37°38'51"	82°10'17"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		009	8/7/08	Aluminum, Total	Daily	0.14	0.37	164%	1	37°38'51"	82°10'17"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		009	8/31/2008	Aluminum, Total	Monthly	0.08	0.21	163%	31	37°38'51"	82°10'17"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		009	3/31/09	Aluminum, Total	Daily	0.75	0.85	13%	1	37°38'51"	82°10'17"	Ferrell Branch
Rawl Sales & Processing Co.	WV0095796		017	8/20/08	Aluminum, Total	Daily	0.14	0.15	7%	1	37°40'31"	82°19'17"	Pigeon Creek
Rawl Sales & Processing Co.	WV0095796		017	8/31/2008	Aluminum, Total	Monthly	0.08	0.1	25%	31	37°40'31"	82°19'17"	Pigeon Creek
Rawl Sales & Processing Co.	WV0095800		007	7/24/08	Aluminum, Total	Daily	0.14	0.23	64%	1	37°39'10"	82°11'19"	Sprouse Ck
Rawl Sales & Processing Co.	WV0095800		007	8/7/08	Aluminum, Total	Daily	0.14	0.34	143%	1	37°39'10"	82°11'19"	Sprouse Ck
Rawl Sales & Processing Co.	WV0095800		007	8/31/2008	Aluminum, Total	Monthly	0.08	0.34	325%	31	37°39'10"	82°11'19"	Sprouse Ck
Rawl Sales & Processing Co.	WV1013416	S-5052-92	002	1/25/10	Aluminum, Total	Daily	0.75	2	167%	1	37°39'54"	82°13'13"	Lick Ck
Rawl Sales & Processing Co.	WV1013416	S-5052-92	002	1/31/2010	Aluminum, Total	Monthly	0.43	2	365%	31	37°39'54"	82°13'13"	Lick Ck
Rawl Sales & Processing Co.	WV1013467		001	8/20/08	Aluminum, Total	Daily	0.14	0.15	7%	1	37°40'31"	82°10'17"	Pigeon Ck
Rawl Sales & Processing Co.	WV1013467		001	8/31/2008	Aluminum, Total	Monthly	0.08	0.1	25%	31	37°40'31"	82°10'17"	Pigeon Ck
Resource Land Co.	KY0087327	848-5491	001	4/25/2012	Total Suspended Solids	Daily	70.0000	106	51%	1	36 57' 21"	83 00' 11"	Pounding Mill
Resource Land Co.	KY0087327	848-5491	002	5/31/2011	Total Suspended Solids	Monthly	35	37	6%	31	36-56-47	82-59-50	Cloverlick Creek
Resource Land Co.	KY0087327	848-5491	003	7/1/2012	Total Suspended Solids	Monthly	35.0000	45.5000	30.00%	31	36 57' 52"	83 00' 07"	Cloverlick Creek
Resource Land Co.	KY0087327	848-5491	006	4/15/2013	Acidity (82206)	Daily	0.0000	6.0000		1	36-56-40	83-01-32	Pounding Mill Branch
Resource Land Co.	KYG040678	848-5491	001	7/14/2011	Total Suspended Solids	Daily	70.0000	73	4%	1	36-57-21	83-00-11	Pounding Mill
Resource Land Co.	KYG040678		003	5/31/2011	Total Suspended Solids	Monthly	35	37.8	8%	31	36.57.52	83.00.07	Cloverlick Creek

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Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Resource Land Co.	KYG040678	848-5491	006	3/7/11	pH	Daily	9	10.5	17%	1	36.56.40	83.01.32	Pounding Mill
Resource Land Co.	KYG043528	848-9027	001	5/31/2011	Total Suspended Solids	Monthly	35	37	6%	31	36-56-47	82.59-.50	Cloverlick Creek
Road Fork Development Co.	WV1006584	O004782	006	12/1/2012	Aluminum, Total	Monthly	0.4300	6.2400	1351.16%	31	37° 36' 42"	81° 35' 40"	Right Fk/Turkey Ck
Road Fork Development Co.	WV1006584	O004782	006	12/27/2012	Aluminum, Total	Daily	0.7500	6.2400	732.00%	1	37° 36' 42"	81° 35' 40"	Right Fk/Turkey Ck
Road Fork Development Co.	WV1017250	S-5017-96	001	1/29/09	Aluminum, Total	Daily	0.14	0.155	11%	1	37°42'54"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-96	001	1/30/09	Aluminum, Total	Daily	0.14	0.469	235%	1	37°42'54"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-98	001	1/31/2009	Aluminum, Total	Monthly	0.08	0.312	290%	31	37°42'54"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-96	001	3/3/09	Aluminum, Total	Daily	0.14	0.636	354%	1	37°42'54"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-96	001	3/19/09	Aluminum, Total	Daily	0.14	0.547	291%	1	37°42'54"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-98	001	3/31/2009	Aluminum, Total	Monthly	0.08	0.4367	446%	31	37°42'54"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-98	001	10/30/09	Iron, Total	Daily	1.62	1.81	12%	1	37°42'54"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-98	001	10/31/2009	Iron, Total	Monthly	0.93	1.81	95%	31	37°42'54"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-96	002	1/29/09	Aluminum, Total	Daily	0.14	0.146	4%	1	37°42'29"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-96	002	1/30/09	Aluminum, Total	Daily	0.14	0.448	220%	1	37°42'29"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-98	002	1/31/2009	Aluminum, Total	Monthly	0.08	0.297	271%	31	37°42'29"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-96	002	3/3/09	Aluminum, Total	Daily	0.14	0.186	33%	1	37°42'29"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-96	002	3/19/09	Aluminum, Total	Daily	0.14	0.363	159%	1	37°42'29"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-98	002	3/31/2009	Aluminum, Total	Monthly	0.08	0.2745	243%	31	37°42'29"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-98	002	10/26/09	Iron, Total	Daily	1.62	2.54	57%	1	37°42'29"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1017250	S-5017-98	002	10/31/2009	Iron, Total	Monthly	0.93	2.54	173%	31	37°42'29"	81°57'37"	Middle Fk/Island Ck
Road Fork Development Co.	WV1019724	S-5034-08	017	1/31/2011	Iron, Total	Monthly	1.42	1.6	13%	31	37° 49' 51"	82° 7' 28"	Copperas Mine Fk
Road Fork Development Co.	WV1019724	S-5034-08	017	3/31/2011	Aluminum, Total	Monthly	0.43	0.491	14%	31	37° 49' 51"	82° 7' 28"	Copperas Mine Fk
Road Fork Development Co.	WV1019724	S-5034-08	017	4/30/2011	Aluminum, Total	Monthly	0.43	0.533	24%	30	37° 49' 51"	82° 7' 28"	Copperas Mine Fk
Rum Creek Coal Sales, Inc.	WV1004000	U-0092-83	001	6/25/08	Aluminum, Total	Daily	0.14	0.297	112%	1	37°56'54"	82°6'1"	Browns Rn/Smokehouse Fk
Rum Creek Coal Sales, Inc.	WV1004000	U-0092-83	001	6/13/09	Aluminum, Total	Daily	0.75	0.835	11%	1	37°56'54"	82°6'1"	Browns Rn/Smokehouse Fk
Rum Creek Coal Sales, Inc.	WV1004000	U-0092-83	001	6/30/2009	Aluminum, Total	Monthly	0.43	0.835	94%	30	37°56'54"	82°6'1"	Browns Rn/Smokehouse Fk

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Rum Creek Coal Sales, Inc.	WV1020994	S-5001-04	001	6/30/2011	Aluminum, Total	Monthly	0.08	0.1453	82%	30	37°53'6"	81°54'42"	Dingess Rn
Rum Creek Coal Sales, Inc.	WV1020994	S-5001-04	006	1/31/2008	Manganese, Total	Monthly	2	2.075	4%	31	37° 53' 27"	81° 54' 59"	Mash Br
Sidney Coal Co.	KYG044490	898-5744	001	2/28/2008	Total Suspended Solids	Monthly	35	53	51%	28	37° 40' 26"	82° 22' 39"	Fraleigh Branch
Sidney Coal Co.	KYG044633	898-5743	DG5	1/31/2008	Total Suspended Solids	Monthly	35	47	34%	31	37° 41' 27"	82° 21' 33"	Big Creek
Sidney Coal Co.	KYG044793	898-5818	001	3/31/2008	Total Suspended Solids	Monthly	35	38.5	10%	31	37° 39' 50"	82° 22' 25"	Rockhouse Fork
Spartan Mining Co.	WV0057797	U501100	001	3/31/09	Aluminum, Total	Daily	0.75	0.799	7%	1	37°43'28"	81°59'45"	Island Ck
Spartan Mining Co.	WV0057797	U501100	001	3/31/2009	Aluminum, Total	Monthly	0.43	0.462	7%	31	37°43'28"	81°59'45"	Island Ck
Spartan Mining Co.	WV0095711	E007500	001	1/31/2009	Aluminum, Total	Monthly	0.43	0.44	2%	31	37°52'2"	82°24'54"	Stoncoal Br
Spartan Mining Co.	WV0095711		004	8/20/08	pH	Daily	9	9.8	9%	1	37°53'31"	82°25'19"	Tug Fk
Spartan Mining Co.	WV0095711		004	11/26/08	Aluminum, Total	Daily	0.75	0.88	17%	1	37°53'31"	82°25'19"	Tug Fk
Spartan Mining Co.	WV0095711		004	11/30/2008	Aluminum, Total	Monthly	0.43	0.69	60%	30	37°53'31"	82°25'19"	Tug Fk
Spartan Mining Co.	WV0095711		004	12/15/08	Aluminum, Total	Daily	0.75	2.61	248%	1	37°53'31"	82°25'19"	Tug Fk
Spartan Mining Co.	WV0095711		004	12/31/2008	Aluminum, Total	Monthly	0.43	1.0375	141%	31	37°53'31"	82°25'19"	Tug Fk
Spartan Mining Co.	WV0095711		004	1/21/09	Aluminum, Total	Daily	0.75	4.22	463%	1	37°53'31"	82°25'19"	Tug Fk
Spartan Mining Co.	WV0095711		004	1/22/09	Aluminum, Total	Daily	0.75	2.38	217%	1	37°53'31"	82°25'19"	Tug Fk
Spartan Mining Co.	WV0095711		004	1/31/2009	Aluminum, Total	Monthly	0.43	2.41	460%	31	37°53'31"	82°25'19"	Tug Fk
Spartan Mining Co.	WV0095711		004	2/11/09	Aluminum, Total	Daily	0.75	0.89	19%	1	37°53'31"	82°25'19"	Tug Fk
Spartan Mining Co.	WV0095711	E007500	010	2/23/09	Aluminum, Total	Daily	0.75	1.15	53%	1	37°54'6"	82°21'44"	Jennie Ck
Spartan Mining Co.	WV0095711	E007500	010	2/25/09	Aluminum, Total	Daily	0.75	1.35	80%	1	37°54'6"	82°21'44"	Jennie Ck
Spartan Mining Co.	WV0095711	E007500	010	2/27/09	Aluminum, Total	Daily	0.75	0.98	31%	1	37°54'6"	82°21'44"	Jennie Ck
Spartan Mining Co.	WV0095711	E007500	010	2/28/09	Aluminum, Total	Daily	0.75	1.71	128%	1	37°54'6"	82°21'44"	Jennie Ck
Spartan Mining Co.	WV0095711	E007500	010	2/28/2009	Aluminum, Total	Monthly	0.43	1.052	145%	28	37°54'6"	82°21'44"	Jennie Ck
Spartan Mining Co.	WV0095711	E007500	010	4/27/09	Aluminum, Total	Daily	0.75	1.4	87%	1	37°54'6"	82°21'44"	Jennie Ck
Spartan Mining Co.	WV0095711	E007500	010	4/29/09	Aluminum, Total	Daily	0.75	0.77	3%	1	37°54'6"	82°21'44"	Jennie Ck
Spartan Mining Co.	WV0095711	E007500	010	4/30/2009	Aluminum, Total	Monthly	0.43	0.6633	54%	30	37°54'6"	82°21'44"	Jennie Ck
Spartan Mining Co.	WV0095711	E007500	010	5/18/09	Aluminum, Total	Daily	0.75	1	33%	1	37°54'6"	82°21'44"	Jennie Ck
Spartan Mining Co.	WV0095711	E007500	010	5/27/09	Aluminum, Total	Daily	0.75	3.72	396%	1	37°54'6"	82°21'44"	Jennie Ck
Spartan Mining Co.	WV0095711	E007500	010	5/31/2009	Aluminum, Total	Monthly	0.43	1.14	165%	31	37°54'6"	82°21'44"	Jennie Ck
Spartan Mining Co.	WV1011138	U502398	001	6/30/08	Aluminum, Total	Daily	0.75	0.88	17%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	001	6/30/2008	Aluminum, Total	Monthly	0.43	0.56	30%	30	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	001	11/30/2008	Aluminum, Total	Monthly	0.43	0.462	7%	30	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	11/30/08	Ammonia Nitrogen	Daily	0.04	0.07	75%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	11/30/08	Ammonia Nitrogen	Daily	6	10.64	77%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	11/30/08	BOD, 5-Day 20 Deg.C	Daily	0.06	0.12	100%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	11/30/08	BOD, 5-Day 20 Deg.C	Daily	10	18.4	84%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	3/31/09	BOD, 5-Day 20 Deg.C	Daily	10	21.6	116%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	6/30/09	BOD, 5-Day 20 Deg.C	Daily	0.06	0.08	33%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	6/30/09	BOD, 5-Day 20 Deg.C	Daily	10	11.8	18%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	3/31/10	Ammonia Nitrogen	Daily	0.04	0.2186	447%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	3/31/10	Ammonia Nitrogen	Daily	6	32.76	446%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	3/31/10	BOD, 5-Day 20 Deg.C	Daily	0.06	0.0721	20%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	3/31/10	BOD, 5-Day 20 Deg.C	Daily	10	10.8	8%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	2/8/11	Ammonia Nitrogen	Daily	6	7.28	21%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	2/8/11	BOD	Daily	10	12.6	26%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	2/8/11	Dissolved Oxygen	Daily	6	9.19	53%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Spartan Mining Co.	WV1011138	U502398	401	5/3/2011	Ammonia Nitrogen	Daily	6.0000	14.56	143%	1	37°42'23"	81°59'17"	Lower Dempsey Br
Stirrat Coal Co.	WV0050865	U016183	001	6/30/2008	Aluminum, Total	Monthly	0.43	0.472333	10%	30	37°41'43"	82°1'5"	Littles Ck
Stirrat Coal Co.	WV0050865	U016183	001	6/30/2008	Aluminum, Total	Monthly	0.43	0.579	35%	30	37°41'43"	82°1'5"	Littles Ck

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Stirrat Coal Co.	WV0050865	U016183	001	7/30/08	Aluminum, Total	Daily	0.75	0.765	2%	1	37°41'43"	82°1'5"	Littles Ck
Stirrat Coal Co.	WV0050865	U016183	001	7/31/2008	Aluminum, Total	Monthly	0.43	0.5125	19%	31	37°41'43"	82°1'5"	Littles Ck
Stirrat Coal Co.	WV0050865	U016183	001	11/30/2008	Aluminum, Total	Monthly	0.43	0.576	34%	30	37°41'43"	82°1'5"	Littles Ck
Stirrat Coal Co.	WV0050865	U-161-83	001	11/29/11	Aluminum, Total	Daily	0.7500	1.6	113%	1	37°41'43"	82°1'5"	Littles Ck
Stirrat Coal Co.	WV0050865	U-161-83	001	11/30/2011	Aluminum, Total	Monthly	0.43	0.948	120%	30	37°41'43"	82°1'5"	Littles Ck
Stirrat Coal Co.	WV0066630		001	1/31/2009	Aluminum, Total	Monthly	0.43	0.446	4%	31	37°43'26"	81°59'56"	Island Creek
Stirrat Coal Co.	WV0066630		001	3/2/09	Aluminum, Total	Daily	0.75	0.85	13%	1	37°43'26"	81°59'56"	Island Creek
Stirrat Coal Co.	WV0066630		001	3/18/09	Aluminum, Total	Daily	0.75	0.825	10%	1	37°43'26"	81°59'56"	Island Creek
Stirrat Coal Co.	WV0066630		001	3/31/2009	Aluminum, Total	Monthly	0.43	0.724	68%	31	37°43'26"	81°59'56"	Island Creek
Stirrat Coal Co.	WV0066630		002	6/30/2008	Aluminum, Total	Monthly	0.43	0.5085	18%	30	37°43'30"	82°0'10"	Island Ck
Stirrat Coal Co.	WV0066630		002	4/28/10	Aluminum, Total	Daily	0.75	0.806	7%	1	37°43'30"	82°0'10"	Island Ck
Stirrat Coal Co.	WV0066630	U-3016-95	004	4/30/08	Aluminum, Total	Daily	0.75	1.4	87%	1	37°43'29"	82°0'9"	Island Ck
Stirrat Coal Co.	WV0066630	U-3016-95	004	4/30/2008	Aluminum, Total	Monthly	0.43	0.75	74%	30	37°43'29"	82°0'9"	Island Ck
Stirrat Coal Co.	WV0066630	U-3016-95	004	4/30/2010	Aluminum, Total	Monthly	0.43	0.4445	3%	30	37°43'29"	82°0'9"	Island Ck
Stirrat Coal Co.	WV0066630		013	5/31/2008	Total Suspended Solids	Monthly	35	37	6%	31	37°43'31"	82°0'17"	Island Creek
Stirrat Coal Co.	WV0066630		401	6/30/08	BOD, 5-Day 20 Deg.C	Daily	0.36	0.89	147%	1	37°43'28"	81°59'57"	Island Ck
Stirrat Coal Co.	WV0066630		401	6/30/08	Flow, in Conduit or thru plant	Daily	0.0007	0.007	900%	1	37°43'28"	81°59'57"	Island Ck
Stirrat Coal Co.	WV0066630		401	6/30/08	Nitrogen, Total	Daily	0.22	0.35	59%	1	37°43'28"	81°59'57"	Island Ck
Stirrat Coal Co.	WV0066630		401	6/30/08	Total Suspended Solids	Daily	0.36	0.58	61%	1	37°43'28"	81°59'57"	Island Ck
Stirrat Coal Co.	WV0066630		401	11/30/08	Chlorine, Total Residual	Daily	0.028	0.23	721%	1	37°43'28"	81°59'57"	Island Ck
Stirrat Coal Co.	WV0066630		401	11/30/08	Flow, in Conduit or thru plant	Daily	0.0007	0.006	757%	1	37°43'28"	81°59'57"	Island Ck
Stirrat Coal Co.	WV0066630		401	11/30/08	Total Suspended Solids	Daily	0.36	0.85	136%	1	37°43'28"	81°59'57"	Island Ck
Stirrat Coal Co.	WV0066630		401	9/30/09	Fecal Coliform	Daily	400	805	101%	1	37°43'28"	81°59'57"	Island Ck
Sycamore Fuels, Inc.	WV0000434	D003987	002	1/13/09	Aluminum, Total	Daily	0.75	0.78	4%	1	37°40'7"	82°15'2"	Sycamore Ck
Sycamore Fuels, Inc.	WV0000434	D003987	002	1/30/09	Aluminum, Total	Daily	0.75	8.52	1036%	1	37°40'7"	82°15'2"	Sycamore Ck
Sycamore Fuels, Inc.	WV0000434	D003987	002	1/31/2009	Aluminum, Total	Monthly	0.43	2.46	472%	31	37°40'7"	82°15'2"	Sycamore Ck
Sycamore Fuels, Inc.	WV0000434	D003987	002	4/6/09	Aluminum, Total	Daily	0.75	0.86	15%	1	37°40'7"	82°15'2"	Sycamore Ck
Sycamore Fuels, Inc.	WV0000434	D003987	002	4/13/09	Aluminum, Total	Daily	0.75	0.79	5%	1	37°40'7"	82°15'2"	Sycamore Ck
Sycamore Fuels, Inc.	WV0000434	D003987	002	4/17/09	Aluminum, Total	Daily	0.75	0.82	9%	1	37°40'7"	82°15'2"	Sycamore Ck
Sycamore Fuels, Inc.	WV0000434	D003987	002	4/30/2009	Aluminum, Total	Monthly	0.43	0.4657	8%	30	37°40'7"	82°15'2"	Sycamore Ck
Tennessee Consolidated Coal Company	TN0052108	2282293	001	10/31/2009	Manganese	Monthly	2	2.07	3%	31	35-19-19	85-32-24	Kelley Creek
Tennessee Consolidated Coal Company	TN0066044	2904	002	1/12/2009	Manganese	Daily	4	4.16	4%	1	35-19-26	85-29-43	Wet Weather Conveyance of UT of Stone Coalbank Creek
Tennessee Consolidated Coal Company	TN0066044	2904	002	5/31/2009	Manganese	Monthly	2	2.16	8%	31	35-19-26	85-29-43	Wet Weather Conveyance of UT of Stone Coalbank Creek
Tennessee Consolidated Coal Company	TN0066044	2904	002	2/2/2010	Manganese	Daily	4	5.27	32%	1	35-19-26	85-29-43	Wet Weather Conveyance of UT of Stone Coalbank Creek
Tennessee Consolidated Coal Company	TN0066044	2904	002	2/28/2010	Manganese	Monthly	2	4.16	108%	28	35-19-26	85-29-43	Wet Weather Conveyance of UT of Stone Coalbank Creek

Appendix A1: Legacy Massey Violations

Permittee Name	NPDES Permit	SMCRA Permit	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance Percentage	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Tennessee Consolidated Coal Company	TN0066044	2904	002	3/16/2010	Manganese	Daily	4	6.33	58%	1	35-19-26	85-29-43	Wet Weather Conveyance of UT of Stone Coalbank Creek
Tennessee Consolidated Coal Company	TN0066044	2904	002	3/31/2010	Manganese	Monthly	2	3.18	59%	31	35-19-26	85-29-43	Wet Weather Conveyance of UT of Stone Coalbank Creek
Tennessee Consolidated Coal Company	TN0066044	2904	005	1/31/2009	Manganese, Total	Monthly	2	2.02	1%	31	N 35°19'10"	W85°29'25"	Wet Weather Conveyance of Unnamed Tributary of Stone Coalbank Creek
Trace Creek Coal Co.	WV0045608	R-630	001	11/30/08	Aluminum, Total	Daily	0.75	0.776	3%	1	37°48'0"	82°5'51"	Trace Fk/Copperas Mine Fk
Trace Creek Coal Co.	WV0045608	R-630	001	11/30/2008	Aluminum, Total	Monthly	0.43	0.468	9%	30	37°48'0"	82°5'51"	Trace Fk/Copperas Mine Fk
Trace Creek Coal Co.	WV0045608	R-630	010	7/31/2008	Total Suspended Solids	Monthly	35	68	94%	31	37°48'15"	82°5'15"	Trace Fork/Copperas Mine Fork
Trace Creek Coal Co.	WV0095885		001	7/31/2010	Aluminum, Total	Monthly	0.08	0.091	14%	31	37° 48' 19"	82° 2' 59"	Ellis Camp Br
Trace Creek Coal Co.	WV0095885		001	8/31/10	Aluminum, Total	Daily	0.14	0.179	28%	1	37° 48' 19"	82° 2' 59"	Ellis Camp Br
Trace Creek Coal Co.	WV0095885		001	8/31/2010	Aluminum, Total	Monthly	0.08	0.179	124%	31	37° 48' 19"	82° 2' 59"	Ellis Camp Br
Trace Creek Coal Co.	WV0095885		002	7/31/10	Aluminum, Total	Daily	0.14	0.3	114%	1	37° 49' 12"	82° 2' 50"	Price Br
Trace Creek Coal Co.	WV0095885		002	7/31/2010	Aluminum, Total	Monthly	0.08	0.275	244%	31	37° 49' 12"	82° 2' 50"	Price Br
Trace Creek Coal Co.	WV0095885		002	8/31/2010	Aluminum, Total	Monthly	0.08	0.13	63%	31	37° 49' 12"	82° 2' 50"	Price Br
Trace Creek Coal Co.	WV0095991	S-5062-88	003	7/31/2008	Aluminum, Total	Monthly	0.43	0.51	19%	31	37°48'59"	82°2'13"	Whitman Ck
Trace Creek Coal Co.	WV0095991	S-5062-88	003	12/31/2008	Aluminum, Total	Monthly	0.43	0.466	8%	31	37°48'59"	82°2'13"	Whitman Ck
Trace Creek Coal Co.	WV0096083	U506188	001	7/31/2008	Aluminum, Total	Monthly	0.43	0.453	5%	31	37°48'24"	82°7'59"	Laurel Fk/Pigeon Ck
Trace Creek Coal Co.	WV1003712	S-117-85 / S-5041-86	003	9/12/2011	Aluminum, Total	Daily	0.7500	1.037	38%	1	37-47-34	82-03-39	Ellis Camp Branch
Trace Creek Coal Co.	WV1003712	S504186	020	8/16/10	Iron, Total	Daily	3.94	4.21	7%	1	37°48'4"	82°3'35"	Whitman Ck
Trace Creek Coal Co.	WV1003712	S504186	020	1/4/11	Iron, Total	Daily	3.94	4.4	12%	1	37°48'4"	82°3'35"	Whitman Ck
Trace Creek Coal Co.	WV1003712	O504286	036	3/31/08	pH	Daily	9	70	678%	1	37°48'42"	82°3'49"	Trace Fk/Copperas Mine Fk
Trace Creek Coal Co.	WV1003712	O504286	036	5/31/08	Aluminum, Total	Daily	0.75	1.1	47%	1	37°48'42"	82°3'49"	Trace Fk/Copperas Mine Fk
Trace Creek Coal Co.	WV1003712	O504286	036	5/31/2008	Aluminum, Total	Monthly	0.43	0.783	82%	31	37°48'42"	82°3'49"	Trace Fk/Copperas Mine Fk
Trace Creek Coal Co.	WV1003712	S-117-85 / S-5041-86	036	4/5/2012	Iron, Total	Daily	3.1500	3.38	7%	1	37°48'42"	82°3'49"	Trace Fk/Copperas Mine Fk

Appendix A2: Legacy Alpha Violations

Claim One: Violations of NPDES Permits

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Alpha PA Coal Terminal, LLC	PA0235920	26081601	002	12/31/2012	Total Suspended Solids	Monthly	35	56.5	61.43%	31	40-00-31	79-59-32	UNT to Monongahela River
Amfire Mining Company, LLC	PA0213683	32850701	006	12/5/2008	Alkalinity>Acidity	Daily	Alk>Acid	Acid=18, Alk=1		1	40-41-01	79-00-21	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	006	12/5/2008	pH	Daily	>6	4.72	21.33	1	40-41-01	79-00-21	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	006	9/29/2009	pH	Daily	>6	4.64	22.67	1	40-41-01	79-00-21	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	006	9/29/2009	Alkalinity>Acidity	Daily	Alk>Acid	Acid=57, Alk=2.2		1	40-41-01	79-00-21	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	006	12/16/2010	pH	Daily	>6	3.2	46.67	1	40-41-01	79-00-21	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	006	8/8/2012	pH	Daily	9	9.26	2.89%	1	40° 41' 01"	79° 00' 21"	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	006	12/8/2012	Total Suspended Solids	Monthly	35	96	174.29%	31	40° 41' 01"	79° 00' 21"	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	006	12/10/2012	Total Suspended Solids	Daily	70	96	37.14%	1	40° 41' 01"	79° 00' 21"	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	007	12/10/2012	pH	Daily	9	9.13	1.44%	1	40° 41' 04"	78° 59' 59"	U.T. to Buck Run
Amfire Mining Company, LLC	PA0213683	32850701	009	8/16/2011	pH	Daily	<9	9.72	8.00	1	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	9/23/2011	Iron	Daily	6	55.66	827.67	1	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	9/23/2011	Manganese	Daily	4	60.32	1408.00	1	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	9/23/2011	pH	Daily	>6	5.65	5.83	1	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	9/23/2011	Alkalinity>Acidity	Daily	Alk>Acid	Acid=116, Alk=11.8		1	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	9/30/2011	Iron	Monthly	3	30.6	920.00	30	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	9/30/2011	Manganese	Monthly	2	31.3	1465.00	30	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	10/8/2011	Manganese	Daily	4	12.75	218.75	1	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	10/21/2011	Manganese	Daily	4	14.45	261.25	1	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	10/31/2011	Manganese	Monthly	2	13.6	580.00	31	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	11/12/2011	Manganese	Daily	4	22.06	451.50	1	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	11/18/2011	Manganese	Daily	4	29.98	649.50	1	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	11/30/2011	Manganese	Monthly	2	26.02	1201.00	30	40-41-08	79-00-14	U.T. to Dixon Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0213683	32850701	009	12/7/2011	Manganese	Daily	4	34.18	754.50	1	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0213683	32850701	009	12/31/2011	Manganese	Monthly	2	34.18	1609.00	31	40-41-08	79-00-14	U.T. to Dixon Run
Amfire Mining Company, LLC	PA0214604	33901602	001	12/17/2008	pH	Daily	>6	3.0	50.00	1	41-14-32	78-46-21	U.T. to Little Toby Creek
Amfire Mining Company, LLC	PA0214604	33901602	001	4/28/2009	pH	Daily	<9	9.8	8.89	1	41-14-32	78-46-21	U.T. to Little Toby Creek
Amfire Mining Company, LLC	PA0214604	33901602	001	5/15/2009	Iron	Daily	7	24.9	255.71	1	41-14-32	78-46-21	U.T. to Little Toby Creek
Amfire Mining Company, LLC	PA0214604	33901602	001	5/15/2009	pH	Daily	>6	3.2	46.67	1	41-14-32	78-46-21	U.T. to Little Toby Creek
Amfire Mining Company, LLC	PA0214604	33901602	001	6/15/2009	Iron	Daily	7	8.23	17.57	1	41-14-32	78-46-21	U.T. to Little Toby Creek
Amfire Mining Company, LLC	PA0214604	33901602	001	6/15/2009	pH	Daily	>6	4	33.33	1	41-14-32	78-46-21	U.T. to Little Toby Creek
Amfire Mining Company, LLC	PA0214604	33901602	001	5/15/2010	pH	Daily	<9	9.3	3.33	1	41-14-32	78-46-21	U.T. to Little Toby Creek
Amfire Mining Company, LLC	PA0214604	33901602	001	11/15/2010	pH	Daily	<9	9.9	10.00	1	41-14-32	78-46-21	U.T. to Little Toby Creek
Amfire Mining Company, LLC	PA0214604	33901602	001	2/14/2012	pH	Daily	9	9.1	1.11%	1	41-14-32	78-46-21	U.T. to Little Toby Creek
Amfire Mining Company, LLC	PA0214949	32961302	001	9/4/2008	Settleable Solids	Daily	0.5	2.5	400	1	40-33-40	79-05-43	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	001	11/12/2012	Settleable Solids	Monthly	0.3	0.5	66.67%	30	40-33-40	79-05-43	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	001	12/12/2012	Settleable Solids	Monthly	0.3	0.7	133.33%	31	40-33-40	79-05-43	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	001	12/17/2012	Settleable Solids	Daily	0.5	0.7	40.00%	1	40-33-40	79-05-43	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	001	3/11/2013	Iron	Daily	3	3.25	8%	1	40° 33' 50"	79° 05' 43"	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	003	4/30/2008	Settleable Solids	Daily	0.5	1.00	100	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/6/2006	Sulfates	Daily	500	528.7	5.74	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/6/2006	Sulfates	Monthly	250	569.8	127.92	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/8/2006	Iron	Daily	3	10.61	253.67	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/8/2006	Manganese	Daily	2	2.25	12.50	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/8/2006	Sulfates	Daily	500	529.3	5.86	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/28/2006	Iron	Monthly	1.5	5.55	270.00	28	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/28/2006	Manganese	Monthly	1	1.18	18.00	28	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/28/2006	Sulfates	Monthly	250	499.45	99.78	28	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/7/2006	Sulfates	Daily	500	573.8	14.76	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/28/2006	Sulfates	Daily	500	586.4	17.28	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/28/2006	Sulfates	Monthly	250	580.1	132.04	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/13/2006	Sulfates	Daily	500	572.6	14.52	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/13/2006	Sulfates	Monthly	250	572.6	129.04	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/10/2006	Manganese	Monthly	1	1.03	3.00	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/10/2006	Sulfates	Daily	500	576.3	15.26	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/10/2006	Sulfates	Monthly	250	576.3	130.52	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/1/2006	Sulfates	Daily	500	580.7	16.14	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/14/2006	Sulfates	Daily	500	585.2	17.04	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/14/2006	Sulfates	Monthly	250	582.95	133.18	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/24/2006	Sulfates	Daily	500	1410	182.00	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/24/2006	Sulfates	Monthly	250	930.2	272.08	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/9/2006	Sulfates	Daily	500	987.3	97.46	1	40-33-40	79-05-21	Ferrier Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0214949	32961302	004	8/25/2006	Sulfates	Daily	500	935.8	87.16	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/25/2006	Sulfates	Monthly	250	961.55	284.62	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/5/2006	Sulfates	Daily	500	838.2	67.64	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/25/2006	Sulfates	Daily	500	696.1	39.22	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/25/2006	Sulfates	Monthly	250	767.15	206.86	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/4/2006	Sulfates	Daily	500	711.6	42.32	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/30/2006	Sulfates	Daily	500	601.8	20.36	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/30/2006	Sulfates	Monthly	250	656.7	162.68	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/7/2006	Sulfates	Daily	500	571.5	14.30	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/15/2006	Sulfates	Daily	500	545.8	9.16	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/15/2006	Sulfates	Monthly	250	558.65	123.46	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/27/2006	Sulfates	Monthly	250	488.85	95.54	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/23/2007	Manganese	Monthly	1	1.185	18.50	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/23/2007	Sulfates	Monthly	250	474.85	89.94	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/19/2007	Sulfates	Monthly	250	436.6	74.64	28	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/13/2007	Sulfates	Monthly	250	323.05	29.22	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/11/2007	Sulfates	Monthly	250	259.7	3.88	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/1/2007	Sulfates	Daily	500	568.6	13.72	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/10/2007	Sulfates	Monthly	250	541.95	116.78	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/17/2007	Sulfates	Daily	500	515.3	3.06	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/1/2007	Sulfates	Daily	500	644.1	28.82	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/9/2007	Sulfates	Monthly	250	652.3	160.92	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/12/2007	Sulfates	Daily	500	660.5	32.10	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/8/2007	Sulfates	Monthly	250	573.6	129.44	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/9/2007	Sulfates	Daily	500	638.9	27.78	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/17/2007	Sulfates	Daily	500	571.3	14.26	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/24/2007	Sulfates	Daily	500	527.5	5.50	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/31/2007	Sulfates	Daily	500	556.7	11.34	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/6/2007	Sulfates	Daily	500	527.5	5.50	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/7/2007	Sulfates	Monthly	250	548.5	119.40	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/12/2007	Sulfates	Daily	500	587.7	17.54	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/20/2007	Sulfates	Daily	500	500.2	0.04	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/28/2007	Sulfates	Daily	500	578.6	15.72	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/5/2007	pH	Daily	<9	9.47	5.22	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/5/2007	Sulfates	Monthly	250	457.78	83.11	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/10/2007	Sulfates	Daily	500	514.8	2.96	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/17/2007	Sulfates	Daily	500	602.3	20.46	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/3/2007	Sulfates	Daily	500	529.4	5.88	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/5/2007	Sulfates	Monthly	250	500.2	100.08	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/25/2007	Sulfates	Daily	500	565.8	13.16	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/4/2007	Sulfates	Monthly	250	573.9	129.56	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/7/2007	Sulfates	Daily	500	547.4	9.48	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/12/2007	Sulfates	Daily	500	574.7	14.94	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/20/2007	Sulfates	Daily	500	592.8	18.56	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/28/2007	Sulfates	Daily	500	600.4	20.08	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/6/2007	Sulfates	Daily	500	513	2.60	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/27/2007	Sulfates	Daily	500	593.6	18.72	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/27/2007	Sulfates	Monthly	250	553.3	121.32	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/3/2008	Sulfates	Daily	500	593.6	18.72	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/28/2008	pH	Daily	<9	9.2	2.22	1	40-33-40	79-05-21	Ferrier Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0214949	32961302	004	1/28/2008	Sulfates	Daily	500	536.6	7.32	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/28/2008	Sulfates	Monthly	250	565.1	126.04	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/12/2008	Sulfates	Daily	500	503.9	0.78	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/19/2008	pH	Daily	<9	9.12	1.33	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/19/2008	Sulfates	Daily	500	520.2	4.04	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/29/2008	Sulfates	Monthly	250	512.05	104.82	29	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/7/2008	pH	Daily	<9	9.37	4.11	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/7/2008	Sulfates	Daily	500	572.2	14.44	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/31/2008	Iron	Daily	3	5.15	71.67	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/31/2008	Iron	Monthly	1.5	2.84	89.33	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/31/2008	pH	Daily	<9	9.35	3.89	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/31/2008	Sulfates	Daily	500	581.4	16.28	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/31/2008	Sulfates	Monthly	250	576.8	130.72	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/31/2008	Total Suspended Solids	Daily	70	100	42.86	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/31/2008	Total Suspended Solids	Monthly	35	52	48.57	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/22/2008	Iron	Monthly	1.5	2.8	86.67	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/22/2008	Sulfates	Daily	500	524.5	4.90	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/30/2008	Iron	Daily	3	3.83	27.67	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/30/2008	Sulfates	Daily	500	542.8	8.56	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/30/2008	Sulfates	Monthly	250	533.65	113.46	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/30/2008	Total Suspended Solids	Daily	70	80	14.29	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/30/2008	Total Suspended Solids	Monthly	35	50	42.86	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/20/2008	Sulfates	Daily	500	535.5	7.10	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/20/2008	Sulfates	Monthly	250	535.5	114.20	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/21/2008	pH	Daily	<9	10.58	17.56	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/21/2008	Sulfates	Daily	500	549.8	9.96	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/21/2008	Sulfates	Monthly	250	476.55	90.62	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/31/2008	pH	Daily	<9	10.51	16.78	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/31/2008	Sulfates	Monthly	250	391.4	56.56	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/18/2008	pH	Daily	<9	10.92	21.33	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/18/2008	Sulfates	Monthly	250	357.1	42.84	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/4/2008	Sulfates	Monthly	250	393.85	57.54	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/27/2008	Sulfates	Monthly	250	414.15	65.66	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/26/2008	Sulfates	Monthly	250	409.7	63.88	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/15/2008	Sulfates	Daily	500	644.4	28.88	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/22/2008	Aluminum	Daily	1	1.27	27.00	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/22/2008	Aluminum	Monthly	0.5	0.685	37.00	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/22/2008	Iron	Daily	3	20.68	589.33	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/22/2008	Iron	Monthly	1.5	10.795	619.67	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/22/2008	Manganese	Monthly	1	1.565	56.50	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/22/2008	pH	Daily	<6	3.47	42.17	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/22/2008	Sulfates	Daily	500	706.7	41.34	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/22/2008	Sulfates	Monthly	250	675.55	170.22	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/22/2008	Alkalinity>Acidity	Daily	Alk>Acid	Acid=40.5, Alk=<1.0		1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/9/2009	Sulfates	Daily	500	593.0	18.6	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/20/2009	Iron	Monthly	1.5	1.615	7.67	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/20/2009	Sulfates	Daily	500	541.6	8.32	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/20/2009	Sulfates	Monthly	250	567.3	126.92	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/18/2009	Sulfates	Daily	500	523.8	4.76	1	40-33-40	79-05-21	Ferrier Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0214949	32961302	004	2/24/2009	Sulfates	Daily	500	539.6	7.92	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/24/2009	Sulfates	Monthly	250	531.7	112.68	28	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/11/2009	Sulfates	Daily	500	650.3	30.06	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/26/2009	Sulfates	Daily	500	537.6	7.52	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/26/2009	Sulfates	Monthly	250	593.95	137.58	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/28/2009	pH	Daily	<9	9.62	6.89	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/28/2009	Sulfates	Monthly	250	464	85.60	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/1/2009	pH	Daily	<9	9.85	9.44	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/1/2009	Sulfates	Monthly	250	578.55	131.42	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/22/2009	Sulfates	Daily	500	695.8	39.16	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/15/2009	Sulfates	Monthly	250	379.7	51.88	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/19/2009	Sulfates	Daily	500	601.0	20.2	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/11/2009	Sulfates	Daily	500	689.8	37.96	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/24/2009	Sulfates	Daily	500	593.3	18.66	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/24/2009	Sulfates	Monthly	250	375.85	50.34	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/15/2009	Sulfates	Daily	500	538.1	7.62	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/29/2009	Sulfates	Daily	500	590.4	18.08	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/29/2009	Sulfates	Monthly	250	564.25	125.70	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/27/2010	Sulfates	Daily	500	610.9	22.18	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/29/2010	Sulfates	Daily	500	615.2	23.04	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/29/2010	Sulfates	Monthly	250	549.8	119.92	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/12/2010	Iron	Daily	3	9.31	210.33	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/12/2010	Sulfates	Daily	500	674.1	34.82	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/25/2010	Iron	Monthly	1.5	4.9	226.67	28	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/25/2010	Sulfates	Daily	500	587.1	17.42	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/25/2010	Sulfates	Monthly	250	630.6	152.24	28	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/11/2010	Sulfates	Daily	500	704.5	40.90	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/25/2010	Sulfates	Daily	500	643.2	28.64	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/25/2010	Sulfates	Monthly	250	673.85	169.54	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/10/2010	pH	Daily	<9	9.11	1.22	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/10/2010	Sulfates	Daily	500	582.60	16.52	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/25/2010	pH	Daily	<9	9.33	3.67	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/25/2010	Sulfates	Daily	500	627.90	25.58	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/25/2010	Sulfates	Monthly	250	605.25	142.10	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/10/2010	pH	Daily	<9	9.14	1.56	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/10/2010	Sulfates	Daily	500	576.10	15.22	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/25/2010	pH	Daily	<9	9.29	3.22	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/25/2010	Sulfates	Daily	500	576.10	15.22	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/25/2010	Sulfates	Monthly	250	576.1	130.44	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/10/2010	Sulfates	Daily	500	518.90	3.78	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/25/2010	Sulfates	Daily	500	628.60	25.72	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/25/2010	Sulfates	Monthly	250	573.75	129.50	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/25/2010	Sulfates	Monthly	250	451.7	80.68	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/25/2010	Sulfates	Monthly	250	443.1	77.24	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/20/2010	pH	Daily	<9	9.62	6.89	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/20/2010	Sulfates	Daily	500	727.20	45.44	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/25/2010	Sulfates	Monthly	250	595.4	138.16	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/8/2010	Sulfates	Daily	500	633.40	26.68	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/14/2010	Sulfates	Daily	500	738.90	47.78	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/25/2010	Sulfates	Monthly	250	686.15	174.46	31	40-33-40	79-05-21	Ferrier Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0214949	32961302	004	11/25/2010	Sulfates	Monthly	250	346.8	38.72	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/10/2011	pH	Daily	<9	9.39	4.33	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/25/2011	pH	Daily	<9	10.29	14.33	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/25/2011	Sulfates	Monthly	250	390.9	56.36	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/28/2011	Sulfates	Monthly	250	413.65	65.46	28	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/15/2011	Sulfates	Daily	500	584.10	16.82	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/30/2011	Sulfates	Daily	500	536.50	7.3	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/30/2011	Sulfates	Monthly	250	560.3	124.12	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/11/2011	Sulfates	Daily	500	514.8	2.96	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/30/2011	Sulfates	Monthly	250	501.5	100.60	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/31/2011	Sulfates	Monthly	250	467.25	86.90	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/30/2011	Sulfates	Monthly	250	454.3	81.72	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/16/2011	pH	Daily	<9	11.48	27.56	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/16/2011	Sulfates	Daily	500	603.5	20.7	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/24/2011	pH	Daily	<9	10.26	14.00	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/24/2011	Sulfates	Daily	500	1093.7	118.74	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/31/2011	Sulfates	Monthly	250	848.6	239.44	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/10/2011	pH	Daily	<9	10.26	14.00	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/10/2011	Sulfates	Daily	500	756.5	51.3	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/22/2011	Sulfates	Daily	500	909.4	81.88	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	9/30/2011	Sulfates	Monthly	250	832.95	233.18	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/7/2011	Sulfates	Daily	500	818.6	63.72	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/21/2011	Sulfates	Daily	500	831.9	66.38	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	10/31/2011	Sulfates	Monthly	250	825.25	230.10	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/4/2011	Sulfates	Daily	500	912.3	82.46	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/18/2011	Sulfates	Daily	500	671.7	34.34	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	11/30/2011	Sulfates	Monthly	250	792	216.80	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/7/2011	Sulfates	Daily	500	795.10	59.02	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	12/31/2011	Sulfates	Monthly	250	795.1	218.04	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/12/2012	Sulfates	Monthly	250	768.4	207.36%	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/18/2012	pH	Daily	9	9.52	5.78%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/18/2012	Sulfates	Daily	500	689.7	37.94%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	1/26/2012	Sulfates	Daily	500	847.1	69.42%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/2/2012	Sulfates	Daily	500	772.6	54.52%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/12/2012	Iron	Monthly	1.5	1.815	21.00%	29	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/12/2012	Sulfates	Monthly	250	738.05	195.22%	29	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	2/18/2012	Sulfates	Daily	500	703.5	40.70%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/2/2012	Sulfates	Daily	500	537.3	7.46%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/9/2012	Sulfates	Daily	500	702.4	40.48%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	3/12/2012	Sulfates	Monthly	250	619.9	147.96%	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/5/2012	Sulfates	Daily	500	712	42.40%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/12/2012	Sulfates	Monthly	250	702	180.80%	30	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/20/2012	pH	Daily	9	9.18	2.00%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	4/20/2012	Sulfates	Daily	500	691	38.20%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/4/2012	pH	Daily	9	10.09	12.11%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/4/2012	Sulfates	Daily	500	642.8	28.56%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/12/2012	pH	Daily	9	9.13	1.44%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/12/2012	Sulfates	Daily	500	695.5	39.10%	1	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	5/31/2012	Sulfates	Monthly	250	669.15	167.66%	31	40-33-40	79-05-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/8/2012	Sulfates	Daily	500	749.4	49.88%	1	40° 33' 40"	79° 05' 21"	Ferrier Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0214949	32961302	004	6/12/2012	Sulfates	Monthly	250	717.5	187.00%	30	40° 33' 40"	79° 05' 21"	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	6/23/2012	Sulfates	Daily	500	685.6	37.12%	1	40° 33' 40"	79° 05' 21"	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/2/2012	Sulfates	Daily	500	812.4	62.48%	1	40° 33' 40"	79° 05' 21"	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/9/2012	Sulfates	Daily	500	780.4	56.08%	1	40° 33' 40"	79° 05' 21"	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	7/12/2012	Sulfates	Monthly	250	796.4	218.56%	31	40° 33' 40"	79° 05' 21"	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/6/2012	Sulfates	Daily	500	780.9	56.18%	1	40° 33' 40"	79° 05' 21"	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/12/2012	Sulfates	Monthly	250	786.3	214.51%	31	40° 33' 40"	79° 05' 21"	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/12/2012	Manganese	Monthly	1	1.23	23.00%	31	40° 33' 40"	79° 05' 21"	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/13/2012	Sulfates	Daily	500	791.7	58.34%	1	40° 33' 40"	79° 05' 21"	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	004	8/20/2012	Sulfates	Daily	500	668.9	34%	1	40-33-44	79-5-21	Ferrier Run
Amfire Mining Company, LLC	PA0214949	32961302	005	12/12/2012	Aluminum	Monthly	0.75	0.78	4.00%	31	40° 33' 43"	79° 05' 14"	Ferrier Run
Amfire Mining Company, LLC	PA0215031	33971301	001	9/30/2008	Total Suspended Solids	Monthly	35	62.5	78.57	30	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	10/31/2008	Total Suspended Solids	Monthly	35	39.5	12.86	31	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	11/26/2008	Total Suspended Solids	Daily	70	71	1.43	1	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	11/26/2008	Total Suspended Solids	Monthly	35	41.5	18.57	30	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	11/26/2010	Aluminum	Daily	2	2.57	28.50	1	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	11/26/2010	Aluminum	Daily	2	3.13	56.50	1	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	11/26/2010	Aluminum	Monthly	0.8	2.85	256.25	30	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	11/26/2010	Total Suspended Solids	Monthly	35	57.5	64.29	30	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	1/15/2011	Aluminum	Daily	1.6	1.99	24.38%	1	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	1/31/2011	Aluminum	Monthly	0.8	1.795	124.38	31	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	1/31/2011	Total Suspended Solids	Monthly	35	43	22.86	31	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	2/28/2011	Aluminum	Daily	2	2.41	20.50	1	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	2/28/2011	Aluminum	Monthly	0.8	1.6	100.00	28	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	3/25/2011	Total Suspended Solids	Monthly	35	51	45.71	31	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	4/12/2011	Aluminum	Daily	1.6	1.64	2.50	1	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	4/30/2011	Aluminum	Monthly	0.8	1.64	105.00	30	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	5/31/2011	Total Suspended Solids	Monthly	35	40.5	15.71	31	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	6/30/2011	Aluminum	Monthly	0.8	0.88	10.00	30	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	001	8/16/2011	Aluminum	Daily	1.6	1.87	16.88	1	40-55-08	79-04-36	Mahoning Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0215031	33971301	001	8/31/2011	Aluminum	Monthly	0.8	1.135	41.88	31	40-55-08	79-04-36	Mahoning Creek
Amfire Mining Company, LLC	PA0215031	33971301	002	4/25/2011	Iron	Daily	7	10	42.86	1	40-55-13	79-04-47	Mahoning Creek
Amfire Mining Company, LLC	PA0215091	03971301	002	5/15/2010	Settleable Solids	Daily	0.5	12	2300	1	40-35-14	79-23-37	U.T. to Whiskey Run
Amfire Mining Company, LLC	PA0215228	32991301	002	3/31/2006	Total Dissolved Solids	Monthly	500	516	3.20	31	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	9/13/2007	Total Dissolved Solids	Monthly	500	503	0.60	30	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	10/12/2007	Total Dissolved Solids	Monthly	500	559	11.80	31	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	11/11/2007	Total Dissolved Solids	Monthly	500	560	12.00	30	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	12/10/2007	Total Dissolved Solids	Daily	750	774	3.20	1	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	12/10/2007	Total Dissolved Solids	Monthly	500	822	64.40	31	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	12/31/2007	Total Dissolved Solids	Daily	750	870	16.00	1	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	1/9/2008	Total Dissolved Solids	Daily	750	801	6.80	1	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	1/9/2008	Total Dissolved Solids	Monthly	500	961	92.20	31	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	1/31/2008	Total Dissolved Solids	Daily	750	1121	49.47	1	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	2/8/2008	Total Dissolved Solids	Daily	750	1187	58.27	1	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	2/28/2008	Total Dissolved Solids	Monthly	500	965	93.00	29	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	7/31/2009	Total Dissolved Solids	Monthly	500	536.5	7.30	31	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	10/8/2012	Aluminum	Daily	1	1.74	74.00%	1	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	002	10/12/2012	Aluminum	Monthly	0.5	0.57	14.00%	31	40-33-15	78-58-30	Little Yellow Creek
Amfire Mining Company, LLC	PA0215228	32991301	003	3/11/2013	Total Suspended Solids	Monthly	35	36.5	4%	31	40° 38' 48"	78° 58' 34"	UNT Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	007	5/2/2012	Aluminum	Monthly	0.481	2.4166	402%	31	40-38-48	78-58-34	UT To Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	007	5/2/2012	Aluminum	Daily	0.962	5.95	519%	1	40-38-48	78-58-34	UT To Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	007	8/6/2012	Aluminum	Daily	0.962	1.82	89.19%	1	40° 33' 40"	78° 58' 34"	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	007	8/12/2012	Aluminum	Monthly	0.481	1	107.90%	31	40° 33' 40"	78° 58' 34"	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	007	9/12/2012	Aluminum	Monthly	0.481	1.01	109.98%	30	40° 33' 40"	78° 58' 34"	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	007	9/24/2012	Aluminum	Daily	0.962	1.01	4.99%	1	40° 33' 40"	78° 58' 34"	U.T. to Laurel Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0215228	32991301	007	10/12/2012	Aluminum	Monthly	0.481	0.86	78.79%	31	40° 33' 40"	78° 58' 34"	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	007	10/27/2012	Aluminum	Daily	0.962	2.18	126.61%	1	40° 33' 40"	78° 58' 34"	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	007	11/19/2012	Aluminum	Daily	0.962	1.09	13.31%	1	40° 33' 40"	78° 58' 34"	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	007	2/11/2013	Aluminum	Monthly	0.5	0.545	9%	28	40° 38' 48"	78° 58' 34"	UNT Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	008	1/12/2012	Total Dissolved Solids	Monthly	2000	2172	8.60%	31	40-33-31	78-58-30	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	008	2/12/2012	Total Dissolved Solids	Monthly	2000	2093.5	4.68%	29	40-33-31	78-58-30	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	008	3/12/2012	Total Dissolved Solids	Monthly	2000	2155.5	7.78%	31	40-33-31	78-58-30	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	008	8/12/2012	Total Dissolved Solids	Monthly	2000	2197	9.85%	31	40° 33' 31"	78° 58' 30"	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	008	8/12/2012	Iron	Monthly	1.5	2.14	42.67%	31	40° 33' 31"	78° 58' 30"	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	008	8/13/2012	Iron	Daily	2.34	2.54	8.55%	1	40° 33' 31"	78° 58' 30"	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	008	9/12/2012	Manganese	Monthly	0.64	0.65	1.56%	30	40° 33' 31"	78° 58' 30"	U.T. to Laurel Run
Amfire Mining Company, LLC	PA0215228	32991301	008	1/2/2013	Iron	Daily	2.3	2.43	6%	1	40-33-31	78-59-26	UT To Laurel Run
Amfire Mining Company, LLC	PA0234192	56960106	006	2/4/2013	Manganese	Daily	4	5.6	40%	1	40° 06' 33"	79° 08' 53"	NB of Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	006	2/19/2013	Manganese	Monthly	2	4.025	101%	28	40° 06' 33"	79° 08' 53"	NB of Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	006	3/2/2013	Manganese	Monthly	2	3.175	59%	31	40° 06' 33"	79° 08' 53"	NB of Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	006	3/18/2013	Manganese	Daily	4	5.8	45%	1	40° 06' 33"	79° 08' 53"	NB of Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	007	7/3/2006	pH	Daily	<6	5.63	6.17	1	40-06-33	79-08-50	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	007	7/3/2006	Alkalinity>Acidity	Daily	Alk>Acid	Acid=13.0, Alk=4.8		1	40-06-33	79-08-50	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	007	11/3/2011	pH	Daily	<6	5.92	1.33	1	40-06-33	79-08-50	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	1/5/2007	Alkalinity>Acidity	Daily	Alk>Acid	Acid=9, Alk=2.3		1	40-06-33	79-08-53	NB Quemahoning Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0234192	56960106	008	1/5/2007	pH	Daily	>6	4.8	20	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	2/1/2007	Alkalinity>Acidity	Daily	Alk>Acid	Acid=19.5, Alk=4.3		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	2/1/2007	pH	Daily	>6	5.7	5	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	3/2/2007	Alkalinity>Acidity	Daily	Alk>Acid	Acid=12.5, Alk=4.3		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	3/2/2007	pH	Daily	>6	5.71	4.83	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	4/4/2007	Alkalinity>Acidity	Daily	Alk>Acid	Acid=14, Alk=3		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	4/4/2007	pH	Daily	>6	5.1	15.00	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	5/1/2007	Alkalinity>Acidity	Daily	Alk>Acid	Acid=22.5, Alk=3		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	5/1/2007	pH	Daily	>6	5.23	12.83	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	6/5/2007	Alkalinity>Acidity	Daily	Alk>Acid	Acid=24.0, Alk=4.3		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	6/5/2007	pH	Daily	>6	5.76	4.00	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	12/3/2007	Alkalinity>Acidity	Daily	Alk>Acid	Acid=26, Alk=4.0		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	12/3/2007	pH	Daily	>6	5.92	1.33	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	1/8/2008	Alkalinity>Acidity	Daily	Alk>Acid	Acid=27, Alk=3.0		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	2/29/2008	Alkalinity>Acidity	Daily	Alk>Acid	Acid=34, Alk=3.0		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	3/7/2008	Alkalinity>Acidity	Daily	Alk>Acid	Acid=33, Alk=2.0		1	40-06-33	79-08-53	NB Quemahoning Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0234192	56960106	008	6/30/2008	Alkalinity>Acidity	Daily	Alk>Acid	Acid=24.7, Alk=5.5		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	5/27/2009	Alkalinity>Acidity	Daily	Alk>Acid	Acid=7.5, Alk=5.0		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	6/3/2009	Alkalinity>Acidity	Daily	Alk>Acid	Acid=6.5, Alk=4.5		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	3/1/2010	Alkalinity>Acidity	Daily	Alk>Acid	Acid=5.0, Alk=4.8		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	3/1/2010	pH	Daily	<6	5.8	3.33	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	4/27/2010	pH	Daily	<6	5.88	2.00	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	5/26/2010	Alkalinity>Acidity	Daily	Alk>Acid	Acid=13.4, Alk=4.0		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	3/3/2011	pH	Daily	<6	5.9	1.67	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	3/3/2011	pH	Daily	<6	5.94	1.00	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	4/20/2011	Alkalinity>Acidity	Daily	Alk>Acid	Acid=6.5, Alk=4.0		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	4/20/2011	pH	Daily	<6	5.88	2.00	1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	5/19/2011	Alkalinity>Acidity	Daily	Alk>Acid	Acid=8.3, Alk=4.8		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	6/8/2011	Alkalinity>Acidity	Daily	Alk>Acid	Acid=6.0, Alk=4.8		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	10/3/2011	Alkalinity>Acidity	Daily	Alk>Acid	Acid=16.9, Alk=6.6		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	11/3/2011	Alkalinity>Acidity	Daily	Alk>Acid	Acid=20.7, Alk=4.3		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	11/3/2011	pH	Daily	<6	5.47	8.83	1	40-06-33	79-08-53	NB Quemahoning Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0234192	56960106	008	12/1/2011	Alkalinity>Acidity	Daily	Alk>Acid	Acid=26.3, Alk=4.7		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	2/8/2012	Alkalinity>Acidity	Daily	Alk>Acid	Acid=16.9		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	3/1/2012	Alkalinity>Acidity	Daily	Alk>Acid	Acid=16		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	4/2/2012	Alkalinity>Acidity	Daily	Alk>Acid	Acid=14.1		1	40-06-33	79-08-53	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	5/31/2012	Acidity	Daily	0	5.6		1	40-6-23	79-9-19	UT Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	6/7/2012	Alkalinity>Acidity	Monthly	Alk>Acid	9.7>6.2		30	40-06-33	79-08-53	NB of Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	1/3/2013	Manganese	Monthly	2	2.05	2.50%	31	40-06-33	79-08-53	NB of Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	2/4/2013	Manganese	Monthly	2	4.4	120%	28	40° 06' 33"	79° 08' 50"	NB Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	2/4/2013	Manganese	Daily	4	4.4	10%	1	40° 06' 33"	79° 08' 50"	NB of Quemahoning Creek
Amfire Mining Company, LLC	PA0234192	56960106	008	3/1/2013	Manganese	Monthly	2	2.35	18%	31	40° 06' 33"	79° 08' 50"	NB of Quemahoning Creek
Amfire Mining Company, LLC	PA0235075	11990102	009	6/4/2007	Alkalinity>Acidity	Daily	Alk>Acid	Acid=30.0, Alk=13		1	40-21-40	78-48-46	Little Conemaugh River
Amfire Mining Company, LLC	PA0235075	11990102	009	1/16/2008	Alkalinity>Acidity	Daily	Alk>Acid	Acid=22.5, Alk=10		1	40-21-40	78-48-46	Little Conemaugh River
Amfire Mining Company, LLC	PA0235075	11990102	009	2/18/2008	Alkalinity>Acidity	Daily	Alk>Acid	Acid=13.8, Alk=3.0		1	40-21-40	78-48-46	Little Conemaugh River
Amfire Mining Company, LLC	PA0235075	11990102	009	3/24/2008	Alkalinity>Acidity	Daily	Alk>Acid	Acid=3.5, Alk=2.0		1	40-21-40	78-48-46	Little Conemaugh River
Amfire Mining Company, LLC	PA0235075	11990102	009	3/19/2009	Alkalinity>Acidity	Daily	Alk>Acid	Acid=18.7, Alk=7.3		1	40-21-40	78-48-46	Little Conemaugh River
Amfire Mining Company, LLC	PA0235075	11990102	009	4/28/2009	Alkalinity>Acidity	Daily	Alk>Acid	Acid=9.0, Alk=3.3		1	40-21-40	78-48-46	Little Conemaugh River
Amfire Mining Company, LLC	PA0235377	11841603	005	2/29/2012	Total Suspended Solids	Monthly	35	45	29%	29	40-23-39	78-39-25	UT to Spring Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0235377	11841603	005	6/12/2012	Total Suspended Solids	Monthly	35	118	237.14%	30	40° 23' 39"	78° 39' 25"	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235377	11841603	005	6/13/2012	Total Suspended Solids	Daily	70	118	68.57%	1	40° 23' 39"	78° 39' 25"	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235377	11841603	006	8/6/2012	Total Suspended Solids	Daily	70	87	24.29%	1	40-23-36	78-39-25	UT to Spring Run
Amfire Mining Company, LLC	PA0235521	32011302	001	4/9/2009	Sulfates	Daily	2800	3339.7	19.28	1	40-32-58	78-59-31	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	001	4/9/2009	Sulfates	Monthly	1400	3339.7	138.55	30	40-32-58	78-59-31	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	003	12/2/2011	Total Suspended Solids	Daily	70	89	27.14	1	40-32-56	78-59-51	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	003	12/31/2011	Total Suspended Solids	Monthly	35	55.5	58.57	31	40-32-56	78-59-51	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	003	2/2/2012	Total Suspended Solids	Daily	70	131	87.14%	1	40-32-56	78-59-51	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	003	2/12/2012	Total Suspended Solids	Monthly	35	68	94.29%	29	40-32-56	78-59-51	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	003	3/2/2012	Aluminum	Monthly	0.5	0.73	46.00%	31	40° 32' 56"	78° 59' 51"	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	003	3/2/2012	Aluminum	Daily	1.3	1.31	0.77%	1	40-32-56	78-59-51	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	003	3/31/2012	Aluminum	Monthly	0.5	0.73	46.00%	31	40-32-56	78-59-51	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	003	4/5/2012	Total Suspended Solids	Daily	70	190	171.43%	1	40-32-56	78-59-51	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	003	4/30/2012	Total Suspended Solids	Monthly	35	85	142.86%	30	40-32-56	78-59-51	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	003	10/12/2012	Total Dissolved Solids	Monthly	500	511	2.20%	31	40° 32' 56"	78° 59' 51"	Little Yellow Creek
Amfire Mining Company, LLC	PA0235521	32011302	003	10/31/2012	Aluminum	Monthly	0.5	0.515	3%	31	40-32-56	78-59-51	Little Yellow Creek
Amfire Mining Company, LLC	PA0235717	11040701	001	2/10/2009	Iron	Daily	8.75	17.3	97.71	1	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	2/10/2009	Manganese	Daily	4	4.11	2.75	1	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	2/10/2009	pH	Daily	>6	3.2	46.67	1	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	2/28/2009	Manganese	Monthly	2	4.11	105.50	28	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	1/11/2010	Iron	Daily	8.75	63.7	628.00	1	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	1/11/2010	Manganese	Daily	5	8.04	60.80	1	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	1/11/2010	pH	Daily	>6	2.7	55.00	1	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	1/31/2010	Iron	Monthly	3.5	63.7	1720.00	31	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	1/31/2010	Manganese	Monthly	2	8.04	302.00	31	40-23-19	78-39-01	U.T. to Spring Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0235717	11040701	001	1/31/2010	Total Suspended Solids	Monthly	35	60	71.43	31	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	2/10/2010	Iron	Daily	8.75	48.9	458.86	1	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	2/10/2010	Manganese	Daily	5	6.97	39.40	1	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	2/10/2010	pH	Daily	>6	2.7	55.00	1	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	2/28/2010	Iron	Monthly	3.5	48.9	1297.14	28	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0235717	11040701	001	2/28/2010	Manganese	Monthly	2	6.97	248.50	28	40-23-19	78-39-01	U.T. to Spring Run
Amfire Mining Company, LLC	PA0241491	24990101	L	6/30/2012	Total Suspended Solids	Monthly	35	55	57%	30	41-16-20	78-43-3	Little Toby Creek
Amfire Mining Company, LLC	PA0242390	24030103	SP10	9/14/2006	Alkalinity>Acidity	Daily	Alk>Acid	Acid=6.57, Alk=1.65		1	41-16-49	78-42-00	Little Toby Creek
Amfire Mining Company, LLC	PA0242390	24030103	SP10	9/14/2006	pH	Daily	>6	5.3	11.67	1	41-16-49	78-42-00	Little Toby Creek
Amfire Mining Company, LLC	PA0243671	17030121	A	2/18/2011	Iron	Daily	7	8.07	15.29	1	40-59-11	78-40-40	U.T. to Bell Run
Amfire Mining Company, LLC	PA0243671	17030121	A	3/17/2011	Alkalinity>Acidity	Daily	Alk>Acid	Acid=19, Alk=14		1	40-59-11	78-40-40	U.T. to Bell Run
Amfire Mining Company, LLC	PA0243671	17030121	A	3/17/2011	pH	Daily	>6	5.9	1.67	1	40-59-11	78-40-40	U.T. to Bell Run
Amfire Mining Company, LLC	PA0243671	17030121	A	3/31/2011	pH	Daily	>6	5.9	1.67	1	40-59-11	78-40-40	U.T. to Bell Run
Amfire Mining Company, LLC	PA0243671	17030121	B	6/22/2009	Alkalinity>Acidity	Daily	Alk>Acid	Acid=19, Alk=11		1	40-59-17	78-40-39	U.T. to Bell Run
Amfire Mining Company, LLC	PA0243671	17030121	B	3/17/2011	Alkalinity>Acidity	Daily	Alk>Acid	Acid=20, Alk=14		1	40-59-17	78-40-39	U.T. to Bell Run
Amfire Mining Company, LLC	PA0243671	17030121	B	3/17/2011	pH	Daily	>6	5.9	1.67	1	40-59-17	78-40-39	U.T. to Bell Run
Amfire Mining Company, LLC	PA0249211	56020103	002	3/9/2011	Manganese	Daily	5	8.3	66.00	1	40-08-12	79-07-12	U.T. to Beam Run
Amfire Mining Company, LLC	PA0249211	56020103	002	3/9/2011	pH	Daily	<9	9.23	2.56	1	40-08-12	79-07-12	U.T. to Beam Run
Amfire Mining Company, LLC	PA0249211	56020103	002	1/3/2012	Manganese	Daily	4.0	6.8	70.00%	1	40° 08' 12"	79° 07' 12"	U.T. to Beam Run
Amfire Mining Company, LLC	PA0249211	56020103	002	2/23/2012	pH	Daily	9.0	10.3	14.44%	1	40° 08' 12"	79° 07' 12"	U.T. to Beam Run
Amfire Mining Company, LLC	PA0249211	56020103	002	2/23/2012	pH	Daily	9.0	10.3	14.44%	1	40-08-12	79-07-12	U.T. to Beam Run
Amfire Mining Company, LLC	PA0249211	56020103	002	3/28/2012	pH	Daily	9.0	9.08	0.89%	1	40° 08' 12"	79° 07' 12"	U.T. to Beam Run
Amfire Mining Company, LLC	PA0249211	56020103	002	3/28/2012	pH	Daily	9.0	9.08	0.89%	1	40-08-12	79-07-12	U.T. to Beam Run
Amfire Mining Company, LLC	PA0249211	56020103	002	4/25/2012	Manganese	Daily	4.0	17.5	337.50%	1	40-08-12	79-07-12	U.T. to Beam Run
Amfire Mining Company, LLC	PA0249211	56020103	002	4/25/2012	Manganese	Monthly	2	17.5	775.00%	30	40-08-12	79-07-12	U.T. to Beam Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0249211	56020103	002	11/1/2012	pH	Daily	9.0	9.54	6.00%	1	40° 08' 12"	79° 07' 12"	U.T. to Beam Run
Amfire Mining Company, LLC	PA0249211	56020103	002	1/3/2013	Manganese	Monthly	2	6.8	240.00%	31	40° 08' 12"	79° 07' 12"	U.T. to Beam Run
Amfire Mining Company, LLC	PA0249971	56060105	001	11/29/2010	Alkalinity>Acidity	Daily	Alk>Acid	Acid=17, Alk=12		1	40-11-35	78-58-26	U.T. to Quemahoning Creek
Amfire Mining Company, LLC	PA0249971	56060105	003	10/5/2010	pH	Daily	>6	5.9	1.67	1	40-11-50	78-59-14	U.T. to Quemahoning Creek
Amfire Mining Company, LLC	PA0249971	56060105	003	11/29/2010	Alkalinity>Acidity	Daily	Alk>Acid	Acid=15, Alk=12		1	40-11-50	78-59-14	U.T. to Quemahoning Creek
Amfire Mining Company, LLC	PA0250384	03030103	002	3/17/2010	Total Suspended Solids	Monthly	35	36	2.86	31	40-55-19	79-36-44	U.T. to Patterson Creek
Amfire Mining Company, LLC	PA0250384	03030103	003	6/22/2006	Alkalinity>Acidity	Daily	Alk>Acid	Acid=10, Alk=5		1	40-55-23	79-36-27	Huling Run**
Amfire Mining Company, LLC	PA0250384	03030103	003	6/22/2006	pH	Daily	>6	5.51	8.17	1	40-55-23	79-36-27	Huling Run**
Amfire Mining Company, LLC	PA0256269	17050107	A	6/11/2012	Manganese	Daily	4	7.22	81%	1	41-5-6	78-18-47	UT To Surveyor Run
Amfire Mining Company, LLC	PA0256498	17070103	PND A	1/19/2010	Alkalinity>Acidity	Daily	Alk>Acid	Acid=18, Alk=10		1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	1/19/2010	pH	Daily	>6	5.6	6.67	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	2/2/2010	Manganese	Daily	4	4.64	16.00	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	2/2/2010	pH	Daily	>6	5.9	1.67	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	4/29/2010	Alkalinity>Acidity	Daily	Alk>Acid	Acid=13, Alk=6		1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	4/29/2010	Manganese	Daily	4	4.3	7.50	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	4/29/2010	pH	Daily	>6	5.0	16.67	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	5/14/2010	Alkalinity>Acidity	Daily	Alk>Acid	Acid=37, Alk=8		1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	5/14/2010	pH	Daily	>6	5.4	10.00	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	10/4/2010	Alkalinity>Acidity	Daily	Alk>Acid	Acid=70, Alk=0		1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	10/4/2010	Iron	Daily	7	7.42	6.00	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	10/4/2010	Manganese	Daily	4	13.71	242.75	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	10/4/2010	pH	Daily	>6	3.6	40.00	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	12/13/2010	Alkalinity>Acidity	Daily	Alk>Acid	Acid=85, Alk=0		1	41-06-41	78-17-29	U.T. to Deer Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Amfire Mining Company, LLC	PA0256498	17070103	PND A	12/13/2010	Manganese	Daily	4	24.91	522.75	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	12/13/2010	pH	Daily	>6	4.0	33.33	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	1/5/2011	Alkalinity>Acidity	Daily	Alk>Acid	Acid=48, Alk=7		1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	1/5/2011	Iron	Daily	7	11.94	70.57	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	1/5/2011	Manganese	Daily	4	15.97	299.25	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0256498	17070103	PND A	1/5/2011	pH	Daily	>6	4.7	21.67	1	41-06-41	78-17-29	U.T. to Deer Creek
Amfire Mining Company, LLC	PA0262811	32090102	008	2/11/2013	pH	Daily	6	5.7	-5%	1	40° 34' 51"	79° 04' 32"	UNT Ferrier Run
Brooks Run Mining Company, LLC	WV0050318	UO-359, P-526, O-37-84, R-620, H-471, I-482	022	8/12/2012	Aluminum	Daily	0.75	0.98	30.67%	1	38° 35' 58"	80° 38' 22"	Wolf Creek
Brooks Run Mining Company, LLC	WV0050857	P-0612-00	002	5/31/2008	Manganese	Monthly	2	2.36	18.13%	31	38 30' 59 "	80 36' 50 "	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	P-0612-00	002	3/31/2010	Manganese	Monthly	2	2.00	0.17%	31	38 30' 59 "	80 36' 50 "	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	P-0612-00	002	6/30/2010	Iron	Daily	2.46	2.98	21.06%	1	38 30' 59 "	80 36' 50 "	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	P-0612-00	002	4/30/2011	Manganese	Monthly	2	2.07	3.35%	30	38 30' 59 "	80 36' 50 "	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	H-529, H-562, P-612	002	9/1/2011	Iron	Daily	2.46	11.90	383.74%	1	38 30' 59 "	80 36' 50 "	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	H-529, H-562, P-612	002	9/30/2011	Iron	Monthly	1.42	2.46	73.24%	30	38 30' 59 "	80 36' 50 "	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	H-529, H-562, P-612	002	10/31/2011	Manganese	Monthly	2.00	2.28	14.00%	31	38 30' 59 "	80 36' 50 "	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	6/30/2008	Iron	Monthly	3	3.46	15.40%	30	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	7/31/2008	Iron	Monthly	3	3.78	25.92%	31	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	8/31/2008	Iron	Daily	6	6.52	8.63%	1	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	8/31/2008	Iron	Monthly	3	3.72	24.14%	31	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	8/31/2009	Manganese	Daily	4	5.20	30.10%	1	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	8/31/2009	Manganese	Monthly	2	4.65	132.64%	31	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	9/30/2009	Manganese	Monthly	2	2.07	3.36%	30	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	9/30/2009	Manganese	Monthly	2	2.07	3.50%	30	38 30' 53"	80 36' 21"	Missouri Ck

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	10/31/2009	Aluminum, Total (as Al)	Daily	0.75	0.87	15.73%	1	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	10/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.87	101.86%	31	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	2/28/2010	Aluminum, Total (as Al)	Monthly	0.43	0.53	23.40%	28	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	6/30/2010	Iron	Daily	6	16.60	176.67%	1	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	6/30/2010	Iron	Monthly	2	2.45	22.50%	30	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	006	6/30/2010	Iron	Monthly	3	16.60	453.33%	30	38 30' 53"	80 36' 21"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	008	12/31/2010	Aluminum, Total (as Al)	Daily	0.75	0.82	9.40%	1	38-30-40	80-37-45	Road Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	008	3/31/2011	Aluminum, Total (as Al)	Daily	0.75	1.11	48.40%	1	38-30-40	80-37-45	Road Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	008	3/31/2011	Aluminum, Total (as Al)	Monthly	0.43	1.01	135.58%	31	38-30-40	80-37-45	Road Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	008	4/30/2011	Aluminum, Total (as Al)	Daily	0.75	1.59	111.60%	1	38-30-40	80-37-45	Road Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	008	4/30/2011	Aluminum, Total (as Al)	Monthly	0.43	0.83	92.47%	30	38-30-40	80-37-45	Road Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-529, H-562, P-612	008	3/31/2012	Aluminum, Total (as Al)	Monthly	0.43	0.46	6.98%	31	38-30-40	80-37-45	Road Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	8/31/2010	Aluminum, Total (as Al)	Daily	0.75	1.04	39.07%	1	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	8/31/2010	Aluminum, Total (as Al)	Monthly	0.43	0.54	24.67%	31	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	8/31/2010	Iron	Monthly	3	4.00	33.27%	31	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	1/31/2011	Aluminum, Total (as Al)	Daily	0.75	1.44	92.13%	1	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	1/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.65	51.14%	31	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	3/31/2011	Aluminum, Total (as Al)	Daily	0.75	0.85	13.72%	1	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	4/30/2011	Aluminum, Total (as Al)	Daily	0.75	2.16	188.40%	1	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	4/30/2011	Aluminum, Total (as Al)	Monthly	0.43	1.19	177.30%	30	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	5/31/2011	Aluminum, Total (as Al)	Daily	0.75	0.90	20.27%	1	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	5/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.58	35.51%	31	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	6/30/2011	Aluminum, Total (as Al)	Daily	0.75	1.49	99.20%	1	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	6/30/2011	Aluminum, Total (as Al)	Monthly	0.43	1.25	189.65%	30	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-0562-00	009	6/30/2011	Total Suspended Solids	Monthly	35	40.00	14.29%	30	38-32-49	80-39-11	Panther Fork/Elk River

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV0050857	H-529, H-562, P-612	009	7/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.66	53.49%	31	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-529, H-562, P-612	009	1/1/2012	Aluminum, Total (as Al)	Daily	0.75	0.78	4.52%	1	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-529, H-562, P-612	009	1/31/2012	Aluminum, Total (as Al)	Monthly	0.43	0.46	6.84%	31	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	U-2021-08, P-612	009	2/28/2012	Aluminum, Total (as Al)	Monthly	0.43	0.59	37.21%	28	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	H-529, H-562, P-612	009	3/31/2012	Aluminum, Total (as Al)	Monthly	0.43	0.73	69.77%	31	38-32-49	80-39-11	Panther Fork/Elk River
Brooks Run Mining Company, LLC	WV0050857	P-612, U-2012-08	009	12/1/2012	Aluminum	Daily	0.75	0.81	8.00%	1	38° 32' 49"	80° 39' 11"	Panther Fork
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	7/30/2008	BOD, 5-Day 20 Deg.C	Daily	10	11	10.00%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	9/30/2008	BOD, 5-Day 20 Deg.C	Daily	10	11	10.00%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857		401	9/30/2008	BOD, 5-Day 20 Deg.C	Daily	0.12	0.132	10.00%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	3/31/2010	BOD, 5-Day 20 Deg.C	Daily	10	11.10	11.00%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	6/30/2010	Chlorine, Total Residual	Daily	0.028	0.2	614.29%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	6/30/2010	Coliform, Fecal	Daily	400	1000	150.00%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	12/31/2010	BOD, 5-Day 20 Deg.C	Daily	10	15.30	53.00%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	12/31/2010	Coliform, Fecal	Daily	400	5500.00	1275.00%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	12/31/2010	BOD, 5-Day 20 Deg.C	Daily	0.12	0.18	50.00%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	3/31/2011	BOD, 5-Day 20 Deg.C	Daily	10	14.78	47.80%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	3/31/2011	Total Suspended Solids	Daily	60	80.00	33.33%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	3/31/2011	BOD, 5-Day 20 Deg.C	Daily	0.12	0.355	195.83%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	3/31/2011	Flow,in Conduit or thru plant	Daily	0.0015	0.002	33.33%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	3/31/2011	Total Suspended Solids	Daily	0.76	1.92	152.63%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	4/30/2011	Chlorine, Total Residual	Daily	0.028	0.03	7.14%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050857	U-2012-08	401	6/30/2011	Chlorine, Total Residual	Daily	0.028	0.03	7.14%	1	38 31' 02"	80 36' 45"	Missouri Ck
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	4/30/2007	Aluminum, Total (as Al)	Monthly	0.08	0.1316	64.50%	30	38° 32' 05"	80° 38' 44"	Right Fk
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	12/31/2007	Aluminum, Total (as Al)	Daily	0.75	1.731	130.80%	1	38° 32' 05"	80° 38' 44"	Right Fk
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	12/31/2007	Aluminum, Total (as Al)	Monthly	0.43	0.905	110.47%	31	38° 32' 05"	80° 38' 44"	Right Fk

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	4/30/2008	pH	Daily	6	5.8	-3.33%	1	38° 32' 05"	80° 38' 44"	Right Fk
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	6/30/2008	Aluminum, Total (as Al)	Daily	0.75	0.9366	24.88%	1	38° 32' 05"	80° 38' 44"	Right Fk
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	6/30/2008	Aluminum, Total (as Al)	Monthly	0.43	0.5556	29.21%	30	38° 32' 05"	80° 38' 44"	Right Fk
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	6/30/2008	pH	Daily	6	5.8	-3.33%	1	38° 32' 05"	80° 38' 44"	Right Fk
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	7/31/2008	pH	Daily	6	5.9	-1.67%	1	38° 32' 05"	80° 38' 44"	Right Fk
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	1/31/2009	Aluminum, Total (as Al)	Daily	0.75	0.8121	8.28%	1	38° 32' 05"	80° 38' 44"	Right Fk
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.4928	14.60%	31	38° 32' 05"	80° 38' 44"	Right Fk
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	1/31/2009	Total Suspended Solids	Daily	70	83	18.57%	1	38° 32' 05"	80° 38' 44"	Right Fk
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	001	1/31/2009	Total Suspended Solids	Monthly	35	41.5	18.57%	31	38° 32' 05"	80° 38' 44"	Right Fk
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	002	6/30/2007	Aluminum, Total (as Al)	Daily	0.14	0.1697	21.21%	1	38-32-42	80-38-43	Right Fork of Little Birch River/Elk River
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	002	6/30/2007	Aluminum, Total (as Al)	Monthly	0.08	0.1537	92.13%	30	38-32-42	80-38-43	Right Fork of Little Birch River/Elk River
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	002	7/31/2007	Aluminum, Total (as Al)	Daily	0.14	0.2519	79.93%	1	38-32-42	80-38-43	Right Fork of Little Birch River/Elk River
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	002	7/31/2007	Aluminum, Total (as Al)	Monthly	0.08	0.1618	102.25%	31	38-32-42	80-38-43	Right Fork of Little Birch River/Elk River
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	002	8/31/2009	Aluminum, Total (as Al)	Daily	0.75	1.57	109.33%	1	38-32-42	80-38-43	Right Fork of Little Birch River/Elk River
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	002	8/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.7882	83.30%	31	38-32-42	80-38-43	Right Fork of Little Birch River/Elk River
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	002	8/31/2009	Iron	Daily	6	7.795	29.92%	1	38-32-42	80-38-43	Right Fork of Little Birch River/Elk River
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	002	8/31/2009	Iron	Monthly	3	4.5945	53.15%	31	38-32-42	80-38-43	Right Fork of Little Birch River/Elk River
Brooks Run Mining Company, LLC	WV0050920	U-0512-00	002	7/31/2010	Iron	Monthly	3	3.1469	4.90%	31	38-32-42	80-38-43	Right Fork of Little Birch River/Elk River
Brooks Run Mining Company, LLC	WV0050920	UO-512	002	4/12/2012	Aluminum, Total (as Al)	Daily	0.75	0.98	30.67%	1	38-32-42	80-38-43	Right Fork of Little Birch River/Elk River

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV0050920	UO-512	002	4/30/2012	Aluminum, Total (as Al)	Monthly	0.43	0.49	13.95%	30	38-32-42	80-38-43	Right Fork of Little Birch River/Elk River
Brooks Run Mining Company, LLC	WV0058513	D-0007-82	031	1/31/2009	Aluminum, Total (as Al)	Daily	0.75	1.043	39.07%	1	38° 33' 27"	80° 37' 19"	Little Birch Rv
Brooks Run Mining Company, LLC	WV0058513	D-0007-82	031	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	1.0192	137.02%	31	38° 33' 27"	80° 37' 19"	Little Birch Rv
Brooks Run Mining Company, LLC	WV0060194	O-2003-01	004	6/30/2008	Aluminum, Total (as Al)	Monthly	0.43	0.45	5.77%	30	38 28' 40"	80 38' 03"	Ming Rn
Brooks Run Mining Company, LLC	WV0060194	O-2003-01	004	6/30/2008	Iron	Monthly	0.65	0.68	4.03%	30	38 28' 40"	80 38' 03"	Ming Rn
Brooks Run Mining Company, LLC	WV0060194	O-2003-01	004	8/31/2008	Aluminum, Total (as Al)	Daily	0.75	0.82	9.21%	1	38 28' 40"	80 38' 03"	Ming Rn
Brooks Run Mining Company, LLC	WV0060194	O-2003-01	004	8/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.47	9.21%	31	38 28' 40"	80 38' 03"	Ming Rn
Brooks Run Mining Company, LLC	WV0060194	O-2003-01	004	4/30/2009	Iron	Daily	1.12	4.63	312.95%	1	38 28' 40"	80 38' 03"	Ming Rn
Brooks Run Mining Company, LLC	WV0060194	O-2003-01	004	4/30/2009	Iron	Monthly	0.65	1.78	174.05%	30	38 28' 40"	80 38' 03"	Ming Rn
Brooks Run Mining Company, LLC	WV0060194	O-2003-01	004	12/31/2009	Iron	Daily	1.12	1.35	20.18%	1	38 28' 40"	80 38' 03"	Ming Rn
Brooks Run Mining Company, LLC	WV0060194	O-2003-01	004	12/31/2009	Iron	Monthly	0.65	0.76	17.62%	31	38 28' 40"	80 38' 03"	Ming Rn
Brooks Run Mining Company, LLC	WV0068306	S-0071-85	009	8/31/2008	Manganese	Monthly	2	3.245	62.25%	31	38° 33' 31"	80° 35' 52"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-0071-85	009	2/28/2009	Total Suspended Solids	Daily	70	88	25.71%	1	38° 33' 31"	80° 35' 52"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-0071-85	009	2/28/2009	Total Suspended Solids	Monthly	35	44.3333	26.67%	28	38° 33' 31"	80° 35' 52"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-0071-85	009	12/31/2010	Iron	Daily	6	6.15	2.50%	1	38° 33' 31"	80° 35' 52"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-0071-85	009	12/31/2010	Manganese	Daily	4	4.28	7.00%	1	38° 33' 31"	80° 35' 52"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-0071-85	012	6/30/2010	Total Suspended Solids	Daily	70	83	18.57%	1	38° 33' 14"	80° 36' 00"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-71-85	012	11/1/2011	Aluminum, Total (as Al)	Daily	0.75	3.36	348.00%	1	38° 33' 14"	80° 36' 00"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-71-85	012	11/1/2011	Iron	Daily	6.00	9.04	50.67%	1	38° 33' 14"	80° 36' 00"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-71-85	012	11/1/2011	Total Suspended Solids	Daily	70.00	179.00	155.71%	1	38° 33' 14"	80° 36' 00"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-71-85	012	11/30/2011	Aluminum, Total (as Al)	Monthly	0.43	1.67	288.37%	30	38° 33' 14"	80° 36' 00"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-71-85	012	11/30/2011	Iron	Monthly	3.00	3.63	21.00%	30	38° 33' 14"	80° 36' 00"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-71-85	012	11/30/2011	Total Suspended Solids	Monthly	35.00	65.67	87.63%	30	38° 33' 14"	80° 36' 00"	Brooks Ck
Brooks Run Mining Company, LLC	WV0068306	S-0071-85	018	8/31/2008	Manganese	Monthly	2	2.395	19.75%	31	38° 33' 11"	80° 35' 53"	Brooks Ck

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV0096725	U-3019-91	002	6/30/2008	Iron	Daily	6	7.924	32.07%	1	38° 09' 27"	80° 23' 20"	South Fk
Brooks Run Mining Company, LLC	WV0096725	U-3019-91	002	6/30/2008	Iron	Monthly	3	4.762	58.73%	30	38° 09' 27"	80° 23' 20"	South Fk
Brooks Run Mining Company, LLC	WV0096725	U-3019-91	002	7/31/2009	pH	Daily	9	9.32	3.56%	1	38° 09' 27"	80° 23' 20"	South Fk
Brooks Run Mining Company, LLC	WV0096725	U-3019-91	002	12/31/2010	Iron	Monthly	3	3.779	25.97%	31	38° 09' 27"	80° 23' 20"	South Fk
Brooks Run Mining Company, LLC	WV0096971	S-3033-93	010	6/30/2008	Manganese	Monthly	2	2.176	8.80%	30	38° 09' 07"	80° 27' 51"	Becky Rn
Brooks Run Mining Company, LLC	WV0096971	S-3033-93	022	4/30/2010	pH	Daily	6	5.5	-8.33%	1	38° 09' 20"	80° 28' 23"	Elklick Rn
Brooks Run Mining Company, LLC	WV0096971	S-3033-93	022	4/30/2011	pH	Daily	6	5.4	-10.00%	1	38° 09' 20"	80° 28' 23"	Elklick Rn
Brooks Run Mining Company, LLC	WV0096971	S-3033-93	032	6/30/2008	Manganese	Monthly	2	2.0275	1.37%	30	38° 09' 01"	80° 28' 00"	Elklick Rn
Brooks Run Mining Company, LLC	WV0096971	S-3033-93	032	6/30/2009	Manganese	Monthly	2	2.239	11.95%	30	38° 09' 01"	80° 28' 00"	Elklick Rn
Brooks Run Mining Company, LLC	WV0097039		001	5/31/2008	Aluminum, Total (as Al)	Monthly	0.08	0.1162	45.25%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	6/30/2008	Aluminum, Total (as Al)	Monthly	0.08	0.0884	10.50%	30	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	12/31/2008	Aluminum, Total (as Al)	Daily	0.14	0.271	93.57%	1	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	12/31/2008	Aluminum, Total (as Al)	Monthly	0.08	0.271	238.75%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	1/31/2009	Aluminum, Total (as Al)	Daily	0.14	0.1964	40.29%	1	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	1/31/2009	Aluminum, Total (as Al)	Monthly	0.08	0.1964	145.50%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	2/28/2009	Aluminum, Total (as Al)	Monthly	0.08	0.134	67.50%	28	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	3/31/2009	Aluminum, Total (as Al)	Daily	0.14	0.1424	1.71%	1	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	3/31/2009	Aluminum, Total (as Al)	Monthly	0.08	0.1424	78.00%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	4/30/2009	Aluminum, Total (as Al)	Daily	0.14	0.1613	15.21%	1	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	4/30/2009	Aluminum, Total (as Al)	Monthly	0.08	0.1613	101.63%	30	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	5/31/2009	Aluminum, Total (as Al)	Daily	0.14	0.1417	1.21%	1	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	5/31/2009	Aluminum, Total (as Al)	Monthly	0.08	0.1417	77.13%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	7/31/2009	Aluminum, Total (as Al)	Daily	0.14	0.1657	18.36%	1	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	7/31/2009	Aluminum, Total (as Al)	Monthly	0.08	0.1657	107.13%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	10/31/2009	Aluminum, Total (as Al)	Monthly	0.08	0.083	3.75%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV0097039		001	11/30/2009	Aluminum, Total (as Al)	Daily	0.14	0.1719	22.79%	1	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	11/30/2009	Aluminum, Total (as Al)	Monthly	0.08	0.1719	114.88%	30	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	5/31/2010	Aluminum, Total (as Al)	Monthly	0.08	0.1288	61.00%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	6/30/2010	Aluminum, Total (as Al)	Monthly	0.08	0.0893	11.63%	30	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	7/31/2010	Aluminum, Total (as Al)	Daily	0.14	0.1864	33.14%	1	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	7/31/2010	Aluminum, Total (as Al)	Monthly	0.08	0.1864	133.00%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	10/31/2010	Aluminum, Total (as Al)	Daily	0.14	0.2306	64.71%	1	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	10/31/2010	Aluminum, Total (as Al)	Monthly	0.08	0.2306	188.25%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	12/31/2010	Aluminum, Total (as Al)	Daily	0.14	0.264	88.57%	1	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	12/31/2010	Aluminum, Total (as Al)	Monthly	0.08	0.264	230.00%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	3/31/2011	Aluminum, Total (as Al)	Monthly	0.08	0.0981	22.63%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	4/30/2011	Aluminum, Total (as Al)	Daily	0.14	0.1733	23.79%	1	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	4/30/2011	Aluminum, Total (as Al)	Monthly	0.08	0.1733	116.63%	30	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV0097039		001	5/31/2011	Aluminum, Total (as Al)	Monthly	0.08	0.1239	54.88%	31	38° 9' 18.0000"	80° 22' 23.0000"	South Fork of Cherry River
Brooks Run Mining Company, LLC	WV1000527	U-3071-86	001	4/30/2011	Aluminum, Total (as Al)	Daily	0.75	0.9853	31.37%	1	38° 31' 29"	80° 40' 44"	Brier Rn
Brooks Run Mining Company, LLC	WV1000527	U-3071-86	001	4/30/2011	Aluminum, Total (as Al)	Monthly	0.43	0.6261	45.60%	30	38° 31' 29"	80° 40' 44"	Brier Rn
Brooks Run Mining Company, LLC	WV1003470	S-2004-87	004	12/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.4526	5.26%	31	38° 32' 52"	80° 36' 58"	Little Birch Rv
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	4/30/2010	Aluminum, Total (as Al)	Daily	0.75	1.02	36.00%	1	37° 36' 09"	81° 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	4/30/2010	Aluminum, Total (as Al)	Monthly	0.43	0.75	73.26%	30	37° 36' 09"	81° 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	6/1/2010	BOD, 5-Day 20 Deg.C	Daily	0.76	0.847	11.45%	1	37° 36' 09"	81° 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	6/30/2010	BOD, 5-Day 20 Deg.C	Monthly	0.38	0.847	122.89%	30	37° 36' 09"	81° 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	7/31/2010	BOD, 5-Day 20 Deg.C	Daily	0.76	0.82626048	8.72%	1	37° 36' 09"	81° 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	7/31/2010	BOD, 5-Day 20 Deg.C	Monthly	0.38	0.82626	117.44%	31	37° 36' 09"	81° 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	7/31/2010	Nitrogen, Kjeldahl Total	Monthly	0.23	0.283427	23.23%	31	37° 36' 09"	81° 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	8/31/2010	BOD, 5-Day 20 Deg.C	Monthly	0.38	0.683346	79.83%	31	37° 36' 09"	81° 36' 35"	Turkey Ck

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	8/31/2010	Nitrogen, Kjeldahl Total	Monthly	0.23	0.283427	23.23%	31	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	9/1/2010	BOD, 5-Day 20 Deg.C	Daily	0.76	0.779	2.50%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	9/30/2010	BOD, 5-Day 20 Deg.C	Monthly	0.38	0.558	46.84%	30	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	10/31/2010	BOD, 5-Day 20 Deg.C	Daily	0.76	1.94795712	156.31%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	10/31/2010	BOD, 5-Day 20 Deg.C	Monthly	0.38	1.230534	223.82%	31	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	12/31/2010	BOD, 5-Day 20 Deg.C	Daily	0.76	0.96196896	26.57%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	12/31/2010	BOD, 5-Day 20 Deg.C	Monthly	0.38	0.538631	41.75%	31	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	4/30/2011	BOD, 5-Day 20 Deg.C	Daily	0.76	0.930744	22.47%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	4/30/2011	BOD, 5-Day 20 Deg.C	Monthly	0.38	0.405924	6.82%	30	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	5/31/2011	BOD, 5-Day 20 Deg.C	Daily	0.76	14.41152	1796.25%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	5/31/2011	BOD, 5-Day 20 Deg.C	Monthly	0.38	5.930941	1460.77%	31	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	5/31/2011	Nitrogen, Kjeldahl Total	Daily	0.46	0.70616448	53.51%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	5/31/2011	Nitrogen, Kjeldahl Total	Monthly	0.23	0.439952	91.28%	31	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	6/30/2011	BOD, 5-Day 20 Deg.C	Daily	0.76	3.6268992	377.22%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	6/30/2011	BOD, 5-Day 20 Deg.C	Monthly	0.38	0.999199	162.95%	30	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	6/30/2011	Nitrogen, Kjeldahl Total	Daily	0.46	1.78222464	287.44%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	6/30/2011	Nitrogen, Kjeldahl Total	Monthly	0.23	0.498158	116.59%	30	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	10/1/2011	Aluminum, Total (as Al)	Daily	0.75	0.78	4.00%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	2/1/2012	Coliform, Fecal	Daily	400	540	35.00%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	3/9/2012	Aluminum, Total (as Al)	Daily	0.75	1.56	108.00%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	4/26/2012	Aluminum, Total (as Al)	Daily	0.75	1.09	45.33%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	4/26/2012	Fecal Coliform	Daily	450	25000	5455.56%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	4/30/2012	Fecal Coliform	Monthly	200	5028.1	2414.05%	30	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	5/5/2012	Aluminum, Total (as Al)	Daily	0.75	0.86	14.67%	1	37 36' 09"	81 36' 35"	Turkey Ck
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	7/16/2012	Aluminum	Daily	0.75	1.23	64.00%	1	37° 36' 9.00"	81° 36' 35.00"	Turkey Creek

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1008706	U-4012-89	001	2/3/2013	Total Aluminum	Daily	0.75	0.77	2.67%	1	37° 36' 9"	81° 36' 35"	Turkey Creek
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	001	5/31/2008	Manganese	Monthly	2	3.11	55.34%	31	38 29' 24"	80 35' 56"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	001	6/30/2008	Manganese	Daily	4	4.75	18.85%	1	38 29' 24"	80 35' 56"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	001	6/30/2008	Manganese	Monthly	2	3.66	83.00%	30	38 29' 24"	80 35' 56"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	001	7/31/2008	Manganese	Monthly	2	2.43	21.73%	31	38 29' 24"	80 35' 56"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	002	12/31/2008	Iron	Monthly	1.42	2.14	50.35%	31	38 29' 13"	80 35' 46"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	002	12/31/2008	Manganese	Monthly	2	2.79	39.25%	31	38 29' 13"	80 35' 46"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	002	2/28/2011	Manganese	Monthly	2	2.10	4.87%	28	38 29' 13"	80 35' 46"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	002	3/31/2011	Manganese	Monthly	2	2.08	3.85%	31	38 29' 13"	80 35' 46"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	002	11/30/2011	Manganese	Monthly	2.00	2.11	5.50%	30	38 29' 13"	80 35' 46"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	004	12/31/2008	Total Suspended Solids	Monthly	35	38.00	8.57%	31	38 29' 14"	80 34' 44"	Laurel Creek
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	004	4/30/2009	Manganese	Monthly	2	2.39	19.50%	30	38 29' 14"	80 34' 44"	Laurel Creek
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	004	5/31/2009	Manganese	Monthly	2	2.56	27.80%	31	38 29' 14"	80 34' 44"	Laurel Creek
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	004	12/31/2009	Manganese	Monthly	2	2.12	5.93%	31	38 29' 14"	80 34' 44"	Laurel Creek
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	004	1/31/2010	Manganese	Daily	4	4.01	0.12%	1	38 29' 14"	80 34' 44"	Laurel Creek
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	004	1/31/2010	Manganese	Monthly	2	3.80	90.15%	31	38 29' 14"	80 34' 44"	Laurel Creek
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	004	2/28/2010	Manganese	Daily	4	4.64	16.08%	1	38 29' 14"	80 34' 44"	Laurel Creek
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	004	2/28/2010	Manganese	Monthly	2	3.08	54.12%	28	38 29' 14"	80 34' 44"	Laurel Creek
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	004	3/31/2010	Manganese	Monthly	2	2.24	12.22%	31	38 29' 14"	80 34' 44"	Laurel Creek
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	004	4/30/2010	Manganese	Monthly	2	2.01	0.52%	30	38 29' 14"	80 34' 44"	Laurel Creek
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	005	12/31/2009	Iron	Daily	2.46	2.64	7.20%	1	38 28' 43"	80 34' 26"	Glade Rn
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	005	12/31/2009	Iron	Monthly	1.42	2.00	40.96%	31	38 28' 43"	80 34' 26"	Glade Rn
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	005	12/31/2009	Total Suspended Solids	Monthly	35	40.33	15.24%	31	38 28' 43"	80 34' 26"	Glade Rn
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	005	2/28/2010	Iron	Daily	2.46	7.41	201.06%	1	38 28' 43"	80 34' 26"	Glade Rn
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	005	2/28/2010	Iron	Monthly	1.42	4.27	200.85%	28	38 28' 43"	80 34' 26"	Glade Rn

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	005	2/28/2010	Total Suspended Solids	Daily	70	178.00	154.29%	1	38 28' 43"	80 34' 26"	Glade Rn
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	005	2/28/2010	Total Suspended Solids	Monthly	35	100.50	187.14%	28	38 28' 43"	80 34' 26"	Glade Rn
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	007	12/31/2010	Aluminum, Total (as Al)	Daily	0.75	1.07	42.40%	1	38 28' 17"	80 35' 29"	Birch Rv
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	007	12/31/2010	Aluminum, Total (as Al)	Monthly	0.43	0.58	34.40%	31	38 28' 17"	80 35' 29"	Birch Rv
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	007	1/31/2011	Aluminum, Total (as Al)	Daily	0.75	0.81	7.71%	1	38 28' 17"	80 35' 29"	Birch Rv
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	007	2/28/2011	Aluminum, Total (as Al)	Daily	0.75	1.85	147.07%	1	38 28' 17"	80 35' 29"	Birch Rv
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	007	2/28/2011	Aluminum, Total (as Al)	Monthly	0.43	0.95	121.51%	28	38 28' 17"	80 35' 29"	Birch Rv
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	007	3/31/2011	Aluminum, Total (as Al)	Daily	0.75	2.55	239.47%	1	38 28' 17"	80 35' 29"	Birch Rv
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	007	3/31/2011	Aluminum, Total (as Al)	Monthly	0.43	1.46	239.47%	31	38 28' 17"	80 35' 29"	Birch Rv
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	007	5/31/2011	Aluminum, Total (as Al)	Daily	0.75	0.93	24.61%	1	38 28' 17"	80 35' 29"	Birch Rv
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	007	5/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.55	27.00%	31	38 28' 17"	80 35' 29"	Birch Rv
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	007	6/30/2011	Aluminum, Total (as Al)	Monthly	0.43	0.50	16.35%	30	38 28' 17"	80 35' 29"	Birch Rv
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	008	10/31/2008	Manganese	Monthly	2	2.36	17.78%	31	38 28' 33"	80 35' 50"	Laurel Fk
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	008	1/31/2009	Manganese	Monthly	2	2.19	9.30%	31	38 28' 33"	80 35' 50"	Laurel Fk
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	008	2/28/2011	Aluminum, Total (as Al)	Daily	0.75	2.00	167.20%	1	38 28' 33"	80 35' 50"	Laurel Fk
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	008	2/28/2011	Aluminum, Total (as Al)	Monthly	0.43	1.08	151.91%	28	38 28' 33"	80 35' 50"	Laurel Fk
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	009	5/31/2008	Manganese	Monthly	2	2.75	37.70%	31	38 28' 45"	80 36' 03"	Laurel Fk
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	009	6/30/2008	Manganese	Monthly	2	2.81	40.67%	30	38 28' 45"	80 36' 03"	Laurel Fk
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	009	1/31/2009	Manganese	Monthly	2	2.32	15.83%	31	38 28' 45"	80 36' 03"	Laurel Fk
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	009	2/28/2009	Manganese	Daily	4	4.20	5.10%	1	38 28' 45"	80 36' 03"	Laurel Fk
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	009	2/28/2009	Manganese	Monthly	2	3.40	69.99%	28	38 28' 45"	80 36' 03"	Laurel Fk
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	11/30/2010	Manganese	Daily	4	6.93	73.33%	1	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	11/30/2010	Manganese	Monthly	2	6.93	246.65%	30	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	10/1/2011	Manganese	Daily	4.00	4.21	5.25%	1	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	10/31/2011	Manganese	Monthly	2.00	3.83	91.50%	31	38-29-38	80-36-21	Missouri Creek/Elk River

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	11/1/2011	Manganese	Daily	4.00	5.75	43.75%	1	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	11/30/2011	Manganese	Monthly	2.00	5.14	157.00%	30	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	12/1/2011	Manganese	Daily	4.00	5.18	29.50%	1	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	12/31/2011	Manganese	Monthly	2.00	4.76	138.00%	31	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	1/1/2012	Manganese	Daily	4.00	4.41	10.25%	1	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	1/31/2012	Manganese	Monthly	2.00	2.42	21.00%	31	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	2/28/2012	Manganese	Monthly	2.00	3.48	74.00%	28	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	3/10/2012	Manganese	Daily	4.00	4.05	1.25%	1	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	014	3/31/2012	Manganese	Monthly	2	3.59	79.50%	31	38-29-38	80-36-21	Missouri Creek/Elk River
Brooks Run Mining Company, LLC	WV1009885	S-2012-02	014	9/30/2012	Total Suspended Solids	Daily	70	72	2.86%	1	38-29-38	80-36-21	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2012-02	014	9/30/2012	Total Suspended Solids	Monthly	35	49.25	40.71%	30	38-29-38	80-36-21	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	3/31/2010	Manganese	Daily	4	4.72	18.00%	1	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	3/31/2010	Manganese	Monthly	2	4.72	136.00%	31	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	4/30/2010	Manganese	Daily	4	5.40	35.00%	1	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	4/30/2010	Manganese	Monthly	2	4.81	140.73%	30	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	5/31/2010	Manganese	Daily	4	5.27	31.80%	1	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	5/31/2010	Manganese	Monthly	2	5.27	163.60%	31	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	8/31/2010	Manganese	Monthly	2	2.61	30.68%	31	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	2/28/2011	Manganese	Daily	4	8.46	111.60%	1	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	2/28/2011	Manganese	Monthly	2	7.80	289.95%	28	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	3/31/2011	Manganese	Daily	4	7.83	95.83%	1	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	3/31/2011	Manganese	Monthly	2	7.27	263.70%	31	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	4/30/2011	Manganese	Daily	4	5.49	37.28%	1	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	4/30/2011	Manganese	Monthly	2	5.44	172.10%	30	38 29' 42	80 36' 15"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	015	8/31/2011	Total Suspended Solids	Monthly	35.00	39.00	11.43%	31	38 29' 42	80 36' 15"	Missouri Ck

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	5/31/2010	Manganese	Daily	4	5.20	30.08%	1	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	5/31/2010	Manganese	Monthly	2	5.20	160.15%	31	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	6/30/2010	Manganese	Daily	4	6.54	63.48%	1	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	6/30/2010	Manganese	Monthly	2	3.93	96.70%	30	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	7/31/2010	Manganese	Daily	4	10.39	159.75%	1	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	7/31/2010	Manganese	Monthly	2	10.39	419.50%	31	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	10/31/2010	Manganese	Daily	4	4.45	11.15%	1	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	10/31/2010	Manganese	Monthly	2	2.19	9.42%	31	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	11/30/2010	Manganese	Daily	4	5.83	45.73%	1	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	11/30/2010	Manganese	Monthly	2	3.35	67.43%	30	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	12/31/2010	Manganese	Daily	4	10.91	172.75%	1	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	12/31/2010	Manganese	Monthly	2	9.03	351.37%	31	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	1/31/2011	Manganese	Daily	4	6.84	71.08%	1	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	1/31/2011	Manganese	Monthly	2	4.22	110.75%	31	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	2/28/2011	Manganese	Daily	4	11.07	176.75%	1	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	2/28/2011	Manganese	Monthly	2	9.58	378.84%	28	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	3/31/2011	Manganese	Daily	4	7.30	82.40%	1	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	3/31/2011	Manganese	Monthly	2	5.35	167.30%	31	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	8/1/2011	Manganese	Daily	4.00	5.08	27.00%	1	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	8/31/2011	Manganese	Monthly	2.00	2.70	35.00%	31	38 29' 26"	80 36' 10"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	1/14/2013	Manganese	Daily	4.00	4.71	17.75%	1	38° 29' 26"	80° 36' 10"	UT Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	024	1/14/2013	Manganese	Monthly	2.00	2.13	6.50%	31	38° 29' 26"	80° 36' 10"	UT Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	025	10/1/2011	Manganese	Daily	4.00	6.72	68.00%	1	38 29' 21"	80 36' 04"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	025	10/31/2011	Manganese	Monthly	2.00	4.60	130.00%	31	38 29' 21"	80 36' 04"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	10/31/2010	Manganese	Monthly	2	3.46	72.85%	31	38 29' 18"	80 35' 42"	UT Missouri Cr

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	11/30/2010	Manganese	Monthly	2	2.19	9.49%	30	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	12/31/2010	Iron	Daily	2.46	20.89	749.19%	1	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	12/31/2010	Iron	Monthly	1.42	14.62	929.75%	31	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	12/31/2010	Manganese	Daily	4	17.73	343.25%	1	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	12/31/2010	Manganese	Monthly	2	17.18	758.75%	31	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	1/31/2011	Iron	Daily	2.46	6.58	167.36%	1	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	1/31/2011	Iron	Monthly	1.42	6.26	340.74%	31	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	1/31/2011	Manganese	Daily	4	14.93	273.25%	1	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	1/31/2011	Manganese	Monthly	2	14.02	601.00%	31	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	11/1/2011	Manganese	Daily	4.00	11.37	184.25%	1	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	11/30/2011	Manganese	Monthly	2.00	5.78	189.00%	30	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	1/1/2012	Manganese	Daily	4.00	4.02	0.48%	1	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	1/1/2012	Manganese	Daily	4.00	4.21	5.35%	1	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	1/31/2012	Manganese	Monthly	2.00	4.67	133.35%	31	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	028	11/12/2012	Manganese	Daily	4.00	4.69	17.25%	1	38 29' 18"	80 35' 42"	UT Missouri Cr
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	030	11/30/2010	Manganese	Daily	4	4.87	21.68%	1	38 29' 27"	80 35' 47"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	030	11/30/2010	Manganese	Monthly	2	3.80	90.10%	30	38 29' 27"	80 35' 47"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	030	2/28/2011	Manganese	Monthly	2	3.36	67.95%	28	38 29' 27"	80 35' 47"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	030	3/31/2011	Manganese	Daily	4	5.35	33.73%	1	38 29' 27"	80 35' 47"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	030	3/31/2011	Manganese	Monthly	2	3.83	91.50%	31	38 29' 27"	80 35' 47"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	030	4/30/2011	Manganese	Daily	4	4.85	21.13%	1	38 29' 27"	80 35' 47"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	030	4/30/2011	Manganese	Monthly	2	3.24	62.10%	30	38 29' 27"	80 35' 47"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	030	12/31/2011	Manganese	Monthly	2.00	2.11	5.50%	31	38 29' 27"	80 35' 47"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	031	8/31/2009	Manganese	Daily	4	6.72	68.03%	1	38 29' 30"	80 35' 46"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	031	8/31/2009	Manganese	Monthly	2	5.58	178.93%	31	38 29' 30"	80 35' 46"	Missouri Ck

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	031	1/31/2010	Manganese	Daily	4	6.29	57.20%	1	38 29' 30	80 35' 46"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	031	1/31/2010	Manganese	Monthly	2	4.82	140.80%	31	38 29' 30	80 35' 46"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	031	2/28/2010	Manganese	Daily	4	9.62	140.43%	1	38 29' 30	80 35' 46"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	031	2/28/2010	Manganese	Monthly	2	8.83	341.65%	28	38 29' 30	80 35' 46"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	031	3/31/2010	Manganese	Monthly	2	2.11	5.55%	31	38 29' 30	80 35' 46"	Missouri Ck
Brooks Run Mining Company, LLC	WV1009885	S-2010-02	068	5/31/2008	Manganese	Monthly	2	2.02	1.23%	31	38 28' 42"	80 35' 52"	Laurel Fk
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	011	5/31/2008	Aluminum, Total (as Al)	Daily	0.75	0.9993	33.24%	1	38° 29' 55"	80° 38' 01"	Lick Fk
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	011	5/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.5707	32.72%	31	38° 29' 55"	80° 38' 01"	Lick Fk
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	011	5/31/2008	Total Suspended Solids	Daily	70	72	2.86%	1	38° 29' 55"	80° 38' 01"	Lick Fk
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	011	5/31/2008	Total Suspended Solids	Monthly	35	49	40.00%	31	38° 29' 55"	80° 38' 01"	Lick Fk
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	2/28/2009	Aluminum, Total (as Al)	Daily	0.75	3.303	340.40%	1	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	2/28/2009	Aluminum, Total (as Al)	Monthly	0.43	1.4149	229.05%	28	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	2/28/2009	Total Suspended Solids	Daily	70	183	161.43%	1	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	2/28/2009	Total Suspended Solids	Monthly	35	65	85.71%	28	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	5/31/2009	Aluminum, Total (as Al)	Daily	0.75	0.7749	3.32%	1	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	5/31/2010	Aluminum, Total (as Al)	Daily	0.75	0.7945	5.93%	1	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	5/31/2010	Aluminum, Total (as Al)	Monthly	0.43	0.4331	0.72%	31	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	1/31/2011	Aluminum, Total (as Al)	Daily	0.75	2.607	247.60%	1	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	1/31/2011	Aluminum, Total (as Al)	Monthly	0.43	1.5788	267.16%	31	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	1/31/2011	Total Suspended Solids	Daily	70	180	157.14%	1	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	1/31/2011	Total Suspended Solids	Monthly	35	117.5	235.71%	31	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	12/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.48	11.63%	31	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	3/14/2012	Aluminum, Total (as Al)	Daily	0.75	1.13	50.67%	1	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	3/16/2012	Total Suspended Solids	Daily	70	170	142.86%	1	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	3/31/2012	Total Suspended Solids	Monthly	35	51	45.71%	31	38-29-47	80-37-55	Lick Fork/Elk River

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	4/12/2012	Aluminum, Total (as Al)	Daily	0.75	1.01	34.67%	1	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	4/30/2012	Aluminum, Total (as Al)	Monthly	0.43	0.58	34.88%	30	38-29-47	80-37-55	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	10/12/2012	Aluminum	Daily	0.75	1.18	57.33%	1	38° 29' 47"	80° 37' 55"	Lick Fork
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	10/12/2012	Total Suspended Solids	Monthly	35	58	65.71%	31	38° 29' 47"	80° 37' 55"	Lick Fork
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	10/12/2012	Aluminum	Monthly	0.43	1.18	174.42%	31	38° 29' 47"	80° 37' 55"	Lick Fork
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	2/1/2013	Total Suspended Solids	Monthly	35	59.5	41.18%	28	38° 29' 47"	80° 37' 55"	Lick Fork
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	013	Feb-13	Total Suspended Solids	Daily	70	96	27.08%	1	38° 29' 47"	80° 37' 55"	Lick Fork
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	014	3/17/2012	Total Suspended Solids	Daily	70	77	10.00%	1	38-29-44	80-37-51	Lick Fork/Elk River
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	018	5/31/2008	Aluminum, Total (as Al)	Daily	0.75	0.9775	30.33%	1	38° 30' 15"	80° 37' 46"	May Fk
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	018	5/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.5141	19.56%	31	38° 30' 15"	80° 37' 46"	May Fk
Brooks Run Mining Company, LLC	WV1010221	S-1026-90	018	4/30/2009	Manganese	Monthly	2	2.7703	38.52%	30	38° 30' 15"	80° 37' 46"	May Fk
Brooks Run Mining Company, LLC	WV1010506	U-1019-91	001	6/30/2011	Manganese	Monthly	2	3.21	60.50%	30	38 30' 16"	80 38' 09"	May Fork
Brooks Run Mining Company, LLC	WV1010506	U-1019-91	001	7/1/2011	Manganese	Daily	4.00	7.52	88.00%	1	38 30' 16"	80 38' 09"	May Fork
Brooks Run Mining Company, LLC	WV1010506	U-1019-91	001	7/31/2011	Manganese	Monthly	2.00	4.91	145.50%	31	38 30' 16"	80 38' 09"	May Fork
Brooks Run Mining Company, LLC	WV1010506	U-1019-91	001	10/31/2011	Manganese	Monthly	2.00	3.19	59.50%	31	38 30' 16"	80 38' 09"	May Fork
Brooks Run Mining Company, LLC	WV1010506	U-1019-91	001	6/14/2012	Aluminum	Daily	0.75	1.36	81.33%	1	38° 30' 16"	80° 38' 9"	May Fork
Brooks Run Mining Company, LLC	WV1010506	U-1019-91	001	6/15/2012	Aluminum	Monthly	0.43	0.68	58.14%	30	38° 30' 16"	80° 38' 9"	May Fork
Brooks Run Mining Company, LLC	WV1010506	U-1019-91	001	12/1/2012	Manganese	Monthly	2.00	2.90	45.00%	31	38° 30' 16"	80° 38' 9"	May Fork
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	001	2/28/2009	Aluminum, Total (as Al)	Daily	0.75	0.8041	7.21%	1	38° 34' 46"	80° 39' 45"	Little Birch Rv
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	001	4/30/2009	Aluminum, Total (as Al)	Daily	0.75	1.419	89.20%	1	38° 34' 46"	80° 39' 45"	Little Birch Rv
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	001	4/30/2009	Aluminum, Total (as Al)	Monthly	0.43	0.7458	73.44%	30	38° 34' 46"	80° 39' 45"	Little Birch Rv
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	001	7/31/2009	Aluminum, Total (as Al)	Daily	0.75	1.455	94.00%	1	38° 34' 46"	80° 39' 45"	Little Birch Rv
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	001	7/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.7531	75.14%	31	38° 34' 46"	80° 39' 45"	Little Birch Rv
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	001	7/31/2009	Total Suspended Solids	Daily	70	77	10.00%	1	38° 34' 46"	80° 39' 45"	Little Birch Rv
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	001	7/31/2009	Total Suspended Solids	Monthly	35	40.5	15.71%	31	38° 34' 46"	80° 39' 45"	Little Birch Rv

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	001	8/31/2009	Aluminum, Total (as Al)	Daily	0.75	3.918	422.40%	1	38° 34' 46"	80° 39' 45"	Little Birch Rv
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	001	8/31/2009	Aluminum, Total (as Al)	Monthly	0.43	1.503	249.53%	31	38° 34' 46"	80° 39' 45"	Little Birch Rv
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	001	9/30/2009	Aluminum, Total (as Al)	Monthly	0.43	0.454	5.58%	30	38° 34' 46"	80° 39' 45"	Little Birch Rv
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	001	4/30/2011	Aluminum, Total (as Al)	Monthly	0.43	0.5629	30.91%	30	38° 34' 46"	80° 39' 45"	Little Birch Rv
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	007	6/30/2009	Aluminum, Total (as Al)	Monthly	0.43	0.4399	2.30%	30	38-36-01	80-38-58	Unnamed trib of Left Fork of Wolf Creek/Elk River
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	007	10/1/2011	Aluminum, Total (as Al)	Daily	0.75	1.38	84.00%	1	38-36-01	80-38-58	Unnamed trib of Left Fork of Wolf Creek/Elk River
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	007	10/31/2011	Aluminum, Total (as Al)	Monthly	0.43	1.34	211.63%	31	38-36-01	80-38-58	Unnamed trib of Left Fork of Wolf Creek/Elk River
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	007	11/1/2011	Aluminum, Total (as Al)	Daily	0.75	1.30	73.33%	1	38-36-01	80-38-58	Unnamed trib of Left Fork of Wolf Creek/Elk River
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	007	11/30/2011	Aluminum, Total (as Al)	Monthly	0.43	0.71	65.12%	30	38-36-01	80-38-58	Unnamed trib of Left Fork of Wolf Creek/Elk River
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	007	12/1/2011	Aluminum, Total (as Al)	Daily	0.75	1.67	122.67%	1	38-36-01	80-38-58	Unnamed trib of Left Fork of Wolf Creek/Elk River
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	007	12/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.96	123.26%	31	38-36-01	80-38-58	Unnamed trib of Left Fork of Wolf Creek/Elk River
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	007	3/7/2012	Aluminum, Total (as Al)	Daily	0.75	1.66	121.33%	1	38-36-01	80-38-58	Unnamed trib of Left Fork of Wolf Creek/Elk River
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	007	3/31/2012	Aluminum, Total (as Al)	Monthly	0.43	0.81	88.37%	31	38-36-01	80-38-58	Unnamed trib of Left Fork of Wolf Creek/Elk River
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	007	5/2/2012	Aluminum, Total (as Al)	Daily	0.75	1.79	138.67%	1	38-36-01	80-38-58	Unnamed trib of Left Fork of Wolf Creek/Elk River

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1010514	U-1026-91	007	5/31/2012	Aluminum, Total (as Al)	Monthly	0.43	0.96	123.26%	31	38-36-01	80-38-58	Unnamed trib of Left Fork of Wolf Creek/Elk River
Brooks Run Mining Company, LLC	WV1013793	U-2005-93	001	5/31/2008	Manganese	Monthly	2	2.373	18.65%	31	38° 29' 34"	80° 37' 42"	May Fk
Brooks Run Mining Company, LLC	WV1013793	U-2005-93	001	12/31/2009	Manganese	Daily	4	4.305	7.62%	1	38° 29' 34"	80° 37' 42"	May Fk
Brooks Run Mining Company, LLC	WV1013793	U-2005-93	001	12/31/2009	Manganese	Monthly	2	2.29	14.50%	31	38° 29' 34"	80° 37' 42"	May Fk
Brooks Run Mining Company, LLC	WV1013793	U-2005-93	001	1/31/2011	Manganese	Monthly	2	2.227	11.35%	31	38° 29' 34"	80° 37' 42"	May Fk
Brooks Run Mining Company, LLC	WV1013793	U-2005-93	001	2/28/2011	Manganese	Monthly	2	3.055	52.75%	28	38° 29' 34"	80° 37' 42"	May Fk
Brooks Run Mining Company, LLC	WV1013793	U-2005-93	001	3/31/2011	Manganese	Monthly	2	2.3445	17.23%	31	38° 29' 34"	80° 37' 42"	May Fk
Brooks Run Mining Company, LLC	WV1013793	U-2004-93	002	8/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.7396	72.00%	31	38° 29' 35"	80° 37' 41"	Lick Fk
Brooks Run Mining Company, LLC	WV1013793	U-2004-93	002	1/31/2011	Aluminum, Total (as Al)	Daily	1.81	2.013	11.22%	1	38° 29' 35"	80° 37' 41"	Lick Fk
Brooks Run Mining Company, LLC	WV1013793	U-2004-93	002	1/31/2011	Aluminum, Total (as Al)	Monthly	1.04	1.1139	7.11%	31	38° 29' 35"	80° 37' 41"	Lick Fk
Brooks Run Mining Company, LLC	WV1013793	U-2004-93	002	1/31/2011	Total Suspended Solids	Daily	70	100	42.86%	1	38° 29' 35"	80° 37' 41"	Lick Fk
Brooks Run Mining Company, LLC	WV1013793	U-2004-93	002	1/31/2011	Total Suspended Solids	Monthly	35	69.3333	98.10%	31	38° 29' 35"	80° 37' 41"	Lick Fk
Brooks Run Mining Company, LLC	WV1013793	U-2004-93, U-2005-93	002	6/12/2012	Total Suspended Solids	Monthly	35	49	40.00%	30	38° 29' 35"	80° 37' 41"	Lick Fork
Brooks Run Mining Company, LLC	WV1013793	U-2005-93	003	1/31/2011	Iron	Monthly	3	3.6205	20.68%	31	38° 29' 41"	80° 37' 46"	May Fk
Brooks Run Mining Company, LLC	WV1016130	U-4016-94	005	2/28/2010	Aluminum, Total (as Al)	Daily	0.75	1.27	69.33%	1	37 17' 20"	81 36' 20"	Big Ck
Brooks Run Mining Company, LLC	WV1016130	U-4016-94	005	2/28/2010	Aluminum, Total (as Al)	Monthly	0.43	0.71	63.95%	28	37 17' 20"	81 36' 20"	Big Ck
Brooks Run Mining Company, LLC	WV1016130	U-4016-94	006	11/1/2012	Aluminum	Daily	0.75	0.78	4.00%	1	37 18' 20"	81 38' 30"	Big Ck
Brooks Run Mining Company, LLC	WV1016130	U-4016-94	009	3/31/2010	Iron	Monthly	0.22	0.23	2.27%	31	37 17' 52"	81 37' 36"	Lower Trace Fk
Brooks Run Mining Company, LLC	WV1016130	U-4016-94	009	4/30/2010	Aluminum, Total (as Al)	Daily	0.75	0.89	18.67%	1	37 17' 52"	81 37' 36"	Lower Trace Fk
Brooks Run Mining Company, LLC	WV1016130	U-4016-94	009	4/30/2010	Aluminum, Total (as Al)	Monthly	0.43	0.62	44.19%	30	37 17' 52"	81 37' 36"	Lower Trace Fk
Brooks Run Mining Company, LLC	WV1016130	U-4016-94	009	6/20/2012	Iron	Daily	0.38	0.94	147.37%	1	37° 17' 52.00"	81° 37' 36.00"	Lower Trace Fork
Brooks Run Mining Company, LLC	WV1016130	U-4016-94	009	6/30/2012	Iron	Monthly	0.22	0.51	131.82%	30	37° 17' 52.00"	81° 37' 36.00"	Lower Trace Fork
Brooks Run Mining Company, LLC	WV1016130	U-4016-94	009	7/1/2012	Iron	Monthly	0.22	0.42	90.91%	31	37° 17' 52.00"	81° 37' 36.00"	Lower Trace Fork
Brooks Run Mining Company, LLC	WV1016130	U-4016-94	009	7/17/2012	Iron	Daily	0.38	0.42	10.53%	1	37° 17' 52.00"	81° 37' 36.00"	Lower Trace Fork

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	5/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.483	97.73%	1	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	5/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.9601	123.28%	31	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	7/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.584	111.20%	1	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	7/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.8463	96.81%	31	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	8/31/2008	Aluminum, Total (as Al)	Daily	0.75	0.8933	19.11%	1	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	8/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.5455	26.86%	31	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	2/28/2009	Aluminum, Total (as Al)	Daily	0.75	3.392	352.27%	1	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	2/28/2009	Aluminum, Total (as Al)	Monthly	0.43	2.0806	383.86%	28	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	2/28/2009	Manganese	Monthly	2	2.3145	15.73%	28	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	3/31/2009	Aluminum, Total (as Al)	Daily	0.75	1.155	54.00%	1	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	3/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.6033	40.30%	31	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	4/30/2009	Aluminum, Total (as Al)	Monthly	0.43	0.5045	17.33%	30	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	5/31/2009	Aluminum, Total (as Al)	Daily	0.75	1.025	36.67%	1	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98	001	5/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.5775	34.30%	31	38° 29' 17"	80° 36' 33"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2009-00	004	2/28/2011	Aluminum, Total (as Al)	Daily	0.75	1.566	108.80%	1	38° 28' 29"	80° 35' 55"	Laurel Fk
Brooks Run Mining Company, LLC	WV1017977	U-2009-00	004	2/28/2011	Aluminum, Total (as Al)	Monthly	0.43	1.001	132.79%	28	38° 28' 29"	80° 35' 55"	Laurel Fk
Brooks Run Mining Company, LLC	WV1017977	U-2009-00	004	3/31/2011	Aluminum, Total (as Al)	Daily	0.75	2.604	247.20%	1	38° 28' 29"	80° 35' 55"	Laurel Fk
Brooks Run Mining Company, LLC	WV1017977	U-2009-00	004	3/31/2011	Aluminum, Total (as Al)	Monthly	0.43	1.6805	290.81%	31	38° 28' 29"	80° 35' 55"	Laurel Fk
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	006	7/31/2010	Manganese	Monthly	2	2.589	29.45%	31	38° 29' 48"	80° 35' 38"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	006	11/30/2010	Manganese	Monthly	2	2.3103	15.52%	30	38° 29' 48"	80° 35' 38"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	006	12/31/2010	Manganese	Daily	4	4.608	15.20%	1	38° 29' 48"	80° 35' 38"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	006	12/31/2010	Manganese	Monthly	2	4.018	100.90%	31	38° 29' 48"	80° 35' 38"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	006	1/31/2011	Manganese	Monthly	2	2.947	47.35%	31	38° 29' 48"	80° 35' 38"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98, U-2002-00, U-2003-00, U2004-00	006	12/31/2011	Manganese	Monthly	2.00	2.50	25.00%	31	38° 29' 48"	80° 35' 38"	Missouri Ck

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1017977	U-2014-98, U-2002-00, U-2003-00, U2004-00	006	11/13/2012	Manganese	Monthly	2.00	3.42	71.00%	30	38° 29' 48"	80° 35' 38"	UT Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	006	Apr-13	pH	Daily	9.0	9.7	7.22%	1	38° 29' 48"	80° 35' 38"	UT Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	007	6/30/2008	Aluminum, Total (as Al)	Monthly	0.43	0.485	12.79%	30	38° 29' 47"	80° 35' 36"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	007	7/31/2008	Aluminum, Total (as Al)	Daily	0.75	0.9679	29.05%	1	38° 29' 47"	80° 35' 36"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	007	7/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.6814	58.47%	31	38° 29' 47"	80° 35' 36"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	007	2/28/2009	Aluminum, Total (as Al)	Daily	0.75	1.738	131.73%	1	38° 29' 47"	80° 35' 36"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	007	2/28/2009	Aluminum, Total (as Al)	Monthly	0.43	0.769	78.84%	28	38° 29' 47"	80° 35' 36"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	007	12/31/2009	Aluminum, Total (as Al)	Daily	0.75	0.9907	32.09%	1	38° 29' 47"	80° 35' 36"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2002-00	007	11/30/2010	Aluminum, Total (as Al)	Daily	0.75	1.009	34.53%	1	38° 29' 47"	80° 35' 36"	Missouri Ck
Brooks Run Mining Company, LLC	WV1017977	U-2014-98, U-2002-00, U-2003-00, U2004-00	007	11/14/2012	Manganese	Monthly	2.00	2.08	4.00%	30	38° 29' 47"	80° 35' 36"	UT Missouri Ck
Brooks Run Mining Company, LLC	WV1018078	U-2011-05	001	5/31/2008	Aluminum, Total (as Al)	Daily	0.75	0.82	9.20%	1	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2011-05	001	5/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.57	32.30%	31	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2011-05	001	6/30/2008	Aluminum, Total (as Al)	Daily	0.75	3.53	370.80%	1	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2011-05	001	6/30/2008	Aluminum, Total (as Al)	Monthly	0.43	1.86	332.60%	30	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2011-05	001	7/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.81	140.67%	1	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2011-05	001	7/31/2008	Aluminum, Total (as Al)	Monthly	0.43	1.40	224.42%	31	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2011-05	001	12/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.47	96.00%	1	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2011-05	001	12/31/2008	Aluminum, Total (as Al)	Monthly	0.43	1.47	241.86%	31	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1018078	U-2011-05	001	3/31/2011	Manganese	Monthly	2	2.11	5.48%	31	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2014-00, U-2015-00, U-2010-05, U-2011-05	001	11/30/2011	Manganese	Monthly	2.00	2.69	34.50%	30	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2014-00, U-2015-00, U-2010-05, U-2011-05	001	12/31/2011	Manganese	Monthly	2.00	2.51	25.50%	31	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2011-05, U-2010-05, U2015-00, U-2014-00	001	2/28/2012	Manganese	Monthly	2	2.07	3.50%	28	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2014-00, U-2015-00, U-2010-05, U-2011-05	001	3/31/2012	Manganese	Monthly	2.00	2.00	0.15%	31	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2014-00, U-2010-05, U-2011-05	001	5/2/2012	Manganese	Daily	4	4.41	10.25%	1	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2014-00, U-2010-05, U-2011-05	001	5/31/2012	Manganese	Monthly	2	2.61	30.50%	31	38-32-11	80-41-38	Unnamed Trib. of Carpenter Fork/Elk River
Brooks Run Mining Company, LLC	WV1018078	U-2014-00, U-2010-05, U-2011-05	001	1/13/2013	Manganese	Monthly	2.00	3.22	61.00%	31	38° 32' 11"	80° 41' 38"	UT Carpenter Fork
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	5/31/2008	Aluminum, Total (as Al)	Daily	0.44	1.29	192.95%	1	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	5/31/2008	Aluminum, Total (as Al)	Monthly	0.254	0.69	173.27%	31	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	6/30/2008	Aluminum, Total (as Al)	Monthly	0.254	0.35	38.90%	30	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	7/31/2008	Aluminum, Total (as Al)	Daily	0.44	4.49	921.14%	1	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	7/31/2008	Aluminum, Total (as Al)	Monthly	0.254	1.68	562.99%	31	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	8/31/2008	Aluminum, Total (as Al)	Daily	0.44	0.89	101.64%	1	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	8/31/2008	Aluminum, Total (as Al)	Monthly	0.254	0.48	88.62%	31	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	1/31/2009	Aluminum, Total (as Al)	Daily	0.44	5.42	1130.91%	1	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	1/31/2009	Aluminum, Total (as Al)	Monthly	0.254	2.75	983.58%	31	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	2/28/2009	Aluminum, Total (as Al)	Daily	0.44	1.15	162.05%	1	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	2/28/2009	Aluminum, Total (as Al)	Monthly	0.254	0.59	131.89%	28	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	3/31/2009	Aluminum, Total (as Al)	Daily	0.44	0.90	105.39%	1	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	3/31/2009	Aluminum, Total (as Al)	Monthly	0.254	0.45	75.31%	31	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	4/30/2009	Aluminum, Total (as Al)	Daily	0.44	0.61	38.14%	1	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	4/30/2009	Aluminum, Total (as Al)	Monthly	0.254	0.43	70.20%	30	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	5/31/2009	Aluminum, Total (as Al)	Monthly	0.254	0.31	20.08%	31	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	6/30/2009	Iron	Daily	1.2	1.31	9.00%	1	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	1/31/2010	Iron	Daily	1.2	1.30	8.33%	1	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	1/31/2010	Total Suspended Solids	Daily	70	94.00	34.29%	1	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	1/31/2010	Total Suspended Solids	Monthly	35	47.00	34.29%	31	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018108	U-2021-00	001	3/18/2012	Iron	Daily	1.2	1.41	17.50%	1	38-27-45	80-39-23	Unnamed Trib of Barnett Run/Elk River
Brooks Run Mining Company, LLC	WV1018621	U-4004-98	001	2/3/2013	Total Aluminum	Daily	.75	.92	22.67%	1	37° 36' 45"	81° 24' 58"	Still Run
Brooks Run Mining Company, LLC	WV1019031	U-4001-01	001	3/31/2010	Aluminum, Total (as Al)	Monthly	0.94	1.15	21.99%	31	37° 17' 10"	81° 38' 14"	Lower Trace Fk
Brooks Run Mining Company, LLC	WV1019031	U-4001-01	001	4/30/2010	Aluminum, Total (as Al)	Daily	1.64	3.14	91.46%	1	37° 17' 10"	81° 38' 14"	Lower Trace Fk
Brooks Run Mining Company, LLC	WV1019031	U-4001-01	001	4/30/2010	Aluminum, Total (as Al)	Monthly	0.94	1.64	73.94%	30	37° 17' 10"	81° 38' 14"	Lower Trace Fk

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Brooks Run Mining Company, LLC	WV1019031	U-4001-01	001	5/31/2010	Aluminum, Total (as Al)	Daily	1.64	2.11	28.66%	1	37°17'10"	81°38'14"	Lower Trace Fk
Brooks Run Mining Company, LLC	WV1019031	U-4001-01	001	5/31/2010	Aluminum, Total (as Al)	Monthly	0.94	1.26	33.51%	31	37°17'10"	81°38'14"	Lower Trace Fk
Brooks Run Mining Company, LLC	WV1019031	U-4001-01	001	8/31/2010	Aluminum, Total (as Al)	Daily	1.64	5.11	211.59%	1	37°17'10"	81°38'14"	Lower Trace Fk
Brooks Run Mining Company, LLC	WV1019031	U-4001-01	001	8/31/2010	Aluminum, Total (as Al)	Monthly	0.94	2.68	185.11%	31	37°17'10"	81°38'14"	Lower Trace Fk
Brooks Run Mining Company, LLC	WV1019031	U-4001-01	001	9/30/2010	Aluminum, Total (as Al)	Daily	1.64	3.28	100.00%	1	37°17'10"	81°38'14"	Lower Trace Fk
Brooks Run Mining Company, LLC	WV1019031	U-4001-01	001	9/30/2010	Aluminum, Total (as Al)	Monthly	0.94	1.15	22.07%	30	37°17'10"	81°38'14"	Lower Trace Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	6/30/2009	Chlorine, Total Residual	Daily	28	1500.00	5257.14%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	8/31/2009	Coliform, Fecal	Daily	400	905.00	126.25%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	8/31/2009	Coliform, Fecal	Monthly	200	453.00	126.50%	31	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	9/30/2009	Coliform, Fecal	Daily	400	2470.00	517.50%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	9/30/2009	Coliform, Fecal	Daily	400	3195	698.75%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	9/30/2009	Coliform, Fecal	Monthly	200	2470.00	1135.00%	30	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	9/30/2009	Coliform, Fecal	Monthly	200	3195	1497.50%	30	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	12/1/2009	Nitrogen, Kjeldahl Total	Daily	1.2	2.07	72.50%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	12/31/2009	Dissolved Oxygen	Monthly	6	5.22	-13.00%	31	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	12/31/2009	Nitrogen, Kjeldahl Total	Daily	18	31.08	72.67%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	12/31/2009	Nitrogen, Kjeldahl Total	Monthly	9	31.08	245.33%	31	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	12/31/2009	Nitrogen, Kjeldahl Total	Monthly	0.6	2.07	245.00%	31	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2010	Nitrogen, Kjeldahl Total	Daily	18	25.20	40.00%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2010	Nitrogen, Kjeldahl Total	Monthly	9	24.99	177.67%	31	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2010	Nitrogen, Kjeldahl Total	Daily	1.2	1.681	40.08%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2010	Nitrogen, Kjeldahl Total	Monthly	0.6	1.667	177.83%	31	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	6/30/2010	Coliform, Fecal	Daily	400	495	23.75%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	6/30/2010	Coliform, Fecal	Monthly	200	495	147.50%	30	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	6/30/2010	Nitrogen, Kjeldahl Total	Daily	18	19.88	10.44%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	6/30/2010	Nitrogen, Kjeldahl Total	Monthly	9	19.88	120.89%	30	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	6/30/2010	Total Suspended Solids	Monthly	15	17.00	13.33%	30	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	6/30/2010	Nitrogen, Kjeldahl Total	Daily	1.2	1.3264	10.53%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	6/30/2010	Nitrogen, Kjeldahl Total	Monthly	0.6	1.3264	121.07%	30	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	6/30/2010	Total Suspended Solids	Monthly	1	1.134	13.40%	30	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	9/1/2010	Total Suspended Solids	Daily	1	1.53	53.00%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	9/30/2010	Nitrogen, Kjeldahl Total	Daily	18	36.12	100.67%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	9/30/2010	Nitrogen, Kjeldahl Total	Monthly	9	36.12	301.33%	30	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	9/30/2010	Total Suspended Solids	Monthly	15	23.00	53.33%	30	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	9/30/2010	Nitrogen, Kjeldahl Total	Daily	1.2	2.41	100.83%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	9/30/2010	Nitrogen, Kjeldahl Total	Monthly	0.6	2.41	301.67%	30	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	12/31/2010	Nitrogen, Kjeldahl Total	Daily	18	22.96	27.56%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	12/31/2010	Nitrogen, Kjeldahl Total	Monthly	9	22.96	155.11%	31	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2011	BOD, 5-Day 20 Deg.C	Daily	30	43.90	46.33%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2011	BOD, 5-Day 20 Deg.C	Monthly	15	29.55	97.00%	31	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2011	Nitrogen, Kjeldahl Total	Daily	18	48.70	170.56%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2011	Nitrogen, Kjeldahl Total	Monthly	9	33.03	267.00%	31	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2011	BOD, 5-Day 20 Deg.C	Daily	2	2.929	46.45%	1	37 36' 59"	81 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2011	BOD, 5-Day 20 Deg.C	Monthly	1	1.972	97.20%	31	37 36' 59"	81 59' 43"	Left Fk

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2011	Nitrogen, Kjeldahl Total	Daily	1.2	3.249	170.75%	1	37° 36' 59"	81° 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV0096253	U-5038-97	403	3/31/2011	Nitrogen, Kjeldahl Total	Monthly	0.6	2.204	267.33%	31	37° 36' 59"	81° 59' 43"	Left Fk
Cobra Natural Resources, LLC	WV1005201	O-5007-88	003	1/31/2009	Aluminum, Total (as Al)	Daily	0.75	4.22	462.67%	1	37° 38' 22"	82° 06' 07"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	003	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	2.245	422.09%	31	37° 38' 22"	82° 06' 07"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	003	11/1/2011	Aluminum, Total (as Al)	Daily	0.75	0.88	17.33%	1	37° 38' 22"	82° 06' 07"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	005	6/30/2010	Iron	Daily	5.26	9.53	81.18%	1	37° 37' 55"	82° 06' 07"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	005	6/30/2010	Iron	Monthly	3	4.89	63.00%	30	37° 37' 55"	82° 06' 07"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	006	12/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.03	37.33%	1	37° 38' 00"	82° 05' 58"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	006	12/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.655	52.33%	31	37° 38' 00"	82° 05' 58"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	006	1/31/2009	Aluminum, Total (as Al)	Daily	0.75	19.53	2504.00%	1	37° 38' 00"	82° 05' 58"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	006	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	7.0333	1535.65%	31	37° 38' 00"	82° 05' 58"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	006	1/31/2009	Iron	Daily	5.26	9.94	88.97%	1	37° 38' 00"	82° 05' 58"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	006	1/31/2009	Iron	Monthly	3	3.5866	19.55%	31	37° 38' 00"	82° 05' 58"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	006	1/31/2009	Total Suspended Solids	Daily	70	108.6	55.14%	1	37° 38' 00"	82° 05' 58"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	006	1/31/2009	Total Suspended Solids	Monthly	35	46.2	32.00%	31	37° 38' 00"	82° 05' 58"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	006	5/31/2009	Aluminum, Total (as Al)	Daily	0.75	2.06	174.67%	1	37° 38' 00"	82° 05' 58"	Mate Ck
Cobra Natural Resources, LLC	WV1005201	O-5007-88	006	5/31/2009	Aluminum, Total (as Al)	Monthly	0.43	1.105	156.98%	31	37° 38' 00"	82° 05' 58"	Mate Ck
Cobra Natural Resources, LLC	WV1010581	U-5005-90	001	9/30/2009	Settleable Solids	Daily	0.5	<2		1	37° 38' 59"	82° 00' 35"	Pigeon Ck
Cobra Natural Resources, LLC	WV1013343	S-5023-92, U5035-92, et. Al	001	11/1/2011	Aluminum, Total (as Al)	Daily	0.75	1.9	153.33%	1	37° 38' 56.0000"	81° 57' 53.0000"	Horsepen Ck
Cobra Natural Resources, LLC	WV1013343	S-5023-92, U5035-92, et. Al	001	11/30/2011	Aluminum, Total (as Al)	Monthly	0.43	1.1	155.81%	30	37° 38' 56.0000"	81° 57' 53.0000"	Horsepen Ck
Cobra Natural Resources, LLC	WV1013343	S-5033-92, U-5035-92, U-5037-92, U-5044-91, U-5045-91	001	10/31/2012	Aluminum	Monthly	0.43	0.506	17.67%	31	37° 38' 56.0000"	81° 57' 53.0000"	Horsepen Ck/Gilbert Ck.
Cobra Natural Resources, LLC	WV1016288	O-0026-85	012	6/30/2009	Aluminum, Total (as Al)	Daily	0.75	1.00	33.33%	1	37° 36' 13"	82° 56' 50"	Left Fk
Cobra Natural Resources, LLC	WV1016288	O-0026-85	012	6/30/2009	Aluminum, Total (as Al)	Monthly	0.43	0.69	60.93%	30	37° 36' 13"	82° 56' 50"	Left Fk
Cobra Natural Resources, LLC	WV1016288	O-28-85, O-5023-86, et. al	012	12/1/2011	Aluminum, Total (as Al)	Daily	0.75	0.857	14.27%	1	37° 36' 13"	82° 56' 50"	Left Fk
Cobra Natural Resources, LLC	WV1016288	O-28-85, O-5023-86, et. al	012	12/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.857	99.30%	31	37° 36' 13"	82° 56' 50"	Left Fk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	2/1/2012	Aluminum, Total (as Al)	Daily	0.75	1.7	126.67%	1	37° 36' 13"	82° 56' 50"	Left Fk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	2/28/2012	Aluminum, Total (as Al)	Monthly	0.43	1.06	146.51%	28	37° 36' 13"	82° 56' 50"	Left Fk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	3/1/2012	Aluminum	Monthly	0.43	1.48	244.19%	31	37° 36' 13.00"	81° 56' 50.00"	Left Fork Bens Crk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	3/1/2012	Aluminum	Daily	0.75	2.7	260.00%	1	37° 36' 13.00"	81° 56' 50.00"	Left Fork Bens Crk

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	4/1/2012	Aluminum	Daily	0.75	1.2	60.00%	1	37° 36' 13.00"	81° 56' 50.00"	Left Fork Bens Crk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	4/1/2012	Aluminum	Monthly	0.43	1.2	179.07%	30	37° 36' 13.00"	81° 56' 50.00"	Left Fork Bens Crk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	4/1/2012	Manganese	Monthly	2	2.26	13.00%	30	37° 36' 13.00"	81° 56' 50.00"	Left Fork Bens Crk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	7/31/2012	Manganese	Monthly	2	2.28	14.00%	31	37° 36' 13.00"	81° 56' 50.00"	Left Fork Bens Crk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	8/20/2012	Aluminum	Daily	0.75	19.3	2473.33%	1	37° 36' 13.00"	81° 56' 50.00"	Left Fork Bens Crk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	8/31/2012	Iron	Monthly	3	4.74	58.00%	31	37° 36' 13.00"	81° 56' 50.00"	Left Fork Bens Crk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	8/31/2012	Manganese	Monthly	2	3.1	55.00%	31	37° 36' 13.00"	81° 56' 50.00"	Left Fork Bens Crk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	8/31/2012	Aluminum	Monthly	0.43	19.3	4388.37%	31	37° 36' 13.00"	81° 56' 50.00"	Left Fork Bens Crk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	1/8/2013	Aluminum	Daily	0.75	2.4	220.00%	1	37° 37' 42.00"	81° 58' 40.00"	Left Fork of Bens Creek
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	1/28/2013	Aluminum	Daily	0.75	1.8	140.00%	1	37° 37' 42.00"	81° 58' 40.00"	Left Fork of Bens Creek
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	012	1/31/2013	Aluminum	Monthly	.43	2.1	388.37%	31	37° 37' 42.00"	81° 58' 40.00"	Left Fork of Bens Creek
Cobra Natural Resources, LLC	WV1016288	O-5023-86	060	4/30/2011	Aluminum, Total (as Al)	Monthly	0.06	0.06	1.67%	30	37 37' 42"	81 58' 40"	Left Fk
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	060	7/12/2012	Aluminum	Daily	0.10	0.104	4.00%	1	37 37' 42"	81 58' 40"	Left Fork of Bens Creek
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	060	7/31/2012	Aluminum	Monthly	0.06	0.077	28.33%	31	37 37' 42"	81 58' 40"	Left Fork of Bens Creek
Cobra Natural Resources, LLC	WV1016288	O-0026-85, O-5023-86, et al.	060	8/15/2012	Aluminum	Monthly	0.06	0.071	18.33%	31	37 37' 42"	81 58' 40"	Left Fork of Bens Creek
Cumberland Coal Resources, LP	PA0013511	30831303	001	2/29/2012	Total Suspended Solids	Monthly	35	38	8.57%	29	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	001	3/15/2012	Total Suspended Solids	Daily	70	106	51.43%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	001	3/31/2012	Total Suspended Solids	Monthly	35	74	111.43%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	001	4/19/2012	Iron	Daily	6	57.646	860.77%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	001	4/19/2012	Manganese	Daily	4	5.682	42.05%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	001	4/19/2012	Total Suspended Solids	Daily	70	838	1097.14%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	001	4/30/2012	Iron	Monthly	3	29	866.67%	30	39-37-45	80-09-30	Whiteley Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	001	4/30/2012	Manganese	Monthly	2	2.9	45.00%	30	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	001	4/30/2012	Total Suspended Solids	Monthly	35	430	1128.57%	30	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	001	5/17/2012	Total Suspended Solids	Daily	70	108	54.29%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	001	5/31/2012	Aluminum	Monthly	0.6	1.1	83.33%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	001	5/31/2012	Total Suspended Solids	Monthly	35	72	105.71%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	4/24/2012	Total Suspended Solids	Daily	70	82	17.14%	1	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	4/30/2012	Aluminum	Monthly	0.5	0.74	48.00%	30	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	4/30/2012	Manganese	Monthly	0.77	1.1	42.86%	30	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	4/30/2012	Total Suspended Solids	Monthly	35	82	134.29%	30	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	5/9/2012	Aluminum	Daily	0.78	2.441	212.95%	1	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	5/9/2012	Iron	Daily	2.3	3.141	36.57%	1	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	5/9/2012	Osmotic Pressure	Daily	50	70	40.00%	1	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	5/9/2012	Total Suspended Solids	Daily	70	199	184.29%	1	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	5/31/2012	Aluminum	Monthly	0.5	2.44	388.00%	31	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	5/31/2012	Iron	Monthly	1.5	3.1	106.67%	31	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	5/31/2012	Osmotic Pressure	Monthly	50	70	40.00%	31	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	5/31/2012	Total Suspended Solids	Monthly	35	199	468.57%	31	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	7/31/2012	Aluminum	Monthly	0.5	0.54	8.00%	31	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	006	7/31/2012	Total Suspended Solids	Monthly	35	48	37.14%	31	39-47-43	80-09-31	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	8/31/2008	Osmotic Pressure	Monthly	50	79	58.00%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	8/3/2009	pH	Daily	<9	9.8	9%	1	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	10/5/2009	pH	Daily	<9	9.5	6%	1	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	10/22/2009	pH	Daily	<9	9.3	3%	1	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	10/22/2009	Total Suspended Solids	Daily	70	73	4%	1	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	10/31/2009	Osmotic Pressure	Monthly	50	72	44.00%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	10/31/2009	Total Suspended Solids	Monthly	35	61.5	76%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	11/2/2009	Aluminum	Daily	1	1.3	30%	1	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	11/2/2009	pH	Daily	<9	9.2	2%	1	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	11/30/2009	Osmotic Pressure	Monthly	50	68	36.00%	30	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	11/30/2009	Total Suspended Solids	Monthly	35	57	63%	30	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	12/7/2009	Total Suspended Solids	Daily	70	74	6%	1	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	12/17/2009	Total Suspended Solids	Daily	70	84	20%	1	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	12/31/2009	Aluminum	Monthly	0.5	0.75	50%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	12/31/2009	Iron	Monthly	1.5	1.65	10%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	12/31/2009	Osmotic Pressure	Monthly	50	59	18.00%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	12/31/2009	Total Suspended Solids	Monthly	35	79	126%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	1/22/2010	Iron	Daily	3	9.1	203%	1	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	1/31/2010	Aluminum	Monthly	0.5	0.7	40%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	1/31/2010	Iron	Monthly	1.5	5	233%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	1/31/2010	Osmotic Pressure	Monthly	50	61.5	23.00%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	1/31/2010	Total Suspended Solids	Monthly	35	36	3%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	2/28/2010	Aluminum	Monthly	0.5	0.6	20%	28	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	2/28/2010	Iron	Monthly	1.5	1.7	13%	28	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	12/31/2010	Aluminum	Monthly	0.5	0.9	80%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	11/30/2011	Aluminum	Monthly	0.5	1.3	160%	30	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	5/3/2012	Osmotic Pressure	Daily	50	400	700.00%	1	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	5/31/2012	Osmotic Pressure	Monthly	50	204	308.00%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	7/5/2012	Osmotic Pressure	Daily	50	70	40.00%	1	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	015	8/31/2012	Manganese	Monthly	0.77	0.87	12.99%	31	39-47-47	80-09-13	Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	016	5/3/2012	Settleable Solids	Daily	0.5	1	100.00%	1	39-47-45	80-09-15	Patterson Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	020	12/31/2007	Osmotic Pressure	Monthly	50	55.5	11.00%	31	39-47-28	80-07-34	Trib of Whitely Creek
Cumberland Coal Resources, LP	PA0013511	30831303	020	1/13/2011	Manganese	Daily	2	2.3	15%	1	39-47-28	80-07-34	Trib of Whitely Creek
Cumberland Coal Resources, LP	PA0013511	30831303	020	1/31/2011	Manganese	Monthly	1	1.35	35%	31	39-47-28	80-07-34	Trib of Whitely Creek
Cumberland Coal Resources, LP	PA0013511	30831303	020	3/22/2011	Manganese	Daily	2	2.7	35%	1	39-47-28	80-07-34	Trib of Whitely Creek
Cumberland Coal Resources, LP	PA0013511	30831303	020	3/31/2011	Manganese	Monthly	1	1.5	50%	31	39-47-28	80-07-34	Trib of Whitely Creek
Cumberland Coal Resources, LP	PA0013511	30831303	020	5/3/2011	Manganese	Daily	2	2.3	15%	1	39-47-28	80-07-34	Trib of Whitely Creek
Cumberland Coal Resources, LP	PA0013511	30831303	020	5/12/2011	Manganese	Daily	2	2.2	10%	1	39-47-28	80-07-34	Trib of Whitely Creek
Cumberland Coal Resources, LP	PA0013511	30831303	020	5/31/2011	Manganese	Monthly	1	2.25	125%	31	39-47-28	80-07-34	Trib of Whitely Creek
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/17/2006	Manganese	Daily	4	5.6	40%	1	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/31/2007	Manganese	Monthly	2	5.6	180%	31	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	12/17/2009	Aluminum	Daily	3.8	4.2	11%	1	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	12/17/2009	Iron	Daily	6	7.3	22%	1	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	12/17/2009	Total Suspended Solids	Daily	70	245	250%	1	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	12/31/2009	Aluminum	Monthly	1.9	2.55	34%	31	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	12/31/2009	Iron	Monthly	3	4.3	43%	31	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	12/31/2009	Total Suspended Solids	Monthly	35	144.5	313%	31	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	9/30/2011	Total Suspended Solids	Monthly	35	37	6%	30	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	5/3/2012	Osmotic Pressure	Daily	50	200	300.00%	1	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	5/17/2012	Osmotic Pressure	Daily	50	70	40.00%	1	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	5/31/2012	Osmotic Pressure	Monthly	50	135	170.00%	31	39-48-39	80-10-12	U.N.T to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	6/5/2012	Iron	Daily	6	7.8	30.00%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	6/5/2012	Total Suspended Solids	Daily	70	180	157.14%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	6/20/2012	Iron	Daily	6	9.6	60.00%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	6/20/2012	Manganese	Daily	4	5.6	40.00%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	6/20/2012	Total Suspended Solids	Daily	70	158	125.71%	1	39-48-39	80-10-12	UNT to Patterson Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	021	6/30/2012	Manganese	Monthly	2	4.08	104.00%	30	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	6/30/2012	Iron	Monthly	3	8.7	190.00%	30	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	6/30/2012	Total Suspended Solids	Monthly	35	169	382.86%	30	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/5/2012	Aluminum	Daily	3.8	8.984	136.42%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/5/2012	Iron	Daily	6	24.57	309.50%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/5/2012	Manganese	Daily	4	11.307	182.68%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/5/2012	Osmotic Pressure	Daily	50	70	40.00%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/5/2012	Total Suspended Solids	Daily	70	201	187.14%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/16/2012	Iron	Daily	6	9.325	55.42%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/16/2012	Manganese	Daily	4	6.125	53.13%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/16/2012	Total Suspended Solids	Daily	70	390	457.14%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/31/2012	Aluminum	Monthly	1.9	5.53	191.05%	31	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/31/2012	Manganese	Monthly	2	8.72	336.00%	31	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/31/2012	Iron	Monthly	3	17	466.67%	31	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	7/31/2012	Total Suspended Solids	Monthly	35	295.5	744.29%	31	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	8/6/2012	Aluminum	Daily	3.8	4.191	10.29%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	8/6/2012	Iron	Daily	6	10.127	68.78%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	8/6/2012	Manganese	Daily	4	6.566	64.15%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	8/6/2012	Total Suspended Solids	Daily	70	313	347.14%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	8/31/2012	Aluminum	Monthly	1.9	4.19	120.53%	31	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	8/31/2012	Manganese	Monthly	2	6.57	228.50%	31	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	8/31/2012	Iron	Monthly	3	10.1	236.67%	31	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	8/31/2012	Total Suspended Solids	Monthly	35	313	794.29%	31	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	10/31/2012	Total Suspended Solids	Monthly	35	36.5	4.29%	31	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	12/3/2012	Total Suspended Solids	Daily	70	138	97.14%	1	39-48-39	80-10-12	UNT to Patterson Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	021	12/31/2012	Total Suspended Solids	Monthly	35	77.5	121.43%	31	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	1/24/2013	Total Suspended Solids	Daily	70	117	67.14%	1	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	021	1/31/2013	Total Suspended Solids	Monthly	35	64.5	84.29%	31	39-48-39	80-10-12	UNT to Patterson Run
Cumberland Coal Resources, LP	PA0013511	30831303	025	11/30/2007	Osmotic Pressure	Monthly	50	92	84.00%	30	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	025	4/8/2008	pH	Daily	<9	9.2	2%	1	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	025	11/30/2010	Osmotic Pressure	Monthly	50	52	4.00%	30	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	025	4/30/2011	Aluminum	Monthly	0.5	0.55	10%	30	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	025	2/15/2012	pH	Daily	9	9.01	0.11%	1	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	025	5/9/2012	pH	Daily	9	9.1	1.11%	1	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	025	11/2/2012	pH	Daily	9	9.36	4.00%	1	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	025	12/18/2012	pH	Daily	9	9.16	1.78%	1	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	025	1/14/2013	pH	Daily	9	9.43	4.78%	1	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	025	1/31/2013	pH	Daily	9	9.17	1.89%	1	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	025	2/20/2013	pH	Daily	9	9.18	2%	1	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	025	3/7/2013	pH	Daily	9	9.08	1%	1	39-49-45	80-10-02	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	026	3/31/2010	Aluminum	Monthly	0.5	0.8	60%	31	39-48-45	80-06-53	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	026	12/1/2010	Aluminum	Daily	1	1.6	60%	1	39-48-45	80-06-53	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	026	12/31/2010	Aluminum	Monthly	0.5	1.6	220%	31	39-48-45	80-06-53	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	026	12/31/2010	Iron	Monthly	1.5	2.6	73%	31	39-48-45	80-06-53	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	026	12/31/2010	Total Suspended Solids	Monthly	35	40	14%	31	39-48-45	80-06-53	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	026	11/30/2011	Aluminum	Monthly	0.5	0.6	20%	30	39-48-45	80-06-53	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	026	5/9/2012	Osmotic Pressure	Daily	50	80	60.00%	1	39-48-45	80-06-53	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	026	5/31/2012	Osmotic Pressure	Monthly	50	80	60.00%	31	39-48-45	80-06-53	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	027	1/27/2006	Osmotic Pressure	Daily	100	172	72.00%	1	39-49-20	80-08-05	U/T to Dyers Fork

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	027	1/31/2006	Osmotic Pressure	Monthly	50	172	244.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	3/31/2006	Osmotic Pressure	Daily	100	202	102.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	3/31/2006	Osmotic Pressure	Monthly	50	102	104.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	3/31/2006	pH	Daily	9	9.4	4%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	4/28/2006	Osmotic Pressure	Daily	100	156	56.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	4/30/2006	Osmotic Pressure	Monthly	50	156	212.00%	30	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	5/9/2006	Osmotic Pressure	Daily	100	180	80.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	5/23/2006	Osmotic Pressure	Daily	100	174	74.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	5/31/2006	Osmotic Pressure	Monthly	50	177	254.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	6/8/2006	Osmotic Pressure	Daily	100	181	81.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	6/20/2006	Osmotic Pressure	Daily	100	144	44.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	6/20/2006	pH	Daily	<9	9.2	2%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	6/30/2006	Aluminum	Monthly	0.5	0.6	20%	30	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	6/30/2006	Osmotic Pressure	Monthly	50	162.5	225.00%	30	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	7/17/2006	Osmotic Pressure	Daily	100	180	80.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	7/17/2006	pH	Daily	<9	9.3	3%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	7/26/2006	Osmotic Pressure	Daily	100	190	90.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	7/26/2006	pH	Daily	<9	9.7	8%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	7/31/2006	Osmotic Pressure	Monthly	50	185	270.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	8/22/2006	Osmotic Pressure	Daily	100	132	32.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	8/31/2006	Osmotic Pressure	Monthly	50	132	164.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	9/19/2006	Osmotic Pressure	Daily	100	194	94.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	9/19/2006	pH	Daily	<9	9.1	1%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	9/27/2006	Osmotic Pressure	Daily	100	172	72.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	9/27/2006	pH	Daily	<9	9.4	4%	1	39-49-20	80-08-05	U/T to Dyers Fork

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	027	9/30/2006	Osmotic Pressure	Monthly	50	183	266.00%	30	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	10/9/2006	Osmotic Pressure	Daily	100	172	72.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	10/9/2006	pH	Daily	<9	9.2	2%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	10/16/2006	Osmotic Pressure	Daily	100	170	70.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	10/31/2006	Osmotic Pressure	Monthly	50	171	242.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	12/20/2007	pH	Daily	<9	9.1	1%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	12/27/2007	pH	Daily	<9	9.3	3%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	1/8/2008	pH	Daily	<9	9.3	3%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	1/31/2008	Iron	Monthly	1.5	1.85	23%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	1/26/2009	Iron	Daily	3	3.5	17%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	1/26/2009	Osmotic Pressure	Daily	100	142	42.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	1/31/2009	Osmotic Pressure	Monthly	50	142	184.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	3/11/2009	Osmotic Pressure	Daily	100	105	5.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	3/31/2009	Aluminum	Monthly	0.5	0.6	20%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	3/31/2009	Iron	Monthly	1.5	2.8	87%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	3/31/2009	Osmotic Pressure	Monthly	50	105	110.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	3/31/2009	Total Suspended Solids	Monthly	35	44	26%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	1/20/2010	Aluminum	Daily	1	1.4	40%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	1/31/2010	Aluminum	Monthly	0.5	1.4	180%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	1/31/2010	Total Suspended Solids	Monthly	35	46	31%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	3/31/2010	Aluminum	Monthly	0.5	0.6	20%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	9/16/2010	Osmotic Pressure	Daily	100	161	61.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	9/16/2010	pH	Daily	9	9.6	7%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	9/30/2010	Osmotic Pressure	Monthly	50	161	222.00%	30	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	10/26/2010	Osmotic Pressure	Daily	100	146	46.00%	1	39-49-20	80-08-05	U/T to Dyers Fork

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	027	10/26/2010	pH	Daily	9	9.8	9%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	10/31/2010	Osmotic Pressure	Monthly	50	146	192.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	11/8/2010	Osmotic Pressure	Daily	100	142	42.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	11/8/2010	pH	Daily	<9	9.7	8%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	11/16/2010	Osmotic Pressure	Daily	100	142	42.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	11/16/2010	pH	Daily	<9	10	11%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	11/30/2010	Osmotic Pressure	Monthly	50	142	184.00%	30	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	12/31/2010	Aluminum	Monthly	0.5	0.6	20%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	11/30/2011	Aluminum	Monthly	0.5	0.6	20%	30	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	5/17/2012	Osmotic Pressure	Daily	50	80	60.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	5/31/2012	Osmotic Pressure	Monthly	50	80	60.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	7/20/2012	Aluminum	Daily	0.75	1.079	43.87%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	7/20/2012	Osmotic Pressure	Daily	50	175	250.00%	1	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	7/31/2012	Aluminum	Monthly	0.48	1.08	125.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	027	7/31/2012	Osmotic Pressure	Monthly	50	175	250.00%	31	39-49-20	80-08-05	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	11/30/2007	Aluminum	Monthly	0.5	0.9	80%	30	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	2/29/2008	Aluminum	Monthly	0.5	0.6	20%	29	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	3/31/2008	Aluminum	Monthly	0.5	0.75	50%	31	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	12/31/2008	Aluminum	Monthly	0.5	0.8	60%	31	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	4/23/2009	Aluminum	Daily	1	1.1	10%	1	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	4/23/2009	Total Suspended Solids	Daily	70	100	43%	1	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	4/30/2009	Aluminum	Monthly	0.5	1.1	120%	30	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	4/30/2009	Total Suspended Solids	Monthly	35	100	186%	30	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	1/20/2010	Aluminum	Daily	1	1.4	40%	1	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	1/31/2010	Aluminum	Monthly	0.5	1.4	180%	31	39-50-05	80-08-00	U/T to Dyers Fork

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	028	2/28/2010	Aluminum	Monthly	0.5	0.55	10%	28	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	3/25/2010	Aluminum	Daily	1	1.3	30%	1	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	3/31/2010	Aluminum	Monthly	0.5	0.75	50%	31	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	12/1/2010	Aluminum	Daily	1	1.2	20%	1	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	12/31/2010	Aluminum	Monthly	0.5	1.2	140%	31	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	4/30/2011	Aluminum	Monthly	0.5	0.9	80%	30	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	4/30/2011	Total Suspended Solids	Monthly	35	48	37%	30	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	1/31/2012	Aluminum	Monthly	0.48	0.5	4.17%	31	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	5/9/2012	Osmotic Pressure	Daily	50	70	40.00%	1	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	5/31/2012	Osmotic Pressure	Monthly	50	70	40.00%	31	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	7/20/2012	Osmotic Pressure	Daily	50	200	300.00%	1	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	028	7/31/2012	Osmotic Pressure	Monthly	50	200	300.00%	31	39-50-05	80-08-00	U/T to Dyers Fork
Cumberland Coal Resources, LP	PA0013511	30831303	030	3/5/2012	Aluminum	Daily	0.75	1.12	49.33%	1	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	3/31/2012	Aluminum	Monthly	0.48	0.8	66.67%	31	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	4/12/2012	Osmotic Pressure	Daily	50	80	60.00%	1	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	4/24/2012	Osmotic Pressure	Daily	50	70	40.00%	1	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	4/30/2012	Osmotic Pressure	Monthly	50	75	50.00%	30	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	5/3/2012	Osmotic Pressure	Daily	50	350	600.00%	1	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	5/17/2012	Osmotic Pressure	Daily	50	80	60.00%	1	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	5/31/2012	Osmotic Pressure	Monthly	50	215	330.00%	31	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	7/21/2012	Aluminum	Daily	0.75	4.98	564.00%	1	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	7/21/2012	Iron	Daily	2.3	6.466	181.13%	1	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	7/21/2012	Total Suspended Solids	Daily	70	125	78.57%	1	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	7/31/2012	Aluminum	Monthly	0.48	5	941.67%	31	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	7/31/2012	Iron	Monthly	1.5	6.5	333.33%	31	39-49-35	80-04-40	U/T to Whiteley Creek

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	030	7/31/2012	Total Suspended Solids	Monthly	35	125	257.14%	31	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	11/2/2012	Aluminum	Daily	0.75	0.879	17.20%	1	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	11/30/2012	Aluminum	Monthly	0.48	0.9	87.50%	30	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	12/31/2012	Aluminum	Monthly	0.48	0.6	25.00%	31	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	1/31/2013	Sulfate	Daily	250	280	12.00%	1	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	3/28/2013	Aluminum	Daily	0.75	1.31	75%	1	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	030	3/31/2013	Aluminum	Monthly	0.48	0.8	67%	31	39-49-35	80-04-40	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0013511	30831303	031	12/1/2010	Iron	Daily	3	3.2	7%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	12/1/2010	Total Suspended Solids	Daily	20	64	220%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	12/31/2010	Iron	Monthly	1.5	3.2	113%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	12/31/2010	Total Suspended Solids	Monthly	10	64	540%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	4/19/2012	pH	Daily	9	9.89	9.89%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	4/19/2012	Total Suspended Solids	Daily	20	27	35.00%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	4/20/2012	pH	Daily	9	10.12	12.44%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	4/20/2012	Total Suspended Solids	Daily	20	29	45.00%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	4/30/2012	Total Suspended Solids	Monthly	10	28	180.00%	30	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	5/9/2012	Total Suspended Solids	Daily	20	52	160.00%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	5/17/2012	Osmotic Pressure	Daily	50	70	40.00%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	5/17/2012	pH	Daily	9	9.54	6.00%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	5/17/2012	Total Suspended Solids	Daily	20	22	10.00%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	5/31/2012	Total Suspended Solids	Monthly	10	37	270.00%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	7/19/2012	pH	Daily	6.5	4.44	-31.69%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	7/19/2012	Aluminum	Daily	1.5	10.66	610.67%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	7/19/2012	Iron	Daily	3	21.34	611.33%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	7/19/2012	Total Suspended Solids	Daily	20	61	205.00%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	7/31/2012	Manganese	Monthly	1	1.9	90.00%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	7/31/2012	Aluminum	Monthly	0.75	10.66	1321.33%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	7/31/2012	Iron	Monthly	1.5	21.3	1320.00%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	7/31/2012	Total Suspended Solids	Monthly	10	61	510.00%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	8/10/2012	Aluminum	Daily	1.5	2.165	44.33%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	8/31/2012	Aluminum	Monthly	0.75	2.16	188.00%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	8/31/2012	Total Suspended Solids	Monthly	10	15	50.00%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511		031	9/9/2012	Aluminum	Daily	1.5	4.33	188.67%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511		031	9/9/2012	Iron	Daily	3	3.2	6.67%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511		031	9/9/2012	Total Suspended Solids	Daily	20	23	15.00%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511		031	9/19/2012	Aluminum	Daily	1.5	5.5	266.67%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511		031	9/19/2012	Iron	Daily	3	4.1	36.67%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511		031	9/19/2012	Total Suspended Solids	Daily	20	33	65.00%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511		031	9/30/2012	Iron	Monthly	1.5	3.6	140.00%	30	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511		031	9/30/2012	Aluminum	Monthly	0.75	4.92	556.00%	30	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511		031	9/30/2012	Total Suspended Solids	Monthly	10	28	180.00%	30	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	11/2/2012	Aluminum	Daily	1.5	2.05	36.67%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	11/30/2012	Iron	Monthly	1.5	1.6	6.67%	30	39-49-21	80-14-20	Maple Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	031	11/30/2012	Aluminum	Monthly	0.75	2.05	173.33%	30	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	11/30/2012	Total Suspended Solids	Monthly	10	13	30.00%	30	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	12/31/2012	Aluminum	Monthly	0.75	0.82	9.33%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	1/3/2013	Aluminum	Daily	1.5	1.85	23.33%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	1/3/2013	Osmotic Pressure	Daily	50	143	186.00%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	1/31/2013	Osmotic Pressure	Daily	50	115	130.00%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	1/31/2013	Aluminum	Monthly	0.75	1.09	45.33%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	1/31/2013	Total Suspended Solids	Monthly	10	11	10.00%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	1/31/2013	Osmotic Pressure	Monthly	50	129	158.00%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	2/28/2013	Total Suspended Solids	Monthly	10	13.7	37%	28	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	3/7/2013	Osmotic Pressure	Daily	50	151	202%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	3/28/2013	Osmotic Pressure	Daily	50	180	260%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	3/28/2013	pH	Daily	6.5	6.39	2%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	3/31/2013	Osmotic Pressure	Monthly	50	165.5	231%	31	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	4/17/2013	Osmotic Pressure	Daily	50	231	362%	1	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	031	4/30/2013	Osmotic Pressure	Monthly	50	231	362%	30	39-49-21	80-14-20	Maple Run
Cumberland Coal Resources, LP	PA0013511	30831303	032	12/31/2010	Aluminum	Monthly	2	2.2	10%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	5/9/2012	Aluminum	Daily	0.75	2.69	258.67%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	5/9/2012	Iron	Daily	2.3	2.89	25.65%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	5/9/2012	Osmotic Pressure	Daily	50	70	40.00%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	5/9/2012	Settleable Solids	Daily	0.5	1	100.00%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	5/31/2012	Aluminum	Monthly	0.48	2.69	460.42%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	5/31/2012	Iron	Monthly	1.5	2.9	93.33%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	5/31/2012	Osmotic Pressure	Monthly	50	70	40.00%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	7/19/2012	Aluminum	Daily	0.75	4.63	517.33%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	7/19/2012	Iron	Daily	2.3	6.21	170.00%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	7/19/2012	pH	Daily	9	9.64	7.11%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	7/19/2012	Total Suspended Solids	Daily	70	143	104.29%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	7/31/2012	Aluminum	Monthly	0.48	4.63	864.58%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	7/31/2012	Iron	Monthly	1.5	6.2	313.33%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	7/31/2012	Total Suspended Solids	Monthly	35	143	308.57%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	8/2/2012	Aluminum	Daily	0.75	1.688	125.07%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	8/2/2012	Iron	Daily	2.3	2.756	19.83%	1	39-50-05	80-16-27	UNT to Turkey Hollow

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	032	8/31/2012	Manganese	Monthly	0.64	0.8	25.00%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	8/31/2012	Aluminum	Monthly	0.48	1.69	252.08%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	8/31/2012	Iron	Monthly	1.5	2.8	86.67%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511		032	9/19/2012	Aluminum	Daily	0.75	1.79	138.67%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511		032	9/19/2012	Total Suspended Solids	Daily	70	72	2.86%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511		032	9/30/2012	Aluminum	Monthly	0.48	1.79	272.92%	30	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511		032	9/30/2012	Iron	Monthly	1.5	2.2	46.67%	30	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511		032	9/30/2012	Total Suspended Solids	Monthly	35	72	105.71%	30	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	10/1/2012	Aluminum	Daily	0.75	2.06	174.67%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	10/1/2012	Iron	Daily	2.3	2.45	6.52%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	10/31/2012	Aluminum	Monthly	0.48	2.06	329.17%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	10/31/2012	Iron	Monthly	1.5	2.4	60.00%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	11/2/2012	Aluminum	Daily	0.75	2.22	196.00%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	11/30/2012	Iron	Monthly	1.5	1.8	20.00%	30	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	11/30/2012	Aluminum	Monthly	0.48	2.22	362.50%	30	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	12/11/2012	Aluminum	Daily	0.75	5.4	620.00%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	12/11/2012	Iron	Daily	2.3	3.01	30.87%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	12/18/2012	Aluminum	Daily	0.75	1.93	157.33%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	12/18/2012	Iron	Daily	2.3	2.51	9.13%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	12/31/2012	Iron	Monthly	1.5	2.8	86.67%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	12/31/2012	Aluminum	Monthly	0.48	3.66	662.50%	31	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	1/3/2013	Aluminum	Daily	0.75	1	33.33%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	1/24/2013	Aluminum	Daily	0.75	1.17	56.00%	1	39-50-05	80-16-27	UNT to Turkey Hollow
Cumberland Coal Resources, LP	PA0013511	30831303	032	1/31/2013	Aluminum	Monthly	0.48	1.08	125.00%	31	39-50-05	80-16-27	UNT to Turkey Hollow

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	032	2/6/2013	Iron	Daily	2.3	3.56	55%	1	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	2/6/2013	Aluminum	Daily	0.75	5.26	601%	1	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	2/7/2013	Aluminum	Daily	0.75	2.71	261%	1	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	2/7/2013	Iron	Daily	2.3	3.25	41%	1	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	2/20/2013	Aluminum	Daily	0.75	2.09	179%	1	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	2/20/2013	Iron	Daily	2.3	2.57	12%	1	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	2/28/2013	Iron	Monthly	1.5	3.1	107%	28	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	2/28/2013	Aluminum	Monthly	0.48	3.35	598%	28	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	2/28/2013	Total Suspended Solids	Monthly	35	44	26%	28	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	3/7/2013	Aluminum	Daily	0.75	3.3	340%	1	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	3/28/2013	Aluminum	Daily	0.75	3.93	424%	1	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	3/31/2013	Iron	Monthly	1.5	1.8	20%	31	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	3/31/2013	Aluminum	Monthly	0.48	3.62	654%	31	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	4/17/2013	Iron	Daily	2.3	3.2	39%	1	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	4/17/2013	Aluminum	Daily	0.75	4.2	460%	1	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	4/25/2013	Aluminum	Daily	0.75	0.8	7%	1	39-50-05	80-16-27	UNT TO TURKEY HOLLOW

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	032	4/30/2013	Iron	Monthly	1.5	2.1	40%	30	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	032	4/30/2013	Aluminum	Monthly	0.48	2.49	419%	30	39-50-05	80-16-27	UNT TO TURKEY HOLLOW
Cumberland Coal Resources, LP	PA0013511	30831303	033	7/19/2012	Aluminum	Daily	0.75	1.119	49.20%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	7/31/2012	Aluminum	Monthly	0.48	1.12	133.33%	31	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	7/31/2012	Total Suspended Solids	Monthly	35	46	31.43%	31	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	8/2/2012	pH	Daily	9	9.29	3.22%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511		033	9/9/2012	Aluminum	Daily	0.75	5.48	630.67%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511		033	9/9/2012	Iron	Daily	2.34	4.49	91.88%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511		033	9/9/2012	Total Suspended Solids	Daily	70	99	41.43%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511		033	9/19/2012	Aluminum	Daily	0.75	8.12	982.67%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511		033	9/19/2012	Iron	Daily	2.34	6.44	175.21%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511		033	9/19/2012	Total Suspended Solids	Daily	70	121	72.86%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511		033	9/30/2012	Iron	Monthly	1.5	5.46	264.00%	30	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511		033	9/30/2012	Aluminum	Monthly	0.48	6.8	1316.67%	30	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511		033	9/30/2012	Total Suspended Solids	Monthly	35	110	214.29%	30	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	10/31/2012	Aluminum	Monthly	0.48	0.71	47.92%	31	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	11/2/2012	Aluminum	Daily	0.75	1.18	57.33%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	11/2/2012	pH	Daily	9	9.3	3.33%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	11/30/2012	Aluminum	Monthly	0.48	0.62	29.17%	30	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	12/5/2012	Aluminum	Daily	0.75	2.52	236.00%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	12/11/2012	Aluminum	Daily	0.75	8.24	998.67%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	12/11/2012	Iron	Daily	2.34	3.69	57.69%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	12/18/2012	Aluminum	Daily	0.75	2.38	217.33%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	12/18/2012	Iron	Daily	2.34	3.13	33.76%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0013511	30831303	033	12/18/2012	pH	Daily	9	9.14	1.56%	1	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	12/31/2012	Iron	Monthly	1.5	2.73	82.00%	31	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	12/31/2012	Aluminum	Monthly	0.48	4.38	812.50%	31	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	12/31/2012	Total Suspended Solids	Monthly	35	45	28.57%	31	39-47-37.2	80-17-43.0	U/T to Roberts Run
Cumberland Coal Resources, LP	PA0013511	30831303	033	3/28/2013	Aluminum	Daily	0.75	1.58	111%	1	39-47-37.2	80-17-43.0	U/T TO ROBERTS RUN
Cumberland Coal Resources, LP	PA0013511	30831303	033	3/31/2013	Aluminum	Monthly	0.48	1.16	142%	31	39-47-37.2	80-17-43.0	U/T TO ROBERTS RUN
Cumberland Coal Resources, LP	PA0013511	30831303	033	4/2/2013	pH	Daily	6.5	6.4	2%	1	39-47-37.2	80-17-43.0	U/T TO ROBERTS RUN
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/20/2007	Iron	Daily	6	8.3	38%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/20/2007	Total Suspended Solids	Daily	70	226	223%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/27/2007	Iron	Daily	6	11.7	95%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/27/2007	Manganese	Daily	4	6.5	63%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/31/2007	Iron	Monthly	3	10	233%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/31/2007	Manganese	Monthly	2	5.25	163%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/31/2007	Total Suspended Solids	Monthly	35	130.5	273%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	1/8/2008	Iron	Daily	6	12.5	108%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	1/8/2008	Manganese	Daily	4	6.5	63%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	1/8/2008	Total Suspended Solids	Daily	70	73	4%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	1/31/2008	Iron	Monthly	3	5.233333333	74%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	1/31/2008	Manganese	Monthly	2	2.3	15%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	1/31/2008	Total Suspended Solids	Monthly	35	52.66666667	50%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	3/31/2009	Iron	Monthly	3	3.8	27%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	3/31/2009	Total Suspended Solids	Monthly	35	45	29%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	10/5/2009	Iron	Daily	6	40	567%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	10/5/2009	Manganese	Daily	4	7.9	98%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	10/5/2009	Total Suspended Solids	Daily	70	99	41%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	10/31/2009	Manganese	Monthly	2	7.9	295%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	10/31/2009	Total Suspended Solids	Monthly	35	99	183%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	1/22/2010	Total Suspended Solids	Daily	70	94	34%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	1/31/2010	Iron	Monthly	3	5.9	97%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	1/31/2010	Manganese	Monthly	2	2.1	5%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	1/31/2010	Total Suspended Solids	Monthly	35	94	169%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	9/7/2010	Total Suspended Solids	Daily	70	80	14%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	9/30/2010	Total Suspended Solids	Monthly	35	80	129%	30	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	10/31/2010	Iron	Monthly	3	40	1233%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	10/19/2011	Total Suspended Solids	Daily	70	148	111%	1	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	10/31/2011	Total Suspended Solids	Monthly	35	87.5	150%	31	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	11/30/2011	Total Suspended Solids	Monthly	35	57	63%	30	39-37-45	80-09-30	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	6/5/2012	Aluminum	Daily	1.2	8.7	625.00%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	6/5/2012	Iron	Daily	1.8	39.4	2088.89%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	6/5/2012	Manganese	Daily	1.45	10.9	651.72%	1	39-37-45	80-09-30	Whiteley Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0033511	30743711	001	6/5/2012	Total Suspended Solids	Daily	70	344	391.43%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	6/30/2012	Aluminum	Monthly	0.6	8.7	1350.00%	30	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	6/30/2012	Manganese	Monthly	0.725	10.88	1400.69%	30	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	6/30/2012	Iron	Monthly	0.9	39.4	4277.78%	30	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	6/30/2012	Total Suspended Solids	Monthly	35	344	882.86%	30	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	7/5/2012	Manganese	Daily	1.45	2.326	60.41%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	7/20/2012	Aluminum	Daily	1.2	1.807	50.58%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	7/20/2012	Iron	Daily	1.8	4.987	177.06%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	7/20/2012	Total Suspended Solids	Daily	70	74	5.71%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	7/26/2012	Aluminum	Daily	1.2	1.617	34.75%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	7/26/2012	Iron	Daily	1.8	2.887	60.39%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	7/26/2012	Total Suspended Solids	Daily	70	98	40.00%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	7/31/2012	Aluminum	Monthly	0.6	0.9	50.00%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	7/31/2012	Manganese	Monthly	0.725	1.228	69.38%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	7/31/2012	Iron	Monthly	0.9	2.4	166.67%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	7/31/2012	Total Suspended Solids	Monthly	35	47	34.29%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	9/4/2012	Aluminum	Daily	1.2	2.04	70.00%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	9/30/2012	Aluminum	Monthly	0.6	2	233.33%	30	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	11/20/2012	Iron	Daily	1.8	6.17	242.78%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	11/20/2012	Manganese	Daily	1.45	4.4	203.45%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	11/30/2012	Manganese	Monthly	0.725	4.4	506.90%	30	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	11/30/2012	Iron	Monthly	0.9	6.2	588.89%	30	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/3/2012	Iron	Daily	1.8	19.5	983.33%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/3/2012	Manganese	Daily	1.45	1.93	33.10%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/31/2012	Aluminum	Monthly	0.6	0.9	50.00%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/31/2012	Manganese	Monthly	0.725	1.93	166.21%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	12/31/2012	Iron	Monthly	0.9	19.5	2066.67%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	3/12/2013	Iron	Daily	1.8	2.38	32%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	3/28/2013	Iron	Daily	1.8	6.23	246%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	3/28/2013	Manganese	Daily	1.45	1.76	21%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	3/31/2013	Manganese	Monthly	0.725	1.214	67%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	3/31/2013	Iron	Monthly	0.9	4.3	378%	31	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	4/2/2013	Manganese	Daily	1.45	2.2	52%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	4/2/2013	Iron	Daily	1.8	7.2	300%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	4/17/2013	Manganese	Daily	1.45	2.2	52%	1	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	4/30/2013	Manganese	Monthly	0.725	2.23	208%	30	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	001	4/30/2013	Iron	Monthly	0.9	4.3	378%	30	39-37-45	80-09-30	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	1/31/2006	Iron	Monthly	3	3.3	10%	31	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	6/7/2006	pH	Daily	<9	9.1	1%	1	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/17/2006	pH	Daily	<9	9.2	2%	1	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/31/2006	Total Suspended Solids	Monthly	35	35.5	1%	31	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	12/31/2006	Total Suspended Solids	Monthly	35	47.5	36%	31	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	2/28/2007	Total Suspended Solids	Monthly	35	51	46%	28	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	3/31/2007	Total Suspended Solids	Monthly	35	49	40%	31	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	4/30/2007	Total Suspended Solids	Monthly	35	51.5	47%	30	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	5/31/2007	Total Suspended Solids	Monthly	35	42.5	21%	31	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	8/31/2007	Total Suspended Solids	Monthly	35	48.5	39%	31	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	10/31/2007	Total Suspended Solids	Monthly	35	45	29%	31	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	11/8/2007	Total Suspended Solids	Daily	70	78	11%	1	39-37-45	80-09-00	Whitely Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	11/30/2007	Total Suspended Solids	Monthly	35	69.5	99%	30	39-37-45	80-09-00	Whitely Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0033511	30743711	014	12/31/2007	Iron	Monthly	3	4.3	43%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	12/31/2007	Total Suspended Solids	Monthly	35	35.5	1%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	1/22/2008	Total Suspended Solids	Daily	70	85	21%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	1/31/2008	Total Suspended Solids	Monthly	35	43	23%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	3/31/2008	Total Suspended Solids	Monthly	35	55.5	59%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	4/8/2008	Total Suspended Solids	Daily	70	71	1%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	4/30/2008	Total Suspended Solids	Monthly	35	59	69%	30	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	5/31/2008	Total Suspended Solids	Monthly	35	40	14%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	6/30/2008	Total Suspended Solids	Monthly	35	42.5	21%	30	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	8/31/2008	Total Suspended Solids	Monthly	35	53	51%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	12/31/2008	Total Suspended Solids	Monthly	35	52.5	50%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	3/4/2009	Total Suspended Solids	Daily	70	77	10%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	3/31/2009	Total Suspended Solids	Monthly	35	66	89%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	4/9/2009	Total Suspended Solids	Daily	70	77	10%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	4/23/2009	Total Suspended Solids	Daily	70	98	40%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	4/30/2009	Total Suspended Solids	Monthly	35	87.5	150%	30	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	5/31/2009	Total Suspended Solids	Monthly	35	50	43%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	6/8/2009	Total Suspended Solids	Daily	70	82	17%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	6/24/2009	Total Suspended Solids	Daily	70	120	71%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	6/30/2009	Total Suspended Solids	Monthly	35	101	189%	30	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/8/2009	Total Suspended Solids	Daily	70	78	11%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/15/2009	Total Suspended Solids	Daily	70	72	3%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/31/2009	Total Suspended Solids	Monthly	35	75	114%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	8/3/2009	Total Suspended Solids	Daily	70	181	159%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	8/31/2009	Total Suspended Solids	Monthly	35	99.5	184%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	9/11/2009	Total Suspended Solids	Daily	70	94	34%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	9/30/2009	Total Suspended Solids	Monthly	35	78	123%	30	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	10/22/2009	Total Suspended Solids	Daily	70	72	3%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	10/31/2009	Total Suspended Solids	Monthly	35	55.5	59%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	11/2/2009	Total Suspended Solids	Daily	70	95	36%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	11/30/2009	Total Suspended Solids	Monthly	35	71	103%	30	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	12/31/2009	Total Suspended Solids	Monthly	35	35.5	1%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	2/1/2010	Total Suspended Solids	Daily	70	71	1%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	2/26/2010	Total Suspended Solids	Daily	70	73	4%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	2/28/2010	Iron	Monthly	3	4.1	37%	28	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	2/28/2010	Total Suspended Solids	Monthly	35	72	106%	28	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	3/31/2010	Total Suspended Solids	Monthly	35	44	26%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	4/30/2010	Total Suspended Solids	Monthly	35	35.5	1%	30	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	5/28/2010	Total Suspended Solids	Daily	70	80	14%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	5/31/2010	Total Suspended Solids	Monthly	35	73	109%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	8/31/2010	Total Suspended Solids	Monthly	35	49	40%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	10/31/2010	Total Suspended Solids	Monthly	35	41	17%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	11/30/2010	Total Suspended Solids	Monthly	35	52	49%	30	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	12/17/2010	Iron	Daily	6	6.7	12%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	12/17/2010	Total Suspended Solids	Daily	70	98	40%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	12/31/2010	Iron	Monthly	3	5.55	85%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	12/31/2010	Total Suspended Solids	Monthly	35	78.5	124%	31	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/26/2012	pH	Daily	6	4.73	-21.17%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/26/2012	Aluminum	Daily	1.1	23.68	2052.73%	1	39-37-45	80-09-00	Whitley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/26/2012	Iron	Daily	1.8	37.75	1997.22%	1	39-37-45	80-09-00	Whitley Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/26/2012	Manganese	Daily	1.3	3.72	186.15%	1	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/26/2012	Total Suspended Solids	Daily	70	80	14.29%	1	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/31/2012	Manganese	Monthly	0.6	1.2	100.00%	31	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/31/2012	Aluminum	Monthly	0.5	8	1500.00%	31	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	7/31/2012	Iron	Monthly	0.9	12.7	1311.11%	31	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	11/30/2012	Aluminum	Monthly	0.5	0.6	20.00%	30	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	12/18/2012	pH	Daily	9	9.06	0.67%	1	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	12/31/2012	Aluminum	Monthly	0.5	0.6	20.00%	31	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	2/28/2013	Aluminum	Monthly	0.5	0.8	60%	28	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	2/28/2013	Total Suspended Solids	Monthly	35	39	11%	28	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	3/31/2013	Aluminum	Monthly	0.5	0.7	40%	31	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	014	4/30/2013	Aluminum	Monthly	0.5	0.6	20%	30	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0033511	30743711	016	7/19/2012	Manganese	Daily	4	8.43	110.75%	1	39-47-45	80-09-15	Patterson Run
Cumberland Coal Resources, LP	PA0033511	30743711	016	7/31/2012	Manganese	Monthly	2	3.1	55.00%	31	39-47-45	80-09-15	Patterson Run
Cumberland Coal Resources, LP	PA0033511	30743711	016	8/31/2012	Manganese	Monthly	2	2.4	20.00%	31	39-47-45	80-09-15	Patterson Run
Cumberland Coal Resources, LP	PA0033511	30743711	016	9/4/2012	Manganese	Daily	4	4.27	6.75%	1	39-47-45	80-09-15	Patterson Run
Cumberland Coal Resources, LP	PA0033511	30743711	016	9/30/2012	Manganese	Monthly	2	4.3	115.00%	30	39-47-45	80-09-15	Patterson Run
Cumberland Coal Resources, LP	PA0235440	30010701	029	12/17/2009	Aluminum	Daily	1.4	3	114%	1	39-47-55	80-07-57	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0235440	30010701	029	12/31/2009	Aluminum	Monthly	0.7	1.6	129%	31	39-47-55	80-07-57	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0235440	30010701	029	4/19/2011	Total Suspended Solids	Daily	70	144	106%	1	39-47-55	80-07-57	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0235440	30010701	029	4/30/2011	Aluminum	Monthly	0.7	0.75	7%	30	39-47-55	80-07-57	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0235440	30010701	029	4/30/2011	Total Suspended Solids	Monthly	35	84.5	141%	30	39-47-55	80-07-57	U/T to Whiteley Creek
Cumberland Coal Resources, LP	PA0235440	30010701	029	2/29/2012	Total Suspended Solids	Monthly	35	42	20.00%	29	39-47-55	80-07-57	U/T to Whiteley Creek
Dickenson-Russell Coal Company, LLC	VA0081833	1401833	5585630 / 008	7/25/2011	Settleable Solids	Daily	0.5	0.8	60.00%	1	37° 5' 54.90" W	82° 23' 31.44" N	Caney Creek
Dickenson-Russell Coal Company, LLC	VA0081835	1401835	5170082 / 011	12/31/2008	Total Suspended Solids	Monthly	35	42.5	21.43%	31	37° 5' 6.73" W	82° 13' 39.87" N	Fryingpan Creek
Dickenson-Russell Coal Company, LLC	VA0081835	1401835	5170091 / 005	3/31/2011	Iron	Monthly	3.0	3.2	7.50%	31	37° 5' 14.31" W	82° 13' 40.67" N	Fryingpan Creek
Dickenson-Russell Coal Company, LLC	VA0081837	1201837	5289 / 011	2/19/2009	Total Suspended Solids	Daily	70	80.0	14.29%	1	37° 15' 35.51" W	82° 15' 21.49" N	Barts Lick Creek
Dickenson-Russell Coal Company, LLC	VA0081837	1201837	5289 / 011	2/28/2009	Total Suspended Solids	Monthly	35	41.0	17.14%	28	37° 15' 35.51" W	82° 15' 21.49" N	Barts Lick Creek
Dickenson-Russell Coal Company, LLC	VA0081837	1201837	6194 / 013	6/11/2007	Iron	Daily	6.0	6.8	13.33%	1	37° 15' 5.77" W	82° 14' 57.77" N	Barts Lick Creek
Dickenson-Russell Coal Company, LLC	VA0081837	1201837	6194 / 013	6/11/2007	Manganese	Daily	4.0	7.0	75.00%	1	37° 15' 5.77" W	82° 14' 57.77" N	Barts Lick Creek
Dickenson-Russell Coal Company, LLC	VA0081837	1201837	6194 / 013	6/30/2007	Iron	Monthly	3.0	3.9	30.00%	30	37° 15' 5.77" W	82° 14' 57.77" N	Barts Lick Creek
Dickenson-Russell Coal Company, LLC	VA0081837	1201837	6194 / 013	6/30/2007	Manganese	Monthly	2.0	3.6	80.00%	30	37° 15' 5.77" W	82° 14' 57.77" N	Barts Lick Creek
Dickenson-Russell Coal Company, LLC	VA0081837	1201837	6194 / 013	8/26/2008	Manganese	Daily	4.0	4.8	20.00%	1	37° 15' 5.77" W	82° 14' 57.77" N	Barts Lick Creek

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Dickenson-Russell Coal Company, LLC	VA0081837	1201837	6194 / 013	8/31/2008	Manganese	Monthly	2.0	2.8	40.00%	31	37° 15' 5.77" W	82° 14' 57.77" N	Barts Lick Creek
Dickenson-Russell Coal Company, LLC	VA0081839	1301839	3985044 / 001	5/19/2010	Iron	Daily	6.0	7.3	21.67%	1	36° 57' 33.57" W	82° 10' 44.49" N	Dumps Creek
Dickenson-Russell Coal Company, LLC	VA0081839	1301839	3985044 / 001	5/19/2010	Total Suspended Solids	Daily	70	107.0	52.86%	1	36° 57' 33.57" W	82° 10' 44.49" N	Dumps Creek
Dickenson-Russell Coal Company, LLC	VA0081839	1301839	3985044 / 001	5/31/2010	Iron	Monthly	3.5	3.9	10.00%	31	36° 57' 33.57" W	82° 10' 44.49" N	Dumps Creek
Dickenson-Russell Coal Company, LLC	VA0081839	1301839	3985044 / 001	5/31/2010	Total Suspended Solids	Monthly	35	61.5	75.71%	31	36° 57' 33.57" W	82° 10' 44.49" N	Dumps Creek
Dickenson-Russell Coal Company, LLC	VA0081839	1301839	3985044 / 001	6/19/2012	Total Suspended Solids	Daily	70	74	5.71%	1	36° 57' 34" W	82° 10' 44" N	Dumps Creek
Dickenson-Russell Coal Company, LLC	VA0081839	1301839	3985047 / 004	6/30/2010	Total Suspended Solids	Monthly	35	40.5	15.71%	30	36° 56' 57.60" W	82° 11' 21.30" N	Dumps Creek
Dickenson-Russell Coal Company, LLC	VA0081842	1201842	6007 / 008	2/3/2009	Total Suspended Solids	Daily	70	88.0	25.71%	1	37° 0' 57.02" W	82° 22' 32.94" N	Cowan Rose Creek
Dickenson-Russell Coal Company, LLC	VA0081842	1201842	6007 / 008	2/28/2009	Total Suspended Solids	Monthly	35	51.5	47.14%	28	37° 0' 57.02" W	82° 22' 32.94" N	Cowan Rose Creek
Dickenson-Russell Coal Company, LLC	VA0081877	1201877	1064 / 001	5/31/2009	Total Suspended Solids	Monthly	35	48.0	37.14%	31	37° 1' 39.97" W	82° 14' 26.19" N	Roaring Fork
Dickenson-Russell Coal Company, LLC	VA0081877	1201877	1064 / 001	3/31/2010	Total Suspended Solids	Daily	70	206.0	194.29%	1	37° 1' 39.97" W	82° 14' 26.19" N	Roaring Fork
Dickenson-Russell Coal Company, LLC	VA0081877	1201877	1064 / 001	3/31/2010	Total Suspended Solids	Monthly	35	111.0	217.14%	31	37° 1' 39.97" W	82° 14' 26.19" N	Roaring Fork
Dickenson-Russell Coal Company, LLC	VA0082039	1302039	5385023 / 001	10/31/2009	Manganese	Monthly	2.0	2.4	17.50%	31	37° 6' 21.37" W	82° 31' 21.55" N	Lick Fork
Dickenson-Russell Coal Company, LLC	VA0082039	1302039	5385023 / 001	3/31/2010	Manganese	Monthly	2.0	2.1	5.00%	31	37° 6' 21.37" W	82° 31' 21.55" N	Lick Fork
Dickenson-Russell Coal Company, LLC	VA0082039	1302039	5385023 / 001	1/31/2011	Manganese	Monthly	2.0	2.4	18.33%	31	37° 6' 21.37" W	82° 31' 21.55" N	Lick Fork
Dickenson-Russell Coal Company, LLC	VA0082039	1302039	5385023 / 001	4/30/2012	Manganese	Monthly	2.0	2.2	10.00%	30	37° 6' 21.37" W	82° 31' 21.55" N	Lick Fork
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2006	Osmotic Pressure	Monthly	70	85	21.43%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2006	Total Suspended Solids	Monthly	35	53.5	53%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	2/28/2006	Osmotic Pressure	Monthly	70	108	54.29%	28	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	3/31/2006	Osmotic Pressure	Monthly	70	80	14.29%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	5/31/2006	Osmotic Pressure	Monthly	70	70.5	0.71%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	7/31/2006	Osmotic Pressure	Monthly	70	90	28.57%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	8/31/2006	Osmotic Pressure	Monthly	70	96	37.14%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	9/30/2006	Osmotic Pressure	Monthly	70	75.5	7.86%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	12/31/2006	Total Suspended Solids	Monthly	35	47.5	36%	31	39-53-49	80-11-50	South Fork Ten Mile

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2007	Osmotic Pressure	Daily	140	142	1.43%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2007	Osmotic Pressure	Monthly	70	103.5	47.86%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2007	Total Suspended Solids	Monthly	35	44.5	27%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	2/8/2007	Osmotic Pressure	Daily	140	166	18.57%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	2/28/2007	Osmotic Pressure	Monthly	70	125.5	79.29%	28	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	2/28/2007	Total Suspended Solids	Monthly	35	48	37%	28	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	3/13/2007	Total Suspended Solids	Daily	70	120	71%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	3/31/2007	Osmotic Pressure	Monthly	70	91	30.00%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	3/31/2007	Total Suspended Solids	Monthly	35	81	131%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	7/31/2007	Osmotic Pressure	Monthly	70	103	47.14%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	7/31/2007	Total Suspended Solids	Monthly	35	59	69%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	8/31/2007	Osmotic Pressure	Monthly	70	81.5	16.43%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	9/27/2007	Total Suspended Solids	Daily	70	91	30%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	9/30/2007	Aluminum	Monthly	0.7	0.75	7%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	9/30/2007	Osmotic Pressure	Monthly	70	98.5	40.71%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	9/30/2007	Total Suspended Solids	Monthly	35	64.5	84%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	10/31/2007	Osmotic Pressure	Monthly	70	109	55.71%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	10/31/2007	Total Suspended Solids	Monthly	35	45	29%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	11/30/2007	Osmotic Pressure	Monthly	70	86	22.86%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	12/31/2007	Total Suspended Solids	Monthly	35	44	26%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/8/2008	Aluminum	Daily	1.4	2.2	57%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/8/2008	Iron	Daily	4	4.7	18%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2008	Aluminum	Monthly	0.7	1.2	71%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2008	Iron	Monthly	2	2.5	25%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2008	Osmotic Pressure	Monthly	70	108	54.29%	31	39-53-49	80-11-50	South Fork Ten Mile

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2008	Total Suspended Solids	Monthly	35	63.5	81%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	2/28/2008	Osmotic Pressure	Monthly	70	113.5	62.14%	29	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	2/28/2008	Total Suspended Solids	Monthly	35	56	60%	29	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	4/30/2008	Osmotic Pressure	Monthly	70	73.5	5.00%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	5/31/2008	Osmotic Pressure	Monthly	70	73.5	5.00%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	8/31/2008	Osmotic Pressure	Monthly	70	79.5	13.57%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	9/30/2008	Osmotic Pressure	Monthly	70	84.5	20.71%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	10/31/2008	Osmotic Pressure	Monthly	70	91.5	30.71%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	11/30/2008	Osmotic Pressure	Monthly	70	97	38.57%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	11/30/2008	Total Suspended Solids	Monthly	35	39	11%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	2/28/2009	Osmotic Pressure	Monthly	70	92	31.43%	28	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	3/31/2009	Osmotic Pressure	Monthly	70	93	32.86%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	3/31/2009	Total Suspended Solids	Monthly	35	54	54%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	5/31/2009	Osmotic Pressure	Monthly	70	72	2.86%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	5/31/2009	Total Suspended Solids	Monthly	35	41	17%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	8/31/2009	Osmotic Pressure	Monthly	70	78	11.43%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	10/5/2009	Aluminum	Daily	1.4	1.9	36%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	10/31/2009	Aluminum	Monthly	0.7	1.9	171%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	10/31/2009	Iron	Monthly	2	2.4	20%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	10/31/2009	Osmotic Pressure	Monthly	70	76	8.57%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	11/30/2009	Osmotic Pressure	Monthly	70	113	61.43%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	12/31/2009	Osmotic Pressure	Monthly	70	93	32.86%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2010	Aluminum	Monthly	0.7	0.8	14%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2010	Iron	Monthly	2	2.3	15%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2010	Osmotic Pressure	Monthly	70	106	51.43%	31	39-53-49	80-11-50	South Fork Ten Mile

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2010	Total Suspended Solids	Monthly	35	43.5	24%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	2/28/2010	Iron	Monthly	2	2.8	40%	28	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	11/30/2010	Osmotic Pressure	Monthly	70	102	45.71%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	12/31/2010	Aluminum	Monthly	0.7	1.1	57%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	12/31/2010	Total Suspended Solids	Monthly	35	52	49%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/13/2011	Total Suspended Solids	Daily	70	84	20%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2011	Osmotic Pressure	Monthly	70	90.5	29.29%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2011	Total Suspended Solids	Monthly	35	75.5	116%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	2/8/2011	Total Suspended Solids	Daily	70	76	9%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	2/28/2011	Osmotic Pressure	Monthly	70	111	58.57%	28	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	2/28/2011	Total Suspended Solids	Monthly	35	76	117%	28	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	4/19/2011	Total Suspended Solids	Daily	70	76	9%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	4/30/2011	Total Suspended Solids	Monthly	35	58.5	67%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	9/30/2011	Osmotic Pressure	Monthly	70	76	8.57%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	10/31/2011	Total Suspended Solids	Monthly	35	37	6%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	4/30/2012	Osmotic Pressure	Monthly	70	98	40.00%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	11/20/2012	pH	Daily	9	9.4	4.44%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	11/30/2012	Osmotic Pressure	Monthly	70	88	25.71%	30	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2013	Aluminum	Daily	1.4	1.86	32.86%	1	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2013	Aluminum	Monthly	0.7	1.9	171.43%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	1/31/2013	Total Suspended Solids	Monthly	35	64	82.86%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	3/31/2013	Osmotic Pressure	Monthly	70	86	23%	31	39-53-49	80-11-50	South Fork Ten Mile
Emerald Coal Resources, LP	PA0213438	30841307	002	4/30/2013	Osmotic Pressure	Monthly	70	97	39%	30	39-53-49	80-11-50	SOUTH FORK TEN MILE
Emerald Coal Resources, LP	PA0213438	30841307	004	1/8/2008	Settleable Solids	Daily	0.5	1	100%	1	39-53-14	80-11-33	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	004	2/11/2008	Settleable Solids	Daily	0.5	2	300%	1	39-53-14	80-11-33	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	004	3/10/2008	Settleable Solids	Daily	0.5	1	100%	1	39-53-14	80-11-33	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	004	4/8/2008	Settleable Solids	Daily	0.5	2	300%	1	39-53-14	80-11-33	Smith Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	004	6/10/2008	Settleable Solids	Daily	0.5	17	3300%	1	39-53-14	80-11-33	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	004	12/23/2008	Settleable Solids	Daily	0.5	5	900%	1	39-53-14	80-11-33	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	004	5/15/2012	Iron	Daily	7	10.216	45.94%	1	39-53-14	80-11-33	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	4/30/2011	Total Suspended Solids	Monthly	35	52	49%	30	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	5/1/2012	Total Suspended Solids	Daily	70	189	170.00%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	5/31/2012	Aluminum	Monthly	0.8	1.1	37.50%	31	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	5/31/2012	Iron	Monthly	2.1	3.2	52.38%	31	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	5/31/2012	Total Suspended Solids	Monthly	35	110	214.29%	31	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	6/6/2012	Iron	Daily	4.2	6.5	54.76%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	6/6/2012	Manganese	Daily	3	6.3	110.00%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	6/6/2012	Total Suspended Solids	Daily	70	213	204.29%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	6/30/2012	Manganese	Monthly	1.5	6.3	320.00%	30	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	6/30/2012	Iron	Monthly	2.1	6.5	209.52%	30	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	6/30/2012	Total Suspended Solids	Monthly	35	213	508.57%	30	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/1/2012	Aluminum	Daily	1.6	37.26	2228.75%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/1/2012	Iron	Daily	4.2	98.6	2247.62%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/1/2012	Manganese	Daily	3	7.19	139.67%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/1/2012	Total Suspended Solids	Daily	70	908	1197.14%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/2/2012	Aluminum	Daily	1.6	5.043	215.19%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/2/2012	Iron	Daily	4.2	14.363	241.98%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/2/2012	Manganese	Daily	3	7.98	166.00%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/2/2012	Total Suspended Solids	Daily	70	513	632.86%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/16/2012	Manganese	Daily	3	8.14	171.33%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/16/2012	Total Suspended Solids	Daily	70	200	185.71%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/31/2012	Manganese	Monthly	1.5	7.8	420.00%	31	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/31/2012	Aluminum	Monthly	0.8	14.3	1687.50%	31	39-51-39	80-12-44	Trib. to Smith Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	006	7/31/2012	Iron	Monthly	2.1	38.4	1728.57%	31	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	7/31/2012	Total Suspended Solids	Monthly	35	540	1442.86%	31	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	2/20/2013	Total Suspended Solids	Daily	70	132	89%	1	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	006	2/28/2013	Total Suspended Solids	Monthly	35	72	106%	28	39-51-39	80-12-44	Trib. to Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	009	4/30/2012	Manganese	Monthly	1	1.4	40.00%	30	39-50-02	80-12-22	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	009	5/31/2012	Manganese	Monthly	1	1.4	40.00%	31	39-50-02	80-12-22	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	009	1/3/2013	Total Suspended Solids	Daily	70	81	15.71%	1	39-50-02	80-12-22	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	009	1/31/2013	Manganese	Monthly	1	1.6	60.00%	31	39-50-02	80-12-22	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	009	1/31/2013	Iron	Monthly	1.6	1.8	12.50%	31	39-50-02	80-12-22	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	009	1/31/2013	Total Suspended Solids	Monthly	35	46	31.43%	31	39-50-02	80-12-22	Smith Creek
Emerald Coal Resources, LP	PA0213438	30841307	013	9/27/2006	pH	Daily	<9	9.2	2%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	10/9/2006	pH	Daily	<9	9.1	1%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	4/23/2009	Osmotic Pressure	Daily	100	118	18.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	4/30/2009	Osmotic Pressure	Monthly	50	79.5	59.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	5/20/2009	Osmotic Pressure	Daily	100	170	70.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	5/31/2009	Osmotic Pressure	Monthly	50	125.5	151.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	6/3/2009	Osmotic Pressure	Daily	100	118	18.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	6/25/2009	Osmotic Pressure	Daily	100	124	24.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	6/30/2009	Osmotic Pressure	Monthly	50	121	142.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	7/8/2009	Osmotic Pressure	Daily	100	133	33.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	7/15/2009	Osmotic Pressure	Daily	100	124	24.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	7/31/2009	Osmotic Pressure	Monthly	50	128.5	157.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	8/3/2009	Osmotic Pressure	Daily	100	118	18.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	8/17/2009	Osmotic Pressure	Daily	100	110	10.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	8/31/2009	Osmotic Pressure	Monthly	50	114	128.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	9/3/2009	Osmotic Pressure	Daily	100	106	6.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	9/11/2009	Osmotic Pressure	Daily	100	119	19.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	9/30/2009	Osmotic Pressure	Monthly	50	112.5	125.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	013	10/5/2009	Osmotic Pressure	Daily	100	106	6.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	10/22/2009	Osmotic Pressure	Daily	100	108	8.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	10/31/2009	Osmotic Pressure	Monthly	50	107	114.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	11/2/2009	Osmotic Pressure	Daily	100	117	17.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	11/24/2009	Osmotic Pressure	Daily	100	115	15.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	11/30/2009	Osmotic Pressure	Monthly	50	116	132.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	12/7/2009	Osmotic Pressure	Daily	100	109	9.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	12/17/2009	Osmotic Pressure	Daily	100	111	11.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	12/31/2009	Osmotic Pressure	Monthly	50	110	120.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	1/7/2010	Osmotic Pressure	Daily	100	110	10.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	1/20/2010	Osmotic Pressure	Daily	100	118	18.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	1/31/2010	Osmotic Pressure	Monthly	50	114	128.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	2/1/2010	Osmotic Pressure	Daily	100	118	18.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	2/25/2010	Osmotic Pressure	Daily	100	117	17.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	2/28/2010	Osmotic Pressure	Monthly	50	117.5	135.00%	28	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	3/9/2010	Osmotic Pressure	Daily	100	102	2.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	3/25/2010	Osmotic Pressure	Daily	100	164	64.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	3/31/2010	Osmotic Pressure	Monthly	50	133	166.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	4/7/2010	Osmotic Pressure	Daily	100	101	1.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	4/21/2010	Osmotic Pressure	Daily	100	127	27.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	4/30/2010	Osmotic Pressure	Monthly	50	114	128.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	5/10/2010	Osmotic Pressure	Daily	100	121	21.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	5/24/2010	Osmotic Pressure	Daily	100	106	6.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	5/31/2010	Osmotic Pressure	Monthly	50	113.5	127.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	6/11/2010	Osmotic Pressure	Daily	100	108	8.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	013	6/11/2010	pH	Daily	<9	9.2	2%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	6/21/2010	Osmotic Pressure	Daily	100	125	25.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	6/30/2010	Aluminum	Monthly	0.5	0.6	20%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	6/30/2010	Osmotic Pressure	Monthly	50	116.5	133.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	7/7/2010	Osmotic Pressure	Daily	100	197	97.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	7/27/2010	Osmotic Pressure	Daily	100	123	23.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	7/31/2010	Osmotic Pressure	Monthly	50	160	220.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	8/3/2010	Osmotic Pressure	Daily	100	133	33.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	8/12/2010	Osmotic Pressure	Daily	100	135	35.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	8/31/2010	Aluminum	Monthly	0.5	0.55	10%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	8/31/2010	Osmotic Pressure	Monthly	50	134	168.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	9/7/2010	Osmotic Pressure	Daily	100	119	19.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	9/16/2010	Osmotic Pressure	Daily	100	128	28.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	9/30/2010	Osmotic Pressure	Monthly	50	123.5	147.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	10/7/2010	Osmotic Pressure	Daily	100	105	5.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	10/26/2010	Osmotic Pressure	Daily	100	113	13.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	10/31/2010	Osmotic Pressure	Monthly	50	109	118.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	11/8/2010	Osmotic Pressure	Daily	100	112	12.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	11/16/2010	Osmotic Pressure	Daily	100	107	7.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	11/30/2010	Osmotic Pressure	Monthly	50	109.5	119.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	12/31/2010	Aluminum	Monthly	0.5	0.7	40%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	1/13/2011	Osmotic Pressure	Daily	100	101	1.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	1/31/2011	Osmotic Pressure	Monthly	50	100.5	101.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	2/8/2011	Osmotic Pressure	Daily	100	111	11.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	2/28/2011	Osmotic Pressure	Monthly	50	87.5	75.00%	28	39-52-15	80-07-35	U.T. to Coal Lick Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	013	6/30/2011	Osmotic Pressure	Monthly	50	83.5	67.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	7/31/2011	Osmotic Pressure	Monthly	50	84	68.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	8/31/2011	Osmotic Pressure	Monthly	50	67.5	35.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	9/30/2011	Osmotic Pressure	Monthly	50	71	42.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	10/31/2011	Osmotic Pressure	Monthly	50	95.5	91.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	11/30/2011	Osmotic Pressure	Monthly	50	63	26.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	12/5/2011	Osmotic Pressure	Daily	100	112	12.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	12/13/2011	Osmotic Pressure	Daily	100	112	12.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	12/31/2011	Osmotic Pressure	Monthly	50	112	124.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	1/4/2012	Osmotic Pressure	Daily	100	108	8.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	1/25/2012	Osmotic Pressure	Daily	100	132	32.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	1/31/2012	Osmotic Pressure	Monthly	50	120	140.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	2/8/2012	Osmotic Pressure	Daily	100	136	36.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	2/15/2012	Osmotic Pressure	Daily	100	120	20.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	2/29/2012	Osmotic Pressure	Monthly	50	128	156.00%	29	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	3/5/2012	Osmotic Pressure	Daily	100	114	14.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	3/15/2012	Osmotic Pressure	Daily	100	105	5.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	3/15/2012	pH	Daily	9	9.1	1.11%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	3/31/2012	Osmotic Pressure	Monthly	50	109.5	119.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	4/5/2012	Osmotic Pressure	Daily	100	114	14.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	4/17/2012	Osmotic Pressure	Daily	100	114	14.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	4/30/2012	Osmotic Pressure	Monthly	50	114	128.00%	30	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	5/1/2012	Osmotic Pressure	Daily	100	118	18.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	5/15/2012	Osmotic Pressure	Daily	100	141	41.00%	1	39-52-15	80-07-35	U.T. to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	5/31/2012	Osmotic Pressure	Monthly	50	129.5	159.00%	31	39-52-15	80-07-35	U.T. to Coal Lick Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	013	6/6/2012	Osmotic Pressure	Daily	100	141	41.00%	1	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	6/19/2012	Osmotic Pressure	Daily	100	114	14.00%	1	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	6/30/2012	Osmotic Pressure	Monthly	50	127.5	155.00%	30	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	7/2/2012	Osmotic Pressure	Daily	100	116	16.00%	1	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	7/16/2012	Osmotic Pressure	Daily	100	142	42.00%	1	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	7/19/2012	Osmotic Pressure	Daily	100	143	43.00%	1	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	7/31/2012	Osmotic Pressure	Monthly	50	133.7	167.40%	31	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	8/1/2012	Osmotic Pressure	Daily	100	114	14.00%	1	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	8/14/2012	Osmotic Pressure	Daily	100	114	14.00%	1	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	8/31/2012	Osmotic Pressure	Monthly	50	114	128.00%	31	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	9/9/2012	Osmotic Pressure	Daily	100	114	14.00%	1	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	9/30/2012	Osmotic Pressure	Monthly	50	102.5	105.00%	30	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	10/1/2012	Osmotic Pressure	Daily	100	116	16.00%	1	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	10/25/2012	Osmotic Pressure	Daily	100	117	17.00%	1	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	10/31/2012	Osmotic Pressure	Monthly	50	116.5	133.00%	31	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	11/30/2012	Osmotic Pressure	Monthly	50	55	10.00%	30	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	013	12/31/2012	Osmotic Pressure	Monthly	50	53.8	7.60%	31	39-52-15	80-07-35	U/T to Coal Lick Run
Emerald Coal Resources, LP	PA0213438	30841307	014	1/8/2008	Total Suspended Solids	Daily	70	81	16%	1	39-51-03	80-08-18	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	1/31/2008	Aluminum	Monthly	1.7	1.9	12%	31	39-51-03	80-08-18	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	1/31/2008	Total Suspended Solids	Monthly	35	41	17%	31	39-51-03	80-08-18	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	6/30/2012	Osmotic Pressure	Monthly	50	70	40.00%	30	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	7/26/2012	Aluminum	Daily	3.4	9.866	190.18%	1	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	7/26/2012	Iron	Daily	6	10.322	72.03%	1	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	7/26/2012	Osmotic Pressure	Daily	100	800	700.00%	1	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	7/26/2012	Total Suspended Solids	Daily	70	250	257.14%	1	39-51-03	80-08-18	U/T to Dyers Fork

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	014	7/31/2012	Aluminum	Monthly	1.7	9.9	482.35%	31	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	7/31/2012	Iron	Monthly	3	10.3	243.33%	31	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	7/31/2012	Total Suspended Solids	Monthly	35	250	614.29%	31	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	7/31/2012	Osmotic Pressure	Monthly	50	800	1500.00%	31	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	8/31/2012	Manganese	Monthly	2	2.3	15.00%	31	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	9/30/2012	Aluminum	Monthly	1.7	1.8	5.88%	30	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	9/30/2012	Total Suspended Solids	Monthly	35	38	8.57%	30	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	12/18/2012	Aluminum	Daily	3.4	5.41	59.12%	1	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	12/18/2012	Iron	Daily	6	7.95	32.50%	1	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	12/18/2012	Total Suspended Solids	Daily	70	191	172.86%	1	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	12/31/2012	Aluminum	Monthly	1.7	2.7	58.82%	31	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	12/31/2012	Iron	Monthly	3	4.2	40.00%	31	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	014	12/31/2012	Total Suspended Solids	Monthly	35	98	180.00%	31	39-51-03	80-08-18	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	11/16/2010	Manganese	Daily	2	3	50%	1	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	11/30/2010	Manganese	Monthly	1	3	200%	30	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	12/31/2010	Aluminum	Monthly	0.5	0.7	40%	31	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	11/30/2011	Aluminum	Monthly	0.5	0.8	60%	30	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	12/31/2011	Aluminum	Monthly	0.5	0.7	40%	31	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	1/31/2012	Aluminum	Monthly	0.5	0.6	20.00%	31	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	2/29/2012	Aluminum	Monthly	0.5	0.6	20.00%	29	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	3/5/2012	Aluminum	Daily	1	5.66	466.00%	1	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	3/5/2012	Iron	Daily	3	7.08	136.00%	1	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	3/5/2012	Total Suspended Solids	Daily	70	119	70.00%	1	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	3/15/2012	Aluminum	Daily	1	1.24	24.00%	1	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	3/31/2012	Aluminum	Monthly	0.5	3.4	580.00%	31	39-51-12	80-08-27	U.T. to Dyers Fork

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	015	3/31/2012	Iron	Monthly	1.5	4.3	186.67%	31	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	3/31/2012	Total Suspended Solids	Monthly	35	82	134.29%	31	39-51-12	80-08-27	U.T. to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	6/6/2012	Iron	Daily	3	3.7	23.33%	1	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	6/6/2012	Manganese	Daily	2	2.7	35.00%	1	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	6/19/2012	Manganese	Daily	2	2.4	20.00%	1	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	6/30/2012	Manganese	Monthly	1	2.6	160.00%	30	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	6/30/2012	Iron	Monthly	1.5	2.8	86.67%	30	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	7/2/2012	Manganese	Daily	2	2.474	23.70%	1	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	7/16/2012	Manganese	Daily	2	2.264	13.20%	1	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	7/31/2012	Iron	Monthly	1.5	2	33.33%	31	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	7/31/2012	Manganese	Monthly	1	2.4	140.00%	31	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	8/14/2012	Manganese	Daily	2	3.209	60.45%	1	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	8/31/2012	Iron	Monthly	1.5	1.8	20.00%	31	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	8/31/2012	Manganese	Monthly	1	2.6	160.00%	31	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	9/4/2012	Iron	Daily	3	3.86	28.67%	1	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	9/4/2012	Manganese	Daily	2	3.82	91.00%	1	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	9/30/2012	Manganese	Monthly	1	2.2	120.00%	30	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	9/30/2012	Iron	Monthly	1.5	2.4	60.00%	30	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	10/25/2012	Manganese	Daily	2	2.13	6.50%	1	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	10/31/2012	Manganese	Monthly	1	1.5	50.00%	31	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	015	11/30/2012	Iron	Monthly	1.5	1.6	6.67%	30	39-51-12	80-08-27	U/T to Dyers Fork
Emerald Coal Resources, LP	PA0213438	30841307	016	2/13/2006	Osmotic Pressure	Daily	100	151	51.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/16/2006	Osmotic Pressure	Daily	100	190	90.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/28/2006	Osmotic Pressure	Monthly	50	170.5	241.00%	28	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/22/2006	Osmotic Pressure	Daily	100	186	86.00%	1	39-52-11	80-05-15	U/T to Frosty Run

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	016	3/31/2006	Osmotic Pressure	Monthly	50	186	272.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2007	Osmotic Pressure	Monthly	50	51.5	3.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2008	Manganese	Monthly	1	1.1	10%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2008	Osmotic Pressure	Monthly	50	96	92.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/12/2008	Osmotic Pressure	Daily	100	110	10.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/21/2008	Osmotic Pressure	Daily	100	185	85.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/30/2008	Osmotic Pressure	Monthly	50	147.5	195.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/5/2008	Osmotic Pressure	Daily	100	220	120.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/23/2008	Osmotic Pressure	Daily	100	121	21.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2008	Osmotic Pressure	Monthly	50	170.5	241.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/13/2009	Osmotic Pressure	Daily	100	210	110.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/26/2009	Manganese	Daily	2	2.3	15%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/26/2009	Osmotic Pressure	Daily	100	240	140.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2009	Iron	Monthly	1.5	1.75	17%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2009	Manganese	Monthly	1	2.15	115%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2009	Osmotic Pressure	Monthly	50	225	350.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/10/2009	Osmotic Pressure	Daily	100	120	20.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/18/2009	Osmotic Pressure	Daily	100	105	5.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/28/2009	Osmotic Pressure	Monthly	50	112.5	125.00%	28	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/4/2009	Iron	Daily	3	3.3	10%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/4/2009	Total Suspended Solids	Daily	70	72	3%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/11/2009	pH	Daily	<9	9.2	2%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/31/2009	Iron	Monthly	1.5	1.8	20%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/31/2009	Osmotic Pressure	Monthly	50	70	40.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/31/2009	Total Suspended Solids	Monthly	35	37	6%	28	39-52-11	80-05-15	U/T to Frosty Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	016	4/9/2009	Osmotic Pressure	Daily	100	130	30.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/23/2009	Osmotic Pressure	Daily	100	172	72.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/30/2009	Osmotic Pressure	Monthly	50	151	202.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/20/2009	Osmotic Pressure	Daily	100	197	97.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/31/2009	Osmotic Pressure	Monthly	50	145	190.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/3/2009	Osmotic Pressure	Daily	100	227	127.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/25/2009	Osmotic Pressure	Daily	100	191	91.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/30/2009	Osmotic Pressure	Monthly	50	209	318.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/8/2009	Osmotic Pressure	Daily	100	214	114.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/15/2009	Osmotic Pressure	Daily	100	215	115.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/31/2009	Osmotic Pressure	Monthly	50	214.5	329.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/3/2009	Osmotic Pressure	Daily	100	196	96.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/17/2009	Osmotic Pressure	Daily	100	223	123.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/31/2009	Iron	Monthly	1.5	1.7	13%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/31/2009	Osmotic Pressure	Monthly	50	209.5	319.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/3/2009	Osmotic Pressure	Daily	100	181	81.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/11/2009	Osmotic Pressure	Daily	100	190	90.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/30/2009	Osmotic Pressure	Monthly	50	185.5	271.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/5/2009	Osmotic Pressure	Daily	100	141	41.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/22/2009	Iron	Daily	3	3.7	23%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/22/2009	Osmotic Pressure	Daily	100	166	66.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2009	Iron	Monthly	1.5	3.3	120%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2009	Osmotic Pressure	Monthly	50	153.5	207.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/2/2009	Osmotic Pressure	Daily	100	205	105.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/24/2009	Osmotic Pressure	Daily	100	210	110.00%	1	39-52-11	80-05-15	U/T to Frosty Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	016	11/24/2009	pH	Daily	<9	9.6	7%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/30/2009	Osmotic Pressure	Monthly	50	207.5	315.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/7/2009	Iron	Daily	3	4.9	63%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/7/2009	Osmotic Pressure	Daily	100	218	118.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/17/2009	Aluminum	Daily	1	3.3	230%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/17/2009	Iron	Daily	3	4.5	50%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2009	Aluminum	Monthly	0.5	1.7	240%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2009	Iron	Monthly	1.5	4.7	213%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2009	Osmotic Pressure	Monthly	50	218	336.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2009	Total Suspended Solids	Monthly	35	46.5	33%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/7/2010	Iron	Daily	3	7.3	143%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/7/2010	Osmotic Pressure	Daily	100	200	100.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/7/2010	Total Suspended Solids	Daily	70	102	46%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/20/2010	Osmotic Pressure	Daily	100	226	126.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2010	Iron	Monthly	1.5	4.9	227%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2010	Manganese	Monthly	1	1.1	10%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2010	Osmotic Pressure	Monthly	50	213	326.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2010	Total Suspended Solids	Monthly	35	72	106%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/1/2010	Osmotic Pressure	Daily	100	210	110.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/1/2010	pH	Daily	<9	9.5	6%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/25/2010	Osmotic Pressure	Daily	100	211	111.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/25/2010	pH	Daily	<9	9.8	9%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/25/2010	Total Suspended Solids	Daily	70	78	11%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/28/2010	Osmotic Pressure	Monthly	50	210.5	321.00%	28	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/28/2010	Total Suspended Solids	Monthly	35	39.5	13%	28	39-52-11	80-05-15	U/T to Frosty Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	016	3/9/2010	Osmotic Pressure	Daily	100	207	107.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/25/2010	Osmotic Pressure	Daily	100	167	67.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/31/2010	Iron	Monthly	1.5	1.85	23%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/31/2010	Osmotic Pressure	Monthly	50	187	274.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/7/2010	Osmotic Pressure	Daily	100	158	58.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/21/2010	Osmotic Pressure	Daily	100	198	98.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/30/2010	Manganese	Monthly	1	1.05	5%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/30/2010	Osmotic Pressure	Monthly	50	178	256.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/10/2010	Osmotic Pressure	Daily	100	222	122.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/24/2010	Osmotic Pressure	Daily	100	202	102.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/31/2010	Osmotic Pressure	Monthly	50	212	324.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/11/2010	Osmotic Pressure	Daily	100	207	107.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/21/2010	Osmotic Pressure	Daily	100	205	105.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/30/2010	Osmotic Pressure	Monthly	50	206	312.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/7/2010	Osmotic Pressure	Daily	100	125	25.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/27/2010	Osmotic Pressure	Daily	100	211	111.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/31/2010	Aluminum	Monthly	0.5	0.55	10%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/31/2010	Osmotic Pressure	Monthly	50	168	236.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/3/2010	Manganese	Daily	2	2.4	20%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/3/2010	Osmotic Pressure	Daily	100	201	101.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/12/2010	Osmotic Pressure	Daily	100	191	91.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/31/2010	Manganese	Monthly	1	1.8	80%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/31/2010	Osmotic Pressure	Monthly	50	196	292.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/7/2010	Osmotic Pressure	Daily	100	202	102.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/16/2010	Osmotic Pressure	Daily	100	199	99.00%	1	39-52-11	80-05-15	U/T to Frosty Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	016	9/30/2010	Osmotic Pressure	Monthly	50	200.5	301.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/7/2010	Iron	Daily	3	4.8	60%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/7/2010	Manganese	Daily	2	2.7	35%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/7/2010	Osmotic Pressure	Daily	100	214	114.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/26/2010	Osmotic Pressure	Daily	100	211	111.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2010	Iron	Monthly	1.5	2.8	87%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2010	Manganese	Monthly	1	2.2	120%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2010	Osmotic Pressure	Monthly	50	212.5	325.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/8/2010	Osmotic Pressure	Daily	100	219	119.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/8/2010	pH	Daily	<9	9.1	1%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/16/2010	Osmotic Pressure	Daily	100	175	75.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/16/2010	pH	Daily	<9	9.9	10%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/30/2010	Osmotic Pressure	Monthly	50	197	294.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/30/2010	Total Suspended Solids	Monthly	35	39.5	13%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/6/2010	Iron	Daily	3	7.3	143%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/6/2010	Manganese	Daily	2	2.2	10%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/6/2010	Osmotic Pressure	Daily	100	178	78.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/15/2010	Iron	Daily	3	13.2	340%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/15/2010	Manganese	Daily	2	2.3	15%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/15/2010	Osmotic Pressure	Daily	100	191	91.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2010	Aluminum	Monthly	0.5	0.55	10%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2010	Iron	Monthly	1.5	10.25	583%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2010	Manganese	Monthly	1	2.25	125%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2010	Osmotic Pressure	Monthly	50	184.5	269.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2010	Total Suspended Solids	Monthly	35	50	43%	31	39-52-11	80-05-15	U/T to Frosty Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	016	1/4/2011	Manganese	Daily	2	2.2	10%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/4/2011	Osmotic Pressure	Daily	100	196	96.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/13/2011	Iron	Daily	3	6.4	113%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/13/2011	Manganese	Daily	2	3	50%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/13/2011	Osmotic Pressure	Daily	100	227	127.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2011	Iron	Monthly	1.5	4.55	203%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2011	Manganese	Monthly	1	2.6	160%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2011	Osmotic Pressure	Monthly	50	211.5	323.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/8/2011	Osmotic Pressure	Daily	100	234	134.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/8/2011	pH	Daily	<9	10.8	20%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/15/2011	Iron	Daily	3	3.2	7%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/15/2011	Osmotic Pressure	Daily	100	230	130.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/28/2011	Iron	Monthly	1.5	1.75	17%	28	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/28/2011	Osmotic Pressure	Monthly	50	232	364.00%	28	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/28/2011	Total Suspended Solids	Monthly	35	50	43%	28	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/15/2011	Osmotic Pressure	Daily	100	179	79.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/22/2011	Osmotic Pressure	Daily	100	223	123.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/31/2011	Manganese	Monthly	1	1.05	5%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/31/2011	Osmotic Pressure	Monthly	50	201	302.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/7/2011	Iron	Daily	3	3.7	23%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/7/2011	Osmotic Pressure	Daily	100	193	93.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/19/2011	Osmotic Pressure	Daily	100	139	39.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/30/2011	Aluminum	Monthly	0.5	0.7	40%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/30/2011	Iron	Monthly	1.5	2.8	87%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/30/2011	Osmotic Pressure	Monthly	50	166	232.00%	30	39-52-11	80-05-15	U/T to Frosty Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	016	4/30/2011	Total Suspended Solids	Monthly	35	43.5	24%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/3/2011	Iron	Daily	3	3.2	7%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/3/2011	Manganese	Daily	2	2.1	5%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/3/2011	Osmotic Pressure	Daily	100	199	99.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/12/2011	Manganese	Daily	2	2.9	45%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/12/2011	Osmotic Pressure	Daily	100	214	114.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/31/2011	Iron	Monthly	1.5	2.8	87%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/31/2011	Manganese	Monthly	1	2.5	150%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/31/2011	Osmotic Pressure	Monthly	50	206.5	313.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/1/2011	Osmotic Pressure	Daily	100	190	90.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/9/2011	Osmotic Pressure	Daily	100	211	111.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/30/2011	Manganese	Monthly	1	1.4	40%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/30/2011	Osmotic Pressure	Monthly	50	200.5	301.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/6/2011	Osmotic Pressure	Daily	100	186	86.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/15/2011	Manganese	Daily	2	3	50%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/15/2011	Osmotic Pressure	Daily	100	211	111.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/31/2011	Manganese	Monthly	1	1.8	80%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/31/2011	Osmotic Pressure	Monthly	50	198.5	297.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/2/2011	Manganese	Daily	2	2.3	15%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/2/2011	Osmotic Pressure	Daily	100	198	98.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/9/2011	Osmotic Pressure	Daily	100	173	73.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/31/2011	Manganese	Monthly	1	1.35	35%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/31/2011	Osmotic Pressure	Monthly	50	185.5	271.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/2/2011	Osmotic Pressure	Daily	100	194	94.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/12/2011	Manganese	Daily	2	2.5	25%	1	39-52-11	80-05-15	U/T to Frosty Run

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	016	9/12/2011	Osmotic Pressure	Daily	100	199	99.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/30/2011	Manganese	Monthly	1	1.9	90%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/30/2011	Osmotic Pressure	Monthly	50	196.5	293.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/6/2011	Manganese	Daily	2	3.9	95%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/6/2011	Osmotic Pressure	Daily	100	201	101.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/19/2011	Manganese	Daily	2	2.4	20%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/19/2011	Osmotic Pressure	Daily	100	189	89.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2011	Iron	Monthly	1.5	2.2	47%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2011	Manganese	Monthly	1	3.15	215%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2011	Osmotic Pressure	Monthly	50	195	290.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/4/2011	Osmotic Pressure	Daily	100	179	79.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/25/2011	Iron	Daily	3	5.2	73%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/25/2011	Manganese	Daily	2	4.2	110%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/25/2011	Osmotic Pressure	Daily	100	183	83.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/30/2011	Iron	Monthly	1.5	2.85	90%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/30/2011	Manganese	Monthly	1	2.15	115%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/30/2011	Osmotic Pressure	Monthly	50	181	262.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/5/2011	Iron	Daily	3	3.5	17%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/5/2011	Manganese	Daily	2	2.8	40%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/5/2011	Osmotic Pressure	Daily	100	202	102.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/13/2011	Aluminum	Daily	1	1.1	10%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/13/2011	Iron	Daily	3	6.6	120%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/13/2011	Manganese	Daily	2	3.6	80%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/13/2011	Osmotic Pressure	Daily	100	195	95.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2011	Aluminum	Monthly	0.5	0.65	30%	31	39-52-11	80-05-15	U/T to Frosty Run

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2011	Iron	Monthly	1.5	5.05	237%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2011	Manganese	Monthly	1	3.2	220%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2011	Osmotic Pressure	Monthly	50	198.5	297.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/4/2012	Iron	Daily	3	3.95	31.67%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/4/2012	Manganese	Daily	2	3.08	54.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/4/2012	Osmotic Pressure	Daily	100	181	81.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/25/2012	Osmotic Pressure	Daily	100	174	74.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2012	Iron	Monthly	1.5	2.9	93.33%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2012	Manganese	Monthly	1	1.8	80.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2012	Osmotic Pressure	Monthly	50	177.5	255.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/8/2012	Osmotic Pressure	Daily	100	197	97.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/15/2012	Manganese	Daily	2	2.57	28.50%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/15/2012	Osmotic Pressure	Daily	100	206	106.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/29/2012	Manganese	Monthly	1	2	100.00%	29	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	2/29/2012	Osmotic Pressure	Monthly	50	201.5	303.00%	29	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/5/2012	Osmotic Pressure	Daily	100	199	99.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/15/2012	Osmotic Pressure	Daily	100	192	92.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	3/31/2012	Osmotic Pressure	Monthly	50	195.5	291.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/5/2012	Osmotic Pressure	Daily	100	194	94.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/17/2012	Osmotic Pressure	Daily	100	172	72.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/30/2012	Osmotic Pressure	Monthly	50	183	266.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	4/30/2012	Total Suspended Solids	Monthly	35	36	2.86%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/1/2012	Osmotic Pressure	Daily	100	180	80.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/15/2012	Osmotic Pressure	Daily	100	199	99.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	5/31/2012	Osmotic Pressure	Monthly	50	189.5	279.00%	31	39-52-11	80-05-15	U/T to Frosty Run

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Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0213438	30841307	016	6/6/2012	Osmotic Pressure	Daily	100	170	70.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/19/2012	Osmotic Pressure	Daily	100	167	67.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	6/30/2012	Osmotic Pressure	Monthly	50	168.5	237.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/2/2012	Osmotic Pressure	Daily	100	168	68.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/16/2012	Osmotic Pressure	Daily	100	163	63.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	7/31/2012	Osmotic Pressure	Monthly	50	165.5	231.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/1/2012	Osmotic Pressure	Daily	100	180	80.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/14/2012	Osmotic Pressure	Daily	100	167	67.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	8/31/2012	Osmotic Pressure	Monthly	50	173.5	247.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/4/2012	Osmotic Pressure	Daily	100	209	109.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/19/2012	Osmotic Pressure	Daily	100	168	68.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	9/30/2012	Osmotic Pressure	Monthly	50	188.5	277.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/1/2012	Osmotic Pressure	Daily	100	143	43.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/1/2012	pH	Daily	9	9.65	7.22%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/1/2012	Total Suspended Solids	Daily	70	347	395.71%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2012	Osmotic Pressure	Monthly	50	143	186.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	10/31/2012	Total Suspended Solids	Monthly	35	347	891.43%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	11/30/2012	Aluminum	Monthly	0.5	0.7	40.00%	30	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/18/2012	Aluminum	Daily	1	1.13	13.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	12/31/2012	Aluminum	Monthly	0.5	0.8	60.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2013	Aluminum	Daily	1	1.02	2.00%	1	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	016	1/31/2013	Aluminum	Monthly	0.5	0.6	20.00%	31	39-52-11	80-05-15	U/T to Frosty Run
Emerald Coal Resources, LP	PA0213438	30841307	017	1/26/2009	Iron	Daily	7	8.4	20%	1	39-54-16	80-09-06	Grimes Run
Emerald Coal Resources, LP	PA0213438	30841307	017	2/10/2009	Iron	Daily	7	18.6	166%	1	39-54-16	80-09-06	Grimes Run
Emerald Coal Resources, LP	PA0213438	30841307	017	1/7/2010	Settleable Solids	Daily	0.5	0.8	60%	1	39-54-16	80-09-06	Grimes Run
Emerald Coal Resources, LP	PA0215724	30753712	001	1/31/2006	Total Suspended Solids	Monthly	35	39.5	13%	31	39-53-04	80-11-47	U.T to Smith Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0215724	30753712	001	4/30/2006	Total Suspended Solids	Monthly	35	36.5	4%	30	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	3/31/2008	Iron	Monthly	3	3.4	13%	31	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	6/23/2008	Iron	Daily	6	20.6	243%	1	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	6/23/2008	Manganese	Daily	4	4.6	15%	1	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30960701	001	6/23/2008	pH	Daily	>6	5.2	13.33	1	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	6/30/2008	Iron	Monthly	3	10.6	253%	30	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	6/30/2008	Manganese	Monthly	2	2.35	18%	30	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	11/30/2008	Total Suspended Solids	Monthly	35	36.5	4%	30	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	2/9/2009	Total Suspended Solids	Daily	70	90	29%	1	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	2/28/2009	Total Suspended Solids	Monthly	35	57	63%	28	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	1/22/2010	Iron	Daily	6	9.2	53%	1	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	1/31/2010	Iron	Monthly	3	5.15	72%	31	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	1/31/2010	Total Suspended Solids	Monthly	35	41	17%	31	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	2/28/2010	Iron	Monthly	3	3.5	17%	28	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	2/28/2010	Manganese	Monthly	2	2.4	20%	28	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	3/9/2010	Iron	Daily	6	8.4	40%	1	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	3/31/2010	Iron	Monthly	3	4.55	52%	31	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	8/3/2010	Iron	Daily	6	13.1	118%	1	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	8/3/2010	Total Suspended Solids	Daily	70	152	117%	1	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	8/31/2010	Iron	Monthly	3	6.6	120%	31	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	8/31/2010	Total Suspended Solids	Monthly	35	77	120%	31	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	12/31/2010	Manganese	Monthly	2	2.2	10%	31	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	2/28/2011	Manganese	Monthly	2	2.35	18%	28	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	3/15/2011	Iron	Daily	6	9.5	58%	1	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	3/31/2011	Iron	Monthly	3	5.35	78%	31	39-53-04	80-11-47	U.T to Smith Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Emerald Coal Resources, LP	PA0215724	30753712	001	3/31/2011	Manganese	Monthly	2	2.85	43%	31	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	4/19/2011	Total Suspended Solids	Daily	70	90	29%	1	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	4/30/2011	Total Suspended Solids	Monthly	35	47	34%	30	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	9/30/2011	Manganese	Monthly	2	2.35	18%	30	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	10/31/2011	Manganese	Monthly	2	2.2	10%	31	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	8/14/2012	Manganese	Daily	4	4.471	11.78%	1	39-53-04	80-11-47	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	8/31/2012	Manganese	Monthly	2	3	50.00%	31	39-53-04	80-11-47	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	9/19/2012	pH	Daily	6	5.95	-0.83%	1	39-53-04	80-11-47	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	9/19/2012	Iron	Daily	6	7	16.67%	1	39-53-04	80-11-47	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	9/30/2012	Iron	Monthly	3	4.2	40.00%	30	39-53-04	80-11-47	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	10/31/2012	Manganese	Monthly	2	2.8	40.00%	31	39-53-04	80-11-47	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	11/2/2012	pH	Daily	6	4.93	-17.83%	1	39-53-04	80-11-47	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	11/2/2012	Iron	Daily	6	13.5	125.00%	1	39-53-04	80-11-47	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	11/2/2012	Manganese	Daily	4	6.04	51.00%	1	39-53-04	80-11-47	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	11/30/2012	Manganese	Monthly	2	3.6	80.00%	30	39-53-04	80-11-47	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	11/30/2012	Iron	Monthly	3	6.8	126.67%	30	39-53-04	80-11-47	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	1/31/2013	Manganese	Monthly	2	3	50.00%	31	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	2/28/2013	Manganese	Monthly	2	2.6	30%	28	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30753712	001	3/31/2013	Manganese	Monthly	2	2.1	5%	31	39-53-04	80-11-47	U.T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30960701	011	7/16/2012	Iron	Daily	6	13.13	118.83%	1	39-52-57	80-11-54	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30960701	011	7/31/2012	Iron	Monthly	3	7.8	160.00%	31	39-52-57	80-11-54	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30960701	011	9/30/2012	Iron	Monthly	3	3.6	20.00%	30	39-52-57	80-11-54	U/T to Smith Creek
Emerald Coal Resources, LP	PA0215724	30960701	011	10/31/2012	Total Suspended Solids	Monthly	35	38	8.57%	31	39-52-57	80-11-54	U/T to Smith Creek
Enterprise Mining Company, LLC	KYG041196	860-9013	BL-1	1/1/2012	Total Suspended Solids	Daily	70	101	44.29%	1	37-14-39	83-03-30	Brushy Fork
Enterprise Mining Company, LLC	KYG041196	860-9013	BL-1	1/31/2012	Total Suspended Solids	Monthly	35	39	11.43%	31	37-14-39	83-03-30	Brushy Fork
Enterprise Mining Company, LLC	KYG043269	860-0448	003 (SS-2A)	5/1/2011	Iron	Daily	4	12.2	205.00%	1	37-15-40	83-00-28	Left Fork of Trace Fork

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Enterprise Mining Company, LLC	KYG043269	860-0448	003 (SS-2A)	5/1/2011	Total Suspended Solids	Daily	70	548	682.86%	1	37-15-40	83-00-28	Left Fork of Trace Fork
Enterprise Mining Company, LLC	KYG043269	860-0448	003 (SS-2A)	5/31/2011	Iron	Monthly	3.5	6.3	80.00%	31	37-15-40	83-00-28	Left Fork of Trace Fork
Enterprise Mining Company, LLC	KYG043269	860-0448	003 (SS-2A)	5/31/2011	Total Suspended Solids	Monthly	35	281	702.86%	31	37-15-40	83-00-28	Left Fork of Trace Fork
Enterprise Mining Company, LLC	KYG043269	860-0448	026 (BS #26)	5/1/2011	Manganese	Daily	4	5.19	29.75%	1	37-16-11	83°01'04"	Kelly Fork
Enterprise Mining Company, LLC	KYG043269	860-0448	026 (BS #26)	5/31/2011	Manganese	Monthly	2	4.84	142.00%	31	37-16-11	83°01'04"	Kelly Fork
Enterprise Mining Company, LLC	KYG043269	860-0448	027 (SS-5)	3/1/2011	Alkalinity>Acidity	Daily	Alk>Acid			1	37° 16'18"	83°00'57"	Kelly Fork
Enterprise Mining Company, LLC	KYG043269	860-0448	027 (SS-5)	4/1/2011	Alkalinity>Acidity	Daily	Alk>Acid			1	37° 16'18"	83°00'57"	Kelly Fork
Enterprise Mining Company, LLC	KYG043269	860-0448	027 (SS-5)	4/30/2011	pH	Daily	6	4.3	-28.33%	1	37° 16'18"	83°00'57"	Kelly Fork
Enterprise Mining Company, LLC	KYG043269	860-0448	BS#15	7/31/2012	Total Suspended Solids	Monthly	35	36	2.86%	31	37-15-50	83-00-07	UT of Trace Fork
Enterprise Mining Company, LLC	KYG043269	860-0448	BS#18	4/20/2012	Total Suspended Solids	Daily	70	80	14.29%	1	37-16-13	83-00-15	UT of Trace Fork
Enterprise Mining Company, LLC	KYG043269	860-0448	BS#18	4/30/2012	Total Suspended Solids	Monthly	35	62	77.14%	30	37-16-13	83-00-15	UT of Trace Fork
Enterprise Mining Company, LLC	KYG043550	867-5269	008 (SS-5)	3/1/2007	Total Suspended Solids	Daily	70	89	27.14%	1	37-03-19	82-58-40	Bill Harris Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	008 (SS-5)	3/31/2007	Total Suspended Solids	Monthly	35	38.25	9.29%	31	37-03-19	82-58-40	Bill Harris Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	008 (SS-5)	7/31/2008	Total Suspended Solids	Monthly	35	42	20.00%	31	37-03-19	82-58-40	Bill Harris Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	008 (SS-5)	6/1/2011	Iron	Daily	4	14.12	253.00%	1	37-03-19	82-58-40	Bill Harris Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	008 (SS-5)	6/30/2011	Iron	Monthly	3.5	4.71	34.57%	30	37-03-19	82-58-40	Bill Harris Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	008 (SS-5)	8/6/2012	Iron	Daily	4	5.86	46.50%	1	37-03-19	82-58-40	Bill Harris Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	008 (SS-5)	8/6/2012	Total Suspended Solids	Daily	70	106	51.43%	1	37-03-19	82-58-40	Bill Harris Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	SS-1A	7/31/2012	Total Suspended Solids	Monthly	35	47	34.29%	31	37-03-53	82-58-26	UT of Big Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	SS-1A	8/6/2012	Iron	Daily	4	4.64	16.00%	1	37-03-53	82-58-26	UT of Big Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	SS-1A	8/6/2012	Total Suspended Solids	Daily	70	127	81.43%	1	37-03-53	82-58-26	UT of Big Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	SS-1A	8/31/2012	Total Suspended Solids	Monthly	35	55	57.14%	31	37-03-53	82-58-26	UT of Big Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	SS-1B	8/6/2012	Iron	Daily	4	6.5	62.50%	1	37-03-53	82-58-28	UT of Big Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	SS-1B	8/6/2012	Total Suspended Solids	Daily	70	162	131.43%	1	37-03-53	82-58-28	UT of Big Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	SS-1B	8/31/2012	Total Suspended Solids	Monthly	35	40	14.29%	31	37-03-53	82-58-28	UT of Big Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	SS-2	8/6/2012	Iron	Daily	4	12.96	224.00%	1	37-03-50	82-58-39	UT of Big Branch

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Enterprise Mining Company, LLC	KYG043550	867-5269	SS-2	8/6/2012	Total Suspended Solids	Daily	70	310	342.86%	1	37-03-50	82-58-39	UT of Big Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	SS-2	8/31/2012	Iron	Monthly	3.5	7.22	106.29%	31	37-03-50	82-58-39	UT of Big Branch
Enterprise Mining Company, LLC	KYG043550	867-5269	SS-2	8/31/2012	Total Suspended Solids	Monthly	35	173	394.29%	31	37-03-50	82-58-39	UT of Big Branch
Enterprise Mining Company, LLC	KYG043756	860-0447	021	7/19/2012	Total Suspended Solids	Daily	70	172	145.71%	1	37-14-31	83-01-00	Kelly Branch
Enterprise Mining Company, LLC	KYG043756	860-0447	021	7/31/2012	Total Suspended Solids	Monthly	35	94	168.57%	31	37-14-31	83-01-00	Kelly Branch
Enterprise Mining Company, LLC	KYG043756	860-0447	039 (BP-39)	7/19/2012	Iron	Daily	4	6.66	66.50%	1	37-14-21	83-00-35	UT of Carr Creek
Enterprise Mining Company, LLC	KYG043756	860-0447	039 (BP-39)	7/19/2012	Total Suspended Solids	Daily	70	88	25.71%	1	37-14-21	83-00-35	UT of Carr Creek
Enterprise Mining Company, LLC	KYG043756	860-0447	039 (BP-39)	7/31/2012	Total Suspended Solids	Monthly	35	35.8	2.29%	31	37-14-21	83-00-35	UT of Carr Creek
Enterprise Mining Company, LLC	KYG043756	860-0447	040 (BP-40)	12/21/2011	Settleable Solids	Daily	0.5	4	700.00%	1	37°14'35"	83°00'19"	UT Trace Fork/Trace Fork
Enterprise Mining Company, LLC	KYG043756	860-0447	BS 7-0	3/9/2012	Iron	Daily	4	4.6	15.00%	1	37-15-37	83-00-45	UT of Trace Fork
Enterprise Mining Company, LLC	KYG043756	860-0447	BS 7-0	3/9/2012	Total Suspended Solids	Daily	70	84	20.00%	1	37-15-37	83-00-45	UT of Trace Fork
Enterprise Mining Company, LLC	KYG043756	860-0447	BS 7-0	3/31/2012	Iron	Monthly	3.5	4.6	31.43%	31	37-15-37	83-00-45	UT of Trace Fork
Enterprise Mining Company, LLC	KYG043756	860-0447	BS 7-0	3/31/2012	Total Suspended Solids	Monthly	35	84	140.00%	31	37-15-37	83-00-45	UT of Trace Fork
Enterprise Mining Company, LLC	KYG043756	860-0447	BS 7-0	12/18/2012	Total Suspended Solids	Daily	70	75	7.14%	1	37-15-37	83-00-45	UT of Trace Fork
Enterprise Mining Company, LLC	KYG043756	860-0447	BS 7-0	12/31/2012	Total Suspended Solids	Monthly	35	75	114.29%	31	37-15-37	83-00-45	UT of Trace Fork
Enterprise Mining Company, LLC	KYG043756	860-7010	YC-3	1/1/2012	Total Suspended Solids	Daily	70	101	44.29%	1	37-14-39	83-03-30	Brushy Fork
Enterprise Mining Company, LLC	KYG044100	860-8015	DO-6	3/9/2012	Iron	Daily	4	5.2	30.00%	1	37-14-17	83-03-21	UT of Yellow Creek
Enterprise Mining Company, LLC	KYG044100	860-8015	DO-6	6/20/2012	Iron	Daily	4	7.405	85.13%	1	37-14-17	83-03-21	UT of Yellow Creek
Enterprise Mining Company, LLC	KYG044100	860-8015	YC-3	1/1/2012	Total Suspended Solids	Daily	70	101	44.29%	1	37-14-39	83-03-30	Brushy Fork
Enterprise Mining Company, LLC	KYG044100	860-8015	YC-3	1/31/2012	Total Suspended Solids	Monthly	35	39	11.43%	31	37-14-39	83-03-30	Brushy Fork
Enterprise Mining Company, LLC	KYG044553	867-7024	SS-2	1/31/2013	Total Suspended Solids	Monthly	35	40.5	15.71%	31	37-06-39	82-56-36	UT of N. Fork of KY River
Enterprise Mining Company, LLC	KYG044668	867-5272	017 (SS-1)	3/1/2009	Alkalinity>Acidity	Daily	Alk>Acid			1	37-08-21	82-50-16	Thompson Br
Enterprise Mining Company, LLC	KYG044668	867-5272	017 (SS-1)	5/1/2009	Alkalinity>Acidity	Daily	Alk>Acid			1	37-08-21	82-50-16	Thompson Br
Enterprise Mining Company, LLC	KYG044668	867-5272	017 (SS-1)	5/1/2009	Alkalinity>Acidity	Daily	Alk>Acid			1	37-08-21	82-50-16	Thompson Br
Enterprise Mining Company, LLC	KYG044668	867-5272	017 (SS-1)	6/30/2009	Manganese	Monthly	2	2.34	17.00%	30	37-08-21	82-50-16	Thompson Br
Enterprise Mining Company, LLC	KYG044668	867-5272	017 (SS-1)	8/1/2009	Alkalinity>Acidity	Daily	Alk>Acid			1	37-08-21	82-50-16	Thompson Br
Enterprise Mining Company, LLC	KYG044668	867-5272	017 (SS-1)	8/7/2012	Iron	Daily	4	35.6	790.00%	1	37-08-21	82-50-16	Thompson Branch
Enterprise Mining Company, LLC	KYG044668	867-5272	017 (SS-1)	8/7/2012	Total Suspended Solids	Daily	70	2712	3774.29%	1	37-08-21	82-50-16	Thompson Branch
Enterprise Mining Company, LLC	KYG044668	867-5272	017 (SS-1)	8/7/2012	Settleable Solids	Daily	0.5	2.2	340.00%	1	37-08-21	82-50-16	Thompson Branch

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Enterprise Mining Company, LLC	KYG044668	867-5272	017 (SS-1)	8/31/2012	Total Suspended Solids	Monthly	35	1359	3782.86%	31	37-08-21	82-50-16	Thompson Branch
Enterprise Mining Company, LLC	KYG044668	867-5272	017 (SS-1)	8/31/2012	Iron	Monthly	3.5	12.5	257.14%	31	37-08-21	82-50-16	Thompson Branch
Enterprise Mining Company, LLC	KYG044668	867-5272	018 (SS-2)	6/30/2007	Manganese	Monthly	2	2.23	11.50%	30	37°09'50"	82°49'44"	UT to Sandlick Creek/Sandlick Creek
Enterprise Mining Company, LLC	KYG044668	867-5272	018 (SS-2)	7/1/2011	Iron	Daily	4	4.71	17.75%	1	37-09-50	82-49-44	Unnamed Stream of Sandlick Creek
Enterprise Mining Company, LLC	KYG044668	867-5272	018 (SS-2)	8/7/2012	Total Suspended Solids	Daily	70	260	271.43%	1	37°09'50"	82°49'44"	Thompson Branch
Enterprise Mining Company, LLC	KYG044668	867-5272	018 (SS-2)	8/31/2012	Total Suspended Solids	Monthly	35	132	277.14%	31	37°09'50"	82°49'44"	Thompson Branch
Enterprise Mining Company, LLC	KYG044706	860-0449	101 (101)	3/1/2009	Manganese	Daily	4	7.27	81.75%	1	37-15-02	83-03-22	Yellow Creek
Enterprise Mining Company, LLC	KYG044706	860-0449	101 (101)	3/31/2009	Manganese	Monthly	2	4.08	104.00%	31	37-15-02	83-03-22	Yellow Creek
Enterprise Mining Company, LLC	KYG044765	860-5282	035	3/9/2012	Iron	Daily	4	5.6	40.00%	1	37-14-57	83-02-07	Sassafras Creek
Enterprise Mining Company, LLC	KYG044785	867-5276	021	3/15/2010	Iron	Daily	6	7.3	21.67%	1	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG044785	867-5276	021	3/31/2010	Iron	Monthly	3.5	5.07	44.86%	31	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG044785	867-5276	021	4/15/2010	Iron	Daily	6	11	83.33%	1	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG044785	867-5276	021	4/15/2010	Total Suspended Solids	Daily	70	99	41.43%	1	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG044785	867-5276	021	4/30/2010	Iron	Monthly	3.5	10.01	186.00%	30	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG044785	867-5276	021	4/30/2010	Manganese	Monthly	2	2.1	5.00%	30	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG044785	867-5276	021	4/30/2010	Total Suspended Solids	Monthly	35	59	68.57%	30	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG044785	867-5276	021	5/15/2010	Iron	Daily	6	8.09	34.83%	1	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG044785	867-5276	021	5/31/2010	Iron	Monthly	3.5	6.11	74.57%	31	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG044785	867-5276	021	6/30/2010	Iron	Monthly	3.5	3.59	2.57%	30	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG044785	867-5276	021	6/30/2011	Iron	Daily	4	4.97	24.25%	1	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG044785	867-5276	021	6/30/2011	Iron	Monthly	3.5	3.59	2.57%	30	37°07'36"	82°53'31"	UT NF KY River
Enterprise Mining Company, LLC	KYG045027	867-5280	029	2/1/2011	Manganese	Daily	4	4.05	1.25%	1	37-01-38	82-59-36	UT Deadening Branch/Deadening Branch
Enterprise Mining Company, LLC	KYG045027	867-5280	029	2/28/2011	Manganese	Monthly	2	2.52	26.00%	28	37-01-38	82-59-36	UT Deadening Branch/Deadening Branch

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Enterprise Mining Company, LLC	KYG045027	867-5280	DO-2	3/5/2012	Total Suspended Solids	Daily	70	95	35.71%	1	37-01-59	82-59-31	UT of Deadening Branch
Enterprise Mining Company, LLC	KYG045027	867-5280	DO-2	3/31/2012	Total Suspended Solids	Monthly	35	95	171.43%	31	37-01-59	82-59-31	UT of Deadening Branch
Enterprise Mining Company, LLC	KYG045027	867-5280	DO-3	12/1/2009	Alkalinity>Acidity	Daily	Alk>Acid			1	37-01-38	82-59-35	Deadening Branch
Enterprise Mining Company, LLC	KYG045039	867-0444	SS-1	4/2/2012	Iron	Daily	3.5	6.11	74.57%	1	37-02-53	82-53-57	UT of Kings Creek
Enterprise Mining Company, LLC	KYG045039	867-0444	SS-1	4/2/2012	Total Suspended Solids	Daily	70	172	145.71%	1	37-02-53	82-53-57	UT of Kings Creek
Enterprise Mining Company, LLC	KYG045039	867-0444	SS-1	4/30/2012	Total Suspended Solids	Monthly	35	62	77.14%	30	37-02-53	82-53-57	UT of Kings Creek
Enterprise Mining Company, LLC	KYG045039	867-0444	SS-1	7/16/2012	Iron	Daily	4	6.74	68.50%	1	37-02-53	82-53-57	UT of Kings Creek
Enterprise Mining Company, LLC	KYG045039	867-0444	SS-1	7/16/2012	Total Suspended Solids	Daily	70	171	144.29%	1	37-02-53	82-53-57	UT of Kings Creek
Enterprise Mining Company, LLC	KYG045039	867-0444	SS-1	7/16/2012	Total Suspended Solids	Daily	70	75	7.14%	1	37-02-53	82-53-57	UT of Kings Creek
Enterprise Mining Company, LLC	KYG045039	867-0444	SS-1	7/31/2012	Total Suspended Solids	Monthly	35	65	85.71%	31	37-02-53	82-53-57	UT of Kings Creek
Enterprise Mining Company, LLC	KYG045054	867-5268	004 (SS-2)	10/13/2008	Total Suspended Solids	Daily	70	112	60.00%	1	37-04-06	82-55-57	Carrion Br
Enterprise Mining Company, LLC	KYG045054	867-5268	004 (SS-2)	10/31/2008	Total Suspended Solids	Monthly	35	58	65.71%	31	37-04-06	82-55-57	Carrion Br
Enterprise Mining Company, LLC	KYG045054	867-5268	004 (SS-2)	6/30/2011	Total Suspended Solids	Daily	70	72	2.86%	1	37-04-06	82-55-57	Carrion Br
Enterprise Mining Company, LLC	KYG045054	867-5268	DO-13	7/16/2012	Total Suspended Solids	Daily	70	88	25.71%	1	37-04-12	82-56-18	UT of Carrion Branch
Enterprise Mining Company, LLC	KYG045054	867-5268	DO-13	7/31/2012	Manganese	Monthly	2	2.29	14.50%	31	37-04-12	82-56-18	UT of Carrion Branch
Enterprise Mining Company, LLC	KYG045054	867-5268	DO-13	7/31/2012	Total Suspended Solids	Monthly	35	88	151.43%	31	37-04-12	82-56-18	UT of Carrion Branch
Enterprise Mining Company, LLC	KYG045054	867-5268	DO-13	3/5/2013	Settleable Solids	Daily	0.5	1.5	200.00%	1	37-04-11	82-56-17	UT of Carrion Branch
Enterprise Mining Company, LLC	KYG045110	867-5283	K1	3/1/2007	Total Suspended Solids	Daily	70	126	80.00%	1	36-59-24	83-04-33	Koyle Branch
Enterprise Mining Company, LLC	KYG045110	867-5283	KW1	3/31/2007	Total Suspended Solids	Monthly	35	40.5	15.71%	31	36-59-29	83-04-33	Koyle Branch
Enterprise Mining Company, LLC	KYG045194	860-7010	003 (SS-3)	5/1/2011	Iron	Daily	4	12.15	203.75%	1	37° 15'40"	83°00'28"	Not listed (Actually Left Fork of Trace Fork)
Enterprise Mining Company, LLC	KYG045194	860-7010	003 (SS-3)	5/1/2011	Total Suspended Solids	Daily	70	548	682.86%	1	37° 15'40"	83°00'28"	Not listed (Actually Left Fork of Trace Fork)
Enterprise Mining Company, LLC	KYG045194	860-7010	003 (SS-3)	5/31/2011	Iron	Monthly	3.5	6.3	80.00%	31	37° 15'40"	83°00'28"	Not listed (Actually Left Fork of Trace Fork)

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Enterprise Mining Company, LLC	KYG045194	860-7010	003 (SS-3)	5/31/2011	Total Suspended Solids	Monthly	35	281	702.86%	31	37°15'40"	83°00'28"	Not listed (Actually Left Fork of Trace Fork)
Enterprise Mining Company, LLC	KYG045194	860-7010	035 (SS-35)	4/1/2011	Total Suspended Solids	Daily	70	88	25.71%	1	37-14-57	83-02-07	Sassafras Creek
Enterprise Mining Company, LLC	KYG045194	860-7010	035 (SS-35)	4/30/2011	Total Suspended Solids	Monthly	35	50	42.86%	30	37-14-57	83-02-07	Sassafras Creek
Enterprise Mining Company, LLC	KYG045194	860-7010	035 (SS-35)	3/9/2012	Iron	Daily	4	5.6	40.00%	1	37-14-57	83-02-07	Sassafras Creek
Enterprise Mining Company, LLC	KYG045194	860-7010	FW-1	3/7/2013	Iron	Daily	4.00	5.56	39.00%	1	37-15-30	83-00-48	UT of Lt.Fk. Of Trace Fk.
Enterprise Mining Company, LLC	KYG045194	860-7010	FW-1	3/7/2013	Total Suspended Solids	Daily	70	210	200.00%	1	37-15-30	83-00-48	UT of Lt.Fk. Of Trace Fk.
Enterprise Mining Company, LLC	KYG045194	860-7010	FW-1	3/7/2013	Total Suspended Solids	Monthly	35	111	217.14%	31	37-15-30	83-00-48	UT of Lt.Fk. Of Trace Fk.
Enterprise Mining Company, LLC	KYG045194	860-7010	YC-3	1/31/2012	Total Suspended Solids	Monthly	35	39	11.43%	31	37-14-39	83-03-30	Brushy Fork
Enterprise Mining Company, LLC	KYG045195	860-5284	003 (SS-3)	7/31/2011	Total Suspended Solids	Monthly	35	37	5.71%	31	37°16'29"	83°03'24"	Youngs Fork
Enterprise Mining Company, LLC	KYG045195	860-0450	003 (SS-3)	7/31/2012	Total Suspended Solids	Monthly	35	50.5	44.29%	31	37°16'29"	83°03'24"	Youngs Fork
Enterprise Mining Company, LLC	KYG045195	860-5284	003 (SS-3)	8/2/2012	Iron	Daily	4	4.06	1.50%	1	37°16'29"	83°03'24"	Youngs Fork
Enterprise Mining Company, LLC	KYG045195	860-5284	003 (SS-3)	8/2/2012	Total Suspended Solids	Daily	70	94.8	35.43%	1	37°16'29"	83°03'24"	Youngs Fork
Enterprise Mining Company, LLC	KYG045195	860-5284	003 (SS-3)	8/2/2012	Settleable Solids	Daily	0.5	1.5	200.00%	1	37°16'29"	83°03'24"	Youngs Fork
Enterprise Mining Company, LLC	KYG045195	860-5284	003 (SS-3)	8/31/2012	Total Suspended Solids	Monthly	35	57.9	65.43%	31	37°16'29"	83°03'24"	Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	001 (1)	12/1/2008	Manganese	Daily	4	7.25	81.25%	1	37-16-36	83-02-54	UT to Youngs Fork/Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	001 (1)	12/31/2008	Manganese	Monthly	2	4.03	101.50%	31	37-16-36	83-02-54	UT to Youngs Fork/Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	001 (1)	3/1/2009	Manganese	Daily	4	7.02	75.50%	1	37-16-36	83-02-54	UT to Youngs Fork/Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	001 (1)	3/31/2009	Manganese	Monthly	2	3.695	84.75%	31	37-16-36	83-02-54	UT to Youngs Fork/Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	001 (1)	3/1/2010	Manganese	Daily	4	54	1250.00%	1	37-16-36	83-02-54	UT to Youngs Fork/Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	001 (1)	3/31/2010	Manganese	Monthly	2	45	2150.00%	31	37-16-36	83-02-54	UT to Youngs Fork/Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	003 (SS-3)	7/31/2011	Total Suspended Solids	Monthly	35	37	5.71%	31	37°16'28"	83°03'17"	Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	003 (SS-3)	7/31/2012	Total Suspended Solids	Monthly	35	50.5	44.29%	31	37-16-28	83-03-17	Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	003 (SS-3)	8/2/2012	Iron	Daily	4	4.06	1.50%	1	37-16-28	83-03-17	Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	003 (SS-3)	8/2/2012	Total Suspended Solids	Daily	70	94.8	35.43%	1	37-16-28	83-03-17	Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	003 (SS-3)	8/2/2012	Settleable Solids	Daily	0.5	1.5	200.00%	1	37-16-28	83-03-17	Youngs Fork
Enterprise Mining Company, LLC	KYG045202	860-0450	003 (SS-3)	8/31/2012	Total Suspended Solids	Monthly	35	57.9	65.43%	31	37-16-28	83-03-17	Youngs Fork
Enterprise Mining Company, LLC	KYG045283	867-5278	022	11/1/2011	Iron	Daily	4	4.84	21.00%	1	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Enterprise Mining Company, LLC	KYG045283	867-5278	022	11/1/2011	Total Suspended Solids	Daily	70	165	135.71%	1	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	022	11/30/2011	Iron	Monthly	3.5	4.09	16.86%	30	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	022	11/30/2011	Total Suspended Solids	Monthly	35	131	274.29%	30	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5283	K1	3/1/2007	Total Suspended Solids	Daily	70	84	20.00%	1	36°59'24"	83°04'33"	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5283	K1	8/1/2007	Iron	Daily	6	26.5	341.67%	1	36°59'24"	83°04'33"	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5283	K1	8/31/2007	Iron	Monthly	3	13.32	344.00%	31	36°59'24"	83°04'33"	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SS-1	4/2/2012	Total Suspended Solids	Daily	70	124	77.14%	1	37-02-55	83-00-02	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SS-1	4/30/2012	Total Suspended Solids	Monthly	35	61	74.29%	30	37-02-55	83-00-02	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SS-2	8/31/2012	Total Suspended Solids	Monthly	35	50	42.86%	31	37-03-01	82-59-44	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SW3	3/31/2009	Iron	Monthly	3	3.515	17.17%	31	37-01-56	83-01-24	Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SW3	7/31/2009	Iron	Monthly	3	4.34	44.67%	31	37-01-56	83-01-24	Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SW3	8/6/2012	Iron	Daily	4	5.47	36.75%	1	37-01-56	83-01-24	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SW3	8/16/2012	Iron	Daily	4	4.74	18.50%	1	37-01-56	83-01-24	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SW3	8/31/2012	Iron	Monthly	3.5	5.11	46.00%	31	37-01-56	83-01-24	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SW3	10/16/2012	Iron	Daily	4	5.05	26.25%	1	37-01-56	83-01-24	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SW3	10/16/2012	pH	Daily	9.00	11	22.22%	1	37-01-56	83-01-24	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SW3	10/31/2012	Iron	Monthly	3.5	4.13	18.00%	31	37-01-56	83-01-24	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045283	867-5278	SW3	11/1/2012	Iron	Daily	4	4.13	3.25%	1	37-01-56	83-01-24	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045578	867-5281	BS2	8/1/2007	Iron	Daily	6	12.7	111.67%	1	37°08'45"	83°00'54"	Talent Branch
Enterprise Mining Company, LLC	KYG045578	867-5281	BS2	8/31/2007	Iron	Monthly	3	6.46	115.33%	31	37°08'45"	83°00'54"	Talent Branch
Enterprise Mining Company, LLC	KYG045586	867-5282	SS-1	8/7/2012	Iron	Daily	4	6.35	58.75%	1	37-09-47	82-49-19	UT of Sandlick Creek
Enterprise Mining Company, LLC	KYG045586	867-5282	SS-1	8/31/2012	Total Suspended Solids	Monthly	35	41.5	18.57%	31	37-09-47	82-49-19	UT of Sandlick Creek
Enterprise Mining Company, LLC	KYG045628	867-5272	017	9/19/2008	Manganese	Daily	4	4.01	0.25%	1	37-08-21	82-50-16	Thompson Br
Enterprise Mining Company, LLC	KYG045628	867-5275	019	8/1/2007	Iron	Daily	6	26.5	341.67%	1	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Enterprise Mining Company, LLC	KYG045628	867-5275	019	8/31/2007	Iron	Monthly	3	13.32	344.00%	31	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045628	867-5275	019	11/1/2011	Iron	Daily	4	4.84	21.00%	1	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045628	867-5275	019	11/1/2011	Total Suspended Solids	Daily	70	165	135.71%	1	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045628	867-5275	019	11/30/2011	Iron	Monthly	3.5	4.09	16.86%	30	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045628	867-5275	019	11/30/2011	Total Suspended Solids	Monthly	35	131	274.29%	30	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045628	867-5275	019	4/2/2012	Total Suspended Solids	Daily	70	124	77.14%	1	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045628	867-5275	019	4/30/2012	Total Suspended Solids	Monthly	35	61	74.29%	30	37-02-55	83-00-02	UT Defeated Creek/Defeated Creek
Enterprise Mining Company, LLC	KYG045628	867-5275	SS-2	8/31/2012	Total Suspended Solids	Monthly	35	50	42.86%	31	37-03-01	82-59-44	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-1	5/31/2011	Iron	Daily	4	6.47	61.75%	1	37-12-29	82-58-22	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-1	5/31/2011	Total Suspended Solids	Daily	70	150	114.29%	1	37-12-29	82-58-22	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-1	5/31/2011	Total Suspended Solids	Monthly	35	80	128.57%	31	37-12-29	82-58-22	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-1	4/4/2012	Total Suspended Solids	Daily	70	95	35.71%	1	37-12-29	82-58-22	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-1	4/30/2012	Total Suspended Solids	Monthly	35	51	45.71%	30	37-12-29	82-58-22	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-1	9/18/2012	Settleable Solids	Daily	0.5	1.7	240.00%	1	37-12-29	82-58-22	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-1	9/18/2012	Total Suspended Solids	Daily	70	5840	8242.86%	1	37-12-29	82-58-22	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-1	9/18/2012	Iron	Daily	4	112	2700.00%	1	37-12-29	82-58-22	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-1	9/30/2012	Total Suspended Solids	Monthly	35	5840	16585.71%	30	37-12-29	82-58-22	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-1	9/30/2012	Manganese	Monthly	2	3.81	90.50%	30	37-12-29	82-58-22	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-1	9/30/2012	Iron	Monthly	3.5	112	3100.00%	30	37-12-29	82-58-22	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-3	4/4/2012	Total Suspended Solids	Daily	70	84	20.00%	1	37-12-31	82-58-35	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-3	4/30/2012	Total Suspended Solids	Monthly	35	50	42.86%	30	37-12-31	82-58-35	UT of Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	1/31/2011	Total Suspended Solids	Daily	70	120	71.43%	1	37-12-31	82-58-29	Defeated Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	1/31/2011	Total Suspended Solids	Monthly	35	65	85.71%	31	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	4/30/2011	Iron	Daily	4	4.24	6.00%	1	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	4/30/2011	Total Suspended Solids	Daily	70	106	51.43%	1	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	4/30/2011	Total Suspended Solids	Monthly	35	57	62.86%	30	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	5/31/2011	Iron	Daily	4	6.54	63.50%	1	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	5/31/2011	Total Suspended Solids	Daily	70	182	160.00%	1	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	5/31/2011	Total Suspended Solids	Monthly	35	97	177.14%	31	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	4/4/2012	Total Suspended Solids	Daily	70	88	25.71%	1	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	4/30/2012	Total Suspended Solids	Monthly	35	48	37.14%	30	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	9/18/2012	Total Suspended Solids	Daily	70	295	321.43%	1	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	9/18/2012	Iron	Daily	4	11.36	184.00%	1	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	9/30/2012	Total Suspended Solids	Monthly	35	117	234.29%	30	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045741	860-5285	SS-4	9/30/2012	Iron	Monthly	3.5	6.25	78.57%	30	37-12-31	82-58-29	Defeated Creek
Enterprise Mining Company, LLC	KYG045784	860-0452	002	7/18/2012	Total Suspended Solids	Daily	70	84	20.00%	1	37-17-30	82-59-23	UT of Big Branch
Enterprise Mining Company, LLC	KYG045784	860-0452	002	7/31/2012	Total Suspended Solids	Monthly	35	46	31.43%	31	37-17-30	82-59-23	UT of Big Branch
Enterprise Mining Company, LLC	KYG045784	860-0452	044	5/15/2012	Manganese	Daily	4	6.9	72.50%	1	37°17'13"	82°59'01"	Madden Fork
Enterprise Mining Company, LLC	KYG045784	860-0452	044	5/31/2012	Manganese	Monthly	2	4.2	110.00%	31	37°17'13"	82°59'01"	Madden Fork
Enterprise Mining Company, LLC	KYG045784	860-0452	001 (1)	7/1/2011	Iron	Daily	4	9.89	147.25%	1	37°17'34"	82°59'35"	UT Big Branch/Big Branch
Enterprise Mining Company, LLC	KYG045784	860-0452	001 (1)	7/1/2011	Total Suspended Solids	Daily	70	317	352.86%	1	37°17'34"	82°59'35"	UT Big Branch/Big Branch
Enterprise Mining Company, LLC	KYG045784	860-0452	001 (1)	7/31/2011	Iron	Monthly	3.5	4.98	42.29%	31	37°17'34"	82°59'35"	UT Big Branch/Big Branch
Enterprise Mining Company, LLC	KYG045784	860-0452	001 (1)	7/31/2011	Total Suspended Solids	Monthly	35	163	365.71%	31	37°17'34"	82°59'35"	UT Big Branch/Big Branch
Enterprise Mining Company, LLC	KYG045784	860-0452	001 (1)	7/18/2012	Iron	Daily	4	8.44	111.00%	1	37°17'34"	82°59'35"	UT of Big Branch
Enterprise Mining Company, LLC	KYG045784	860-0452	001 (1)	7/18/2012	Total Suspended Solids	Daily	70	263	275.71%	1	37°17'34"	82°59'35"	UT of Big Branch
Enterprise Mining Company, LLC	KYG045784	860-0452	001 (1)	7/18/2012	Settleable Solids	Daily	0.5	1	100.00%	1	37°17'34"	82°59'35"	UT of Big Branch
Enterprise Mining Company, LLC	KYG045784	860-0452	001 (1)	7/31/2012	Total Suspended Solids	Monthly	35	95.3	172.29%	31	37°17'34"	82°59'35"	UT of Big Branch
Enterprise Mining Company, LLC	KYG045784	860-0452	004 (4)	7/1/2011	Iron	Daily	4	4.08	2.00%	1	37°16'31"	82°59'48"	Trace Fork
Enterprise Mining Company, LLC	KYG045784	860-0452	004 (4)	7/1/2011	Total Suspended Solids	Daily	70	132	88.57%	1	37°16'31"	82°59'48"	Trace Fork
Enterprise Mining Company, LLC	KYG045784	860-0452	004 (4)	7/31/2011	Total Suspended Solids	Monthly	35	76	117.14%	31	37°16'31"	82°59'48"	Trace Fork
Enterprise Mining Company, LLC	KYG045997	860-0453	034 (34)	7/1/2011	Total Suspended Solids	Daily	70	92	31.43%	1	37°16'16"	82°59'58"	Trace Fork
Enterprise Mining Company, LLC	KYG045997	860-0453	034 (34)	7/31/2011	Total Suspended Solids	Monthly	35	56	60.00%	31	37°16'16"	82°59'58"	Trace Fork
Enterprise Mining Company, LLC	KYG046035	867-8052	039	1/1/2011	Iron	Daily	4	12	200.00%	1	37-06-36	82-56-07	UT NF KY River
Enterprise Mining Company, LLC	KYG046035	867-8052	039	1/1/2011	Alkalinity>Acidity	Daily	Alk>Acid			1	37-06-36	82-56-07	UT NF KY River
Enterprise Mining Company, LLC	KYG046035	867-8052	039	1/31/2011	Iron	Monthly	3.5	12	242.86%	31	37-06-36	82-56-07	UT NF KY River

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	5/1/2007	Total Suspended Solids	Daily	70	133	90.00%	1	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	5/31/2007	Total Suspended Solids	Monthly	35	101	188.57%	31	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	8/1/2007	Total Suspended Solids	Daily	70	97	38.57%	1	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	8/31/2007	Total Suspended Solids	Monthly	35	87	148.57%	31	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	5/14/2008	Total Suspended Solids	Daily	70	77	10.00%	1	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	6/5/2008	Iron	Daily	6	6.14	2.33%	1	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	7/31/2012	Manganese	Monthly	2	2.09	4.50%	31	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	8/6/2012	Iron	Daily	4	53	1225.00%	1	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	8/6/2012	Total Suspended Solids	Daily	70	2408	3340.00%	1	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	8/6/2012	Settleable Solids	Daily	0.5	15.9	3080.00%	1	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	8/31/2012	Iron	Monthly	3.5	7.78	122.29%	31	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	8/31/2012	Total Suspended Solids	Monthly	35	407	1062.86%	31	37-06-59	82-55-35	Oldhouse Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	11/1/2012	Manganese	Daily	4	4.5	12.50%	1	37-06-59	82-55-35	Old House Branch
Enterprise Mining Company, LLC	KYG046035	867-8051	036 (SS-1)	11/30/2012	Manganese	Monthly	2	2.66	33.00%	30	37-06-59	82-55-35	Old House Branch
Enterprise Mining Company, LLC	KYG046035	867-8052	SS-2	8/6/2012	Iron	Daily	4	7.32	83.00%	1	37-06-39	82-56-06	UT of N. Fk of KY River
Enterprise Mining Company, LLC	KYG046035	867-8052	SS-2	8/6/2012	Total Suspended Solids	Daily	70	364	420.00%	1	37-06-39	82-56-06	UT of N. Fk of KY River
Enterprise Mining Company, LLC	KYG046035	867-8052	SS-2	8/31/2012	Total Suspended Solids	Monthly	35	79.2	126.29%	31	37-06-39	82-56-06	UT of N. Fk of KY River
Enterprise Mining Company, LLC	KYG046035	867-8052	SS-2	1/31/2013	Total Suspended Solids	Monthly	35	40.5	15.71%	31	37-06-39	82-56-06	UT of N. Fork of KY River
Enterprise Mining Company, LLC	KYG046369	860-5285	001 (SS-1)	7/1/2011	Iron	Daily	4	5.15	28.75%	1	37°12'29"	82°58'22"	Defeated Creek
Enterprise Mining Company, LLC	KYG046369	860-5285	001 (SS-1)	7/1/2011	Total Suspended Solids	Daily	70	72	2.86%	1	37°12'29"	82°58'22"	Defeated Creek
Enterprise Mining Company, LLC	KYG046369	860-5285	001 (SS-1)	12/1/2011	Iron	Daily	4	8.68	117.00%	1	37°12'29"	82°58'22"	Defeated Creek
Enterprise Mining Company, LLC	KYG046369	860-5285	001 (SS-1)	12/1/2011	Total Suspended Solids	Daily	70	272	288.57%	1	37°12'29"	82°58'22"	Defeated Creek
Enterprise Mining Company, LLC	KYG046369	860-5285	001 (SS-1)	12/31/2011	Iron	Monthly	3.5	8.68	148.00%	31	37°12'29"	82°58'22"	Defeated Creek
Enterprise Mining Company, LLC	KYG046369	860-5285	001 (SS-1)	12/31/2011	Total Suspended Solids	Monthly	35	272	677.14%	31	37°12'29"	82°58'22"	Defeated Creek
Enterprise Mining Company, LLC	KYG046369	860-5285	003 (SS-3)	12/1/2011	Total Suspended Solids	Daily	70	98	40.00%	1	37°12'31"	82°58'35"	Defeated Creek
Enterprise Mining Company, LLC	KYG046369	860-5285	003 (SS-3)	12/31/2011	Total Suspended Solids	Monthly	35	52	48.57%	31	37°12'31"	82°58'35"	Defeated Creek
Enterprise Mining Company, LLC	KYG046369	860-5285	004 (SS-4)	12/1/2011	Total Suspended Solids	Daily	70	133	90.00%	1	37°12'31"	82°58'29"	Defeated Creek
Enterprise Mining Company, LLC	KYG046369	860-5285	004 (SS-4)	12/31/2011	Total Suspended Solids	Monthly	35	69	97.14%	31	37°12'31"	82°58'29"	Defeated Creek
Enterprise Mining Company, LLC	KYG046396	860-8016	035	3/9/2012	Iron	Daily	4	5.6	40.00%	1	37-14-57	83-02-07	Sassafras Creek
Enterprise Mining Company, LLC	KYG046396	860-8016	YC-3	1/1/2012	Total Suspended Solids	Daily	70	101	44.29%	1	37-14-39	83-03-30	Brushy Fork
Enterprise Mining Company, LLC	KYG046396	860-8016	YC-3	1/31/2012	Total Suspended Solids	Monthly	35	39	11.43%	31	37-14-39	83-03-30	Brushy Fork

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Herndon Processing Company, LLC	WV0001848	O-0059-83	014	3/31/2010	Aluminum, Total (as Al)	Daily	0.14	0.35	150.00%	1	37° 31' 06"	81° 21' 56"	UNT/Gooney Otter Ck
Herndon Processing Company, LLC	WV0001848	O-0059-83	014	3/31/2010	Aluminum, Total (as Al)	Monthly	0.08	0.275	243.75%	31	37° 31' 06"	81° 21' 56"	UNT/Gooney Otter Ck
Herndon Processing Company, LLC	WV0001848	O-0059-83	014	4/30/2010	Aluminum, Total (as Al)	Daily	0.14	0.18	28.57%	1	37° 31' 06"	81° 21' 56"	UNT/Gooney Otter Ck
Herndon Processing Company, LLC	WV0001848	O-0059-83	014	4/30/2010	Aluminum, Total (as Al)	Monthly	0.08	0.175	118.75%	30	37° 31' 06"	81° 21' 56"	UNT/Gooney Otter Ck
Herndon Processing Company, LLC	WV0001848	O-0059-83	014	12/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.53	23.26%	31	37° 31' 06"	81° 21' 56"	UNT/Gooney Otter Ck
Herndon Processing Company, LLC	WV1016245	U-4009-92	002	7/31/2009	Aluminum, Total (as Al)	Daily	0.14	0.15	7.14%	1	37° 30' 33"	81° 19' 02"	Noseman Br
Herndon Processing Company, LLC	WV1016245	U-4009-92	002	7/31/2009	Aluminum, Total (as Al)	Monthly	0.08	0.09	12.50%	31	37° 30' 33"	81° 19' 02"	Noseman Br
Herndon Processing Company, LLC	WV1016245	U-4009-92	002	1/31/2010	Aluminum, Total (as Al)	Daily	0.14	0.16	14.29%	1	37° 30' 33"	81° 19' 02"	Noseman Br
Herndon Processing Company, LLC	WV1016245	U-4009-92	002	1/31/2010	Aluminum, Total (as Al)	Monthly	0.08	0.1055	31.88%	31	37° 30' 33"	81° 19' 02"	Noseman Br
Herndon Processing Company, LLC	WV1016245	U-4009-92	002	3/31/2010	Aluminum, Total (as Al)	Daily	0.14	0.23	64.29%	1	37° 30' 33"	81° 19' 02"	Noseman Br
Herndon Processing Company, LLC	WV1016245	U-4009-92	002	3/31/2010	Aluminum, Total (as Al)	Monthly	0.08	0.19	137.50%	31	37° 30' 33"	81° 19' 02"	Noseman Br
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	005	4/30/2007	Manganese	Monthly	2	2.85	42.50%	30	37° 53' 03"	81° 19' 16"	Lick Fk
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	006	3/31/2007	Manganese	Monthly	2	3	50.00%	31	37° 53' 01"	81° 19' 16"	Clear Fk
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	014	5/31/2008	Aluminum, Total (as Al)	Daily	1.3	1.32	1.54%	1	37° 53' 43"	81° 20' 11"	Buffalo Fk
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	014	5/31/2008	Aluminum, Total (as Al)	Monthly	0.75	1.32	76.00%	31	37° 53' 43"	81° 20' 11"	Buffalo Fk
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	014	3/31/2009	Aluminum, Total (as Al)	Monthly	0.75	1.11	48.00%	31	37° 53' 43"	81° 20' 11"	Buffalo Fk
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	014	3/31/2009	Manganese	Monthly	2	3.7	85.00%	31	37° 53' 43"	81° 20' 11"	Buffalo Fk
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	019	11/30/2008	Aluminum, Total (as Al)	Monthly	0.75	0.78	4.00%	30	37° 53' 48"	81° 19' 40"	Buffalo Fk
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	019	11/30/2008	Total Suspended Solids	Monthly	35	46	31.43%	30	37° 53' 48"	81° 19' 40"	Buffalo Fk
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	019	12/31/2008	Aluminum, Total (as Al)	Daily	1.3	1.57	20.77%	1	37° 53' 48"	81° 19' 40"	Buffalo Fk
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	019	12/31/2008	Aluminum, Total (as Al)	Monthly	0.75	0.87	16.00%	31	37° 53' 48"	81° 19' 40"	Buffalo Fk
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	019	12/31/2008	Total Suspended Solids	Daily	70	97	38.57%	1	37° 53' 48"	81° 19' 40"	Buffalo Fk
Island Fork Construction, LTD.* (Pioneer is operator)	WV1014595	S-3016-93	019	12/31/2008	Total Suspended Solids	Monthly	35	49	40.00%	31	37° 53' 48"	81° 19' 40"	Buffalo Fk
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	7/31/2008	Total Suspended Solids	Daily	70	79.00	12.86%	1	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	2/28/2010	Aluminum, Total (as Al)	Daily	0.14	0.31	120.71%	1	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	2/28/2010	Aluminum, Total (as Al)	Monthly	0.08	0.25	206.25%	28	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	3/31/2010	Aluminum, Total (as Al)	Daily	0.14	0.15	5.71%	1	37° 34' 37.00"	81° 34' 8.00"	Guyandotte

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	3/31/2010	Aluminum, Total (as Al)	Monthly	0.08	0.12	45.00%	31	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	4/30/2010	Aluminum, Total (as Al)	Daily	0.14	0.20	45.00%	1	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	4/30/2010	Aluminum, Total (as Al)	Monthly	0.08	0.20	153.75%	30	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	5/31/2010	Aluminum, Total (as Al)	Monthly	0.08	0.13	63.75%	31	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	12/31/2010	Iron	Monthly	1.42	1.47	3.52%	31	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	3/31/2011	Aluminum, Total (as Al)	Daily	0.75	1.20	60.00%	1	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	3/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.57	33.02%	31	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	3/28/2012	Aluminum, Total (as Al)	Daily	0.75	0.839	11.87%	1	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	3/28/2012	Iron	Daily	2.46	9.49	285.77%	1	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	3/31/2012	Aluminum, Total (as Al)	Monthly	0.43	0.453	5.35%	31	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	3/31/2012	Iron	Daily	2.46	8.59	249.19%	1	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	002	3/31/2012	Iron	Monthly	2.46	6.14	149.59%	31	37° 34' 37.00"	81° 34' 8.00"	Guyandotte
Kepler Processing Company, LLC	WV0061336	E-0045-00	003	2/28/2010	Aluminum, Total (as Al)	Daily	0.14	0.38	172.14%	1	37° 34' 53"	81° 34' 43"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	003	2/28/2010	Aluminum, Total (as Al)	Monthly	0.08	0.29	263.75%	28	37° 34' 53"	81° 34' 43"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	003	3/31/2010	Aluminum, Total (as Al)	Daily	0.14	0.16	14.29%	1	37° 34' 53"	81° 34' 43"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	003	3/31/2010	Aluminum, Total (as Al)	Monthly	0.08	0.10	18.75%	31	37° 34' 53"	81° 34' 43"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	003	4/30/2010	Aluminum, Total (as Al)	Daily	0.14	0.35	152.14%	1	37° 34' 53"	81° 34' 43"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	003	4/30/2010	Aluminum, Total (as Al)	Monthly	0.08	0.12	48.75%	30	37° 34' 53"	81° 34' 43"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	003	5/31/2010	Aluminum, Total (as Al)	Daily	0.14	0.14	0.71%	1	37° 34' 53"	81° 34' 43"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	003	5/31/2010	Aluminum, Total (as Al)	Monthly	0.08	0.12	46.25%	31	37° 34' 53"	81° 34' 43"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	003	6/30/2010	Aluminum, Total (as Al)	Daily	0.14	0.23	65.00%	1	37° 34' 53"	81° 34' 43"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	003	6/30/2010	Aluminum, Total (as Al)	Monthly	0.08	0.16	102.50%	30	37° 34' 53"	81° 34' 43"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	003	7/31/2011	pH	Daily	9	9.9	10.00%	1	37° 34' 53"	81° 34' 43"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	006	1/31/2011	Iron	Monthly	1.42	1.46	2.82%	31	37° 33' 16"	81° 34' 31"	Wolfpen Br
Kepler Processing Company, LLC	WV0061336	E-0045-00	010	4/30/2011	Total Suspended Solids	Monthly	35	36.5	4.29%	30	37° 34' 42"	81° 34' 05"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	010	6/30/2011	Total Suspended Solids	Monthly	35	42	20.00%	30	37° 34' 42"	81° 34' 05"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	010	12/1/2011	Aluminum, Total (as Al)	Daily	0.75	0.978	30.40%	1	37° 34' 42"	81° 34' 05"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	010	12/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.469	9.07%	31	37° 34' 42"	81° 34' 05"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	010	1/1/2012	Aluminum, Total (as Al)	Daily	0.75	1.1	46.67%	1	37° 34' 42"	81° 34' 05"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	010	1/31/2012	Aluminum, Total (as Al)	Monthly	0.43	0.77	79.07%	31	37° 34' 42"	81° 34' 05"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	010	2/1/2012	Aluminum, Total (as Al)	Daily	0.75	1.3	73.33%	1	37° 34' 42"	81° 34' 05"	Guyandotte Rv
Kepler Processing Company, LLC	WV0061336	E-0045-00	010	2/28/2012	Aluminum, Total (as Al)	Monthly	0.43	0.949	120.70%	28	37° 34' 42"	81° 34' 05"	Guyandotte Rv
Kepler Processing Company, LLC	WV1018493	O-4024-96	001	12/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.68	124.00%	1	37°34'14"	81°34'40"	Big Br
Kepler Processing Company, LLC	WV1018493	O-4024-96	001	1/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.44	3.26%	31	37°34'14"	81°34'40"	Big Br
Kepler Processing Company, LLC	WV1018493	O-4024-96	001	1/31/2011	Manganese	Monthly	2	2.09	4.50%	31	37°34'14"	81°34'40"	Big Br
Kepler Processing Company, LLC	WV1018493	E-45	001	12/1/2011	Manganese	Daily	3.47	3.52	1.44%	1	37°34'14"	81°34'40"	Big Br
Kingston Resources, Inc.	WV0028452	O-3019-93	003	1/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.9	153.33%	1	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	1/31/2008	Aluminum, Total (as Al)	Monthly	0.43	1.045	143.02%	31	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	8/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.54	25.58%	31	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.5167	20.16%	31	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	2/28/2009	Aluminum, Total (as Al)	Daily	0.75	0.94	25.33%	1	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	2/28/2009	Aluminum, Total (as Al)	Monthly	0.43	0.61	41.86%	28	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	3/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.505	17.44%	31	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	4/30/2009	Aluminum, Total (as Al)	Monthly	0.43	0.53	23.26%	30	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	6/30/2009	Aluminum, Total (as Al)	Daily	0.75	0.86	14.67%	1	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	6/30/2009	Aluminum, Total (as Al)	Monthly	0.43	0.498	15.81%	30	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	8/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.48	10.70%	31	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	9/30/2009	Aluminum, Total (as Al)	Daily	0.75	1.12	49.33%	1	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	9/30/2009	Aluminum, Total (as Al)	Monthly	0.43	0.466	8.37%	30	37° 58' 07"	81° 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	12/31/2009	Aluminum, Total (as Al)	Daily	0.75	0.83	10.67%	1	37° 58' 07"	81° 18' 31"	Milburn Ck

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Kingston Resources, Inc.	WV0028452	O-3019-93	003	12/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.52	21.86%	31	37 58' 07"	81 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	4/30/2011	Aluminum, Total (as Al)	Daily	0.75	0.84	12.00%	1	37 58' 07"	81 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	5/31/2011	Aluminum, Total (as Al)	Daily	0.75	0.82	9.33%	1	37 58' 07"	81 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	003	5/31/2011	Aluminum, Total (as Al)	Monthly	0.43	0.48	10.86%	31	37 58' 07"	81 18' 31"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	004	2/28/2009	Aluminum, Total (as Al)	Monthly	0.43	0.48	11.63%	28	37° 58' 20"	81° 18' 21"	Milburn Creek
Kingston Resources, Inc.	WV0028452	O-3019-93	004	8/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.62	44.19%	31	37° 58' 20"	81° 18' 21"	Milburn Creek
Kingston Resources, Inc.	WV0028452	O-3019-93	004	3/31/2010	Aluminum, Total (as Al)	Daily	0.75	0.81	8.00%	1	37° 58' 20"	81° 18' 21"	Milburn Creek
Kingston Resources, Inc.	WV0028452	O-3019-93	004	3/31/2010	Aluminum, Total (as Al)	Monthly	0.43	0.46	5.81%	31	37° 58' 20"	81° 18' 21"	Milburn Creek
Kingston Resources, Inc.	WV0028452	O-3011-98	004	1/31/2012	Aluminum, Total (as Al)	Monthly	0.43	0.44	1.16%	31	37° 58' 20"	81° 18' 21"	Milburn Creek
Kingston Resources, Inc.	WV0028452	o-3011-98	004	3/28/2012	Aluminum	Daily	0.75	1.48	97.33%	1	37° 58' 20"	81° 18' 21"	Milburn Creek
Kingston Resources, Inc.	WV0028452	o-3011-98	004	3/31/2012	Aluminum	Monthly	0.43	0.96	123.26%	31	37° 58' 20"	81° 18' 21"	Milburn Creek
Kingston Resources, Inc.	WV0028452	O-3019-93	006	2/28/2009	Aluminum, Total (as Al)	Daily	0.75	0.85	13.33%	1	37 58' 33"	81 18' 06"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	006	2/28/2009	Aluminum, Total (as Al)	Monthly	0.43	0.475	10.47%	28	37 58' 33"	81 18' 06"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	013	12/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.02	36.00%	1	37 57' 51"	81 18' 50"	Milburn Ck
Kingston Resources, Inc.	WV0028452	O-3019-93	013	12/31/2008	Aluminum, Total (as Al)	Monthly	0.43	1.02	137.21%	31	37 57' 51"	81 18' 50"	Milburn Ck
Kingwood Mining Company, LLC	WV0060259	D-0113-82	001	12/30/2007	Aluminum, Total (as Al)	Daily	0.75	1.52	102.67%	1	39° 24' 41"	79° 47' 14"	Birds Ck
Kingwood Mining Company, LLC	WV0060259	D-0113-82	001	12/31/2007	Aluminum, Total (as Al)	Monthly	0.43	0.76	76.74%	31	39° 24' 41"	79° 47' 14"	Birds Ck
Kingwood Mining Company, LLC	WV0060259	D-0113-82	001	2/29/2008	Aluminum, Total (as Al)	Daily	0.75	1.08	44.00%	1	39° 24' 41"	79° 47' 14"	Birds Ck
Kingwood Mining Company, LLC	WV0060259	D-0113-82	001	2/29/2008	Aluminum, Total (as Al)	Monthly	0.43	0.695	61.63%	28	39° 24' 41"	79° 47' 14"	Birds Ck
Kingwood Mining Company, LLC	WV0060259	D-0113-82	001	3/31/2008	Aluminum, Total (as Al)	Daily	0.75	3.05	306.67%	1	39° 24' 41"	79° 47' 14"	Birds Ck
Kingwood Mining Company, LLC	WV0060259	D-0113-82	001	3/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.44	2.33%	31	39° 24' 41"	79° 47' 14"	Birds Ck
Kingwood Mining Company, LLC	WV0060259	D-0113-82	001	12/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.35	80.00%	1	39° 24' 41"	79° 47' 14"	Birds Ck
Kingwood Mining Company, LLC	WV0060259	D-0113-82	001	5/31/2011	Aluminum, Total (as Al)	Daily	0.75	4	433.33%	1	39° 24' 41"	79° 47' 14"	Birds Ck
Kingwood Mining Company, LLC	WV0060259	D-0113-82	001	5/31/2011	Aluminum, Total (as Al)	Monthly	0.43	2.03	372.09%	31	39° 24' 41"	79° 47' 14"	Birds Ck
Kingwood Mining Company, LLC	WV0063576	R-0673-00	003	11/30/2009	Aluminum, Total (as Al)	Daily	0.75	0.8	6.67%	1	39° 34' 30"	79° 38' 01"	Martin Ck
Kingwood Mining Company, LLC	WV0063576	R-0673-00	003	11/30/2009	Aluminum, Total (as Al)	Monthly	0.43	0.46	6.98%	30	39° 34' 30"	79° 38' 01"	Martin Ck
Kingwood Mining Company, LLC	WV0063576	R-0673-00	003	11/30/2009	Aluminum, Total (as Al)	Monthly	0.43	0.52	20.93%	30	39° 34' 30"	79° 38' 01"	Martin Ck
Kingwood Mining Company, LLC	WV0063576	R-0673-00	003	11/30/2009	Aluminum, Total (as Al)	Monthly	0.43	0.79	83.72%	30	39° 34' 30"	79° 38' 01"	Martin Ck
Kingwood Mining Company, LLC	WV0063576	R-0673-00	003	2/28/2010	Aluminum, Total (as Al)	Daily	0.75	1.57	109.33%	1	39° 34' 30"	79° 38' 01"	Martin Ck
Kingwood Mining Company, LLC	WV0063576	R-0673-00	003	5/31/2011	Aluminum, Total (as Al)	Daily	0.75	0.76	1.33%	1	39° 34' 30"	79° 38' 01"	Martin Ck
Kingwood Mining Company, LLC	WV0095583	U-1007-98	004	5/31/2009	Aluminum, Total (as Al)	Daily	0.75	1.56	108.00%	1	39° 22' 33"	79° 48' 01"	Raccoon Ck
Kingwood Mining Company, LLC	WV0095583	U-1007-98	402	8/31/2008	Coliform, Fecal	Daily	400	900	125.00%	1	39° 20' 44"	79° 48' 48"	Left Fk
Kingwood Mining Company, LLC	WV0095583	U-1007-98	402	12/31/2008	Chlorine, Total Residual	Daily	28	350	1150.00%	1	39° 20' 44"	79° 48' 48"	Left Fk
Kingwood Mining Company, LLC	WV0095583	U-1007-98	402	12/31/2008	Coliform, Fecal	Daily	400	5800	1350.00%	1	39° 20' 44"	79° 48' 48"	Left Fk
Kingwood Mining Company, LLC	WV0095583	U-1007-98	402	2/28/2009	Chlorine, Total Residual	Daily	28	260	828.57%	1	39° 20' 44"	79° 48' 48"	Left Fk
Kingwood Mining Company, LLC	WV0095583	U-1007-98	403	11/30/2008	Chlorine, Total Residual	Daily	0.028	0.04	42.86%	1	39° 22' 37"	79° 47' 59"	York Rn
Kingwood Mining Company, LLC	WV0095583	U-1007-98	403	11/30/2008	Coliform, Fecal	Daily	400	2800	600.00%	1	39° 22' 37"	79° 47' 59"	York Rn
Kingwood Mining Company, LLC	WV0095583	U-1007-98	403	12/31/2008	Chlorine, Total Residual	Daily	28	360	1185.71%	1	39° 22' 37"	79° 47' 59"	York Rn
Kingwood Mining Company, LLC	WV0095583	U-1007-98	403	12/31/2008	Coliform, Fecal	Daily	400	2800	600.00%	1	39° 22' 37"	79° 47' 59"	York Rn
Kingwood Mining Company, LLC	WV0095583		403	12/31/2008	Flow.in Conduit or thru plant	Daily	0.0006	0.00095	58.33%	1	39° 22' 37"	79° 47' 59"	York Rn
Kingwood Mining Company, LLC	WV0095583	U-1007-98	404	5/31/2008	U BOD	Daily	42.42	117	175.81%	1	39° 22' 11"	79° 49' 34"	Little Raccoon Rn
Kingwood Mining Company, LLC	WV1017403	O-1008-98	008	12/31/2008	Aluminum, Total (as Al)	Daily	0.75	0.99	32.00%	1	39°22'39"	79°47'59"	Raccoon Ck
Kingwood Mining Company, LLC	WV1017403	O-1008-98	008	5/31/2009	Aluminum, Total (as Al)	Daily	0.75	1.11	48.00%	1	39°22'39"	79°47'59"	Raccoon Ck
Kingwood Mining Company, LLC	WV1017403	O-1008-98	008	5/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.56	30.23%	31	39°22'39"	79°47'59"	Raccoon Ck
Laurel Creek Company, Inc.	WV1023195	O-5032-90	002	4/30/2009	Iron	Daily	5.26	8.1	53.99%	1	38° 00' 38"	80° 03' 23"	Guyandotte Rv
Laurel Creek Company, Inc.	WV1023195	O-5032-90	002	4/30/2009	Iron	Monthly	3	5.4433	81.44%	30	38° 00' 38"	80° 03' 23"	Guyandotte Rv
Litwar Processing Company, LLC	WV0041149	O-0117-83	006	2/28/2009	pH	Daily	9	9.2	2.22%	1	37 28' 55"	81 47' 31"	Lick Branch
Litwar Processing Company, LLC	WV0046141	P-0687-00	002	4/30/2011	Total Suspended Solids	Monthly	35	38.00	8.57%	30	37 29' 12"	81 50' 39"	War Br

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Litwar Processing Company, LLC	WV0046141	P-0687-00	003	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.47	9.30%	31	37 29' 14"	81 50' 40"	War Br
Litwar Processing Company, LLC	WV0046141	P-0687-00	003	1/31/2009	Total Suspended Solids	Monthly	35	64	82.86%	31	37 29' 14"	81 50' 40"	War Br
Litwar Processing Company, LLC	WV0046141	P-0687-00	005	8/31/2008	pH	Daily	9	9.30	3.33%	1	37 29' 54"	81 50' 09"	War Br
Litwar Processing Company, LLC	WV0046141	P-0687-00	005	1/31/2009	Aluminum, Total (as Al)	Daily	0.14	0.20	40.71%	1	37 29' 54"	81 50' 09"	War Br
Litwar Processing Company, LLC	WV0046141	P-0687-00	005	1/31/2009	Aluminum, Total (as Al)	Monthly	0.08	0.20	146.25%	31	37 29' 54"	81 50' 09"	War Br
Litwar Processing Company, LLC	WV0046141	P-0687-00	005	1/31/2009	Manganese	Monthly	2	2.59	29.50%	31	37 29' 54"	81 50' 09"	War Br
Litwar Processing Company, LLC	WV0046141	P-0687-00	013	12/31/2008	Aluminum, Total (as Al)	Daily	0.14	0.29	105.00%	1	37 29' 15"	81 51' 22"	Adkin Br
Litwar Processing Company, LLC	WV0046141	P-0687-00	013	12/31/2008	Aluminum, Total (as Al)	Monthly	0.08	0.22	175.00%	31	37 29' 15"	81 51' 22"	Adkin Br
Litwar Processing Company, LLC	WV0046141	P-0687-00	013	1/31/2009	Aluminum, Total (as Al)	Daily	0.14	0.32	129.29%	1	37 29' 15"	81 51' 22"	Adkin Br
Litwar Processing Company, LLC	WV0046141	P-0687-00	013	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.453	5.35%	31	37 29' 15"	81 51' 22"	Adkin Br
Litwar Processing Company, LLC	WV0046141	P-0687-00	013	1/31/2009	Aluminum, Total (as Al)	Monthly	0.08	0.29	258.75%	31	37 29' 15"	81 51' 22"	Adkin Br
Litwar Processing Company, LLC	WV1008633		002	6/30/2008	Aluminum, Total (as Al)	Daily	0.14	0.494	252.86%	1	37° 24' 48.0000"	81° 42' 15.0000"	Meathouse Branch of Clear Fork
Litwar Processing Company, LLC	WV1008633		002	6/30/2008	Aluminum, Total (as Al)	Monthly	0.08	0.252	215.00%	30	37° 24' 48.0000"	81° 42' 15.0000"	Meathouse Branch of Clear Fork
Paramont Coal Company Virginia, LLC	VA0081840	1101840	002	2/12/2012	Settleable Solids	Daily	0.5	30	5900.00%	1	37-02-07	82-11-31	Cane Creek
Paramont Coal Company Virginia, LLC	VA0081840	1101840	6216 / 004	12/15/2011	Total Suspended Solids	Daily	70	72.0	2.86%	1	37° 2' 27.66" W	82° 11' 5.10" N	Cane Creek
Paramont Coal Company Virginia, LLC	VA0081840	1101840	6216 / 004	12/31/2011	Iron	Monthly	3.0	3.6	20.00%	31	37° 2' 27.66" N	82° 11' 5.10" N	Cane Creek
Paramont Coal Company Virginia, LLC	VA0081840	1101840	6216 / 004	12/31/2011	Total Suspended Solids	Monthly	35	46.6	33.14%	31	37° 2' 27.66" W	82° 11' 5.10" N	Cane Creek
Paramont Coal Company Virginia, LLC	VA0081846	1101846	2578 / 002	6/16/2008	Total Suspended Solids	Daily	70	79.0	12.86%	1	37° 12' 17.76" W	82° 9' 18.32" N	War Fork
Paramont Coal Company Virginia, LLC	VA0081846	1101846	2578 / 002	6/30/2008	Iron	Monthly	3.0	4.0	33.33%	30	37° 12' 17.76" W	82° 9' 18.32" N	War Fork
Paramont Coal Company Virginia, LLC	VA0081846	1101846	2578 / 002	6/30/2008	Total Suspended Solids	Monthly	35	79.0	125.71%	30	37° 12' 17.76" W	82° 9' 18.32" N	War Fork
Paramont Coal Company Virginia, LLC	VA0081846	1101846	2578 / 002	9/10/2008	Total Suspended Solids	Daily	70	80.0	14.29%	1	37° 12' 17.76" W	82° 9' 18.32" N	War Fork
Paramont Coal Company Virginia, LLC	VA0081846	1101846	2578 / 002	9/30/2008	Total Suspended Solids	Monthly	35	42.3	20.95%	30	37° 12' 17.76" W	82° 9' 18.32" N	War Fork
Paramont Coal Company Virginia, LLC	VA0081849	1101849	6329 / 005	6/30/2007	Total Suspended Solids	Monthly	35	43.3	23.81%	30	37° 7' 3.58" W	82° 34' 12.71" N	McFall Fork
Paramont Coal Company Virginia, LLC	VA0081849	1101849	6329 / 005	2/28/2009	Total Suspended Solids	Monthly	35	37.0	5.71%	28	37° 7' 3.58" W	82° 34' 12.71" N	McFall Fork
Paramont Coal Company Virginia, LLC	VA0081849	1101849	6330 / 006	5/31/2007	Iron	Monthly	3.0	3.2	7.78%	31	37° 7' 10.59" W	82° 34' 30.54" N	Meade Fork
Paramont Coal Company Virginia, LLC	VA0081850	1201850	003	3/1/2012	Total Suspended Solids	Daily	70	88	26%	1	37-07-53	82-31-52	Georges Fork
Paramont Coal Company Virginia, LLC	VA0081850	1201850	2883 / 002	10/31/2008	Iron	Monthly	3.0	4.1	35.00%	31	37° 8' 5.41" W	82° 31' 46.19" N	Georges Fork
Paramont Coal Company Virginia, LLC	VA0081856	1201856	001	9/18/2012	Total Suspended Solids	Daily	70	101	44.29%	1	37° 05' 47" W	82° 30' 34" N	Lick Fork
Paramont Coal Company Virginia, LLC	VA0081856	1201856	008	9/18/2012	Total Suspended Solids	Daily	70	183	161.43%	1	37° 06' 29" W	82° 31' 24" N	Lick Fork

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Paramont Coal Company Virginia, LLC	VA0081856	1201856	008	9/18/2012	Iron	Daily	6	8.4	40.00%	1	37° 06' 29" W	82° 31' 24" N	Lick Fork
Paramont Coal Company Virginia, LLC	VA0081871	1601871	4146 / A	8/31/2007	Manganese	Monthly	2.0	3.5	75.00%	31	36° 55' 16.67" W	82° 23' 40.46" N	Hall Hollow
Paramont Coal Company Virginia, LLC	VA0081871	1601871	4147 / B	10/31/2010	Manganese	Monthly	2.0	2.3	14.00%	31	36° 54' 52.76" W	82° 23' 31.87" N	Dry Fork
Paramont Coal Company Virginia, LLC	VA0081871	1601871	5570 / MD-1	5/25/2007	Total Suspended Solids	Daily	70	143.0	104.29%	1	36° 55' 1.32" W	82° 22' 38.22" N	Bull Run
Paramont Coal Company Virginia, LLC	VA0081871	1601871	5570 / MD-1	5/31/2007	Total Suspended Solids	Monthly	35	72.5	107.14%	31	36° 55' 1.32" W	82° 22' 38.22" N	Bull Run
Paramont Coal Company Virginia, LLC	VA0081871	1601871	F	5/14/2012	Iron	Daily	6.0	7.3	21.67%	1	36° 54' 39" W	82° 22' 34" N	Bull Run
Paramont Coal Company Virginia, LLC	VA0081871	1601871	F	5/14/2012	Total Suspended Solids	Daily	70	147	110.00%	1	36° 54' 39" W	82° 22' 34" N	Bull Run
Paramont Coal Company Virginia, LLC	VA0081871	1601871	F	5/31/2012	Total Suspended Solids	Monthly	35	39	11.43%	31	36° 54' 39" W	82° 22' 34" N	Bull Run
Paramont Coal Company Virginia, LLC	VA0081871	1601871	F	12/10/2012	Total Suspended Solids	Daily	70	195	178.57%	1	36° 54' 39" W	82° 22' 34" N	Bull Run
Paramont Coal Company Virginia, LLC	VA0081871	1601871	F	12/10/2012	Iron	Daily	6.0	8.5	41.67%	1	36° 54' 39" W	82° 22' 34" N	Bull Run
Paramont Coal Company Virginia, LLC	VA0081871	1601871	F	12/10/2012	Total Suspended Solids	Monthly	35	47.4	35.43%	31	36° 54' 39" W	82° 22' 34" N	Bull Run
Paramont Coal Company Virginia, LLC	VA0081871	1601871	H	3/1/2012	Total Suspended Solids	Daily	70	103	47%	1	36-55-44	82-23-03	Bull Run
Paramont Coal Company Virginia, LLC	VA0081871	1601871	H	12/10/2012	Total Suspended Solids	Daily	70	77	10.00%	1	36° 55' 44" W	82° 23' 03" N	Bull Run
Paramont Coal Company Virginia, LLC	VA0081873	1301873	2784829 / 008	8/31/2010	Manganese	Monthly	2.0	3.7	85.00%	31	36° 58' 3.95" W	82° 27' 25.96" N	Toms Creek
Paramont Coal Company Virginia, LLC	VA0081873	1301873	2784830 / 009	5/31/2007	Total Suspended Solids	Monthly	35	42.0	20.00%	31	36° 58' 6.03" W	82° 27' 34.04" N	Toms Creek
Paramont Coal Company Virginia, LLC	VA0081886	1201886	2670095 / 002	5/31/2007	Iron	Monthly	3.0	4.2	40.00%	31	37° 0'53.82"	82°40'20.01"	Bee Branch
Paramont Coal Company Virginia, LLC	VA0081886	1201886	2670095 / 002	3/31/2008	Iron	Monthly	3.0	3.6	20.00%	31	37° 0'53.82"	82°40'20.01"	Bee Branch
Paramont Coal Company Virginia, LLC	VA0081886	1201886	2670095 / 002	12/31/2008	Iron	Monthly	3.0	3.3	9.17%	31	37° 0'53.82"	82°40'20.01"	Bee Branch
Paramont Coal Company Virginia, LLC	VA0081886	1201886	2670095 / 002	1/31/2009	Iron	Monthly	3.0	3.2	5.83%	31	37° 0'53.82"	82°40'20.01"	Bee Branch
Paramont Coal Company Virginia, LLC	VA0081891	1601891	3970246 / 021	3/31/2009	Iron	Monthly	3.0	3.1	1.67%	31	36° 55' 50.43" W	82° 20' 30.83" N	Meade Creek
Paramont Coal Company Virginia, LLC	VA0081891	1601891	3970246 / 021	4/30/2009	Iron	Monthly	3.0	3.7	23.33%	30	36° 55' 50.43" W	82° 20' 30.83" N	Meade Creek
Paramont Coal Company Virginia, LLC	VA0081897	1101897	2225 / 002	1/29/2010	Total Suspended Solids	Daily	70	83.0	18.57%	1	37° 2' 45.28" W	82° 26' 2.47" N	Caney Creek
Paramont Coal Company Virginia, LLC	VA0081897	1101897	2225 / 002	1/31/2010	Total Suspended Solids	Monthly	35	59.0	68.57%	31	37° 2' 45.28" W	82° 26' 2.47" N	Caney Creek
Paramont Coal Company Virginia, LLC	VA0081897	1101897	6468 / 004	7/31/2010	Iron	Monthly	3.0	3.5	15.00%	31	37° 2' 17.85" W	82° 26' 4.91" N	Caney Creek
Paramont Coal Company Virginia, LLC	VA0081897	1101897	6468 / 004	7/31/2011	Total Suspended Solids	Monthly	35	48.0	37.14%	31	37° 2' 17.85" W	82° 26' 4.91" N	Caney Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Paramont Coal Company Virginia, LLC	VA0081897	1101897	6468 / 004	6/8/2012	Total Suspended Solids	Daily	70	77	10.00%	1	37° 02' 18" W	82° 26' 05" N	Caney Creek
Paramont Coal Company Virginia, LLC	VA0081897	1101897	6468 / 004	6/8/2012	Total Suspended Solids	Monthly	35	56	60.00%	30	37° 02' 18" W	82° 26' 05" N	Caney Creek
Paramont Coal Company Virginia, LLC	VA0081901	1101901	1512 / 015	9/30/2007	Manganese	Monthly	2.0	2.2	12.00%	30	37° 8' 13.74" W	82° 34' 49.83" N	Mill Creek
Paramont Coal Company Virginia, LLC	VA0081903	1101903	026	2/7/13	Ph	Daily	6.0	4.9	18%	1	37° 15' 44" W	82° 11' 26" N	Belcher Branch
Paramont Coal Company Virginia, LLC	VA0081903	1101903	6916 / 021	11/1/2009	pH	Daily	6-9	5.6	-6.67%	1	37° 15' 47.38" W	82° 11' 35.56" N	Belcher Branch
Paramont Coal Company Virginia, LLC	VA0081903	1101903	6916 / 021	11/30/2009	Manganese	Monthly	2.0	2.2	10.00%	30	37° 15' 47.38" W	82° 11' 35.56" N	Belcher Branch
Paramont Coal Company Virginia, LLC	VA0081903	1101903	6916 / 021	2/28/2010	Manganese	Monthly	2.0	2.7	36.67%	28	37° 15' 47.38" W	82° 11' 35.56" N	Belcher Branch
Paramont Coal Company Virginia, LLC	VA0081903	1101903	6916 / 021	3/31/2010	Manganese	Monthly	2.0	2.6	30.00%	31	37° 15' 47.38" W	82° 11' 35.56" N	Belcher Branch
Paramont Coal Company Virginia, LLC	VA0081903	1101903	6916 / 021	1/13/2011	Manganese	Daily	4.0	4.4	10.00%	1	37° 15' 47.38" W	82° 11' 35.56" N	Belcher Branch
Paramont Coal Company Virginia, LLC	VA0081903	1101903	6916 / 021	1/22/2011	Manganese	Daily	4.0	4.3	7.50%	1	37° 15' 47.38" W	82° 11' 35.56" N	Belcher Branch
Paramont Coal Company Virginia, LLC	VA0081903	1101903	6916 / 021	1/24/2011	Manganese	Daily	4.0	4.1	2.50%	1	37° 15' 47.38" W	82° 11' 35.56" N	Belcher Branch
Paramont Coal Company Virginia, LLC	VA0081903	1101903	6916 / 021	1/31/2011	Manganese	Monthly	2.0	3.6	79.38%	31	37° 15' 47.38" W	82° 11' 35.56" N	Belcher Branch
Paramont Coal Company Virginia, LLC	VA0081903	1101903	6916 / 021	2/28/2011	Manganese	Monthly	2.0	2.4	20.00%	28	37° 15' 47.38" W	82° 11' 35.56" N	Belcher Branch
Paramont Coal Company Virginia, LLC	VA0081903	1101903	6916 / 021	5/31/2011	Manganese	Monthly	2.0	2.1	5.00%	31	37° 15' 47.38" W	82° 11' 35.56" N	Belcher Branch
Paramont Coal Company Virginia, LLC	VA0081904	1201904	5388 / DE-WAT2	12/31/2008	Iron	Monthly	3.0	3.1	3.33%	31	36° 57' 43.68" W	82° 14' 54.56" N	Hamlin Branch
Paramont Coal Company Virginia, LLC	VA0081955	1101955	6259 / 007	10/31/2008	Total Suspended Solids	Monthly	35	46.5	32.86%	31	37° 3' 12.88" W	82° 9' 52.95" N	Left Fork
Paramont Coal Company Virginia, LLC	VA0081955	1101955	6267 / 004	3/31/2007	Total Suspended Solids	Monthly	35	50.0	42.86%	31	37° 4' 29.34" W	82° 9' 21.91" N	Cane Creek
Paramont Coal Company Virginia, LLC	VA0081964	1101964	3770060 / 002	2/28/2010	Manganese	Monthly	2.0	3.3	65.00%	28	37° 3' 33.33" W	82° 32' 58.35" N	Birchfield Creek
Paramont Coal Company Virginia, LLC	VA0081964	1101964	3770060 / 002	4/22/2011	Manganese	Daily	4.0	4.1	2.50%	1	37° 3' 33.33" W	82° 32' 58.35" N	Birchfield Creek
Paramont Coal Company Virginia, LLC	VA0081964	1101964	3770060 / 002	4/30/2011	Manganese	Monthly	2.0	3.5	75.00%	30	37° 3' 33.33" W	82° 32' 58.35" N	Birchfield Creek
Paramont Coal Company Virginia, LLC	VA0081964	1101964	3770060 / 002	5/31/2011	Manganese	Monthly	2.0	2.1	5.83%	31	37° 3' 33.33" W	82° 32' 58.35" N	Birchfield Creek
Paramont Coal Company Virginia, LLC	VA0081964	1101964	3770060 / 002	3/1/2012	Manganese	Daily	4.0	4.2	5%	1	37° 3' 33.33" W	82° 32' 58.35" N	Birchfield Creek
Paramont Coal Company Virginia, LLC	VA0081984	1201984	6501 / 001	3/14/2007	Total Suspended Solids	Daily	70	90.0	28.57%	1	36° 58' 4.38" W	82° 13' 54.34" N	Stonecoal Creek
Paramont Coal Company Virginia, LLC	VA0081984	1201984	6501 / 001	3/31/2007	Total Suspended Solids	Monthly	35	36.3	3.57%	31	36° 58' 4.38" W	82° 13' 54.34" N	Stonecoal Creek
Paramont Coal Company Virginia, LLC	VA0081984	1201984	6501 / 001	4/30/2007	Iron	Monthly	3.0	4.5	50.00%	30	36° 58' 4.38" W	82° 13' 54.34" N	Stonecoal Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Paramont Coal Company Virginia, LLC	VA0081984	1201984	6501 / 001	4/30/2007	Total Suspended Solids	Monthly	35	68.0	94.29%	30	36° 58' 4.38" W	82° 13' 54.34" N	Stonecoal Creek
Paramont Coal Company Virginia, LLC	VA0081984	1201984	6501 / 001	3/31/2011	Iron	Monthly	3.0	3.3	10.00%	31	36° 58' 4.38" W	82° 13' 54.34" N	Stonecoal Creek
Paramont Coal Company Virginia, LLC	VA0081993	1101993	003	1/31/2012	pH	Daily	6	4.9	-18.33%	1	37-13-45	82-13-53	Butcherknife Fork
Paramont Coal Company Virginia, LLC	VA0081993	1101993	6583 / 001	3/31/2010	Total Suspended Solids	Monthly	35	37.5	7.14%	31	37° 13' 54.52" W	82° 12' 54.78" N	Spruce Pine Branch
Paramont Coal Company Virginia, LLC	VA0081996	1101996	6644 / 006	4/30/2007	Iron	Monthly	3.0	3.1	3.33%	30	37° 0' 50.27" W	82° 28' 42.48" N	Trace Fork
Paramont Coal Company Virginia, LLC	VA0082006	1202006	6869 / 001	11/30/2011	Total Suspended Solids	Monthly	35	43.0	22.86%	30	37° 2' 37.52" W	82° 15' 36.57" N	Rush Branch
Paramont Coal Company Virginia, LLC	VA0082008	1102008	6925 / 001	10/31/2009	Iron	Monthly	3.0	5.0	66.67%	31	37° 6' 1.56" W	82° 37' 47.42" N	South Fork Pound River
Paramont Coal Company Virginia, LLC	VA0082008	1102008	6925 / 001	10/31/2009	Total Suspended Solids	Monthly	35	47.3	35.24%	31	37° 6' 1.56" W	82° 37' 47.42" N	South Fork Pound River
Paramont Coal Company Virginia, LLC	VA0082008	1102008	6925 / 001	11/30/2009	Total Suspended Solids	Monthly	35	54.0	54.29%	30	37° 6' 1.56" W	82° 37' 47.42" N	South Fork Pound River
Paramont Coal Company Virginia, LLC	VA0082008	1102008	6925 / 001	1/5/2010	Total Suspended Solids	Daily	70	104.0	48.57%	1	37° 6' 1.56" W	82° 37' 47.42" N	South Fork Pound River
Paramont Coal Company Virginia, LLC	VA0082008	1102008	6925 / 001	1/31/2010	Total Suspended Solids	Monthly	35	42.0	20.00%	31	37° 6' 1.56" W	82° 37' 47.42" N	South Fork Pound River
Paramont Coal Company Virginia, LLC	VA0082009	1202009	6969 / 001	7/31/2011	Total Suspended Solids	Monthly	35	39.7	13.33%	31	37° 5' 46.67" W	82° 23' 21.72" N	Caney Creek
Paramont Coal Company Virginia, LLC	VA0082009	1202009	6969 / 001	3/1/2012	Total Suspended Solids	Daily	70	121	72.86%	1	37° 5' 46.67" W	82° 23' 21.72" N	Caney Creek
Paramont Coal Company Virginia, LLC	VA0082009	1202009	6969 / 001	3/31/2012	Total Suspended Solids	Monthly	35	39	11.43%	31	37° 5' 46.67" W	82° 23' 21.72" N	Caney Creek
Paramont Coal Company Virginia, LLC	VA0082009	1202009	6969 / 001	3/5/13	Total Suspended Solids	Daily	70.0	141	101%	1	37° 05' 47" W	82° 23' 22" N	Caney Creek
Paramont Coal Company Virginia, LLC	VA0082009	1202009	6970 / 002	7/31/2011	Total Suspended Solids	Monthly	35	66.7	90.48%	31	37° 5' 49.07" W	82° 23' 15.31" N	Caney Creek
Paramont Coal Company Virginia, LLC	VA0082009	1202009	6970 / 002	1/31/2012	Total Suspended Solids	Monthly	35	40	14.29%	31	37° 5' 49.07" W	82° 23' 15.31" N	Caney Creek
Paramont Coal Company Virginia, LLC	VA0082020	1202020	7004 / 001	1/12/2011	Total Suspended Solids	Daily	70	124.0	77.14%	1	37° 11' 2.30" W	82° 23' 26.24" N	Cranes Nest River
Paramont Coal Company Virginia, LLC	VA0082020	1202020	7004 / 001	1/31/2011	Total Suspended Solids	Monthly	35	40.5	15.71%	31	37° 11' 2.30" W	82° 23' 26.24" N	Cranes Nest River
Paramont Coal Company Virginia, LLC	VA0082034	1102034	3205 / 003	4/2/2009	pH	Daily	6-9	9.1	1.11%	1	37° 5' 41.17" W	82° 30' 11.76" N	Lick Fork
Paramont Coal Company Virginia, LLC	VA0092576		001	3/1/2013	Total Suspended Solids	Monthly	30	37	23%	31	37° 05' 47" W	82° 23' 21" N	Caney Creek
Pioneer Fuel Corporation	WV1012231	S-4015-95	017	6/30/2011	Manganese	Daily	3.47	6.23	79.54%	1	37° 43' 53" W	81° 38' 18" N	Longlick Br
Pioneer Fuel Corporation	WV1012231	S-4015-95	017	6/30/2011	Manganese	Monthly	2	2.4925	24.63%	30	37° 43' 53" W	81° 38' 18" N	Longlick Br
Pioneer Fuel Corporation	WV1021699	O-3021-03	001	8/1/2011	Aluminum, Total (as Al)	Daily	0.45	1.41	213.33%	1	37° 54' 29" W	81° 15' 42" N	Paint Creek
Pioneer Fuel Corporation	WV1021699	O-3021-03	001	8/31/2011	Aluminum, Total (as Al)	Monthly	0.26	0.96	269.23%	31	37° 54' 29" W	81° 15' 42" N	Paint Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	9/30/2008	Iron	Daily	0.88	1.37	55.68%	1	37° 37' 15.0000" W	81° 56' 42.0000" N	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	9/30/2008	Iron	Monthly	0.51	1.37	168.63%	30	37° 37' 15.0000" W	81° 56' 42.0000" N	Bens Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Premium Energy, LLC	WV1018914	S-4004-00	047	9/30/2008	Total Suspended Solids	Monthly	35	63.00	80.00%	30	37° 37' 15.0000"	81° 56' 42.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	1/31/2009	Aluminum, Total (as Al)	Daily	0.75	0.89	18.67%	1	37° 37' 15.0000"	81° 56' 42.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.49	12.79%	31	37° 37' 15.0000"	81° 56' 42.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	1/31/2009	Iron	Daily	0.88	0.90	2.27%	1	37° 37' 15.0000"	81° 56' 42.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	1/31/2009	Iron	Monthly	0.51	0.58	12.75%	31	37° 37' 15.0000"	81° 56' 42.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	3/1/2012	Aluminum	Monthly	0.43	0.503	16.98%	31	37° 37' 15.0000"	81° 56' 42.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	3/1/2012	Iron	Monthly	0.51	0.78	52.94%	31	37° 37' 15.0000"	81° 56' 42.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	3/1/2012	Iron	Daily	0.88	0.99	12.50%	1	37° 37' 15.0000"	81° 56' 42.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	4/1/2012	Iron	Daily	0.88	1.41	60.23%	1	37° 37' 15.0000"	81° 56' 42.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	4/1/2012	Iron	Monthly	0.51	0.96	88.24%	30	37° 37' 15.0000"	81° 56' 42.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	5/31/2012	Iron	Monthly	0.51	0.59	15.69%	31	37° 37' 15.0000"	81° 56' 42.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	3/12/2013	Total Iron	Daily	0.88	0.98	11.36%	1	37° 37' 15.0000"	81° 56' 42.0000"	Left Fork/Ben Creek
Premium Energy, LLC	WV1018914	S-4004-00	047	3/31/2013	Total Iron	Monthly	0.51	0.615	20.59%	31	37° 37' 15.0000"	81° 56' 42.0000"	Left Fork/Ben Creek
Premium Energy, LLC	WV1018914	S-4004-00	089	1/31/2009	Aluminum, Total (as Al)	Daily	0.75	6.58	777.33%	1	37° 36' 22.0000"	81° 56' 46.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	089	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	3.32	670.93%	31	37° 36' 22.0000"	81° 56' 46.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	089	1/31/2009	Iron	Daily	0.88	4.04	359.09%	1	37° 36' 22.0000"	81° 56' 46.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	089	1/31/2009	Iron	Monthly	0.51	2.06	303.92%	31	37° 36' 22.0000"	81° 56' 46.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	089	1/31/2009	Total Suspended Solids	Daily	70	81.00	15.71%	1	37° 36' 22.0000"	81° 56' 46.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	089	1/31/2009	Total Suspended Solids	Monthly	35	40.50	15.71%	31	37° 36' 22.0000"	81° 56' 46.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	089	7/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.45	4.65%	31	37° 36' 22.0000"	81° 56' 46.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	089	7/31/2009	Iron	Monthly	0.51	0.74	45.10%	31	37° 36' 22.0000"	81° 56' 46.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	089	8/31/2009	Iron	Daily	0.88	1.02	15.91%	1	37° 36' 22.0000"	81° 56' 46.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	089	9/30/2011	Iron	Monthly	0.51	0.57	11.76%	30	37° 36' 22.0000"	81° 56' 46.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	089	5/31/2012	Iron	Monthly	0.51	0.56	9.80%	31	37° 36' 22.0000"	81° 56' 46.0000"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	092	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.58	34.88%	31	37° 36' 47"	81° 56' 24"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	092	1/31/2009	Iron	Monthly	0.51	0.63	23.53%	31	37° 36' 47"	81° 56' 24"	Bens Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Premium Energy, LLC	WV1018914	S-4004-00	092	9/1/2011	Aluminum, Total (as Al)	Daily	0.75	0.87	16.00%	1	37° 36' 47"	81° 56' 24"	Bens Creek
Premium Energy, LLC	WV1018914	S-4004-00	094	1/31/2009	Aluminum, Total (as Al)	Daily	0.75	1.10	46.67%	1	37° 37' 04"	81° 56' 31"	Ben Ck
Premium Energy, LLC	WV1018914	S-4004-00	094	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	1.10	155.81%	31	37° 37' 04"	81° 56' 31"	Ben Ck
Premium Energy, LLC	WV1018914	S-4004-00	094	1/31/2009	Iron	Monthly	0.51	0.75	47.06%	31	37° 37' 04"	81° 56' 31"	Ben Ck
Premium Energy, LLC	WV1018914	S-4004-00	096	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.66	53.49%	31	37° 37' 11"	81° 56' 45"	Ben Ck
Premium Energy, LLC	WV1018914	S-4004-00	096	1/31/2009	Iron	Monthly	0.51	0.72	41.18%	31	37° 37' 11"	81° 56' 45"	Ben Ck
Premium Energy, LLC	WV1020196	S-5020-99	002	8/31/2009	Iron	Daily	2.46	2.64	7.32%	1	37° 36' 35"	81° 56' 25"	Ben Ck
Premium Energy, LLC	WV1020196	S-5020-99	002	8/31/2009	Total Suspended Solids	Daily	70	186.00	165.71%	1	37° 36' 35"	81° 56' 25"	Ben Ck
Premium Energy, LLC	WV1020196	S-5020-99	002	8/31/2009	Total Suspended Solids	Monthly	35	98.50	181.43%	31	37° 36' 35"	81° 56' 25"	Ben Ck
Premium Energy, LLC	WV1020196	S-5020-99	003	11/30/2009	Iron	Daily	1.82	1.95	7.14%	1	37° 36' 46"	81° 56' 21"	Ben Ck
Premium Energy, LLC	WV1020196	S-5020-99	003	1/15/2013	Aluminum	Daily	0.14	.611	336.43%	1	37° 36' 46.00"	81° 56' 21.00"	Left Fork of Bens Creek
Premium Energy, LLC	WV1020196	S-5020-99	003	1/30/2013	Aluminum	Daily	0.14	.158	12.86%	1	37° 36' 46.00"	81° 56' 21.00"	Left Fork of Bens Creek
Premium Energy, LLC	WV1020196	S-5020-99	003	1/31/2013	Aluminum	Monthly	.08	0.3845	380.63%	31	37° 36' 46.00"	81° 56' 21.00"	Left Fork of Bens Creek
Premium Energy, LLC	WV1020196	S-5020-99	003	2/13/2013	Total Aluminum	Daily	0.14	0.154	10.00%	1	37° 36' 46.00"	81° 56' 21.00"	Left Fork of Bens Creek
Premium Energy, LLC	WV1020196	S-5020-99	003	2/28/2013	Total Aluminum	Monthly	0.08	0.115	43.75%	28	37° 36' 46.00"	81° 56' 21.00"	Left Fork of Bens Creek
Premium Energy, LLC	WV1020196	S-5020-99	004	1/31/2009	Iron	Monthly	1.05	1.32	25.71%	31	37° 36' 55"	81° 56' 23"	Ben Ck
Premium Energy, LLC	WV1020196	S-5020-99	010	2/8/2013	Total Aluminum	Daily	0.14	.226	61.43%	1	37° 37' 23"	81° 54' 06"	Left Fork of Bens Creek
Premium Energy, LLC	WV1020196	S-5020-99	010	2/28/2013	Total Aluminum	Monthly	.08	0.151	88.75%	28	37° 37' 23"	81° 54' 06"	Left Fork of Bens Creek
Premium Energy, LLC	WV1020196	S-5020-99	010	3/11/2013	Total Aluminum	Daily	0.14	0.173	23.57%	1	37° 37' 23"	81° 54' 06"	Left Fork/Ben Creek
Premium Energy, LLC	WV1020196	S-5020-99	011	1/31/2009	Iron	Daily	2.46	5.77	134.55%	1	37° 38' 04"	81° 54' 48"	Horsepen Ck
Premium Energy, LLC	WV1020196	S-5020-99	011	1/31/2009	Iron	Monthly	1.42	3.34	134.86%	31	37° 38' 04"	81° 54' 48"	Horsepen Ck
Premium Energy, LLC	WV1020196	S-5020-99	011	1/31/2009	Total Suspended Solids	Daily	70	180.00	157.14%	1	37° 38' 04"	81° 54' 48"	Horsepen Ck
Premium Energy, LLC	WV1020196	S-5020-99	011	1/31/2009	Total Suspended Solids	Monthly	35	101.00	188.57%	31	37° 38' 04"	81° 54' 48"	Horsepen Ck
Premium Energy, LLC	WV1020196	S-5020-99	011	2/8/2013	Total Aluminum	Daily	0.14	.217	55.00%	1	37° 38' 04"	81° 54' 08"	Horsepen Ck
Premium Energy, LLC	WV1020196	S-5020-99	011	2/28/2013	Total Aluminum	Monthly	.08	0.1565	95.63%	28	37° 38' 04"	81° 54' 08"	Horsepen Ck
Premium Energy, LLC	WV1020196	S-5020-99	011	3/11/2013	Total Aluminum	Daily	0.14	0.176	25.71%	1	37° 38' 04"	81° 54' 08"	Horsepen Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	004	3/31/2011	Aluminum, Total (as Al)	Daily	0.75	0.94	25.33%	1	37° 18' 31"	81° 32' 29"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	12/1/2011	Selenium, Total Recoverable	Daily	8.2	11.38	38.78%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	12/1/2011	Selenium, Total Recoverable	Daily	8.2	9.09	10.85%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	12/31/2011	Selenium, Total Recoverable	Monthly	4.7	10.235	117.77%	31	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	1/1/2012	Selenium, Total Recoverable	Daily	8.2	10.32	25.85%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	1/1/2012	Selenium, Total Recoverable	Daily	8.2	10.87	32.56%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	2/1/2012	Selenium, Total Recoverable	Daily	8.2	9.51	15.98%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	2/28/2012	Selenium, Total Recoverable	Monthly	4.7	8.065	71.60%	28	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	3/1/2012	Selenium, Total Recoverable	Daily	8.2	10.44	27.32%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	3/16/2012	Selenium, Total Recoverable	Daily	8.2	10.61	29.39%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	3/31/2012	Selenium, Total Recoverable	Monthly	4.7	10.52	123.83%	31	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	4/6/2012	Selenium, Total Recoverable	Daily	8.2	9.22	12.44%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	4/16/2012	Selenium, Total Recoverable	Daily	8.2	9.26	12.93%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	4/30/2012	Selenium, Total Recoverable	Monthly	4.7	9.24	96.60%	30	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	5/1/2012	Selenium, Total Recoverable	Daily	8.2	8.62	5.12%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	5/31/2012	Selenium, Total Recoverable	Monthly	4.7	8.105	72.45%	31	37° 18' 44.00"	81° 32' 43.00"	Sandlick Ck
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	6/3/2012	Selenium	Daily	8.2	8.3	1.22%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	6/30/2012	Selenium	Monthly	4.7	6.33	34.68%	30	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	7/17/2012	Selenium	Daily	8.20	8.36	1.95%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	7/31/2012	Selenium	Monthly	4.7	8.175	73.94%	31	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	8/31/2012	Selenium	Monthly	4.7	7.235	53.94%	31	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	9/1/2012	Selenium	Monthly	4.7	7.085	50.74%	30	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	9/17/2012	Selenium	Daily	8.2	8.44	2.93%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	10/31/2012	Selenium	Monthly	4.7	6.945	47.77%	31	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	11/1/2012	Selenium	Daily	8.2	9.29	13.29%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	11/19/2012	Selenium	Daily	8.2	9.09	10.85%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	11/30/2012	Selenium	Monthly	4.7	9.19	95.53%	30	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	12/18/2012	Selenium	Daily	8.2	9.969	21.57%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	12/31/2012	Selenium	Monthly	4.7	8.205	74.57%	31	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	1/3/2013	Selenium	Daily	8.2	10.12	23.41%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	1/17/2013	Selenium	Daily	8.2	10.35	26.22%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	1/31/2013	Selenium	Monthly	4.7	10.235	117.77%	31	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	2/3/2013	Selenium	Daily	8.2	8.97	9.39%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	2/18/2013	Selenium	Daily	8.2	11.13	35.73%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	2/28/2013	Selenium	Monthly	4.7	10.05	113.83%	28	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	3/3/13	Selenium	Daily	8.2	10.77	31.34%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	3/17/13	Selenium	Daily	8.2	9.02	10.00%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	3/31/2013	Selenium	Monthly	4.7	9.895	110.53%	31	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	4/2/13	Selenium	Daily	8.2	9.8	19.51%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	4/16/13	Selenium	Daily	8.2	11.98	46.10%	1	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV0066770	U-0075-84	031	4/30/2013	Selenium	Monthly	4.7	10.8	129.79%	30	37° 18' 44.00"	81° 32' 43.00"	Sandlick Creek
Riverside Energy Company, LLC	WV1005677	U-0618-00	001	4/30/2010	Aluminum, Total (as Al)	Daily	0.75	1.32	76.00%	1	37° 23' 10"	81° 50' 20"	Beartown Br
Riverside Energy Company, LLC	WV1005677	U-0618-00	001	4/30/2010	Aluminum, Total (as Al)	Monthly	0.43	0.669	55.58%	30	37° 23' 10"	81° 50' 20"	Beartown Br
Riverside Energy Company, LLC	WV1006274	E-0068-00	003	3/31/2010	Aluminum, Total (as Al)	Monthly	0.43	0.47	9.30%	31	37° 23' 06"	81° 49' 58"	Beartown Br
Riverside Energy Company, LLC	WV1016466	U-4009-96/U-4014-97	001	2/3/2013	Total Aluminum	Daily	0.75	.76	1.33%	1	37° 34' 56"	81° 29' 59"	Still Run
Riverside Energy Company, LLC	WV1018671	U-4011-98	001	2/28/2010	Aluminum, Total (as Al)	Daily	0.75	1.68	124.00%	1	37° 27' 29"	81° 49' 41"	Rock Br
Riverside Energy Company, LLC	WV1018671	U-4011-98	001	2/28/2010	Aluminum, Total (as Al)	Monthly	0.43	0.98	126.74%	28	37° 27' 29"	81° 49' 41"	Rock Br
Riverside Energy Company, LLC	WV1018671	U-4011-98	002	12/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.58	110.67%	1	37° 27' 42"	81° 49' 41"	Rock Br
Riverside Energy Company, LLC	WV1018671	U-4011-98	002	12/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.74	70.93%	31	37° 27' 42"	81° 49' 41"	Rock Br
Riverside Energy Company, LLC	WV1018671	U-4011-98	002	5/31/2009	Aluminum, Total (as Al)	Daily	0.75	0.89	18.67%	1	37° 27' 42"	81° 49' 41"	Rock Br
Riverside Energy Company, LLC	WV1018671	U-4011-98	002	5/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.65	50.00%	31	37° 27' 42"	81° 49' 41"	Rock Br
Riverside Energy Company, LLC	WV1018876	U-4023-87	008	1/1/2012	Aluminum, Total (as Al)	Daily	0.75	2.32	209.33%	1	37° 19' 37"	81° 31' 20"	UNT of Left Fork Sandlick Ck.
Riverside Energy Company, LLC	WV1018876	U-4023-87	008	1/1/2012	Manganese	Daily	3.47	3.88	11.82%	1	37° 19' 37"	81° 31' 20"	UNT of Left Fork Sandlick Ck.
Riverside Energy Company, LLC	WV1018990	U-4012-00	002	12/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.56	30.23%	31	37° 28' 51"	81° 51' 22"	Adkin Br
Rockspring Development, Inc.	WV0041734	U-0025-84	002	4/30/2011	Total Suspended Solids	Daily	70	74	5.71%	1	38° 09' 33"	82° 18' 52"	Right Fk
Rockspring Development, Inc.	WV0041734	U-0025-84	002	4/30/2011	Total Suspended Solids	Monthly	35	74	111.43%	30	38° 09' 33"	82° 18' 52"	Right Fk
Rockspring Development, Inc.	WV0041734	U-0025-84	005	4/30/2009	Iron	Monthly	3	3.06	2.00%	30	38° 09' 32"	82° 20' 16"	Right Fk
Rockspring Development, Inc.	WV0041734	U-0025-84	005	4/30/2009	Total Suspended Solids	Daily	70	82	17.14%	1	38° 09' 32"	82° 20' 16"	Right Fk
Rockspring Development, Inc.	WV0041734	U-0025-84	005	4/30/2009	Total Suspended Solids	Monthly	35	52	48.57%	30	38° 09' 32"	82° 20' 16"	Right Fk
Rockspring Development, Inc.	WV0041734	U-0025-84	011	4/30/2011	Total Suspended Solids	Daily	70	74	5.71%	1	38° 08' 43"	82° 20' 30"	Right Fk
Rockspring Development, Inc.	WV0041734	U-0025-84	011	4/30/2011	Total Suspended Solids	Monthly	35	40	14.29%	30	38° 08' 43"	82° 20' 30"	Right Fk
Rockspring Development, Inc.	WV0041734	U-25-84	013	3/31/2012	Aluminum	Monthly	0.43	0.569	32.33%	31	38° 09' 23"	82° 21' 12"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-25-84	013	4/30/2012	Aluminum	Monthly	0.43	0.544	26.51%	30	38° 09' 23"	82° 21' 12"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-25-84	013	6/30/2012	Aluminum	Monthly	0.43	0.484	12.56%	30	38° 09' 23"	82° 21' 12"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	3/31/2010	BOD, 5-Day 20 Deg.C	Daily	10	10.1	1.00%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Rockspring Development, Inc.	WV0041734	U-0025-84	401	3/31/2010	Chlorine, Total Residual	Daily	0.028	0.156	457.14%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-25-84	401	3/31/2010	BOD, 5-Day 20 Deg.C	Daily	3.34	3.37	0.90%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	4/30/2010	BOD, 5-Day 20 Deg.C	Daily	10	15.7	57.00%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	4/30/2010	Chlorine, Total Residual	Daily	0.028	1.83	6435.71%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	4/30/2010	Nitrogen, Kjeldahl Total	Daily	6	6.86	14.33%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-25-84	401	4/30/2010	BOD, 5-Day 20 Deg.C	Daily	3.34	5.24	56.89%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-25-84	401	4/30/2010	Nitrogen, Kjeldahl Total	Daily	2.16	2.29	6.02%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	10/31/2010	Chlorine, Total Residual	Daily	0.028	0.047	67.86%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	10/31/2010	Coliform, Fecal	Daily	400	1280	220.00%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	11/30/2010	Coliform, Fecal	Daily	400	1068	167.00%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	2/28/2011	BOD, 5-Day 20 Deg.C	Daily	10	11.2	12.00%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	2/28/2011	Coliform, Fecal	Daily	400	3600	800.00%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	3/31/2011	BOD, 5-Day 20 Deg.C	Daily	10	13.6	36.00%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	5/31/2011	BOD, 5-Day 20 Deg.C	Daily	10	16.3	63.00%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-0025-84	401	6/30/2011	BOD, 5-Day 20 Deg.C	Daily	10	14.4	44.00%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-25-84	401	10/11/2011	BOD	Daily	10	10.38	3.80%	1	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV0041734	U-25-84	401	8/31/2012	BOD	Monthly	5	5.22	4.40%	31	38° 09' 29"	82° 20' 09"	Rt. Fk. Camp Creek
Rockspring Development, Inc.	WV1016717	U-5028-95	001	6/30/2011	pH	Daily	9	9.7	7.78%	1	38°05'24"	82°17'18"	Ben Haley Br
Rockspring Development, Inc.	WV1016717	U-5028-95	401	3/31/2010	BOD, 5-Day 20 Deg.C	Daily	10	17.90	79.00%	1	38°05'24"	82°17'19"	Ben Haley Br
Rockspring Development, Inc.	WV1016717	U-5028-95	401	3/31/2010	Chlorine, Total Residual	Daily	0.028	0.071	153.57%	1	38°05'24"	82°17'19"	Ben Haley Br
Rockspring Development, Inc.	WV1016717	U-5028-95	401	3/31/2010	BOD, 5-Day 20 Deg.C	Daily	0.34	0.4479	31.74%	1	38°05'24"	82°17'19"	Ben Haley Br
Rockspring Development, Inc.	WV1016717	U-5028-95	401	3/30/2011	BOD, 5-Day 20 Deg.C	Daily	10	18.6	86.00%	1	38°05'24"	82°17'19"	Ben Haley Br
Rockspring Development, Inc.	WV1016717	U-5028-95	401	3/30/2011	Chlorine, Total Residual	Daily	0.028	<10		1	38°05'24"	82°17'19"	Ben Haley Br
Rockspring Development, Inc.	WV1016717	U-5028-95	401	6/30/2011	Chlorine, Total Residual	Daily	0.028	<10		1	38°05'24"	82°17'19"	Ben Haley Br
Rockspring Development, Inc.	WV1016717	U-5028-95	401	10/31/2012	Ammonia Nitrogen	Daily	6	10.64	77.33%	1	38° 05' 24"	82° 17' 19"	Ben Haley
Rockspring Development, Inc.	WV1016717	U-5028-95	401	10/31/2012	Fecal Coliform	Daily	400	>600		1	38° 05' 24"	82° 17' 19"	Ben Haley
Rockspring Development, Inc.	WV1016717	U-5028-95	401	1/31/2013	BOD	Daily	10.00	13.67	36.70%	1	38° 05' 24"	82° 17' 19"	Ben Haley
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	7/1/2007	Total Suspended Solids	Daily	70	102	45.71%	1	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	7/31/2007	Total Suspended Solids	Monthly	35	58.5	67.14%	31	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	9/30/2007	Oil & Grease	Monthly	10	14.8	48.00%	30	37-30-25	82-01-36	UT Lower Elk Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	1/31/2011	Iron	Daily	4	4.77	19.25%	1	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	1/31/2011	Oil & Grease	Daily	15	30.7	104.67%	1	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	1/31/2011	Oil & Grease	Monthly	10	26.3	163.00%	31	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	1/31/2011	Total Suspended Solids	Daily	70	150	114.29%	1	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	1/31/2011	Total Suspended Solids	Monthly	35	51.33	46.66%	31	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	3/1/2011	Iron	Daily	4	4.77	19.25%	1	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	3/1/2011	Oil & Grease	Daily	15	30.7	104.67%	1	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	3/1/2011	Total Suspended Solids	Daily	70	150	114.29%	1	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	3/31/2011	Oil & Grease	Monthly	10	26.3	163.00%	31	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	3/31/2011	Total Suspended Solids	Monthly	35	51.33	46.66%	31	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	6/1/2011	Iron	Daily	4	4.77	19.25%	1	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	6/1/2011	Oil & Grease	Daily	15	30.7	104.67%	1	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	6/1/2011	Total Suspended Solids	Daily	70	150	114.29%	1	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	6/30/2011	Oil & Grease	Monthly	10	26.3	163.00%	30	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	KYG045496	898-0777	08 (SB-2)	6/30/2011	Total Suspended Solids	Monthly	35	51.33	46.66%	30	37-30-25	82-01-36	UT Lower Elk Creek
Twin Star Mining, Inc.	VA0081956	1301956	006	3/20/2012	Total Suspended Solids	Daily	70	89	27.14%	1	37°29'9.78"	82° 1'3.41"	Middle Elk Ck
Twin Star Mining, Inc.	VA0081956	1301956	006	3/31/2012	Total Suspended Solids	Monthly	35	50	42.86%	31	37°29'9.78"	82° 1'3.41"	Middle Elk Ck
Twin Star Mining, Inc.	VA0081956	1301956	006	5/3/2012	Iron	Daily	6	16.36	172.67%	1	37°29'9.78"	82° 1'3.41"	Middle Elk Ck
Twin Star Mining, Inc.	VA0081956	1301956	006	5/3/2012	Total Suspended Solids	Daily	70	593	747.14%	1	37°29'9.78"	82° 1'3.41"	Middle Elk Ck
Twin Star Mining, Inc.	VA0081956	1301956	006	5/31/2012	Iron	Monthly	3	16.36	445.33%	31	37°29'9.78"	82° 1'3.41"	Middle Elk Ck
Twin Star Mining, Inc.	VA0081956	1301956	006	5/31/2012	Total Suspended Solids	Monthly	35	304	768.57%	31	37°29'9.78"	82° 1'3.41"	Middle Elk Ck
Twin Star Mining, Inc.	VA0081956	1301956	006	6/11/2012	Total Suspended Solids	Daily	70	219	212.86%	1	37°29'9.78"	82° 1'3.41"	Middle Elk Ck
Twin Star Mining, Inc.	VA0081956	1301956	006	6/18/2012	Iron	Daily	6	21.58	259.67%	1	37°29'9.78"	82° 1'3.41"	Middle Elk Ck
Twin Star Mining, Inc.	VA0081956	1301956	006	6/18/2012	Total Suspended Solids	Daily	70	277	295.71%	1	37°29'9.78"	82° 1'3.41"	Middle Elk Ck
Twin Star Mining, Inc.	VA0081956	1301956	006	6/30/2012	Iron	Monthly	3	13.7	356.67%	30	37°29'9.78"	82° 1'3.41"	Middle Elk Ck
Twin Star Mining, Inc.	VA0081956	1301956	006	6/30/2012	Total Suspended Solids	Monthly	35	248	608.57%	30	37°29'9.78"	82° 1'3.41"	Middle Elk Ck
Twin Star Mining, Inc.	VA0081956	1301956	011	1/1/2012	Iron	Daily	6	28.7	378.33%	1	37°29'17.3940"	82° 1'17.4474"	Middle Elk Creek
Twin Star Mining, Inc.	VA0081956	1301956	011	1/1/2012	Manganese	Daily	4	5.45	36.25%	1	37°29'17.3940"	82° 1'17.4474"	Middle Elk Creek
Twin Star Mining, Inc.	VA0081956	1301956	011	1/1/2012	Manganese	Daily	4	7.74	93.50%	1	37°29'17.3940"	82° 1'17.4474"	Middle Elk Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Twin Star Mining, Inc.	VA0081956	1301956	011	1/31/2012	Manganese	Monthly	2	6.6	230.00%	31	37°29'17.394 0"	82° 1'17.4474"	Middle Elk Creek
Twin Star Mining, Inc.	VA0081956	1301956	011	1/31/2012	pH	Daily	6	2.8	-53.33%	1	37°29'17.394 0"	82° 1'17.4474"	Middle Elk Creek
Twin Star Mining, Inc.	VA0081956	1301956	011	1/31/2012	pH	Daily	6	3.3	-45.00%	1	37°29'17.394 0"	82° 1'17.4474"	Middle Elk Creek
Twin Star Mining, Inc.	VA0081956	1301956	011	1/31/2012	Iron	Monthly	3	15.33	411.00%	31	37°29'17.394 0"	82° 1'17.4474"	Middle Elk Creek
Twin Star Mining, Inc.	VA0081956	1101956	011	3/26/2013	pH	Daily	6	2.6	-56.67%	1	37° 29' 17.4"	82° 01' 17.4"	Middle Elk Creek
Twin Star Mining, Inc.	VA0081956	1101956	011	4/17/2013	pH	Daily	6	2.9	-51.67%	1	37° 29' 17.4"	82° 01' 17.4"	Middle Elk Creek
Twin Star Mining, Inc.	VA0081956	1301956	6084807 / SB-1	7/24/2007	Total Suspended Solids	Daily	70	114.0	62.86%	1	37° 29' 42.22" W	82° 0' 50.62" N	Lower Elk Creek
Twin Star Mining, Inc.	VA0081956	1301956	6084807 / SB-1	7/31/2007	Total Suspended Solids	Monthly	35	114.0	225.71%	31	37° 29' 42.22" W	82° 0' 50.62" N	Lower Elk Creek
Twin Star Mining, Inc.	VA0081961	1101961	6080850 / LB-001	7/24/2007	Total Suspended Solids	Daily	70	81	15.71%	1	37° 29' 44.30" W	81° 59' 34.26" N	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	6080850 / LB-001	7/31/2007	Total Suspended Solids	Monthly	35	62.0	77.14%	31	37° 29' 44.30" W	81° 59' 34.26" N	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	6080850 / LB-001	1/1/2012	Iron	Daily	6	7.89	31.50%	1	37° 29' 44.30" W	81° 59' 34.26" N	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	6080850 / LB-001	1/1/2012	Iron	Daily	6	8.62	43.67%	1	37° 29' 44.30" W	81° 59' 34.26" N	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	6080850 / LB-001	1/1/2012	Iron	Daily	3	4.7	56.67%	1	37° 29' 44.30" W	81° 59' 34.26" N	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	6080850 / LB-001	1/1/2012	Total Suspended Solids	Daily	70	117	67.14%	1	37° 29' 44.30" W	81° 59' 34.26" N	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	6080850 / LB-001	1/1/2012	Total Suspended Solids	Daily	70	141	101.43%	1	37° 29' 44.30" W	81° 59' 34.26" N	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	6080850 / LB-001	1/31/2012	Iron	Monthly	3	6.71	123.67%	31	37° 29' 44.30" W	81° 59' 34.26" N	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	6080850 / LB-001	1/31/2012	Total Suspended Solids	Monthly	35	99.7	184.86%	31	37° 29' 44.30" W	81° 59' 34.26" N	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	6080850 / LB-001	4/17/2013	Total Suspended Solids	Monthly	35	48	37.14%	30	37° 29' 44.3"	81° 59' 34.3"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	2/1/2012	Iron	Daily	6	6.66	11.00%	1	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	2/28/2012	Iron	Monthly	3	6.66	122.00%	28	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	2/28/2012	Total Suspended Solids	Monthly	35	58	65.71%	28	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	3/14/2012	Iron	Daily	6	7.71	28.50%	1	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	3/20/2012	Total Suspended Solids	Daily	70	74	5.71%	1	37°29'44.897"	81°59'33.28"	Long Branch

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	3/23/2012	Iron	Daily	6	6.62	10.33%	1	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	3/31/2012	Iron	Monthly	3	6.63	121.00%	31	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	3/31/2012	Total Suspended Solids	Monthly	35	71.5	104.29%	31	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	4/6/2012	Iron	Daily	6	6.03	0.50%	1	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	4/26/2012	Iron	Daily	6	11.75	95.83%	1	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	4/26/2012	Total Suspended Solids	Daily	70	308	340.00%	1	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	4/30/2012	Iron	Monthly	3	7.34	144.67%	30	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	4/30/2012	Total Suspended Solids	Monthly	35	128	265.71%	30	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	9/14/2012	Total Suspended Solids	Daily	35	92	162.86%	1	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	9/14/2012	Iron	Monthly	3	11.8	293.33%	30	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	9/30/2012	Iron	Daily	6	11.8	96.67%	1	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-001	9/30/2012	Total Suspended Solids	Monthly	70	92	31.43%	30	37°29'44.897"	81°59'33.28"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-003	2/15/2013	Total Suspended Solids	Daily	70	115	64.29%	1	37° 29' 57.4"	81° 57' 58.5"	Long Branch
Twin Star Mining, Inc.	VA0081961	1101961	SB-003	2/28/2013	Total Suspended Solids	Monthly	35	57.5	64.29%	28	37° 29' 57.4"	81° 57' 58.5"	Long Branch
Twin Star Mining, Inc.	VA0081962	1301962	004	9/30/2012	Total Suspended Solids	Monthly	35	41	17.14%	30	37°28'8.39"	82°02'07.77"	Upper Elk Creek
Twin Star Mining, Inc.	VA0081962	1301962	6084690 / 002	3/14/2007	Total Suspended Solids	Daily	70	88.0	25.71%	1	37° 28' 5.52" W	82° 1' 51.46" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081962	1301962	6084690 / 002	3/31/2007	Total Suspended Solids	Monthly	35	45.5	30.00%	31	37° 28' 5.52" W	82° 1' 51.46" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081966	1101966	4260 / SB-001	7/24/2007	Total Suspended Solids	Daily	70	88	25.71%	1	37° 29' 43.39+F2" W	82° 0' 51.44" N	Lower Elk Creek
Twin Star Mining, Inc.	VA0081966	1101966	4260 / SB-001	7/31/2007	Total Suspended Solids	Monthly	35	49.5	41.43%	31	37° 29' 43.39+F2" W	82° 0' 51.44" N	Lower Elk Creek
Twin Star Mining, Inc.	VA0081966	1101966	6080851 / ME-001	5/30/2007	Total Suspended Solids	Daily	70	187.0	167.14%	1	37° 28' 59.62" W	82° 0' 56.52" N	Middle Elk Creek
Twin Star Mining, Inc.	VA0081966	1101966	6080851 / ME-001	5/31/2007	Total Suspended Solids	Monthly	35	94.5	170.00%	31	37° 28' 59.62" W	82° 0' 56.52" N	Middle Elk Creek
Twin Star Mining, Inc.	VA0081966	1101966	6080851 / ME-001	7/24/2007	Total Suspended Solids	Daily	70	82.0	17.14%	1	37° 28' 59.62" W	82° 0' 56.52" N	Middle Elk Creek
Twin Star Mining, Inc.	VA0081966	1101966	6080851 / ME-001	7/31/2007	Total Suspended Solids	Monthly	35	82.0	134.29%	31	37° 28' 59.62" W	82° 0' 56.52" N	Middle Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	4/30/2007	Total Suspended Solids	Monthly	35	36.5	4.29%	30	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	6/30/2007	Manganese	Monthly	2.0	2.3	15.00%	30	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	7/24/2007	Iron	Daily	6.0	40.9	581.67%	1	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	7/24/2007	Total Suspended Solids	Daily	70	1034.0	1377.14%	1	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	7/31/2007	Iron	Monthly	3.0	20.5	583.33%	31	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	7/31/2007	Total Suspended Solids	Monthly	35	521.0	1388.57%	31	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	5/28/2009	Manganese	Daily	4.0	9.0	125.00%	1	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	5/31/2009	Manganese	Monthly	2.0	4.6	127.50%	31	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	9/1/2011	Iron	Daily	6	9.07	51.17%	1	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	9/1/2011	Manganese	Daily	4	6.1	52.50%	1	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	9/20/2011	Iron	Daily	6.0	9.0	50.00%	1	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	9/20/2011	Manganese	Daily	4.0	6.0	50.00%	1	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	3/20/2012	pH	Daily	9	9.4	4.44%	1	37° 27' 54.30" W	81° 59' 54.33" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	7/26/2012	Total Suspended Solids	Monthly	35	68	94.29%	31	37°27'54.30"	81°59'54.3259"	Upper Elk Ck
Twin Star Mining, Inc.	VA0081969	1201969	6083237 / 002	7/31/2012	Total Suspended Solids	Daily	70	79	12.86%	1	37°27'54.30"	81°59'54.3259"	Upper Elk Ck
Twin Star Mining, Inc.	VA0081981	1101981	002	9/30/2011	Manganese	Monthly	2	2.55	27.50%	30	37°27'54.3033"	-081°59'54.3259"	Upper Elk Ck
Twin Star Mining, Inc.	VA0081981	1101981	004	8/31/2012	Total Suspended Solids	Monthly	35	47	34.29%	31	37°27'15.15"	82°0'35.154"	Pumpkin Branch
Twin Star Mining, Inc.	VA0081981	1101981	004	9/12/2012	Iron	Daily	3	6.17	105.67%	1	37°27'15.15"	82°0'35.154"	Pumpkin Branch
Twin Star Mining, Inc.	VA0081981	1101981	004	9/12/2012	Total Suspended Solids	Monthly	35	57	62.86%	30	37°27'15.15"	82°0'35.154"	Pumpkin Branch
Twin Star Mining, Inc.	VA0081981	1101981	004	9/21/2012	Iron	Daily	3	6.32	110.67%	1	37°27'15.15"	82°0'35.154"	Pumpkin Branch
Twin Star Mining, Inc.	VA0081981	1101981	004	9/30/2012	Iron	Monthly	3	6.25	108.33%	30	37°27'15.15"	82°0'35.154"	Pumpkin Branch
Twin Star Mining, Inc.	VA0081981	1101981	2898 / 001	7/24/2007	Iron	Daily	6.0	21.2	253.33%	1	37° 26' 39.90" W	81° 59' 41.15" N	Sycamore Fork
Twin Star Mining, Inc.	VA0081981	1101981	2898 / 001	7/31/2007	Iron	Monthly	3.0	10.6	253.33%	31	37° 26' 39.90" W	81° 59' 41.15" N	Sycamore Fork
Twin Star Mining, Inc.	VA0081981	1101981	2898 / 001	7/31/2009	Total Suspended Solids	Monthly	35	37.0	5.71%	31	37° 26' 39.90" W	81° 59' 41.15" N	Sycamore Fork
Twin Star Mining, Inc.	VA0081981	1101981	2898 / 001	12/20/2011	pH	Daily	6-9	200.0	2122.22%	1	37° 26' 39.90" W	81° 59' 41.15" N	Sycamore Fork
Twin Star Mining, Inc.	VA0081981	1101981	2899 / 002	4/15/2007	Iron	Daily	6.0	7.9	31.67%	1	37° 27' 55.58" W	81° 59' 49.37" N	Upper Elk Creek

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Twin Star Mining, Inc.	VA0081981	1101981	2899 / 002	4/30/2007	Iron	Monthly	3.0	4.3	41.67%	30	37° 27' 55.58" W	81° 59' 49.37" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081981	1101981	2899 / 002	7/24/2007	Iron	Daily	6.0	40.6	576.67%	1	37° 27' 55.58" W	81° 59' 49.37" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081981	1101981	2899 / 002	7/24/2007	Manganese	Daily	4.0	4.1	2.50%	1	37° 27' 55.58" W	81° 59' 49.37" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081981	1101981	2899 / 002	7/24/2007	Total Suspended Solids	Daily	70	1036.0	1380.00%	1	37° 27' 55.58" W	81° 59' 49.37" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081981	1101981	2899 / 002	7/31/2007	Iron	Monthly	3.0	40.6	1253.33%	31	37° 27' 55.58" W	81° 59' 49.37" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081981	1101981	2899 / 002	7/31/2007	Manganese	Monthly	2.0	4.1	105.00%	31	37° 27' 55.58" W	81° 59' 49.37" N	Upper Elk Creek
Twin Star Mining, Inc.	VA0081981	1101981	2899 / 002	7/31/2007	Total Suspended Solids	Monthly	35	1036.0	2860.00%	31	37° 27' 55.58" W	81° 59' 49.37" N	Upper Elk Creek
Twin Star Mining, Inc.	WV1006258		002	6/30/2008	Iron	Daily	5.26	6.14	16.73%	1	37° 27' 3.0000"	81° 57' 59.0000"	Road Fork of Bull Creek
Twin Star Mining, Inc.	WV1016334	S-4020-95	004	7/31/2008	Aluminum, Total (as Al)	Daily	0.75	0.78	4.00%	1	37° 27' 42"	81° 58' 59"	Bull Ck
Twin Star Mining, Inc.	WV1016334	S-4020-95	005	7/31/2008	Aluminum, Total (as Al)	Daily	0.75	0.93	24.00%	1	37° 27' 55"	81° 58' 31"	Bull Ck
Twin Star Mining, Inc.	WV1018252	S-4011-97	001	4/18/2012	Aluminum, Total (as Al)	Daily	0.75	0.81	8.00%	1	37° 28' 3.0000"	81° 59' 18.0000"	Bull Creek
Twin Star Mining, Inc.	WV1018252	S-4011-97	001	4/27/2012	Aluminum, Total (as Al)	Daily	0.75	0.87	16.00%	1	37° 28' 3.0000"	81° 59' 18.0000"	Bull Creek
Twin Star Mining, Inc.	WV1018252	S-4011-97	001	4/30/2012	Aluminum, Total (as Al)	Monthly	0.43	0.613333333	42.64%	30	37° 28' 3.0000"	81° 59' 18.0000"	Bull Creek
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	6/30/2008	Aluminum, Total (as Al)	Daily	0.14	1.20	757.14%	1	37 28' 03"	81 59' 18"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	6/30/2008	Aluminum, Total (as Al)	Monthly	0.08	0.67	737.50%	30	37 28' 03"	81 59' 18"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	7/31/2008	Aluminum, Total (as Al)	Daily	0.14	1.74	1142.86%	1	37 28' 03"	81 59' 18"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	7/31/2008	Aluminum, Total (as Al)	Monthly	0.08	0.99	1131.25%	31	37 28' 03"	81 59' 18"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	9/30/2008	Aluminum, Total (as Al)	Daily	0.75	1.01	34.67%	1	37 28' 03"	81 59' 18"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	9/30/2008	Aluminum, Total (as Al)	Monthly	0.43	0.55	27.91%	30	37 28' 03"	81 59' 18"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	10/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.14	52.00%	1	37 28' 03"	81 59' 18"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	1/31/2009	Aluminum, Total (as Al)	Daily	0.75	0.93	24.00%	1	37 28' 03"	81 59' 18"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.93	116.28%	31	37 28' 03"	81 59' 18"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	5/31/2009	Aluminum, Total (as Al)	Daily	0.75	0.82	9.33%	1	37 28' 03"	81 59' 18"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	5/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.51	18.60%	31	37 28' 03"	81 59' 18"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	8/22/2012	Aluminum	Daily	0.75	1.14	52.00%	1	37° 28' 3.0000"	81° 59' 18.0000"	Bull Creek
Twin Star Mining, Inc.	WV1018582	S-4011-97	001	8/31/2012	Aluminum	Monthly	0.43	0.76	76.74%	31	37° 28' 3.0000"	81° 59' 18.0000"	Bull Creek
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	6/30/2008	Aluminum, Total (as Al)	Daily	0.14	0.43	207.14%	1	37 28' 10"	81 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	6/30/2008	Aluminum, Total (as Al)	Monthly	0.08	0.29	256.25%	30	37 28' 10"	81 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	7/31/2008	Aluminum, Total (as Al)	Daily	0.14	1.80	1185.71%	1	37 28' 10"	81 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	7/31/2008	Aluminum, Total (as Al)	Monthly	0.08	1.16	1343.75%	31	37 28' 10"	81 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	8/31/2008	Aluminum, Total (as Al)	Daily	0.75	1.09	45.33%	1	37 28' 10"	81 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	8/31/2008	Aluminum, Total (as Al)	Monthly	0.43	0.58	34.88%	31	37 28' 10"	81 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	9/30/2008	Aluminum, Total (as Al)	Monthly	0.43	0.59	37.21%	30	37 28' 10"	81 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	1/31/2009	Aluminum, Total (as Al)	Daily	0.75	3.87	416.00%	1	37 28' 10"	81 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	3.87	800.00%	31	37 28' 10"	81 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	1/31/2009	Iron	Monthly	1.42	1.83	28.87%	31	37 28' 10"	81 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	5/31/2009	Aluminum, Total (as Al)	Daily	0.75	0.94	25.33%	1	37 28' 10"	81 59' 13"	Bull Ck

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	5/31/2009	Aluminum, Total (as Al)	Monthly	0.43	0.69	60.47%	31	37° 28' 10"	81° 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	5/31/2009	Total Suspended Solids	Monthly	35	37.50	7.14%	31	37° 28' 10"	81° 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	5/30/2012	Aluminum, Total (as Al)	Daily	0.75	1.57	109.33%	1	37° 28' 10"	81° 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	5/30/2012	Iron	Daily	2.46	3.68	49.59%	1	37° 28' 10"	81° 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	5/31/2012	Aluminum, Total (as Al)	Monthly	0.43	0.965	124.42%	31	37° 28' 10"	81° 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	002	5/31/2012	Iron	Monthly	1.42	2.05	44.37%	31	37° 28' 10"	81° 59' 13"	Bull Ck
Twin Star Mining, Inc.	WV1018582	S-4011-97	012	3/26/2013	Total Aluminum	Daily	0.75	1.79	138.67%	1	37° 28' 39.0000"	81° 59' 32.0000"	Bull Creek
Twin Star Mining, Inc.	WV1018582	S-4011-97	012	3/26/2013	Total Iron	Daily	2.45	5.12	108.98%	1	37° 28' 39.0000"	81° 59' 32.0000"	Bull Creek
Twin Star Mining, Inc.	WV1018582	S-4011-97	012	3/26/2013	Total Suspended Solids	Daily	70	87	24.29%	1	37° 28' 39.0000"	81° 59' 32.0000"	Bull Creek
Twin Star Mining, Inc.	WV1018582	S-4011-97	012	3/31/2013	Total Aluminum	Monthly	0.43	1.79	316.28%	31	37° 28' 39.0000"	81° 59' 32.0000"	Bull Creek
Twin Star Mining, Inc.	WV1018582	S-4011-97	012	3/31/2013	Total Iron	Monthly	1.41	5.12	263.12%	31	37° 28' 39.0000"	81° 59' 32.0000"	Bull Creek
Twin Star Mining, Inc.	WV1018582	S-4011-97	012	3/31/2013	Total Suspended Solids	Monthly	35	87	148.57%	31	37° 28' 39.0000"	81° 59' 32.0000"	Bull Creek
White Flame Energy, Inc.	WV1017080	S-5020-97	007	7/1/2011	Aluminum, Total (as Al)	Daily	0.75	0.8	6.67%	1	37° 41' 16.00"	82° 7' 48.00"	Big Pidgeonroost Br.
White Flame Energy, Inc.	WV1017080	S-5020-97	036	6/30/2008	Aluminum, Total (as Al)	Daily	0.14	0.34	142.86%	1	37° 40' 40"	82° 06' 33"	Oldfield Br
White Flame Energy, Inc.	WV1017080	S-5020-97	036	6/30/2008	Aluminum, Total (as Al)	Daily	0.14	3.24	2214.29%	1	37° 40' 40"	82° 06' 33"	Oldfield Br
White Flame Energy, Inc.	WV1017080	S-5020-97	036	6/30/2008	Aluminum, Total (as Al)	Monthly	0.08	0.205	156.25%	30	37° 40' 40"	82° 06' 33"	Oldfield Br
White Flame Energy, Inc.	WV1017080	S-5020-97	036	6/30/2008	Aluminum, Total (as Al)	Monthly	0.08	1.143	1328.75%	30	37° 40' 40"	82° 06' 33"	Oldfield Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	12/31/2008	Aluminum, Total (as Al)	Daily	0.75	9.49	1165.33%	1	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	12/31/2008	Aluminum, Total (as Al)	Monthly	0.43	8.85	1958.14%	31	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	12/31/2008	Iron	Daily	2.46	5.26	113.82%	1	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	12/31/2008	Iron	Monthly	1.42	4.58	222.54%	31	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	12/31/2008	Total Suspended Solids	Daily	70	122.00	74.29%	1	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	12/31/2008	Total Suspended Solids	Monthly	35	66.50	90.00%	31	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	1/31/2009	Aluminum, Total (as Al)	Daily	0.75	11.34	1412.00%	1	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	4.81	1017.67%	31	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	1/31/2009	Iron	Daily	2.46	6.75	174.39%	1	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	1/31/2009	Iron	Monthly	1.42	2.91	105.21%	31	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	1/31/2009	Total Suspended Solids	Daily	70	233.30	233.29%	1	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	1/31/2009	Total Suspended Solids	Monthly	35	78.06	123.03%	31	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	2/28/2009	Aluminum, Total (as Al)	Daily	0.75	1.01	34.67%	1	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	2/28/2009	Aluminum, Total (as Al)	Monthly	0.43	0.59	36.28%	28	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	2/28/2009	Iron	Daily	2.46	2.81	14.23%	1	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	2/28/2009	Total Suspended Solids	Daily	70	79.00	12.86%	1	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	005	2/28/2009	Total Suspended Solids	Monthly	35	47.67	36.19%	28	37° 42' 00"	82° 09' 57"	Slate Br
White Flame Energy, Inc.	WV1020579	S-5015-01	012	1/31/2009	Aluminum, Total (as Al)	Daily	0.75	7.99	965.33%	1	37° 41' 37"	82° 09' 04"	Curry Br
White Flame Energy, Inc.	WV1020579	S-5015-01	012	1/31/2009	Aluminum, Total (as Al)	Monthly	0.43	5.46	1169.77%	31	37° 41' 37"	82° 09' 04"	Curry Br
White Flame Energy, Inc.	WV1020579	S-5015-01	012	1/31/2009	Iron	Daily	2.46	14.82	502.44%	1	37° 41' 37"	82° 09' 04"	Curry Br
White Flame Energy, Inc.	WV1020579	S-5015-01	012	1/31/2009	Iron	Monthly	1.42	8.98	532.04%	31	37° 41' 37"	82° 09' 04"	Curry Br
White Flame Energy, Inc.	WV1020579	S-5015-01	012	1/31/2009	Total Suspended Solids	Daily	70	603.30	761.86%	1	37° 41' 37"	82° 09' 04"	Curry Br
White Flame Energy, Inc.	WV1020579	S-5015-01	012	1/31/2009	Total Suspended Solids	Monthly	35	327.15	834.71%	31	37° 41' 37"	82° 09' 04"	Curry Br
White Flame Energy, Inc.	WV1020579	S-5015-01	045	9/30/2008	Aluminum, Total (as Al)	Daily	0.75	1.29	72.00%	1	37° 40' 44"	82° 10' 02"	Evans Ferrell Br

Appendix A2: Legacy Alpha Violations

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date	Parameter	Sample Type (Monthly Average or Daily Max)	Permit Limit	Reported Value	Exceedance %	Days of Violation	Latitude	Longitude	Immediate Receiving Stream
White Flame Energy, Inc.	WV1020579	S-5015-01	045	9/30/2008	Aluminum, Total (as Al)	Monthly	0.43	0.72	68.14%	30	37 40' 44"	82 10' 02"	Evans Ferrell Br
White Flame Energy, Inc.	WV1020579	S-5015-01	045	12/31/2011	Total Suspended Solids	Monthly	35	45	28.57%	31	37 40' 44"	82 10' 02"	Evans Ferrell Br
White Flame Energy, Inc.	WV1020579	S-5015-01	047	9/30/2008	Aluminum, Total (as Al)	Monthly	0.43	0.47	8.14%	30	37 41' 00"	82 10' 01"	Evans Ferrell Br

Appendix A2: Legacy Alpha Violations**Claim Two: Unauthorized Discharges**

Permittee Name	NPDES Permit Number	SMCRA Permit Number	Outlet / Outfall	Date Unauthorized Discharge Began	Date Unauthorized Discharge Ended	Latitude	Longitude	Immediate Receiving Stream
Cumberland Coal Resources, LP	PA0033511	30743711	014	Jul-06	May-11	39-37-45	80-09-00	Whiteley Creek
Cumberland Coal Resources, LP	PA0235440	30010701	029	Apr-10	Present	39-47-55	80-07-57	U/T to Whiteley Creek