

*Annual Groundwater Monitoring and
Corrective Action Report
2020
Lockwood Ash Disposal Site*

**Lockwood Hills LLC
Dresden, New York**

January 2021

Prepared by



REPORT

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Prepared by
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Attachments

- A Appendix III Constituent Groundwater Monitoring Tables
- B Appendix IV Constituent Groundwater Monitoring Tables
- C Site Plan

1. Introduction

EnSol, Inc. (EnSol) has prepared this 2020 annual groundwater monitoring and corrective action report for the Lockwood Ash Disposal Site (Lockwood or the Facility) owned by Lockwood Hills LLC (Lockwood Hills), in accordance with sections of the Coal Combustion Residuals (CCR) rule that address groundwater monitoring and corrective action, 40 CFR 257.90 through 257.98. This report includes documentation of the status of Lockwood's groundwater monitoring and corrective action program, a summary of key activities completed in 2020, any issues encountered during the year, and corrective actions taken. The report also summarizes planned 2021 activities and work necessary to comply with 40 CFR §257.90(e). As required by 40 CFR §257.90(f), this report will be added to the facility's operating record by January 31, 2021. Within 30 days after that, Lockwood will notify the state director as required by 40 CFR §257.106(h) and upload the report to the Facility's publicly accessible website (§257.107(h)).

1.1 Site Description

Lockwood Hills manages an ash monofill located in the Town of Torrey, Yates County, New York on Swarthout Road. Lockwood Hills maintains a 6 NYCRR Part 360 Solid Waste Management Facility permit (Permit No. 8-5736-00005/00003) for this Facility issued by the New York State Department of Environmental Conservation (NYSDEC).

2. Groundwater Monitoring Program Status

2.1 Summary Findings

The CCR groundwater monitoring network for the Facility consists of 14 wells monitoring two water bearing units: (1) a water table in unconsolidated glacial till; and (2) groundwater in the fractures of underlying consolidated bedrock units. This network includes four up- or crossgradient wells and 10 downgradient wells. Of the 10 downgradient wells, seven are currently active and three are planned but have yet to be installed. The location of existing wells is presented on the Site Plan (Attachment C).

At the beginning of 2020, the Lockwood groundwater monitoring network was mostly in assessment monitoring, except for one Appendix III and several Appendix IV parameters that were still in the baseline monitoring period. Several parameter/well combinations transitioned from baseline to assessment monitoring during 2020. Those parameter/well combinations that remain in the baseline monitoring period are discussed in Section 2.7.

Statistically significant increases (SSIs) that occurred during 2020 for the following parameters:

- 1) Barium in MW-8942D in the third quarter.
- 2) Boron in MW-8404 during the third and fourth quarters; MW-8908D during the fourth quarter; and MW-8909D, MW-8910D, MW-8911D during all four quarters.
- 3) Calcium in MW-8910D and MW-8911SH in all four quarters.
- 4) Chloride in MW-8911SH during the third and fourth quarters.
- 5) pH in MW-8404 and MW-8910D during the second quarter; and MW-8909SH and MW-8909D during the fourth quarter.
- 6) Sulfate in MW-8908SH during the third quarter; MW-8908D during the second quarter; MW-8910D and MW-8911SH during all four quarters; and MW-8911D during the second and third quarters.
- 7) Total dissolved solids (TDS) in MW-8909D and MW-8911D during all four quarters; MW-8910D and MW-8911SH during the first three quarters; and MW-8942D during the second and third quarters.

Additionally, the groundwater protection standard for thallium was exceeded in the second quarter in MW-8401, the first and third quarters in MW-8404, and in MW-8908D and MW-8942 during the first quarter.

2.2 Key Actions Completed in 2020

- 1) Groundwater monitoring continued under the assessment monitoring program, which was initiated in 2019 per the notification filed in the Operating Record in August 2019.
- 2) Baseline statistical analyses were conducted, and background groundwater protection standards established for remaining Appendix III and IV parameters not completed during 2019 for most well/parameter combinations using the methods established in the Statistical Methods Demonstration (Daigler Engineering, August 2019).
- 3) Pursuant to the Consent Order (Case No. R8-20140710-47) a construction certification report and associated record drawings documenting contaminated sediment removal and improvements to the Facility's Settling Pond were approved by the NYSDEC on July 6, 2020 (Construction Certification

Report Settling Pond Sediment Removal and Improvements, Daigler Engineering, December 2019; revised, Daigler Engineering, February 2020).

- 4) Lockwood Hills applied for modifications to the Facility's SPDES and Part 360 permits. Final applications for these permits were submitted to the NYSDEC on June 1 and August 6, 2020, respectively.

2.3 Installation and Decommissioning of Wells

No wells were installed or decommissioned during 2020.

2.4 2020 Data Collection

Four quarterly sampling events occurred at Lockwood during 2020 (3/11 – 3/12/2020, 6/22/ - 6/24/2020, 9/21 – 9/24/2020, and 12/7 – 12/8/2020) during which samples were collected and subsequently analyzed for Appendix III constituents and all Appendix IV constituents except for antimony, barium, and chromium. These constituents were included only in the annual sampling event during the third quarter 2020. Several Appendix IV constituents (beryllium, cobalt, fluoride, lead, lithium, molybdenum, thallium, and radium 226+228) were sampled for the first time in 2019 and completed their baseline monitoring period for most wells in the fourth quarter of 2020 (see discussion in Section 2.7).

2.4.1 Groundwater Elevation and Flow Rate

During each monitoring event, groundwater elevations were measured in each well immediately prior to purging. The rate and direction of flow were determined following each monitoring event. The minimum and maximum flow rates calculated for the glacial till and bedrock units during 2020 are presented below in Table 1. Generalized groundwater potentiometric contours and the general direction of groundwater flow at the site based on measurements taken on December 7-8, 2020 are shown on the Site Plan in Attachment C. These generalized potentiometric contours are representative of the direction of groundwater flow throughout the year. Groundwater flow appears to be predominately southeast to northwest in the southern half of the site. In the northern half of the site, groundwater flow takes on a stronger downward gradient and typically shows a distinct angle towards the Keuka Outlet in the northwestern corner, especially in the glacial till. During 2020, the downward vertical gradient for the MW-8908 couplet on the eastern side of the site ranged from zero to 0.05 and the downward vertical hydraulic gradient for the MW-8909 couplet in the northwestern part of the site ranged from 0.62 to 0.66.

Table 1. GROUNDWATER FLOW RATES

	Flow Rate in Glacial Till (feet/year)	Flow Rate in Bedrock (feet/year)
Minimum	8.36×10^{-5}	1.13×10^{-2}
Maximum	9.02×10^{-5}	1.15×10^{-2}

2.5 Statistical Analysis

2.5.1 General

The results of the Appendix III constituents, including the four quarterly 2020 groundwater monitoring events are provided in Tables 1 through 11 in Attachment A. Tables 1 through 11 provided in Attachment B, present the existing datasets for Appendix IV constituents. In these tables, data are formatted in the following manner:

- Background data used to calculate trigger values are italicized and bracketed by thick lines;
- Strikethroughs indicate a data point was removed from the dataset. Valid reasons for which a specific data point would be excluded from the statistical analysis, include identification of a point as an outlier, a non-detect data point that is associated with a reporting limit greater than detected values in the same dataset, and data rejected as a result of data validation;
- Grayed out data indicate a data that were used previously but were replaced;
- SSIs are printed in bold. SSIs remain in bold even if the applicable trigger has been updated and the result would no longer be considered an SSI using the new trigger value. SSIs that also exceed the groundwater protection standard are shaded with a gray background. SSIs in replaced datasets (grayed out data) are no longer shown in bold; and
- An apostrophe next to an Appendix IV constituent name indicates that the method detection limit rather than the reporting limit was used as the censoring value.

2.5.2 Baseline Statistics

Downgradient MW-1842 was recently installed in 2018. Since installation it has been sampled 12 times. During 2020, baseline data (initial ten data points) were used to calculate trigger values for this well for most parameters. Six parameters, antimony, barium, chromium, cobalt, molybdenum, and thallium remain in the baseline monitoring period for this well.

2.6 Problems and Corrective Actions

- 1) The NYSDEC determined that select downgradient monitoring wells, which are now included as part of Lockwood's CCR groundwater monitoring system, had likely been impacted by the unlined leachate pond. Parameters covered under 40 CFR 257, Appendix III, most notably boron, are among the parameters the NYSDEC found to be elevated above background levels. Lockwood Hills and the NYSDEC entered into a Consent Order (Case No. R8-20140710-47) with the primary objective of developing and implementing a plan to eliminate discharge of leachate from the leachate pond to groundwater.

An assessment of corrective measures and selection of remedy were completed as part of the Consent Order. The remedy chosen was to remediate the leachate pond by removing and properly disposing of accumulated sediments, installing a geomembrane liner system, and adding enhanced treatment through a step aerator at the inlet to the settling pond. Activities associated with this Consent Order that occurred during 2020 include submittal of revised record drawings for the aforementioned construction, NYSDEC approval of the record drawings and associated construction certification report, and Lockwood Hills applying for and diligently pursuing modifications to the Facility's SPDES and Part 360 permits. With the chosen remedy now in place and approved by the NYSDEC, it is expected that elevated concentrations of leachate indicator parameters will begin to decline within the next few years.

- 2) Sampling of downgradient monitoring well MW-8910SH has been hampered by insufficient recovery. During all four sampling events in 2020, the well purged dry, and did not recover within the required 24 hours. To remedy this situation Lockwood plans to install a new well (MW-8910SHR) in coordination with State permitting efforts.

2.7 2020 Monitoring Program Transitions

The baseline period for beryllium, cobalt, fluoride, lithium, molybdenum, and radium-226+228 in most wells was completed with the fourth quarter 2020 monitoring event (12/7 & 12/8/2020). All samples collected after this date, except for the well/parameter combinations listed below, will be collected as part of Lockwood's assessment monitoring program. The well/parameter combinations listed below remain in the baseline monitoring period because application of a 6 NYCRR Part 360 rule or exclusion of outliers reduced the number of valid data points that could be used to establish trigger values. The rule stipulates that non-detects associated with detection limits higher than applicable standards or higher than detected values within the same dataset must not be used to establish existing water quality. The well/parameter combinations still in baseline monitoring include:

- Barium – MW-1842
- Beryllium – MW-8401 and MW-8909D
- Chromium – MW-1842
- Cobalt – MW-8404, MW-8908SH, and MW-1842
- Fluoride – MW-8908SH, MW-8908D, MW-8910D, MW-8911SH, and MW-8942D
- Lithium – MW-8908SH
- Molybdenum – MW-8909D and MW-1842
- Thallium – All wells

2.8 Projected Activities for 2021

It is expected that baseline and assessment monitoring activities will continue at Lockwood during 2021. This shall include development of trigger values for those well/parameter combinations still in the baseline monitoring period and comparison of Appendix III and IV parameter concentrations against calculated background (i.e., trigger values) and relevant groundwater protection standards. Assessment monitoring will continue until the concentrations of all Appendix III and IV constituents are shown to be at or below their respective statistical trigger values for two consecutive sampling events at which time Lockwood will return to detection monitoring. This is expected to occur in the future due to the recent completion of corrective measures but is unlikely to occur in 2021.

Wells that have completed their baseline monitoring period will be sampled on a semi-annual basis per 40 CFR 257.95(d)(1) for all Appendix III and Appendix IV constituents, except for those sampled quarterly pursuant to the Facility's Part 360 Solid Waste Management Facility permit. As Appendix IV parameters emerge from baseline monitoring, the first round of assessment monitoring will be reviewed to determine eligibility for reduction to an annual sampling frequency under 40 CFR 257.95(d)(1). The minimum eight to ten data points to calculate trigger values for the well/parameter combinations listed in Section 2.7 will be met for most constituents in 2021 or 2022.

Lockwood Hills anticipates that the NYSDEC will issue modified SPDES and Part 360 Solid Waste Management Facility permits during 2021. Three proposed wells, MW-8910SHR, MW-2101SH, and MW-2101D, will be installed after Lockwood receives the new State permits. Prior to installation of replacement well MW-8910SHR,

the existing MW-8910SH will be decommissioned. The proposed locations for these wells are shown on the Site Plan in Attachment C. Following installation of these wells, they will be sampled on at least a quarterly basis for all Appendix III and IV parameters to characterize the existing groundwater quality.

Attachment A

**Appendix III Constituent Groundwater
Monitoring Tables**

Table 1
Lockwood Hills LLC

MW-8401
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	903	92.4	92.9	Detect	6.9 - 7.7	106	562
8/9/1984	--	--	--	--	7.3	--	--
11/8/1984	--	--	--	--	7.0	--	--
2/5/1985	--	--	--	--	7.5	--	--
5/7/1985	--	--	--	--	7.4	--	--
8/8/1985	--	--	--	--	7.7	--	--
11/12/1985	--	--	--	--	7.4	--	--
2/27/1986	--	--	--	--	7.4	--	--
4/17/1986	--	--	--	--	7.4	--	--
7/18/1986	--	--	--	--	6.9	--	--
10/8/1986	--	--	--	--	7.4	--	--
1/22/1987	--	--	--	--	7.4	--	--
4/23/1987	--	--	--	--	7.3	--	--
7/14/1987	--	--	--	--	7.2	--	--
10/6/1987	--	--	--	--	7.3	--	--
1/25/1988	--	--	--	--	7.4	--	--
4/26/1988	--	--	--	--	7.3	--	--
7/21/1988	--	--	--	--	7.5	--	--
10/5/1988	--	--	--	--	7.5	--	--
1/10/1989	--	--	--	--	7.6	--	--
4/19/1989	690	--	--	--	7.5	--	--
7/18/1989	--	--	--	--	7.5	--	--
10/27/1989	--	--	--	--	7.7	--	--
1/5/1990	--	--	--	--	7.1	43.2	420
4/19/1990	--	76.2	--	--	7.5	42.9	430
7/11/1990	710	77.3	--	--	7.3	57.4	430
10/24/1990	790	76.9	--	--	7.4	76	497
1/30/1991	690	75.2	--	--	7.7	24.1	461
4/26/1991	670	73.2	--	--	7.3	41.4	437
7/11/1991	730	81	--	--	7.4	63.5	487
10/10/1991	790	81.4	--	--	7.3	61.1	500
1/10/1992	820	94.1	--	--	7.2	76.7	495
4/7/1992	610	77.2	--	--	7.4	66.7	475
7/8/1992	--	68.2	--	--	7.5	82.1	497
10/14/1992	--	77.3	--	--	7.3	71.9	471
1/18/1993	--	73.9	--	--	7.2	62.3	460
4/8/1993	630	78	--	--	7.4	69.8	484
7/13/1993	--	69.3	--	--	7.3	85.2	--
10/19/1993	--	76.2	--	--	7.0	50.5	--

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 1
Lockwood Hills LLC

MW-8401
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	903	92.4	92.9	Detect	6.9 - 7.7	106	562
1/13/1994	--	71.1	--	--	7.3	69.6	473
4/7/1994	--	84.2	--	--	7.3	71.8	490
7/11/1994	<i>710</i>	77.2	--	--	7.5	77.9	506
10/6/1994	--	64.4	--	--	7.3	78.9	485
1/9/1995	--	70	--	--	7.3	76.7	481
4/11/1995	--	70	--	--	7.1	61.1	456
7/10/1995	<i>660</i>	68	--	--	7.4	72.2	496
10/12/1995	--	71.8	--	--	7.5	64	489
1/5/1996	<i>620</i>	68.4	--	--	7.2	66	475
4/9/1996	--	68.1	--	--	7.4	60.2	402
7/9/1996	--	83.9	--	--	7.5	61.7	471
10/8/1996	--	61.1	--	--	7.6	68	477
1/13/1997	--	69.6	--	--	7.6	56.2	461
4/10/1997	<i>570</i>	70.1	--	--	7.5	53	449
7/16/1997	--	74.4	--	--	7.6	94.4	531
10/1/1997	--	78.5	--	--	7.4	89	525
1/13/1998	--	77.4	--	--	7.4	63	496
4/7/1998	--	74.7	--	--	7.3	57.3	477
7/15/1998	<i>752</i>	80.2	--	--	7.4	91.4	552
10/5/1998	--	80.9	--	--	7.2	77.6	505
1/12/1999	--	83	--	--	7.7	68.5	491
4/6/1999	--	85.8	--	--	7.3	60	484
7/13/1999	--	78	--	--	7.6	78.1	506
10/5/1999	<i>814</i>	77.3	--	--	7.5	99.3	504
1/11/2000	<i>705</i>	82.3	--	--	7.3	102	521
4/7/2000	--	77.7	--	--	7.4	88.9	510
7/11/2000	--	85.6	--	--	7.5	82	486
10/2/2000	--	71.1	--	--	7.2	78.3	477
1/12/2001	--	73.5	--	--	--	64	480
6/13/2001	<i>781</i>	82.1	--	--	7.5	79.2	505
9/5/2001	--	84.3	--	--	7.4	74.3	505
12/4/2001	--	79.4	--	--	7.4	69.4	491
3/12/2002	--	77.3	--	--	7.3	75.8	491
6/26/2002	1030	75.2	--	--	7.5	66.1	499
9/20/2002	--	72	--	--	7.4	70.8	492
12/17/2002	--	89.9	--	--	7.4	75.5	566
3/11/2003	--	79.9	--	--	7.5	73.3	536
6/4/2003	--	78.8	--	--	7.4	78	

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 1
Lockwood Hills LLC

MW-8401
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	903	92.4	92.9	Detect	6.9 - 7.7	106	562
9/16/2003	876	79.8	22.2	--	7.2	76.2	508
12/19/2003	--	83.7	--	--	7.4	78.9	500
3/19/2004	--	81	--	--	7.4	63.6	436
6/16/2004	--	81	--	--	7.3	55.3	452
9/16/2004	--	82	--	--	7.5	78.5	517
12/15/2004	736	84.3	34.1	--	7.4	63.6	490
3/31/2005	646	83.6	31.6	--	7.4	54.9	434
6/13/2005	--	83.3	--	--	7.5	71.7	517
9/13/2005	--	84.4	--	--	7.6	85.7	513
12/5/2005	--	78.4	--	--	7.3	81.2	467
3/6/2006	--	76	--	--	7.2	58.5	456
6/13/2006	697	84.9	22.7	--	7.2	84.5	530
9/11/2006	--	77.3	--	--	7.3	79.1	487
12/4/2006	--	76	--	--	7.5	73.7	373
3/5/2007	720	81	24.8	--	7.3	71.6	507
6/18/2007	737	75.9	22.7	--	7.2	76.7	507
9/10/2007	621	75.8	36.1	--	7.3	80.1	453
12/11/2007	693	97.2	60.8	--	7.2	79.8	485
3/4/2008	760	77.1	31.8	--	7.5	68.2	493
6/10/2008	606	69.8	21.5	--	7.2	57	437
9/8/2008	556	61.6	34.3	--	7.1	64.5	463
12/3/2008	684	80.9	51.5	--	7.2	72	290
3/10/2009	716	70.4	30.3	--	7.2	54.5	490
6/16/2009	839	75.7	24.3	--	7.1	53.8	445
9/2/2009	698	82.4	41	--	7.1	68.7	436
12/8/2009	724	79.3	38.8	--	7.2	61.8	403
3/9/2010	678	82.3	48.3	--	7.1	62.3	517
6/7/2010	1280	74.7	29.1	--	7.2	51.3	503
9/14/2010	674	76.4	29.3	--	7.2	45.9	467
12/16/2010	682	80.7	30.8	--	7.4	44.3	580
3/9/2011	650	78.1	43	--	7.2	57.8	509
6/14/2011	626	72.9	34.3	--	7.3	51	487
9/27/2011	720	81.8	52.8	--	7.2	78.3	509
12/21/2011	605	75.2	46.1	--	6.9	58.6	470
3/13/2012	673	83.8	45.6	--	7.5	63.9	510
6/27/2012	727	82.7	52.7	--	7.6	85.7	497
8/28/2012	742	82.7	49.3	--	7.4	83	620
10/10/2012	726	82.7	61.3	--	7.3	79.9	420

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 1
Lockwood Hills LLC

MW-8401
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	903	92.4	92.9	Detect	6.9 - 7.7	106	562
2/5/2013	784	127	47.1	--	7.5	72.3	525
4/16/2013	760	77.4	45.1	--	7.4	63.4	530
7/16/2013	702	99.3	60	--	7.3	79.8	515
10/9/2013	747	94.4	68.4	--	7.3	77.5	515
1/20/2014	614	77.5	56.5	--	7.5	71.6	555
4/8/2014	713	110	55.4	--	7.4	73.1	540
7/7/2014	710	104	55.6	--	7.3	71.8	530
10/21/2014	737	78.2	56.1	--	7.1	69.5	535
3/23/2015	--	--	--	--	--	--	--
6/24/2015	697	87.6	73.7	--	7.3	74.3	480
9/28/2015	679	85.4	82.2	--	7.5	79.1	530
11/18/2015	870	87	85.5	--	7.3	80.4	555
3/15/2016	807	80	44.4	--	7.6	72.6	455
6/13/2016	780	82.7	47.3	--	7.4	70.3	520
9/14/2016	722	81	61.6	--	7.6	68.7	555
12/6/2016	835	67.9	45.2	--	7.7	68.2	580
3/30/2017	863	81.9	36.8	--	8.0	64.9	480
6/29/2017	828	54.4	35.2	--	7.3	62	480
9/20/2017	820	92.9	47.7	--	7.2	86.9	520
12/26/2017	823	82.7	53.2	--	7.7	83.3	505
3/28/2018	803	69.7	34.9	--	7.4	75.1	460
6/21/2018	785	83.8	32.5	--	7.4	64.9	475
9/26/2018	900	82.9	31.3	--	7.7	59.9	515
12/12/2018	781	67.9	26.4	--	7.6	59.4	530
3/18/2019	761	78.4	25.4	<0.2	6.5	57	345
6/19/2019	739	74.4	31.7	<0.2	7.4	72	480
9/18/2019	817	88.7	45.4	<0.2	8.2	74.8	450
11/20/2019	881	89.1	50.3	<0.2	7.4	79	560
3/11/2020	741	87.3	30.0	<0.2	7.1	63.9	455
6/24/2020	766	82.7	30.5	<0.2	7.2	65.6	515
9/23/2020	774	77	43.9	<0.2	7.2	73.5	555
12/7/2020	847	88.1	52.7	<0.2	7.2	73.3	510

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 2
Lockwood Hills LLC

MW-8404
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	418	147	5.47	0.251	6.9 - 8.0	169	625
8/9/1984	--	--	--	--	7.4	--	--
11/8/1984	--	--	--	--	6.8	--	--
2/5/1985	--	--	--	--	7.5	--	--
5/7/1985	--	--	--	--	7.4	--	--
8/9/1985	--	--	--	--	7.2	--	--
11/13/1985	--	--	--	--	7.4	--	--
2/27/1986	--	--	--	--	7.4	--	--
4/17/1986	--	--	--	--	7.7	--	--
7/18/1986	--	--	--	--	7.0	--	--
10/8/1986	--	--	--	--	7.6	--	--
1/22/1987	--	--	--	--	7.4	--	--
4/23/1987	--	--	--	--	7.3	--	--
7/14/1987	--	--	--	--	7.3	--	--
10/6/1987	--	--	--	--	7.4	--	--
1/25/1988	--	--	--	--	7.4	--	--
4/26/1988	--	--	--	--	7.5	--	--
7/21/1988	--	--	--	--	7.6	--	--
10/5/1988	--	--	--	--	7.6	--	--
1/10/1989	--	--	--	--	7.8	--	--
4/19/1989	92	--	--	--	7.5	--	--
7/18/1989	--	--	--	--	7.7	--	--
10/27/1989	--	--	--	--	7.8	--	--
1/5/1990	--	--	--	--	7.2	49.6	388
4/19/1990	--	60.8	--	--	7.5	39.7	386
7/11/1990	820	62.3	--	--	7.5	31.1	391
10/24/1990	870	58.7	--	--	7.5	48.4	408
1/30/1991	910	57.8	--	--	7.5	23.9	407
4/26/1991	940	58.9	--	--	7.5	42.4	430
7/11/1991	950	60.2	--	--	7.4	58	419
10/10/1991	970	56.4	--	--	7.4	42.8	410
1/10/1992	1020	62.9	--	--	7.7	44.3	411
4/7/1992	950	55.1	--	--	7.6	48.7	411
7/8/1992	--	49.1	--	--	7.5	55	407
10/14/1992	--	56.6	--	--	7.5	52.9	412
1/18/1993	--	53.9	--	--	7.4	52.5	431
4/8/1993	910	55.1	--	--	7.7	59.9	434
7/13/1993	--	53.3	--	--	7.5	54.8	410
10/19/1993	--	66.5	--	--	7.1	77.4	--

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 2
Lockwood Hills LLC

MW-8404
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	418	147	5.47	0.251	6.9 - 8.0	169	625
1/13/1994	--	103	--	--	7.4	157	521
4/7/1994	--	97.7	--	--	7.3	113	470
7/11/1994	440	92.6	--	--	7.4	84.9	437
10/6/1994	--	50.3	--	--	7.3	60.6	418
1/9/1995	--	74.1	--	--	7.2	97.2	446
4/11/1995	--	85.4	--	--	7.2	99.7	467
7/11/1995	250	115	--	--	7.3	109	476
10/12/1995	--	109	--	--	7.2	129	485
1/4/1996	130	106	--	--	7.4	116	468
4/9/1996	--	109	--	--	7.1	111	377
7/10/1996	--	115	--	--	6.9	124	472
10/8/1996	--	95.4	--	--	7.3	110	477
1/14/1997	--	114	--	--	7.5	115	472
4/10/1997	120	106	--	--	7.4	101	473
7/16/1997	--	112	--	--	6.9	122	479
10/1/1997	--	94.5	--	--	7.1	123	501
1/13/1998	--	101	--	--	7.1	75.2	387
4/7/1998	--	102	--	--	7.0	82.3	400
7/15/1998	356	102	--	--	7.1	104	464
10/6/1998	--	93.6	--	--	7.3	83.2	441
1/12/1999	--	129	--	--	7.2	155	513
4/5/1999	--	98	--	--	7.9	103	380
7/13/1999	--	105	--	--	7.4	105	410
10/6/1999	258	115	--	--	7.0	144	466
1/11/2000	151	104	--	--	7.4	123	430
4/6/2000	--	98.3	--	--	7.3	104	408
7/11/2000	--	118	--	--	7.3	114	460
10/2/2000	--	109	--	--	7.2	118	446
1/12/2001	--	111	--	--	7.2	116	444
6/13/2001	222	116	--	--	7.4	125	500
9/5/2001	--	84.6	--	--	7.6	77.5	438
12/4/2001	--	124	--	--	7.0	182	549
3/12/2002	--	107	--	--	7.1	139	455
6/27/2002	196	111	--	--	7.1	141	504
9/20/2002	--	104	--	--	7.1	116	464
12/17/2002	--	109	--	--	7.2	131	489
3/11/2003	--	99.3	--	--	7.3	110	429
6/4/2003	--	110	--	--	7.6	124	492

1. SSIs = Bold

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3. Strikethrough = Data point removed from baseline statistics

Table 2
Lockwood Hills LLC

MW-8404
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	418	147	5.47	0.251	6.9 - 8.0	169	625
9/16/2003	334	120	4.23	--	7.2	110	491
12/19/2003	--	117	--	--	7.0	99	430
3/17/2004	--	107	--	--	7.2	116	456
6/16/2004	--	123	--	--	7.1	109	772
9/16/2004	--	127	--	--	7.5	95.8	524
12/15/2004	185	133	3.18	--	6.9	90.6	463
3/30/2005	136	139	8.93	--	7.0	80.3	511
6/13/2005	--	126	--	--	7.2	107	500
9/14/2005	--	137	--	--	7.2	104	510
12/5/2005	--	156	--	--	6.9	101	515
3/6/2006	--	142	--	--	7.3	118	490
6/13/2006	151	140	4.06	--	7.0	111	603
9/11/2006	--	135	--	--	7.2	92.2	597
12/4/2006	--	143	--	--	7.0	101	353
3/5/2007	308	116	3.64	--	7.3	115	482
6/18/2007	349	124	2.78	--	7.1	100	500
9/11/2007	527	103	2.47	--	7.2	87.3	427
12/11/2007	202	141	3.42	--	6.9	101	500
3/4/2008	169	139	3.44	--	6.8	101	410
6/10/2008	65.2	99.4	2.52	--	6.9	103	467
9/8/2008	163	106	4.35	--	6.8	120	493
12/1/2008	175	128	3.69	--	6.9	134	383
3/9/2009	126	122	2.33	--	6.8	87.7	500
6/16/2009	229	127	2.58	--	7.1	108	455
9/1/2009	204	133	2.93	--	7.0	120	513
12/7/2009	180	121	3.52	--	6.9	136	298
3/9/2010	134	138	1.1	--	7.0	100	500
6/7/2010	445	123	2.53	--	6.9	120	513
9/14/2010	263	124	<10	--	6.8	110	500
12/13/2010	94.1	133	<10	--	6.8	91.3	673
3/8/2011	153	127	<10	--	6.7	82.3	520
6/14/2011	123	117	<10	--	6.8	92.4	560
9/27/2011	220	133	5	--	6.6	158	525
12/20/2011	118	127	2.81	--	6.9	100	485
3/13/2012	188	114	3.32	--	7.2	120	460
6/27/2012	158	121	2.1	--	7.1	104	462
8/28/2012	376	111	2.85	--	7.0	108	585
10/9/2012	278	118	3.38	--	7.3	148	380

1. SSIs = Bold

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Table 2
Lockwood Hills LLC

MW-8404
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	418	147	5.47	0.251	6.9 - 8.0	169	625
2/5/2013	189	120	2.6	--	7.1	105	460
4/16/2013	99.6	119	<2	--	7.2	78.8	540
7/16/2013	162	107	2.69	--	7.0	129	445
10/9/2013	217	112	3.14	--	6.8	139	470
1/20/2014	109	131	2.58	--	6.9	104	450
4/7/2014	145	117	2.95	--	6.9	108	470
7/7/2014	171	169	2.95	--	7.0	119	480
10/20/2014	235	118	2.49	--	6.4	115	435
3/23/2015	234	163	2.42	--	7.0	108	480
6/24/2015	181	163	<2	--	7.1	105	480
9/28/2015	254	114	2.61	--	6.9	119	425
11/18/2015	186	120	2.56	--	7.0	155	480
3/15/2016	127	129	<2	--	7.1	109	450
6/13/2016	255	117	<2	--	6.8	108	485
9/14/2016	933	72.4	<2	--	7.5	61.2	450
12/6/2016	197	105	<2	--	8.0	93.9	525
3/30/2017	141	118	<2	--	7.3	94.8	455
6/29/2017	170	105	<2	--	7.1	114	400
9/20/2017	249	128	<2	--	6.8	109	535
12/27/2017	186	120	<2	--	6.8	96.2	380
3/29/2018	106	111	2.23	--	7.1	115	500
6/21/2018	162	122	<2	--	7.2	117	405
9/26/2018	223	119	<2	--	7.3	112	560
12/12/2018	194	140	2.11	--	8.2	90	550
3/18/2019	93.7	112	2.62	0.23	7.2	87.6	365
6/19/2019	124	109	<2	<0.2	8.1	99.5	395
9/18/2019	323	121	<2	<0.2	7.2	85.1	395
11/20/2019	179	128	2.17	<0.2	7.1	137	465
3/11/2020	140	113	<2	<0.2	7.0	86.5	355
6/24/2020	146	115	<2	0.3	6.3	86	530
9/23/2020	448	105	2.16	<0.2	7.7	74.8	460
12/7/2020	482	113	2.44	<0.2	6.9	134	450

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 3
Lockwood Hills LLC

MW-8908SH
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	273	260	26.0	TBD	6.8 - 7.7	364	1089
10/31/1989	<i>130</i>	--	--	--	7.3	--	--
11/15/1989	<i>98</i>	--	--	--	7.2	--	--
1/5/1990	<i>76</i>	112	--	--	7.5	125	555
4/19/1990	--	135	--	--	7.4	271	774
7/11/1990	<i>130</i>	131	--	--	7.2	158	677
10/24/1990	<i>200</i>	163	--	--	7.2	237	790
1/30/1991	<i>220</i>	129	--	--	7.6	140	764
4/26/1991	<i>140</i>	163	--	--	7.3	247	772
7/11/1991	<i>170</i>	163	--	--	7.2	303	770
10/10/1991	<i>260</i>	164	--	--	7.1	292	761
1/10/1992	<i>140</i>	160	--	--	7.4	214	669
4/7/1992	<i>130</i>	137	--	--	7.2	252	668
7/8/1992	--	115	--	--	7.3	212	637
10/14/1992	--	130	--	--	7.1	222	664
1/18/1993	--	121	--	--	7.1	190	639
4/8/1993	<i>87</i>	122	--	--	7.5	221	669
7/13/1993	--	156	--	--	7.7	281	--
10/20/1993	--	131	--	--	7.4	216	696
1/13/1994	--	136	--	--	7.2	237	750
4/7/1994	--	142	--	--	7.4	101	750
7/11/1994	<i>150</i>	156	--	--	7.7	332	841
10/6/1994	--	129	--	--	7.1	277	711
1/10/1995	--	120	--	--	7.2	260	704
4/11/1995	--	133	--	--	7.0	262	746
7/10/1995	<i>150</i>	147	--	--	7.2	338	797
10/12/1995	--	146	--	--	7.3	301	793
1/4/1996	<i>140</i>	132	--	--	7.5	273	732
4/8/1996	--	130	--	--	7.5	266	767
7/10/1996	--	173	--	--	7.5	304	813
10/8/1996	--	130	--	--	7.3	290	834
1/14/1997	--	128	--	--	7.6	244	711
4/10/1997	<i>110</i>	130	--	--	7.3	284	764
7/16/1997	--	161	--	--	7.2	391	961
10/2/1997	--	166	--	--	7.2	356	902
1/13/1998	--	149	--	--	7.3	265	775
4/6/1998	--	148	--	--	7.3	264	767
7/15/1998	<i>160</i>	183	--	--	7.3	362	1066
10/5/1998	--	176	--	--	7.0	304	865

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 3
Lockwood Hills LLC

MW-8908SH
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	273	260	26.0	TBD	6.8 - 7.7	364	1089
1/12/1999	--	169	--	--	7.3	311	794
4/5/1999	--	157	--	--	7.1	302	744
7/13/1999	--	167	--	--	7.4	308	811
10/5/1999	<i>217</i>	156	--	--	7.0	338	780
1/11/2000	<i>188</i>	147	--	--	7.3	311	717
4/6/2000	--	149	--	--	7.2	292	743
7/11/2000	--	181	--	--	7.6	291	787
10/2/2000	--	150	--	--	6.8	329	778
1/12/2001	--	161	--	--	7.3	316	791
6/12/2001	<i>144</i>	185	--	--	7.2	348	926
9/5/2001	--	181	--	--	7.0	371	940
12/4/2001	--	156	--	--	7.1	288	756
3/12/2002	--	157	--	--	7.1	281	796
6/26/2002	<i>162</i>	148	--	--	7.3	304	824
9/19/2002	--	155	--	--	7.2	324	1760
12/11/2002	--	154	--	--	7.1	302	785
3/11/2003	--	148	--	--	7.3	291	800
6/4/2003	--	165	--	--	7.4	297	803
9/16/2003	318	168	<u>23.3</u>	--	7.0	302	868
12/19/2003	--	166	--	--	7.3	301	813
3/18/2004	--	154	--	--	7.1	344	822
6/16/2004	--	184	--	--	7.1	373	880
9/15/2004	--	174	--	--	8.0	339	913
12/15/2004	<i>135</i>	187	<u>16.3</u>	--	7.3	299	767
3/30/2005	<i>107</i>	185	<u>18.1</u>	--	7.2	333	846
6/15/2005	--	202	--	--	7.1	371	893
9/15/2005	--	205	--	--	7.1	398	887
12/5/2005	--	170	--	--	7.1	309	740
3/6/2006	--	166	--	--	7.1	295	707
6/13/2006	<i>127</i>	191	<u>14.2</u>	--	7.0	316	907
9/11/2006	--	161	--	--	7.1	314	1150
12/4/2006	--	155	--	--	7.0	302	680
3/5/2007	<i>109</i>	171	<u>12.1</u>	--	7.0	306	813
6/18/2007	<i>88</i>	191	<u>13.4</u>	--	6.9	358	913
9/10/2007	<i>157</i>	<u>172</u>	<u>10.6</u>	--	7.1	392	740
12/11/2007	<i>212</i>	<u>184</u>	<u>11.2</u>	--	6.9	348	807
3/4/2008	<i>142</i>	<u>182</u>	<u>13.7</u>	--	7.1	349	813
6/10/2008	<i>87.7</i>	<u>191</u>	<u>14.6</u>	--	7.0	384	833

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 3
Lockwood Hills LLC

MW-8908SH
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	273	260	26.0	TBD	6.8 - 7.7	364	1089
9/8/2008	69	156	12.6	--	6.9	400	793
12/1/2008	123	178	12.9	--	6.9	414	547
3/9/2009	136	157	13.6	--	7.0	339	840
6/16/2009	191	189	15.4	--	6.8	377	935
9/1/2009	162	203	20.0	--	7.1	432	515
12/7/2009	157	185	18.7	--	6.8	369	873
3/9/2010	125	190	10.9	--	6.8	379	980
6/7/2010	566	199	27.4	--	6.9	397	1040
9/14/2010	152	195	27.2	--	6.8	394	927
12/13/2010	99.9	203	29.0	--	6.8	362	1210
3/8/2011	79.3	191	29.8	--	7.0	372	910
6/14/2011	104	182	28.3	--	6.9	354	1030
9/27/2011	190	191	26.2	--	6.7	369	907
12/21/2011	152	171	20.2	--	6.4	304	850
3/13/2012	96	144	22.2	--	7.0	345	865
6/27/2012	144	188	20.4	--	7.2	411	925
8/28/2012	202	169	11.3	--	7.0	352	885
10/10/2012	216	150	8.15	--	7.1	302	700
2/5/2013	166	160	14.5	--	7.4	294	765
4/16/2013	130	156	13.7	--	7.7	285	855
7/16/2013	176	196	20.4	--	7.0	426	935
10/9/2013	252	204	22.0	--	7.0	420	965
1/20/2014	105	212	20.4	--	7.3	383	960
4/7/2014	126	185	19.0	--	7.2	368	900
7/7/2014	137	306	22.4	--	7.0	425	1030
10/20/2014	178	207	19.6	--	6.6	442	985
3/23/2015	125	230	20.1	--	7.2	382	980
6/24/2015	127	232	17.3	--	7.3	317	905
9/28/2015	144	254	23.0	--	7.1	481	1030
11/18/2015	181	189	27.9	--	6.9	399	945
3/15/2016	143	193	26.0	--	7.2	320	880
6/13/2016	134	194	26.2	--	7.0	336	950
9/14/2016	226	173	14.4	--	7.3	349	880
12/6/2016	173	144	18.4	--	7.4	319	865
3/30/2017	148	159	13.5	--	7.4	254	730
6/29/2017	169	128	16.4	--	7.2	341	805
9/20/2017	177	190	15.3	--	6.8	317	955
12/27/2017	154	173	12.3	--	7.4	243	740

1. SSIs = Bold

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Table 3
Lockwood Hills LLC

MW-8908SH
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	273	260	26.0	TBD	6.8 - 7.7	364	1089
3/29/2018	123	166	11.8	--	7.0	218	820
6/21/2018	143	170	14.6	--	7.1	257	775
9/26/2018	197	273	17.3	--	7.2	402	1020
12/12/2018	172	180	14.0	--	7.2	279	905
3/18/2019	132	170	13.5	<0.5	6.8	240	690
6/19/2019	115	191	9.27	<0.2	7.8	188	650
9/18/2019	188	229	15.8	<0.2	8.8	396	990
11/20/2019	196	211	15.9	<0.2	7.0	378	905
3/11/2020	141	177	13.4	<0.2	7.2	287	775
6/24/2020	136	178	13.3	<0.2	7.0	347	925
9/23/2020	202	181	10.7	0.23	7.2	394	955
12/7/2020	206	188	10.5	0.2	6.8	338	840

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 4
Lockwood Hills LLC

MW-8908D
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	253	175	25.7	TBD	7.0 - 7.5	331	971
10/31/1989	<i>190</i>	--	--	--	7.3	--	--
11/15/1989	<i>210</i>	--	--	--	7.2	--	--
1/5/1990	<i>250</i>	137	--	--	7.5	271	760
4/19/1990	--	131	--	--	7.5	256	722
7/11/1990	<i>230</i>	138	--	--	7.2	434	750
10/24/1990	<i>280</i>	135	--	--	7.2	242	722
1/30/1991	<i>110</i>	150	--	--	7.3	185	802
4/26/1991	<i>230</i>	141	--	--	7.2	227	687
7/11/1991	<i>200</i>	136	--	--	7.2	292	718
10/10/1991	<i>290</i>	142	--	--	7.1	270	704
1/10/1992	<i>260</i>	141	--	--	7.4	266	702
4/7/1992	<i>210</i>	128	--	--	7.3	283	722
7/8/1992	--	115	--	--	7.3	267	707
10/14/1992	--	134	--	--	7.2	261	705
1/18/1993	--	120	--	--	7.1	226	684
4/8/1993	<i>170</i>	124	--	--	7.5	252	709
7/13/1993	--	121	--	--	7.8	250	--
10/20/1993	--	128	--	--	7.4	223	--
1/13/1994	--	122	--	--	7.2	235	683
4/7/1994	--	140	--	--	7.2	254	710
7/11/1994	<i>190</i>	131	--	--	7.1	261	737
10/6/1994	--	122	--	--	7.1	254	703
1/10/1995	--	115	--	--	7.3	255	691
4/11/1995	--	118	--	--	7.1	232	707
7/10/1995	<i>180</i>	119	--	--	7.1	267	713
10/12/1995	--	118	--	--	7.3	247	703
1/4/1996	<i>170</i>	111	--	--	7.4	233	694
4/8/1996	--	123	--	--	7.4	255	683
7/10/1996	--	128	--	--	7.1	259	724
10/8/1996	--	104	--	--	7.3	270	720
1/14/1997	--	123	--	--	7.2	266	724
4/10/1997	<i>210</i>	131	--	--	7.4	277	749
7/16/1997	--	130	--	--	7.2	310	815
10/2/1997	--	140	--	--	7.3	296	793
1/13/1998	--	137	--	--	7.1	274	791
4/6/1998	--	139	--	--	7.2	315	804
7/15/1998	<i>228</i>	146	--	--	7.3	307	880
10/5/1998	--	144	--	--	7.0	285	791

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 4
Lockwood Hills LLC

MW-8908D
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	253	175	25.7	TBD	7.0 - 7.5	331	971
1/12/1999	--	139	--	--	7.4	289	779
4/5/1999	--	146	--	--	7.2	302	743
7/13/1999	--	140	--	--	7.3	261	749
10/5/1999	209	132	--	--	7.2	280	722
1/11/2000	205	129	--	--	7.3	288	705
4/6/2000	--	128	--	--	7.3	285	737
7/11/2000	--	138	--	--	7.2	290	750
10/2/2000	--	131	--	--	7.0	297	722
1/12/2001	--	138	--	--	7.3	284	745
6/12/2001	209	149	--	--	7.3	301	802
9/5/2001	--	168	--	--	7.1	299	783
12/4/2001	--	140	--	--	7.1	289	869
3/12/2002	--	133	--	--	7.4	273	784
6/26/2002	224	136	--	--	7.3	280	792
9/19/2002	--	127	--	--	7.3	279	757
12/11/2002	--	127	--	--	7.2	275	729
3/11/2003	--	127	--	--	7.2	296	773
6/4/2003	--	138	--	--	7.4	301	765
9/16/2003	361	144	19.3	--	7.2	285	788
12/17/2003	--	148	--	--	7.3	277	787
3/18/2004	--	141	--	--	7.2	331	766
6/16/2004	--	156	--	--	7.1	340	816
9/15/2004	--	160	--	--	7.9	325	855
12/15/2004	195	154	21.6	--	7.5	341	773
3/30/2005	200	157	22.6	--	7.1	320	878
6/15/2005	--	154	--	--	7.9	326	827
9/15/2005	--	147	--	--	7.2	326	753
12/5/2005	--	145	--	--	7.1	313	707
3/6/2006	--	150	--	--	7.0	299	740
6/13/2006	173	149	16.4	--	7.1	302	860
9/11/2006	--	142	--	--	7.2	290	880
12/4/2006	--	155	--	--	7.1	330	713
3/5/2007	189	148	14.2	--	7.1	322	833
6/18/2007	156	145	14.6	--	6.9	312	833
9/10/2007	192	145	15.2	--	7.1	326	707
12/11/2007	255	142	9.75	--	7.1	276	680
3/4/2008	211	141	12.8	--	7.0	307	760
6/10/2008	123	116	13.7	--	7.0	311	807

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 4
Lockwood Hills LLC

MW-8908D
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	253	175	25.7	TBD	7.0 - 7.5	331	971
9/8/2008	90.9	104	13	--	7.0	295	667
12/1/2008	180	139	11.5	--	7.0	311	420
3/9/2009	241	152	12.3	--	7.0	304	807
6/16/2009	278	147	13.8	--	6.9	308	813
9/1/2009	201	153	14.8	--	7.1	346	895
12/7/2009	231	151	12.1	--	7.0	307	773
3/9/2010	189	174	<i><10</i>	--	6.9	327	887
6/7/2010	923	152	14.6	--	6.9	297	847
9/14/2010	194	141	16.3	--	6.7	315	807
12/13/2010	166	159	17.1	--	7.0	310	1050
3/8/2011	158	151	20.9	--	6.9	346	847
6/14/2011	178	144	20.6	--	6.9	316	927
9/27/2011	230	153	23.3	--	6.9	340	852
12/21/2011	204	155	19.6	--	6.4	317	850
3/13/2012	210	159	20.8	--	7.0	332	830
6/27/2012	206	154	19.8	--	7.1	373	840
8/28/2012	228	146	17.9	--	7.1	331	940
10/10/2012	223	144	13.8	--	7.0	304	750
2/5/2013	227	142	15.6	--	8.0	300	800
4/16/2013	219	151	14.9	--	7.1	286	800
7/16/2013	211	138	17.0	--	--	341	775
10/9/2013	245	180	17.9	--	7.2	330	785
1/20/2014	144	104	16.4	--	7.2	363	880
4/7/2014	207	158	16.6	--	6.9	353	840
7/7/2014	193	214	18.1	--	7.1	357	895
10/20/2014	215	150	18.4	--	6.9	353	840
3/23/2015	198	221	17.8	--	7.0	334	845
6/24/2015	192	208	19.1	--	7.3	360	860
9/28/2015	197	161	19.1	--	7.2	382	850
11/18/2015	228	150	17.5	--	7.0	356	810
3/15/2016	227	164	19.1	--	7.3	348	865
6/13/2016	210	158	19.9	--	7.1	309	870
9/14/2016	278	153	20.1	--	7.4	330	880
12/6/2016	242	124	19.6	--	7.3	311	865
3/30/2017	262	156	19.1	--	7.4	330	820
6/29/2017	131	61.5	16.8	--	7.1	285	805
9/20/2017	240	174	17.5	--	7.3	311	885
12/27/2017	228	152	14.1	--	7.4	260	825

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 4
Lockwood Hills LLC

MW-8908D
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	253	175	25.7	TBD	7.0 - 7.5	331	971
3/29/2018	221	150	12.8	--	6.8	242	890
6/21/2018	230	158	17.2	--	7.1	297	835
9/26/2018	233	140	16.8	--	7.3	317	940
12/12/2018	245	184	13.5	--	7.3	265	855
3/18/2019	236	153	16.5	<0.5	6.9	316	680
6/19/2019	210	165	16.3	<0.2	7.2	298	700
9/18/2019	244	163	16.1	<0.2	7.8	298	910
11/20/2019	258	167	15.4	<0.2	7.1	321	825
3/11/2020	245	159	15.7	<0.2	7.0	331	765
6/24/2020	221	153	15.4	<0.2	7.2	335	905
9/23/2020	233	151	16.2	0.21	7.3	319	905
12/7/2020	257	155	15.5	0.2	6.9	304	755

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 5
Lockwood Hills LLC

MW-8909SH
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	365	35.7	2.75	1.29	7.5 - 8.5	153	442
10/31/1989	210	--	--	--	8.4	--	--
11/15/1989	240	--	--	--	7.9	--	--
12/22/1989	240	--	--	--	6.9	--	--
1/5/1990	250	33.1	--	--	8.0	139	386
4/19/1990	--	31.5	--	--	8.1	123	370
7/11/1990	290	27.0	--	--	8.2	93.5	360
10/24/1990	320	27.1	--	--	8.0	98.7	351
1/30/1991	240	31.0	--	--	8.3	64.6	355
10/10/1991	300	24.9	--	--	7.9	97.9	325
1/10/1992	260	27.1	--	--	7.6	96.1	318
4/7/1992	240	24.4	--	--	8.2	113	319
7/8/1992	--	18.0	--	--	8.1	118	325
10/14/1992	--	22.3	--	--	8.0	112	330
1/18/1993	--	20.6	--	--	7.7	119	322
4/8/1993	210	--	--	--	8.5	109	335
7/13/1993	--	18.0	--	--	8.1	225	--
10/19/1993	--	29.0	--	--	7.9	78.4	--
1/13/1994	--	28.0	--	--	7.9	119	334
4/7/1994	--	29.4	--	--	7.9	116	350
7/12/1994	220	21.8	--	--	8.0	114	345
10/6/1994	--	24.1	--	--	7.9	112	338
1/10/1995	--	53.1	--	--	7.9	125	410
4/11/1995	--	31.3	--	--	7.9	137	267
7/11/1995	220	32.1	--	--	7.7	127	351
10/11/1995	--	26.8	--	--	8.0	116	347
1/4/1996	210	30.1	--	--	8.5	150	326
4/8/1996	--	57.5	--	--	8.0	163	412
7/10/1996	--	38.9	--	--	7.7	129	373
10/9/1996	--	23.9	--	--	8.2	130	362
1/14/1997	--	31.0	--	--	8.2	124	351
4/9/1997	240	35.2	--	--	8.1	140	382
7/15/1997	--	37.2	--	--	7.9	135	387
10/2/1997	--	41.5	--	--	7.9	--	408
1/13/1998	--	35.8	--	--	7.9	131	382
4/7/1998	--	54.6	--	--	7.9	112	398
7/16/1998	237	36.6	--	--	8.0	112	7129
10/6/1998	--	36.7	--	--	7.7	111	342
1/12/1999	--	36.7	--	--	8.0	119	346

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 5
Lockwood Hills LLC

MW-8909SH
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	365	35.7	2.75	1.29	7.5 - 8.5	153	442
4/6/1999	--	35.5	--	--	8.0	138	422
7/14/1999	--	47.5	--	--	7.9	141	346
10/6/1999	238	33.9	--	--	7.7	127	321
1/11/2000	237	32.1	--	--	8.0	155	326
4/5/2000	--	35.0	--	--	8.0	155	351
7/11/2000	--	30.0	--	--	7.5	119	343
10/4/2000	--	33.4	--	--	8.0	136	343
1/10/2001	--	32.1	--	--	8.0	147	369
6/12/2001	256	33.7	--	--	7.9	130	377
9/5/2001	--	24.4	--	--	7.7	123	336
12/4/2001	--	31.5	--	--	7.7	123	351
3/12/2002	--	22.3	--	--	8.1	101	337
6/25/2002	248	22.6	--	--	7.9	106	345
9/18/2002	--	26.3	--	--	8.0	112	316
12/10/2002	--	31.4	--	--	8.0	131	369
3/12/2003	--	26.7	--	--	8.1	122	350
6/3/2003	--	25.0	--	--	8.0	114	303
9/16/2003	258	23.3	<i>3.45</i>	--	7.8	120	300
12/17/2003	--	31.8	--	--	8.2	119	326
3/18/2004	--	25.7	--	--	7.9	134	288
6/17/2004	--	32.6	--	--	8.0	124	348
9/15/2004	--	24.7	--	--	7.8	105	320
12/14/2004	245	26.6	<i>2.89</i>	--	7.9	132	328
3/29/2005	213	27.3	2.51	--	8.0	--	339
6/15/2005	--	28.6	--	--	8.1	115	335
9/15/2005	--	32.2	--	--	8.0	131	347
12/5/2005	--	29.2	--	--	7.7	121	321
3/7/2006	--	31.7	--	--	8.0	125	324
6/13/2006	230	27.9	2.02	--	7.5	110	344
9/12/2006	--	24.4	--	--	8.0	105	308
12/5/2006	--	26.4	--	--	7.9	104	276
3/6/2007	235	25.9	1.91	--	7.5	103	301
6/19/2007	201	23.5	2.02	--	7.9	97.5	299
9/11/2007	216	22.5	2.15	--	8.0	104	260
12/11/2007	300	27.0	1.83	--	8.0	96	291
3/4/2008	249	22.1	1.96	--	7.8	97.1	281
6/11/2008	203	22.9	1.43	--	7.8	97.7	304
9/9/2008	128	18.5	1.87	--	8.1	91.3	297

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 5
Lockwood Hills LLC

MW-8909SH
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	365	35.7	2.75	1.29	7.5 - 8.5	153	442
12/2/2008	215	24.4	2.06	--	7.9	101	252
3/10/2009	251	18.9	2.01	--	8.0	91.7	269
6/16/2009	374	22.3	2.11	--	8.0	93.9	282
9/2/2009	237	21.4	2.42	--	7.3	98.4	293
12/8/2009	258	23.3	3.09	--	7.9	88.9	267
3/10/2010	213	21.3	<i><1</i>	--	8.0	92.2	311
6/8/2010	228	22.3	<i><10</i>	--	8.0	82.8	321
9/15/2010	214	22.3	<i><10</i>	--	7.9	85.7	300
12/15/2010	223	23.3	<i><10</i>	--	8.0	83.5	339
3/9/2011	195	21.1	<i><10</i>	--	7.7	93.3	310
6/15/2011	234	20.8	<i><10</i>	--	8.0	81.8	297
9/27/2011	240	22.7	2.40	--	8.0	98.1	282
12/20/2011	204	21.3	1.71	--	7.8	94.7	305
3/13/2012	226	22.6	1.97	--	7.7	95.8	310
6/27/2012	222	22.2	1.74	--	8.1	105	280
8/28/2012	217	20.5	1.81	--	8.1	101	400
10/10/2012	223	24.8	1.74	--	8.0	98.2	225
2/5/2013	256	24.7	1.79	--	8.1	99.6	325
4/16/2013	238	24.2	1.78	--	7.8	97.9	350
7/16/2013	227	26.1	1.87	--	7.7	99.6	275
10/9/2013	233	21.2	2.18	--	7.8	99.4	275
1/20/2014	217	24.7	1.87	--	8.0	111	335
4/7/2014	211	35.1	1.93	--	7.6	109	335
7/7/2014	228	26.4	1.99	--	7.9	107	295
10/20/2014	229	27.3	1.83	--	7.4	101	320
3/24/2015	226	26.4	1.89	--	7.9	113	410
6/24/2015	210	23.6	<i><2</i>	--	7.9	99.6	330
9/28/2015	201	26.1	2.39	--	7.4	116	270
11/18/2015	247	26.2	2.46	--	8.1	115	285
3/15/2016	250	29.7	2.28	--	7.9	121	295
6/13/2016	224	27.1	<i><2</i>	--	7.6	106	335
9/14/2016	250	28.2	<i><2</i>	--	7.5	103	345
12/6/2016	244	25.5	<i><2</i>	--	7.8	110	400
3/30/2017	271	30.2	<i><2</i>	--	8.2	126	355
6/29/2017	281	22.0	2.15	--	7.7	122	275
9/20/2017	250	29.4	<i><2</i>	--	7.5	108	355
12/27/2017	231	28.8	<i><2</i>	--	7.8	117	320
3/28/2018	233	28.4	<i><2</i>	--	8.1	118	415

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 5
Lockwood Hills LLC

MW-8909SH
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	365	35.7	2.75	1.29	7.5 - 8.5	153	442
6/20/2018	248	28.5	<2	--	7.1	115	265
9/26/2018	261	28.0	<2	--	7.5	107	305
12/12/2018	258	27.0	<2	--	9.2	115	375
3/18/2019	244	29.4	<2	<i>1.15</i>	8.0	110	205
6/19/2019	224	26.1	<2	<i>0.69</i>	7.7	105	285
9/18/2019	253	29.3	<2	<i>0.83</i>	7.8	103	345
11/20/2019	261	32.4	<2	<i>0.90</i>	7.7	110	290
3/11/2020	266	29.3	<2	<i>0.77</i>	7.9	120	270
6/24/2020	242	28.3	<2	<i>0.95</i>	7.6	117	305
9/23/2020	245	28.1	<2	<i>0.9</i>	8.1	119	360
12/7/2020	261	32.8	<2	<i>0.82</i>	7.3	121	215

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 6
Lockwood Hills LLC

MW-8909D
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	877	49.5	5.52	1.26	8.6 - 9.6	127	540
10/31/1989	810	--	--	--	9.4	--	--
11/15/1989	550	--	--	--	9.0	--	--
12/22/1989	840	--	--	--	8.4	--	--
1/5/1990	690	19.6	--	--	8.8	171	553
4/19/1990	--	32.5	--	--	9.2	128	581
7/11/1990	840	23.8	--	--	9.4	188	475
10/24/1990	900	13.5	--	--	9.3	110	436
1/30/1991	820	21.6	--	--	9.2	161	511
4/26/1991	810	4.86	--	--	9.3	89.2	485
7/11/1991	83	20.1	--	--	9.1	102	454
10/10/1991	790	18.6	--	--	9.0	100	427
1/10/1992	820	18.1	--	--	9.1	20	462
4/7/1992	770	5.79	--	--	9.1	14.8	381
7/8/1992	--	9.77	--	--	9.2	67.8	505
10/14/1992	--	12.5	--	--	9.2	86.6	486
1/18/1993	--	7.11	--	--	9.0	89.1	490
4/8/1993	680	9.05	--	--	9.6	95.2	479
7/13/1993	--	5.18	--	--	9.1	89.2	--
10/20/1993	--	15.6	--	--	8.8	57.4	--
1/14/1994	--	5.08	--	--	8.9	92.7	454
4/7/1994	--	4.2	--	--	8.9	91	460
7/13/1994	750	3.69	--	--	8.9	91.4	453
10/6/1994	--	4.96	--	--	9.0	95.1	476
1/9/1995	--	9.23	--	--	8.8	127	498
4/11/1995	--	3.12	--	--	9.1	104	521
7/11/1995	240	56.3	--	--	8.8	114	468
10/12/1995	--	4.3	--	--	9.1	104	467
1/4/1996	650	50.6	--	--	7.9	189	478
4/9/1996	--	5.47	--	--	9.1	125	430
7/10/1996	--	4.28	--	--	8.9	110	472
10/8/1996	--	3.42	--	--	9.2	120	460
1/14/1997	--	3.11	--	--	9.1	115	460
4/9/1997	780	3.2	--	--	9.1	114	484
7/15/1997	--	3.86	--	--	9.0	104	475
10/2/1997	--	4.59	--	--	8.9	100	480
1/13/1998	--	3.01	--	--	9.0	115	455
4/7/1998	--	3	--	--	9.0	110	466
7/15/1998	709	4.31	--	--	9.2	107	482

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Table 6
Lockwood Hills LLC

MW-8909D
(Downgradient)

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CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	877	49.5	5.52	1.26	8.6 - 9.6	127	540
10/6/1998	--	124	--	--	9.2	89	546
4/6/1999	--	18.5	--	--	9.2	101	572
7/14/1999	--	17.3	--	--	9.2	152	716
10/5/1999	892	28.4	--	--	9.0	313	684
1/10/2000	844	67.1	--	--	9.3	248	628
4/5/2000	--	13.1	--	--	9.1	122	555
7/11/2000	--	49	--	--	8.2	102	580
10/2/2000	--	53.6	--	--	8.6	112	513
1/10/2001	--	14.8	--	--	9.1	111	624
6/13/2001	895	43.2	--	--	9.1	237	855
9/5/2001	--	34	--	--	9.1	107	768
12/4/2001	--	36.4	--	--	9.0	140	624
3/12/2002	--	30.4	--	--	9.1	122	622
6/25/2002	854	36.5	--	--	9.2	69.1	722
9/19/2002	--	33.4	--	--	9.2	72.4	780
12/10/2002	--	17	--	--	9.2	116	801
3/12/2003	--	50.5	--	--	9.2	122	989
6/4/2003	--	18.6	--	--	9.2	132	582
9/16/2003	991	12.4	5.71	--	8.7	87.6	477
12/17/2003	--	24.7	--	--	9.2	118	604
3/18/2004	--	57.8	--	--	9.1	149	508
6/17/2004	--	17	--	--	9.1	131	680
9/14/2004	--	19.5	--	--	9.1	127	747
12/14/2004	776	15.8	5.88	--	9.0	205	780
3/30/2005	839	18.5	7.73	--	9.1	106	667
6/14/2005	--	21.5	--	--	9.1	130	582
9/14/2005	--	11.1	--	--	9.0	112	700
12/6/2005	--	31.4	--	--	8.9	151	564
3/7/2006	--	19.3	--	--	9.1	97.6	669
6/13/2006	749	36.3	4.16	--	9.2	90.8	929
9/13/2006	--	19.5	--	--	9.1	94.4	622
12/5/2006	--	33.4	--	--	9.1	102	440
3/7/2007	710	59.1	4.17	--	8.9	101	544
6/20/2007	756	39.5	5.08	--	9.0	91.6	480
9/11/2007	1200	21.2	5.31	--	9.1	101	513
12/11/2007	881	16.3	4.1	--	9.1	85.8	569
3/4/2008	860	23.7	4.88	--	8.9	109	491
6/13/2008	697	59.3	4.04	--	9.0	100	451

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MW-8909D
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	877	49.5	5.52	1.26	8.6 - 9.6	127	540
9/10/2008	596	88.4	4.22	--	9.0	82.2	447
12/3/2008	700	44.2	4.36	--	8.9	110	409
3/10/2009	787	49.6	4.48	--	9.1	86.3	518
6/17/2009	1340	24.5	4.73	--	9.0	91.6	481
9/3/2009	564	7.69	5.69	--	8.1	83.4	455
12/9/2009	826	9.56	4.16	--	9.0	93.8	462
3/10/2010	763	13	3.65	--	9.1	98.8	540
6/8/2010	795	9.37	<10	--	9.1	85.8	489
9/15/2010	842	4.91	<10	--	9.0	84.3	442
12/15/2010	574	4.4	<10	--	8.8	75.8	549
3/9/2011	807	5.18	<10	--	8.9	95.3	477
6/15/2011	522	4.73	<10	--	8.8	60.1	493
9/27/2011	830	5.2	6.3	--	8.9	119	427
12/20/2011	703	12.9	4.34	--	9.0	93.6	610
3/13/2012	690	7.13	5.2	--	8.8	108	515
6/27/2012	807	18.2	4.19	--	9.0	91.7	645
8/28/2012	792	15	4.63	--	8.9	108	710
10/10/2012	624	44.8	3.95	--	9.3	98.2	415
2/5/2013	876/902	5.63/6.1	5.24/5.02	--	9.1/9.1	86.3/88.2	550/495
4/16/2013	479	8.6	5.34	--	8.2	63.8	515
7/16/2013	847	33.6	4.11	--	9.3	81.8	460
10/9/2013	758/840	9.62/10.4	4.76/10	--	9.2/9.2	88.9/86.6	515/530
1/20/2014	803/705	5.96/5.69	4.36/4.05	--	9.3/9.3	99/98	630/545
4/7/2014	682/633	13.2/13.1	4.07/4.00	--	9.2/9.2	102/100	565/545
7/7/2014	868	60.5	4.6	--	9.3	91.1	500
10/20/2014	901/909	31.4/33.4	4.29/4.31	--	9.0/9.0	90.1/91	600/775
3/24/2015	741/735	26/26.5	4.32/4.33	--	9.0/9.0	91.4/92.1	600/625
6/24/2015	728/747	32.4/35.5	4.20/4.68	--	9.0/9.0	83.8/97.7	540/570
9/28/2015	813/829	15.7/15.7	4.67/4.79	--	8.9/8.9	98.2/97.1	535/450
11/18/2015	838/839	28/27.1	4.57/4.62	--	8.6/8.6	98.3/99.4	505/460
3/15/2016	805/764	9.2/8.47	4.42/4.44	--	9.0/9.0	103/104	490/460
6/13/2016	791/806	7.42/8.36	4.23/4.31	--	8.9/8.9	81/81.4	470/495
9/14/2016	720/624	9.16/8.15	4.18/4.27	--	9.0/9.0	86.8/83.5	545/525
12/6/2016	765/780	5.56/5.3	4.25/4.38	--	9.3/9.3	94.9/85.7	570/570
3/30/2017	770/728	14.1/14.3	4.5/4.35	--	9.3/9.3	85.6/87.5	505/495
6/29/2017	793/768	7.82/7.64	4.64/4.62	--	8.5/8.5	96.3/99.9	445/485
9/20/2017	510/523	6.97/7.43	4.02/4.20	--	7.9/7.9	63.3/66.8	460/470
12/27/2017	723/709	19.9/18	4.27/4.48	--	9.0/9.0	63.8/69.3	535/535

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Lockwood Hills LLC

MW-8909D
(Downgradient)

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Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	877	49.5	5.52	1.26	8.6 - 9.6	127	540
3/28/2018	858/855	26.6/25.5	4.17/4.16	--	9.0/9.0	87.0 /92.7	865/685
6/20/2018	934/918	90.4/85.2	4.57/3.79	--	9.2	99.0/96.2	570/595
9/26/2018	992/1080	37.7/40.6	4.36/4.27	--	9.1/9.1	91.7/86.5	895/880
12/12/2018	834/812	74.5/75.3	4.19/3.50	--	9.2/9.2	92.8/79.4	1060/935
3/18/2019	960/959	26.3/26.3	4.59/4.57	1.09/1.13	9.0/9.0	91.1/92.2	885/865
6/19/2019	896/904	10.5/10.9	4.18/4.19	0.68/0.69	9.0/9.0	84.4/87.6	715/745
9/18/2019	1060/1130	16/18.2	4.18/4.19	0.81/0.82	9.6/9.6	101/104	695/695
11/20/2019	1050/1050	14.8/13.8	4.34/4.31	0.54/0.73	9.3/9.3	106/106	675/640
3/11/2020	1050/1060	15.1/15.5	4.40/4.45	0.82/0.83	9.1/9.1	106/105	575/670
6/24/2020	1020/1070	12.2/13.6	4.34/4.33	0.92/0.80	8.7/8.7	98.4/98.3	700/630
9/23/2020	891/1000	16.6/21.8	4.47/4.48	0.90/0.89	8.9/8.9	99.6/98.8	790/715
12/7/2020	992/984	11.1/12	4.40/4.38	0.80/0.79	9.7/9.7	93.9/93.3	545/570

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Table 7
Lockwood Hills LLC

MW-8910D
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	1006	17.9	46.6	TBD	7.1 - 7.9	159	498
10/31/1989	830	--	--	--	8.1	--	--
1/5/1990	870	<i>9.07</i>	--	--	8.6	<i>126</i>	<i>395</i>
4/19/1990	--	<i>12.2</i>	--	--	8.5	169	444
7/11/1990	950	<i>12.8</i>	--	--	8.5	121	439
10/24/1990	930	<i>13.8</i>	--	--	8.2	117	417
1/30/1991	870	<i>14.9</i>	--	--	8.1	77.4	410
4/26/1991	860	<i>10.1</i>	--	--	8.3	90.1	393
7/11/1991	900	<i>10.0</i>	--	--	8.3	118	388
10/10/1991	910	<i>10.2</i>	--	--	8.0	113	340
1/10/1992	--	--	--	--	7.9	106	360
4/7/1992	840	<i>8.79</i>	--	--	8.2	122	357
7/8/1992	--	7.89	--	--	8.2	134	354
10/14/1992	--	9.98	--	--	8.2	133	348
1/18/1993	--	10.3	--	--	8.3	165	413
4/8/1993	780	20.6	--	--	8.2	188	445
7/13/1993	--	18.5	--	--	8.1	306	--
10/19/1993	--	100	--	--	7.7	430	--
1/14/1994	--	69.7	--	--	7.7	355	734
4/7/1994	--	158	--	--	7.7	271	1000
7/12/1994	700	125	--	--	7.6	399	863
10/6/1994	--	146	--	--	7.5	491	908
1/10/1995	--	226	--	--	7.5	859	712
4/11/1995	--	42.5	--	--	7.3	710	1362
7/11/1995	1150	157	--	--	7.6	644	1210
10/12/1995	--	193	--	--	7.6	664	1280
1/4/1996	1340	185	--	--	7.7	700	1320
4/9/1996	--	185	--	--	7.6	672	1160
7/10/1996	--	165	--	--	7.6	587	1070
10/9/1996	--	114	--	--	7.9	540	1010
1/14/1997	--	133	--	--	7.7	545	1050
4/9/1997	1600	148	--	--	7.7	574	1120
7/15/1997	--	148	--	--	7.6	608	1140
10/2/1997	--	195	--	--	7.6	672	1290
1/13/1998	--	200	--	--	7.5	729	1290
4/7/1998	--	167	--	--	7.6	625	1190
7/16/1998	2110	155	--	--	7.7	627	1224
10/6/1998	--	159	--	--	7.4	564	1070
1/12/1999	--	152	--	--	7.7	557	1030

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Lockwood Hills LLC

MW-8910D
(Downgradient)

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	Current Calculated Trigger Value						
	1006	17.9	46.6	TBD	7.1 - 7.9	159	498
4/6/1999	--	136	--	--	7.6	542	999
7/14/1999	--	110	--	--	7.6	448	874
10/6/1999	1650	85.9	--	--	7.7	509	883
1/11/2000	1880	132	--	--	--	584	1040
4/5/2000	--	131	--	--	7.6	573	1030
7/11/2000	--	168	--	--	7.4	642	1150
10/4/2000	--	178	--	--	7.6	714	1280
1/10/2001	--	233	--	--	7.4	842	1460
6/12/2001	3520	207	--	--	7.5	782	1420
9/5/2001	--	287	--	--	7.5	802	1440
12/4/2001	--	201	--	--	7.4	714	1209
3/13/2002	--	182	--	--	7.6	661	1260
6/25/2002	3060	154	--	--	7.6	640	1109
9/18/2002	--	201	--	--	7.5	822	1480
12/10/2002	--	188	--	--	7.5	746	1370
3/12/2003	--	171	--	--	7.6	690	1230
6/3/2003	--	182	--	--	7.6	608	1180
9/16/2003	2750	134	35.8	--	7.5	520	954
12/18/2003	--	116	--	--	7.5	457	824
3/18/2004	--	108	--	--	7.5	479	790
6/17/2004	--	141	--	--	7.5	498	1064
9/15/2004	--	117	--	--	7.8	450	800
12/14/2004	1870	109	24.6	--	7.5	451	753
3/29/2005	1890	100	28.6	--	7.6	--	800
6/14/2005	--	94.7	--	--	7.8	421	753
9/14/2005	--	98.7	--	--	7.7	411	750
12/5/2005	--	110	--	--	7.6	470	720
3/7/2006	--	93.5	--	--	7.6	376	640
6/13/2006	1970	86.7	20.0	--	7.6	360	750
9/12/2006	--	120	--	--	7.5	520	953
12/5/2006	--	104	--	--	7.5	437	713
3/6/2007	1810	80.0	17.1	--	7.3	348	720
6/19/2007	3480	138	29.3	--	7.4	525	940
9/11/2007	3400	141	34.4	--	7.6	605	807
12/11/2007	2800	110	21.2	--	7.9	--	720
3/4/2008	2460	96.3	19.5	--	7.6	379	560
6/11/2008	3330	116	32.7	--	7.3	610	873
9/9/2008	2250	84.9	21.6	--	7.6	399	693

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Table 7
Lockwood Hills LLC

MW-8910D
(Downgradient)

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	Current Calculated Trigger Value						
	1006	17.9	46.6	TBD	7.1 - 7.9	159	498
12/2/2008	2920	100	24.6	--	7.4	479	580
3/10/2009	2820	91.5	20.1	--	7.6	368	700
6/16/2009	6950	194	48.0	--	7.4	764	1127
9/2/2009	5340	165	43.1	--	7.1	674	1165
12/8/2009	3890	122	24.5	--	7.5	429	753
3/10/2010	3110	103	<10	--	7.6	376	805
6/8/2010	3150	97.7	24	--	7.5	417	840
9/15/2010	5560	163	39.7	--	7.3	646	1170
12/15/2010	3510	109	22.5	--	7.6	394	1030
3/9/2011	2490	79.8	18.7	--	7.5	362	657
6/15/2011	2800	83.7	20.6	--	7.6	365	755
9/27/2011	2800	87.5	26.8	--	7.5	412	678
12/20/2011	2240	77.7	16.7	--	7.4	332	645
3/13/2012	1850	66.6	14.4	--	7.3	308	560
6/27/2012	4260	116	29.7	--	7.6	515	902
8/28/2012	2480	75.3	22.1	--	7.7	438	790
10/10/2012	3530	112	24.7	--	7.8	472	790
2/5/2013	3400	92.5	20.6	--	7.6	354	655
4/16/2013	3030	95.5	21.4	--	7.7	364	663
7/16/2013	2570	100.5	21.1	--	7.4	361	655
10/9/2013	4120	123	40.9	--	7.5	546	960
1/20/2014	4000	153	29.1	--	7.6	471	870
4/7/2014	3090	139	26.1	--	7.6	424	760
7/7/2014	4540	142	37.1	--	7.5	533	935
10/20/2014	6350	222	58.5	--	7.2	689	1260
3/24/2015	4140	127	39.5	--	7.6	489	1020
6/24/2015	4130	126	33.4	--	7.7	435	905
9/28/2015	4840	138	48.9	--	7.4	638	1060
11/18/2015	4300	133	41	--	7.7	494	845
3/15/2016	4400	116	34.9	--	7.7	436	815
6/13/2016	3580	96.8	31.4	--	7.7	395	790
9/14/2016	3490	90.7	27.3	--	7.3	347	750
12/6/2016	3250	72.9	24.6	--	7.9	337	775
3/30/2017	2830	81.4	24.9	--	8.0	363	690
6/29/2017	3160	62.7	26.2	--	7.4	368	635
9/20/2017	3280	88.1	26.8	--	7.8	366	745
12/27/2017	2840	82.1	25.4	--	7.9	343	675
3/28/2018	2320	73.8	20.7	--	7.6	283	685

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

**Table 7
Lockwood Hills LLC**

**MW-8910D
(Downgradient)**

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	1006	17.9	46.6	TBD	7.1 - 7.9	159	498
6/20/2018	2530	70.5	22.3	--	--	315	490
9/26/2018	3050	76.8	24.0	--	7.8	314	645
12/12/2018	3340	77.8	28.3	--	7.4	319	860
3/18/2019	2820	77.7	27.8	<0.5	7.0	332	510
6/19/2019	2620	67.0	24.8	<0.2	8.0	291	515
9/18/2019	3760	98.3	33.4	0.28	7.6	361	710
11/20/2019	2780	72.1	23.9	0.25	7.5	308	530
3/11/2020	2410	63.2	21.5	0.25	7.8	293	545
6/23/2020	2400	59.2	23.2	0.44	8.0	302	610
9/23/2020	2400	66.8	23.1	0.40	7.9	318	660
12/7/2020	1680	60.2	13.9	0.31	7.5	255	480

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 8
Lockwood Hills LLC

MW-8911SH
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	346	38.0	8.86	TBD	7.0 - 8.7	175	422
10/31/1989	<i>210</i>	--	--	--	7.5	--	--
11/15/1989	<i>200</i>	--	--	--	7.8	--	--
1/5/1990	<i>240</i>	63.9	--	--	7.3	192	446
4/19/1990	--	70.9	--	--	7.9	190	507
7/11/1990	<i>300</i>	82.7	--	--	8.2	169	428
10/24/1990	<i>310</i>	78.7	--	--	7.9	144	380
1/30/1991	<i>240</i>	54.7	--	--	8.1	80.6	367
4/26/1991	<i>240</i>	46.1	--	--	7.7	113	368
7/11/1991	<i>250</i>	43.5	--	--	8.0	151	353
10/10/1991	<i>310</i>	44.8	--	--	7.8	133	343
1/10/1992	<i>250</i>	75.0	--	--	7.4	146	340
4/7/1992	<i>250</i>	206.0	--	--	8.0	147	<10
7/8/1992	--	54.4	--	--	8.1	159	399
10/14/1992	--	37.0	--	--	8.1	158	345
1/18/1993	--	33.7	--	--	7.6	155	339
4/8/1993	<i>210</i>	30.7	--	--	8.5	156	331
7/13/1993	--	29.5	--	--	8.3	160	--
10/19/1993	--	32.2	--	--	8.0	152	312
1/14/1994	--	31.6	--	--	8.3	155	285
4/7/1994	--	31.5	--	--	8.1	160	340
7/12/1994	<i>210</i>	30.3	--	--	8.1	146	316
10/6/1994	--	26.6	--	--	8.2	144	311
1/10/1995	--	29.0	--	--	8.2	149	306
4/11/1995	--	29.5	--	--	8.1	141	309
7/11/1995	<i>220</i>	31.4	--	--	8.0	142	<10
10/12/1995	--	30.4	--	--	8.3	136	327
1/4/1996	<i>210</i>	31.9	--	--	8.2	146	377
4/9/1996	--	29.8	--	--	8.2	154	300
7/10/1996	--	31.8	--	--	8.0	155	322
10/9/1996	--	26.2	--	--	8.4	150	321
1/14/1997	--	29.9	--	--	8.3	151	315
4/9/1997	<i>230</i>	31.0	--	--	8.3	139	322
7/15/1997	--	30.5	--	--	8.3	154	340
10/2/1997	--	31.9	--	--	8.2	156	337
1/13/1998	--	31.7	--	--	8.3	137	332
4/7/1998	--	30.0	--	--	8.4	153	338
7/15/1998	<i>255</i>	33.5	--	--	8.3	158	357
10/5/1998	--	35.0	--	--	8.0	141	327

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 8
Lockwood Hills LLC

MW-8911SH
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	346	38.0	8.86	TBD	7.0 - 8.7	175	422
1/12/1999	--	32.7	--	--	8.4	148	322
4/6/1999	--	32.5	--	--	8.2	151	372
7/14/1999	--	32.2	--	--	8.1	150	325
10/6/1999	246	33.7	--	--	8.1	168	321
1/11/2000	227	32.6	--	--	8.3	157	323
4/5/2000	--	35.6	--	--	8.2	161	307
7/11/2000	--	34.2	--	--	7.9	158	325
10/4/2000	--	33.2	--	--	8.3	153	313
1/11/2001	--	33.3	--	--	8.2	153	329
6/12/2001	236	33.6	--	--	8.0	176	367
9/5/2001	--	34.6	--	--	8.1	159	327
12/4/2001	--	33.6	--	--	8.0	171	368
3/12/2002	--	34.1	--	--	8.0	163	358
6/25/2002	275	34.5	--	--	8.2	165	368
9/18/2002	--	33.4	--	--	8.2	171	323
12/10/2002	--	34.5	--	--	8.2	162	325
3/12/2003	--	31.7	--	--	8.2	175	362
6/3/2003	--	33.0	--	--	8.2	204	397
9/16/2003	260	33.9	6.40	--	8.0	192	357
12/18/2003	--	34.7	--	--	8.2	195	348
3/18/2004	--	34.0	--	--	8.2	177	330
6/16/2004	--	39.4	--	--	8.0	182	345
9/15/2004	--	38.4	--	--	8.0	180	355
12/14/2004	230	41.9	6.95	--	8.1	179	337
3/29/2005	245	41.0	8.13	--	8.1	182	406
6/14/2005	--	39.2	--	--	8.1	181	365
9/14/2005	--	38.5	--	--	8.1	175	369
12/6/2005	--	40.1	--	--	7.9	190	363
3/7/2006	--	36.4	--	--	8.2	187	360
6/13/2006	210	37.9	5.54	--	8.2	174	380
9/12/2006	--	37.8	--	--	8.1	200	369
12/5/2006	--	36.9	--	--	8.0	196	316
3/6/2007	214	38.4	6.15	--	7.6	198	387
6/19/2007	220	35.4	6.22	--	8.0	193	384
9/11/2007	220	39.1	7.18	--	8.2	214	327
12/11/2007	281	38.4	5.99	--	8.1	188	344
3/4/2008	238	37.2	6.30	--	8.3	198	331
6/11/2008	242	38.8	5.38	--	7.9	195	358

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 8
Lockwood Hills LLC

MW-8911SH
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	346	38.0	8.86	TBD	7.0 - 8.7	175	422
9/9/2008	<i>177</i>	40.3	5.99	--	8.1	187	336
12/2/2008	<i>196</i>	38.8	6.82	--	8.1	204	582
3/10/2009	<i>264</i>	40.0	6.28	--	8.1	187	342
6/16/2009	<i>352</i>	40.5	7.38	--	8.1	200	376
9/2/2009	<i>247</i>	40.8	8.92	--	7.9	232	404
12/8/2009	<i>242</i>	42.6	6.46	--	8.1	186	333
3/10/2010	<i>210</i>	36.1	4.46	--	8.1	194	422
6/8/2010	<i>218</i>	39.9	<10	--	8.1	193	422
9/15/2010	<i>293</i>	41.6	<10	--	7.9	197	369
12/15/2010	<i>181</i>	38.7	<10	--	8.1	192	469
3/9/2011	<i>249</i>	41.0	<10	--	8.0	221	408
6/15/2011	<i>234</i>	39.9	<10	--	8.1	189	400
9/27/2011	<i>240</i>	43.0	8.00	--	8.1	184	380
12/20/2011	<i>214</i>	40.0	7.20	--	7.8	205	405
3/13/2012	<i>232</i>	44.0	7.99	--	7.8	212	415
6/27/2012	<i>239</i>	46.0	7.66	--	8.2	228	380
8/28/2012	<i>237</i>	42.6	8.04	--	8.2	225	<i>515</i>
10/10/2012	<i>221</i>	39.7	6.86	--	8.0	214	320
2/5/2013	<i>261</i>	47.7	7.71	--	8.3	194	385
4/16/2013	<i>259</i>	45.7	7.46	--	8.4	196	375
7/16/2013	<i>260</i>	40.4	8.05	--	7.9	213	440
10/9/2013	<i>242</i>	36.6	8.35	--	7.9	211	425
1/20/2014	<i>228</i>	41.8	8.80	--	8.5	211	380
4/8/2014	<i>235</i>	50.2	9.18	--	8.1	228	400
7/8/2014	<i>253</i>	48.0	9.55	--	8.3	237	450
10/21/2014	<i>238</i>	42.6	9.43	--	7.7	226	410
3/24/2015	<i>225</i>	37.8	8.48	--	8.0	221	485
6/24/2015	<i>248</i>	42.2	9.39	--	7.6	244	410
9/28/2015	<i>240</i>	50.8	10.10	--	7.9	258	390
11/18/2015	<i>275</i>	45.1	10.40	--	7.6	251	390
3/15/2016	<i>270</i>	49.2	9.40	--	8.1	241	420
6/13/2016	<i>260</i>	46.9	9.53	--	7.9	231	435
9/14/2016	<i>279</i>	47.7	8.78	--	8.2	224	465
12/6/2016	<i>276</i>	40.7	9.46	--	8.1	228	500
3/30/2017	<i>318</i>	53.4	10.20	--	8.4	248	440
6/29/2017	<i>321</i>	36.5	10.80	--	7.9	271	410
9/20/2017	<i>294</i>	49.7	9.97	--	8.1	252	420
12/27/2017	<i>241</i>	41.2	9.35	--	8.6	233	395

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 8
Lockwood Hills LLC

MW-8911SH
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	346	38.0	8.86	TBD	7.0 - 8.7	175	422
3/29/2018	250	45.0	7.50	--	7.3	200	435
6/21/2018	284	45.6	8.16	--	--	239	455
9/27/2018	318	59.2	10.10	--	7.5	224	350
12/13/2018	304	42.6	9.71	--	8.3	229	400
3/19/2019	294	52.3	9.70	1.18	7.7	217	395
6/20/2019	282	43.9	10.00	0.56	7.5	226	480
9/19/2019	336	62.2	9.22	0.66	8.1	215	460
11/20/2019	313	49.6	9.62	0.63	7.6	216	385
3/12/2020	327	39.7	5.02	0.26	7.7	206	515
6/24/2020	342	47.9	6.37	0.50	7.5	240	575
9/23/2020	329	50.4	10.80	0.75	8.5	232	465
12/8/2020	323	50.4	10.60	0.66	7.4	233	385

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 9
Lockwood Hills LLC

MW-8911D
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	814	55.2	18.6	0.92	7.6 - 8.2	239	498
10/31/1989	750	--	--	--	8.5	--	--
11/15/1989	690	--	--	--	7.9	--	--
4/19/1990	--	44.9	--	--	8.0	172	488
7/11/1990	680	41.4	--	--	8.0	102	467
10/24/1990	680	43.4	--	--	7.9	146	461
1/30/1991	600	43.1	--	--	7.7	92.2	363
4/26/1991	620	44.0	--	--	7.8	122	437
7/11/1991	630	42.2	--	--	7.9	162	475
10/10/1991	680	44.7	--	--	7.8	170	459
1/10/1992	640	45.2	--	--	7.7	146	460
4/7/1992	580	36.9	--	--	7.9	181	441
7/8/1992	--	35.2	--	--	7.7	174	464
10/14/1992	--	42.4	--	--	7.9	183	472
1/18/1993	--	40.2	--	--	7.6	185	476
4/8/1993	550	39.7	--	--	8.2	172	582
7/13/1993	--	36.9	--	--	8.0	178	--
10/19/1993	--	38.1	--	--	7.6	176	--
1/13/1994	--	41.4	--	--	8.0	163	456
4/7/1994	--	43.0	--	--	7.8	181	460
7/12/1994	700	46.9	--	--	7.8	166	464
10/6/1994	--	46.7	--	--	7.7	172	460
1/10/1995	--	43.2	--	--	7.8	188	454
4/11/1995	--	43.7	--	--	7.7	162	456
7/11/1995	530	49.4	--	--	7.7	194	472
10/12/1995	--	52.8	--	--	7.8	195	473
1/4/1996	690	3.8	--	--	9.2	102	475
4/9/1996	--	46.1	--	--	7.8	201	432
7/10/1996	--	48.6	--	--	7.7	204	473
10/9/1996	--	39.1	--	--	8.1	220	510
1/14/1997	--	44.9	--	--	8.0	190	484
4/9/1997	520	46.0	--	--	7.9	193	514
7/15/1997	--	47.3	--	--	7.8	193	507
10/2/1997	--	49.8	--	--	7.8	201	525
1/13/1998	--	53.0	--	--	7.8	233	530
4/7/1998	--	52.5	--	--	7.8	225	534
7/15/1998	608	56.2	--	--	8.0	235	570
10/6/1998	--	55.9	--	--	7.7	215	512
1/12/1999	--	53.0	--	--	7.9	217	500

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 9
Lockwood Hills LLC

MW-8911D
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	814	55.2	18.6	0.92	7.6 - 8.2	239	498
4/6/1999	--	50.3	--	--	7.8	199	499
7/14/1999	--	22.7	--	--	8.1	203	487
10/6/1999	677	40.3	--	--	7.8	217	486
1/11/2000	582	57.2	--	--	7.9	248	531
4/5/2000	--	55.0	--	--	7.8	237	528
7/11/2000	--	75.7	--	--	7.7	241	534
10/4/2000	--	61.3	--	--	7.9	252	546
1/11/2001	--	69.5	--	--	--	264	583
6/12/2001	682	71.1	--	--	7.6	280	608
9/5/2001	--	80.3	--	--	7.7	299	629
12/4/2001	--	62.0	--	--	7.5	207	546
3/12/2002	--	67.7	--	--	7.8	268	615
6/25/2002	881	71.8	--	--	7.9	288	662
9/18/2002	--	77.1	--	--	7.8	322	685
12/10/2002	--	82.4	--	--	7.7	333	652
3/12/2003	--	80.9	--	--	7.8	345	715
6/3/2003	--	81.5	--	--	7.8	383	698
9/16/2003	1140	70.3	13.20	--	7.7	265	605
12/18/2003	--	97.2	--	--	7.7	324	743
3/18/2004	--	64.4	--	--	7.6	278	534
6/16/2004	--	98.3	--	--	7.6	352	722
9/15/2004	--	73.7	--	--	7.9	279	552
12/14/2004	1280	96.0	20.40	--	7.7	376	670
3/29/2005	1120	71.5	14.30	--	7.7	--	650
6/14/2005	--	68.5	--	--	8.0	261	590
9/14/2005	--	81.8	--	--	7.6	330	700
12/6/2005	--	73.3	--	--	7.5	293	575
3/7/2006	--	76.4	--	--	7.7	301	590
6/13/2006	902	65.2	8.77	--	7.4	230	570
9/12/2006	--	63.4	--	--	7.6	247	530
12/5/2006	--	80.2	--	--	6.8	309	545
3/6/2007	1210	77.3	12.80	--	7.4	293	690
6/19/2007	1060	69.9	11.30	--	7.6	270	570
9/11/2007	1100	75.7	14.60	--	7.6	302	515
12/11/2007	1260	74.5	12.10	--	7.7	433	555
3/4/2008	980	63.8	<10	--	7.6	241	573
6/11/2008	677	47.4	<10	--	7.5	250	530
9/9/2008	803	57.9	<10	--	7.7	238	537

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 9
Lockwood Hills LLC

MW-8911D
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	814	55.2	18.6	0.92	7.6 - 8.2	239	498
12/2/2008	976	62.7	<10	--	7.6	245	447
3/10/2009	925	55.9	<10	--	7.7	220	517
6/16/2009	1620	72.3	13.60	--	7.6	294	569
9/2/2009	1320	72.2	14.30	--	7.4	305	647
12/8/2009	1080	63.0	<10	--	7.7	218	497
3/10/2010	1050	69.9	<10	--	7.9	265	640
6/8/2010	927	59.4	<10	--	7.7	211	553
9/15/2010	1180	70.7	11.10	--	7.4	272	615
12/15/2010	1060	64.3	<10	--	7.6	218	660
3/9/2011	919	56.7	<10	--	7.6	238	571
6/15/2011	1150	60.1	<10	--	7.5	247	850
9/27/2011	1300	72.8	13.60	--	7.4	281	601
12/20/2011	1150	62.0	7.53	--	7.2	251	565
3/13/2012	1260	68.5	10.20	--	7.3	269	605
6/27/2012	1520	69.0	9.92	--	7.7	278	553
8/28/2012	1200	62.7	7.37	--	7.5	251	645
10/10/2012	1300	65.1	7.55	--	7.5	240	475
2/5/2013	1240	77.8	10.10	--	7.8	250	580
4/16/2013	1420	68.0	11.70	--	7.8	258	520
7/16/2013	1270	59.2	11.90	--	7.6	270	520
10/9/2013	1310	72.0	13.20	--	7.6	245	545
1/20/2014	1470	64.0	7.54	--	8.0	160	635
4/7/2014	1340	89.3	12.10	--	7.6	288	615
7/7/2014	1490	105	14.10	--	7.7	310	645
10/20/2014	1620	70.0	11.40	--	7.4	243	515
3/24/2015	1210	55.7	10.30	--	7.6	234	635
6/24/2015	1260	78.1	9.55	--	7.6	239	560
9/28/2015	1280	64.8	13.30	--	7.3	296	565
11/18/2015	1730	62.2	11.50	--	7.7	242	565
3/15/2016	1390	60.2	10.10	--	7.8	243	525
6/13/2016	1350	56.9	10.60	--	7.7	249	610
9/14/2016	1310	57.1	9.48	--	7.6	233	590
12/6/2016	1290	47.1	12.90	--	7.9	258	660
3/30/2017	1590	67.2	16.20	--	7.9	305	615
6/29/2017	1940	56.3	16.20	--	7.6	318	620
9/20/2017	1920	68.8	15.40	--	7.9	304	610
12/27/2017	1410	64.8	12.10	--	8.2	247	560
3/28/2018	1290	64.9	10.80	--	7.7	246	490

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 9
Lockwood Hills LLC

MW-8911D
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	814	55.2	18.6	0.92	7.6 - 8.2	239	498
6/20/2018	1470	63.9	<i>12.30</i>	--	--	268	595
9/26/2018	1560	66.6	<i>11.80</i>	--	7.8	243	595
12/12/2018	1330	53.6	<i>11.80</i>	--	7.7	252	640
3/18/2019	1330	59.5	11.00	<i>0.76</i>	7.2	240	480
6/19/2019	1130	52	9.44	<i>0.21</i>	7.6	226	510
9/18/2019	1360	60.8	9.79	<i>0.30</i>	7.5	228	470
11/20/2019	1180	47.5	7.28	<i>0.24</i>	7.5	219	535
3/12/2020	998	39.7	5.02	<i>0.26</i>	7.7	206	515
6/24/2020	1130	47.9	6.37	<i>0.50</i>	7.5	240	575
9/23/2020	1300	48.3	10.80	<i>0.33</i>	7.8	260	575
12/7/2020	1210	45.8	10.80	<i>0.40</i>	7.6	236	525

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 10
Lockwood Hills LLC

MW-8942
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	408	101	11.1	TBD	7.4 - 8.0	295	624
10/16/1989	18900	--	--	--	--	--	--
10/31/1989	520	--	--	--	7.9	--	--
11/15/1989	580	--	--	--	7.9	--	--
1/5/1990	610	32.7	--	--	8.0	203	472
4/19/1990	--	70.6	--	--	7.8	212	570
7/11/1990	570	71.2	--	--	7.7	229	611
10/24/1990	500	78.4	--	--	7.6	196	619
1/30/1991	500	62.8	--	--	7.8	111	592
4/26/1991	490	50.3	--	--	7.6	166	567
7/11/1991	490	71.1	--	--	7.5	254	610
10/10/1991	480	62.8	--	--	7.6	229	576
1/10/1992	--	--	--	--	7.6	224	580
4/7/1992	360	47	--	--	7.7	222	557
7/8/1992	--	44	--	--	7.8	237	545
10/14/1992	--	--	--	--	7.7	247	558
1/18/1993	--	55	--	--	7.6	230	564
4/8/1993	430	54.1	--	--	7.6	251	556
7/13/1993	--	48.3	--	--	7.5	232	--
10/20/1993	--	61.8	--	--	7.6	249	--
1/14/1994	--	62.9	--	--	7.9	242	542
4/8/1994	--	51.8	--	--	7.8	206	544
7/12/1994	260	48.1	--	--	7.7	190	528
10/6/1994	--	47.5	--	--	7.6	189	527
1/10/1995	--	57.8	--	--	7.7	195	518
4/11/1995	--	55.7	--	--	7.4	191	493
7/10/1995	240	56.7	--	--	7.8	179	544
10/11/1995	--	58.4	--	--	7.7	167	537
1/5/1996	260	60.7	--	--	7.6	192	542
4/8/1996	--	58.8	--	--	7.6	210	559
7/10/1996	--	65.5	--	--	7.5	202	540
10/9/1996	--	51.6	--	--	7.7	210	544
1/14/1997	--	62.6	--	--	7.9	198	560
4/9/1997	240	60.7	--	--	7.7	198	563
7/15/1997	--	62.7	--	--	7.7	207	570
10/2/1997	--	66.5	--	--	7.7	205	575
1/13/1998	--	68.2	--	--	7.6	215	553
4/7/1998	--	63.7	--	--	7.9	198	552
7/15/1998	293	71.6	--	--	7.6	213	593

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 10
Lockwood Hills LLC

MW-8942
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	408	101	11.1	TBD	7.4 - 8.0	295	624
10/6/1998	--	64.5	--	--	7.6	194	545
1/12/1999	--	65.4	--	--	7.9	194	554
4/5/1999	--	67.2	--	--	7.7	212	557
7/14/1999	--	71.3	--	--	7.5	230	553
10/6/1999	274	67.5	--	--	7.6	233	510
1/11/2000	251	66.8	--	--	7.7	223	531
4/6/2000	--	68.3	--	--	7.8	227	592
7/11/2000	--	69	--	--	7.6	219	565
10/4/2000	--	70.1	--	--	7.7	235	574
1/11/2001	--	50.3	--	--	7.6	217	546
6/12/2001	273	67.8	--	--	7.7	250	616
9/5/2001	--	78.9	--	--	7.6	251	621
12/4/2001	--	71.1	--	--	7.5	233	604
3/12/2002	--	70.4	--	--	7.7	225	613
6/25/2002	320	73.7	--	--	7.8	239	624
9/18/2002	--	69.9	--	--	7.6	251	626
12/10/2002	--	70.2	--	--	7.6	235	591
3/12/2003	--	73.3	--	--	7.6	313	728
6/3/2003	--	73	--	--	7.8	256	475
9/16/2003	397	72.3	5.51	--	7.4	233	614
12/18/2003	--	82.4	--	--	7.5	244	628
3/18/2004	--	79.1	--	--	7.4	276	666
6/17/2004	--	93.8	--	--	7.4	268	606
9/15/2004	--	79.4	--	--	7.0	255	575
12/14/2004	234	85.4	6.08	--	7.3	253	570
3/30/2005	255	82.9	5.92	--	7.5	252	638
6/14/2005	--	86.7	--	--	7.4	255	665
9/14/2005	--	79.4	--	--	7.5	245	620
12/6/2005	--	81	--	--	7.4	237	515
3/7/2006	--	84.3	--	--	7.4	219	545
6/13/2006	153	87.5	2.48	--	7.4	130	547
9/12/2006	--	93.1	--	--	7.3	150	540
12/5/2006	--	86.2	--	--	7.2	157	473
3/6/2007	140	93.8	3.55	--	7.0	150	540
6/19/2007	143	95.9	3.09	--	7.3	149	563
9/11/2007	174	115	5.97	--	7.3	233	540
12/11/2007	208	139	8.33	--	7.3	291	713
3/4/2008	162	112	4.33	--	7.3	176	450

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 10
Lockwood Hills LLC

MW-8942
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	408	101	11.1	TBD	7.4 - 8.0	295	624
6/12/2008	114	81.2	<2	--	7.2	140	460
9/9/2008	81.3	82.1	3.79	--	7.3	146	490
12/2/2008	136	119	8.32	--	7.2	249	510
3/10/2009	165	120	6.95	--	7.3	261	625
6/16/2009	334	133	5.90	--	7.2	259	642
9/2/2009	165	118	6.12	--	7.1	239	624
12/8/2009	194	130	8.38	--	7.3	246	685
3/10/2010	124	153	<10	--	7.3	264	800
6/8/2010	166	137	<10	--	7.2	245	765
9/15/2010	284	134	<10	--	7.1	262	765
12/16/2010	126	138	<10	--	7.1	249	920
3/10/2011	132	134	<10	--	7.2	297	750
6/15/2011	178	125	<10	--	7.2	235	585
9/27/2011	190	137	9.30	--	7.1	286	697
12/20/2011	164	123	5.60	--	7.1	229	640
3/13/2012	174	105	<5	--	7.1	201	570
6/27/2012	184	118	3.57	--	7.5	204	610
8/28/2012	179	138	7.57	--	7.2	262	830
10/9/2012	168	130	6.42	--	7.2	253	590
2/5/2013	188	155	13.40	--	7.3	326	815
4/16/2013	141	124	7.78	--	7.4	184	510
7/16/2013	230	106	3.37	--	7.7	225	560
10/9/2013	520	106	5.54	--	7.6	217	545
1/21/2014	213	106	3.64	--	7.0	48.7	640
4/8/2014	211	94	4.50	--	7.5	248	630
7/7/2014	219	114	3.65	--	7.5	238	615
10/20/2014	233	79.1	3.13	--	7.5	225	570
3/23/2015	229	87.4	4.57	--	7.3	267	670
6/24/2015	235	77.4	5.00	--	7.6	308	635
9/28/2015	231	88.3	3.69	--	7.4	271	570
11/18/2015	270	82.5	3.39	--	7.6	251	505
3/15/2016	258	82	3.78	--	7.6	249	620
6/13/2016	250	85.3	3.54	--	7.5	246	650
9/14/2016	269	84.9	2.63	--	7.6	231	640
12/6/2016	271	67.8	2.90	--	7.4	242	695
3/30/2017	295	87.1	5.60	--	7.8	280	645
6/29/2017	296	60.9	3.84	--	7.5	285	610
9/20/2017	290	80.9	3.03	--	8.4	261	670

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 10
Lockwood Hills LLC

MW-8942
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	408	101	11.1	TBD	7.4 - 8.0	295	624
12/27/2017	280	72.7	2.80	--	7.5	239	555
3/29/2018	267	73.9	2.94	--	7.3	245	630
6/21/2018	290	81.1	3.47	--	7.1	264	675
9/27/2018	327	78.1	2.94	--	7.0	235	620
12/13/2018	304	66	3.11	--	7.8	242	465
3/19/2019	290	76.4	<5	1.11	7.3	240	500
6/20/2019	263	69.4	3.34	0.39	7.6	230	575
9/19/2019	314	86.7	3.28	0.50	7.5	234	600
11/20/2019	332	79.9	3.82	0.39	7.3	239	615
3/12/2020	327	80	3.35	0.49	7.5	244	575
6/24/2020	304	76	3.44	0.62	7.5	218	675
9/22/2020	307	74.2	3.12	0.57	7.5	252	625
12/8/2020	331	79.6	2.97	0.54	7.5	236	555

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Table 11
Lockwood Hills LLC

MW-1842
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix III Constituents

Sampling Event Date	Total Boron (µg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
	Current Calculated Trigger Value						
	332	226	6.06	0.77	7.0 - 9.2	299	972
3/29/2018	<i>258</i>	<i>276</i>	<i>22.0</i>	--	7.9	322	865
6/21/2018	<i>263</i>	663	7.11	--	8.2	296	660
9/27/2018	<i>258</i>	<i>214</i>	<i>5.80</i>	--	7.6	292	595
12/13/2018	<i>282</i>	<i>103</i>	<i>4.30</i>	--	8.2	211	520
3/28/2019	50	16.7	<2	<0.2	8.8	36.3	60
6/20/2019	161	32.8	2.21	0.59	8.4	256	435
9/19/2019	<i>284</i>	<i>81.9</i>	<2	0.72	8.0	238	405
11/21/2019	<i>299</i>	<i>83.9</i>	<1	0.25	8.3	25.4	535
3/12/2020	<i>258</i>	<i>56.8</i>	<i>2.07</i>	<i>0.64</i>	7.6	262	505
6/24/2020	<i>227</i>	<i>33.0</i>	<i>2.1</i>	<i>0.76</i>	8.0	261	515
9/22/2020	251	43.1	2.01	0.80	7.0	282	580
12/8/2020	286	49.4	<2	0.74	8.0	270	430

1. SSIs = Bold

2. Baseline data used to calculate trigger values in italics and bracketed by thick lines

3. Strikethrough = Data point removed from baseline statistics

Attachment B

**Appendix IV Constituent Groundwater
Monitoring Tables**

**Table 1
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

CCR Appendix IV Constituents														MW-8401 (Background)		
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	5.16	74.9	TBD	Detect	2.94	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	0.009
Calculated Trigger Value																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	Trigger
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	50.0	0.009
4/19/1989	--	<5	55	--	<10	<10	--	--	--	--	--	--	--	--	--	--
4/19/1990	--	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1990	--	5	56	--	<10	<10	--	--	--	--	--	--	--	<10	<10	--
10/24/1990	--	<5	62	--	<10	<10	--	--	--	--	--	--	--	<10	<10	--
1/30/1991	--	<5	57	--	<10	<10	--	--	--	--	--	--	--	<10	<10	--
4/26/1991	--	<5	52	--	<10	<10	--	--	--	--	--	--	--	<10	<10	--
7/11/1991	--	<5	66	--	<20	<20	--	--	--	--	--	--	--	<10	<10	--
10/10/1991	--	<5	62	--	<10	<10	--	--	--	--	--	--	--	<10	<10	--
1/10/1992	--	<2	67	--	<2	<2	--	--	--	--	--	--	--	<3	<3	--
4/7/1992	--	<2	57	--	<2	<2	--	--	--	--	--	--	--	<3	<3	--
7/8/1992	--	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1992	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/15/1993	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1993	--	<2	60	--	<10	<10	--	--	--	--	--	--	--	<15	<15	--
7/13/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/19/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/13/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1994	--	<2	60	--	<20	<20	--	--	--	--	--	--	--	--	--	--
10/6/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/9/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/11/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

**Table 1
Lockwood Hills LLC**

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	CCR Appendix IV Constituents											MW-8401 (Background)				
	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	5.16	74.9	TBD	Detect	2.94	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	0.009	
	Calculated Trigger Value															
	Groundwater Protection Standard															
	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	Trigger
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.009	
7/10/1995	--	<2	55	--	--	<20	--	--	--	--	--	--	--	--	--	--
10/12/1995	--	<2	--	--	--	<20	--	--	--	--	--	--	--	--	--	--
1/5/1996	--	<2	45	--	--	<20	--	--	--	--	--	--	--	--	--	--
4/9/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/9/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/8/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/13/1997	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/10/1997	--	<2	59	--	--	<10	--	--	--	--	--	--	--	--	--	--
5/7/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.3	--	--
7/16/1997	--	<2.1	--	--	--	--	--	--	--	--	--	--	--	<1.3	--	--
10/1/1997	--	<1.5	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--
1/13/1998	--	<1.6	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--
4/7/1998	--	<12.1	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--
7/15/1998	--	<16.7	99.1	--	--	<5.7	--	--	--	--	--	--	--	<1.2	--	--
10/5/1998	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--
1/12/1999	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--
4/6/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--
7/13/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	<2.2	--	--
10/5/1999	--	<15.9	186	--	--	<2.9	--	--	--	--	--	--	--	<1.5	--	--
1/11/2000	--	<15.9	186	--	--	<2.9	--	--	--	--	--	--	--	<1.5	--	--
4/7/2000	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.2	--	--
7/11/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

Table 1
Lockwood Hills LLC

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	MW-8401 (Background)
	Detect	5.16	74.9	TBD	Detect	2.94	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	0.009
	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	Trigger
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.009	
10/2/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	--
1/12/2001	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	--
6/13/2001	--	<14.3	83.8	--	--	<5.3	--	--	--	--	--	--	--	<2.1	--	--
9/5/2001	--	<14.3	--	--	--	--	--	--	--	--	--	--	--	<2.1	--	--
12/4/2001	--	<18	--	--	--	--	--	--	--	--	--	--	--	<1.3	--	--
3/12/2002	--	<6.3	--	--	--	--	--	--	--	--	--	--	--	<6.5	--	--
6/26/2002	--	<6.3	128	--	--	<1.8	--	--	--	--	--	--	--	<6.5	--	--
9/20/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	<8.8	--	--
12/17/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	<8.8	--	--
3/11/2003	--	<8.6	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--	--
6/4/2003	--	<8.6	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--	--
9/16/2003	<9.4	<6.9	60.9	--	<1.1	<1	--	--	--	--	--	--	--	<8	--	--
12/19/2003	--	<6.9	--	--	<1.1	--	--	--	--	--	--	--	--	<8	--	--
3/19/2004	--	<5.4	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--	--
6/16/2004	--	<5.4	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--	--
9/16/2004	--	<5.9	--	--	<0.5	--	--	--	--	--	--	--	--	<7.3	--	--
12/15/2004	<2.1	<5.9	67.2	--	<0.5	3.3	--	--	--	--	--	--	--	<7.3	--	--
3/31/2005	<2.7	<6.7	60.9	--	<2.2	2.9	--	--	--	--	<0.09	--	--	<7.8	--	--
6/13/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	--	--
9/13/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	--	--
12/5/2005	--	<9	--	--	<2.2	--	--	--	--	--	<0.2	--	--	<9	--	--
3/6/2006	--	<9	--	--	<1	--	--	--	--	--	<0.2	--	--	<9	--	--

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**Table 1
Lockwood Hills LLC**

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	CCR Appendix IV Constituents													MW-8401 (Background)		
	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	5.16	74.9	TBD	Detect	2.94	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	0.009
	Calculated Trigger Value															
	Groundwater Protection Standard															
	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	Trigger
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.009	0.009
6/13/2006	<3	<10	56.5	--	<2	<1	--	--	--	--	<0.2	--	--	<10	--	--
9/11/2006	--	<10	--	--	<2	--	--	--	--	--	<0.2	--	--	<10	--	--
12/4/2006	--	<8	--	--	<1	--	--	--	--	--	<0.08	--	--	<8	--	--
3/5/2007	--	<8	--	--	<1	--	--	--	--	--	<0.08	--	--	<8	--	--
6/18/2007	--	<9	--	--	<1	--	--	--	--	--	<0.1	--	--	11.2	--	--
9/10/2007	2.1	<9	55.4	--	<1	<1	--	--	--	--	<0.1	--	--	<5	--	--
12/11/2007	--	8.8	--	--	0.91	--	--	--	--	--	0.09	--	--	<7	--	--
3/4/2008	<2.8	<7.3	57.6	--	<0.6	<1.1	--	--	--	--	<0.06	--	--	8.5	--	--
6/10/2008	<2.3	<9.7	53.9	--	<1.3	2.2	--	--	--	--	<0.1	--	--	<10	--	--
9/8/2008	<2.3	<9.7	54.4	--	<1.3	<1.1	--	--	--	--	<0.02	--	--	<10	--	--
12/3/2008	<3.1	<9.5	69.9	--	<0.9	3.7	--	--	--	--	<0.02	--	--	<5.7	--	--
3/10/2009	<3.1	<9.5	55	--	<0.9	9.9	--	--	--	--	<0.02	--	--	<5.7	--	--
6/16/2009	--	<3.5	--	--	<0.7	--	--	--	--	--	<0.02	--	--	<6.8	--	--
9/2/2009	--	<3.5	--	--	<0.7	--	--	--	--	--	<0.01	--	--	7.4	--	--
12/8/2009	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.01	--	--	<7.2	--	--
3/9/2010	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.02	--	--	<7.2	--	--
6/7/2010	<2.7	<6.1	56.4	--	<0.6	<0.8	--	--	--	--	<0.02	--	--	<7.9	--	--
9/14/2010	--	<6.1	--	--	<0.6	--	--	--	--	--	<0.02	--	--	<7.9	--	--
12/16/2010	--	<5.9	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.7	--	--
3/9/2011	--	<9.6	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.3	--	--
6/14/2011	--	<9.6	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.3	--	--
9/27/2011	<6.8	<5.6	70	--	<0.33	<0.87	--	--	--	--	<0.12	--	--	<8.7	--	--

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Table 1
Lockwood Hills LLC

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	MW-8401 (Background)
	Detect	5.16	74.9	TBD	Detect	2.94	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	0.009
	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	Trigger	
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.009	
12/21/2011	<1.14	<2.2	52	--	0.23	<5	--	--	--	--	<0.098	--	--	<1.52	--	
3/13/2012	--	5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
6/27/2012	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
8/28/2012	--	5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
10/10/2012	--	<5	60.1	--	<5	<5.1	--	--	--	--	<0.2	--	--	<5	--	
2/5/2013	<1.1	<2.2	56.7	--	<5	<5.1	--	--	--	--	<0.15	--	--	<1.5	--	
4/16/2013	--	8.97	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
7/16/2013	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
10/9/2013	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
1/20/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
4/8/2014	<2.0	<5	62.5	--	<5	<5	--	--	--	--	1.7	--	--	<5	--	
7/7/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
10/21/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
6/24/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
9/28/2015	<3.7	<5	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	
11/18/2015	--	5.04	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
3/15/2016	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
6/13/2016	--	6.94	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
9/14/2016	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
12/16/2016	<2.7	<5	60.1	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	
3/30/2017	<2.7	<5	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	
6/29/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	

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Table 1
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data

MW-8401
(Background)

CCR Appendix IV Constituents																
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	5.16	74.9	TBD	Detect	2.94	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	0.009
Calculated Trigger Value																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	Trigger
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	50.0	0.009
9/20/2017	--	5.34	--	<5	--	--	--	--	--	--	<0.2	--	--	<5	--	--
12/26/2017	--	<5	--	<5	--	--	--	--	--	--	<0.2	--	--	<5	--	--
3/28/2018	--	<5	--	<5	--	--	--	--	--	--	<0.2	--	--	<5	--	--
6/21/2018	<1.86	<40	57.9	--	<5	<10	--	--	--	--	<0.2	--	--	<5	--	--
9/26/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
12/12/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/18/2019	--	6.11	--	<0.002	<5	--	<0.002	<0.2	<0.005	<0.02	<0.2	<0.01	<1.68	<5	<0.008	<0.008
6/19/2019	--	<5	--	<0.002	<5	--	<0.002	<0.2	<0.005	<0.02	<0.2	<0.01	<1.52	<5	<0.008	<0.008
9/18/2019	<6.7	<5.3	63.3	<0.001	<5	<10	<0.001	<0.2	<0.005	<0.037	<0.2	<0.01	<1.51	<5	<0.0051	<0.0051
11/20/2019	--	<5	--	<0.001	<5	--	<0.001	<0.2	<0.005	<0.037	<0.2	<0.01	<1.23	<5	<0.0051	<0.0051
3/11/2020	--	<5	--	<0.001	<5	--	<0.001	<0.2	<0.005	<0.037	<0.2	<0.01	<1.41	<5	<0.0051	<0.0051
6/24/2020	--	<5	--	<0.001	<5	--	<0.001	<0.2	<0.005	<0.037	<0.2	<0.01	<1.56	<5	0.010	0.010
9/23/2020	<6.7	<10	58.5	<0.001	<5	<10	<0.001	<0.2	<0.005	<0.041	<0.2	<0.01	<2.43	<5	<0.0051	<0.0051
12/7/2020	--	<5	--	0.001	<5	--	<0.001	<0.2	<0.005	<0.037	<0.2	<0.01	<2.51	<5	0.009	0.009

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Table 2
Lockwood Hills LLC
MW-8404
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)		
	Detect	6.67	77.9	Detect	Detect	Detect	3.71	TBD	0.25	Detect	Detect	Detect	Detect	Detect	Detect	TBD	
Calculated Background																	
Groundwater Protection Standard																	
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL	
6.0	10.0	2000	0.004	5.0	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002		
4/19/1989	--	<5	47	--	--	<10	--	--	--	--	--	--	--	--	--	--	--
4/19/1990	--	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1990	--	<5	110	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--
10/24/1990	--	<5	110	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--
1/30/1991	--	<5	160	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--
4/26/1991	--	<5	130	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--
7/11/1991	--	<5	130	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--
10/10/1991	--	<5	110	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--
1/10/1992	--	<2	120	--	--	<2	--	--	--	--	--	--	--	--	<3	--	--
4/7/1992	--	<2	170	--	--	<2	--	--	--	--	--	--	--	--	<3	--	--
7/8/1992	--	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1992	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/15/1993	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1993	--	<2	100	--	--	<10	--	--	--	--	--	--	--	--	<15	--	--
7/13/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/19/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/13/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1994	--	<2	73	--	--	<20	--	--	--	--	--	--	--	--	--	--	--
10/6/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/9/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/11/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Table 2
Lockwood Hills LLC
MW-8404
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)		
	Detect	6.67	77.9	Detect	Detect	3.71	TBD	0.25	Detect	Detect	Detect	Detect	Detect	Detect	Detect	TBD	
Calculated Background																	
Groundwater Protection Standard																	
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL	
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002		
7/11/1995	--	<2	85	--	--	<20	--	--	--	--	--	--	--	--	--	--	--
10/12/1995	--	<2	--	--	--	<20	--	--	--	--	--	--	--	--	--	--	--
1/4/1996	--	<2	49	--	--	<20	--	--	--	--	--	--	--	--	--	--	--
4/9/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/10/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/8/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/14/1997	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/10/1997	--	<2	45	--	--	<10	--	--	--	--	--	--	--	--	--	--	--
5/7/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/16/1997	--	<2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/1/1997	--	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/13/1998	--	<16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1998	--	<12.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/15/1998	--	<16.7	49.5	--	--	<5.7	--	--	--	--	--	--	--	--	--	--	--
10/6/1998	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	1.3	--	--	--
1/12/1999	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--	--
4/5/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	1.8	--	--	--
7/13/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	<2.2	--	--	--
10/6/1999	--	<15.9	58.7	--	--	<2.9	--	--	--	--	--	--	--	<1.5	--	--	--
1/11/2000	--	<15.9	45.6	--	--	<2.9	--	--	--	--	--	--	--	<1.5	--	--	--
4/6/2000	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.2	--	--	--
7/11/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
 2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
 3. Strikethrough = Data removed from baseline
 4. Grayed out = Data previously used but replaced

Table 2
Lockwood Hills LLC
MW-8404
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	6.67	77.9	Detect	Detect	3.71	TBD	0.25	Detect	Detect	Detect	Detect	Detect	Detect	Detect	TBD
Calculated Background																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
10/2/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
1/12/2001	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
6/13/2001	--	<14.3	49	--	--	<5.3	--	--	--	--	--	--	--	--	<2.1	--
9/5/2001	--	<14.3	--	--	--	--	--	--	--	--	--	--	--	--	<2.1	--
12/4/2001	--	<18	--	--	--	--	--	--	--	--	--	--	--	--	<1.3	--
3/12/2002	--	<6.3	--	--	--	--	--	--	--	--	--	--	--	--	7	--
6/27/2002	--	<6.3	44	--	--	2	--	--	--	--	--	--	--	--	<6.5	--
9/20/2002	--	19.7	--	--	--	--	--	--	--	--	--	--	--	--	<8.8	--
12/17/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	--	<8.8	--
3/11/2003	--	<8.6	--	--	<1.1	--	--	--	--	--	--	--	--	--	<8.1	--
6/4/2003	--	<8.6	--	--	<1.1	--	--	--	--	--	--	--	--	--	<8.1	--
9/16/2003	<9.4	<6.9	54	--	<1.1	<1	--	--	--	--	--	--	--	--	<8	--
12/19/2003	--	<6.9	--	--	<1.1	--	--	--	--	--	--	--	--	--	<8	--
3/17/2004	--	6.2	--	--	<0.8	--	--	--	--	--	--	--	--	--	<7.2	--
6/16/2004	--	<5.4	--	--	<0.8	--	--	--	--	--	--	--	--	--	<7.2	--
9/16/2004	--	<5.9	--	--	<0.5	--	--	--	--	--	--	--	--	--	<7.3	--
12/15/2004	<2.1	<5.9	58.6	--	<0.5	2.9	--	--	--	--	--	--	--	--	<7.3	--
3/30/2005	<2.7	<6.7	63.1	--	<2.2	2.7	--	--	--	--	<0.09	--	--	--	<7.8	--
6/13/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	--	<7.8	--
9/14/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	--	<7.8	--
12/5/2005	--	<9	--	--	<2.2	--	--	--	--	--	<0.2	--	--	--	<9	--
3/6/2006	--	<9	--	--	<1	--	--	--	--	--	<0.2	--	--	--	<9	--

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

Table 2
Lockwood Hills LLC
MW-8404
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data															
CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	6.67	77.9	Detect	Detect	3.71	TBD	0.25	Detect	Detect	Detect	Detect	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
6/13/2006	<3	<10	48.9	--	<2	1.2	--	--	--	<0.2	--	--	--	10.2	--
9/11/2006	--	<10	--	--	<2	--	--	--	--	<0.2	--	--	--	<10	--
12/4/2006	--	<8	--	--	<1	--	--	--	--	<0.08	--	--	--	<8	--
3/5/2007	--	<8	--	--	<1	--	--	--	--	<0.08	--	--	--	10.9	--
6/18/2007	--	<9	--	--	<1	--	--	--	--	0.14	--	--	--	18.5	--
9/11/2007	4-6	<9	64.2	--	<1	2	--	--	--	<0.1	--	--	--	<5	--
12/11/2007	--	8.2	--	--	1.1	--	--	--	--	0.09	--	--	--	12.5	--
3/4/2008	<2.8	<7.3	53.1	--	<0.6	<1.1	--	--	--	<0.06	--	--	--	<7	--
6/10/2008	<2.3	<9.7	38.6	--	<1.3	1.5	--	--	--	<0.1	--	--	--	<10	--
9/8/2008	<2.3	<9.7	56.3	--	<1.3	<1.1	--	--	--	<0.02	--	--	--	<10	--
12/1/2008	<3.1	<9.5	62.3	--	<0.9	<1.2	--	--	--	<0.02	--	--	--	<5.7	--
3/9/2009	<3.1	<9.5	52.1	--	<0.9	<1.2	--	--	--	<0.02	--	--	--	<5.7	--
6/16/2009	--	<3.5	--	--	<0.7	--	--	--	--	<0.02	--	--	--	<6.8	--
9/1/2009	--	<3.5	--	--	<0.7	--	--	--	--	<0.01	--	--	--	<6.8	--
12/7/2009	--	<6.7	--	--	<1.2	--	--	--	--	<0.01	--	--	--	<7.2	--
3/9/2010	--	<6.7	--	--	<1.2	--	--	--	--	<0.02	--	--	--	<7.2	--
6/7/2010	<2.7	<6.1	50.5	--	<0.6	<0.8	--	--	--	<0.02	--	--	--	<7.9	--
9/14/2010	--	<6.1	--	--	<0.6	--	--	--	--	<0.02	--	--	--	<7.9	--
12/13/2010	--	9.6	--	--	<0.8	--	--	--	--	<0.02	--	--	--	<7.7	--
3/8/2011	--	<9.6	--	--	<0.8	--	--	--	--	<0.02	--	--	--	<7.3	--
6/14/2011	--	<9.6	--	--	<0.8	--	--	--	--	<0.02	--	--	--	<7.3	--
6/16/2011	--	<9.6	--	--	--	--	--	--	--	--	--	--	--	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
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 4. Grayed out = Data previously used but replaced

Table 2
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	MW-8404 (Background)
	Detect	6.67	77.9	Detect	Detect	3.71	TBD	0.25	Detect	Detect	Detect	Detect	Detect	Detect	Detect	
	MCL	MCL	MCL	\$257	MCL	MCL	MCL	MCL	\$257	\$257	MCL	MCL	\$257	MCL	MCL	MCL
9/27/2011	<6.8	<5.6	68	--	<0.33	<0.87	--	--	--	--	<0.12	--	--	--	<8.7	--
12/20/2011	<1.14	<2.2	59	--	0.23	<5	--	--	--	--	<0.098	--	--	<1.52	--	--
3/13/2012	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
6/27/2012	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
8/28/2012	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
10/9/2012	--	<5	52.8	--	<5	<5.1	--	--	--	--	<0.2	--	--	<5	--	--
2/5/2013	<1.1	<2.2	51.6	--	<0.21	<5.1	--	--	--	--	<0.15	--	--	<1.5	--	--
4/16/2013	--	8.34	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
7/16/2013	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
10/9/2013	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
1/20/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
1/24/2014	--	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/2014	<2	<5	50.4	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	--
7/7/2014	--	<5/<5	--	--	<5/<5	--	--	--	--	--	<0.2/<0.2	--	--	<5/<5	--	--
10/20/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/23/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
6/24/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
9/28/2015	<3.7	5.03	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	--
11/18/2015	--	5.6	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/15/2016	--	6.79	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
6/13/2016	--	6.64	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
9/14/2016	--	5.57	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

Table 2

Lockwood Hills LLC

Lockwood Ash Disposal Site - Groundwater Analytical Data

**MW-8404
(Background)**

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	6.67	77.9	Detect	Detect	3.71	TBD	0.25	Detect	Detect	Detect	Detect	Detect	Detect	Detect	TBD
Calculated Background																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	0.002
12/6/2016	<2.7	6.63	59.3	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	--
3/30/2017	<2.7	<5	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	--
6/29/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
9/20/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
12/27/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/29/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
6/21/2018	<1.86	<10	46.2	--	<5	<10	--	--	--	--	<0.2	--	--	<5	--	--
9/26/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
12/12/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/18/2019	--	5.89	--	<0.002	<5	--	<0.002	0.23	<0.005	<0.02	<0.2	<0.01	<1.48	<5	<0.008	<0.008
6/19/2019	--	<5	--	<0.002	<5	--	<0.002	<0.2	<0.005	<0.02	<0.2	<0.01	<1.77	<5	<0.008	<0.008
9/18/2019	<6.7	<10	67.3	<0.001	<5	<10	0.003	<0.2	<0.005	<0.037	<0.2	<0.01	<1.60	<5	<0.005±	<0.005±
11/20/2019	--	5.31	--	<0.001	<5	--	0.002	<0.2	<0.005	<0.037	<0.2	<0.01	<1.97	<5	<0.005±	<0.005±
3/11/2020	--	<5	--	<0.001	<5	--	0.001	<0.2	<0.005	<0.037	<0.2	<0.01	<1.46	<5	0.007	0.007
6/24/2020	--	<5	--	<0.001	<5	--	0.001	0.30	<0.005	<0.037	<0.2	<0.01	<1.48	<5	<0.005±	<0.005±
9/23/2020	<6.7	<10	74.7	<0.001	<5	<10	0.001	<0.2	<0.005	<0.041	<0.2	<0.01	<2.49	<5	<0.005±	<0.005±
12/7/2020	--	<5	--	<0.001	<5	--	0.001	<0.2	<0.005	<0.037	<0.2	<0.01	<1.81	<5	<0.005±	<0.005±

1. SSIs = Bold; GPS Exceedance = Gray background
 2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
 3. Strikethrough = Data removed from baseline
 4. Grayed out = Data previously used but replaced

**Table 3
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	MW-8908SH (Background)
	Detect	7.58	56.0	Detect	Detect	3.61	TBD	TBD	Detect	TBD	Detect	Detect	Detect	Detect	Detect	Detect
	MCL	Trigger	MCL	§257	MCL	MCL	§257	MCL	§257	§257	MCL	§257	MCL	MCL	MCL	MCL
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
10/31/1989	--	<5	69	--	--	<10	--	--	--	--	--	--	--	--	--	--
11/15/1989	--	<5	62	--	--	<10	--	--	--	--	--	--	--	--	--	--
1/5/1990	--	<5	49	--	--	<10	--	--	--	--	--	--	--	<10	--	--
4/19/1990	--	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1990	--	<5	50	--	--	<10	--	--	--	--	--	--	--	<10	--	--
10/24/1990	--	<5	72	--	--	<10	--	--	--	--	--	--	--	<10	--	--
1/30/1991	--	<5	30	--	--	<20	--	--	--	--	--	--	--	<10	--	--
4/26/1991	--	<5	70	--	--	<10	--	--	--	--	--	--	--	<10	--	--
7/11/1991	--	<5	47	--	--	<10	--	--	--	--	--	--	--	<10	--	--
10/10/1991	--	<5	45	--	--	<10	--	--	--	--	--	--	--	<10	--	--
1/10/1992	--	<2	72	--	--	2	--	--	--	--	--	--	--	<3	--	--
4/7/1992	--	<2	41	--	--	<2	--	--	--	--	--	--	--	<3	--	--
7/8/1992	--	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1992	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/15/1993	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1993	--	<2	37	--	--	<10	--	--	--	--	--	--	--	<15	--	--
7/13/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/20/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/13/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1994	--	<2	26	--	--	<20	--	--	--	--	--	--	--	--	--	--
10/6/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

**Table 3
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	MW-8908SH (Background)
	Detect	7.58	56.0	Detect	Detect	3.61	TBD	TBD	Detect	TBD	Detect	Detect	Detect	Detect	Detect	Detect
Calculated Background																
Groundwater Protection Standard																
MCL	Trigger	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
1/10/1995	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/11/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/10/1995	--	<2	27	--	--	<20	--	--	--	--	--	--	--	--	--	--
10/12/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/4/1996	--	<2	<20	--	--	<20	--	--	--	--	--	--	--	--	--	--
4/8/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/10/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/8/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/14/1997	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/10/1997	--	<2	38	--	--	<10	--	--	--	--	--	--	--	--	--	--
5/7/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/16/1997	--	<2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.3
10/2/1997	--	<1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.3
1/13/1998	--	<16	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.6
4/6/1998	--	<12.1	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.6
7/15/1998	--	<16.7	35.9	--	--	<5.7	--	--	--	--	--	--	--	--	--	<1.2
10/5/1998	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.1
1/12/1999	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.1
4/5/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.1
7/13/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.2
10/5/1999	--	<15.9	20.9	--	--	<2.9	--	--	--	--	--	--	--	--	--	<1.5
1/11/2000	--	<15.9	25.1	--	--	<2.9	--	--	--	--	--	--	--	--	--	<1.5

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

**Table 3
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	7.58	56.0	Detect	Detect	3.61	TBD	TBD	Detect	TBD	Detect	Detect	Detect	Detect	Detect	
Calculated Background																
Groundwater Protection Standard																
MCL	Trigger	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	0.002
4/6/2000	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.2	--	--
7/11/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	--
10/2/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	--
1/12/2001	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	--
6/12/2001	--	<14.3	33.8	--	--	<5.3	--	--	--	--	--	--	--	<2.1	--	--
9/5/2001	--	<14.3	--	--	--	--	--	--	--	--	--	--	--	<2.1	--	--
12/4/2001	--	<18	--	--	--	--	--	--	--	--	--	--	--	<1.3	--	--
3/12/2002	--	<6.3	--	--	--	--	--	--	--	--	--	--	--	<6.5	--	--
6/26/2002	--	<6.3	27.4	--	--	<1.8	--	--	--	--	--	--	--	<6.5	--	--
9/19/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	<8.8	--	--
12/11/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	<8.8	--	--
3/11/2003	--	11.7	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--	--
6/4/2003	--	9.4	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--	--
9/16/2003	<9.4	<6.9	30.8	--	<1.1	1	--	--	--	--	--	--	--	<8.0	--	--
12/17/2003	--	<6.9	--	--	<1.1	--	--	--	--	--	--	--	--	<8.0	--	--
3/18/2004	--	7.3	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--	--
6/16/2004	--	<5.4	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--	--
9/15/2004	--	5.9	--	--	<0.5	--	--	--	--	--	--	--	--	<7.3	--	--
12/15/2004	<2.1	<5.9	97.6	--	<0.5	12.4	--	--	--	--	--	--	--	<7.3	--	--
3/30/2005	<2.7	<6.7	73.2	--	<2.2	8.7	--	--	--	--	<0.09	--	--	<7.8	--	--
6/15/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	--	--
9/15/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

**Table 3
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

CCR Appendix IV Constituents

Sampling Event Date	CCR Appendix IV Constituents										MW-8908SH (Background)				
	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	7.58	56.0	Detect	Detect	3.61	TBD	TBD	Detect	TBD	Detect	Detect	Detect	Detect	Detect
	Calculated Background														
	Groundwater Protection Standard														
	MCL	Trigger	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
12/5/2005	--	<9	--	--	<2.2	--	--	--	--	--	<0.2	--	--	<9.0	--
3/6/2006	--	<9	--	--	<1	--	--	--	--	--	<0.2	--	--	<9.0	--
6/13/2006	<3	<10	36.2	--	<2	1.5	--	--	--	--	<0.2	--	--	<10	--
9/11/2006	--	<10	--	--	<2	--	--	--	--	--	<0.2	--	--	<10	--
12/4/2006	--	<8	--	--	<1	--	--	--	--	--	<0.08	--	--	<8.0	--
3/5/2007	--	<8	--	--	<1	--	--	--	--	--	<0.08	--	--	<8.0	--
6/18/2007	--	<9	--	--	<1	--	--	--	--	--	0.14	--	--	<5.0	--
9/10/2007	<1	<9	27.4	--	<1	1.2	--	--	--	--	<0.1	--	--	<5.0	--
12/11/2007	--	11.1	--	--	1	--	--	--	--	--	0.09	--	--	<7.0	--
3/4/2008	<2.8	<7.3	38.4	--	<0.6	1.6	--	--	--	--	<0.06	--	--	11.7	--
6/10/2008	<2.3	<9.7	40.3	--	<1.3	3	--	--	--	--	<0.1	--	--	<10	--
9/8/2008	<2.3	<9.7	25.9	--	<1.3	<1.1	--	--	--	--	<0.02	--	--	<10	--
12/1/2008	<3.1	<9.5	26.4	--	<0.9	<1.2	--	--	--	--	<0.02	--	--	<5.7	--
3/9/2009	<3.1	<9.5	30.9	--	<0.9	1.7	--	--	--	--	<0.02	--	--	<5.7	--
6/16/2009	--	<3.5	--	--	<0.7	--	--	--	--	--	<0.02	--	--	18.8	--
9/1/2009	--	<3.5	--	--	<0.7	--	--	--	--	--	<0.01	--	--	<6.8	--
12/7/2009	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.01	--	--	<7.2	--
3/9/2010	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.02	--	--	<7.2	--
6/7/2010	<2.7	<6.1	30.1	--	<0.6	0.96	--	--	--	--	<0.02	--	--	<7.9	--
9/14/2010	--	<6.1	--	--	<0.6	--	--	--	--	--	<0.02	--	--	<7.9	--
12/13/2010	--	<5.9	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.7	--
3/8/2011	--	<9.6	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.3	--

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
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**Table 3
Lockwood Hills LLC**

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	MW-8908SH (Background)
	Detect	7.58	56.0	Detect	Detect	3.61	TBD	TBD	Detect	TBD	Detect	Detect	Detect	Detect	Detect	Detect
	MCL	Trigger	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
6/14/2011	--	<9.6	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.3	--	--
9/27/2011	<6.8	<5.6	31.0	--	<0.33	1.3	--	--	--	--	<0.12	--	--	<8.7	--	--
12/21/2011	<1.14	<2.2	33.0	--	0.38	<5	--	--	--	--	<0.098	--	--	<1.52	--	--
3/13/2012	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5.0	--	--
6/27/2012	--	6	--	--	<5	--	--	--	--	--	<0.2	--	--	<5.0	--	--
8/28/2012	--	6	--	--	<5	--	--	--	--	--	<0.2	--	--	<5.0	--	--
10/10/2012	--	<5	25.2	--	<5	<5.1	--	--	--	--	<0.2	--	--	<5.0	--	--
2/5/2013	<1.1	<2.2	32.6	--	<0.21	<5.1	--	--	--	--	<0.15	--	--	<1.5	--	--
4/16/2013	--	6.89	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
7/16/2013	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
10/9/2013	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
1/20/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
4/7/2014	<2	7.57	34.6	--	<5	<5	--	--	--	--	1.7	--	--	<5	--	--
7/7/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
10/20/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/23/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
6/24/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
9/28/2015	<3.7	<5	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	--
11/18/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/15/2016	--	7.78	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
6/13/2016	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
9/14/2016	--	6.42	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--

**Calculated Background
Groundwater Protection Standard**

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
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Table 3
Lockwood Hills LLC
MW-8908SH
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	7.58	56.0	Detect	Detect	3.61	TBD	TBD	Detect	TBD	Detect	Detect	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	Trigger	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
12/6/2016	<2.7	7.63	49.2	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--
3/30/2017	<2.7	<5	200	--	<5	11.3	--	--	--	--	<0.2	--	--	<5	--
6/29/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
9/20/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
12/27/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/29/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
6/21/2018	<1.86	40	46.5	--	<5	<10	--	--	--	--	<0.2	--	--	<5	--
9/26/2018	--	5.27	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
12/12/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/18/2019	--	5.79	--	<0.002	<5	--	<0.002	<0.5	<0.005	<0.02	<0.2	<0.01	<1.07	<5	<0.008
6/19/2019	--	<5	--	<0.002	<5	--	<0.002	<0.2	<0.005	<0.02	<0.2	<0.01	<1.85	<5	<0.008
9/18/2019	6.7	<10	48.0	<0.001	<5	<10	0.002	<0.2	<0.005	<0.037	<0.2	<0.01	<1.7	<5	<0.0051
11/20/2019	--	<5	--	<0.001	<5	--	0.003	<0.2	<0.005	<0.037	<0.2	<0.01	<1.7	<5	<0.0051
3/11/2020	--	<5	--	<0.001	<5	--	<0.001	<0.2	<0.005	0.04	<0.2	<0.01	<1.31	<5	<0.0051
6/24/2020	--	<5	--	<0.001	<5	--	<0.001	0.20	<0.005	<0.037	<0.2	<0.01	<1.35	<5	<0.0051
9/23/2020	6.7	<10	40.6	<0.001	<5	<10	0.001	0.23	<0.005	0.041	<0.2	<0.01	<2.0	<5	<0.0051
12/7/2020	--	<5	--	<0.001	<5	--	0.002	<0.2	<0.005	<0.037	<0.2	<0.01	<2.3	<5	<0.0051

1. SSIs = Bold; GPS Exceedance = Gray background
 2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
 3. Strikethrough = Data removed from baseline
 4. Grayed out = Data previously used but replaced

Table 4
Lockwood Hills LLC

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	MW-8908D (Background)
	Detect	7.00	22.7	Detect	Detect	Detect	Detect	TBD	Detect	0.034	Detect	Detect	1.46	Detect	Detect	0.005
	MCL	MCL	MCL	§257	MCL	MCL	§257	MCL	§257	§257	MCL	§257	MCL	MCL	Trigger	
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.005	
10/31/1989	--	<5	31	--	--	<10	--	--	--	--	--	--	--	--	--	--
11/15/1989	--	<5	42	--	--	<10	--	--	--	--	--	--	--	--	--	--
1/5/1990	--	<5	39	--	--	<10	--	--	--	--	--	--	--	<10	--	--
4/19/1990	--	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1990	--	<5	49	--	--	<10	--	--	--	--	--	--	--	<10	--	--
10/24/1990	--	<5	46	--	--	<10	--	--	--	--	--	--	--	<10	--	--
1/30/1991	--	<5	59	--	--	<20	--	--	--	--	--	--	--	<10	--	--
4/26/1991	--	<5	46	--	--	<10	--	--	--	--	--	--	--	<10	--	--
7/11/1991	--	<5	48	--	--	<10	--	--	--	--	--	--	--	<10	--	--
10/10/1991	--	<5	22	--	--	<10	--	--	--	--	--	--	--	<10	--	--
1/10/1992	--	<2	27	--	--	<2	--	--	--	--	--	--	--	<3	--	--
4/7/1992	--	2	17	--	--	<2	--	--	--	--	--	--	--	<3	--	--
7/8/1992	--	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1992	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/15/1993	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1993	--	<2	32	--	--	<10	--	--	--	--	--	--	--	<15	--	--
7/13/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/20/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/13/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1994	--	<2	22	--	--	<20	--	--	--	--	--	--	--	--	--	--
10/6/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
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3. Strikethrough = Data removed from baseline
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Table 4
Lockwood Hills LLC

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	MW-8908D (Background)	
	Detect	7.00	22.7	Detect	Detect	Detect	Detect	TBD	Detect	0.034	Detect	Detect	1.46	Detect	Detect	0.005	
Calculated Background																	
Groundwater Protection Standard																	
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	Trigger		
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.005		
1/10/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4/11/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
7/10/1995	--	<2	<20	--	--	<20	--	--	--	--	--	--	--	--	--	--	
10/12/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1/4/1996	--	<2	<20	--	--	<20	--	--	--	--	--	--	--	--	--	--	
4/8/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
7/10/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
10/8/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/1997	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4/10/1997	--	<2	28	--	--	<10	--	--	--	--	--	--	--	--	--	--	
5/7/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
7/16/1997	--	<2.1	--	--	--	--	--	--	--	--	--	--	--	<1.3	--	--	
10/2/1997	--	<1.5	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--	
1/13/1998	--	<16	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--	
4/6/1998	--	<12.1	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--	
7/15/1998	--	<16.7	20.1	--	--	<5.7	--	--	--	--	--	--	--	<1.2	--	--	
10/5/1998	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--	
1/12/1999	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--	
4/5/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--	
7/13/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	<2.2	--	--	
10/5/1999	--	<15.9	22	--	--	<2.9	--	--	--	--	--	--	--	<1.5	--	--	
1/11/2000	--	<15.9	30.2	--	--	<2.9	--	--	--	--	--	--	--	<1.5	--	--	

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

Table 4
Lockwood Hills LLC

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	7.00	22.7	Detect	Detect	Detect	Detect	TBD	Detect	0.034	Detect	Detect	1.46	Detect	0.005	
	Calculated Background															
	Groundwater Protection Standard															
	MCL	MCL	MCL	§257	MCL	MCL	§257	MCL	§257	§257	MCL	§257	MCL	MCL	Trigger	
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.005	
4/6/2000	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.2	--	
7/11/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	
10/2/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	
1/12/2001	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	
6/12/2001	--	<14.3	22.1	--	--	<5.3	--	--	--	--	--	--	--	<2.1	--	
9/5/2001	--	<14.3	--	--	--	--	--	--	--	--	--	--	--	<2.1	--	
12/4/2001	--	<18	--	--	--	--	--	--	--	--	--	--	--	<1.3	--	
3/12/2002	--	<6.3	--	--	--	--	--	--	--	--	--	--	--	<6.5	--	
6/26/2002	--	<6.3	19.9	--	--	<1.8	--	--	--	--	--	--	--	<6.5	--	
9/19/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	<8.8	--	
12/11/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	<8.8	--	
3/11/2003	--	<8.6	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--	
6/4/2003	--	<8.6	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--	
9/16/2003	<9.4	<6.9	16.9	--	<1.1	1.3	--	--	--	--	--	--	--	<8	--	
12/17/2003	--	<6.9	--	--	<1.1	--	--	--	--	--	--	--	--	<8	--	
3/18/2004	--	<5.4	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--	
6/16/2004	--	<5.4	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--	
9/15/2004	--	<5.9	--	--	<0.5	--	--	--	--	--	--	--	--	<7.3	--	
12/15/2004	<2.1	<5.9	19.5	--	<0.5	3.1	--	--	--	--	--	--	--	<7.3	--	
3/30/2005	<2.7	<6.7	20.2	--	<2.2	<2.5	--	--	--	--	<0.09	--	--	<7.8	--	
6/15/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	--	
9/15/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	--	

1. SSIs = Bold; GPS Exceedance = Gray background
 2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
 3. Strikethrough = Data removed from baseline
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**Table 4
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	MW-8908D (Background)
	Detect	7.00	22.7	Detect	Detect	Detect	Detect	TBD	Detect	0.034	Detect	Detect	1.46	Detect	Detect	0.005
	MCL	MCL	MCL	\$257	MCL	MCL	100	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	Trigger
12/5/2005	--	<9	--	--	<2.2	--	--	--	--	--	<0.2	--	--	<9	--	--
3/6/2006	--	<9	--	--	<1	--	--	--	--	--	<0.2	--	--	<9	--	--
6/13/2006	<3	<10	14.9	--	<2	<1	--	--	--	--	<0.2	--	--	<10	--	--
9/11/2006	--	<10	--	--	<2	--	--	--	--	--	<0.2	--	--	<10	--	--
12/4/2006	--	<8	--	--	<1	--	--	--	--	--	<0.08	--	--	<8	--	--
3/5/2007	--	<8	--	--	<1	--	--	--	--	--	<0.08	--	--	<8	--	--
6/18/2007	--	<9	--	--	1.3	--	--	--	--	--	0.14	--	--	<5	--	--
9/10/2007	<1	<9	16.0	--	<1	<1	--	--	--	--	<0.1	--	--	<5	--	--
12/11/2007	--	13.6	--	--	1.1	--	--	--	--	--	0.1	--	--	<7	--	--
3/4/2008	<2.8	<7.3	17.0	--	<0.6	<1.1	--	--	--	--	<0.06	--	--	9.2	--	--
6/10/2008	<2.3	<9.7	16.2	--	<1.3	1.9	--	--	--	--	<0.1	--	--	<10	--	--
9/8/2008	<2.3	<9.7	15.6	--	<1.3	<1.1	--	--	--	--	<0.02	--	--	<10	--	--
12/1/2008	<3.1	<9.5	18.5	--	<0.9	<1.2	--	--	--	--	<0.02	--	--	<5.7	--	--
3/9/2009	<3.1	<9.5	19.5	--	<0.9	<1.2	--	--	--	--	<0.02	--	--	<5.7	--	--
6/16/2009	--	<3.5	--	--	<0.7	--	--	--	--	--	<0.02	--	--	<6.8	--	--
9/1/2009	--	<3.5	--	--	<0.7	--	--	--	--	--	<0.01	--	--	15.3	--	--
12/7/2009	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.01	--	--	<7.2	--	--
3/9/2010	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.02	--	--	<7.2	--	--
6/7/2010	<2.7	<6.1	17.8	--	<0.6	0.86	--	--	--	--	<0.02	--	--	<7.9	--	--
9/14/2010	--	<6.1	--	--	<0.6	--	--	--	--	--	<0.02	--	--	<7.9	--	--
12/13/2010	--	6.8	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.7	--	--
3/8/2011	--	<9.6	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.3	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

Table 4
Lockwood Hills LLC

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	MW-8908D (Background)
	Detect	7.00	22.7	Detect	Detect	Detect	Detect	TBD	Detect	0.034	Detect	Detect	1.46	Detect	Detect	0.005
	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	Trigger
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.005	
6/14/2011	--	<9.6	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.3	--	--
9/27/2011	<6.8	<5.6	18.0	--	<0.33	1.3	--	--	--	--	<0.12	--	--	<8.7	--	--
12/21/2011	<1.14	<2.2	31.0	--	0.24	<5	--	--	--	--	<0.098	--	--	<1.52	--	--
3/13/2012	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
6/27/2012	--	7	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
8/28/2012	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
10/10/2012	--	<5	14.7	--	<5	<5.1	--	--	--	--	<0.2	--	--	<5	--	--
2/5/2013	<1.1	<2.2	15.2	--	<5	<5.1	--	--	--	--	<0.15	--	--	<1.5	--	--
4/16/2013	--	7.02	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
7/16/2013	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
10/9/2013	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
1/20/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
4/7/2014	<2	5.4	15.5	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	--
7/7/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
10/20/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/23/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
6/24/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
9/28/2015	<3.7	<5	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	--
11/18/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/15/2016	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
6/13/2016	--	6.95	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
9/14/2016	--	5.87	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--

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Table 4
Lockwood Hills LLC
MW-8908D
(Background)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	7.00	22.7	Detect	Detect	Detect	Detect	TBD	Detect	0.034	Detect	Detect	1.46	Detect	0.005
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	Trigger
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.005
12/6/2016	<2.7	7.78	--	<5	<5	<5	--	--	--	--	<0.2	--	--	<5	--
3/30/2017	<2.7	<5	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--
6/29/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
9/20/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
12/27/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/29/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
6/21/2018	<1.86	<40	18.1	--	<5	<10	--	--	--	--	<0.2	--	--	<5	--
9/26/2018	--	6.08	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
12/12/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/18/2019	--	<5	--	<0.002	<5	--	<0.002	<0.5	<0.005	<0.02	<0.2	<0.01	<1.14	<5	<0.008
6/19/2019	--	<5	--	<0.002	<5	--	<0.002	<0.2	<0.005	<0.02	<0.2	<0.01	<1.67	<5	<0.008
9/18/2019	<6.7	<10	15.8	<0.001	<5	<10	<0.001	<0.2	<0.005	<0.037	<0.2	<0.01	<1.35	<5	<0.0051
11/20/2019	--	<5	--	<0.001	<5	--	<0.001	<0.2	<0.005	<0.037	<0.2	<0.01	1.42	<5	<0.0051
3/11/2020	--	6.54	--	<0.001	<5	--	<0.001	<0.2	<0.005	0.067	<0.2	<0.01	<1.18	<5	0.008
6/24/2020	--	<5	--	<0.001	<5	--	<0.001	<0.2	<0.005	<0.037	<0.2	<0.01	<0.60	<5	<0.0051
9/23/2020	<6.7	<10	16.1	<0.001	<5	<10	<0.001	<0.2	<0.005	<0.041	<0.2	<0.01	1.55	<5	<0.0051
12/7/2020	--	<5	--	<0.001	<5	--	<0.001	0.21	<0.005	<0.037	<0.2	<0.01	<1.66	<5	<0.0051

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 2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
 3. Strikethrough = Data removed from baseline
 4. Grayed out = Data previously used but replaced

**Table 5
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

**MW-8909SH
(Downgradient)**

CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	15.61	36.27	Detect	Detect	Detect	Detect	Detect	1.29	Detect	Detect	0.023	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
10/31/1989	--	<5	42	--	<10	--	--	--	--	--	--	--	--	--	--
11/15/1989	--	7	53	--	<10	--	--	--	--	--	--	--	--	--	--
12/22/1989	--	<5	36	--	<10	--	--	--	--	--	--	--	--	--	--
1/5/1990	--	<5	35	--	<10	--	--	--	--	--	--	--	--	<10	--
4/19/1990	--	<5	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1990	--	<5	25	--	<10	--	--	--	--	--	--	--	--	<10	--
10/24/1990	--	<5	31	--	<10	--	--	--	--	--	--	--	--	<10	--
1/30/1991	--	<5	30	--	<10	--	--	--	--	--	--	--	--	<10	--
10/10/1991	--	<5	23	--	<10	--	--	--	--	--	--	--	--	<10	--
1/10/1992	--	2	23	--	<2	--	--	--	--	--	--	--	--	<3	--
4/7/1992	--	3	25	--	<2	--	--	--	--	--	--	--	--	<3	--
7/8/1992	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1992	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--
1/15/1993	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	<15	--
7/13/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--
10/19/1993	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--
1/13/1994	--	<4	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--
7/12/1994	--	<2	<20	--	--	<20	--	--	--	--	--	--	--	--	--
10/6/1994	--	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1/10/1995	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
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**Table 5
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

**MW-8909SH
(Downgradient)**

CCR Appendix IV Constituents																
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	15.61	36.27	Detect	Detect	Detect	Detect	1.29	Detect	Detect	Detect	0.023	Detect	Detect	Detect	
Calculated Background																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
4/11/1995	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1995	--	3	25	--	--	<20	--	--	--	--	--	--	--	--	--	--
10/11/1995	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/4/1996	--	7	<20	--	--	<20	--	--	--	--	--	--	--	--	--	--
4/8/1996	--	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/10/1996	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/9/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/14/1997	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/9/1997	--	5.2	31	--	--	<10	--	--	--	--	--	--	--	--	--	--
5/8/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.3	--	--
7/15/1997	--	3.2	--	--	--	--	--	--	--	--	--	--	--	<1.3	--	--
10/2/1997	--	6.3	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--
1/13/1998	--	<16	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--
4/7/1998	--	<12.1	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--
7/16/1998	--	<16.7	27.6	--	--	<5.7	--	--	--	--	--	--	--	<1.2	--	--
10/6/1998	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--
1/12/1999	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--
4/6/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--
7/14/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	<2.2	--	--
10/6/1999	--	<15.9	24.5	--	--	<2.9	--	--	--	--	--	--	--	<1.5	--	--
1/11/2000	--	<15.9	27.1	--	--	<2.9	--	--	--	--	--	--	--	<1.5	--	--
4/5/2000	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.2	--	--

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**Table 5
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

**MW-8909SH
(Downgradient)**

CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	15.61	36.27	Detect	Detect	Detect	Detect	1.29	Detect	Detect	Detect	0.023	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	§257	MCL	MCL	§257	MCL	§257	§257	MCL	§257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
7/11/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	2.6	--
10/4/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
1/10/2001	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
6/12/2001	--	<14.3	24.3	--	<5.3	--	--	--	--	--	--	--	--	<2.1	--
9/5/2001	--	<14.3	--	--	--	--	--	--	--	--	--	--	--	4.6	--
12/4/2001	--	<18	--	--	--	--	--	--	--	--	--	--	--	1.8	--
3/12/2002	--	<6.3	--	--	--	--	--	--	--	--	--	--	--	<6.5	--
6/25/2002	--	13.2	31.7	--	<1.8	--	--	--	--	--	--	--	--	<6.5	--
9/18/2002	--	14	--	--	--	--	--	--	--	--	--	--	--	<8.8	--
12/10/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	<8.8	--
3/11/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/12/2003	--	<8.6	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--
6/3/2003	--	9.6	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--
9/15/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2003	<9.4	9.5	21.1	--	<1.1	<1	--	--	--	--	--	--	--	<8	--
12/17/2003	--	<6.9	--	--	<1.1	--	--	--	--	--	--	--	--	10.6	--
3/18/2004	--	10.6	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--
6/17/2004	--	6.4	--	--	1.2	--	--	--	--	--	--	--	--	<7.2	--
9/15/2004	--	<5.9	--	--	<0.5	--	--	--	--	--	--	--	--	<7.3	--
12/14/2004	<2.1	6	22.3	--	<0.5	3.6	--	--	--	--	--	--	--	<7.3	--
3/29/2005	<2.7	<6.7	24.4	--	<2.2	3.2	--	--	--	--	<0.09	--	--	<7.8	--
6/15/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	--

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**Table 5
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

**MW-8909SH
(Downgradient)**

CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	15.61	36.27	Detect	Detect	Detect	Detect	1.29	Detect	Detect	Detect	0.023	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
9/15/2005	--	<6.7	--	<2.2	--	--	--	--	--	--	<0.11	--	--	<7.8	--
12/5/2005	--	<9	--	<2.2	--	--	--	--	--	--	<0.2	--	--	<9	--
3/7/2006	--	<9	--	<1	--	--	--	--	--	--	<0.2	--	--	<9	--
6/13/2006	<3	<10	25.5	--	<2	<1	--	--	--	--	<0.2	--	--	<10	--
9/12/2006	--	<10	--	--	<2	--	--	--	--	--	<0.2	--	--	<10	--
12/5/2006	--	<8	--	--	<1	--	--	--	--	--	<0.08	--	--	<8	--
3/6/2007	--	9	--	--	<1	--	--	--	--	--	<0.08	--	--	<8	--
6/19/2007	--	<9	--	--	<1	--	--	--	--	--	0.11	--	--	<5	--
9/11/2007	<1	<9	17.6	--	<1	<1	--	--	--	--	<0.1	--	--	<5	--
12/11/2007	--	<7.3	--	--	<0.6	--	--	--	--	--	0.1	--	--	<7	--
3/4/2008	<2.8	<7.3	21.8	--	<0.6	<1.1	--	--	--	--	<0.06	--	--	7.1	--
6/11/2008	<2.3	<9.7	21.3	--	<1.3	2.4	--	--	--	--	<0.1	--	--	<10	--
6/16/2008	--	<9.7	--	--	--	--	--	--	--	--	--	--	--	--	--
9/9/2008	<2.3	<9.7	18.4	--	<1.3	<1.1	--	--	--	--	<0.02	--	--	<10	--
12/2/2008	<3.1	<9.5	21.8	--	<0.9	<1.2	--	--	--	--	<0.02	--	--	<5.7	--
3/10/2009	<3.1	10.5	19.1	--	<0.9	<1.2	--	--	--	--	<0.02	--	--	<5.7	--
6/16/2009	--	<3.5	--	--	<0.7	--	--	--	--	--	<0.02	--	--	<6.8	--
9/2/2009	--	9.1	--	--	<0.7	--	--	--	--	--	<0.01	--	--	<6.8	--
12/8/2009	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.01	--	--	<7.2	--
3/10/2010	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.02	--	--	<7.2	--
6/8/2010	<2.7	7.5	25.5	--	<0.6	0.82	--	--	--	--	<0.02	--	--	<7.9	--
9/15/2010	--	<6.1	--	--	<0.6	--	--	--	--	--	<0.02	--	--	<7.9	--

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Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data

MW-8909SH
(Downgradient)

CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	15.61	36.27	Detect	Detect	Detect	Detect	1.29	Detect	Detect	Detect	0.023	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
12/15/2010	--	<5.9	--	<0.8	<0.8	--	--	--	--	--	<0.02	--	--	8.9	--
3/9/2011	--	<9.6	--	<0.8	<0.8	--	--	--	--	--	<0.02	--	--	<7.3	--
6/15/2011	--	<9.6	--	<0.8	<0.8	--	--	--	--	--	<0.02	--	--	<7.3	--
9/27/2011	<6.8	6.3	21	--	<0.33	<0.87	--	--	--	--	<0.12	--	--	<8.7	--
12/20/2011	<1.14	2.6	--	--	<0.21	<5	--	--	--	--	<0.098	--	--	<1.52	--
3/13/2012	--	8	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
6/27/2012	--	6	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
8/28/2012	--	8	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
10/10/2012	--	7	<200	<5	<5	<5.1	--	--	--	--	<0.2	--	--	<5	--
2/5/2013	<1.1	5.37	22.1	--	<0.21	<5.1	--	--	--	--	<0.15	--	--	<1.5	--
4/16/2013	--	7.53	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
7/16/2013	--	<5	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
10/9/2013	--	<5	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
1/20/2014	--	<5	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
4/7/2014	<2	8.96	26.6	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--
7/7/2014	--	8.28	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
10/20/2014	--	5.43	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/24/2015	--	<5	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
6/24/2015	--	<5	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
9/28/2015	<3.7	8.64	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--
11/18/2015	--	6.6	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/15/2016	--	10.1	--	<5	<5	--	--	--	--	--	<0.2	--	--	<5	--

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**MW-8909SH
(Downgradient)**

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Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	15.61	36.27	Detect	Detect	Detect	Detect	1.29	Detect	Detect	Detect	0.023	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
6/13/2016	--	8.3	--	<5	--	--	--	--	--	--	<0.2	--	--	<5	--
9/14/2016	--	9.26	--	<5	--	--	--	--	--	--	<0.2	--	--	<5	--
12/6/2016	<2.7	10	27.8	<5	<5	<5	--	--	--	--	<0.2	--	--	<5	--
3/30/2017	<2.7	6.45	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--
6/29/2017	--	6.49	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
9/20/2017	--	7.32	--	<5	--	--	--	--	--	--	<0.2	--	--	<5	--
12/27/2017	--	7.73	--	<5	--	--	--	--	--	--	<0.2	--	--	<5	--
3/28/2018	--	<5	--	<5	--	--	--	--	--	--	<0.2	--	--	<5	--
6/20/2018	<1.86	<10	25.8	--	<5	<10	--	--	--	--	<0.2	--	--	<5	--
9/26/2018	--	10.7	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
12/12/2018	--	<5	--	<5	--	--	--	--	--	--	<0.2	--	--	<5	--
3/18/2019	--	8.84	--	<0.002	<5	--	<0.002	1.15	<0.005	<0.02	<0.2	0.016	<1.33	<5	<0.008
6/19/2019	--	6.38	--	<0.002	<5	--	<0.001	0.69	<0.005	<0.02	<0.2	0.016	<1.55	<5	<0.008
9/18/2019	<6.7	<10	25.6	<0.001	<5	<10	<0.001	0.83	<0.005	<0.037	<0.2	0.012	<1.51	<5	<0.0051
11/20/2019	--	6.16	--	<0.001	<5	--	<0.001	0.90	<0.005	<0.037	<0.2	0.018	<1.76	<5	<0.0051
3/11/2020	--	7.1	--	<0.001	<5	--	<0.001	0.77	<0.005	<0.037	<0.2	0.018	<1.77	<5	<0.0051
6/23/2020	--	7.45	--	<0.001	<5	--	<0.001	0.95	<0.005	<0.037	<0.2	0.014	<1.56	<5	<0.0051
9/23/2020	<6.7	<10	26.6	<0.001	<5	<10	<0.001	0.90	<0.005	<0.041	<0.2	0.012	<1.87	<5	<0.0051
12/7/2020	--	5.77	--	<0.001	<5	--	<0.001	0.82	<0.005	<0.037	<0.2	0.018	<2.04	<5	<0.0051

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

CCR Appendix IV Constituents												
Parameter	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (µg/L)
Method	TBD	Detect	30.1	0.004	1.26	Detect	Detect	Detect	TBD	3.72	Detect	Detect
Calculated Background												
Groundwater Protection Standard												
Parameter	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
Method	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0
	--	--	--	--	--	--	--	--	--	--	<1.6	<1.6
	--	--	--	--	--	--	--	--	--	--	<1.6	<1.6
	--	--	<5.7	--	--	--	--	--	--	--	1.4	1.4
	--	--	--	--	--	--	--	--	--	--	1.4	1.4
	--	--	--	--	--	--	--	--	--	--	<1.1	<1.1
	--	--	--	--	--	--	--	--	--	--	<2.2	<2.2
	--	--	162	--	--	--	--	--	--	--	<1.5/<1.5	<1.5/<1.5
	--	--	645	--	--	--	--	--	--	--	<1.5/<1.5	<1.5/<1.5
	--	--	--	--	--	--	--	--	--	--	<2.2	<2.2
	--	--	--	--	--	--	--	--	--	--	<2.4	<2.4
	--	--	--	--	--	--	--	--	--	--	<2.4	<2.4
	--	--	--	--	--	--	--	--	--	--	<2.4	<2.4
	--	--	36.8	--	--	--	--	--	--	--	<2.1	<2.1
	--	--	--	--	--	--	--	--	--	--	<2.1	<2.1
	--	--	--	--	--	--	--	--	--	--	<1.3	<1.3
	--	--	--	--	--	--	--	--	--	--	<6.5	<6.5
	--	--	125	--	--	--	--	--	--	--	<6.5	<6.5
	--	--	--	--	--	--	--	--	--	--	<8.8	<8.8
	--	--	--	--	--	--	--	--	--	--	<8.8	<8.8
	--	2.6	--	--	--	--	--	--	--	--	<8.1	<8.1
	--	<1.1	--	--	--	--	--	--	--	--	<8.1	<8.1
	--	<1.1	15	--	--	--	--	--	--	--	<8	<8
	--	1.1	--	--	--	--	--	--	--	--	<8	<8
	--	1.9	--	--	--	--	--	--	--	--	<7.2	<7.2
	--	1.1	--	--	--	--	--	--	--	--	<7.2	<7.2
	--	1.9	--	--	--	--	--	--	--	--	<7.3	<7.3
	--	1.3	73.1	--	--	--	--	--	--	--	<7.3	<7.3
	--	4.4	76.8	--	--	--	--	<0.09	--	--	<7.8	<7.8
	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	<7.8
	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	<7.8
	--	1.8	--	--	--	--	--	<0.2	--	--	<9	<9
	--	1.3	--	--	--	--	--	<0.2	--	--	<9	<9
	--	5.2	106	--	--	--	--	<0.2	--	--	<10	<10
	--	<2	--	--	--	--	--	<0.2	--	--	<10	<10

CCR Appendix IV Constituents												
mm	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Th
Calculated Background												
	TBD	Detect	30.1	0.004	1.26	Detect	Detect	Detect	TBD	3.72	Detect	D
Groundwater Protection Standard												
	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0
	--	<5/<5	--	--	--	--	--	<0.2/<0.2	--	--	<5/<5	
	--	<5/<5	--	--	--	--	--	<0.2/<0.2	--	--	<5/<5	
4	--	<5/<5	<5/<5	--	--	--	--	<0.2/<0.2	--	--	<5/<5	
00	--	<5/<5	<5/<5	--	--	--	--	<0.2/<0.2	--	--	<5/<5	
	--	<5/<5	--	--	--	--	--	<0.2/<0.2	--	--	<5/<5	
	--	<5/<5	--	--	--	--	--	<0.2/<0.2	--	--	<5/<5	
	--	<5/<5	--	--	--	--	--	<0.2/<0.2	--	--	<5/<5	
	--	<5/<5	--	--	--	--	--	<0.2/<0.2	--	--	<5/<5	
2	--	<5/<5	<10/<10	--	--	--	--	<0.2/<0.2	--	--	<5/<5	
	--	<5/<5	--	--	--	--	--	<0.2/<0.2	--	--	<5/<5	
	--	<5/<5	--	--	--	--	--	<0.2/<0.2	--	--	<5/<5	
	<0.002/<0.002	<5/<5	--	0.003 /0.003	1.09/1.13	<0.005/<0.005	<0.02/<0.02	<0.2/<0.2	0.028/0.026	2.32/2.66	<5/<5	<0.005
	<0.002/<0.002	<5/<5	--	0.002 /0.003	0.68/0.69	<0.005/<0.005	<0.02/<0.02	<0.2/<0.2	0.031/0.035	<1.7/<1.85	<5/<5	<0.005
8	0.001 /0.001	<5/<5	10.3/<10	0.003 /0.003	0.81/0.82	<0.005/<0.005	<0.037/<0.037	<0.2/<0.2	0.027/0.03	<2.71/2.94	<5/<5	<0.005
	<0.001/<0.001	<5/<5	--	0.003 /0.002	0.54/0.73	<0.005/<0.005	<0.037/<0.037	<0.2/<0.2	0.026/0.026	2.57/<2.09	<5/<5	<0.005
	<0.001/<0.001	<5/<5	--	0.003 /0.003	0.82/0.83	<0.005/<0.005	<0.037/<0.037	<0.2/<0.2	0.028/0.028	<1.8/<2.04	<5/<5	<0.005
	<0.001/<0.001	<5/<5	--	0.003 /0.002	0.92/0.8	<0.005/<0.005	<0.037/<0.037	<0.2/<0.2	0.029/0.027	2.57/<1.86	<5/<5	<0.005
6	<0.001/<0.001	<5/<5	27.9/<10	0.004 /0.003	0.89/0.9	<0.005/<0.005	<0.041/<0.041	<0.2/<0.2	0.022/0.019	<2.84/3.41	<5/<5	<0.005
	<0.001/<0.001	<5/<5	--	0.002 /0.002	0.79/0.8	<0.005/<0.005	<0.037/<0.037	<0.2/<0.2	0.03/0.03	<2.17/<2.18	<5/<5	<0.005

Table 7
Lockwood Hills LLC
MW-8910D
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	7.49	38.8	Detect	Detect	4.01	Detect	TBD	Detect	0.04	Detect	0.056	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	6.0	MCL 10.0	MCL 2000	\$257 0.004	MCL 5.0	MCL 100	\$257 0.006	MCL 4.0	\$257 0.015	\$257 0.04	MCL 0.2	\$257 0.1	MCL 5.0	MCL 50.0	MCL 0.002
/31/1989	--	<5	27	--	--	<10	--	--	--	--	--	--	--	--	--
/5/1990	--	<5	37	--	--	<10	--	--	--	--	--	--	--	<10	--
/19/1990	--	<5	--	--	--	--	--	--	--	--	--	--	--	--	--
/11/1990	--	<5	54	--	--	<10	--	--	--	--	--	--	--	<10	--
/24/1990	--	<5	46	--	--	<10	--	--	--	--	--	--	--	<10	--
/30/1991	--	<5	55	--	--	<10	--	--	--	--	--	--	--	<10	--
/26/1991	--	<5	40	--	--	<10	--	--	--	--	--	--	--	<10	--
/11/1991	--	<5	42	--	--	<10	--	--	--	--	--	--	--	<10	--
/10/1991	--	<5	42	--	--	<10	--	--	--	--	--	--	--	<10	--
/7/1992	--	<2	40	--	--	<2	--	--	--	--	--	--	--	<3	--
/8/1992	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
/14/1992	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--
/15/1993	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--
/7/1993	--	3	19	--	--	<10	--	--	--	--	--	--	--	<15	--
/13/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--
/19/1993	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--
/14/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--
/7/1994	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--
/12/1994	--	<2	69	--	--	<20	--	--	--	--	--	--	--	--	--
/6/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--
/10/1995	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--
/11/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--
/11/1995	--	2	66	--	--	<20	--	--	--	--	--	--	--	--	--

Sis = Bold; GPS Exceedance = Gray background
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 Traced out = Data previously used but replaced

Table 7
Lockwood Hills LLC
MW-8910D
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)							
	Detect	7.49	38.8	Detect	Detect	4.01	Detect	TBD	Detect	0.04	Detect	0.056	Detect	Detect	Detect							
Calculated Background																						
Groundwater Protection Standard																						
MCL	6.0	10.0	2000	\$257	MCL	5.0	MCL	100	MCL	4.0	MCL	\$257	\$257	MCL	0.2	\$257	MCL	5.0	MCL	50.0	0.002	
/12/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
/4/1996	--	<2	78	--	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
/9/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
/10/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
/9/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
/14/1997	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
/9/1997	--	2.8	57	--	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
/8/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.3	--
/15/1997	--	<2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.3	--
/2/1997	--	2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.6	--
/13/1998	--	<16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.6	--
/7/1998	--	<12.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.6	--
/16/1998	--	<16.7	48	--	--	<5.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.2	--
/6/1998	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.1	--
/12/1999	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.1	--
/6/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.1	--
/14/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.2	--
/6/1999	--	<15.9	40.3	--	--	<2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.5	--
/11/2000	--	<15.9	50.4	--	--	<2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.7	--
/5/2000	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.2	--
/11/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
/4/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
/10/2001	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.4	--

Sis = Bold; GPS Exceedance = Gray background
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 Strikethrough = Data removed from baseline
 Traced out = Data previously used but replaced

Table 7
Lockwood Hills LLC
MW-8910D
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	7.49	38.8	Detect	Detect	4.01	Detect	TBD	Detect	0.04	Detect	0.056	Detect	Detect	Detect	
Calculated Background																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	
'12/2001	--	<14.3	52.3	--	--	<5.3	--	--	--	--	--	--	--	--	<2.1	--
'5/2001	--	<14.3	--	--	--	--	--	--	--	--	--	--	--	--	<2.1	--
'2/4/2001	--	<18	--	--	--	--	--	--	--	--	--	--	--	--	2.1	--
'13/2002	--	<6.3	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--
'25/2002	--	9.1	34	--	--	<1.8	--	--	--	--	--	--	--	--	7.5	--
'18/2002	--	9.2	--	--	--	--	--	--	--	--	--	--	--	--	<8.8	--
'10/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	--	<8.8	--
'12/2003	--	<8.6	--	--	--	--	--	--	--	--	--	--	--	--	<8.1	--
'3/2003	--	<8.6	--	--	--	--	--	--	--	--	--	--	--	--	<8.1	--
'16/2003	<9.4	<6.9	24.8	--	--	<1	--	--	--	--	--	--	--	--	<8	--
'18/2003	--	<6.9	--	--	--	<1.1	--	--	--	--	--	--	--	--	<8	--
'18/2004	--	6.4	--	--	--	<0.8	--	--	--	--	--	--	--	--	9.7	--
'17/2004	--	<5.4	--	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--
'15/2004	--	<5.9	--	--	--	<0.5	--	--	--	--	--	--	--	--	<7.3	--
'14/2004	<2.1	<5.9	28.5	--	--	<0.5	3.2	--	--	--	--	--	--	--	<7.3	--
'29/2005	<2.7	<6.7	26.8	--	--	<2.2	2.9	--	--	--	<0.09	--	--	--	7.9	--
'14/2005	--	<6.7	--	--	--	<2.2	--	--	--	--	<0.11	--	--	--	<7.8	--
'14/2005	--	<6.7	--	--	--	<2.2	--	--	--	--	<0.11	--	--	--	<7.8	--
'2/5/2005	--	<9	--	--	--	<2.2	--	--	--	--	<0.2	--	--	--	<9	--
'7/7/2006	--	<9	--	--	--	<1	--	--	--	--	<0.2	--	--	--	<9	--

Sis = Bold; GPS Exceedance = Gray background
 Baseline data used to calculate trigger values in italics and bracketed by thick lines
 Strikethrough = Data removed from baseline
 Traced out = Data previously used but replaced

Table 7
Lockwood Hills LLC
MW-8910D
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	7.49	38.8	Detect	Detect	4.01	Detect	TBD	Detect	0.04	Detect	0.056	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
'13/2006	<3	<10	22.9	--	<2	<1	--	--	--	--	<0.2	--	--	<10	--
'12/2006	--	<10	--	--	<2	--	--	--	--	--	<0.2	--	--	<10	--
'2/5/2006	--	<8	--	--	<1	--	--	--	--	--	0.2	--	--	9.8	--
'6/2007	--	<8	--	--	<1	--	--	--	--	--	<0.08	--	--	<8	--
'19/2007	--	<9	--	--	<1	--	--	--	--	--	0.12	--	--	<5	--
'11/2007	4.6	<9	31.4	--	<1	1.1	--	--	--	--	<0.1	--	--	<5	--
'/11/2007	--	11.8	--	--	<0.6	--	--	--	--	--	0.11	--	--	<7	--
'/4/2008	<2.8	<7.3	23.4	--	<0.6	<1.1	--	--	--	--	<0.06	--	--	<7	--
'11/2008	<2.3	<9.7	29.5	--	<1.3	2.2	--	--	--	--	<0.1	--	--	<10	--
'9/2008	<2.3	<9.7	24.5	--	<1.3	1.5	--	--	--	--	<0.02	--	--	<10	--
'2/2/2008	<3.1	<9.5	35	--	<0.9	<1.2	--	--	--	--	<0.02	--	--	<5.7	--
'10/2009	<3.1	<9.5	23.2	--	<0.9	<1.2	--	--	--	--	<0.02	--	--	<5.7	--
'16/2009	--	<3.5	--	--	<0.7	--	--	--	--	--	<0.02	--	--	12.7	--
'2/2009	--	7.6	--	--	<0.7	--	--	--	--	--	<0.01	--	--	<6.8	--
'2/8/2009	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.01	--	--	<7.2	--
'10/2010	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.02	--	--	<7.2	--
'8/2010	<2.7	6.9	22.2	--	<0.6	1.3	--	--	--	--	<0.02	--	--	<7.9	--
'15/2010	--	<6.1	--	--	<0.6	--	--	--	--	--	<0.02	--	--	<7.9	--
'15/2010	--	<5.9	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.7	--
'9/2011	--	<9.6	--	--	<0.8	--	--	--	--	--	0.08	--	--	<7.3	--
'15/2011	--	<9.6	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.3	--
'27/2011	<6-8	<5.6	19	--	<0.33	1.1	--	--	--	--	<0.12	--	--	<8.7	--

SIs = Bold; GPS Exceedance = Gray background
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**MW-8910D
(Downgradient)**

**Table 7
Lockwood Hills LLC**

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	7.49	38.8	Detect	Detect	4.01	Detect	TBD	Detect	0.04	Detect	0.056	Detect	Detect	Detect	
Calculated Background																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
/20/2011	<1.14	<2.2	20	--	0.25	<5	--	--	--	--	<0.098	--	--	<1.52	--	
'13/2012	--	7	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
'27/2012	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
'28/2012	--	5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
/10/2012	--	<5	<200	--	<5	<5.1	--	--	--	--	<0.2	--	--	<5	--	
/5/2013	<1.1	<2.2	25.3	--	<0.21	<5.1	--	--	--	--	<0.15	--	--	<1.5	--	
'16/2013	--	8.5/8.74	--	--	<5/<5	--	--	--	--	--	<0.2/<0.2	--	--	<5/<5	--	
'16/2013	--	<5/<5	--	--	<5/<5	--	--	--	--	--	<0.2/<0.2	--	--	<5/<5	--	
0/9/2013	--	41.9	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
'20/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
/7/2014	<2	10.1	17.8	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	
/7/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
/20/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
'24/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
'24/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
'28/2015	<3.7	9.03	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	
/18/2015	--	5.8	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
'15/2016	--	6.42	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
'13/2016	--	5.18	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
'14/2016	--	7.75	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
'16/2016	<2.7	6.83	19.8	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	
'30/2017	<2.7	<5	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	
'29/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	

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**MW-8910D
(Downgradient)**

**Table 7
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	7.49	38.8	Detect	Detect	4.01	Detect	TBD	Detect	0.04	Detect	0.056	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
10/20/2017	--	5.07	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
11/27/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
12/28/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
1/20/2018	<1.86	<10	18.2	--	<5	<10	--	--	--	--	<0.2	--	--	<5	--
2/26/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/12/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
4/18/2019	--	5.01	--	<0.002	<5	--	<0.002	<0.5	<0.005	<0.02	<0.2	0.047	<1.29	<5	<0.008
5/19/2019	--	<5	--	<0.002	<5	--	<0.002	<0.2	<0.005	<0.02	<0.2	0.049	<1.32	<5	<0.008
6/18/2019	<6.7	<10	24.7	<0.001	<5	<10	<0.001	0.28	<0.005	<0.037	<0.2	0.044	<1.52	<5	<0.0051
7/20/2019	--	<5	--	<0.001	<5	--	<0.001	0.25	<0.005	<0.037	<0.2	0.047	<1.7	<5	<0.0051
8/11/2020	--	6.17	--	<0.001	<5	--	<0.001	0.25	<0.005	0.087	<0.2	0.045	<1.7	<5	<0.0051
9/23/2020	--	<5	--	<0.001	<5	--	<0.001	0.44	<0.005	<0.037	<0.2	0.039	<1.31	<5	<0.0051
10/23/2020	<6.7	<10	21.9	<0.001	<5	<10	<0.001	0.4	<0.005	<0.041	<0.2	0.039	<2.12	<5	<0.0051
11/27/2020	--	<5	--	<0.001	<5	--	<0.001	0.31	<0.005	<0.037	<0.2	0.039	<2.01	<5	<0.0051

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Table 8

Lockwood Hills LLC

**MW-8911SH
(Downgradient)**

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	18.48	32.3	Detect	Detect	4.14	Detect	TBD	Detect	Detect	Detect	0.038	Detect	Detect	Detect	
Calculated Background																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	0.002
10/31/1989	<5	48	--	--	--	<10	--	--	--	--	--	--	--	--	--	--
11/15/1989	<5	38	--	--	--	<10	--	--	--	--	--	--	--	--	--	--
1/5/1990	<5	48	--	--	--	<10	--	--	--	--	--	--	--	<10	--	--
4/19/1990	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1990	6	56	--	--	--	<10	--	--	--	--	--	--	--	<10	--	--
10/24/1990	<5	55	--	--	--	<10	--	--	--	--	--	--	--	<10	--	--
1/30/1991	<5	41	--	--	--	<20	--	--	--	--	--	--	--	<10	--	--
4/26/1991	<5	35	--	--	--	<10	--	--	--	--	--	--	--	<10	--	--
7/11/1991	<5	30	--	--	--	<10	--	--	--	--	--	--	--	<10	--	--
10/10/1991	<5	32	--	--	--	<10	--	--	--	--	--	--	--	<10	--	--
1/10/1992	<2	59	--	--	--	16	--	--	--	--	--	--	--	<3	--	--
4/7/1992	2	130	--	--	--	36	--	--	--	--	--	--	--	<3	--	--
7/8/1992	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/14/1992	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/15/1993	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1993	3	19	--	--	--	<10	--	--	--	--	--	--	--	<15	--	--
7/13/1993	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/19/1993	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/14/1994	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1994	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/12/1994	5	<20	--	--	--	<20	--	--	--	--	--	--	--	--	--	--
10/6/1994	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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**Table 8
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

**MW-8911SH
(Downgradient)**

CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	18.48	32.3	Detect	Detect	4.14	Detect	TBD	Detect	Detect	Detect	0.038	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
1/10/1995	--	7	--	--	--	--	--	--	--	--	--	--	--	--	--
4/11/1995	--	5	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1995	--	7	<20	--	<20	<20	--	--	--	--	--	--	--	--	--
10/12/1995	--	6	--	--	--	--	--	--	--	--	--	--	--	--	--
1/4/1996	--	2	23	--	<20	<20	--	--	--	--	--	--	--	--	--
4/9/1996	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--
7/10/1996	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--
10/9/1996	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--
1/14/1997	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--
4/9/1997	--	9.6	19	--	<10	<10	--	--	--	--	--	--	--	--	--
5/8/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	<3	--
7/15/1997	--	7.1	--	--	--	--	--	--	--	--	--	--	--	<1.3	--
10/2/1997	--	11	--	--	--	--	--	--	--	--	--	--	--	<1.6	--
1/13/1998	--	<16	--	--	--	--	--	--	--	--	--	--	--	<1.6	--
4/7/1998	--	<12.1	--	--	--	--	--	--	--	--	--	--	--	<1.6	--
7/15/1998	--	<16.7	19.3	--	<5.7	<5.7	--	--	--	--	--	--	--	<1.2	--
10/5/1998	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	<1.1	--
1/12/1999	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	<1.1	--
4/6/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	<1.1	--
7/14/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	<2.2	--
10/6/1999	--	<15.9	19.7	--	<2.9	<2.9	--	--	--	--	--	--	--	<1.5	--
1/11/2000	--	<15.9	18	--	<2.9	<2.9	--	--	--	--	--	--	--	<1.5	--

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Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

**MW-8911SH
(Downgradient)**

CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	18.48	32.3	Detect	Detect	4.14	Detect	TBD	Detect	Detect	Detect	0.038	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
4/5/2000	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.2	--
7/11/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
10/4/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
1/11/2001	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
6/12/2001	--	<14.3	19.4	--	--	<5.3	--	--	--	--	--	--	--	<2.1	--
9/5/2001	--	15.7	--	--	--	--	--	--	--	--	--	--	--	<2.1	--
12/4/2001	--	<18	--	--	--	--	--	--	--	--	--	--	--	<1.3	--
3/12/2002	--	9	--	--	--	--	--	--	--	--	--	--	--	<6.5	--
6/25/2002	--	16.1	20.3	--	--	<1.8	--	--	--	--	--	--	--	<6.5	--
9/18/2002	--	12.5	--	--	--	--	--	--	--	--	--	--	--	<8.8	--
12/10/2002	--	9.5	--	--	--	--	--	--	--	--	--	--	--	<8.8	--
3/12/2003	--	9.6	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--
6/3/2003	--	11.3	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--
9/16/2003	<9.4	7.5	19.4	--	<1.1	<1	--	--	--	--	--	--	--	<8	--
12/18/2003	--	15	--	--	<1.1	--	--	--	--	--	--	--	--	<8	--
3/18/2004	--	12.8	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--
6/16/2004	--	8.3	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--
9/15/2004	--	7.4	--	--	<0.5	--	--	--	--	--	--	--	--	<7.3	--
12/14/2004	<2.1	9.7	22.9	--	<0.5	3.1	--	--	--	--	--	--	--	<7.3	--
3/29/2005	<2.7	8.7	25.3	--	<2.2	2.8	--	--	--	--	<0.09	--	--	<7.8	--
6/14/2005	--	7.2	--	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	--
9/14/2005	--	11.4	--	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	--

1. SSIs = Bold; GPS Exceedance = Gray background
 2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
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Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

**MW-8911SH
(Downgradient)**

CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	18.48	32.3	Detect	Detect	4.14	Detect	TBD	Detect	Detect	Detect	0.038	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
12/6/2005	--	11.3	--	<2.2	--	--	--	--	--	--	<0.2	--	--	<9	--
3/7/2006	--	10.1	--	<1	--	--	--	--	--	--	<0.2	--	--	<9	--
6/13/2006	<3	11.6	18.2	<2	1.2	--	--	--	--	--	<0.2	--	--	<10	--
9/12/2006	--	11.9	--	<2	--	--	--	--	--	--	<0.2	--	--	<10	--
12/5/2006	--	11.8	--	<1	--	--	--	--	--	--	<0.08	--	--	8.8	--
3/6/2007	--	12.5	--	<1	--	--	--	--	--	--	<0.08	--	--	<8	--
6/19/2007	--	13.1	--	<1	--	--	--	--	--	--	0.13	--	--	<5	--
9/11/2007	<1	<9	22.2	--	<1	<1	--	--	--	--	<0.1	--	--	<5	--
12/11/2007	--	17.1	--	<0.6	--	--	--	--	--	--	0.1	--	--	<7	--
3/4/2008	<2.8	<7.3	20	--	<0.6	<1.1	--	--	--	--	<0.06	--	--	10.5	--
6/11/2008	<2.3	13	24.3	--	<1.3	2.1	--	--	--	--	<0.1	--	--	<10	--
9/9/2008	<2.3	11.4	25.2	--	<1.3	<1.1	--	--	--	--	<0.02	--	--	<10	--
12/2/2008	<3.1	<9.5	23.3	--	<0.9	<1.2	--	--	--	--	<0.02	--	--	<5.7	--
3/10/2009	<3.1	17.1	22.8	--	<0.9	<1.2	--	--	--	--	<0.02	--	--	<5.7	--
6/16/2009	--	9.4	--	--	<0.7	--	--	--	--	--	<0.02	--	--	<6.8	--
9/2/2009	--	10.9	--	--	<0.7	--	--	--	--	--	<0.01	--	--	<6.8	--
12/8/2009	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.01	--	--	11.5	--
3/10/2010	--	10.3	--	--	<1.2	--	--	--	--	--	<0.02	--	--	<7.2	--
6/8/2010	<2.7	6.6	23.9	--	<0.6	<0.8	--	--	--	--	<0.02	--	--	<7.9	--
9/15/2010	--	9.5	--	--	<0.6	--	--	--	--	--	<0.02	--	--	<7.9	--
12/15/2010	--	<5.9	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.7	--
3/9/2011	--	13	--	--	<0.8	--	--	--	--	--	<0.02	--	--	9.8	--

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**Table 8
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

**MW-8911SH
(Downgradient)**

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	18.48	32.3	Detect	Detect	4.14	Detect	TBD	Detect	Detect	Detect	0.038	Detect	Detect	Detect	
Calculated Background																
Groundwater Protection Standard																
	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
6/15/2011	--	10.8	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.3	--	
9/27/2011	6.8	11	25	--	<0.33	1.1	--	--	--	--	<0.12	--	--	<8.7	--	
12/20/2011	1.6	10	23	--	0.28	<5	--	--	--	--	<0.098	--	--	<1.52	--	
3/13/2012	--	16	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
6/27/2012	--	10	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
8/28/2012	--	13	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
10/10/2012	--	12	200	--	<5	<5.1	--	--	--	--	<0.2	--	--	<5	--	
2/5/2013	<1.1	7.39	26.2	--	<0.21	<5.1	--	--	--	--	<0.15	--	--	<1.5	--	
4/16/2013	--	17.3	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
7/16/2013	--	5.05	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
10/9/2013	--	7.33	--	--	<5	--	--	--	--	--	<0.15	--	--	<5	--	
1/20/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	12.1	--	
4/8/2014	<2	20.1	24.3	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	
7/8/2014	--	16	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
10/21/2014	--	10.5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
3/24/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
6/24/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
9/28/2015	<3.7	15.5	200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	
11/18/2015	--	13.1	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
3/15/2016	--	18.8	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
6/13/2016	--	17.6	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	
9/14/2016	--	18.4	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	

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Table 8
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data

MW-8911SH
(Downgradient)

CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	18.48	32.3	Detect	Detect	4.14	Detect	TBD	Detect	Detect	Detect	0.038	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
12/6/2016	<2.7	17.6	27.1	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--
3/30/2017	<2.7	17.9	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--
6/29/2017	--	10.8	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
9/20/2017	--	15.5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
12/27/2017	--	13	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/29/2018	--	9.93	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
6/21/2018	<1.86	<40	27.9	--	<5	<10	--	--	--	--	<0.2	--	--	<5	--
9/27/2018	--	17.1	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
12/13/2018	--	9.7	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/19/2019	--	16	--	<0.002	<5	--	<0.002	1.18	<0.005	<0.02	<0.2	0.029	<1.65	<5	<0.008
6/20/2019	--	11.2	--	<0.002	<5	--	<0.002	0.56	<0.005	<0.02	<0.2	0.033	<1.67	<5	<0.001
9/19/2019	<6.7	17.9	29.9	<0.001	<5	<10	<0.001	0.66	<0.005	<0.037	<0.2	0.025	<1.86	<5	<0.0051
11/20/2019	--	11.1	--	<0.001	<5	--	<0.001	0.63	<0.005	<0.037	<0.2	0.029	<1.92	<5	<0.0051
3/12/2020	--	17.5	--	<0.001	<5	--	<0.001	0.69	<0.005	<0.037	<0.2	0.03	<1.69	<5	<0.0051
6/24/2020	--	14.5	--	<0.001	<5	--	<0.001	0.79	<0.005	<0.037	<0.2	0.025	<1.43	<5	<0.0051
9/23/2020	<6.7	14.8	27.3	<0.001	<5	<10	<0.001	0.75	<0.005	<0.041	<0.2	0.025	<2.7	<5	<0.0051
12/8/2020	--	14	--	<0.001	<5	--	<0.001	0.66	<0.005	<0.037	<0.2	0.031	<1.89	<5	<0.0051

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**Table 9
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

CCR Appendix IV Constituents													MW-8911D (Downgradient)			
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	9.16	26.7	Detect	Detect	4.07	Detect	0.92	Detect	Detect	Detect	Detect	Detect	Detect	Detect	
Calculated Background																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	§257	MCL	MCL	§257	MCL	§257	§257	MCL	§257	MCL	MCL	MCL	
6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002		
10/31/1989	--	<5	52	--	--	<10	--	--	--	--	--	--	--	--	--	
11/15/1989	--	<5	60	--	--	<20	--	--	--	--	--	--	--	--	--	
4/19/1990	--	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	
7/11/1990	--	<5	20	--	--	<10	--	--	--	--	--	--	--	<10	--	
10/24/1990	--	<5	32	--	--	<10	--	--	--	--	--	--	--	<10	--	
1/30/1991	--	<5	28	--	--	<10	--	--	--	--	--	--	--	<10	--	
4/26/1991	--	<5	30	--	--	<10	--	--	--	--	--	--	--	<10	--	
7/11/1991	--	<5	22	--	--	<10	--	--	--	--	--	--	--	<10	--	
10/10/1991	--	<5	22	--	--	<10	--	--	--	--	--	--	--	<10	--	
1/10/1992	--	4	22	--	--	<2	--	--	--	--	--	--	--	<3	--	
4/7/1992	--	16	20	--	--	<2	--	--	--	--	--	--	--	<3	--	
7/8/1992	--	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	
10/14/1992	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	
1/15/1993	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	
4/7/1993	--	<2	24	--	--	<10	--	--	--	--	--	--	--	<15	--	
7/13/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	
10/19/1993	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	
1/13/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	
4/7/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	
7/12/1994	--	<2	28	--	--	<20	--	--	--	--	--	--	--	--	--	
10/6/1994	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	
1/10/1995	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	

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Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

**MW-8911D
(Downgradient)**

CCR Appendix IV Constituents																	
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)		
	Detect	9.16	26.7	Detect	Detect	4.07	Detect	0.92	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect	
Calculated Background																	
Groundwater Protection Standard																	
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL	
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002		
4/11/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1995	--	<2	71	--	--	<20	--	--	--	--	--	--	--	--	--	--	--
10/12/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/4/1996	--	<2	33	--	--	<20	--	--	--	--	--	--	--	--	--	--	--
4/9/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/10/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/9/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/14/1997	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/9/1997	--	<2	70	--	--	<10	--	--	--	--	--	--	--	--	--	--	--
5/8/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.3	--
7/15/1997	--	<2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.3	--
10/2/1997	--	2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.6	--
1/13/1998	--	<16	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.6	--
4/7/1998	--	<12.1	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.6	--
7/15/1998	--	<16.7	36.8	--	--	<5.7	--	--	--	--	--	--	--	--	--	<1.2	--
10/6/1998	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.1	--
1/12/1999	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.1	--
4/6/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.1	--
7/14/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.2	--
10/6/1999	--	<15.9	36.8	--	--	<2.9	--	--	--	--	--	--	--	--	--	<1.5	--
1/11/2000	--	<15.9	27.1	--	--	<2.9	--	--	--	--	--	--	--	--	--	<1.5	--
4/5/2000	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.2	--

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Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

**MW-8911D
(Downgradient)**

CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	9.16	26.7	Detect	Detect	4.07	Detect	0.92	Detect	Detect	Detect	Detect	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
7/11/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
10/4/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
1/11/2001	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.4	--
6/12/2001	--	<14.3	25.1	--	--	<5.3	--	--	--	--	--	--	--	<2.1	--
9/5/2001	--	<14.3	--	--	--	--	--	--	--	--	--	--	--	<2.1	--
12/4/2001	--	<18	--	--	--	--	--	--	--	--	--	--	--	2.5	--
3/12/2002	--	<6.3	--	--	--	--	--	--	--	--	--	--	--	<6.5	--
6/25/2002	--	8.6	22.4	--	--	1.8	--	--	--	--	--	--	--	<6.5	--
9/18/2002	--	13.5	--	--	--	--	--	--	--	--	--	--	--	<8.8	--
12/10/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	<8.8	--
3/12/2003	--	<8.6	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--
6/3/2003	--	<8.6	--	--	<1.1	--	--	--	--	--	--	--	--	<8.1	--
9/16/2003	<9.4	7	20.1	--	<1.1	<1	--	--	--	--	--	--	--	<8	--
12/18/2003	--	<6.9	--	--	<1.1	--	--	--	--	--	--	--	--	<8	--
3/18/2004	--	6.6	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--
6/16/2004	--	<5.4	--	--	<0.8	--	--	--	--	--	--	--	--	<7.2	--
9/15/2004	--	<5.9	--	--	<0.5	--	--	--	--	--	--	--	--	<7.3	--
12/14/2004	<2.1	<5.9	29.5	--	<0.5	3.8	--	--	--	--	--	--	--	<7.3	--
3/29/2005	<2.7	<6.7	47.8	--	<2.2	4.7	--	--	--	--	<0.09	--	--	8	--
6/14/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	--
9/14/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	<7.8	--
12/6/2005	--	<9	--	--	<2.2	--	--	--	--	--	<0.2	--	--	<9	--

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(Downgradient)**

CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	9.16	26.7	Detect	Detect	4.07	Detect	0.92	Detect	Detect	Detect	Detect	Detect	Detect	Detect
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
3/7/2006	--	<9	--	<1	--	--	--	--	--	<0.2	--	--	--	<9	--
6/13/2006	<3	<10	32.8	--	<2	2.8	--	--	--	<0.2	--	--	--	<10	--
9/12/2006	--	<10	--	--	<2	--	--	--	--	<0.2	--	--	--	<10	--
12/5/2006	--	<8	--	--	<1	--	--	--	--	<0.08	--	--	--	<8	--
3/6/2007	--	<8	--	--	<1	--	--	--	--	<0.08	--	--	--	<8	--
6/19/2007	--	9.2	--	--	<1	--	--	--	--	0.13	--	--	--	<5	--
9/11/2007	<1	<9	20.2	--	<1	1.0	--	--	--	<0.1	--	--	--	<5	--
12/11/2007	--	8.2	--	--	<0.6	--	--	--	--	0.11	--	--	--	<7	--
3/4/2008	<2.8	<7.3	20.8	--	<0.6	<1.1	--	--	--	<0.06	--	--	--	12.2	--
6/11/2008	<2.3	<9.7	15.7	--	<1.3	1.9	--	--	--	<0.1	--	--	--	<10	--
9/9/2008	<2.3	<9.7	17.6	--	<1.3	<1.1	--	--	--	<0.02	--	--	--	<10	--
12/2/2008	<3.1	<9.5	22.7	--	<0.9	<1.2	--	--	--	<0.02	--	--	--	<5.7	--
3/10/2009	<3.1	<9.5	17.5	--	<0.9	<1.2	--	--	--	<0.02	--	--	--	<5.7	--
6/16/2009	--	<3.5	--	--	<0.7	--	--	--	--	<0.02	--	--	--	<6.8	--
9/2/2009	--	<3.5	--	--	<0.7	--	--	--	--	<0.01	--	--	--	9	--
12/8/2009	--	<6.7	--	--	<1.2	--	--	--	--	<0.01	--	--	--	<7.2	--
3/10/2010	--	<6.7	--	--	<1.2	--	--	--	--	<0.02	--	--	--	<7.2	--
6/8/2010	<2.7	<6.1	18.8	--	<0.6	0.98	--	--	--	<0.02	--	--	--	<7.9	--
9/15/2010	--	<6.1	--	--	0.67	--	--	--	--	<0.02	--	--	--	<7.9	--
12/15/2010	--	<5.9	--	--	<0.8	--	--	--	--	<0.02	--	--	--	<7.7	--
3/9/2011	--	<9.6	--	--	<0.8	--	--	--	--	0.07	--	--	--	<7.3	--
6/15/2011	--	<9.6	--	--	<0.8	--	--	--	--	<0.02	--	--	--	<7.3	--

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

**Table 9
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

CCR Appendix IV Constituents

Sampling Event Date	CCR Appendix IV Constituents											MW-8911D (Downgradient)			
	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	9.16	26.7	Detect	Detect	4.07	Detect	0.92	Detect	Detect	Detect	Detect	Detect	Detect	Detect
	Calculated Background														
	Groundwater Protection Standard														
	MCL	MCL	MCL	§257	MCL	MCL	§257	MCL	§257	§257	MCL	§257	MCL	MCL	MCL
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
9/27/2011	<6.8	<5.6	22	--	<0.33	1.2	--	--	--	--	<0.12	--	--	<8.7	--
12/20/2011	1.2	2.7	24	--	0.22	<5	--	--	--	--	<0.098	--	--	<1.52	--
3/13/2012	--	6	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
6/27/2012	--	8	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
8/28/2012	--	9	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
10/10/2012	--	<5	<200	--	<5	<5.1	--	--	--	--	<0.2	--	--	<5	--
2/5/2013	<1.1	5.66	17.5	--	<0.21	<5.1	--	--	--	--	<0.15	--	--	<1.5	--
4/16/2013	--	10.3	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
7/16/2013	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
10/9/2013	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
1/20/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
4/7/2014	<2	9.53	18.3	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--
7/7/2014	--	6.09	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
10/20/2014	--	5.01	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/24/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
6/24/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
9/28/2015	<3.7	<40	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--
11/18/2015	--	5.14	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/15/2016	--	6.29	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
6/13/2016	--	6.36	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
9/14/2016	--	7.65	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
12/6/2016	<2.7	7.38	16.3	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

**Table 9
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data**

**MW-8911D
(Downgradient)**

CCR Appendix IV Constituents																
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	9.16	26.7	Detect	Detect	4.07	Detect	0.92	Detect	Detect	Detect	Detect	Detect	Detect	Detect	Detect
	MCL	MCL	MCL	\$257	MCL	MCL	MCL	MCL	\$257	\$257	MCL	MCL	\$257	MCL	MCL	MCL
3/30/2017	<2.7	5.13	<200	--	<5	<5	--	--	--	--	<0.2	0.1	--	<5	--	--
6/29/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
9/20/2017	--	6.73	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
12/27/2017	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/28/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
6/20/2018	<1.86	<40	19.3	--	<5	<10	--	--	--	--	<0.2	--	--	<5	--	--
9/26/2018	--	7.58	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
12/12/2018	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/18/2019	--	<5	--	<0.002	<5	--	<0.002	0.76	<0.005	<0.02	<0.2	<0.01	<1.40	<5	<0.008	<0.008
6/19/2019	--	<5	--	<0.002	<5	--	<0.002	0.21	<0.005	<0.02	<0.2	<0.01	<1.47	<5	<0.008	<0.008
9/18/2019	<6.7	<10	20.1	<0.001	<5	<10	<0.001	0.30	<0.005	<0.037	<0.2	<0.01	<1.62	<5	<0.005	<0.005
11/20/2019	--	<5	--	<0.001	<5	--	<0.001	0.24	<0.005	<0.037	<0.2	<0.01	<1.98	<5	<0.005	<0.005
3/12/2020	--	<5	--	<0.001	<5	--	<0.001	0.26	<0.005	<0.037	<0.2	<0.01	<1.53	<5	<0.005	<0.005
6/24/2020	--	<5	--	<0.001	<5	--	<0.001	0.50	<0.005	<0.037	<0.2	<0.01	<1.23	<5	<0.005	<0.005
9/23/2020	<6.7	<10	17.3	<0.001	<5	<10	<0.001	0.40	<0.005	<0.041	<0.2	<0.01	<1.66	<5	<0.005	<0.005
12/7/2020	--	<5	--	<0.001	<5	--	<0.001	0.33	<0.005	<0.037	<0.2	<0.01	<2.09	<5	<0.005	<0.005

**Calculated Background
Groundwater Protection Standard**

1. SSIs = Bold; GPS Exceedance = Gray background
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Table 10
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data

MW-8942D
(Downgradient)

CCR Appendix IV Constituents																	
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)		
	Detect	12	35.91	Detect	Detect	4.01	Detect	TBD	Detect	Detect	Detect	Detect	Detect	Detect	Detect	TBD	
Calculated Background																	
Groundwater Protection Standard																	
MCL	MCL	MCL	MCL	§257	MCL	MCL	§257	MCL	§257	§257	MCL	§257	MCL	MCL	MCL	MCL	
6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	5.0	50.0	0.002		
10/16/1989	<5	164	--	--	16.4	--	--	--	--	--	--	--	--	--	--	--	--
10/31/1989	<5	31	--	--	<10	--	--	--	--	--	--	--	--	--	--	--	--
11/15/1989	<5	24	--	--	<10	--	--	--	--	--	--	--	--	--	--	--	--
1/5/1990	<5	12	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--	--
4/19/1990	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/11/1990	<5	19	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--	--
10/24/1990	<5	22	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--	--
1/30/1991	<5	22	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--	--
4/26/1991	<5	15	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--	--
7/11/1991	<5	19	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--	--
10/10/1991	<5	20	--	--	<10	--	--	--	--	--	--	--	--	<10	--	--	--
4/7/1992	<2	22	--	--	<2	--	--	--	--	--	--	--	--	<3	--	--	--
7/8/1992	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/15/1993	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1993	<2	16	--	--	<10	--	--	--	--	--	--	--	--	<15	--	--	--
7/13/1993	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/20/1993	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/14/1994	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/8/1994	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/12/1994	<2	26	--	--	<20	--	--	--	--	--	--	--	--	--	--	--	--
10/6/1994	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/10/1995	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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3. Strikethrough = Data removed from baseline
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Table 10
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data

MW-8942D
(Downgradient)

CCR Appendix IV Constituents																
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	12	35.91	Detect	Detect	4.01	Detect	TBD	Detect	Detect	Detect	Detect	Detect	Detect	TBD	
Calculated Background																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
4/11/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/10/1995	--	2	<20	--	--	<20	--	--	--	--	--	--	--	--	--	--
10/11/1995	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/5/1996	--	3	<20	--	--	<20	--	--	--	--	--	--	--	--	--	--
4/8/1996	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/10/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/9/1996	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/14/1997	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/9/1997	--	2.2	20	--	--	<10	--	--	--	--	--	--	--	--	--	--
5/8/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.3	--	--
7/15/1997	--	<2.1	--	--	--	--	--	--	--	--	--	--	--	<1.3	--	--
10/2/1997	--	4.7	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--
1/13/1998	--	<16	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--
4/7/1998	--	<12.1	--	--	--	--	--	--	--	--	--	--	--	<1.6	--	--
7/15/1998	--	<16.7	18.6	--	--	<5.7	--	--	--	--	--	--	--	<1.2	--	--
10/6/1998	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--
1/12/1999	--	<16.7	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--
4/5/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	<1.1	--	--
7/14/1999	--	<15.3	--	--	--	--	--	--	--	--	--	--	--	<2.2	--	--
10/6/1999	--	<15.9	18	--	--	<2.9	--	--	--	--	--	--	--	<1.5	--	--
1/11/2000	--	<15.9	20.9	--	--	<2.9	--	--	--	--	--	--	--	<1.5	--	--
4/6/2000	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	<2.2	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
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Table 10
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data

MW-8942D
(Downgradient)

CCR Appendix IV Constituents																	
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)		
	Detect	12	35.91	Detect	Detect	4.01	Detect	TBD	Detect	\$257	MCL	\$257	MCL	Detect	Detect	TBD	
Calculated Background																	
Groundwater Protection Standard																	
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002		
7/11/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	--
10/4/2000	--	<15.2	--	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	--
1/11/2001	--	<15.9	--	--	--	--	--	--	--	--	--	--	--	--	<2.4	--	--
6/12/2001	--	<14.3	30.7	--	--	<5.3	--	--	--	--	--	--	--	--	<2.1	--	--
9/5/2001	--	14.3	--	--	--	--	--	--	--	--	--	--	--	--	<2.1	--	--
12/4/2001	--	<18	--	--	--	--	--	--	--	--	--	--	--	--	1.6	--	--
3/12/2002	--	<6.3	--	--	--	--	--	--	--	--	--	--	--	--	<6.5	--	--
6/25/2002	--	<6.3	24.9	--	--	1.9	--	--	--	--	--	--	--	--	<6.5	--	--
9/18/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	--	<8.8	--	--
12/10/2002	--	<7.9	--	--	--	--	--	--	--	--	--	--	--	--	<8.8	--	--
3/12/2003	--	<8.6	--	--	<1.1	--	--	--	--	--	--	--	--	--	<8.1	--	--
6/3/2003	--	<8.6	--	--	<1.1	--	--	--	--	--	--	--	--	--	<8.1	--	--
9/16/2003	<9.4	<6.9	51.2	--	<1.1	1.1	--	--	--	--	--	--	--	--	<8	--	--
12/18/2003	--	<6.9	--	--	<1.1	--	--	--	--	--	--	--	--	--	<8	--	--
3/18/2004	--	<5.4	--	--	<0.8	--	--	--	--	--	--	--	--	--	<7.2	--	--
6/17/2004	--	<5.4	--	--	<0.8	--	--	--	--	--	--	--	--	--	<7.2	--	--
9/15/2004	--	<5.9	--	--	<0.5	--	--	--	--	--	--	--	--	--	<7.3	--	--
12/14/2004	<2.1	<5.9	41.5	--	<0.5	2.8	--	--	--	--	--	--	--	--	<7.3	--	--
3/30/2005	<2.7	<6.7	36.9	--	<2.2	3	--	--	--	--	<0.09	--	--	--	<7.8	--	--
6/14/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	--	<7.8	--	--
9/14/2005	--	<6.7	--	--	<2.2	--	--	--	--	--	<0.11	--	--	--	<7.8	--	--
12/6/2005	--	<9	--	--	<2.2	--	--	--	--	--	<0.2	--	--	--	<9	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
 2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
 3. Strikethrough = Data removed from baseline
 4. Grayed out = Data previously used but replaced

Table 10
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data

MW-8942D
(Downgradient)

CCR Appendix IV Constituents																
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	12	35.91	Detect	Detect	4.01	Detect	TBD	Detect	\$257	MCL	\$257	MCL	Detect	Detect	TBD
Calculated Background																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	
3/7/2006	--	<9	--	<1	--	--	--	--	--	--	<0.2	--	--	<9	--	--
6/13/2006	<3	<10	47	--	<2	1.2	--	--	--	--	<0.2	--	--	<10	--	--
9/12/2006	--	<10	--	--	<2	--	--	--	--	--	<0.2	--	--	<10	--	--
12/5/2006	--	<8	--	--	<1	--	--	--	--	--	<0.08	--	--	<8	--	--
3/6/2007	--	<8	--	--	<1	--	--	--	--	--	<0.08	--	--	<8	--	--
6/19/2007	--	<9	--	--	<1	--	--	--	--	--	0.12	--	--	<5	--	--
9/11/2007	<1	11.8	60.4	--	<1	1.6	--	--	--	--	<0.1	--	--	<5	--	--
12/11/2007	--	14.8	--	--	<0.6	--	--	--	--	--	0.11	--	--	<7	--	--
3/4/2008	<2.8	<7.3	54.5	--	<0.6	1.9	--	--	--	--	<0.06	--	--	<7	--	--
6/12/2008	<2.3	<9.7	38.3	--	<1.3	2.6	--	--	--	--	<0.1	--	--	<10	--	--
9/9/2008	<2.3	<9.7	44.9	--	<1.3	<1.1	--	--	--	--	<0.02	--	--	<10	--	--
12/2/2008	<3.1	<9.5	59.9	--	<0.9	1.4	--	--	--	--	<0.02	--	--	<5.7	--	--
3/10/2009	<3.1	11.9	52.7	--	<0.9	1.2	--	--	--	--	<0.02	--	--	<5.7	--	--
6/16/2009	--	<3.5	--	--	<0.7	--	--	--	--	--	<0.02	--	--	<6.8	--	--
9/2/2009	--	4.5	--	--	<0.7	--	--	--	--	--	<0.01	--	--	<6.8	--	--
12/8/2009	--	<6.7	--	--	<1.2	--	--	--	--	--	<0.01	--	--	<7.2	--	--
3/10/2010	--	7.2	--	--	<1.2	--	--	--	--	--	<0.02	--	--	<7.2	--	--
6/8/2010	<2.7	<6.1	65.7	--	<0.6	1.6	--	--	--	--	<0.02	--	--	<7.9	--	--
9/15/2010	--	8.6	--	--	<0.6	--	--	--	--	--	<0.02	--	--	10.5	--	--
12/16/2010	--	<5.9	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.7	--	--
3/10/2011	--	<9.6	--	--	<0.8	--	--	--	--	--	0.04	--	--	<7.3	--	--
6/15/2011	--	<9.6	--	--	<0.8	--	--	--	--	--	<0.02	--	--	<7.3	--	--

1. SSIs = Bold; GPS Exceedance = Gray background
 2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
 3. Strikethrough = Data removed from baseline
 4. Grayed out = Data previously used but replaced

Table 10
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data

MW-8942D
(Downgradient)

CCR Appendix IV Constituents															
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	Detect	12	35.91	Detect	Detect	4.01	Detect	TBD	Detect	Detect	Detect	Detect	Detect	Detect	TBD
Calculated Background															
Groundwater Protection Standard															
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
9/27/2011	<6.8	<5.6	65	--	<0.33	1.3	--	--	--	--	<0.12	--	--	<8.7	--
12/20/2011	<1.14	<2.2	54	--	0.29	<5	--	--	--	--	<0.098	--	--	<1.52	--
3/13/2012	--	6	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
6/27/2012	--	9	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
8/28/2012	--	12	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
10/9/2012	--	11	<200	--	<5	11.4	--	--	--	--	<0.2	--	--	<5	--
2/5/2013	<1.1	<2.2	73	--	<5	<5.1	--	--	--	--	<0.2	--	--	<1.5	--
4/16/2013	--	8.8	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
7/16/2013	--	<5	--	--	9.1	--	--	--	--	--	<0.2	--	--	<5	--
10/9/2013	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
1/21/2014	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
4/7/2014	<2	14.2	47.7	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--
7/7/2014	--	8.04	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
10/20/2014	--	11.4	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/23/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
6/24/2015	--	<5	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
9/28/2015	<3.7	11.1	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--
11/18/2015	--	21.4	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
3/15/2016	--	6.87	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
6/13/2016	--	11.4	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
9/14/2016	--	12.6	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--
12/6/2016	<2.7	12.4	46.5	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--

1. SSIs = Bold; GPS Exceedance = Gray background
 2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
 3. Strikethrough = Data removed from baseline
 4. Grayed out = Data previously used but replaced

Table 10
Lockwood Hills LLC
Lockwood Ash Disposal Site - Groundwater Analytical Data

MW-8942D
(Downgradient)

CCR Appendix IV Constituents																
Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Total Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)	
	Detect	12	35.91	Detect	Detect	4.01	Detect	TBD	Detect	Detect	Detect	Detect	Detect	Detect	Detect	TBD
Calculated Background																
Groundwater Protection Standard																
MCL	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL	MCL
6.0	10.0	2000	0.004	5.0	100	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002	0.002
3/30/2017	<2.7	8.34	<200	--	<5	<5	--	--	--	--	<0.2	--	--	<5	--	--
6/29/2017	--	6.38	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
9/20/2017	--	8.19	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
12/27/2017	--	13.3	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/29/2018	--	8.96	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
6/21/2018	<1.86	<10	42.8	--	<5	<10	--	--	--	--	<0.2	--	--	<5	--	--
9/27/2018	--	5.88	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
12/13/2018	--	6.24	--	--	<5	--	--	--	--	--	<0.2	--	--	<5	--	--
3/19/2019	--	15	--	<0.002	<5	--	<0.002	1.11	<0.005	<0.02	<0.2	<0.01	<2.06	<5	<0.008	<0.008
6/20/2019	--	<5	--	<0.002	<5	--	<0.002	0.39	<0.005	<0.02	<0.2	<0.01	<1.34	<5	<0.008	<0.008
9/19/2019	<6.7	13.7	40.2	<0.001	<5	<10	<0.001	0.50	<0.005	<0.037	<0.2	<0.01	<1.42	<5	<0.0051	<0.0051
11/21/2019	--	7.95	--	<0.001	<5	--	<0.001	0.39	<0.005	<0.037	<0.2	<0.01	<1.38	<5	<0.0051	<0.0051
3/12/2020	--	10.9	--	<0.001	<5	--	<0.001	0.49	<0.005	<0.037	<0.2	<0.01	<1.52	<5	0.006	0.006
6/24/2020	--	8.59	--	<0.001	<5	--	<0.001	0.62	<0.005	<0.037	<0.2	<0.01	<1.52	<5	<0.0051	<0.0051
9/22/2020	<6.7	12	40.3	<0.001	<5	<10	<0.001	0.57	<0.005	<0.041	<0.2	<0.01	<2.36	<5	<0.0051	<0.0051
12/8/2020	--	9.61	--	<0.001	<5	--	<0.001	0.54	<0.005	<0.037	<0.2	<0.01	<2.37	<5	<0.0051	<0.0051

1. SSIs = Bold; GPS Exceedance = Gray background
2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
3. Strikethrough = Data removed from baseline
4. Grayed out = Data previously used but replaced

Table 11
Lockwood Hills LLC
MW-1842
(Downgradient)

Lockwood Ash Disposal Site - Groundwater Analytical Data

CCR Appendix IV Constituents

Sampling Event Date	Total Antimony (µg/L)	Total Arsenic (µg/L)	Total Barium (µg/L)	Total Beryllium (mg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Cobalt (mg/L)	Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (µg/L)	Total Molybdenum (mg/L)	Radium 226+228 (pCi/L)	Total Selenium (µg/L)	Total Thallium (mg/L)
	TBD	8.06	TBD	Detect	Detect	TBD	TBD	0.77	0.004	Detect	Detect	TBD	2.31	Detect	TBD
	MCL	MCL	MCL	\$257	MCL	MCL	\$257	MCL	\$257	\$257	MCL	\$257	MCL	MCL	MCL
	6.0	10.0	2000	0.004	5.0	100	0.006	4.0	0.015	0.04	0.2	0.1	5.0	50.0	0.002
3/28/18	<2.7	<5	105		<5	<5					<0.2			<5	
6/21/18	<1.86	<40	147		<5	<10					<0.2			<5	
9/27/18		8.06			<5						<0.2			<5	
12/12/18		<5			<5						<0.2			<5	
3/28/19		<5		<0.002	<5	<5	<0.002	<0.2	<0.005	<0.02	<0.2	0.011	<1.68	<5	<0.008
6/19/19		<5		<0.002	<5		<0.002	0.59	<0.005	<0.02	<0.2	0.03	<1.88	<5	0.003
9/18/19	<6.7	<40	74.7	<0.001	<5	<10	0.002	0.72	<0.005	<0.037	<0.2	0.018	0.44	<5	<0.0051
11/20/19		<5		<0.001	<5		0.002	0.25	0.008	<0.037	<0.2	0.019	0.91	<5	<0.0051
3/12/20		6.2		<0.001	<5		0.001	0.64	<0.005	<0.037	<0.2	0.021	1.44	<5	<0.0051
6/24/20		<5		<0.001	<5		<0.001	0.76	<0.005	<0.037	<0.2	0.019	<1.54	<5	<0.0051
9/22/20	<6.7	<40	35.5	<0.001	<5	<10	<0.001	0.80	<0.005	<0.041	<0.2	0.018	<1.83	<5	<0.0051
12/8/20		<5		<0.001	<5		<0.001	0.74	<0.005	<0.037	<0.2	0.020	<2.04	<5	<0.0051

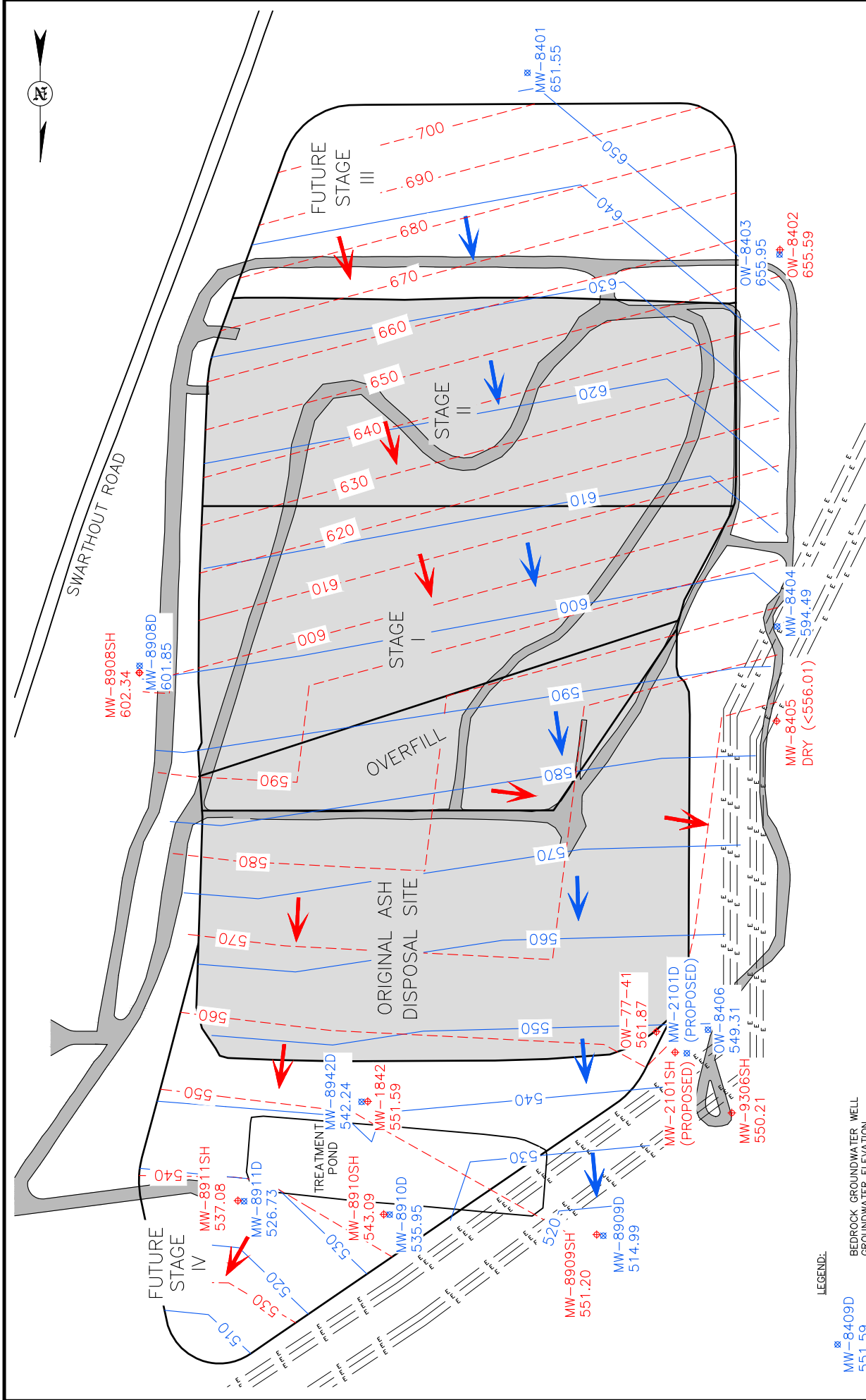
Calculated Background

Groundwater Protection Standard

1. SSIs = Bold; GPS Exceedance = Gray background
 2. Baseline data used to calculate trigger values in italics and bracketed by thick lines
 3. Strikethrough = Data removed from baseline
 4. Grayed out = Data previously used but replaced

Attachment C

Site Plan



**BEDROCK AND GLACIAL TILL
POTENTIOMETRIC SURFACES**
LOCKWOOD HILLS CCR RULE ANNUAL REPORT

LOCKWOOD HILLS LLC
TOWN OF TORREY, STATE OF NEW YORK

EnSol, Inc.
Environmental Solutions

661 MAIN STREET
NIAGARA FALLS, NY 14301
PHONE (716) 285-3920
FAX (716) 285-3928

JANUARY 2021

PN: 31-0021

FIGURE 1

NOTES:

- THE GENERALIZED POTENTIOMETRIC CONTOURS SHOWN HEREON ARE COMPUTER GENERATED FROM WATER LEVEL READINGS OBTAINED IN THE FIELD ON 12/7-8/20. ACTUAL CONDITIONS MAY VARY.
- MONITORING WELL MW-8910SHR WILL REPLACE MW-8910SH.

- MW-8409D
551.59
- GENERALIZED POTENTIOMETRIC BEDROCK CONTOUR
- GENERALIZED POTENTIOMETRIC BEDROCK FLOW ARROW
- GLACIAL TILL GROUNDWATER WELL
MW-8409SH
551.59
- GENERALIZED POTENTIOMETRIC GLACIAL TILL CONTOUR
- GENERALIZED POTENTIOMETRIC GLACIAL TILL FLOW ARROW

