



**L.G. EVERIST, INC.**

ROCK SOLID SINCE 1876

7321 E. 88TH AVENUE, SUITE 200

HENDERSON, COLORADO 80640

PHONE 303-287-9606 • FAX 303-289-1348

June 1, 2023

Division of Reclamation, Mining, and Safety  
Department of Natural Resources  
1313 Sherman Street, Room 215  
Denver, CO 80203

**RE: 112c Reclamation Permit - Attachments for Annual Fee and Annual Report**

To Whom It May Concern:

PERMITTEE:	<b>L. G. Everist, Inc.</b>
PERMIT NO.:	<b>M-1999-120</b>
OPERATION NAME:	<b>Fort Lupton Sand and Gravel Mine</b>
ANNIVERSARY DATE:	<b>June 1 (annually)</b>
ANNUAL FEE:	<b>\$791.00</b>

The DRMS Annual Report for Fort Lupton Sand and gravel (M-1999-120) has been submitted online. The annual fee has been paid online with a credit card.

Enclosed with this letter are the attachments for the DRMS Annual Report. They include:

Exhibit F - Reclamation Plan Map - which shows the current permit area and reclamation plan.

- Areas are marked to show active mining areas, and recently sloped and seeded areas.
- Phases with active mining areas in 2023 are Blue Ribbon, Swingle South, Fort Lupton West.
- The Vincent West phase was released from the DRMS permit in Aug-2022.

Groundwater Monitoring Report

- Includes data review, recent data, and active wells map.

If you have any questions, feel free to contact me at 303-286-2247 or [lmshults@lgeverist.com](mailto:lmshults@lgeverist.com).

Sincerely,

Lynn Mayer Shults  
Regulatory Manager

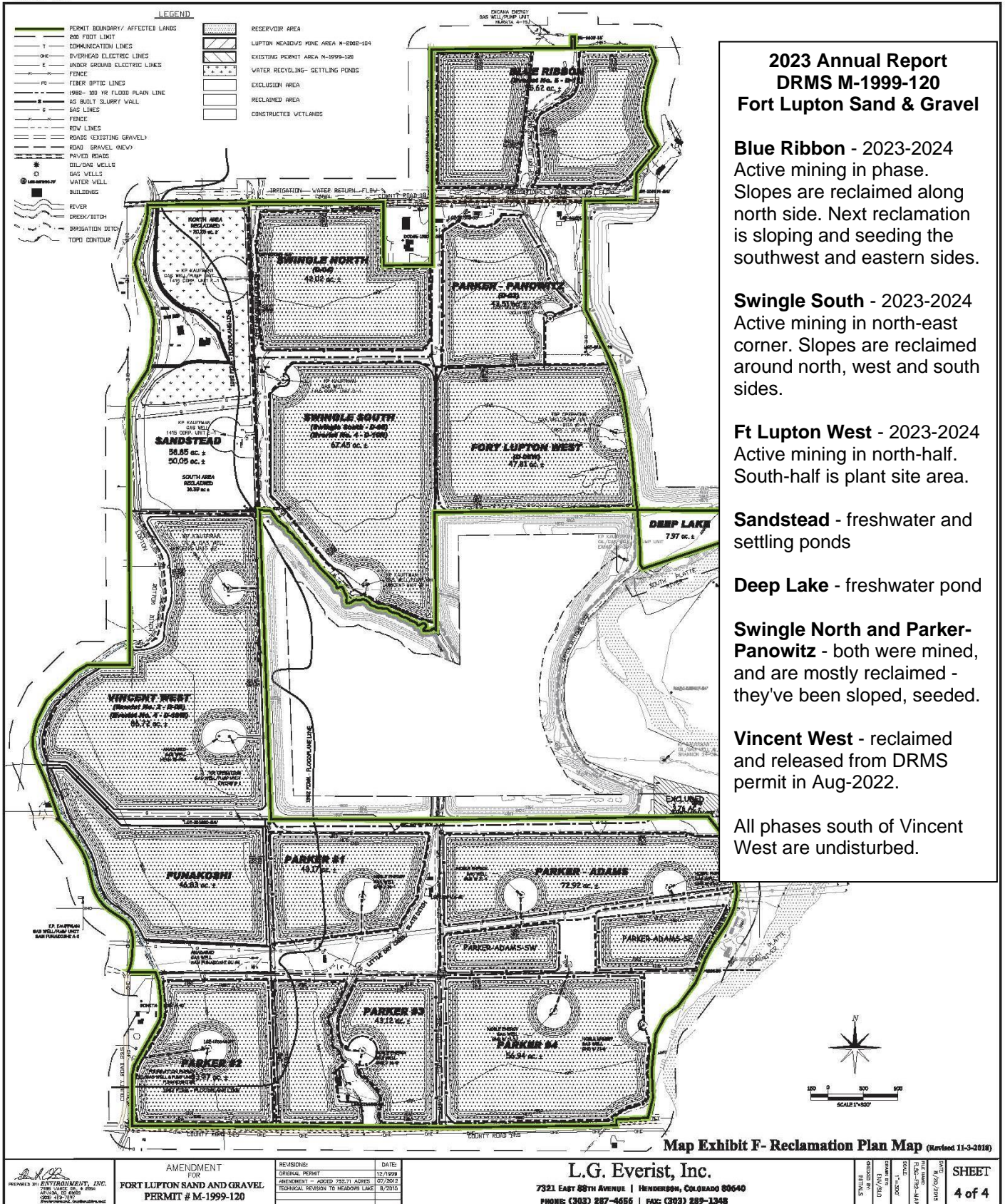
cc: L.G. Everist - Chris Wilkins, Fort Lupton Site Manager

attached:

- Reclamation Plan Map
- Groundwater Monitoring Report - data review, data, wells map



Oct 2, 2014 - 10:00:00



## DRMS ANNUAL REPORT - GROUNDWATER MONITORING REPORT

SITE: L.G. Everist, Inc. - Fort Lupton Sand and Gravel, M-1999-120

DATE: Anniversary date - June 1, 2023

**Fort Lupton Sand and Gravel's Groundwater Monitoring Report** includes monitoring well data from January-2022 through May-2023 and a map with locations of the active groundwater monitoring wells in and around the active mining operation. Prior data has been submitted in prior annual reports. The map shows the active monitoring well locations (MW = monitoring well). (Note: Monitoring wells that have been mined out as mining progresses no longer exist, and so are not on the map or listed in the data.)

The majority of the monitoring wells have maintained groundwater levels within their baseline ranges established in L.G. Everist's (LGE) final adequacy response for the DRMS permit amendment in October-2012. This includes wells in areas where we are not yet mining, and also wells outside the perimeters of slurry walls - showing that the water is flowing around the slurry walls in natural patterns.

A few monitoring wells at Fort Lupton have fluctuated in and out of their baseline ranges. L.G. Everist has investigated the data and compared monitoring well results with their locations and nearby activities. Most wells that have been outside of baseline ranges are internal to LGE operations, and any fluctuating water levels would only affect the operator, so no mitigation is necessary. Some external wells that are outside of baseline ranges have been affected by the unlined mining operations in a neighboring mine (see details below), or other causes (see below). For these wells, LGE's lined operations are not the cause of the groundwater decrease or increase, so no mitigation is required by LGE.

**ACTIVE WELLS** - Following is a detailed list of all active monitoring wells in and around the active mining operation - with notes on the location and accessibility of the wells, the groundwater level data for the reporting period, and explanations of the raw data and any contributing external (or internal) factors.

Any other well changes, investigation, and mitigation is also noted in this report. In general, there have been no adverse effects on neighbors with any of changes indicated in these wells throughout this reporting period, and previous reporting periods. We continue to monitor all our active wells monthly.

**MW-04** - internal to site - located in Fort Lupton West phase, south of the processing plant - within baseline ranges for most months, slightly below baseline in 2022 winter months, back within baseline range in May-2022, then was buried in Oct-2022. Because the well is internal, changes in groundwater levels around this well could only affect LGE, therefore no mitigation is necessary.

**MW-06** - internal to site - located between Swingle-South phase and Sandstead phase, and sometimes not accessible when Little Dry Creek is high. This well has fluctuated slightly in and out of baseline range, but is currently in baseline range. Because the well is internal, changes in groundwater levels around this well could only affect LGE, therefore no mitigation is necessary.

**MW-08** - external - edge of site - located on the south side of CR 18, outside of the Swingle-North slurry wall, and directly across from a neighboring unlined mining operation. MW-08 has been out of baseline range, due to the dewatering of the neighboring unlined mining operation. In June-2022, this well came back into baseline range, and has remained within baseline range since.

*Well history note:* MW-08 was within baseline ranges until the neighboring mining operation on the north side of CR 18 started operations, including dewatering of their unlined mining areas. The other mine's dewatering of their unlined mining areas have affected local groundwater levels, as seen in MW-08. However, there are no residential neighbors nearby, so there have never been any adverse effects to mitigate. And now, the well is back up in baseline range.

**MW-09** - external - north of the Blue Ribbon phase, along County Road 25. The groundwater levels in the well are not in baseline range, but there are no residential neighbors nearby to be affected.

*Note:* The well is located east of CR 25 directly across from the neighboring unlined mining operation mentioned in MW-08. This well was within baseline ranges until the neighboring mining operation started dewatering their unlined mining areas, which have affected the groundwater levels in our monitoring well. The original baseline may no longer be applicable, due to the effects from this neighboring mine. As mentioned above, there are no residential neighbors nearby to be affected.



## **DRMS ANNUAL REPORT - GROUNDWATER MONITORING REPORT**

**SITE:** L.G. Everist, Inc. - Fort Lupton Sand and Gravel, M-1999-120

**DATE:** Anniversary date - June 1, 2023

**MW-11** - external - out of permit - located on the south side of CR 18, outside of the reclaimed and released Hill-Oakley phase's slurry wall, and across from the Blue Ribbon phase. Groundwater levels have remained within the baseline range for the past year, and are currently within baseline levels.

**MW-14** - internal to site - located in the southeast corner of the Parker-Panowitz phase, within an approved slurry wall. Groundwater levels are below baseline ranges, which indicates that the approved slurry wall is working. Because the well is internal, changes in groundwater levels around this well could only affect LGE, therefore no mitigation is necessary.

*Note:* The Parker-Panowitz phase is completely mined and the reclamation sloping is complete.

**MW-20** - edge of site - this well is located at the southwest corner of the Sandstead phase. This well has mostly stayed within baseline ranges for the past year. From Aug-Nov-2022, the well levels were slightly above baseline ranges, then in Dec-2022 the well levels were back in baseline range, and have remained in baseline range since. No effects on any residential neighbors.

**MW-21** - internal to site - this well is located along the south side of the Sandstead phase. This well has mostly stayed within baseline ranges for the past year. From Sep-Oct-2022, the well levels were slightly above baseline ranges, then in Nov-2022 the well levels were back in baseline range, and have remained in baseline range since. Because the well is internal, changes in groundwater levels around this well could only affect LGE.

**MW-24** - internal to site - this well is located along the east side of the Sandstead phase, with the Swingle-North phase to the east. This well has stayed within baseline ranges.

**MW-25** - edge of site - this well is located at the northeast corner of the Sandstead phase, on the edge of the freshwater pond, and across CR 18 from the unlined mining operation first mentioned in MW-08. This well has mostly stayed within baseline ranges for the past year. From Sep-Oct-2022, and in Feb-2023, the well levels were slightly above baseline ranges, then back in baseline in March-2023. There have never been adverse effects on residential neighbors.

**MW-26, MW-27, MW-28, MW-29, MW-30, MW-31** - all six of these wells are located in the south third of the site where mining has not yet begun. Once mining starts in this area, MW-30 will be internal to the site, the other five wells are located along site boundaries. All wells stayed within baseline ranges for the past year, except MW-26 was slightly low in Apr-May-2022, and MW-27 was slightly high in May-2023. Because there are no LGE mining operations occurring anywhere near these wells, the temporary changes were not caused by LGE. The causes of the temporary groundwater level change could be a combination of natural (precipitation changes throughout Colorado), agricultural, or possibly public (road work). There were no effects on any neighbors.

**MW-32** - was internal to site, now edge of site - because it is located at the southeast corner of the lined and released Meadows Lake phase, which is also the northeast corner of south end of the site where mining has not begun. The well was within baseline ranges for all but May-2023, when it has gone slightly over baseline range. There were no effects on any neighbors.

**MW-33** - internal to site, now edge of permit area - this well is located at the southeast corner of the Vincent West phase, which was released from the DRMS permit in August-2022. The well has been within baseline ranges throughout the reporting period. It has been inaccessible for a few months, due to a wasp nest. Because the well is internal, changes in groundwater levels could only affect LGE.

**MW-34** - edge of site - located at the southwest corner of the Vincent West phase, which was released from the DRMS permit in August-2022. This well has always stayed within baseline ranges. No effects on any residential neighbors.

**MW-37** - was edge of site, now out of permit - located along the western side of the Vincent West phase, which was released from the DRMS permit in August-2022. This well has always stayed within baseline ranges. No effects on any residential neighbors.

## **DRMS ANNUAL REPORT - GROUNDWATER MONITORING REPORT**

**SITE:** L.G. Everist, Inc. - Fort Lupton Sand and Gravel, M-1999-120

**DATE:** Anniversary date - June 1, 2023

**MW-45** - internal to site - on the north side of Parker-Panowitz phase, which is located on the south side of CR 18, across from the Blue Ribbon phase on the north side of the road. This well has stayed mostly within baseline ranges for the past year, just being slightly low in early 2022, and slightly high in May-2023. Because the well is internal - located between two mining phases, changes in groundwater levels around this well could only affect LGE.

**MW-52** - internal to site - located within the Swingle-South slurry wall, in the north-east corner. Groundwater levels dipped below the baseline range starting in March-2020, which indicates that the approved slurry wall is working. Because the well is internal, changes in groundwater levels around this well could only affect LGE, therefore no mitigation is necessary.

**MW-54** - internal to site - this well is located in the middle of the Sandstead phase, between the freshwater pond (to the north) and settling ponds (to the south). This well was within baseline ranges until July-2022, when groundwater levels increased, so the well is now slightly above baseline range. There have been no effects on any residential neighbors.

**MW-55** - edge of site - this well located on the west side of the Sandstead phase, on the west side of the freshwater pond. This well was within baseline ranges until September-2022, when groundwater levels increased, so the well has been slightly above baseline range. No effects on any residential neighbors.

### **ATTACHED**

- DATA - Groundwater Monitoring Wells Data from January-2022 through May-2023

- MAP - Groundwater Monitoring Wells Map - Active Wells

<b>FORT LUPTON S&amp;G MONITOR WELL NO.</b>	MW-04 (internal)	MW-06 (internal)	MW-08 (edge of site)	MW-09 (offsite-far)	MW-11 (offsite-close)	MW-14 (internal)	MW-20 (edge of site)	MW-21 (internal)
<b>NORTHING, FT</b>	1283290.42	1283728.10	1285900.46	1287365.87	1285909.77	1284654.27	1283584.51	1283603.67
<b>EASTING, FT</b>	3187818.84	3185934.31	3186592.51	3187426.10	3189221.98	3188830.71	3185761.31	3186195.02
<b>ELEVATION (TOG), FT</b>	4,875.66	4,873.53	4,869.20	4,866.27	4,872.46	4,874.69	4878.63	4876.93
<b>CASING HEIGHT, FT</b>	2.36	3.02	3.18	3.20	2.83	2.88	3.24	3.31
<b>ELEVATION (TOC), FT</b>	4,878.02	4,876.55	4,872.38	4,869.47	4,875.29	4,877.57	4881.87	4880.24

					<b>4,877.94</b>			
<b>HIGH</b> (max of first 2 yrs + 1)	<b>4,875.43</b>	<b>4,874.39</b>	<b>4,866.30</b>	<b>4,863.12</b>	<b>4,865.57</b>	<b>4,867.40</b>	<b>4,876.48</b>	<b>4,875.84</b>
<b>LOW</b> (min of first 2 yrs - 1)	<b>4,868.67</b>	<b>4,867.68</b>	<b>4,857.83</b>	<b>4,855.35</b>	<b>4,861.49</b>	<b>4,861.77</b>	<b>4,859.47</b>	<b>4,854.54</b>

01/28/22	4,867.94	4,866.65	4,844.83	4,836.91	4,861.03	4,851.95	4,869.89	4,869.72
02/27/22	4,868.80	4,866.70	4,844.43	4,836.58	4,861.81	-	4,869.92	4,869.09
03/24/22	4,868.61	4,865.15	4,844.18	4,834.97	4,862.19	4,855.37	4,870.35	4,869.30
04/20/22	4,868.53	4,863.22	4,844.62	4,835.60	4,860.85	4,854.68	4,871.25	4,869.40
05/16/22	4,868.79	4,866.24	4,851.80	4,836.03	4,861.55	4,855.21	4,871.49	4,870.26
06/24/22	4,869.86	4,866.84	4,862.09	4,836.64	4,862.86	4,858.32	4,872.54	4,871.31
07/26/22	4,869.43	4,865.07	4,862.36	4,836.88	4,862.83	4,858.79	4,875.56	4,872.92
08/25/22	4,869.70	4,866.99	4,863.62	4,836.99	4,862.72	4,858.61	4,877.43	4,874.82
09/30/22	4,870.04	4,870.33	4,862.59	4,837.14	4,861.79	4,858.39	4,878.23	4,876.91
10/26/22	buried	4,870.11	4,862.34	4,837.02	4,862.15	4,858.44	4,877.86	4,875.87
11/09/22	-	4,871.91	4,862.58	4,837.05	4,862.94	4,858.27	4,877.07	4,875.41
12/20/22	-	4,866.30	4,861.43	no access	4,862.34	4,858.22	4,874.97	4,873.04
01/16/23	buried	4,866.30	4,861.08	4,832.22	4,862.49	4,858.27	4,874.37	4,872.14
02/21/23	-	4,866.27	4,860.53	4,830.62	4,862.62	4,858.37	4,873.07	4,871.44
03/30/23	-	4,869.85	4,860.38	4,829.82	4,862.79	4,858.32	4,872.87	4,872.34
apr - avg M&M	-	4,869.87	4,862.73	4,835.29	4,864.16	4,859.99	4,873.37	-
05/17/23	-	4,869.90	4,865.08	4,840.77	4,865.54	4,861.67	4,873.87	destroyed 5/16

Groundwater Monitoring Wells' Notes from Jan-2022 to May-2023 (submitted with DRMS Annual Rpt Jun-2023)	internal	internal	edge of site (next to NCCI)	offsite-far (next to NCCI)	offsite-close (out of permit, but close )	internal	edge of site	internal
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### KEY

RED - low, GREEN - high

<b>FORT LUPTON S&amp;G MONITOR WELL NO.</b>	MW-24 (internal)	MW-25 (edge of site)	MW-26 (south end)	MW-27 (south end)	MW-28 (south end)	MW-29 (south end)	MW-30 (south end)	MW-31 (south end)
<b>NORTHING, FT</b>	1285220.96	1286191.14	1278473.10	1278442.03	1278427.71	1279705.24	1279612.81	1279702.73
<b>EASTING, FT</b>	3186629.91	3186587.77	3190083.81	3188252.28	3185716.95	3185920.94	3188258.35	3190495.90
<b>ELEVATION (TOG), FT</b>	4870.81	4868.97	4887.10	4885.69	4895.11	4891.42	4883.91	4884.66
<b>CASING HEIGHT, FT</b>	3.08	3.68	2.94	2.95	2.60	3.30	2.83	3.53
<b>ELEVATION (TOC), FT</b>	4873.89	4872.65	4890.04	4888.64	4897.71	4894.72	4886.74	4888.19

<b>HIGH</b> (max of first 2 yrs + 1)	<b>4,870.89</b>	<b>4,866.45</b>	<b>4,882.02</b>	<b>4,884.28</b>	<b>4,888.31</b>	<b>4,887.23</b>	<b>4,882.70</b>	<b>4,879.49</b>
<b>LOW</b> (min of first 2 yrs - 1)	<b>4,856.19</b>	<b>4,853.95</b>	<b>4,878.03</b>	<b>4,880.84</b>	<b>4,884.39</b>	<b>4,880.89</b>	<b>4,877.04</b>	<b>4,875.56</b>

01/28/22	4,862.06	4,855.03	4,880.15	4,882.05	4,885.50	4,883.40	4,880.17	4,876.98
02/27/22	4,861.68	4,854.50	4,879.04	4,882.03	4,885.30	4,883.38	4,880.15	4,876.90
03/24/22	4,861.21	4,854.08	4,878.70	4,881.91	4,885.57	4,883.74	4,880.26	4,877.00
04/20/22	4,860.68	4,854.34	4,877.93	4,881.38	4,885.98	4,884.19	4,879.86	4,876.58
05/16/22	4,863.56	4,859.21	4,877.91	4,881.89	4,886.69	4,884.80	4,880.46	4,876.94
06/24/22	4,865.30	4,863.91	4,879.11	4,883.10	4,887.04	4,885.09	4,881.43	4,877.41
07/26/22	4,864.93	4,864.43	4,878.93	4,883.36	4,887.01	4,885.58	4,880.95	4,877.27
08/25/22	4,866.22	4,866.00	4,879.52	4,883.83	4,887.11	4,885.59	4,881.22	4,877.46
09/30/22	4,868.96	4,868.21	4,878.28	4,883.61	4,887.22	4,885.21	4,881.80	4,876.74
10/26/22	4,869.08	4,868.53	4,878.22	4,883.38	4,887.24	4,885.01	4,882.07	4,876.71
11/09/22	4,869.31	not accessible	4,878.66	4,883.96	4,886.50	4,884.28	4,881.81	4,876.89
12/20/22	4,867.57	not accessible	4,878.89	4,883.74	4,886.41	4,884.32	4,881.54	4,876.94
01/16/23	4,867.39	not accessible	4,879.04	4,883.34	4,886.36	4,884.42	4,881.44	4,876.99
02/21/23	4,866.69	4,866.52	4,878.99	4,883.14	not accessible	not accessible	4,881.19	4,877.09
03/30/23	4,867.59	4,865.75	4,878.64	4,882.72	4,886.26	4,884.47	4,881.04	4,876.89
apr - avg M&M	4,867.36	-	4,879.81	4,883.58	4,886.93	4,884.84	4,881.54	4,878.09
05/17/23	4,867.14	not accessible	4,880.99	4,884.44	4,887.61	4,885.22	4,882.04	4,879.29

Groundwater Monitoring Wells' Notes from Jan-2022 to May-2023 (submitted with DRMS Annual Rpt Jun-2023)	internal	edge of site	south end	south end	south end	south end	south end	south end
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### KEY

RED - low, GREEN - high

<b>FORT LUPTON S&amp;G MONITOR WELL NO.</b>	MW-32 (inter/edge)	MW-33 (inter/edge)	MW-34 (edge of site)	MW-37 (out of permit)	MW-45 (internal)	MW-52 (internal)	MW-54 (internal)	MW-55 (edge of site)
<b>NORTHING, FT</b>	1281049.34	1281023.27	1280976.36	1282451.42	1286212.47	1284875.58	1285027.37	1285705.08
<b>EASTING, FT</b>	3190074.13	3186869.81	3185167.73	3185753.31	3189018.10	3188125.52	3186385.20	3185816.56
<b>ELEVATION (TOG), FT</b>	4882.40	4883.59	4887.04	4883.69	4870.99	---	---	---
<b>CASING HEIGHT, FT</b>	3.07	2.70	3.72	3.49	3.28	---	---	---
<b>ELEVATION (TOC), FT</b>	4885.47	4886.29	4890.76	4887.18	4874.27	4878.28	4887.35	4879.99

<b>HIGH</b> (max of first 2 yrs + 1)	<b>4,876.72</b>	<b>4,883.83</b>	<b>4,887.69</b>	<b>4,879.98</b>	<b>4,863.02</b>	<b>4,874.40</b>	<b>4,866.40</b>	<b>4,868.59</b>
<b>LOW</b> (min of first 2 yrs - 1)	<b>4,873.15</b>	<b>4,877.98</b>	<b>4,878.96</b>	<b>4,864.78</b>	<b>4,851.42</b>	<b>4,858.08</b>	<b>4,854.65</b>	<b>4,854.99</b>

01/28/22	4,874.52	4,881.55	4,883.84	4,871.61	4,848.38	4,852.61	4,862.88	4,862.54
02/27/22	4,874.55	4,881.81	4,883.76	4,870.78	4,851.93	4,851.86	4,862.46	4,862.55
03/24/22	4,874.84	4,881.67	4,884.04	4,871.46	4,853.42	4,851.57	4,862.85	4,860.49
04/20/22	4,874.23	4,881.76	4,884.33	4,872.30	4,850.00	4,851.56	4,863.17	4,861.43
05/16/22	4,874.86	4,882.02	4,884.75	4,872.49	4,852.68	4,851.72	4,864.46	4,863.24
06/24/22	4,875.75	4,882.20	4,885.33	4,873.54	4,857.50	4,851.79	4,866.02	4,865.46
07/26/22	4,875.21	4,882.08	4,886.00	4,877.35	4,858.84	4,852.03	4,866.43	4,866.54
08/25/22	4,875.31	4,881.96	4,886.38	4,879.44	4,857.65	4,852.44	4,868.06	4,867.86
09/30/22	4,875.39	4,881.90	4,885.85	4,879.89	4,855.72	4,852.67	4,870.29	4,870.00
10/26/22	4,875.46	4,882.31	4,885.35	4,879.32	4,857.95	4,852.07	4,870.08	4,870.35
11/09/22	4,874.84	wasp nest	4,885.94	4,878.20	4,858.70	4,852.34	4,870.38	4,870.26
12/20/22	4,874.47	-	4,885.71	4,878.38	4,858.07	4,851.88	4,869.25	4,869.74
01/16/23	4,874.72	wasp nest	4,885.41	4,877.68	4,857.97	4,852.28	4,868.85	4,869.14
02/21/23	4,874.97	-	not accessible	4,876.58	4,857.92	4,852.68	4,868.25	4,868.64
03/30/23	4,874.77	-	4,885.21	4,876.03	4,859.02	4,853.03	4,868.35	4,867.64
apr - avg M&M	4,876.14	-	4,885.38	4,875.33	4,861.44	4,852.53	4,868.57	4,869.39
05/17/23	4,877.52	-	4,885.56	4,874.63	4,863.87	4,852.03	4,868.80	4,871.14

Groundwater Monitoring Wells' Notes from Jan-2022 to May-2023 (submitted with DRMS Annual Rpt Jun-2023)	internal/edge	internal/edge (Aug-2022)	edge of site	out of permit (Aug-2022)	edge of site	internal	internal	edge of site
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### KEY

RED - low, GREEN - high





Active MW



				REV. #	BY	DATE	DESCRIPTION
				A	-	-	-
DRAWN BY: JS							
DATE: 05/22/2022							
SCALE: Not to scale							
SIZE: 11x17							
		L.G. Everist, Inc. Aggregate Producers 7321 E. 88th Ave, Suite 200 Henderson, CO, 80640 (303) 286-2245					
		Active MW Locations 2021 / 2022					
		L.G.E. Ft. Lupton Resource Weld County, CO					