

Joe Lombardo  
Governor

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MS  
Director



DEPARTMENT OF  
HEALTH AND HUMAN SERVICES  
NEVADA DIVISION of PUBLIC  
and BEHAVIORAL HEALTH



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May 30, 2023

MEMORANDUM

To: Beatty File

From: Corey Creveling, Radiation Control Supervisor *CRC*

Subject: Beatty Inspection Summary May 22, 2023

An inspection of the Beatty Low-Level Radioactive Waste landfill (closed) was conducted on May 22, 2023, by Corey Creveling. The site is properly secured with an outside perimeter fence placed on the western and southern sides of the site. An interior boundary has been established around the entire area surrounding the cap. Caution Radioactive Materials signs are posted at the boundary to clearly mark the location of the low-level radioactive waste area. The radiological survey was performed using BNC Model SAMpack-120 with serial number BSN 120069. The survey was conducted by driving the backpack around the site boundary access roads and by walking in a grid pattern across the cap to detect radiological anomalies. None were detected. Site vehicles undergoing repair were parked in the northeast corner which blocked the road near the heavy equipment shop preventing driving around the full perimeter but back tracking and driving to the other side of the perimeter allowed full survey completion by vehicle. Dose rate readings on the cap remain about twice background,\* as measured in the background location. The cap was in good condition with visible signs of repairs following the rain events and resulting erosion from the rain events on February 25, 2023, and a smaller rain event on March 21, 2023. The repair was completed by US Ecology after April 6, 2023 following the normal end of the rainy season.

Status of Previous Inspection Items:

The markers for the trenches are not in place on the cap and will not be replaced until the completion of the next addition of material to the cap tentatively scheduled for 2027. They remain stacked off to the side of the cap, near the southwest corner.

Site Observations:

Radiological Postings Adequate: Yes

Site Boundary and Access Road Maintained: Yes

Erosion, Fissures, Water Pooling, or Subsidence Concerns: All erosion concerns from the previous inspection were corrected, and there is currently no erosion concerns.

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Rain Since Last Inspection:

February – 0.60”, March – 0.46”, April – 0.00”, May – 0.00”

Radiation Survey Results:

Instruments:

BNC Model SAMpack-120 (BSN 120069)

Calibration date: Daily by self-calibration

Background Location: Between US 95 and the site, at the south-east side of the site entrance gate.

Background measurement: 18 – 25 µrem/hr

Value used for twice background: 50 µrem/hr

Site Boundary Highest Measurement: Within twice background\*

Cap Highest Measurement: Within twice background\*

\*If sustained radiation measurements are above twice background, record the measurement and identify the location. Otherwise, indicate all measurements were within twice background.

For any reading above 0.5 mrem/hr contact a supervisor or the State of Nevada Radiation Control Program Manager. (Site Stabilization and Closure Plan Closure Plan for Low-Level Radioactive Waste Management Facility US Ecology, Inc. Beatty, Nevada, submittal date December 1988.)

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Corey Creveling: 775-687-7536, [ccreveling@health.nv.gov](mailto:ccreveling@health.nv.gov)

Beatty 11SSE US Ecology Nevada  
 Monthly Summary for  
 February, 2023

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Deg. Fahrenheit	Max Min	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
<a href="#">1</a>	32				15.7	59 31	53 16			
<a href="#">2</a>	33	91	4.2	269	14.2	45 60 31	39 64 18	19	35	0.00
<a href="#">3</a>	34	30	6.0	279	16.7	46 61 33	38 66 16	20	35	0.00
<a href="#">4</a>	35	29	5.8	182	16.8	48 60 33	35 60 18	19	36	0.00
<a href="#">5</a>	36	23	11.9	303	39.3	53 62 40	32 55 13	22	39	0.00
<a href="#">6</a>	37	135	20.5	329	45.3	47 54 41	33 43 23	20	36	0.00
<a href="#">7</a>	38	31	8.2	340	24.7	49 61 37	31 47 19	19	36	0.00
<a href="#">8</a>	39	5	9.3	336	35.4	54 68 37	27 56 7	16	38	0.00
<a href="#">9</a>	40	5	10.4	130	34.6	52 63 37	21 39 12	13	37	0.00
<a href="#">10</a>	41	43	5.7	214	20.6	46 59 33	26 48 12	10	33	0.00
<a href="#">11</a>	42	3	8.1	37	23.0	50 61 36	19 40 10	8	34	0.00
<a href="#">12</a>	43	0	13.2	342	32.5	54 64 37	19 35 10	12	37	0.00
<a href="#">13</a>	44	1	13.2	219	36.2	55 66 47	21 44 12	15	39	0.00
<a href="#">14</a>	45	200	23.1	336	62.3	40 49 32	29 58 6	6	30	0.00
<a href="#">15</a>	46	285	28.5	342	54.3	40 50 32	23 36 13	5	28	0.00
<a href="#">16</a>	47	71	5.6	252	32.4	38 52 27	22 37 8	2	27	0.00
<a href="#">17</a>	48	68	3.9	270	13.2	41 59 28	20 33 8	2	29	0.00
<a href="#">18</a>	49	57	4.6	261	13.2	44 62 28	22 39 9	5	31	0.00
<a href="#">19</a>	50	19	5.1	298	21.1	49 68 31	20 35 9	8	34	0.00
<a href="#">20</a>	51	22	8.3	319	27.7	55 69 38	24 35 15	18	39	0.00
<a href="#">21</a>	52	5	10.6	193	52.9	52 68 37	33 70 15	22	39	0.00
<a href="#">22</a>	53	44	16.3	355	43.2	40 48 34	31 43 13	10	30	0.00
<a href="#">23</a>	54	47	11.6	141	31.1	38 48 28	43 68 19	16	30	0.00
<a href="#">24</a>	55	15	20.7	128	43.6	40 48 31	58 71 38	26	34	0.01
<a href="#">25</a>	56	11	15.8	129	43.0	42 50 34	72 93 49	33	38	0.57
<a href="#">26</a>	57	44	7.8	141	17.8	39 45 33	74 96 52	31	35	0.02
<a href="#">27</a>	58	14	12.5	163	27.0	43 54 35	60 77 36	29	37	0.00
<a href="#">28</a>	59	0	11.8	130	27.4	43 53 37	49 66 27	25	35	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Deg. Fahrenheit	Max Min	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	1299								0.60
Ave.	48	11.2	295	30.9	46.1 57.9 34.2	34 54 18	16	34	
Max.	285	28.5		62.3	55 69 47	74 96 52	33	39	0.57
Min.	0	3.9		13.2	38 45 27	19 33 6	2	27	0.00

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.

° 1 ly = 1 cal/cm<sup>2</sup> = 4.1855 J/cm<sup>2</sup> = 3.6855 BTU/ft<sup>2</sup> = .01163 KW-hr/m<sup>2</sup>

Beatty 11SSE US Ecology Nevada  
 Monthly Summary for  
 March, 2023

Day of Month	Day of Year	Total Solar Rad. ly.	Ave. Wind mph	V. Dir. Deg	Max. Wind mph	Air Temperature Mean Deg. Fahrenheit	Max Fahrenheit	Min Fahrenheit	Humidity Mean Percent	Max Percent	Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb Fahrenheit	Total Precip. inches
<a href="#">1</a>	60	0	25.6	3	62.8	38	41	32	68	95	37	28	33	0.04
<a href="#">2</a>	61	5	19.8	320	61.4	40	51	33	38	69	16	15	31	0.00
<a href="#">3</a>	62	61	8.1	319	28.1	43	56	28	49	77	21	23	34	0.00
<a href="#">4</a>	63	30	8.6	204	29.5	47	61	33	44	77	15	23	36	0.00
<a href="#">5</a>	64	3	15.7	136	35.2	47	58	39	43	63	23	24	37	0.00
<a href="#">6</a>	65	46	7.4	146	20.2	44	55	35	50	66	29	26	36	0.00
<a href="#">7</a>	66	168	4.4	263	15.6	44	56	30	47	78	22	23	35	0.00
<a href="#">8</a>	67	1	5.6	293	17.2	43	58	30	45	75	15	20	34	0.00
<a href="#">9</a>	68	37	8.1	160	25.1	49	64	32	31	61	11	16	36	0.00
<a href="#">10</a>	69	18	8.4	141	23.8	57	67	51	53	70	38	40	48	0.00
<a href="#">11</a>	70	0	7.9	285	23.6	57	70	41	53	91	22	37	47	0.00
<a href="#">12</a>	71	2	6.4	161	16.0	57	71	40	42	76	15	32	44	0.00
<a href="#">13</a>	72	3	6.7	192	20.1	57	71	40	39	70	18	30	43	0.00
<a href="#">14</a>	73	34	13.9	137	33.5	53	56	51	65	86	37	41	47	0.05
<a href="#">15</a>	74	4	11.3	87	36.8	54	64	47	65	90	32	41	47	0.05
<a href="#">16</a>	75	15	9.4	338	28.9	51	63	40	30	57	14	19	37	0.00
<a href="#">17</a>	76	23	5.7	162	21.6	49	66	33	37	74	14	20	37	0.00
<a href="#">18</a>	77	19	6.7	153	22.9	51	64	33	29	64	11	17	37	0.00
<a href="#">19</a>	78	0	10.5	139	32.6	49	55	45	54	76	20	32	41	0.06
<a href="#">20</a>	79	9	6.2	212	20.0	55	65	44	53	86	18	35	45	0.00
<a href="#">21</a>	80	0	14.9	147	29.6	47	54	41	70	92	43	37	42	0.26
<a href="#">22</a>	81	47	9.5	142	24.4	47	58	38	56	78	27	30	39	0.00
<a href="#">23</a>	82		7.2	264	29.8	48	58	36	59	90	31	33	41	0.00
<a href="#">24</a>	83	165	7.1	335	23.7	48	60	35	41	82	21	23	37	0.00
<a href="#">25</a>	84	21	11.7	339	29.7	46	55	40	27	39	16	13	34	0.00
<a href="#">26</a>	85	195	16.0	337	33.1	44	51	36	28	55	12	11	32	0.00
<a href="#">27</a>	86	176	5.2	176	18.7	44	57	31	23	44	7	5	31	0.00
<a href="#">28</a>	87	40	11.3	186	30.9	52	67	33	24	48	9	13	36	0.00
<a href="#">29</a>	88	8	14.5	178	34.7	53	62	45	33	58	13	23	40	0.00
<a href="#">30</a>	89	98	7.7	153	24.3	47	56	38	47	66	30	27	38	0.00
<a href="#">31</a>	90	65	5.6	250	20.0	48	64	31	47	83	20	25	38	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Ave. Wind mph	V. Dir. Deg	Max. Wind mph	Air Temperature Mean Deg. Fahrenheit	Max Fahrenheit	Min Fahrenheit	Humidity Mean Percent	Max Percent	Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb Fahrenheit	Total Precip. inches
Total	1294												0.46
Ave.	43	9.9	182	28.2	48.6	59.8	37.5	45	72	21	25	38	
Max.	195	25.6		62.8	57	71	51	70	95	43	41	48	0.26
Min.	0	4.4		15.6	38	41	28	23	39	7	5	31	0.00

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.

° 1 ly = 1 cal/cm<sup>2</sup> = 4.1855 J/cm<sup>2</sup> = 3.6855 BTU/ft<sup>2</sup> = .01163 KW-hr/m<sup>2</sup>

**Beatty 11SSE US Ecology Nevada**  
 Monthly Summary for  
**April, 2023**

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Deg. Fahrenheit	Max Min	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
<a href="#">1</a>	91	14	5.8	279	14.7	53 70 35	31 57 13	20	38	0.00
<a href="#">2</a>	92	1	7.7	189	19.0	57 73 38	29 54 15	23	41	0.00
<a href="#">3</a>	93	100	26.3	355	56.8	46 55 37	29 67 11	14	34	0.00
<a href="#">4</a>	94	2	23.4	337	40.4	42 51 35	22 37 9	4	30	0.00
<a href="#">5</a>	95	199	5.1	178	17.5	45 60 31	22 40 11	7	32	0.00
<a href="#">6</a>	96	40	5.5	275	16.6	50 68 32	24 43 9	11	35	0.00
<a href="#">7</a>	97	0	6.9	164	21.8	58 73 40	22 42 11	17	40	0.00
<a href="#">8</a>	98	1	6.3	172	17.3	61 75 47	30 47 17	28	45	0.00
<a href="#">9</a>	99	90	4.7	280	16.9	66 85 46	29 52 13	29	47	0.00
<a href="#">10</a>	100	0	6.5	208	26.3	71 88 51	23 46 10	28	49	0.00
<a href="#">11</a>	101				22.3	86 51	46 11			
<a href="#">12</a>	102	10	10.6	144	24.8	69 83 53	24 49 12	29	49	0.00
<a href="#">13</a>	103	0	19.1	328	47.3	60 67 51	17 33 7	13	40	0.00
<a href="#">14</a>	104	26	11.7	294	29.2	59 73 46	14 28 8	9	39	0.00
<a href="#">15</a>	105	34	4.6	237	18.0	62 79 42	17 32 6	14	42	0.00
<a href="#">16</a>	106	0	6.9	227	25.1	66 82 46	20 36 8	20	44	0.00
<a href="#">17</a>	107	0	6.8	193	22.1	66 80 48	23 42 11	25	46	0.00
<a href="#">18</a>	108	6	12.2	274	34.3	62 77 43	17 47 5	11	41	0.00
<a href="#">19</a>	109	47	14.1	319	34.4	55 68 44	13 20 6	4	36	0.00
<a href="#">20</a>	110	3	10.2	314	26.6	61 75 49	13 25 8	9	40	0.00
<a href="#">21</a>	111	0	15.5	327	37.1	68 82 49	21 27 14	26	47	0.00
<a href="#">22</a>	112	0	9.2	324	24.2	69 81 57	23 35 14	29	48	0.00
<a href="#">23</a>	113	0	8.0	268	34.2	72 85 57	21 36 11	28	49	0.00
<a href="#">24</a>	114	0	12.5	304	40.9	74 86 58	15 29 6	21	48	0.00
<a href="#">25</a>	115	0	15.5	329	37.5	69 78 58	12 18 7	13	45	0.00
<a href="#">26</a>	116	0	5.1	313	21.5	69 85 52	13 21 5	15	45	0.00
<a href="#">27</a>	117	0	8.4	312	23.7	74 89 56	12 20 6	16	47	0.00
<a href="#">28</a>	118	0	5.6	264	19.7	77 93 62	13 20 6	21	49	0.00
<a href="#">29</a>	119	0	5.7	244	18.4	77 95 57	13 25 5	19	49	0.00
<a href="#">30</a>	120	2	11.0	207	31.7	78 94 57	14 24 6	21	50	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Deg. Fahrenheit	Max Min	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	575								0.00
Ave.	20	10.0	297	27.3	63.3 77.9 47.4	20 37 9	18	43	
Max.	199	26.3		56.8	78 95 62	31 67 17	29	50	0.00
Min.	0	4.6		14.7	42 51 31	12 18 5	4	30	0.00

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.

° 1 ly = 1 cal/cm<sup>2</sup> = 4.1855 J/cm<sup>2</sup> = 3.6855 BTU/ft<sup>2</sup> = .01163 KW-hr/m<sup>2</sup>

## Beatty 11SSE US Ecology Nevada

Monthly Summary for

**May, 2023**

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Deg. Fahrenheit	Max Min	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
<a href="#">1</a>	121	0	20.5	150	38.9	70 83 54	21 42 7	25	48	0.00
<a href="#">2</a>	122	43	14.8	152	32.9	59 72 47	31 54 11	26	44	0.00
<a href="#">3</a>	123	9	9.9	165	26.5	61 73 50	26 41 12	24	44	0.00
<a href="#">4</a>	124	15	12.4	156	33.8	56 66 50	33 45 17	27	42	0.00
<a href="#">5</a>	125	30	8.8	152	23.1	58 71 41	33 64 15	27	43	0.00
<a href="#">6</a>	126	5	11.0	140	23.0	61 73 50	32 54 16	29	45	0.00
<a href="#">7</a>	127	7	6.5	169	20.3	64 77 46	28 49 16	29	46	0.00
<a href="#">8</a>	128	3	9.0	144	21.7	68 82 56	23 42 8	25	47	0.00
<a href="#">9</a>	129	12	6.5	248	23.1	67 79 47	16 34 9	18	45	0.00
<a href="#">10</a>	130	0	11.1	293	27.5	69 81 57	15 23 9	20	46	0.00
<a href="#">11</a>	131	6	5.4	260	24.4	70 84 51	18 30 10	23	47	0.00
<a href="#">12</a>	132	0	7.7	341	31.0	76 88 58	16 26 9	24	50	0.00
<a href="#">13</a>	133	0	11.8	345	34.3	79 89 66	13 20 8	22	51	0.00
<a href="#">14</a>	134	0	9.8	168	31.5	80 93 63	17 28 9	30	53	0.00
<a href="#">15</a>	135	0	8.4	255	30.4	79 95 59	18 40 7	28	52	0.00
<a href="#">16</a>	136	0	7.0	176	28.1	82 95 66	15 23 9	29	54	0.00
<a href="#">17</a>	137	1	7.5	258	39.6	83 97 65	19 35 9	35	56	0.00
<a href="#">18</a>	138	0	7.4	254	26.4	84 98 67	14 26 8	29	54	0.00
<a href="#">19</a>	139	0	7.3	130	27.7	83 98 64	16 24 11	32	55	0.00
<a href="#">20</a>	140	0	10.4	114	35.5	80 96 68	31 49 15	45	58	0.00
<a href="#">21</a>	141	2	6.1	233	31.2	81 95 60	29 61 13	42	58	0.00
<a href="#">22</a>	142	4	6.2	189	20.9	82 94 65	25 44 11	42	58	0.00
<a href="#">23</a>	143	0	11.1	185	30.0	82 96 67	23 41 12	38	57	0.00
<a href="#">24</a>	144	2	12.1	145	30.3	77 89 67	19 36 8	29	52	0.00
<a href="#">25</a>	145	0	7.0	205	29.6	74 87 58	16 38 6	22	49	0.00
<a href="#">26</a>	146	0	8.3	225	26.0	73 87 57	18 34 10	26	49	0.00
<a href="#">27</a>	147	0	12.2	285	28.1	77 89 65	23 37 13	35	54	0.00
<a href="#">28</a>	148	0	9.4	193	30.8	78 92 61	20 35 10	32	53	0.00
<a href="#">29</a>	149	0	12.7	151	38.5	78 89 67	19 35 6	29	52	0.00
<a href="#">30</a>	150			17.4		76 59	26 15			
<a href="#">31</a>	151									

### MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Deg. Fahrenheit	Max Min	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	139								0.00
Ave.	5	9.6	179	28.8	73.5 86.1 58.3	22 38 11	29	50	
Max.	43	20.5		39.6	84 98 68	33 64 17	45	58	0.00
Min.	0	5.4		17.4	56 66 41	13 20 6	18	42	0.00

Data are subject to further review and editing. Please refer any questions to the Western Regional Climate Center.

° 1 ly = 1 cal/cm<sup>2</sup> = 4.1855 J/cm<sup>2</sup> = 3.6855 BTU/ft<sup>2</sup> = .01163 KW-hr/m<sup>2</sup>