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November 19, 2020

MEMORANDUM

To: Beatty File  
From: Haley Brown, Radiation Control Specialist *HB*  
Subject: Beatty Inspection Summary November 19, 2020

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An inspection of the Beatty Low-Level Radioactive Waste landfill (closed) was conducted on November 19, 2020 by Haley Brown. The site is under construction to substantially increase the overall thickness of cover soils, increase mass buffer and improve perimeter drainage. Approximately 675,000 cubic yards of soil will be placed on top of the existing cap. As construction activities are ongoing at the facility, the site was not fully accessible due to safety restrictions for heavy equipment. The site is properly secured and requires a security escort to access the area. Site access is extremely limited due to the heavy equipment used to transport soil to the cap. Escorted access to the west side of the site was obtained and the perimeter fence has been removed and relocated to the western and southern sides of the site to allow for construction vehicle traffic. To date, approximately 479,420 cubic yards of soil have been added to the cap.

**Site Observations:**

**Rain Since Last Inspection:**

August – 0.07”, September – 0.00”, October – 0.00”, and November – 0.19” as of November 22, 2020.

- At 1:13 AM on November 13, 2020, there was a 5.5 magnitude earthquake approximately 21 miles away from Mina, Nevada. There was no apparent damage to the site as a result of this earthquake.

**Radiation Survey Results:**

Instrument: BNC Model SAMpack-120 (BSN 120068) 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: 10 – 16 urem/hr

Value used for twice background: 32 urem/hr

West Side Site Boundary 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.)

Contacts: Karen Beckley: 775-687-7540, [kbeckley@health.nv.gov](mailto:kbeckley@health.nv.gov)  
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Haley Brown: 702-486-3015, [habrown@health.nv.gov](mailto:habrown@health.nv.gov)

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Western Regional Climate Center,  
[wrc@drcl.edu](mailto:wrc@drcl.edu)



## Beatty 11SSE US Ecology Nevada

Monthly Summary for  
**August, 2020**

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. Dir. mph Deg	Air Temperature Mean Max Min Deg. Fahrenheit	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
<a href="#">1</a>	214	706	7.1 185 19.2	94 109 70	7 16 3	19	56	0.00
<a href="#">2</a>	215	708	7.4 193 21.5	90 107 68	7 11 3	16	54	0.00
<a href="#">3</a>	216	676	5.2 216 18.5	92 108 71	7 13 4	18	55	0.00
<a href="#">4</a>	217	677	8.5 151 26.2	88 104 69	8 13 5	19	53	0.00
<a href="#">5</a>	218	661	10.2 149 27.5	87 101 70	14 23 7	30	56	0.00
<a href="#">6</a>	219	652	9.8 140 28.6	85 98 70	15 28 7	31	55	0.00
<a href="#">7</a>	220	676	5.5 208 28.1	83 98 63	12 18 7	23	52	0.00
<a href="#">8</a>	221	667	5.7 245 19.4	85 101 65	11 17 7	24	53	0.00
<a href="#">9</a>	222	672	5.5 251 20.4	87 104 68	11 18 6	24	54	0.00
<a href="#">10</a>	223	676	6.8 207 23.1	89 105 69	9 17 5	22	54	0.00
<a href="#">11</a>	224	670	7.5 205 25.1	89 102 67	10 18 5	23	54	0.00
<a href="#">12</a>	225	671	6.1 203 19.7	88 104 68	10 20 4	22	54	0.00
<a href="#">13</a>	226	514	5.2 248 19.4	89 105 70	13 21 8	31	57	0.00
<a href="#">14</a>	227	629	5.9 250 21.9	93 108 74	16 26 8	38	60	0.00
<a href="#">15</a>	228	625	5.3 245 24.3	97 113 76	14 24 6	37	61	0.00
<a href="#">16</a>	229	619	7.9 242 35.4	101 114 84	12 19 7	37	62	0.00
<a href="#">17</a>	230	622	10.8 273 37.8	102 115 89	12 19 6	37	63	0.00
<a href="#">18</a>	231	605	8.3 250 27.0	100 114 87	13 21 6	39	63	0.00
<a href="#">19</a>	232	589	7.2 258 36.9	97 113 79	14 22 8	39	62	0.00
<a href="#">20</a>	233	576	4.8 222 22.8	96 110 78	15 27 8	39	61	0.00
<a href="#">21</a>	234	557	7.8 187 23.4	94 109 75	13 24 7	34	59	0.00
<a href="#">22</a>	235	546	7.6 166 19.3	94 108 79	19 30 9	45	63	0.00
<a href="#">23</a>	236	548	8.1 199 55.1	90 107 70	27 92 15	50	64	0.07
<a href="#">24</a>	237	598	5.8 208 20.3	91 106 73	24 42 11	48	63	0.00
<a href="#">25</a>	238	611	8.6 180 25.6	93 107 76	16 30 8	39	61	0.00
<a href="#">26</a>	239	623	7.7 173 26.4	91 106 72	13 26 3	29	57	0.00
<a href="#">27</a>	240	621	6.1 226 18.9	89 103 69	13 25 6	30	56	0.00
<a href="#">28</a>	241	601	5.9 220 19.0	87 102 67	13 20 7	29	55	0.00
<a href="#">29</a>	242	606	6.5 199 31.6	88 102 69	11 20 6	24	55	0.00
<a href="#">30</a>	243	607	5.6 249 16.9	84 101 63	8 15 4	16	51	0.00
<a href="#">31</a>	244	587	7.9 269 21.1	84 100 64	9 16 6	19	52	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. V. Dir. mph Deg	Air Temperature Mean Max Min Deg. Fahrenheit	Humidity Mean Max Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	19396						0.07
Ave.	626	7.1 208 25.2	90.9 106.0 71.9	13 24 6	30	57	
Max.	708	10.8 55.1 102 115 89		27 92 15	50	64	0.07
Min.	514	4.8 16.9 83 98 63		7 11 3	16	51	0.00

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

$1 \text{ ly} = 1 \text{ cal/cm}^2 = 4.1855 \text{ J/cm}^2 = 3.6855 \text{ BTU/ft}^2 = .01163 \text{ KW-hr/m}^2$

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Western Regional Climate Center:  
[wrc@dr.edu](mailto:wrc@dr.edu)



## Beatty 11SSE US Ecology Nevada

Monthly Summary for  
September, 2020

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>	245	586	9.4	328	27.5	87 100	73	12 19 6	28	55 0.00
<a href="#">2</a>	246	609	4.4	240	20.9	87 105	67	10 16 6	22	54 0.00
<a href="#">3</a>	247	603	5.0	250	18.3	90 109	70	10 16 6	24	55 0.00
<a href="#">4</a>	248	597	4.8	270	20.2	93 110	73	10 16 6	26	56 0.00
<a href="#">5</a>	249	582	7.4	257	26.9	92 109	73	10 16 7	28	57 0.00
<a href="#">6</a>	250	547	10.6	300	41.2	96 112	75	10 16 5	28	58 0.00
<a href="#">7</a>	251	310	14.8	314	29.7	92 102	78	10 16 6	28	57 0.00
<a href="#">8</a>	252	575	19.8	353	50.1	77 88	64	12 18 7	20	50 0.00
<a href="#">9</a>	253	595	8.4	177	24.1	71 87	55	11 19 5	11	45 0.00
<a href="#">10</a>	254	559	4.5	241	18.5	72 87	53	12 23 7	16	46 0.00
<a href="#">11</a>	255	473	4.5	238	14.9	74 91	56	11 18 7	15	47 0.00
<a href="#">12</a>	256	579	5.0	281	18.3	79 98	56	10 18 5	14	49 0.00
<a href="#">13</a>	257	571	5.5	236	21.2	82 101	62	9 14 5	15	50 0.00
<a href="#">14</a>	258	515	6.2	256	24.7	82 98	63	15 24 9	29	54 0.00
<a href="#">15</a>	259	474	6.7	271	26.4	82 98	66	17 31 6	31	54 0.00
<a href="#">16</a>	260	482	6.9	255	29.0	82 100	63	12 19 7	23	52 0.00
<a href="#">17</a>	261	467	5.3	251	23.7	82 99	63	12 19 6	23	52 0.00
<a href="#">18</a>	262	346	9.2	205	36.5	84 99	71	12 23 5	25	53 0.00
<a href="#">19</a>	263	516	5.4	266	16.4	82 95	69	20 34 10	35	55 0.00
<a href="#">20</a>	264	521	4.4	239	17.5	80 97	63	14 22 7	24	51 0.00
<a href="#">21</a>	265	504	7.0	227	24.6	81 97	63	16 25 10	30	53 0.00
<a href="#">22</a>	266	504	6.2	236	20.3	80 97	61	16 30 7	28	52 0.00
<a href="#">23</a>	267	501	5.5	276	17.7	79 98	62	15 23 8	26	52 0.00
<a href="#">24</a>	268	498	6.4	261	20.2	78 96	61	15 25 6	25	51 0.00
<a href="#">25</a>	269	506	5.1	273	15.9	77 97	61	13 20 7	22	50 0.00
<a href="#">26</a>	270	462	6.0	276	25.2	79 96	62	14 20 8	24	51 0.00
<a href="#">27</a>	271	473	19.1	322	33.5	83 94	75	17 26 8	33	55 0.00
<a href="#">28</a>	272	510	10.7	321	33.2	79 94	68	11 16 6	19	50 0.00
<a href="#">29</a>	273	496	4.4	244	11.9	77 96	61	10 16 6	15	48 0.00
<a href="#">30</a>	274	492	5.6	266	20.7	80 100	62	10 16 5	17	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	15453								0.00
Ave.	515	7.5	276	24.3	81.9 98.3	64.9	13 20 7	23	52
Max.	609	19.8	353	50.1	96 112	78	20 34 10	35	58 0.00
Min.	310	4.4	177	11.9	71 87	53	9 14 5	11	45 0.00

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

$^{\circ} 1 \text{ ly} = 1 \text{ cal/cm}^2 = 4.1855 \text{ J/cm}^2 = 3.6855 \text{ BTU/ft}^2 = .01163 \text{ KW}\cdot\text{hr/m}^2$

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Western Regional Climate Center, [wrcce@dri.edu](mailto:wrcce@dri.edu)

←
Station Summary
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## Beatty 11SSE US Ecology Nevada

Monthly Summary for  
**October, 2020**

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 Percent	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches	
<a href="#">1</a>	275	507	4.3	286	13.6	82	102	65	7	13	3	10	50	0.00
<a href="#">2</a>	276	501	4.9	259	21.0	81	102	59	6	10	3	5	48	0.00
<a href="#">3</a>	277	489	4.6	216	14.6	81	100	64	6	9	3	6	48	0.00
<a href="#">4</a>	278	486	4.1	274	16.4	78	99	59	6	10	3	4	47	0.00
<a href="#">5</a>	279	447	4.9	253	12.7	77	98	59	6	9	3	5	47	0.00
<a href="#">6</a>	280	454	4.4	255	16.7	77	96	59	7	11	4	7	47	0.00
<a href="#">7</a>	281	459	5.2	254	14.9	76	95	58	8	13	5	10	47	0.00
<a href="#">8</a>	282	430	4.9	261	15.6	75	92	60	14	23	9	21	49	0.00
<a href="#">9</a>	283	445	4.5	258	16.8	72	89	54	16	26	8	22	48	0.00
<a href="#">10</a>	284	394	6.5	233	19.5	70	85	56	19	26	13	26	48	0.00
<a href="#">11</a>	285	444	12.3	336	34.4	73	84	55	22	37	12	30	50	0.00
<a href="#">12</a>	286	452	6.2	288	21.7	75	92	59	16	28	6	23	49	0.00
<a href="#">13</a>	287	443	4.3	264	14.1	74	93	57	14	21	7	20	48	0.00
<a href="#">14</a>	288	433	10.7	326	30.6	78	94	57	14	22	9	24	51	0.00
<a href="#">15</a>	289	433	18.1	323	32.5	79	91	70	14	22	9	25	52	0.00
<a href="#">16</a>	290	439	13.6	322	33.7	76	88	63	11	16	7	16	48	0.00
<a href="#">17</a>	291	437	7.0	267	22.3	75	93	60	11	17	6	16	48	0.00
<a href="#">18</a>	292	419	5.5	322	21.7	75	95	59	12	17	6	18	48	0.00
<a href="#">19</a>	293	394	5.4	339	19.9	75	92	61	14	22	9	22	49	0.00
<a href="#">20</a>	294	391	4.7	204	15.8	73	92	58	13	19	7	18	47	0.00
<a href="#">21</a>	295	376	4.7	285	11.6	70	88	54	14	21	8	17	46	0.00
<a href="#">22</a>	296	360	6.0	282	22.5	70	87	53	16	23	9	20	46	0.00
<a href="#">23</a>	297	370	4.6	212	18.4	66	82	54	18	26	10	20	45	0.00
<a href="#">24</a>	298	362	4.4	269	12.4	65	80	51	21	30	13	23	45	0.00
<a href="#">25</a>	299	365	18.8	335	54.5	57	70	42	23	39	7	17	40	0.00
<a href="#">26</a>	300	380	19.0	334	47.9	48	58	36	12	22	5	-5	32	0.00
<a href="#">27</a>	301	380	19.8	339	49.9	60	70	48	12	17	7	7	39	0.00
<a href="#">28</a>	302	390	11.2	353	32.8	66	82	50	13	24	6	13	43	0.00
<a href="#">29</a>	303	382	4.5	174	14.0	65	84	52	12	18	7	9	42	0.00
<a href="#">30</a>	304	375	4.0	280	10.7	63	84	46	13	19	7	10	41	0.00
<a href="#">31</a>	305	377	4.4	262	12.1	63	86	45	12	22	4	6	41	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Deg. Fahrenheit	Max	Min	Humidity Mean Percent	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	13014											0.00
Ave.	420	7.7	299	22.4	71.5	88.5	55.6	13	20	7	15	46
Max.	507	19.8		54.5	82	102	70	23	39	13	30	52
Min.	360	4.0		10.7	48	58	36	6	9	3	-5	32

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

$^{\circ} 1 \text{ ly} = 1 \text{ cal/cm}^2 = 4.1855 \text{ J/cm}^2 = 3.6855 \text{ BTU/ft}^2 = .01163 \text{ KW-hr/m}^2$

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## Beatty 11SSE US Ecology Nevada

Monthly Summary for  
**November, 2020**

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 Percent	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches	
<a href="#">1</a>	306	350	4.2	267	12.0	67	88	51	9	13	6	7	43	0.00
<a href="#">2</a>	307	308	4.6	286	12.8	68	87	54	14	26	7	16	45	0.00
<a href="#">3</a>	308				11.5		85	52						
<a href="#">4</a>	309	349	4.1	289	13.9	68	89	52	19	32	8	22	46	0.00
<a href="#">5</a>	310	321	3.7	299	13.5	69	86	53	17	25	10	20	46	0.00
<a href="#">6</a>	311	167	12.6	192	34.6	67	79	53	19	43	8	22	46	0.00
<a href="#">7</a>	312	241	11.7	161	32.0	50	62	40	43	66	25	27	40	0.00
<a href="#">8</a>	313	174	13.0	91	39.0	40	49	32	61	97	37	27	34	0.19
<a href="#">9</a>	314	356	14.3	313	38.0	41	49	35	42	63	23	19	32	0.00
<a href="#">10</a>	315	345	6.4	290	27.3	43	61	30	41	68	18	19	33	0.00
<a href="#">11</a>	316	317	4.4	249	11.8	47	61	31	40	67	21	22	36	0.00
<a href="#">12</a>	317	331	4.8	191	17.7	51	64	40	29	50	14	18	37	0.00
<a href="#">13</a>	318	321	5.5	246	16.3	50	64	33	29	51	16	17	36	0.00
<a href="#">14</a>	319	333	8.9	306	24.8	52	66	39	28	47	8	17	38	0.00
<a href="#">15</a>	320	328	4.8	288	11.1	53	72	38	23	34	10	14	37	0.00
<a href="#">16</a>	321	327	3.7	283	11.7	57	77	39	22	39	9	16	39	0.00
<a href="#">17</a>	322	314	10.9	164	34.9	60	76	42	20	32	12	17	41	0.00
<a href="#">18</a>	323	276	11.0	138	22.0	64	75	57	25	44	14	27	46	0.00
<a href="#">19</a>	324	307	4.5	260	14.9	55	70	41	42	70	23	30	43	0.00
<a href="#">20</a>	325	168	2.8	337	10.2	54	64	44	24	35	16	17	38	0.00
<a href="#">21</a>	326	297	4.5	237	18.6	56	71	41	22	37	14	18	40	0.00
<a href="#">22</a>	327	306	3.8	242	13.4	54	70	42	22	34	12	15	38	0.00
<a href="#">23</a>	328				10.1		48	41		34	27			
<a href="#">24</a>	329													
<a href="#">25</a>	330													
<a href="#">26</a>	331													
<a href="#">27</a>	332													
<a href="#">28</a>	333													
<a href="#">29</a>	334													
<a href="#">30</a>	335													

**MONTHLY STATISTICS**

	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Max. Deg	Air Temperature Mean Deg. Fahrenheit	Max	Min	Humidity Mean Percent	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	6235											0.19
Ave.	297	6.9	268	19.6	55.5	70.2	42.7	28	45	15	19	40
Max.	356	14.3		39.0	69	89	57	61	97	37	30	46
Min.	167	2.8		10.1	40	48	30	9	13	6	7	32

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>



West Side Site Boundary - Cap Soil Placement

Stated NV-RCP Image



East Side Site View of Phase II Cap Placement