



February 20, 2020

MEMORANDUM

To: Beatty File
From: Haley Brown, Radiation Control Specialist *HB*
Subject: Beatty Inspection Summary February 20, 2020

An inspection of the Beatty Low-Level Radioactive Waste landfill (closed) was conducted on February 20, 2020 by Haley Brown. The radiological survey was performed by driving the BNC Model SAMpack-120 (BSN 120064) backpack around the site boundary access road and in a grid pattern across the cap to detect radiological anomalies. None were detected. Dose rate readings on the cap remain about twice background*, as measured at the background location.

Status of Previous Inspection Items:

The markers for the trenches are not in place on the cap. They are still stacked off to the side of the cap, inside of the fenced area.

Radiological Postings Adequate:

All of the postings along the fence are adequate. However, we may want to add additional radiological postings to the new gate.

Site Observations:

Radiological Postings Adequate:

All of the postings along the fence are adequate. However, we may want to add additional radiological postings to the new gate.

Site Boundary Fence Undamaged and Gate(s) Locked: Yes

Site Boundary, Access Road, and Buffer Areas Maintained: Yes

Rain Since Last Inspection:

November – 0.53”, December – 0.76”, January - 0.00”, and February – 0.00” as of February 20, 2020.

Erosion, Fissures, Water Pooling, or Subsidence Concerns:

- Along the site boundary fence, there is an area of minor erosion due to runoff from the cap. Erosion along the site boundary fence indicates that water is running off the cap efficiently. Pictures of the erosion are included in this report. Since this erosion is minor in nature, RCP will continue to monitor the area for significant changes.

Radiation Survey Results:

Instrument: BNC Model SAMpack-120 (BSN 120064) 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: 14-22 urem/hr

Value used for twice background: 44 urem/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.)

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

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Western Regional Climate Center;
wrccl@dri.edu

Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Wind Dir. Deg	Air Temperature Max. Deg. Fahrenheit	Air Temperature Mean Deg. Fahrenheit	Air Temperature Min Deg. Fahrenheit	Humidity Mean Percent	Humidity Max Percent	Humidity Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb Deg. Fahrenheit	Total Precip. inches	
1	305	387	4.4	213	11.9	54	77	35	5	10	2	-17	33	0.00
2	306	379	4.5	266	11.6	58	77	41	9	14	5	-2	37	0.00
3	307	373	4.8	206	12.2	60	82	43	10	16	5	2	39	0.00
4	308	367	4.3	238	11.6	61	81	44	12	18	6	6	40	0.00
5	309	359	3.7	285	14.9	63	83	49	15	23	9	14	42	0.00
6	310	332	3.9	279	14.4	62	82	47	17	27	8	16	42	0.00
7	311	357	4.4	282	12.0	61	82	44	15	26	7	11	41	0.00
8	312	356	4.2	285	13.0	62	83	45	13	21	6	8	40	0.00
9	313	357	4.3	296	16.4	62	82	46	12	19	6	6	40	0.00
10	314	349	5.2	228	13.9	61	81	46	11	17	6	5	40	0.00
11	315	328	8.5	313	34.4	66	82	51	15	26	9	16	44	0.00
12	316	329	3.3	266	11.1	61	79	46	20	32	11	19	42	0.00
13	317	272	4.4	269	10.3	59	75	44	22	32	13	19	41	0.00
14	318	247	5.4	265	17.6	60	71	48	21	30	14	19	42	0.00
15	319	291	5.3	283	13.6	61	76	49	23	32	15	22	43	0.00
16	320	324	11.3	331	29.1	65	77	51	19	31	12	20	44	0.00
17	321	311	6.9	306	25.9	64	79	51	15	24	7	15	43	0.00
18	322	322	5.9	204	14.9	62	79	48	18	26	11	16	42	0.00
19	323	200	7.7	157	28.5	59	73	43	22	38	11	18	41	0.00
20	324	125	10.5	129	28.5	50	59	40	68	92	35	40	45	0.16
21	325	264	4.3	200	14.1	47	57	39	75	92	49	39	42	0.00
22	326	284	3.6	258	9.3	49	61	41	68	90	38	38	43	0.00
23	327	305	4.7	290	16.6	49	60	39	52	81	27	31	40	0.00
24	328	312	3.0	156	9.2	50	69	37	43	68	14	26	39	0.00
25	329	301	17.8	324	65.6	44	56	34	39	70	15	18	34	0.00
26	330	291	13.7	54	31.1	42	49	36	28	43	16	10	31	0.00
27	331	51	19.7	134	36.6	40	46	36	63	93	24	26	35	0.12
28	332	64	5.8	305	17.6	35	40	31	85	98	64	30	33	0.18
29	333	176	4.9	277	18.6	37	45	32	76	97	49	30	34	0.07
30	334	240	5.0	245	20.1	36	45	27	66	87	39	25	32	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. V. mph	Wind Dir. Deg	Air Temperature Max. Deg. Fahrenheit	Air Temperature Mean Deg. Fahrenheit	Air Temperature Min Deg. Fahrenheit	Humidity Mean Percent	Humidity Max Percent	Humidity Min Percent	Dew Point Deg. Fahrenheit	Wet Bulb Deg. Fahrenheit	Total Precip. inches
Total	8652											0.53
Ave.	288	6.5	269	19.5	54.7	69.6	42.1	32	46	18	39	
Max.	387	19.7		65.6	66	83	51	85	98	64	40	0.18
Min.	51	3.0		9.2	35	40	27	5	10	2	-17	0.00

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

° 1 ly = 1 cal/cm² = 4.1855 J/cm² = 3.6855 BTU/ft² = .01163 K·W-hr/m²

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Station Summary

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Day of Month	Day of Year	Total Solar Rad. ly.	Ave. V. mph	Wind Dir. Deg	Max. mph	Air Temperature Mean Deg. Fahrenheit	Max	Min	Humidity Mean Percent	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb Fahrenheit	Total Precip. inches
1	335	195	5.3	290	17.6	41	49	33	61	80	37	28	35	0.00
2	336	260	3.4	278	9.8	43	58	31	58	81	27	27	36	0.00
3	337	131	2.5	285	7.8	46	56	36	60	79	38	32	39	0.00
4	338	44	5.1	194	17.3	45	47	43	87	95	60	41	43	0.58
5	339	258	4.1	256	13.4	47	59	40	79	98	46	40	44	0.00
6	340	238	4.7	217	13.1	48	59	38	73	90	48	39	43	0.00
7	341	62	7.9	146	20.7	52	56	46	79	87	69	45	48	0.00
8	342	197	7.1	128	28.1	52	62	43	73	85	46	43	47	0.00
9	343	268	14.4	324	33.0	51	58	43	46	68	28	30	41	0.00
10	344	208	4.1	283	11.5	45	58	36	59	82	32	30	38	0.00
11	345	265	3.5	281	11.1	47	61	36	59	83	30	32	39	0.00
12	346	252	4.0	245	11.6	47	60	38	61	80	34	33	40	0.00
13	347	264	5.5	223	14.1	47	59	37	62	83	37	34	41	0.00
14	348	249	6.6	309	20.7	49	61	37	58	88	26	33	41	0.00
15	349	270	19.1	328	40.4	45	51	38	40	79	23	20	35	0.00
16	350	280	12.0	326	27.2	40	48	32	29	47	15	9	29	0.00
17	351	244	2.5	277	9.1	37	50	27	33	53	14	9	28	0.00
18	352	136	4.4	304	13.2	36	47	26	37	56	20	12	28	0.00
19	353	270	3.9	280	12.0	40	57	28	32	50	12	11	30	0.00
20	354	221	3.2	291	10.4	44	59	31	40	57	21	19	34	0.00
21	355	198	3.6	264	10.7	45	57	34	43	64	26	23	36	0.00
22	356	166	5.2	260	20.3	47	58	36	37	59	17	20	36	0.00
23	357	93	8.4	195	22.3	45	51	39	59	92	27	30	38	0.16
24	358	157	3.8	255	10.9	43	51	37	82	96	51	37	40	0.01
25	359	152	5.7	240	18.1	41	45	37	73	90	54	32	37	0.01
26	360				26.7		44	36		88	47			
27	361	272	20.9	318	41.8	41	47	37	44	58	31	21	33	0.00
28	362	276	13.1	330	29.1	42	49	35	38	53	31	18	32	0.00
29	363	197	3.2	216	10.0	38	47	31	50	74	32	21	31	0.00
30	364	250	7.6	333	28.2	43	54	31	51	75	34	26	35	0.00
31	365	278	10.6	311	26.2	46	57	37	43	61	25	24	37	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Ave. V. mph	Wind Dir. Deg	Max. mph	Air Temperature Mean Deg. Fahrenheit	Max	Min	Humidity Mean Percent	Max	Min	Dew Point Deg. Fahrenheit	Wet Bulb Fahrenheit	Total Precip. inches
Total	6349												0.76
Ave.	212	6.8	294	18.9	44.4	54.0	35.8	55	75	33	27	37	
Max.	280	20.9		41.8	52	62	46	87	98	69	45	48	0.58
Min.	44	2.5		7.8	36	44	26	29	47	12	9	28	0.00

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1	1	200	4.2	236	33.7	45	55	33	50	73	32	27	37	0.00
2	2	251	16.2	336	52.2	52	59	44	31	47	20	22	39	0.00
3	3	246	3.9	166	26.4	49	64	38	41	67	23	26	39	0.00
4	4	207	4.0	296	11.7	45	59	34	54	75	29	28	37	0.00
5	5	283	9.2	318	32.6	46	59	30	42	81	15	21	36	0.00
6	6	285	6.2	265	22.3	47	63	36	30	45	13	15	35	0.00
7	7	265	4.3	281	15.1	45	59	33	36	54	18	18	34	0.00
8	8	285	9.0	316	27.6	44	56	30	36	61	18	17	33	0.00
9	9	265	9.8	309	34.1	44	55	29	36	64	19	18	33	0.00
10	10	288	11.2	310	33.0	42	55	29	30	51	14	12	31	0.00
11	11	291	5.6	288	26.4	41	55	25	33	55	17	13	30	0.00
12	12	272	3.6	264	16.0	41	55	29	37	57	20	16	32	0.00
13	13	290	5.3	272	13.7	39	52	27	47	67	29	20	31	0.00
14	14	293	6.4	303	17.6	39	53	26	50	77	30	21	32	0.00
15	15	295	4.3	274	16.2	42	56	29	42	63	23	19	32	0.00
16	16	283	10.1	212	32.8	45	60	28	41	64	18	21	35	0.00
17	17	288	6.1	296	19.9	43	55	33	37	69	15	16	33	0.00
18	18	208	3.4	305	11.5	42	58	29	28	44	13	10	31	0.00
19	19	230	3.7	313	12.3	50	67	34	27	42	12	15	36	0.00
20	20	149	4.2	304	13.7	50	61	41	30	43	19	20	37	0.00
21	21	226	4.4	264	16.5	48	59	37	57	80	30	33	41	0.00
22	22	269	5.0	286	14.1	47	63	35	57	80	31	31	39	0.00
23	23	314	4.7	309	20.2	52	69	39	43	67	21	29	41	0.00
24	24	302	3.6	259	11.8	50	67	37	43	67	23	28	40	0.00
25	25	290	4.8	313	21.8	53	69	39	34	56	15	24	40	0.00
26	26	307	5.9	291	19.5	51	65	39	40	55	24	27	40	0.00
27	27	323	11.3	304	25.4	53	66	45	33	50	21	24	40	0.00
28	28	262	5.2	215	18.7	49	62	38	37	50	21	22	37	0.00
29	29	337	23.3	345	46.1	52	60	43	26	43	15	18	38	0.00
30	30	304	11.4	339	40.5	53	65	39	31	47	20	22	39	0.00
31	31	340	5.3	118	18.7	53	70	40	39	59	19	27	41	0.00

MONTHLY STATISTICS

	Total Solar Rad. ly.	Wind Ave. V. mph	Wind Dir. Deg	Wind Max. mph	Air Temperature Mean Deg. Fahrenheit	Air Temperature Max	Air Temperature Min	Humidity Mean Percent	Humidity Max	Humidity Min	Dew Point Deg. Fahrenheit	Wet Bulb	Total Precip. inches
Total	8449												0.00
Ave.	273	7.0	302	23.3	46.9	60.4	34.5	39	60	21	21	36	
Max.	340	23.3		52.2	53	70	45	57	81	32	33	41	0.00
Min.	149	3.4		11.5	39	52	25	26	42	12	10	30	0.00

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° 1 ly = 1 cal/cm² = 4.1855 J/cm² = 3.6855 BTU/ft² = .01163 KW-hr/m²

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Day of Month	Day of Year	Total Solar Rad. ly.	Wind Ave. V. mph	Dir. Deg	Max. 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
1	32	352	4.1	265	12.5	55	74	39	35	55	16	25	41	0.00
2	33	346	13.5	285	73.8	51	70	38	34	54	16	22	38	0.00
3	34	366	28.1	339	68.5	36	40	31	23	34	14		25	0.00
4	35	363	20.4	333	38.8	36	44	27	21	28	12	0	25	0.00
5	36	325	11.8	331	36.4	47	62	30	28	42	17	15	34	0.00
6	37	369	18.1	328	46.3	58	71	45	30	51	14	25	43	0.00
7	38	377	12.2	333	32.0	57	72	44	20	39	7	14	39	0.00
8	39	377	6.1	278	34.1	53	69	35	21	32	11	13	37	0.00
9	40	214	16.8	342	40.2	48	53	43	23	28	19	12	34	0.00
10	41	383	22.4	323	44.4	50	60	41	18	25	8	7	34	0.00
11	42	388	13.3	348	30.8	50	62	39	20	32	9	8	35	0.00
12	43	396	10.6	321	27.7	52	66	41	21	30	12	13	36	0.00
13	44	396	4.1	254	12.8	49	67	32	25	42	12	13	35	0.00
14	45	391	5.5	267	15.7	48	66	32	26	42	13	13	35	0.00
15	46	379	4.5	267	13.8	51	67	36	26	41	13	16	37	0.00
16	47	299	5.4	277	22.6	53	70	38	30	43	18	21	39	0.00
17	48	392	17.5	325	31.9	57	67	49	20	34	7	13	40	0.00
18	49	371	5.1	133	21.9	48	61	38	20	29	12	8	33	0.00
19	50	413	4.9	272	14.0	50	68	33	21	35	11	10	34	0.00
20	51	422	5.0	221	19.8	50	66	35	19	32	9	8	35	0.00
21	52				11.0		66	35		30	11			
22	53													
23	54													
24	55													
25	56													
26	57													
27	58													
28	59													
29	60													

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Total	7317				49.9	63.9	37.2	24	37	13	13	35	0.00
Ave.	366	11.5	317	30.9	49.9	63.9	37.2	24	37	13	13	35	
Max.	422	28.1		73.8	58	74	49	35	55	19	25	43	0.00
Min.	214	4.1		11.0	36	40	27	18	25	7	0	25	0.00

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

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

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