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DEPARTMENT OF
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NEVADA DIVISION of PUBLIC
and BEHAVIORAL HEALTH



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March 6, 2025

MEMORANDUM

To: Beatty File
From: Jaime Walters, Radiation Specialist III *JW*
Subject: Beatty Inspection Summary March 3, 2025

An inspection of the Beatty Low-Level Radioactive Waste (LLRW) landfill (closed) was conducted on March 3, 2025, by Jaime Walters and Isaac Caad. The site is under construction to substantially increase the overall thickness of cover soils, increase mass buffer and improve perimeter drainage. 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. Escorted access to the top of the cap was obtained. The site's remaining perimeter fence is still present on the northern, southern, and part of the eastern sides of the site. Due to recent construction on the cap, the eastern boundary wires were cut in multiple locations and approximately 50% of the boundary wire was on the ground to allow ingress and egress of the machinery. Caution Radioactive Materials signs are posted at the boundary to clearly mark the location of the low-level radioactive waste area. The posts and signs from the west border have been taken down and stacked to the side allowing the original access road to be filled in order to connect the LLRW and western neighboring mound that it previously passed through. There has been approximately 10 feet of dirt added to the top of the cap. 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 driving 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 in the background location. The cap was in good condition. The previous erosion on the sides of the cap has been repaired.

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 2030. The addition of material to the cap has started. The markers remain stacked off to the side of the cap, near the southwest corner. The erosion trenches have also been filled in.

Site Observations:

Radiological Postings Adequate: Yes, however; due to construction activities, the signs along the western border were moved to allow dirt filling of the access road. These will be replaced along the western border, once the top of the LLRW landfill and the western neighboring landfill have been connected and levelled out.

Site Boundary and Access Road Maintained: Yes, the access road is being adequately maintained. The outer boundary is still fully intact. The inner boundary, around the landfill has had its east barrier cut, resulting in easy access for the construction workers adding dirt to the top of the cap. The western border had an access road which is currently being filled in with dirt. The barrier line, posts, and Caution Radioactive materials signs will be reposted once the work is completed.

Erosion, Fissures, Water Pooling, or Subsidence Concerns: The cap is free of Erosion and Fissures.

Following the completion of the increased soil depth added during Phase III, we will evaluate extending the inspection frequency from quarterly to semi-annual (March/September) and after large rain events.

Rain Since Last Inspection:

December – 0.00”, January – 0.02”, February – 0.25”

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: 7 – 9 µrem/hr

Value used for twice background: 18 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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Beatty 11SSE US Ecology Nevada

Monthly Summary for December, 2024

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
1	336	8	4.1	291	10.2	52 66 39	12 17 7	-0	35	0.00
2	337	3	4.1	291	11.2	53 73 40	13 19 6	2	35	0.00
3	338	2	3.2	260	9.4	54 72 40	14 20 7	4	36	0.00
4	339	16	4.6	103	17.7	58 73 45	18 27 12	13	39	0.00
5	340	5	3.1	140	8.8	58 76 45	21 33 11	17	40	0.00
6	341	0	7.5	3	24.6	57 70 44	19 30 10	14	39	0.00
7	342	0	3.6	139	11.3	53 70 41	21 32 11	13	37	0.00
8	343	0	4.8	328	17.6	51 67 38	22 30 14	13	36	0.00
9	344	109	15.6	330	34.7	50 57 42	17 27 7	6	34	0.00
10	345	16	5.0	244	23.2	41 57 30	18 30 8	0	29	0.00
11	346	27	4.1	282	10.5	39 57 26	16 25 9	-2	27	0.00
12	347	101	5.7	302	24.0	38 52 24	21 40 12	1	27	0.00
13	348	85	4.9	258	13.8	41 54 26	38 51 26	17	31	0.00
14	349	52	8.8	152	30.2	49 63 36	34 50 15	20	37	0.00
15	350	22	9.4	310	29.0	47 60 35	22 41 9	8	33	0.00
16	351	24	4.3	291	13.0	42 55 32	20 27 14	4	30	0.00
17	352	44	12.8	331	41.3	52 66 33	22 33 16	15	37	0.00
18	353	13	3.0	130	10.4	56 74 42	29 39 17	23	41	0.00
19	354	1	3.7	316	11.1	54 71 40	31 48 17	22	39	0.00
20	355	0	5.2	283	12.2	52 69 39	27 43 15	18	37	0.00
21	356	1	4.9	292	14.5	51 66 36	25 38 15	16	36	0.00
22	357	1	3.8	306	12.9	53 63 43	23 30 16	15	37	0.00
23	358	1	3.4	317	12.9	52 68 40	32 47 22	22	39	0.00
24	359	1	8.6	289	41.4	51 64 37	40 57 24	26	39	0.00
25	360	33	15.2	325	41.6	48 57 41	34 44 22	21	37	0.00
26	361	3	4.0	291	14.2	46 58 37	35 49 22	19	35	0.00
27	362	0	4.8	294	13.0	46 62 32	39 60 26	22	35	0.00
28	363	13	4.2	300	11.0	47 62 35	49 68 29	28	38	0.00
29	364	57	7.0	278	17.6	46 61 34	51 72 31	28	37	0.00
30	365	20	11.7	310	32.6	49 60 36	33 53 20	21	37	0.00
31	366	61	8.1	308	33.6	44 58 34	32 47 18	15	32	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	718								0.00
Ave.	23	6.2	302	19.7	49.3 63.9 36.8	27 40 16	14	36	
Max.	109	15.6		41.6	58 76 45	51 72 31	28	41	0.00
Min.	0	3.0		8.8	38 52 24	12 17 6	-2	27	0.00

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

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

Beatty 11SSE US Ecology Nevada

Monthly Summary for January, 2025

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	
1	1	18	4.8	280	12.3	43	58	30	28	41	17	12	32	0.00
2	2	5	4.2	300	10.2	48	67	33	26	39	14	13	34	0.00
3	3	4	6.0	257	18.4	49	60	36	24	36	16	13	35	0.00
4	4	105	13.6	320	29.9	49	58	40	23	35	15	12	35	0.00
5	5	0	6.6	330	25.1	50	65	39	31	50	20	20	37	0.00
6	6	3	10.5	327	40.0	50	65	32	41	66	24	26	39	0.00
7	7	81	28.0	358	53.6	48	53	43	38	78	21	21	37	0.02
8	8	15	23.1	332	43.4	48	56	40	21	32	11	9	34	0.00
9	9	29	18.4	344	38.6	51	58	45	21	29	11	12	36	0.00
10	10	1	5.9	129	20.9	45	60	33	26	41	12	11	33	0.00
11	11	213	18.1	331	52.0	48	56	33	24	38	14	12	34	0.00
12	12	20	15.9	348	33.8	42	50	33	27	36	19	10	31	0.00
13	13	0	15.5	332	31.5	42	49	33	25	33	18	8	30	0.00
14	14	35	4.8	68	20.6	45	60	32	27	40	15	12	32	0.00
15	15	5	4.6	338	13.7	48	64	32	27	43	15	14	34	0.00
16	16	37	4.3	280	11.8	43	61	29	28	48	13	11	31	0.00
17	17	43	5.6	293	21.5	44	62	27	25	40	15	9	31	0.00
18	18	78	8.1	333	32.3	48	62	33	21	39	8	9	34	0.00
19	19	72	6.1	281	27.4	44	60	27	20	32	11	5	30	0.00
20	20	306	13.5	337	35.3	43	52	34	17	26	8	0	30	0.00
21	21	110	3.6	239	16.3	38	56	24	15	32	8	-5	26	0.00
22	22	72	13.5	337	30.3	50	65	29	9	19	4	-7	33	0.00
23	23	33	4.5	162	15.2	46	61	31	9	15	5	-10	30	0.00
24	24	65	4.8	276	10.8	41	58	28	11	16	6	-9	27	0.00
25	25	71	6.3	163	20.9	44	54	32	12	38	7	-8	29	0.00
26	26	134	7.4	282	24.0	42	47	33	52	72	35	25	35	0.00
27	27	174	18.0	323	33.4	45	54	37	32	47	21	17	34	0.00
28	28	71	17.6	323	40.0	46	55	38	27	39	15	13	33	0.00
29	29	25	12.4	325	33.7	49	61	36	21	33	10	10	34	0.00
30	30	12	7.7	220	24.9	49	65	34	22	32	10	11	35	0.00
31	31	16	4.6	258	13.5	43	55	29	30	40	19	13	32	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	1855											0.02	
Ave.	60	10.3	325	26.9	45.9	58.3	33.5	24	39	14	9	33	
Max.	306	28.0		53.6	51	67	45	52	78	35	26	39	0.02
Min.	0	3.6		10.2	38	47	24	9	15	4	-10	26	0.00

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

Beatty 11SSE US Ecology Nevada

Monthly Summary for February, 2025

Day	Day	Total	Wind			Air Temperature			Humidity			Dew	Wet	Total	
of	of	Solar Rad.	Ave.	V. Dir.	Max.	Mean	Max	Min	Mean	Max	Min	Point	Bulb	Precip.	
Month	Year	ly.	mph	Deg	mph	Deg.	Fahrenheit			Percent			Deg.	Fahrenheit	inches
1	32	25	6.1	299	17.2	46	58	35	38	50	25	22	36	0.00	
2	33	60	6.1	299	19.9	54	70	38	48	64	33	34	44	0.00	
3	34	0	9.2	157	25.4	60	72	45	34	58	18	30	45	0.00	
4	35	0	12.7	152	31.8	63	73	55	26	51	7	25	45	0.00	
5	36	0	9.1	133	21.4	58	71	50	51	67	27	39	48	0.00	
6	37	0	8.8	182	24.2	57	70	43	52	83	23	38	47	0.00	
7	38	0	10.2	149	28.6	59	71	50	38	70	11	29	45	0.00	
8	39	11	12.8	317	30.3	50	60	38	21	38	12	10	35	0.00	
9	40	8	5.2	201	26.9	46	60	34	17	25	11	3	31	0.00	
10	41	20	4.7	283	13.8	45	61	32	19	28	11	5	31	0.00	
11	42	56	12.0	335	33.0	45	54	32	19	26	12	5	31	0.00	
12	43	76	3.7	154	13.4	42	57	29	23	35	13	6	29	0.00	
13	44	0	16.2	125	36.2	45	50	37	76	93	21	37	41	0.22	
14	45	13	11.3	103	45.1	50	62	45	59	87	31	35	43	0.03	
15	46	93	12.8	330	31.2	50	61	41	35	53	13	21	38	0.00	
16	47	1	4.1	282	13.4	49	66	36	35	59	14	20	37	0.00	
17	48	0	5.7	271	22.4	51	67	36	35	58	18	22	38	0.00	
18	49	13	14.1	317	35.1	53	64	45	26	35	15	19	38	0.00	
19	50	6	6.0	253	31.9	57	70	45	25	38	15	20	41	0.00	
20	51	44	21.7	333	42.3	55	63	49	28	40	19	22	40	0.00	
21	52	18	9.8	295	30.0	52	66	40	19	35	7	9	36	0.00	
22	53	5	4.2	263	18.8	52	71	34	14	27	5	1	34	0.00	
23	54	8	4.3	247	13.7	56	77	35	15	30	6	6	37	0.00	
24	55				14.5		79	45		37	9				
25	56	0	10.8	321	29.9	63	79	46	15	33	4	8	41	0.00	
26	57	1	10.4	272	30.5	63	79	51	9	15	5	4	40	0.00	
27	58	2	4.6	292	14.1	56	73	36	11	24	5	0	36	0.00	
28	59	13	4.4	287	16.2	58	78	41	12	19	6	5	38	0.00	

MONTHLY STATISTICS

	Total	Wind			Air Temperature			Humidity			Dew	Wet	Total	
	Solar Rad.	Ave.	V. Dir.	Max.	Mean	Max	Min	Mean	Max	Min	Point	Bulb	Precip.	
	ly.	mph	Deg	mph	Deg.	Fahrenheit			Percent			Deg.	Fahrenheit	inches
Total	472												0.25	
Ave.	17	8.9	287	25.4	53.1	67.2	40.8	30	46	14	18	39		
Max.	93	21.7		45.1	63	79	55	76	93	33	39	48	0.22	
Min.	0	3.7		13.4	42	50	29	9	15	4	0	29	0.00	

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