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March 1, 2019

MEMORANDUM

To: Beatty File

From: John Follette, Radiation Control Specialist

Subject: Beatty Inspection Summary February 26, 2019

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An inspection of the Beatty Low-Level Radioactive Waste landfill (closed) was conducted on February 26, 2018 by John Follette. 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 read on the access road.

**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 - 0.14", December - 0.09", January - 0.02", and February - 1.38" as of February 24, 2019.

Erosion, Fissures, Water Pooling, or Subsidence Concerns:

Patches of white crust have formed on the surface around trench 14 along the east fence of the site. The area affected is about 60 feet long and the width varies between 2 to 10 feet wide. The white crust is the same type that was previously identified during inspections on February 17, 2016 and April 18, 2016. The crust was previously assumed to be hydroxides that are seeping up from the surface. USEN previously cleaned up these areas, however, the hydroxides continue to seep to the surface.

**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: 16-21 urem/hr

Value used for twice background: 42 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.)

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