



FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

Memorandum

TO: Jennifer Farrell, Program Administrator
Waste Cleanup Program

Alex Webster, PG II
Northwest District

THROUGH: Brian Dougherty, Program Manager
District & Business Support Program, DWM

A blue ink signature of Brian Dougherty.

Digitally signed by Brian
Dougherty
Date: 2021.09.16
09:47:45 -04'00'

FROM: Jeff Wagner, PG II
District & Business Support Program, DWM

**Jeffrey
Wagner**

Digitally signed by Jeffrey
Wagner
Date: 2021.09.16
09:09:16 -04'00'

SUBJECT: FSU-LLRW-1 Disposal Site
Engineering Campus Area, south of Levy Ave, Tallahassee, Leon County
Source Removal Report, September 1, 2021
Site ID: ERIC_17230

DATE: September 16, 2021

The District and Business Support Program (DBSP) has reviewed the September 1, 2021 Source Removal Report. The following review comments are provided to assist the Waste Cleanup Program and Northwest District staff with their review. DBSP's review comments should not be inferred to be an approval of the subject document.

The following information pertains to the DBSP comments:

- Low-Level Radiation Waste (LLRW) material was buried at the site more than 50 years ago. The waste was managed under Florida State University's (FSU) Radioactive Materials License.
- The material was contained in four cells beneath a concrete slab approximated 25 x 25 ft. The cells were approximately 8 ft deep.
- The water table is estimated to be about 50 ft below land surface (bls) and the water table was not intersected during excavation of the material nor was dewatering necessary.
- FSU and their consultant, Golder Associates, Inc., provided oversight for the LLRW removal activity. Routine radiation monitoring was conducted throughout the waste removal activity.
- A waste characterization sample was collected for laboratory analyses. The results were accepted by the waste disposal facility.

Memo to Jennifer Farrell

September 16, 2021

Page 2

- It is noted that on July 21, 2021 a gamma survey was conducted on a metal box/lead cylinder retrieved from one of the cells. The cylinder had a 125-milliliter vial inside and yielded a gamma reading of about 50,000 milli-Roentgens per hour (mR/hr). This was the highest radiation reading recorded during the waste removal operations. Gamma levels measured from the other soil waste bags were less than 110 mR/hr.
- FSU's Radiation Safety Officer removed the lead box and vial from the loaded waste bag (Bag #2) and moved it to FSU's radiation storage area where it will be disposed of through FSU's radiation disposal protocols.
- The LLRW waste was loaded for transport to the waste disposal facility, Energy Solutions, in Clive, Utah.
- On July 22, 2021, the Florida Department of Health (FDOH), Bureau of Radiation Control conducted a final LLRW shipment inspection prior to the waste leaving the site.

In Summary –

- The excavation, soil handling, and transport appears to have been conducted in a manner consistent with Rule 62-780.525, Interim Source Removal.
- This Source Removal Report appears to be complete and no further action for this event is needed.

If you have any questions, please contact me at Jeffry.wagner@FloridaDEP.gov or 850-245-8967.