

APPENDIX D

## Evaporation Tank Sample Results

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May 29, 2015

To: David Henry, Contracting Officer Representative, U.S. Army Corps of Engineers (USACE)  
From: JohnDavid Nance, Sundance Consulting, Inc. (Sundance)  
Subject: Evaporation Tank Rehabilitation – North Tank Sediment Sampling  
Reference: Contract Number W9126G-12-D-0027, Task Order # 0002, Task Item 15

Dear Mr. Henry:

Attached is the analytical data from the sediment collected out of the north cell of the evaporation tank. Samples collected were analyzed for known constituents of concern in the Fort Wingate Depot Activity (FWDA) groundwater, full toxicity characteristic leaching procedure (TCLP), and United States Environmental Protection Agency (EPA) methods for hazardous wastes.

Sundance performed sediment sampling at the north evaporation tank on May 29, 2014 and on March 31, 2015. The May 2014 sample was analyzed for total petroleum hydrocarbons, Resource Conservation and Recovery Act (RCRA) 8 metals, nitrate and nitrite, explosives, perchlorate, and a full TCLP. A summary of the detections are below.

Detected Constituents	Analytical Data Results	NMED Residential Soil Screening Level	Units	Exceedance (Yes/No)
Diesel Range Organics	28	1000	mg/kg	No
Motor Oil Range Organics	81	3000	mg/kg	No
Nitrate	36	12,500	mg/kg	No
Nitrite	66	7,820	mg/kg	No
Barium	32	1,560	mg/kg	No
Lead	2.2	400	mg/kg	No
Chromium	3.7	96.6	mg/kg	No
Silver	1.9	391	mg/kg	No
Perchlorate	2.34	54.8	mg/kg	No
Explosives	ND	*17.1	mg/kg	No

NMED = New Mexico Environment Department  
mg/kg = milligrams per kilogram

\* = Value equals the Soil Screening Level (SSL) of dinitrotoluene, which is the most stringent SSL of HMX, RDX, trinitrotoluene, and dinitrotoluene. These compounds have been detected in groundwater samples collected from the northern area groundwater monitoring wells.

The March 2015 sample was analyzed for corrosivity, ignitability, reactive sulfide, and reactive cyanide. A summary of the results are below:

- Non-corrosive
- Non-detect for reactive sulfide
- Non-detect for reactive cyanide
- Did not ignite at 170 degrees Fahrenheit

Data results conclude that the sediment within the northern evaporation tank is non-hazardous and contains no constituent concentrations above the NMED soil screening levels, as published in December 2014.

If you have any questions regarding this deliverable, please contact me at (505) 835-7660 or by e-mail at: [jnance@sundance-inc.net](mailto:jnance@sundance-inc.net).

Very best regards,



JohnDavid Nance  
Project Manager, Sundance Consulting, Inc.

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