

# TECHNICAL MEMORANDUM

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**To:** Nevada Environmental Response Trust

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**Cc:** Nevada Division of Environmental Protection  
United States Environmental Protection Agency

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**From:** Dana Grady

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**Date:** June 10, 2020

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**Subject:** Las Vegas Wash Bioremediation Pilot Study Monthly Progress Report

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this memorandum which summarizes Tetra Tech's progress during April 2020 toward successfully implementing the Las Vegas Wash Bioremediation Pilot Study.

## Task Progress Update: April 2020

### Task M19 – Las Vegas Wash Pilot Study

- Task Leader – Dana Grady
- Current Status
  - Access negotiations with the City of Henderson to use a portion of their landfill as a staging area for pilot study activities are on-going.
  - Drilling began on February 10, 2020 and is on-going. As of April 30, 2020, the following has been completed:
    - A total of 124 injection and monitoring wells have been installed as part of the Phase 2 drilling activities. This includes 11,498 linear feet of drilling and 13,290 linear feet of wells installed to-date.
    - Two sonic drill rigs were used during February and March, and two additional sonic drill rigs were brought on-site on April 7, 2020. As a result, during the month of April, four sonic drill rigs and one well development rig have been employed within the study area.
    - A total of 77 wells have been developed.
  - A final layout map and construction details of all injection and monitoring wells will be provided in future monthly progress reports upon completion of the drilling effort.
- Schedule and Progress Updates
  - Tetra Tech continues to monitor the COVID-19 situation. At this time, this task remains on schedule.
  - Well installation activities are anticipated to be completed in June 2020.

- Baseline groundwater sampling and aquifer testing will be performed following completion of well installation and development activities.
- Health and Safety
  - There were no safety incidents related to Task M19 during April 2020.
  - Safety measures continue to be implemented to minimize potential exposure to COVID-19, including the use of face coverings, gloves, and hand sanitizer, as well as protocols for monitoring temperatures, minimizing the number of people on site at one time, and evaluating tasks to increase physical distance between personnel.

## CERTIFICATION

### Las Vegas Wash Bioremediation Pilot Study Monthly Progress Report

#### Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

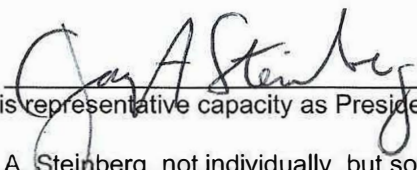
#### Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the systems(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

**Not Individually, but Solely  
as President of the Trustee**

**Signature:**  \_\_\_\_\_, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

**Name:** Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

**Title:** Solely as President and not individually

**Company:** Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

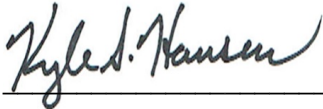
**Date:** 6/10/2020

## CERTIFICATION

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I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Las Vegas Wash Bioremediation Pilot Study Monthly Progress Report, Nevada Environmental Response Trust Site, Henderson, Nevada.



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**Kyle Hansen, CEM**  
Field Operations Manager/Geologist  
Tetra Tech, Inc.

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June 10, 2020

Date

Nevada CEM Certificate Number: 2167  
Nevada CEM Expiration Date: September 18, 2020