

TECHNICAL MEMORANDUM

To: Nevada Environmental Response Trust

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

From: Dan Pastor and Dana Grady

Date: April 20, 2018

Subject: Las Vegas Wash Bioremediation Pilot Study Progress Update

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 March 2018 toward successfully implementing the Las Vegas Wash Bioremediation Pilot Study.

Task Progress Update: March 2018

Task M19 – Las Vegas Wash Bioremediation Pilot Study

- Task Leader – Dana Grady/Dan Pastor
- Current Status
 - An access agreement has been received from the City of Henderson (COH) for all pre-design field work to be performed near Transect 1A of the Las Vegas Wash Pilot Study. Access negotiations are on-going with Clark County, which owns the property associated with Transect 1B.
 - Preparation for upcoming drilling activities on COH property, such as well permitting, subcontracting, and utility clearances, were completed from March 12 – 23, 2018.
 - A biological survey was completed from March 22 – 23, 2018 to document the presence/absence of the desert tortoise and nesting migratory birds on the COH land parcel associated with the Transect 1A vicinity. The results of the survey concluded that the COH land parcel was not considered a suitable or preferred habitat for the desert tortoise. No desert tortoise individuals or evidence of tortoise habitation were observed during the survey. Additionally, no migratory bird nests were observed. Once access is granted by Clark County, a biological survey will be performed in the vicinity of Transect 1B prior to the commencement of any field activities.
 - Drilling activities on COH property began on March 26, 2018 and are currently on-going. This drilling effort consists of ten locations drilled to a depth of 120 feet below ground surface and the installation of 21 monitoring wells (some of the ten locations will consist of clustered wells).

- **Schedule and Progress Updates**
 - This task remains on schedule.
 - Phase 1 pre-design field activities on Clark County land are pending access from Clark County.
 - Groundwater monitoring and aquifer testing will be completed following the completion of drilling activities.
- **Health and Safety**
 - There were no safety incidents related to Task M19 during March 2018.

CERTIFICATION

Las Vegas Wash Bioremediation Pilot Study Progress Update

**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

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

not individually, but solely as Pres. of

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: 4/18/13

CERTIFICATION

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: Prepared Las Vegas Wash Bioremediation Pilot Study, Nevada Environmental Response Trust Site, Henderson, Nevada



April 20, 2018

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

Date

Nevada CEM Certificate Number: 2167
Nevada CEM Expiration Date: September 18, 2018