

TECHNICAL MEMORANDUM

To: Nevada Environmental Response Trust

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

From: Arul Ayyaswami and Dan Pastor

Date: April 20, 2018

Subject: In-Situ Chromium Treatability Study Monthly Progress Update

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this memorandum that summarizes Tetra Tech's progress made through March 2018 toward successfully implementing the In-Situ Chromium Treatability Study as outlined in the In-Situ Chromium Treatability Study Work Plan (Work Plan).

Task Progress Update: March 2018

Task M12 – In-Situ Chromium Treatability Study

- Task Leader – Arul Ayyaswami
- Current Status
 - An additional performance groundwater monitoring event was performed from March 5 – 7, 2018 as part of the biological reduction study to further evaluate groundwater velocity, carbon substrate longevity, the degree to which reduction of hexavalent chromium and other chemicals of potential concern could occur within the UMCf, and confirm geochemical conditions return to baseline conditions. Groundwater monitoring was performed at 10 of the 14 downgradient monitoring wells. Groundwater monitoring wells CTMW-03S, CTMW-03D, CTMW-05S, and CTMW-05D were excluded as the previous groundwater monitoring results indicated that these wells were located cross-gradient of the injection wells and showed limited effects from the carbon substrate injections. The results of this performance groundwater monitoring event are currently being reviewed.
 - The In-Situ Chromium Treatability Study Results Report was submitted to NDEP on March 22, 2018.
- Schedule and Progress Updates
 - One additional performance groundwater monitoring event will be performed in June 2018 as part of the biological reduction study. The results of the additional performance groundwater monitoring events will be presented in a report addendum in 3rd Quarter 2018.

- Health and Safety
 - There were no health and safety incidents related to Task M12 during March 2018.

CERTIFICATION

In-Situ Chromium Treatability Study Monthly 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 as Pres. Sent*, 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: 4/19/18

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 In-Situ Chromium Treatability Study Progress Update, 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