

November 13, 2018

TECHNICAL MEMORANDUM

- To: Steve Clough Nevada Environmental Response Trust
- From: John Pekala, CEM#2347, Expires 9/20/2020, Ramboll Jessica Donovan, Ramboll
- Re: RI Phase 3 Modification No. 5 Seep Well Field Area Drilling Nevada Environmental Response Trust Site Henderson, Nevada Ramboll Project No. 1690006943-036

This Technical Memorandum presents Ramboll's recommended Modification No. 5 to the scope of work for Phase 3 of the Remedial Investigation (RI) currently in progress at the Nevada Environmental Response Trust Site (the "Site") located in Henderson, Nevada. This recommended modification proposes three additional deep soil borings upgradient of the Seep Well Field (SWF) to better delineate the lateral and vertical extent of perchlorate and other NERT COPCs in deeper UMCf soils (i.e., greater than 50 feet bgs). Details regarding the proposed RI Phase 3 Modification No. 5 investigation are provided below. The data obtained during these activities will be used with similar data collected as part of the Phase 2 RI, the Downgradient Study Area investigation, the Seep Well Field Area Bioremediation Treatability Study, and the Las Vegas Wash Bioremediation Pilot Study to define the horizontal and vertical extent of perchlorate and other NERT COPCs along the Las Vegas Wash.

Investigation Locations PCDB-15, PCDB-16, and PCDB-17. Three deep soil borings will be advanced just south and hydraulically upgradient of the SWF. Figure 1 provides a plan view of the proposed soil boring locations. Subsurface conditions near the SWF are illustrated schematically on Subsurface Cross-Section A-A' as shown on Figure 2. The proposed soil borings will be advanced to a planned total depth of 150 feet bgs. Soil samples will be collected at intervals of 10 feet from 50 feet bgs to the total depth of each boring and analyzed for perchlorate, chlorate, total chromium, nitrate/nitrite, VOCs, and moisture content. A select number of soil samples will also be tested for physical properties.

Please contact us should you have any questions about the recommended additional investigation locations.

Attachments

- Figure 1Proposed Deep Boring Locations (Seep Well Field Area)
- Figure 2 Schematic Subsurface Cross-Section A-A' Showing Seep Well Field Area





RI Phase 3 Modification No. 5 Seep Well Field Area Drilling

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

Nevada Environmental Response Trust (Trust) 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 the Trust. Based on my own involvement and/or my inquiry of the person or persons who manage the system(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, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Signature: Ju A Stemberg, but 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: ______ 11 /13/19

RI Phase 3 Modification No. 5 Seep Well Field Area Drilling

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

Responsible Certified Environmental Manager (CEM) for this project

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 provided 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.

MIP

John M. Pekala, PG Principal November 13, 2018

Date

Certified Environmental Manager Ramboll US Corporation CEM Certificate Number: 2347 CEM Expiration Date: September 20, 2020