

# TECHNICAL MEMORANDUM

То:	Nevada Environmental Response Trust						
Cc:	Nevada Division of Environmental Protection United States Environmental Protection Agency						
From:	Dana Grady, Chris Hayes						
Date:	May 18, 2022						
Subject:	Unit 4 Source Area In-Situ Bioremediation Treatability Study Monthly Progress Report						

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this memorandum to summarize Tetra Tech's progress during April 2022 toward successfully implementing the Unit 4 Source Area In-Situ Bioremediation (ISB) Treatability Study.

## Task Progress Update: April 2022

#### Task M21 – Unit 4 Source Area ISB Treatability Study

- Current Status
  - Phase 2 of the Unit 4 Source Area ISB Treatability Study is ongoing. The following activities were completed in April 2022 as part of the design and implementation:
    - An as-built well survey of newly installed injection, extraction, and monitoring wells was completed on April 5, 2022. The well survey data were used to generate a final layout map showing the locations of Area 1 and Area 2 injection/extraction and monitoring wells, which are presented on Figure 1. Construction details for all new wells are being compiled and will be presented in future monthly progress reports.
    - Aquifer testing activities continued in April 2022, with step drawdown field testing of all newly installed injection/extraction wells completed on April 8, 2022. Evaluation of aquifer testing results is on-going. A summary of the aquifer testing results will be provided in future monthly progress reports.
    - The grading permit application for the upcoming road paving activities associated with water hauling from the Unit 4 Building to Process Tank T-201 was submitted to Clark County for review on April 11, 2022.
    - Baseline groundwater sampling of all monitoring and injection/extraction wells was completed on April 22, 2022. Results will be provided in future monthly progress reports when all data are received from the laboratory.
- Schedule and Progress Updates

- Assembly of the injection/extraction system is scheduled to begin in May 2022 at an off-site facility. Delivery and on-site installation of the injection/extraction system is tentatively scheduled to begin in late May 2022.
- Road paving and automatic gate installation is scheduled to begin in May 2022, pending approval of the grading permit application.
- Health and Safety
  - There were no health and safety incidents related to Task M21 during April 2022.

### CERTIFICATION

#### Unit 4 Source Area In-Situ Bioremediation Treatability 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

Signatur	re:	Jan A	Sten	by	Not Individually, but Solely as President of the Trustee	, not individually,
but solely	in his rep	presentati	ve capacity	as Pjesi	dent of the Nevada Environme	ental Response Trust Trustee
Name:	Jav A. S	) teinberg, i	not individua	ally but s	solely in his representative car	pacity as President of the Nevada

**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

5/18/02 Date:

# 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 Unit 4 Source Area In-Situ Bioremediation Treatability Study Monthly Progress Report.

May 18, 2022

Date

**David S. Wilson, CEM** Principal Engineer Tetra Tech, Inc.

Nevada CEM Certificate Number: 2385 Nevada CEM Expiration Date: September 19, 2022

# **Figures**

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