



**DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 8 START CONTRACT**

| | | | |
|------------------------------------|---|---|---|
| Site Name | Telluride Valley Floor Removal Action | TO/TOLIN No. | 71-2107-06 |
| Document Tracking No. | NA | Technical Reviewer (signature and date) |  8/16/2021 |
| Data Reviewer (signature and date) |  8/16/2021 | Laboratory | Eurofins TestAmerica/Phoenix, AZ |
| Laboratory Report No. | 550-168173-1 | | |
| Analyses | Arsenic and lead by NIOSH 7303 | | |
| Samples and Matrix | Fifteen air samples, including one field duplicate sample and two field blanks | | |
| Field Duplicate Pairs | VF001072921/VF001072921D | | |
| Field Blanks | VF001073021FB and VF001072921FB | | |

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with *START V Programmatic Quality Assurance Project Plan* (October 2020) and the EPA *National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review* (January 2017).

OVERALL EVALUATION

No rejection or qualification of data was required for this work order. The data can be used as reported by the laboratory.

Data completeness:

| Within Criteria | Exceedance/Notes |
|-----------------|---|
| Y | Lab report revised 8/13/2021 to account for an incorrect sample volume on the initial COC. Revised COC was submitted to the lab and was included in the revised report, and the revision uses the corrected volume to calculate sample results. |

Sample preservation, receipt, and holding times:

| Within Criteria | Exceedance/Notes |
|-----------------|--|
| Y | COC had an incorrect sample volume for one of the samples. |

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Method blanks:

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y | |

Field blanks:

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y | |

System monitoring compounds (surrogates and labeled compounds):

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA | |

MS/MSD:

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA | |

Laboratory duplicates:

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA | |

Field duplicates:

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y | |

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LCSs/LCSDs:

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y | |

Sample dilutions:

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA | |

Re-extraction and reanalysis:

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA | |

MDLs/RLs:

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| Y | |

Tentatively identified compounds:

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA | |

Other [specify]:

| Within Criteria | Exceedance/Notes |
|--------------------|------------------|
| NA | |

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Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

| | |
|----|---|
| J | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample. |
| J+ | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high. |
| J- | The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low. |
| NJ | The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample. |
| R | The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample. |
| U | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit). |
| UJ | The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria. |

TELLURIDE VALLEY FLOOR REMOVAL ACTION AIR ANALYTICAL RESULTS SUMMARY

EUROFINS TESTAMERICA REPORT NO. 550-168173-1

| Samp_No | Analysis | Analyte | Lab Result | Lab Qual | RL | Units | Val Result | Val Qual |
|---------------|------------|---------|------------|----------|--------|-----------|------------|----------|
| VF001072721 | NIOSH 7303 | Arsenic | 0.581 U | | 0.581 | ug/m3 | 0.581 U | |
| VF001072721 | NIOSH 7303 | Lead | 0.291 U | | 0.291 | ug/m3 | 0.291 U | |
| VF001072721 | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF001072721 | NIOSH 7303 | Lead | 0.25 U | | 0.25 | ug/Sample | 0.25 U | |
| VF001072821 | NIOSH 7303 | Arsenic | 0.0781 U | | 0.0781 | ug/m3 | 0.0781 U | |
| VF001072821 | NIOSH 7303 | Lead | 0.0391 U | | 0.0391 | ug/m3 | 0.0391 U | |
| VF001072821 | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF001072821 | NIOSH 7303 | Lead | 0.25 U | | 0.25 | ug/Sample | 0.25 U | |
| VF001072921 | NIOSH 7303 | Arsenic | 0.0828 U | | 0.0828 | ug/m3 | 0.0828 U | |
| VF001072921 | NIOSH 7303 | Lead | 0.0414 U | | 0.0414 | ug/m3 | 0.0414 U | |
| VF001072921 | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF001072921 | NIOSH 7303 | Lead | 0.25 U | | 0.25 | ug/Sample | 0.25 U | |
| VF001072921D | NIOSH 7303 | Arsenic | 0.0828 U | | 0.0828 | ug/m3 | 0.0828 U | |
| VF001072921D | NIOSH 7303 | Lead | 0.0414 U | | 0.0414 | ug/m3 | 0.0414 U | |
| VF001072921D | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF001072921D | NIOSH 7303 | Lead | 0.25 U | | 0.25 | ug/Sample | 0.25 U | |
| VF001072921FB | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF001072921FB | NIOSH 7303 | Lead | 0.25 U | | 0.25 | ug/Sample | 0.25 U | |
| VF001073021 | NIOSH 7303 | Arsenic | 0.051 U | | 0.051 | ug/m3 | 0.051 U | |
| VF001073021 | NIOSH 7303 | Lead | 0.0255 U | | 0.0255 | ug/m3 | 0.0255 U | |
| VF001073021 | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF001073021 | NIOSH 7303 | Lead | 0.25 U | | 0.25 | ug/Sample | 0.25 U | |
| VF001073021FB | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF001073021FB | NIOSH 7303 | Lead | 0.25 U | | 0.25 | ug/Sample | 0.25 U | |
| VF002072721 | NIOSH 7303 | Arsenic | 0.138 U | | 0.138 | ug/m3 | 0.138 U | |
| VF002072721 | NIOSH 7303 | Lead | 0.0691 U | | 0.0691 | ug/m3 | 0.0691 U | |
| VF002072721 | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF002072721 | NIOSH 7303 | Lead | 0.25 U | | 0.25 | ug/Sample | 0.25 U | |
| VF002072821 | NIOSH 7303 | Arsenic | 0.0769 U | | 0.0769 | ug/m3 | 0.0769 U | |
| VF002072821 | NIOSH 7303 | Lead | 0.0409 | | 0.0385 | ug/m3 | 0.0409 | |
| VF002072821 | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF002072821 | NIOSH 7303 | Lead | 0.266 | | 0.25 | ug/Sample | 0.266 | |
| VF002072921 | NIOSH 7303 | Arsenic | 0.0687 U | | 0.0687 | ug/m3 | 0.0687 U | |
| VF002072921 | NIOSH 7303 | Lead | 0.0343 U | | 0.0343 | ug/m3 | 0.0343 U | |
| VF002072921 | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF002072921 | NIOSH 7303 | Lead | 0.25 U | | 0.25 | ug/Sample | 0.25 U | |
| VF002073021 | NIOSH 7303 | Arsenic | 0.0459 U | | 0.0459 | ug/m3 | 0.0459 U | |
| VF002073021 | NIOSH 7303 | Lead | 0.023 U | | 0.023 | ug/m3 | 0.023 U | |
| VF002073021 | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF002073021 | NIOSH 7303 | Lead | 0.25 U | | 0.25 | ug/Sample | 0.25 U | |
| VF003072721 | NIOSH 7303 | Arsenic | 0.15 U | | 0.15 | ug/m3 | 0.15 U | |
| VF003072721 | NIOSH 7303 | Lead | 0.0749 U | | 0.0749 | ug/m3 | 0.0749 U | |
| VF003072721 | NIOSH 7303 | Arsenic | 0.5 U | | 0.5 | ug/Sample | 0.5 U | |
| VF003072721 | NIOSH 7303 | Lead | 0.25 U | | 0.25 | ug/Sample | 0.25 U | |
| VF003072821 | NIOSH 7303 | Arsenic | 0.0676 U | | 0.0676 | ug/m3 | 0.0676 U | |
| VF003072821 | NIOSH 7303 | Lead | 0.0338 U | | 0.0338 | ug/m3 | 0.0338 U | |

TELLURIDE VALLEY FLOOR REMOVAL ACTION AIR ANALYTICAL RESULTS SUMMARY

EUROFINS TESTAMERICA REPORT NO. 550-168173-1

| Samp_No | Analysis | Analyte | Lab Result | Lab Qual | RL | Units | Val Result | Val Qual |
|-------------|------------|---------|------------|----------|----|----------------|------------|----------|
| VF003072821 | NIOSH 7303 | Arsenic | 0.5 | U | | 0.5 ug/Sample | 0.5 | U |
| VF003072821 | NIOSH 7303 | Lead | 0.25 | U | | 0.25 ug/Sample | 0.25 | U |
| VF003072921 | NIOSH 7303 | Arsenic | 0.0549 | U | | 0.0549 ug/m3 | 0.0549 | U |
| VF003072921 | NIOSH 7303 | Lead | 0.0275 | U | | 0.0275 ug/m3 | 0.0275 | U |
| VF003072921 | NIOSH 7303 | Arsenic | 0.5 | U | | 0.5 ug/Sample | 0.5 | U |
| VF003072921 | NIOSH 7303 | Lead | 0.25 | U | | 0.25 ug/Sample | 0.25 | U |
| VF003073021 | NIOSH 7303 | Arsenic | 0.0424 | U | | 0.0424 ug/m3 | 0.0424 | U |
| VF003073021 | NIOSH 7303 | Lead | 0.0212 | U | | 0.0212 ug/m3 | 0.0212 | U |
| VF003073021 | NIOSH 7303 | Arsenic | 0.5 | U | | 0.5 ug/Sample | 0.5 | U |
| VF003073021 | NIOSH 7303 | Lead | 0.25 | U | | 0.25 ug/Sample | 0.25 | U |