



Data Verification Report

January 03, 2025

Revision: January 16, 2025

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Subject	Analytical Results and Data Verification Soil Resampling Oxy DJ Basin – Bryant 16, 23, 36-30 Wellheads/Flowlines Northeastern Colorado December 2024		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a data verification of analytical results for soil samples collected in support of the Soil Resampling at the Bryant 16, 23, 36-30 Wellheads/Flowlines site during December 2024. Samples were submitted to Origins Laboratory located in Denver, Colorado. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody form, finished report form, method blank data, and recovery data from laboratory control samples (LCS).

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 3 and applicable guidance from the document entitled:

1. "National Functional Guidelines for Inorganic Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 542-R-20-006, November 2020.

This document will subsequently be referred to as the "Guidelines" in this report.

2. Sample Holding Time and Preservation

The sample holding time criterion for the analysis is summarized in Table 3. The sample chain of custody document and analytical report were used to determine sample holding times. All samples were analyzed within the required holding time.

All samples were delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedure.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per analytical batch.

The method blank result was non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the method employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of one per analytical batch.

The LCS contained the analyte of interest. All LCS recoveries were assessed per the "Guidelines" using the laboratory control limits. All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

The MS/MSD analyses were performed on non-investigative samples, which cannot be used to assess the site samples.

6. Analyte Reporting

The laboratory reported detected results down to the laboratory's sample-specific method detection limit (MDL) for the analyte. All soil results were reported on a wet weight basis.

7. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

Regards,



Dajana Gleisner
Environmental Chemist / Data Validator

Table 1

Sample Collection and Analysis Summary
Soil Resampling
Oxy DJ Basin - Bryant 16, 23, 36-30 Wellheads/Flowlines
Northeastern Colorado
December 2024

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>		Comments
						Barium		
16-FL-B01RS@4	16-FL-B01RS	Soil	4	12/17/2024	12:10	X		
BG01@3.5	BG01	Soil	3.5	12/17/2024	09:15	X		
BG04@3.5	BG04	Soil	3.5	12/17/2024	11:55	X		
16-FL-B01RS2@4	16-FL-B01RS2	Soil	4	12/17/2024	12:10	X		

Notes:

ft. bgs. - Feet below ground surface

Table 2

**Analytical Results Summary
Soil Resampling
Oxy DJ Basin - Bryant 16, 23, 36-30 Wellheads/Flowlines
Northeastern Colorado
December 2024**

Location ID:	16-FL-B01RS	16-FL-B01RS2	BG01	BG04
Sample Name:	16-FL-B01RS@4	16-FL-B01RS2@4	BG01@3.5	BG04@3.5
Sample Date:	12/17/2024	12/17/2024	12/17/2024	12/17/2024
Depth:	4 ft BGS	4 ft BGS	3.5 ft BGS	3.5 ft BGS

Parameters Unit

Metals

Barium	mg/kg	126	132	117	17.5
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Notes:

ft. bgs. - Feet below ground surface

Table 3

Analytical Methods
Soil Resampling
Oxy DJ Basin - Bryant 16, 23, 36-30 Wellheads/Flowlines
Northeastern Colorado
December 2024

Parameter	Method	Matrix	Holding Time Collection to Analysis (Days)
Barium	SW-846 6020B	Soil	180

Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions