

284 Sheffield Street Mountainside, NJ 07092

SDG NARRATIVE

USEPA

SDG # Q3688

CASE # Sharkey Landfill Site FYR Reuse Morris County NJ

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # Q3688

A. Number of Samples and Date of Receipt

16 Water samples were delivered to the laboratory intact on 11/19/2025, 11/20/2025, 11/21/2025, 11/24/2025.

B. Parameters

Test requested for Metals CLP12 = Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver, & Mercury.

C. Cooler Temp

Indicator Bottle: **Presence/**Absence

Cooler: 2.7°C, 2.1°C, 2.0°C, & 2.3°C

D. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

E. Calculation:

Calculation for ICP-AES Water Sample:

Concentration or Result (
$$\mu$$
g/L) = $C \times \frac{Vf}{Vi} \times DF \times 1000$

Where,

C = Instrument value in ppm (The average of all replicate exposures)

Vf = Final digestion volume (mL)



284 Sheffield Street Mountainside, NJ 07092

Vi = Initial aliquot amount (mL) (Sample amount taken in prep) DF = Dilution Factor

Example Calculation For Sample M-31S For Chromium:

If C =
$$0.0006719$$
 ppm
Vf = 50 ml
Vi = 50 ml
DF = 1
Concentration or Result (μ g/L) = 0.0006719 x $\frac{50}{50}$ x 1 x 1000
= 0.6719 μ g/L
= 0.67 μ g/L (Reported Result with Signification)

Calculation for Hg Water Sample:

Concentration or Result ($\mu g/L$) = $C \times DF$ Where, $C = Instrument response in <math>\mu g/L$ from the calibration curve. DF = Dilution Factor

Example Calculation:

If C = 0.0278 ppb
$$DF = 1$$

Concentration or Result (μ g/L) = 0.0278 x 1 = 0.0278 μ g/L = 0.028 μ g/L (Reported Result with Signification)

F. QA/QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.



284 Sheffield Street Mountainside, NJ 07092

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature	Name: Nimisha Pandya
Date	Title: Document Control Officer