

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51822 MA No.: _____ SDG No.: MH2H28
SOW No. : SFAM01.1

| EPA Sample No. | Lab Sample Id | ICP-AES | Analysis Method | | |
|----------------|-----------------|---------|-----------------|---------|---------|
| | | | ICP-MS | Mercury | Cyanide |
| <u>MH2H28</u> | <u>Q1102-01</u> | _____ | <u>X</u> | _____ | _____ |
| <u>MH2H29</u> | <u>Q1102-02</u> | _____ | <u>X</u> | _____ | _____ |
| <u>MH2H30</u> | <u>Q1102-03</u> | _____ | <u>X</u> | _____ | _____ |
| <u>MH2H30D</u> | <u>Q1102-04</u> | _____ | <u>X</u> | _____ | _____ |
| <u>MH2H30S</u> | <u>Q1102-05</u> | _____ | <u>X</u> | _____ | _____ |
| <u>MH2H31</u> | <u>Q1102-06</u> | _____ | <u>X</u> | _____ | _____ |

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____
Date: _____ Title: _____

CHAIN OF CUSTODY RECORD

No: 8-011525-125353-0602

Cooler #: 3

Lab Phone: 908-789-8900

[illegible]**Samples Transferred From Chain of Custody #**

Analysis Key: ICP/MS=CLP TAL Total Metals

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|--------------|--|---------------|---|-----------------|---|
| Samples | John Peterson FWT | 11/15/25 1330 |  | 7:25 1.16.25 | IR-Gun #1 2.1" - Custody Seal Intact 1 |
| | | | | | Turned Black Meson |

Custody Seal Infor 1
Temp Blank present

FORM DC-1
SAMPLE LOG-IN SHEET

| | | |
|--|-----------------------|------------------------------|
| Lab Name : Alliance Technical Group, LLC | | Page <u>1</u> of <u>1</u> |
| Received By (Print Name) <u>Cassara Peña</u> | | Log-in Date 1/16/2025 |
| Received By (Signature) <u>[Signature]</u> | | |
| Case Number 51822 | SDG No. MH2H28 | MA No. N/A |

| | |
|--|------------------------------------|
| Remarks: | |
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | <u>n/a</u> |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | <u>818471889725</u> <u>1</u> |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | <u>2.1</u> Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | <u>01/16/2025</u> |
| 12. Time Received | <u>07:25</u> |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding | | Remarks: Condition of Sample Shipment, etc. |
|----|--------------|-----------------------------|---------------|----------------|--|
| | | | Sample Tag # | Assigned Lab # | |
| 1 | MH2H28 | N/A | 24535 | Q1102-01 | Intact |
| 2 | MH2H29 | N/A | 24536 | Q1102-02 | Intact |
| 3 | MH2H30 | N/A | 24537 | Q1102-03 | Intact |
| 4 | MH2H30D | N/A | 24537 | Q1102-04 | Intact |
| 5 | MH2H30S | N/A | 24537 | Q1102-05 | Intact |
| 6 | MH2H31 | N/A | 24538 | Q1102-06 | Intact |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |
| 21 | N/A | N/A | N/A | N/A | N/A |
| 22 | N/A | N/A | N/A | N/A | N/A |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | |
|--------------------------------|-----------------------------|
| Reviewed By <u>[Signature]</u> | Logbook No. N/A |
| Date <u>1/16/25</u> | Logbook Page No. N/A |

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | | | |
|--------------|-------------------------------|---------|----------|
| LAB NAME | Alliance Technical Group, LLC | | |
| LAB CODE | ACE | | |
| CONTRACT NO. | 68HERH20D0011 | | |
| CASE NO. | 51822 | SDG NO. | MH2H28 |
| MA NO. | | SOW NO. | SFAM01.1 |

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

| | PAGE NOS: | | CHECK | |
|--|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 1. SDG Cover Page | 1 | 1 | ✓ | |
| 2. Traffic Report/Chain of Custody Record(s) | 2 | 2 | ✓ | |
| 3. Sample Log-In Sheet (DC-1) | 3 | 3 | ✓ | |
| 4. CSF Inventory Sheet (DC-2) | 4 | 6 | ✓ | |
| 5. SDG Narrative | 7 | 10 | ✓ | |
| 6. Communication Logs | 11 | 16 | ✓ | |
| 7. Percent Solids Log | NA | NA | ✓ | |

Analysis Forms and Data (ICP-AES)

| | | | | |
|--|----|----|---|--|
| 8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable | NA | NA | ✓ | |
| 9. Instrument raw data by instrument in analysis order | NA | NA | ✓ | |

Other Data

| | | | | |
|--|----|----|---|--|
| 10. Standard and Reagent Preparation Logs | NA | NA | ✓ | |
| 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | NA | NA | ✓ | |
| 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | NA | NA | ✓ | |
| 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions | NA | NA | ✓ | |
| 14. Extraction Logs for TCLP and SPLP | NA | NA | ✓ | |
| 15. Raw GPC Data | NA | NA | ✓ | |
| 16. Raw Florisil Data | NA | NA | ✓ | |

Analysis Forms and Data (ICP-MS)

| | | | | |
|---|----|-----|---|--|
| 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable | 17 | 20 | ✓ | |
| 18. Instrument raw data by instrument in analysis order | 21 | 864 | ✓ | |

Other Data

| | | | | |
|--|------|------|---|--|
| 19. Standard and Reagent Preparation Logs | 865 | 1012 | ✓ | |
| 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | 1013 | 1014 | ✓ | |
| 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 1015 | 1021 | ✓ | |
| 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions | NA | NA | ✓ | |

- 23 . Extraction Logs for TCLP and SPLP
- 24 . Raw GPC Data
- 25 . Raw Florisil Data

| PAGE NOS: | | CHECK | |
|-----------|----|-------|--------|
| FROM | TO | LAB | REGION |
| NA | NA | ✓ | |
| NA | NA | ✓ | |
| NA | NA | ✓ | |

Analysis Forms and Data (Mercury)

- 26 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable
- 27 . Instrument raw data by instrument in analysis order

| | | | |
|----|----|---|--|
| NA | NA | ✓ | |
| NA | NA | ✓ | |

Other Data

- 28 . Standard and Reagent Preparation Logs
- 29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks
- 30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks
- 31 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions
- 32 . Extraction Logs for TCLP and SPLP
- 33 . Raw GPC Data
- 34 . Raw Florisil Data

| | | | |
|----|----|---|--|
| NA | NA | ✓ | |
| NA | NA | ✓ | |
| NA | NA | ✓ | |
| NA | NA | ✓ | |
| NA | NA | ✓ | |
| NA | NA | ✓ | |
| NA | NA | ✓ | |

Analysis Forms and Data (Cyanide)

- 35 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable
- 36 . Instrument raw data by instrument in analysis order

| | | | |
|----|----|---|--|
| NA | NA | ✓ | |
| NA | NA | ✓ | |

Other Data

- 37 . Standard and Reagent Preparation Logs
- 38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks
- 39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks
- 40 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions
- 41 . Extraction Logs for TCLP and SPLP
- 42 . Raw GPC Data
- 43 . Raw Florisil Data

| | | | |
|----|----|---|--|
| NA | NA | ✓ | |
| NA | NA | ✓ | |
| NA | NA | ✓ | |
| NA | NA | ✓ | |
| NA | NA | ✓ | |
| NA | NA | ✓ | |
| NA | NA | ✓ | |

Additional

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 1)

Sample Tags

Sample Log-In Sheet (Lab)

45. Misc. Shipping/Receiving Records (list all individual records)

46. Internal Lab Sample Transfer Records and Tracking Sheets
(describe or list)47. Other Records and related Communication Logs
(describe or list)

48. Comments:

Completed by:
(CLP Lab)Audited by:
(EPA)

Nimisha Pandya, Document Control Officer

| PAGE NOs: | | CHECK | |
|-----------|------|-------|--------|
| FROM | TO | LAB | REGION |
| 1022 | 1022 | ✓ | |
| NA | NA | ✓ | |
| 1023 | 1023 | ✓ | |
| NA | NA | ✓ | |
| 1024 | 1024 | ✓ | |
| NA | NA | ✓ | |



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # MH2H28

CASE # 51822

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # Q1102

A. Number of Samples and Date of Receipt

04 Soil samples were delivered to the laboratory intact on 01/16/2025

B. Parameters

Test requested for Metals CLP MS FULL = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 2.1°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The laboratory received soil samples for ICP-MS analysis with a 14 day TAT. However, the COC does not list MA 3105.0. The laboratory would like to confirm if the received samples should be analyzed under MA 3105.0.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, the received samples should be analyzed without MA 3105.0. The laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples.



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Mountainside, NJ 07092**

F. 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.

G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from $\mu\text{g/L}$ or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{V_f}{W \times S} \times \text{DF} / 1000$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)

Vf = Final digestion volume (mL)

W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

Example Calculation For Sample MH2H28 For Antimony:

If C = 11.15 ppb

Vf = 500 ml

W = 1.14 g

S = 1(100/100)

DF = 1

$$\text{Concentration (mg/kg)} = 11.15 \times \frac{500}{1.14 \times 1} \times 1 / 1000$$

$$= 4.8904 \text{ mg/kg}$$

$$= 4.9 \text{ mg/kg (Reported Result with Signification)}$$

H. 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 except for Arsenic and Copper. Duplicate sample did meet requirements. Serial Dilution did meet requirements.



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Mountainside, NJ 07092**

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

| Target Analyte | Associated Internal Standard |
|----------------|------------------------------|
| Antimony | 159Tb |
| Arsenic | 89Y |
| Barium | 159Tb |
| Beryllium | 6Li |
| Cadmium | 159Tb |
| Chromium | 45Sc |
| Cobalt | 45Sc |
| Copper | 45Sc |
| Lead | 209Bi |
| Manganese | 45Sc |
| Nickel | 45Sc |
| Selenium | 89Y |
| Silver | 159Tb |
| Thallium | 209Bi |
| Vanadium | 45Sc |
| Zinc | 45Sc |

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.



**284 Sheffield Street
Mountainside, NJ 07092**

Signature_____

Name: Nimisha Pandya

Date _____

Title: Document Control Officer

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Wednesday, January 22, 2025 3:49 PM
To: Sohil Jodhani; Mohammad Ahmed; Deepak Parmar
Cc: Goodrich.Donald@epa.gov; mark.wood@pwt.com
Subject: Task Area SST | Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC | FINAL
Attachments: Q1102.pdf

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Good afternoon,

Please see the resolution below.

Issue: The laboratory received soil samples for ICP-MS analysis with a 14 day TAT. However, the COC does not list MA 3105.0. The laboratory would like to confirm if the received samples should be analyzed under MA 3105.0.
Resolution: Per Region 8, the received samples should be analyzed without MA 3105.0. The laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please note that the laboratory may contact the appropriate CLP PM should any defects need to be waived for this issue.

Thanks,
Miles Hairston
Associate Environmental Analyst
Under contract to EPA
QSS Coordinator – EPA Regions 7, 8, and 9

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A

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Information Technology

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, January 22, 2025 2:36 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Subject: RE: Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Hi Miles,

Yes, the response back from the Contractor is acceptable.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB / 5247
303-905-4024 (cell) / goodrich.donald@epa.gov

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Wednesday, January 22, 2025 10:28 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Subject: Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Good afternoon Don,

Can you confirm if Mark's response below is acceptable.

Thanks,
Miles Hairston
Associate Environmental Analyst
Under contract to EPA
QSS Coordinator – EPA Regions 7, 8, and 9

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A

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From: Mark R. Wood <mark.wood@pwt.com>
Sent: Wednesday, January 22, 2025 11:43 AM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: goodrich.donald@epa.gov
Subject: Re: Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Hi Miles,
These samples do not require MA3105 analysis.
Thank you,
Mark Wood
303-994-3853
Sent from my iPhone

On Jan 22, 2025, at 7:46 AM, Hairston, Miles (NE) <Miles.Hairston@gdit.com> wrote:

Good morning,

Please advise on the issue below.

Issue: The laboratory received soil samples for ICP-MS analysis with a 14 day TAT. However, the COC does not list MA 3105.0. The laboratory would like to confirm if the received samples should be analyzed under MA 3105.0.

Thanks,
Miles Hairston
Associate Environmental Analyst
Under contract to EPA
QSS Coordinator – EPA Regions 7, 8, and 9

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
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Leave alert: N/A

<image001.png>

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From: Deepak Parmar <Deepak.Parmar@alliancetg.com>

Sent: Wednesday, January 22, 2025 8:47 AM

To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>

Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>

Subject: Region 08 | Case 51822 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Good morning,

As per ASR 14 days TAT scheduled with MA, however on COC there is no MA number mentioned so lab like to this sample required analysis with MA ?

Please see attachment for your reference.

Thanks & Regards,

<image008.jpg>

Deepak Parmar

QA/QC

An Alliance Technical Group Company

Main: 908-789-8900

Direct: 908-728-3154

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

www.alliancetg.com

<image003.png>

<image004.png>

<image005.png>

<image006.png>

<image007.png>

<Q1102.pdf>

No: 8-011525-125353-0602

Lab: Alliance Technical Group LLC

Lab Contact: Sohil Jodhani

Lab Phone: 908-789-8900

[illegible]

Sample(s) to be used for Lab QC: D0660-1-C1 Tag 24537 - Special Instructions: Please return cooler

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP/MS=CLP TAL Total Metals

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|--------------|--|--------------|---|-----------------|-------------------------------|
| Samples | John Peterson FWT | 1/15/25 1330 |  | 7:25 1.16.25 | IR-Gun #1 2.1" - |
| | | | | | Custody Seal Intact 1 |
| | | | | | Empty Blank Reservoir |

Custody Seal Intact!
Temp Blank present