

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# DATA PACKAGE METALS

## **PROJECT NAME : ARC SAYREVILLE POSTEX 2024**

## ARCADIS

50 Millstone Road Suite 220 East Windsor, NJ - 08520 Phone No: 267-685-1822

ORDER ID: P4227

ATTENTION : Kaiti Liao



ACCREDITED ISO/IEC 17025 DOD ELAP

Laboratory Certification ID # 20012



# **Cover Page**

- Order ID: P4227
- Project ID : ARC Sayreville PostEx 2024

Client : Arcadis

| Lab Sample Number | Client Sample Number |
|-------------------|----------------------|
| P4227-01          | PMW-1(20240925)      |
| P4227-02          | PMW-2(20240925)      |
| P4227-03          | PMW-9S(20240926)     |
| P4227-04          | PMW-9D(20240926)     |
| P4227-05          | PMW-8S(20240926)     |
| P4227-06          | PMW-8D(20240926)     |
| P4227-07          | DUP(20240926)        |
| P4227-08          | MW-2(MCUA)(20240926) |
| P4227-09          | PMW-5(20240926)      |
| P4227-10          | MW-1(MCUA)(20240926) |
| P4227-11          | PMW-3(20240927)      |
| P4227-12          | PMW-4(20240927)      |
| P4227-13          | PMW-6(20240927)      |
| P4227-14          | PMW-7S(20240927)     |
| P4227-15          | PMW-7D(20240927)     |
| P4227-16          | PMW-7D(20240927)MS   |
| P4227-17          | PMW-7D(20240927)MSD  |
| P4227-18          | PMW-10(20240927)     |
| P4227-19          | FB(20240925)         |
| P4227-20          | FB(20240926)         |
| P4227-21          | FB(20240927)         |
| P4227-22          | EB(20240927)         |
| P4227-23          | TB(20240924)         |
|                   |                      |

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 manager or his designee, as verified by the following signature.

Signature :

| Copyright © 2023                           | RELINQUISHED BY SAMPLER:<br>3.                    | RELINQUISHED BY SAMPLER:<br>2. | RELINQUISHED BY SAMPLER: |                  | 10.           | 9.             | œ.                     | 7.             | <i>6</i> .      | сл              | 4.               | .ω              | сi          |       | Ū               | CHEMTECH                           |               | STANDARD HA                          |       | FAX (RUSH) _<br>HARDCOPY (D.   |                             | PHONE              | ATTENTION:                      | CITY Eas         | ADDRESS: 5                         | COMPANY:      |                             |  |
|--|---|--------------------------------|--------------------------|------------------|---------------|----------------|------------------------|----------------|-----------------|-----------------|------------------|-----------------|-------------|-------|-----------------|------------------------------------|---------------|--------------------------------------|-------|--|-----------------------------|--------------------|---------------------------------|------------------|------------------------------------|---------------|-----------------------------|--|
|  |   |                                |                          |                  | mW + t(mc)    | Pmw-50         | mil-a(mu               | Dupino         | -MM4            | PMM-            | PMM-             | PmW-            | Pmw-        | PMW-1 |                 | SAME                               |               | STANDARD HARDCOPY TURNAROUND TIME IS |       | (DATA PACKAGE):  | DATA TURNAROUND INFORMATION | 1-567-7900         | ATTENTION: Kaiti Liao           | East windsor     | SVIK 220                           | HCadis US     | CLIENT INFORMATION          | OF CUSTODY REC   |
|  | DATE/TIME:  | DATE/TUME                      | HIZALA ISSO              | USTODY           | CUA)(20240926 | 20240926       | (MW-2(INWA)(202409/26) | NO (JOSHORILE) | 7MW-80(20240926 | PMW-85(20240926 | PMW-90(2024)0924 | PMW-95(20240926 | 2 (20240925 | -     |                 | PROJECT<br>SAMPLE IDENTIFICATION   |               | JND TIME IS                          |       | itandara   | ND INFORMATION              | FAX:               |                                 | STATENJ          | E KO BIOG VOU                      | SENTI         | ORMATION                    | RECORD   |
| WHITE - CHEMTECI                           | RECEIVED BY:<br>3.                                | RECEIVED B                     | 1. T.                    |                  |               |                |                        |                |                 |                 |                  |                 |             |       |                 |                                    |               | 10 BUSINESS DAYS                     |       | DAYS*  | L                           |                    |                                 | ZIP08520         |                                    |               |                             |  |
| WHITE - CHEMTECH COPY FOR RETURN TO CLIENT |   |                                |                          | DOCUMENTED BELOW | 9 MG          | 0W 6           | 5W C                   | Gw G           | GW (:           | GW 6            | 500 6            | 6W 6            | GW G        | 6W (0 | COM             | ┨╣┋                                | CAMDI         | <ul> <li>EDD FORMAT</li> </ul>       |       | <ul> <li>Level 1 (Results Only)</li> <li>Level 2 (Results + QC)</li> <li>Level 3 (Results + OC)</li> </ul> |                             | PHONE: Up-SU1-2903 | e-mail: Kath.                   | PROJECT MANAGER: | PROJECT NO.3                       | PROJECT NAME: |                             | 284 Sheffi<br>(908) 7  |
|  | Page (  | 5                              | Conditions of bottles o  | EAC              | 5051 hohra    | 2 4 JULIN 1435 | Galuly nios            | 9/me(24        | C RIMIN DASS    | 9/26/24 1/55    | 312421 JOSS      | 1/2424 0920     | 41xby       |       | DATE            | COLLEC                             | 1             |                                      |       |  |                             | SU1-2902           | e-mail: Karti Jiao arcadis . co | GER: Kath        | PROJECT NO. 30 184323 LOCATION Say | AE: ARC and   | CLIENT PROJECT INFORMATION  | 284 Sheffield Street, Mountains<br>(908) 789-8900 • Fax (908)<br>www.chemtech.ne |
| YELLOW - CHEMTECH COPY                     | of 3 CF   |                                | ottles or cooler         | AMPLES CHA       | N N           | л<br>Ч         | 5 4                    | ľ              | 4               | E               | L                | Ц<br>И<br>О     | 0           | -     |                 | BOTTLE                             | 1             |                                      |       |  | E INFORMAT                  | FAX:               | Sadis . cu                      | Liao             | DCATION SC                         | d HP20        | T INFORMATIO                | Mountains<br>Fax (908)<br>emtech.ne  |
| CH COPY                                    | CLIENT: D H                                       |                                | t receipt                | NGE POSSE        | 9 0           | R.<br>R        | N N                    | 6              | K               | ×<br>v          | <u>к</u>         | XX              | XX          | XX    | - <b>1</b><br>⊳ | A<br>FT                            |               | 1923                                 |       | II Raw Data)<br>US EPA CLP   | ION                         |                    | SM                              |                  | reville,                           | D             | N                           | side, NJ 07092<br>) 789-8922<br>et   |
| PINK - SAMPLER COPY                        | Hand Delivered<br>Picked Up                       | 2                              | Ser S                    | SSION INCLU      | <u>K</u> .    | 6              | K                      | E              | K               | x               | K                | $\prec$         | ۲           | ×     | 3 4             | 5                                  | PRES          | 3 0 4                                | CAR'S | (C) 503  | - AND                       |                    | ATTEN                           | CITY             | ADDRE                              | BILL TO:      |                             | 07092<br>!2  |
| COPY                                       | <ul> <li>Other</li> <li>Field Sampling</li> </ul> |                                | TANN OF                  | IDING COURI      |               |                |                        |                |                 |                 |                  |                 |             |       | σ<br>6          |                                    | PRESERVATIVES | 5 6                                  |       | N.C.   | 1. 10 M                     | 3                  | ATTENTION Kart                  | CITYEAST WINDSON | ADDRESS SO MILLS DONE              | Arcado        |                             | 0 0 0  |
| -  | ling  | NAU I                          | OOLER HENR               | ER DELIVER       | -             |                |                        |                |                 |                 |                  |                 |             |       | 7 8             | -                                  |               | 7 8                                  |       | $\langle \rangle$  |                             | ANA                | t' Liao                         | Indso/           |                                    | G             | CLIENT BILLI                | CHEMTECH PR<br>QUOTE NO.<br>COC Nuithber   |
|  | Ship  |                                | take                     | Y                | -             |                |                        |                |                 |                 |                  |                 |             |       | 9 C-H2SO4       | A-HCI<br>B-HND3                    |               | 9                                    | /     | $\langle \rangle$  |                             | ANALYSIS           | PHONE:                          | STATE: N         | Ed Bidga                           | Inc PO#:      | CLIENT BILLING, INFORMATION | 041906   |
|  | Shipment Complete                                 | 3                              | voluties                 |                  |               |                | 9                      | <b>-</b>       |                 |                 |                  |                 |             |       | 4               | Specify Preservatives<br>CI D-NaOH | COMMENTS      | 16 L.*                               |       |  |                             |                    | el-Sel-                         | T ZIPORT         | 200 mite 220                       | ÷.            | ON                          | CHEMTECH PROJECT NO. P422;<br>QUOTE NO.<br>COC Nuihber 2041906                   |
|  | •   |                                |                          |                  |               |                |                        |                |                 |                 |                  |                 |             |       |                 | ves                                |               |                                      | _     |  |                             |                    | Luce                            | 8                | 8                                  |               |                             |  |

| CITY CCAN<br>ATTENTION:                                 | CHAIN OF CUSTODY RECORD<br>CHAIN OF CUSTODY RECORD<br>CLIENT INFORMATION<br>REPORT TO BE SENT TO:<br>COMPANY: Artuadis US INC<br>ADDRESS: SUTH UNDER RC Building 200<br>ADDRESS: SUTH 220 RC Building 200<br>ATTENTION: KUTH LIAG<br>ATTENTION: KUTH LIAG<br>PHONE: 267-2900 FAX: | 284 Sheffield Street, Mountainside, NJ 07092<br>(908) 789-8900 • Fax (908) 789-8922<br>www.chemtech.net       CHEMTECH PROJECT NO.<br>DUDTE NO.<br>CLEMT PROJECT INFORMATION       CHEMTECH PROJECT NO.<br>DUDTE NO.<br>COC Number 2041907       PROJECT NAME: ALC AN HPD)<br>PROJECT NAME: ALC AN HPD)<br>PROJECT NAME: ACT IS LICATION SAYRENILLS, NI<br>PROJECT NAMAGER: KOT IS LICATION SAYRENILLS, NI<br>PROJECT MANAGER: KOT IS LICATION SAY |
|---|---|---|
| PHONE: LV   |   | A DELIVERABLE INFORMATION   |
| FAX (RUSH)  | Standard DAYS*  | Level 1 (Results Only) Level 4 (QC + Full Raw Data)   |
|   | KAGE): Standard   | Level 2 (Results + QC)  |
| *TO BE APPROV   |   | + Raw Data) Other   |
| CHEMTECH<br>SAMPLE<br>ID                                | PROJECT<br>SAMPLE IDENTIFICATION  | ← Specify F<br>A-HCI<br>B-HN03  |
| 1.  | PMW-3(20240927)   | × ×   |
| [2  | PMW-4(20240927)   | L<br>L<br>L<br>L<br>L<br>L<br>L<br>L  |
| ų.  | PMW-6(20240927)   | N X X H O   |
| 4.  | PMW-75(20240927)  | 4 X X Y 0501 4 X X Y  |
| <u>5</u>  | pmw-Jp(noryog2)   |   |
| 6.  | PMW-70-MS(20240927)   |   |
| 7.  | MW-70-MS0(20246927)   | alulu 1030 U X X X  |
| 8.  | PMW-10 (20240927)   | ч<br>х  |
| 9.  | 2024  | MIZZIN ISIO Y X X P OIZI MIZZIN   |
| 10.   | FR(2024 0926)   | 1 1 multuren 1530 4 5 8 8   |
|   | SAMPLE CUSTODY MUST BE  | DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY   |
| RELINQUISHED BY SAMPLER:<br>1. RELINQUISHED BY SAMPLER: | DATE/TIME: 1550 RECEIVED  | Conditions of bottles or receipt: D COMPLIANT B NON COMPLIANT I COLLER TEMP<br>Comments: FOR VOCS CLP SOM SFAMOLI, I WE TOUR VOIGTHIES  |
| 2.<br>RELINQUISHED BY SAMPLER:                          | SAMPLER: DATE/TIME: 2.  |   |
| 3.<br>opvright © 2023                                   |   | Page 2 of 3 CHEMTECH: D Picked Up D Field Sampling D YES D NO   |
| Copyright © 2023  |   |   |

| CHAIN OF CUSTODY RECORD  | 284 Sheffield Street, Mountainside, NJ 07092<br>(908) 789-8900 • Fax (908) 789-8922<br>www.chemtech.net   |
|--|---|
| CLIENT INFORMATION   | CLIENT PROJECT INFORMATION  |
| COMPANY: Arcadis US Inc  | BILL TO: Arcadi   |
| ADDRESS: 50 Millstone Rd Bldg 200 Suik 220                             | M323-00001 Sayreville NJ ADDRESS: SU MILLISTONE Ld R  |
|  | The Ligo CITY East windsor  |
| ATTENTION: Kaiti Ligo  | J. Oom Attention: Kaiti Liar PHONE: 267-5   |
| PHONE: 267-8900 FAX:   | ANAL  |
| DATA TURNAROUND INFORMATION  | DATA DELIVERABLE INFORMATION  |
| FAX (RUSH) Stundard DAYS*<br>HARDCOPY (DATA PACKAGE), Stando, rd DAYS* | Level 1 (Results Only)     Level 4 (QC + Full Raw Data)     Level 2 (Results + QC)     NJ Reduced D US EPA CLP     Level 2 (Results + QC)     NJ Reduced D US EPA CLP     Level 3 (Describe + QC)     NVS ASD A D NVS ASD B |
| IS 10 BUSINES  | + Raw Data) Other   |
| CHEMTECH PROJECT<br>SAMPLE SAMPLE IDENTIFICATION                       | SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE COLLECTION PRESERVATIVES COMMENTS  |
| 1. FB(20240927)  | 6 912124 1230 4   |
| 2 EB(20240927)   | HXX   |
| 3. TB(20240924)  |   |
| 4.   |   |
| ŗ,   |   |
| <u>,</u> ,   |   |
| 7.   |   |
| ,œ   |   |
| 9  |   |
| 10.  |   |
|  | SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY  |
| 1. March By SAMPLER: DATE/TIME: 1550 RECEIVED BY.                      | nns: FO VCS C SUMPLANT NON  |
| PELINQUISHED BY SAMPLER: DATE/TIME: RECEIVED BY: 2.                    | IVery CL  |
| RELINQUISHED BY SAMPLER: DATE/TIME: RECEIVED BY:                       | CLIENT: I Hand Delivered  |
| right © 2023   | <   |

#### SAMPLE LOG-IN SHEET

| Lab Name : Alliance Technical Group, LLC Page_1_of          |                      |     |                 |                                  |            |              |                   |                       |  |
|---|----------------------|-----|-----------------|----------------------------------|------------|--------------|-------------------|-----------------------|--|
| Received By (Print Name) Gonse Vesion Log-in Date 9/27/2024 |                      |     |                 |                                  |            |              |                   |                       |  |
| Received By (Signature)                                     |                      |     |                 |                                  |            |              |                   |                       |  |
| Case Number   | ARC Sayreville Poste | SDG | No. P4227       |                                  |            | MA No. N/    | A                 |                       |  |
|   |                      |     |                 |                                  |            |              |                   |                       |  |
| Remarks:  |                      |     |                 |                                  |            | Correspondin |                   |                       |  |
| 1. Custody Seal (s)   | Present, Intact      |     |                 |                                  |            | correspondin |                   | Remarks:<br>Condition |  |
| 2. Custody Seal<br>Nos.                                     | <u>n/a</u>           |     | EPA<br>Sample # | Aqueous<br>Water<br>Sample<br>pH | San<br>Tag |              | Assigned<br>Lab # | of Sample             |  |
| . Traffic<br>Reports/Chain Of                               | Present              | 1   | PMW-1(20240925) | ,1.3                             |            |              | P4227-01          | Intact                |  |
| Custody Records   |                      | 2   | PMW-2(20240925) | ,1.3                             |            |              | P4227-02          | Intact                |  |
| 4. Airbill  | Dresent              | 3   | PMW-9S(2024092  | 6) ,1.3                          |            |              | P4227-03          | Intact                |  |
|   | Present              | 4   | PMW-9D(2024092  | 5) ,1.3                          |            |              | P4227-04          | Intact                |  |
| 5. Airbill No. and  | HAND DELIVERED       | 5   | PMW-8S(2024092  | ),1.3                            |            |              | P4227-05          | Intact                |  |
| Shipping Container<br>ID No. 1                              |                      | 6   | PMW-8D(2024092  | 5),1.3                           |            |              | P4227-06          | Intact                |  |
| 6 Shinning Contains   |                      | 7   | DUP(20240926)   | ,1.3                             |            |              | P4227-07          | Intact                |  |
| 6. Shipping Container<br>Temperature                        | Present              | 8   | MW-2(MCUA)(202  | ( ,1.3                           |            |              | P4227-08          | Intact `              |  |
| Indicator Bottle  |                      | 9   | PMW-5(20240926) | ,1.3                             |            |              | P4227-09          | Intact                |  |
| 7. Shipping Container                                       | 2.3 Degree C         | 10  | MW-1(MCUA)(202  | ( ,1.3                           |            |              | P4227-10          | Intacț                |  |
| Temperature   |                      | 11  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
| 8. Sample   | Intact               | 12  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
| Condition   |                      | 13  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
|   |                      | 14  | N/A             | Ń/A                              | N/A        |              | N/A               | N/A                   |  |
| 9. Sample Tags<br>Sample Tag                                | Absent               | 15  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
| Numbers   | Listed on Traffic    | 16  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
|   | Report               | 17  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
| 10. Does information<br>on Traffic                          | Yes                  | 18  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
| Reports/Chain of<br>Custody Records                         |                      | 19  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
| and Sample Tags   |                      | 20  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
| agree ?   |                      | 21  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
| <ol> <li>Date Received at<br/>Lab</li> </ol>                | 09/27/2024           | 22  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
|   |                      | 23  | N/A             | N/A                              | N/A        |              | N/A               | N/A                   |  |
| 12.Time Received  | 15:50                |     |                 |                                  |            |              |                   |                       |  |

# \* Contact SMO and attach record of resolution

| Reviewed By | Logbook No.      | N/A |
|-------------|------------------|-----|
| Date        | Logbook Page No. | N/A |

## SAMPLE LOG-IN SHEET

| Lab Name : Alliance Technical Group, LLC Page 2 of |   |       |                 |              |     |              |          |                        |  |  |
|--|---|-------|-----------------|--------------|-----|--------------|----------|------------------------|--|--|
| Received By (Prin                                  | Received By (Print Name) GODSE NESULA Log-in Date 9/27/2024 |       |                 |              |     |              |          |                        |  |  |
| Received By (Sig                                   | Received By (Signature)                                     |       |                 |              |     |              |          |                        |  |  |
| Case Number  | ARC Sayreville Poste  | SDG I | No. P4227       |              |     | MA No. N/    | A        |                        |  |  |
|  |   |       |                 |              |     |              |          |                        |  |  |
| Remarks:   |   |       |                 |              |     | Correspondir |          |                        |  |  |
| 1. Custody Seal (s)                                | Present, Intact   |       |                 |              |     | concoponan   |          | Remarks:               |  |  |
|  |   |       |                 | Aqueous      | ł   |              |          | Condition              |  |  |
| 2. Custody Seal<br>Nos.                            | <u>n/a</u>  |       | EPA             | Water        | Sam | nle          | Assigned | of Sample<br>Shipment, |  |  |
|  |   |       | Sample #        | Sample<br>pH | Tag |              | Lab #    | etc.                   |  |  |
| 3. Traffic<br>Reports/Chain Of                     | Present   | 1     | PMW-3(20240927) | ,1.3         |     |              | P4227-11 | Intact                 |  |  |
| Custody Records                                    |   | 2     | PMW-4(20240927) | ,1.3         |     |              | P4227-12 | Intact                 |  |  |
| 4. Airbill   |   | 3     | PMW-6(20240927) | ,1.3         |     |              | P4227-13 | Intact                 |  |  |
|  | Present   | 4     | PMW-75(2024092  | /) ,1.3      |     |              | P4227-14 | Intact                 |  |  |
| - Airbill No. and                                  | HAND DELIVERED  | 5     | PMW-7D(2024092  | 7),1.3       |     |              | P4227-15 | Intact                 |  |  |
| Shipping Container<br>ID No.                       | 2   | 6     | P4227-15MS      | ,1.3         |     |              | P4227-16 | Intact                 |  |  |
|  |   | 7     | P4227-15MSD     | ,1.3         |     |              | P4227-17 | Intact                 |  |  |
| 6. Shipping Container<br>Temperature               | Present   | 8     | PMW-10(2024092  | ),1.3        |     |              | P4227-18 | Intact                 |  |  |
| Indicator Bottle                                   |   | 9     | FB(20240925)    | ,1.3         |     |              | P4227-19 | Intact                 |  |  |
| 7. Shipping Container                              | 2.3 Degree C  | 10    | FB(20240926)    | ,1.3         |     |              | P4227-20 | Intact                 |  |  |
| Temperature  |   | 11    | N/A             | N/A          | N/A |              | N/A      | N/A                    |  |  |
| 8. Sample<br>Condition                             | Intact  | 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                    |  |  |
| 9. Sample Tags<br>Sample Tag                       | Absent  | 15    | N/A             | N/A          | N/A |              | N/A      | N/A                    |  |  |
| Numbers  | Listed on Traffic   | 16    | N/A             | N/A          | N/A |              | N/A      | N/A                    |  |  |
| 10. Does information                               | Report  | 17    | N/A             | N/A          | N/A |              | N/A      | N/A                    |  |  |
| on Traffic   | Yes   | 18    | N/A             | N/A          | N/A |              | N/A      | N/A                    |  |  |
| Reports/Chain of<br>Custody Records                |   | 19    | N/A             | N/A          | N/A |              | N/A      | N/A                    |  |  |
| and Sample Tags                                    |   | 20    | N/A             | N/A          | N/A |              | N/A      | N/A                    |  |  |
| agree ?  |   | 21    | N/A             | N/A          | N/A |              | N/A      | N/A                    |  |  |
| <ol> <li>Date Received at<br/>Lab</li> </ol>       | 09/27/2024  | 22    | N/A             | N/A          | N/A |              | N/A      | N/A                    |  |  |
| 12.Time Received                                   | 15:50   | 23    | N/A             | N/A          | N/A |              | N/A      | N/A                    |  |  |

# \* Contact SMO and attach record of resolution

| Reviewed By | Logbook No.      | N/A |
|-------------|------------------|-----|
| Date        | Logbook Page No. | N/A |

## SAMPLE LOG-IN SHEET

| Lab Name : Allia                    | nce Technical Group,                                      | LLC |              |                 |       | Page 3_of_   |          |                        |
|-------------------------------------|---|-----|--------------|-----------------|-------|--------------|----------|------------------------|
| Received By (Pri                    | nt Name) Boac   | 5 4 | JESUAN       |                 |       | Log-in Date  | 9/27/20  | 24                     |
| Received By (Sig                    | inature)  | A   | A            |                 |       |              |          |                        |
| Case Number                         | Case Number ARC Sayreville Poste SDG No. P4227 MA No. N/A |     |              |                 |       |              |          |                        |
|                                     |   |     |              |                 |       |              |          |                        |
| Remarks:                            |   |     |              |                 |       | Correspondir | ng       |                        |
| 1. Custody Seal (s)                 | Present, Intact   |     |              |                 |       |              |          | Remarks:               |
|                                     |   |     | 1            | Aqueous         | ł     |              |          | Condition<br>of Sample |
| 2. Custody Seal<br>Nos.             | <u>n/a</u>  |     | EPA          | Water<br>Sample | Sam   | nple         | Assigned | · · ·                  |
|                                     |   |     | Sample #     | pH              | Tag # |              | Lab #    | etc.                   |
| 3. Traffic<br>Reports/Chain Of      | Present   | 1   | FB(20240927) | ,1.3            |       |              | P4227-21 | Intact                 |
| Custody Records                     |   | 2   | EB(20240927) | ,1.3            |       |              | P4227-22 | Intact                 |
| 4. Airbill                          | Present   | 3   | TB(20240924) | N/A             |       |              | P4227-23 | Intact                 |
|                                     | Presenc   | 4   | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| 5. Airbill No. and                  | HAND DELIVERED  | 5   | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| Shipping Container<br>ID No.        | 3   | 6   | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| 6. Shipping Container               |   | 7   | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| Temperature                         | Present   | 8   | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| Indicator Bottle                    |   | 9   | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| 7. Shipping Container               | 2.3 Degree C  | 10  | N/A          | Ň/A             | N/A   |              | N/A      | N/A                    |
| Temperature                         |   | 11  | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| 8. Sample<br>Condition              | Intact  | 12  | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| Condition                           |   | 13  | N/A          | N/A             | N/A   | 9            | N/A      | N/A                    |
|                                     |   | 14  | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| 9. Sample Tags<br>Sample Tag        | Absent  | 15  | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| Numbers                             | Listed on Traffic   | 16  | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| 10. Does information                | Report  | 17  | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| on Traffic                          | Yes   | 18  | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| Reports/Chain of<br>Custody Records |   | 19  | N/A          | N/A             | N/A   |              | N/A      | N/A                    |
| and Sample Tags<br>agree ?          |   | 20  | N/A          | 1               | N/A   |              | N/A      | N/A                    |
|                                     |   | 21  | N/A          |                 | N/A   |              | N/A      | N/A                    |
| 11. Date Received at<br>Lab         | 09/27/2024  | 22  | N/A          |                 | N/A   |              | N/A      | N/A                    |
| 12.Time Received                    | 15:50   | 23  | N/A          | N/A             | N/A   |              | N/A      | N/A                    |

# \* Contact SMO and attach record of resolution

τ

| Reviewed By | Logbook No.      | N/A |
|-------------|------------------|-----|
| Date        | Logbook Page No. | N/A |

|      |            | FC       | DRM I | DC-2 |       |           |       |
|------|------------|----------|-------|------|-------|-----------|-------|
| FULL | INORGANICS | COMPLETE | SDG   | FILE | (CSF) | INVENTORY | SHEET |

|   | LAB NAME     | CHEMTECH CONSULTING GROUP           |
|---|--------------|-------------------------------------|
|   | LAB CODE     | ACE                                 |
|   | CONTRACT NO. | EPW14030                            |
|   | CASE NO.     | ARC Sayreville PostEx SDG NO. P4227 |
| 1 | MA NO.       | 30184323.0001                       |
|   | 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      | ТО | LAB   | REGION |
| 1. SDG Cover Page  | 1         | 2  |       |        |
| 2. Sample TR/COCs  | 3         | 5  |       |        |
| 3. Sample Login Sheet (DC-1)                                   | 6         | 8  | _ ✓   |        |
| 4. CSF Inventory Sheet (DC-2)                                  | 9         | 12 | ✓     |        |
| 5. SDG Narrative   | 13        | 15 |       |        |
| Inorganic Analysis   |           |    |       |        |
| ICP-AES<br>6. Inorganic Analysis Data Sheet (Form 1-IN)        | NA        | NA | ✓     |        |
| 7. Initial and Continuing Calibration Verification (Form 2-IN) | NA        | NA |       |        |
| 8. Blanks (Form 3-IN)  | NA        | NA | ✓     |        |
| 9. ICP Interference Check Sample (Form 4-IN)                   | NA        | NA |       |        |
| 10. Matrix Spike Sample Recovery (Form 5A-IN)                  | NA        | NA |       |        |
| 11. Post-Digestion Spike Sample Recovery (Form 5B-IN)          | NA        | NA | ✓     |        |
| 12. Duplicates (Form 6-IN)                                     | NA        | NA | _ ✓   |        |
| 13. Laboratory Control Sample (Form 7-IN)                      | NA        | NA |       |        |
| 14. ICP-AES Serial Dilutions (Form 8-IN)                       | NA        | NA |       |        |
| 15. Method Detection Limits (Form 9-IN)                        | NA        | NA |       |        |

#### FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

|  | PAGE NOS: |    | CHECK |        |
|--|-----------|----|-------|--------|
|  | FROM      | TO | LAB   | REGION |
| 16. ICP-AES Interelement Correction Factors (Form 10A-IN)  | NA        | NA |       | ·      |
| 17. ICP-AES Interelement Correction Factors (Form 10B-IN)  | NA        | NA | ✓     |        |
| 18. Analysis Log (Form 12-IN)  | NA        | NA | ✓     |        |
| 19. Initial Calibration (Form 15-IN)   | NA        | NA | ✓     |        |
| 20. Initial Calibration Summary (Form 16-IN)   | NA        | NA |       |        |
| 21. ICP-AES Raw Data   | NA        | NA | ✓     |        |
| 22. ICP-AES Preparation Log Books, Preparation records,<br>Analysis records, and PE Instructions | NA        | NA |       |        |
| ICP-MS   |           |    |       |        |
| 23. Inorganic Analysis Data Sheet (Form 1-IN)  | 16        | 35 | ✓     |        |
| 24. Initial and Continuing Calibration Verification (Form 2-IN)                                  | 36        | 41 | ✓     |        |
| 25. Blanks (Form 3-IN)   | 42        | 45 | ✓     |        |
| 26. ICP Interference Check Sample (Form 4-IN)  | 46        | 47 |       |        |
| 27. Matrix Spike Sample Recovery (Form 5A-IN)  | 48        | 48 |       |        |
| 28. Post-Digestion Spike Sample Recovery (Form 5B-IN)  | 49        | 49 |       |        |
| 29. Duplicates (Form 6-IN)   | 50        | 50 | ✓     |        |
| 30. Laboratory Control Sample (Form 7-IN)  | 51        | 51 | ✓     |        |
| 31. ICP-MS Serial Dilutions (Form 8-IN)  | 52        | 52 |       |        |
| 32. Method Detection Limits (Form 9-IN)  | 53        | 53 | ✓     |        |
| 33. ICP-MS Internal Standard Association (Form 11-IN)  | 54        | 55 |       |        |
| 34. Analysis Log (Form 12-IN)  | 56        | 61 | ✓     |        |
| 35. ICP-MS Tune (Form 13-IN)   | 62        | 63 | ✓     |        |
| 36. ICP-MS Internal Standard Relative Intensity Summary (Form 14-IN)                             | 64        | 91 | ✓     |        |
| 37. Initial Calibration (Form 15-IN)   | 92        | 97 | ✓     |        |
|  |           |    |       |        |

#### FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| PROM         TO         LAR         REGION           39. UC=+KS Nuw Para         100. LEF-HS Properation Seconds,<br>Manyels records, and PE Instructions         100. LEF-HS Properation Log Books, Proparation records,<br>Manyels records, and PE Instructions         1381. I.2.0         ✓           41. Increasic Analysis Data Sheet (Form 1-18)         1545. 1564. ✓         ✓           42. Initial and Continuing Calibration Verification (Form 2-18)         1965. 1567. ✓         ✓           43. Rianks (Form 3-TW)         1565. 1567. ✓         ✓         ✓           44. Matrix Spike Sample Recovery (Form 5A-IN)         1965. 1569. ✓         ✓         ✓           45. Dupitontas (Form 6-TN)         1566. 1569. ✓         ✓         ✓           46. Mathod Detection Limits (Form 9-18)         1570. 1270. ✓         ✓         ✓           47. Analysis Leg (Form 12-20)         1577. 1571. ✓         ✓         ✓           48. Initial Calibration (Sorm 15-TN)         1577. 1578. ✓         ✓         ✓           49. Initial Calibration (Sorm 16-TN)         1577. 1578. ✓         ✓         ✓           49. Initial Calibration Summary (Form 16-TN)         1577. 1578. ✓         ✓         ✓           50. Matrix Shape Back (Form 1-TN)         1577. 1508. ✓         ✓         ✓           51. Initial Calibration Same (Form 1-TN)         NA |   | PAGE NOS: |      | CHECK |        |  |
|--|---|-----------|------|-------|--------|--|
| 39. TCP-M8 Raw Data       108       1383       ✓         40. ICP-M8 reparation Log Books, Preparation records,<br>Analysis records, and PE Instructions       1386       1386       ✓         41. Inorganic Analysis Data Scheet (rorm 1-18)       1545       1564       ✓       ✓         42. Thitial and Continuing Calibration Verification (Form 2-TN)       1388       1386       ✓       ✓         43. Slanks (Form 3-18)       1567       ✓       ✓       ✓       ✓         44. Matrix Spike Sample Recovery (Form 5A-18)       1568       ✓       ✓       ✓         45. Suplimates (Form 6-TN)       1589       1568       ✓       ✓         46. Method Detection Limits (Form 9-18)       1570       ✓       ✓       ✓         47. Analysis Log (Form 12-TN)       13571       ✓       ✓       ✓       ✓         49. Initial Calibration Summary (Form 16-TN)       1572       1573       ✓       ✓       ✓         50. Mercury Ray Data       1573       1573       ✓       ✓       ✓       ✓       ✓         51. Intructions cecords, and PE Instructions       1577       1576       ✓       ✓       ✓       ✓       ✓         52. Inorganic Analysis Data Scheet (Form 1-TN)       NA       ✓       ✓ <t< th=""><th></th><th>FROM</th><th>ТО</th><th>LAB</th><th>REGION</th></t<>   |   | FROM      | ТО   | LAB   | REGION |  |
| 40 . ICP-MS Preparation Log Books, Preparation records,<br>Analysis records, and PE Instructions       1386       1544       ✓         41 . Inorganic Analysis Data Sheet (Form 1-IN)       1345       1564       ✓         42 . Initial and Continuing Calibration Verification (Form 2-IN)       1365       1566       ✓         43 . Blacks (Form 3-TN)       1366       1568       ✓         44 . Matrix Spike Sample Recovery (Form 5A-IN)       1568       ✓       ✓         45 . Duplicates (Form 6-IN)       1568       ✓       ✓         46 . Mathed Detection Limits (Form 9-IN)       1570       ✓       ✓         47 . Analysis Log (Form 12-IN)       1577       1570       ✓         48 . Initial Calibration (Form 15-IN)       1577       1571       ✓         49 . Initial Calibration Summary (Form 16-IN)       1574       ✓       ✓         50 . Mercury Raw Data       1375       1376       ✓         51 . Mercury Preparation Log Books, Preparation records,<br>Analysis Decords, and PE Instructions       1577       1608       ✓         52 . Inorganic Analysis Data Sheet (Form 1-IN)       NA       NA       ✓       ✓         53 . Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA       ✓         54 . Blanks (Form 3-IN)       NA       <   | 38. Initial Calibration Summary (Form 16-IN)                    | 98        | 99   | ✓     |        |  |
| Analysis records, and PI Instructions         Mercory         41. Inorganic Analysis Data Sheet (Form 1-IN)       1545       1564       ✓         42. Initial and Continuing Calibration Verification (Form 2-IN)       1565       1566       ✓         43. Blanks (Form 3-IN)       1567       1567       ✓       ✓         44. Matrix Spike Sample Recovery (Form SA-IN)       1568       ÍS68       ✓         45. Duplicates (Form 6-IN)       1569       ✓       ✓         46. Method Detection Limits (Form 9-IN)       1570       ÍS71       ✓         47. Analysis Log (Form 12-IN)       1571       ÍS71       ✓         48. Initial Calibration (Form 15-IN)       1572       ÍS73       ✓         49. Initial Calibration Summary (Form 16-IN)       1574       ✓       ✓         50. Mercory Raw Data       1575       ÍS76       ✓       ✓         51. Mercory Preparation Log Books, Freperation records,<br>Analysis records, and PE Instructions       1577       1608       ✓         52. Inorganic Analysis Data Sheet (Form 1-IN)       NA       NA       ✓       ✓         53. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA       ✓         54. Blanks (Form 3-IN)       NA       ✓       ✓       ✓  | 39. ICP-MS Raw Data   | 100       | 1383 | ✓     |        |  |
| 41. Fronganic Analysis Data Sheet (Form 1-TN)       1545       1564       ✓         42. Initial and Continuing Calibration Verification (Form 2-TN)       1565       1566       ✓         43. Blanks (Form 3-TN)       1567       ✓       ✓         44. Matrix Spike Sample Recovery (Form 5A-TN)       1569       ✓       ✓         45. Duplicates (Form 6-TN)       1569       ✓       ✓         46. Method Detection Limits (Form 9-TN)       1570       ✓       ✓         47. Analysis Log (Form 12-TN)       1571       ✓       ✓         48. Initial Calibration (Form 15-TN)       1572       1573       ✓         49. Initial Calibration Summary (Form 16-TN)       1572       1574       ✓         50. Mercury Rax Data       1575       1576       ✓         51. Mercury Preparation Log Books, Preparation records, Analysis records, and PE Instructions       1577       1608       ✓         52. Inorganic Analysis Data Sheet (Form 1-TN)       NA       NA       ✓       ✓         53. Initial and Continuing Calibration Verification (Form 2-TN)       NA       NA       ✓         54. Blanks (Form 3-TN)       NA       ✓       ✓       ✓         55. Matrix Spike Sample Recovery (Form 5A-TN)       NA       NA       ✓  |   | 1384      | 1544 |       |        |  |
| 42. Initial and Continuing Calibration Verification (Form 2-IN)       1565       1566       ✓         43. Blanks (Form 3-IN)       1567       1567       ✓         44. Matrix Spike Sample Recovery (Form 5A-IN)       1568       1568       ✓         45. Duplicates (Form 6-IN)       1569       ✓       ✓         46. Method Detection Limits (Form 9-IN)       1570       1570       ✓         47. Analysis Log (Form 12-IN)       1571       ✓       ✓         48. Initial Calibration (Form 13-IN)       1572       1577       ✓         49. Initial Calibration Summary (Form 16-IN)       1575       1576       ✓         50. Mercury Preparation Log Books, Preparation records,<br>Analysis records, and PE Instructions       1577       1600       ✓         51. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA       ✓         53. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA       ✓         54. Blanks (Form 3-IN)       NA       ✓       ✓       ✓         55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA       ✓         56. Fost-Distillation spike Sample Recovery (Form 5B-IN)       NA       ✓       ✓         57. Duplicates (Form 6-IN)       NA       ✓       ✓ <td>Mercury</td> <td></td> <td></td> <td></td> <td></td>  | Mercury   |           |      |       |        |  |
| 43. Blanks (Form 3-IN)       1.567       1.567       ✓         44. Matrix Spike Sample Recovery (Form 5A-IN)       1.568       1.568       ✓         45. Duplicates (Form 6-IN)       1.568       1.569       ✓         46. Method Detection Limits (Form 9-IN)       1.570       ✓  | 41. Inorganic Analysis Data Sheet (Form 1-IN)                   | 1545      | 1564 | ✓     |        |  |
| 44. Matrix Spike Sample Recovery (Form 5A-IN)       1568       1568          45. Duplicates (Form 6-IN)       1569       1569          46. Method Detection Limits (Form 9-IN)       1570       1570          47. Analysis Log (Form 12-IN)       1571       1571          49. Initial Calibration (Form 15-IN)       1572       1573          49. Initial Calibration Summary (Form 16-IN)       1574       1574          50. Mercury Raw Data       1575       1576          51. Mercury Preparation Log Books, Preparation records,<br>Analysis records, and PE Instructions       1577       1608          52. Inorganic Analysis Data Sheet (Form 1-IN)       NA       NA          53. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA          54. Blanks (Form 3-IN)       NA            55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA          56. Fost-Distillation Spike Sample Recovery (Form 5B-IN)       NA       NA          57. Duplicates (Form 6-IN)       NA       NA  | 42. Initial and Continuing Calibration Verification (Form 2-IN) | 1565      | 1566 | ✓     |        |  |
| 45. Duplicates (Form 6-IN)       1569       1569          46. Method Detection Limits (Form 9-IN)       1570       1570          47. Analysis Log (Form 12-IN)       1571       1571          48. Initial Calibration (Form 15-IN)       1572       1573          49. Initial Calibration Summary (Form 16-IN)       1574       1574          50. Mercury Raw Data       1575       1576          51. Mercury Preparation Log Books, Preparation records,<br>Analysis records, and PE Instructions       1577       1608          52. Inorganic Analysis Data Sheet (Form 1-IN)       NA       NA          53. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA          54. Blanks (Form 3-IN)       NA       NA          55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA          56. Post-Distillation Spike Sample Recovery (Form 5B-IN)       NA       NA          57. Duplicates (Form 6-IN)       NA       NA  | 43. Blanks (Form 3-IN)  | 1567      | 1567 |       |        |  |
| 46. Method Detection Limits (Form 9-IN)       1570       1570       ✓         47. Analysis Log (Form 12-IN)       1571       1571       ✓         48. Initial Calibration (Form 15-IN)       1572       1573       ✓         49. Initial Calibration Summary (Form 16-IN)       1574       1574       ✓         50. Mercury Raw Data       1575       1576       ✓         51. Mercury Preparation Log Books, Preparation records, Analysis records, and PE Instructions       1577       1608       ✓         52. Inorganic Analysis Data Sheet (Form 1-IN)       NA       NA       ✓         53. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA       ✓         54. Blanks (Form 3-IN)       NA       NA       ✓         55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA       ✓         56. Post-Distillation Spike Sample Recovery (Form 5B-IN)       NA       NA       ✓         57. Duplicates (Form 6-IN)       NA       NA       ✓  | 44. Matrix Spike Sample Recovery (Form 5A-IN)                   | 1568      | 1568 | ✓     |        |  |
| 47. Analysis Log (Form 12-IN)       1571       1571          48. Initial Calibration (Form 15-IN)       1572       1573          49. Initial Calibration Summary (Form 16-IN)       1574       1574          50. Mercury Raw Data       1575       1576          51. Mercury Raw Data       1577       1608          52. Inorganic Analysis Data Sheet (Form 1-IN)       NA       NA          53. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA          54. Blanks (Form 3-IN)       NA       NA           55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA          56. Fost-Distillation Spike Sample Recovery (Form 5B-IN)       NA       NA          57. Duplicates (Form 6-IN)       NA       NA  | 45. Duplicates (Form 6-IN)                                      | 1569      | 1569 |       |        |  |
| 48. Initial Calibration (Form 15-IN)       1572       1573   | 46. Method Detection Limits (Form 9-IN)                         | 1570      | 1570 | ✓     |        |  |
| 49. Initial Calibration Summary (Form 16-IN)       1574       1574       1574         50. Mercury Raw Data       1575       1576       1576         51. Mercury Preparation Log Books, Preparation records, Analysis records, and PE Instructions       1577       1608       1608         Cyanide         52. Inorganic Analysis Data Sheet (Form 1-IN)       NA       NA       1         53. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA       1         54. Blanks (Form 3-IN)       NA       NA       1       1         55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA       1         56. Post-Distillation Spike Sample Recovery (Form 5B-IN)       NA       NA       1         57. Duplicates (Form 6-IN)       NA       NA       1  | 47. Analysis Log (Form 12-IN)                                   | 1571      | 1571 |       |        |  |
| 50. Mercury Raw Data       1575       1576       ✓         51. Mercury Preparation Log Books, Preparation records,<br>Analysis records, and PE Instructions       1577       1608       ✓         Cyanide       52. Inorganic Analysis Data Sheet (Form 1-IN)       NA       NA       ✓         53. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA       ✓         54. Blanks (Form 3-IN)       NA       NA       ✓         55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA       ✓         56. Post-Distillation Spike Sample Recovery (Form 5B-IN)       NA       NA       ✓         57. Duplicates (Form 6-IN)       NA       NA       ✓   | 48. Initial Calibration (Form 15-IN)                            | 1572      | 1573 | ✓     |        |  |
| 51. Mercury Preparation Log Books, Preparation records,<br>Analysis records, and PE Instructions       1577       1608 <b>Cyanide</b> 52. Inorganic Analysis Data Sheet (Form 1-IN)       NA       NA          53. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA          54. Blanks (Form 3-IN)       NA       NA          55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA          56. Post-Distillation Spike Sample Recovery (Form 5B-IN)       NA       NA          57. Duplicates (Form 6-IN)       NA       NA  | 49. Initial Calibration Summary (Form 16-IN)                    | 1574      | 1574 | ✓     |        |  |
| Analysis records, and PE Instructions  Cyanide  52. Inorganic Analysis Data Sheet (Form 1-IN)  53. Initial and Continuing Calibration Verification (Form 2-IN)  54. Blanks (Form 3-IN)  55. Matrix Spike Sample Recovery (Form 5A-IN)  56. Post-Distillation Spike Sample Recovery (Form 5B-IN)  57. Duplicates (Form 6-IN)  Analysis Data Sheet (Form 6-IN)  NA NA   | 50. Mercury Raw Data  | 1575      | 1576 |       |        |  |
| 52. Inorganic Analysis Data Sheet (Form 1-IN)       NA       NA       ✓         53. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA       ✓         54. Blanks (Form 3-IN)       NA       NA       ✓         55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA       ✓         56. Post-Distillation Spike Sample Recovery (Form 5B-IN)       NA       NA       ✓         57. Duplicates (Form 6-IN)       NA       NA       ✓   |   | 1577      | 1608 |       |        |  |
| 53. Initial and Continuing Calibration Verification (Form 2-IN)       NA       NA       ✓         54. Blanks (Form 3-IN)       NA       NA       ✓         55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA       ✓         56. Post-Distillation Spike Sample Recovery (Form 5B-IN)       NA       NA       ✓         57. Duplicates (Form 6-IN)       NA       NA       ✓   | Cyanide   |           |      |       |        |  |
| 54. Blanks (Form 3-IN)       NA       NA       ✓         55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA       ✓         56. Post-Distillation Spike Sample Recovery (Form 5B-IN)       NA       NA       ✓         57. Duplicates (Form 6-IN)       NA       NA       ✓   | 52. Inorganic Analysis Data Sheet (Form 1-IN)                   | NA        | NA   | ✓     |        |  |
| 55. Matrix Spike Sample Recovery (Form 5A-IN)       NA       NA       ✓         56. Post-Distillation Spike Sample Recovery (Form 5B-IN)       NA       NA       ✓         57. Duplicates (Form 6-IN)       NA       NA       ✓  | 53. Initial and Continuing Calibration Verification (Form 2-IN) | NA        | NA   |       |        |  |
| 56. Post-Distillation Spike Sample Recovery (Form 5B-IN)       NA       ✓         57. Duplicates (Form 6-IN)       NA       ✓  | 54. Blanks (Form 3-IN)  | NA        | NA   | ✓     |        |  |
| 57. Duplicates (Form 6-IN) NA NA 🖌   | 55. Matrix Spike Sample Recovery (Form 5A-IN)                   | NA        | NA   | ✓     |        |  |
|  | 56. Post-Distillation Spike Sample Recovery (Form 5B-IN)        | NA        | NA   | ✓     |        |  |
| 58. Method Detection Limits (Form 9-IN)  | 57. Duplicates (Form 6-IN)                                      | NA        | NA   | _ ✓   |        |  |
|  | 58. Method Detection Limits (Form 9-IN)                         | NA        | NA   |       |        |  |

#### FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

|            |  |   | PAGE NOS:   |         | CHECK      |        |
|------------|--|---|-------------|---------|------------|--------|
|            |  |   | FROM        | ТО      | LAB        | REGION |
| 59.        | Analysis Log (Form 12-IN)  |   | NA          | NA      | ✓          |        |
| 60.        | Initial Calibration (Form 15-IN)   |   | NA          | NA      |            |        |
| 61.        | Initial Calibration Summary (Form 16-IN)   |   | NA          | NA      |            |        |
| 62.        | Cyanide Raw Data   |   | NA          | NA      |            |        |
|            | Cyanide Preparation Log Books, Preparation recordanalysis records, and PE Instructions | ds,   | NA          | NA      |            |        |
|            | <b>tional</b><br>Percent Solids Determination Log                                      |   | NA          | NA      | 1          |        |
|            | EPA Shipping/Receiving Documents   |   | NA          | NA      |            |        |
|            | Airbill (No. of Shipments 0 )  |   | NA          | NA      |            |        |
|            | Sample Tags  |   | NA          | NA      |            |        |
|            | Sample Log-In Sheet (Lab)  |   | 1609        | 1612    |            |        |
| 66.        | Misc. Shipping/Receiving Records(list all indiv  | idual records)                                |             |         |            |        |
|            | Communication Logs   |   | NA          | NA      | _ ✓        |        |
| 67         | Internal Lab Sample Transfer Records &   |   |             |         |            |        |
| 07.        | Tracking Sheets (describe or list)   |   | 1613        | 1616    | ,          |        |
|            |  |   |             | 1010    | _ <b>√</b> |        |
| 68.        | Other Records (describe or list) Communication   | Logs  | NA          | NA      | _ ✓        |        |
| 69.        | Comments:  |   |             |         |            |        |
|            | pleted by:<br>P Lab)   | Nimicha Dandua Dacum                          | ont Control | Officer |            |        |
| ,01        | (Signature)  | Nimisha Pandya, Docum<br>(Print Name & Title) |             | UTITCEL | (Da        | te)    |
| Aud<br>(EP | ited by:<br>A)   |   |             |         |            |        |
|            | (Signature)  | (Print Name & Title)                          |             |         | (Da        | te)    |



# 284 Sheffield Street Mountainside, NJ 07092

# **SDG NARRATIVE**

USEPA SDG # P4227 CASE # ARC Sayreville PostEx 2024 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID #P4227

#### A. Number of Samples and Date of Receipt

20 Water samples were delivered to the laboratory intact on 09/27/2024.

#### **B.** Parameters

Test requested for Metals CLP MS = Aluminum, Antimony, Arsenic, Beryllium, Cadmium, Chromium, Iron, Lead, Manganese, Nickel, Thallium and Hg.

## C. Cooler Temp

Indicator Bottle: <u>Presence/</u>Absence Cooler: 2.3°C

#### **D.** Analytical Techniques:

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

#### E. Calculation:

## Calculation for ICP-MS Water Sample:

# Concentration or Result ( $\mu g/L$ ) = C x Vf Vi VF

Where,

C = Instrument value in ppb (The average of all replicate integrations)
 Vf = Final digestion volume (mL)
 Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
 DF = Dilution Factor



#### Example Calculation For Sample PMW-1(20240925) For Lead:

If C = 0.40 ppb Vf = 50 ml Vi = 50 ml DF = 1

Concentration or Result ( $\mu$ g/L) = 0.40 x  $\underline{50}$  x 1  $\underline{50}$ 

 $= 0.40 \, \mu g/L$ 

=  $0.40 \ \mu g/L$  (Reported Result with Signification)

#### **Calculation for Hg Water Sample**:

Concentration or Result ( $\mu g/L$ ) = C x DF

Where,

C = Instrument response in  $\mu g/L$  from the calibration curve. DF = Dilution Factor

#### Example Calculation For Sample PMW-1(20240925):

If C = 1.3197 ppb DF = 1 Concentration or Result ( $\mu$ g/L) = 1.3197 x 1 = 1.3197  $\mu$ g/L = 1.3  $\mu$ 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

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.

| Target Analyte | Associated<br>Internal Standard |
|----------------|---------------------------------|
| Aluminum       | 45Sc                            |
| Antimony       | 159Тb                           |
| Arsenic        | 89Y                             |
| Beryllium      | 6Li                             |
| Cadmium        | 159ТЬ                           |
| Chromium       | 45Sc                            |
| Iron           | 45Sc                            |
| Lead           | 209Bi                           |
| Manganese      | 45Sc                            |
| Nickel         | 45Sc                            |
| Thallium       | 209Bi                           |

Internal Standard Association for ICP-MS analysis.

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