	ce Technical Group, LLG		68HERH2	0D0011	
Lab Code: ACE	Case No.: 51879	MA No.:			SDG No.: MBHD2
SOW No. : SFAM01	.1				
EPA Sample No.	Lab Sample Id	ICP-AES	Analysi ICP-MS	s Method Mercury	Cyanide
MBHD2	P4982-01	Х			
MBHJ34	P4982-02	X			
MBHJ35	P4982-03	X			
MBHJ36	P4982-04	X			
MBHJ37	P4982-05	X			
MBHJ38	P4982-06	X			
MBHJ39	P4982-07	X			
MBHJ40	P4982-08	X			
MBHJD1	P4982-09	X			
MBHJD3	P4982-10	X			
MBHJD4	P4982-11	X			
MBHJD5	P4982-12	X			
MBHJD6	P4982-13	X			
MBHJD7	P4982-14	X			
MBHJE9	P4982-15	X			
MBHJF0	P4982-16	X			
MBHJF1	P4982-17	X			
MBHJF2	P4982-18	X			
MBHJF3	P4982-19	X			
MBHJF4	P4982-20	X			
MBHJF4D	P4982-21	X			

SDG COVER PAGE

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.

Х

P4982-22

Signature:	 Name:	

Date:

MBHJF4S

Title:

Bitter Concluse         Contract Name         Concret N										
Cooler #: 5         Cooler #: 5         Location (Days)       Location (Days)         Location (Days)       Location (Days)         ICP-AES(35)       2116 (Wet ice < 6 C) (1)	7)	Tep blow.		45/cc/11 2	AN AN					
Case #: 51879 Cooler #: 5         Cooler #: 5         Location (Days)       Location (Days)         Location (Days)       Location (Days)         Location (Days)       Location (Days)         Location (Days)       Location (Days)         Location (Days)       Location (P-AES(35)         Cooler #: 5         ICP-AES(35)       2116 (Wet ice < 6 C) (1)	(m +)	<u>ر</u> ت (	11/23/244	Penn		NSP		Chill	cooler	
Case #: 51879 Cooler #: 5           Cooler #: 5           Location (Days)         Location (Days)         Location (Days)           ICP-AES(35)         5459 (Wet ice < 6 C) (1)	Upon Receipt	+		ed by (Signature and Organization)		ganization)	y (Signature and Org	Relinquished by	Items/Reason	
ottles     Location       (1)     P143-SB-30       (1)     P143-SB-08       (1)     P143-SB-30       (1)     P143-SB-30       (1)     P143-SB-30					09 Metals	SD SOP C-10	ne - SFAM01.1/LSA	AES=CLP Routi	vnałysis Key: ICP-/	
CHAIN OF CUSTOUY RECORD           Case #: 51879 Cooler #: 5           Cooler #: 5           Cool // I           PI43-SB	ustody #	ed From Chain of C	Shipment for Case Samples Transferre		1JC40, MBHJC39, MBHJC38 1JD5, MBHJD7, MBHJF5, ME	Bamples MBH BHJD4, MBH	IF4 is an MS/MSD. \$ BHJD2, MBHJD3, W I sample mass.	:: Sample MBHJ 34, MBHJD1 MI JE9 have limited	pecial Instructions MBHJC35, MBHJC MBHJF0 and MBH.	
COPY         Case #: 51879           Case #: 51879           Coller #: 5           Soil/         PI43-SB-08           Soil/         PI43-SB-08           Soil/         PI43-SB-08           Soil/         PI43-SB-08           Soil/         PI43-SB-08           Soil/         PI43-SB-08           Soil/ <th colspa<="" td=""><td></td><td>11/18/2024 13:10</td><td></td><td>5460 (Wet ice &lt; 6 C) (1)</td><td>ICP-AES(35)</td><td></td><td>Soil/</td><td>MBHJD3</td><td>P143-SB-30-Z06- 12</td></th>	<td></td> <td>11/18/2024 13:10</td> <td></td> <td>5460 (Wet ice &lt; 6 C) (1)</td> <td>ICP-AES(35)</td> <td></td> <td>Soil/</td> <td>MBHJD3</td> <td>P143-SB-30-Z06- 12</td>		11/18/2024 13:10		5460 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJD3	P143-SB-30-Z06- 12
COPY)         Case #: 51879 Case #: 51879           Case #: 51879 Cooler #: 5           Cooler #: 5           Tag/Preservative/Bottles         Location           pipe No.         Matrix/Sampler         Method         ICP-AES(35)         2459 (Wet ice < 6 C) (1)         P143-SB-08           BHJ36         Soil/         P143-SB-08           Soil/		11/18/2024 13:10		5458 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJD1	P143-SB-30-Z00- 02	
CHAIN OF CUSTOUY RECORD           Case # 51879 Cooler # 5           Cooler # 5           Location           pipe No.         Matrix/Sampler         Coll         Analysis/Furmaround         Tag/Preservative/Bottles         Location           pipe No.         Method         ICP-AES(35)         5459 (Wet ice < 6 C) (1)         P143-SB-08           BHJ35         Soil/         Grap Preservative/Bottles         Location           grap Preservative/Bottles         Soil/         P143-SB-08           BHJ36         Soil/         ICP-AES(35)         2119 (Wet ice < 6 C) (1)         P143-SB-08           BHJ37         Soil/         ICP-AES(35)         2050 (Wet ice < 6 C) (1)         P143-SB-08           BHJ38         Soil/         ICP-AES(35)         2050 (Wet ice < 6 C) (1)         P143-SB-08 <th col<="" td=""><td></td><td>11/18/2024 11:20</td><td></td><td>2052 (Wet ice &lt; 6 C) (1)</td><td>ICP-AES(35)</td><td></td><td>Soil/</td><td>MBHJ40</td><td>P143-SB-08-Z30- 36</td></th>	<td></td> <td>11/18/2024 11:20</td> <td></td> <td>2052 (Wet ice &lt; 6 C) (1)</td> <td>ICP-AES(35)</td> <td></td> <td>Soil/</td> <td>MBHJ40</td> <td>P143-SB-08-Z30- 36</td>		11/18/2024 11:20		2052 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJ40	P143-SB-08-Z30- 36
CHAIN OF CUSTOUT RECORD         Case #: 51879         Cooler #: 5         Soil/       Plat3-SB-08         Soil/       Plat3-SB-08         Soil/       Plat3-SB-08         Soil/       Plat3-SB-08         Soil/       Plat3-SB-08         Soil/        C) (1) <th cols<="" td=""><td></td><td>11/18/2024 11:20</td><td>_</td><td>2051 (Wet ice &lt; 6 C) (1)</td><td>ICP-AES(35)</td><td></td><td>Soil/</td><td>MBHJ39</td><td>P143-SB-08-Z24- 30</td></th>	<td></td> <td>11/18/2024 11:20</td> <td>_</td> <td>2051 (Wet ice &lt; 6 C) (1)</td> <td>ICP-AES(35)</td> <td></td> <td>Soil/</td> <td>MBHJ39</td> <td>P143-SB-08-Z24- 30</td>		11/18/2024 11:20	_	2051 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJ39	P143-SB-08-Z24- 30
CHAIN OF CUSTOUY RECORDCase #: 51879 Cooler #: 5Cooler #: 5 <td></td> <td>11/18/2024 11:20</td> <td></td> <td>2050 (Wet ice &lt; 6 C) (1)</td> <td>ICP-AES(35)</td> <td></td> <td>Soil/</td> <td>MBHJ38</td> <td>P143-SB-08-Z18- 24</td>		11/18/2024 11:20		2050 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJ38	P143-SB-08-Z18- 24	
CHAIN OF CUSTOUP RECORDCase #: 51879 Cooler #: 5Cooler #: 5 <td></td> <td>11/18/2024 11:20</td> <td></td> <td>2119 (Wet ice &lt; 6 C) (1)</td> <td>ICP-AES(35)</td> <td></td> <td>Soil/</td> <td>MBHJ37</td> <td>P143-SB-08-Z12- 18</td>		11/18/2024 11:20		2119 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJ37	P143-SB-08-Z12- 18	
CHAIN OF CUSTOPY RECORD         Case #: 51879         Cooler #: 5         Cooler #: 5         Tag/Preservative/Bottles       Location         ple No.       Matrix/Sampler       Coll.       Analysis/Turnaround       Tag/Preservative/Bottles       Location         BHD2       Soil/       Method       ICP-AES(35)       5459 (Wet ice < 6 C) (1)		11/18/2024 11:20		2118 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJ36	P143-SB-08-Z06- 12	
CHAIN OF CUSTOPY RECORD         Case #: 51879         Cooler #: 5         Location         ple No.       Method       ICP-AES(35)       5459 (Wet ice < 6 C) (1)       P143-SB-30         BHD2       Soil/       ICP-AES(35)       2116 (Wet ice < 6 C) (1)		11/18/2024 11:20		2117 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJ35	P143-SB-08-Z02- 06	
COPY)       CHAIN OF CUSTODY RECORD         Case #: 51879       Case #: 51879         Cooler #: 5       Cooler #: 5         CLP       Matrix/Sampler       Coll.       Analysis/Turnaround       Tag/Preservative/Bottles       Location         ple No.       Method       (Days)       Tag/Preservative/Bottles       Location         BHD2       Soil/       ICP-AES(35)       5459 (Wet ice < 6 C) (1)		11/18/2024 11:20		2116 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJ34	P143-SB-08-Z00- 02	
COPY) COPY) CHAIN OF CUSTODY RECORD Case #: 51879 Cooler #: 5 Cooler #: 5 Cooler #: 5 Cooler #: 5 Cooler #: 5 Cooler #: 5 Cooler #: 5		11/18/2024 13:10		5459 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHD2	P143-SB-30-Z02- 06	
COPY) CHAIN OF CUSTODY RECORD Case #: 51879 Cooler #: 5	For Lab Use Only			Tag/Preservative/Bottles	Analysis/Turnaround (Days)	Coll. Method	Matrix/Sampler	CLP Sample No.	Sample Identifier	
CHAIN OF CUSTODY RECORD Case #: 51879	908-789-8900	Lab Phone:			Cooler #			4 9441	AirbiliNo: 7701 592	
CHAIN OF CUSTODY RECORD	Immad Ahmed	Lab Contact: Moha		1879	Case #: 51			2/2024 Ex	DateSnipped: 11/2 CarrierName: FedE	
	SAUDU-UU10	NO: 2-112224-1		DY RECORD	CHAIN OF CUSTO			(LAB COPY)	USEPA CLP COC	

Page 1 of 3

68HERH20D0011

SDG # MBHD2

t) has	Temp blant han	00:01	45/22/11 P	MA Mind				
IPONKH	1.3' IP	11/23/24	len	11/22/24 15:15	WSP		Will	1 cooler
Upon Receipt	Sample Condition Upon Receipt	Date/Time	Received by (Signature and Organization)	Date/Time Receive	rganization)	Relinquished by (Signature and Organization)	Relinguished by	Items/Reason
				09 Metals	ASD SOP C-10	e - SFAM01.1/LS/	<b>VES=CLP</b> Routin	Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals
ustody #	Samples Transferred From Chain of Custody #	amples Transferre		Samples MBHJC40, MBHJC38, MBHJC38, MBHJC37, MBHJC36, MBHJC35, MBHJC34, MBHJD1 MBHJD2, MBHJD3, MBHJD4, MBHJD5, MBHJD7, MBHJF5, MBHJF3, MBHJF2, MBHJF1, MBHJF0 and MBHJE9 have limited sample mass.	7, MBHJC36, N 3HJF2, MBHJF	JF5, MBHJF3, ME	, MBHJC39, MB	Samples MBHJC40 MBHJD4, MBHJD5,
	Complete? N	Shipment for Case Complete? N		Openial Instructions: Cample 1	Tan 0114 -	143_SB_07_724_30		Complete) to be use
F	11/18/2024 11:15	P143-SB-07	2114 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJF4	P143-SB-07-Z24- 30
	11/18/2024 11:15	P143-SB-07	2113 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJF3	P143-SB-07-Z18- 24
	11/18/2024 11:15		2112 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJF2	P143-SB-07-Z12- 18
	11/18/2024 11:15		2111 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJF1	P143-SB-07-Z06- 12
	11/18/2024 11:15	P143-SB-07	2110 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJFO	P143-SB-07-Z02- 06
	11/18/2024 11:15		2049 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJE9	P143-SB-07-Z00- 02
	11/18/2024 13:10		5464 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJD7	P143-SB-30-Z30- 36
	11/18/2024 13:10		5463 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJD6	P143-SB-30-Z24- 30
	11/18/2024 13:10		5462 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJD5	P143-SB-30-Z18- 24
	11/18/2024 13:10	P143-SB-30	5461 (Wet ice < 6 C) (1)	ICP-AES(35)		Soil/	MBHJD4	P143-SB-30-Z12- 18
For Lab Use Only	Collection Date/Time	Location	Tag/Preservative/Bottles	Analysis/Turnaround (Days)	Coll. Method	Matrix/Sampler	CLP Sample No.	Sample Identifier
ntact: Mohammad Ahmed Lab Phone: 908-789-8900	Lab Contact: Mohammad Ahmed Lab Phone: 908-789-8900		5 5	Case #: 51879 Cooler #: 5			Ex 4 9441	CarrierName: FedEx AirbillNo: 7701 5924 9441
ical Group LLC	Lab: Alliance Technical Group LLC						2/2024	DateShipped: 11/22/2024

Page 2 of 3

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

SDG # MBHD2

68HERH20D0011

No: 2-112224-134050-0018

# FORM DC-1

# SAMPLE LOG-IN SHEET

Lab Name : Alli	ance Technical Group	, LLC	$\cap$			Page_1_of_	1	
Received By (Pr	int Name) genave	00	Keña			Log-in Date	11/23/2	2024
Received By (Si			Teras			-		
Case Number	51879	SDG	No. MBHD	02		MA No. N/	'A	
Remarks:						Correspondir	חם	
1. Custody Seal (s)	Present, Intact			Aqueous		•		Remarks: Condition
2. Custody Seal Nos.	<u>n/a</u>		EPA Sample #	Water Sample pH	Sam Tag	•	Assigned	of Sample Shipment, etc.
3. Traffic Reports/Chain Of	Present	1	MBHD2	N/A	5459		P4982-01	Intact
Custody Records		2	МВНЈ34	N/A	2116		P4982-02	Intact
4. Airbill	-	3	МВНЈ35	N/A	2117		P4982-03	Intact
- Albin	Present	4	МВНЈЗ6	N/A	2118		P4982-04	Intact
5. Airbill No. and	770159249441	5	МВНЈ37	N/A	2119		P4982-05	Intact
Shipping Container ID No.	1	6	МВНЈ38	N/A	2050		P4982-06	Intact
		7	МВНЈЗ9	N/A	2051		P4982-07	Intaot
<ol> <li>Shipping Container Temperature</li> </ol>	Present	8	МВНЈ40	N/A	2052		P4982-08	Intact
Indicator Bottle		9	MBHJD1	N/A	5458		P4982-09	Intact
7. Shipping Container	1.3 Degree C	10	МВНЈДЗ	N/A	5460		P4982-10	Intact
Temperature		11	MBHJD4	N/A	5461		P4982-11	Intact
8. Sample	Intact	12	MBHJD5	N/A	5462		P4982-12	Intact
Condition		13	МВНЈД6	N/A	5463		P4982-13	Intact
		14	MBHJD7	N/A	5464		P4982-14	Intact
9. Sample Tags Sample Tag	Absent	15	МВНЈЕ9	N/A	2049		P4982-15	Intact
Numbers	Listed on Traffic	16	МВНЈF0	N/A	2110		P4982-16	Intact
	Report	17	MBHJF1	N/A	2111		P4982-17	Intact
<ol> <li>Does information on Traffic</li> </ol>	Yes	18	MBHJF2	N/A	2112		P4982-18	Intact
Reports/Chain of Custody Records		19	MBHJF3	N/A	2113		P4982-19	Intact
and Sample Tags		20	MBHJF4	N/A	2114		P4982-20	Intact
agree ?		21	MBHJF4D	N/A	2114		P4982-21	Intact
<ol> <li>Date Received at Lab</li> </ol>	11/23/2024	22	MBHJF4S	N/A	2114		P4982-22	Intact
12.Time Received		23	N/A	N/A	N/A		N/A	N/A
12. This Received	10:00	1						

\* Contact SMO and attach record of resolution

**Reviewed By** Logbook No. N/A Date 1125/24 Logbook Page No. N/A

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

LAB NAME	Alliance Techni	.cal Group, LLC	
LAB CODE	ACE		
CONTRACT NO.	68HERH20D0011		
CASE NO.	51879	SDG NO.	MBHD2
MA NO.		SOW NO.	SFAM01.1
MA NO.		500 110.	

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

	PAGE	NOs:	CH	IECK
	FROM	ТО	LAB	REGION
1. SDG Cover Page	1	1	1	
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	4	✓	
4. CSF Inventory Sheet (DC-2)	5	7	✓	
5. SDG Narrative	8	10	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	11	13	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	14	33	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	34	1327	✓	
Other Data				
10. Standard and Reagent Preparation Logs	1328	1484	1	
11. Original Preparation and Cleanup forms or copies of Preparation and	1485	1486	✓	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or	1487	1547		<u> </u>
Instrument Logbooks 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	NA	NA		
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
19. Standard and Reagent Preparation Logs	NA	NA	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and	NA	NA	✓	
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

23. Extraction Logs for TCLF and SPLP       TO       LAB       REGION         24. Raw GPC Data       NA       NA       NA       NA       NA         25. Raw Florisil Data       NA       NA       NA       V		PAGE N	10s:	CH	IECK
24. Raw GPC Data       NA       NA       YA         25. Raw Florisil Data       NA       NA       YA         26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable       NA       NA       YA         27. Instrument raw data by instrument in analysis order       NA       NA       YA       YA         28. Standard and Reagent Preparation logs       NA       NA       Y       YA         29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA       Y         30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA       Y         31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA       Y         32. Extraction Logs for TCLP and SPLE       NA       NA       Y         33. Raw GPC Data       NA       NA       Y         34. Raw Florisil Data       NA       NA       Y         35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable       NA       NA         35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable       NA       Y         36. Instrument raw data by instrument in analysi		FROM	TO	LAB	REGION
25. Raw Florisil Data       NA       NA       NA         Analysis Forms and Data (Mercury)         26. Sample analysis, laboratory QC as applicable       NA       NA       ✓         27. Instrument raw data by instrument in analysis order       NA       NA       ✓         27. Instrument raw data by instrument in analysis order       NA       NA       ✓         28. Standard and Reagent Preparation Logs       NA       NA       ✓         29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA       ✓         30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA       ✓         31. Performance Evaluation (FE)/Proficiency Testing (FT) Sample Instructions       NA       NA       ✓         32. Extraction Logs for TCLP and SPLP       NA       NA       ✓         33. Raw GPC Data       NA       NA       ✓         34. Raw Florisil Data       NA       ✓       ✓         35. Sample Analysis, Laboratory QC as applicable       NA       NA       ✓         36. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       ✓       ✓       ✓         37. Standard and Reagent Preparation Logs       NA       ✓       ✓       ✓	23. Extraction Logs for TCLP and SPLP	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       NA       NA       ✓         27. Instrument raw data by instrument in analysis order       NA       NA       ✓         Other Data       28. Standard and Reagent Preparation Logs       NA       NA       ✓         29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA       ✓         30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA       ✓         31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA       ✓         32. Extraction Logs for TCLP and SPLP       NA       NA       ✓       ✓         33. Raw GPC Data       NA       NA       ✓       ✓         34. Raw Florisil Data       NA       NA       ✓       ✓         35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-TN) for each sample or sample analysis, laboratory QC as applicable       NA       NA       ✓         36. Instrument raw data by instrument in analysis order       NA       NA       ✓       ✓         36. Joriginal Preparation Logs       NA       NA       ✓       ✓         37. Standard and Reagent Preparat	24. Raw GPC Data	NA	NA	_ ✓	
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable       NA	25. Raw Florisil Data	NA	NA	✓	
or sample analysis, laboratory QC as applicable       NA       NA       NA       NA       NA       V         27. Instrument raw data by instrument in analysis order       NA       NA       NA       V         28. Standard and Reagent Preparation Logs       NA       NA       V       V         29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA       V         30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA       V         31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA       V         32. Extraction Logs for TCLP and SPLP       NA       NA       V       NA       NA       V         33. Raw GPC Data       NA       NA       V       NA       NA       V         34. Raw Florisil Data       NA       NA       V       NA       NA       V         35. Sample Analysis Data Forms (IA-OR, IB-OR, and I-IN) for each sample or sample analysis, laboratory QC as applicable       NA       NA       V         36. Instrument raw data by instrument in analysis order       NA       NA       V       NA       V         37. Standard and Reagent Preparation Logs       NA       NA       V       NA	Analysis Forms and Data (Mercury)				
27. Instrument raw data by instrument in analysis order       NA       NA       NA       ✓         Other Data       28. Standard and Reagent Preparation Logs       NA       NA       ✓         29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA       ✓         29. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA       ✓         30. Original Analysis or Instrument Run forms or copies of Analysis or Instructions       NA       NA       ✓         31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA       ✓         32. Extraction Logs for TCLP and SPLF       NA       NA       ✓       ✓         33. Raw GPC Data       NA       NA       ✓       ✓         34. Raw Florisil Data       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       NA       NA       ✓         36. Instrument raw data by instrument in analysis order       NA       NA       ✓         37. Standard and Reagent Preparation Logs       NA       NA       ✓       ✓ <tr< td=""><td></td><td>NA</td><td>NA</td><td>✓</td><td></td></tr<>		NA	NA	✓	
28. Standard and Reagent Preparation Logs       NA       NA       NA         29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA       NA         30. Original Analysis or Instrument Run forms or copies of Analysis or Instructions       NA       NA       NA       NA         31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA       NA       NA       NA         32. Extraction Logs for TCLP and SPLP       NA       NA       NA       NA       NA       NA         33. Raw GPC Data       NA       NA       NA       NA       NA       NA       NA         34. Raw Florisil Data       NA       NA <td>· · · · · ·</td> <td>NA</td> <td>NA</td> <td>✓</td> <td>·</td>	· · · · · ·	NA	NA	✓	·
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA<	Other Data				
Cleanup Logbooks       NA       NA       NA         30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA       NA         31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA       NA       NA         32. Extraction Logs for TCLP and SPLP       NA       NA       NA       NA       NA         33. Raw GPC Data       NA       NA       NA       NA       NA       NA         34. Raw Florisil Data       NA       NA       NA       NA       NA       NA         Analysis Forms and Data (Cyanide)       Sample Analysis, laboratory QC as applicable       NA       NA       NA       NA         36. Instrument raw data by instrument in analysis order       NA       NA       NA       NA       NA         37. Standard and Reagent Preparation Logs       NA       NA       NA       NA       NA         38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA       NA       NA         39. Original Analysis or Instrument Run forms or copies of Analysis or Instructions       NA       NA       V       NA       NA         31. Extraction Logs for TCLP and SPLP       NA       NA       V       NA	28. Standard and Reagent Preparation Logs	NA	NA	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or       NA       NA<		NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample       NA       NA       NA         32. Extraction Logs for TCLP and SPLP       NA       NA       NA       NA         33. Raw GPC Data       NA       NA       NA       NA       NA         34. Raw Florisil Data       NA       NA       NA       NA       NA         Analysis Forms and Data (Cyanide)       Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable       NA       NA       NA         36. Instrument raw data by instrument in analysis order       NA       NA       NA          Other Data       33. Original Analysis or Instrument Run forms or copies of Preparation and Cleanup Logbooks       NA       NA          39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA          40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA          41. Extraction Logs for TCLP and SPLP       NA       NA           42. Raw GPC Data       NA       NA	30. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA		
32. Extraction Logs for TCLP and SPLP       NA       NA       NA         33. Raw GPC Data       NA       NA       NA       NA         34. Raw Florisil Data       NA       NA       NA       NA         Analysis Forms and Data (Cyanide)       NA       NA       NA       NA         35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable       NA       NA       NA         36. Instrument raw data by instrument in analysis order       NA       NA       NA       NA         Other Data       37. Standard and Reagent Preparation Logs       NA       NA       NA       ✓         37. Standard and Reagent Preparation Logs       NA       NA       V	31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	·
34. Raw Florisil Data       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       NA       NA       NA       ✓         36. Instrument raw data by instrument in analysis order       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         Other Data         37. Standard and Reagent Preparation Logs       NA         38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA         39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA         40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA         41. Extraction Logs for TCLP and SPLP       NA         42. Raw GPC Data       NA	33. Raw GPC Data	NA	NA	✓	
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable       NA       NA       ✓         36. Instrument raw data by instrument in analysis order       NA       NA       ✓         Other Data       37. Standard and Reagent Preparation Logs       NA       NA       ✓         38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA       ✓         39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA       ✓         40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA       ✓         41. Extraction Logs for TCLP and SPLP       NA       NA       ✓         42. Raw GPC Data       NA       NA       ✓	34. Raw Florisil Data	NA	NA	✓	
or sample analysis, laboratory QC as applicable 36. Instrument raw data by instrument in analysis order NA NA V Other Data 37. Standard and Reagent Preparation Logs NA NA V 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 NA NA V	Analysis Forms and Data (Cyanide)				
36. Instrument raw data by instrument in analysis order       NA       NA       ✓         Other Data       37. Standard and Reagent Preparation Logs       NA       NA       ✓         38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA       ✓         39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA       ✓         40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA       ✓         41. Extraction Logs for TCLP and SPLP       NA       NA       ✓         42. Raw GPC Data       NA       NA       ✓		NA	NA	✓	
37. Standard and Reagent Preparation Logs       NA       NA       ✓         38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA       ✓         39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA       ✓         40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA       ✓         41. Extraction Logs for TCLP and SPLP       NA       NA       ✓         42. Raw GPC Data       NA       NA       ✓		NA	NA	✓	
37. Standard and Reagent Preparation Logs       NA       NA       ✓         38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks       NA       NA       ✓         39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA       ✓         40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA       ✓         41. Extraction Logs for TCLP and SPLP       NA       NA       ✓         42. Raw GPC Data       NA       NA       ✓	Other Data				
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		NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks       NA       NA       ✓         40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions       NA       NA       ✓         41. Extraction Logs for TCLP and SPLP       NA       NA       ✓         42. Raw GPC Data       NA       NA       ✓		NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample       NA       NA       ✓         1. Extraction Logs for TCLP and SPLP       NA       NA       ✓         42. Raw GPC Data       NA       NA       ✓	39. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA		
41. Extraction Logs for TCLP and SPLP       NA       NA       ✓         42. Raw GPC Data       NA       NA       ✓	40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
		NA	NA		
43. Raw Florisil Data NA NA 🖌	42. Raw GPC Data	NA	NA	✓	
	43. Raw Florisil Data	NA	NA	✓	

			PAGE			IECK
			FROM	TO	LAB	REGION
<b>Additional</b> 44. EPA Shipp	ing/Receiving Documents					
Airbill (	No. of Shipments)		1548	1548	✓	
Sample Ta	gs		NA	NA	~	
Sample Lo	g-In Sheet (Lab)		1549	1550	~	
45. Misc. Shi	pping/Receiving Records(list all indivi-	dual records)	NA	NA	_	·
	Lab Sample Transfer Records and Tracking or list)	g Sheets	1551	1552		
	ords and related Communication Logs e or list)		NA	NA		
48. Comments:						
Completed by (CLP Lab)		Nimisha Pandya, Docume	nt Control	l Officer		
Audited by: (EPA)	(Signature)	(Print Name & Title)			(Da	te)
	(Signature)	(Print Name & Title)			(Da	te)



# 284 Sheffield Street Mountainside, NJ 07092

# **SDG NARRATIVE**

USEPA SDG # MBHD2 CASE # 51879 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID # P4982

# A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 11/23/2024.

## **B.** Parameters

Test requested for Metals CLP FULL = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

## C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 1.3°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.

## 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.

## **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-AES Soil Sample:**

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

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

Where,

C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

### **Example Calculation For Sample MBHD2 For Antimony:**

If C = 0.0178841 ppm Vf = 100 ml W = 1.11 g S = 0.869 (86.9/100) DF = 1 Concentration (mg/kg) = 0.0178841 x  $\frac{100}{1.11 \text{ x } 0.869}$  x 1 = 1.85406 mg/kg = 1.9 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 Antimony, Selenium, Silver. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Aluminum, Barium, Calcium, Chromium, Cobalt, Iron, Lead, Magnesium, Manganese, Zinc.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.



# 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



PERCENT SOLID

Supervisor: Iwona Analyst: jignesh Date: 11/26/2024

OVENTEMP IN Celsius (°C): 107 Time IN: 15:50 In Date: 11/25/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1 OVENTEMP OUT Celsius (°C): 103 Time OUT: 08:15 Out Date: 11/26/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

**QC:**LB133611

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
P4982-01	MBHD2	1	1.15	8.75	9.9	8.75	86.9	
P4982-02	MBHJ34	2	1.15	8.39	9.54	8.65	89.4	
P4982-03	МВНЈ35	3	1.15	8.79	9.94	9.21	91.7	
P4982-04	МВНЈЗ6	4	1.15	8.75	9.9	9.18	91.8	
P4982-05	МВНЈ37	5	1.12	8.82	9.94	9.32	93.0	
P4982-06	МВНЈ38	6	1.15	8.83	9.98	9.07	89.7	
P4982-07	МВНЈЗ9	7	1.13	8.84	9.97	8.82	87.0	
P4982-08	MBHJ40	8	1.15	8.56	9.71	8.74	88.7	
P4982-09	MBHJD1	9	1.16	8.51	9.67	7.83	78.4	
P4982-10	MBHJD3	10	1.13	8.80	9.93	8.99	89.3	
P4982-11	MBHJD4	11	1.15	8.50	9.65	8.73	89.2	
P4982-12	MBHJD5	12	1.17	8.33	9.5	8.69	90.3	
P4982-13	MBHJD6	13	1.13	8.70	9.83	8.66	86.6	
P4982-14	MBHJD7	14	1.15	8.79	9.94	8.81	87.1	
P4982-15	MBHJE9	15	1.14	4.51	5.65	5.24	90.9	
P4982-16	MBHJF0	16	1.15	8.37	9.52	8.53	88.2	
P4982-17	MBHJF1	17	1.13	8.75	9.88	8.63	85.7	
P4982-18	MBHJF2	18	1.15	8.77	9.92	8.78	87.0	
P4982-19	MBHJF3	19	1.14	8.83	9.97	8.82	87.0	
P4982-20	MBHJF4	20	1.17	8.50	9.67	8.76	89.3	
P4982-21	MBHJF4D	21	1.17	8.50	9.67	8.76	89.3	
P4982-22	MBHJF4S	22	1.17	8.50	9.67	8.76	89.3	

$\text{Solid} = \frac{(C-A) \times 100}{(D-A)}$	
(B-A)	

			WORKLIST(Hardcopy Internal Chain)	copy Internal Ch	ain)	E	(1)661 4	
WorkList Name :	%1-P4982	WorkList ID :	D: 185765	Department :	Wet-Chemistry		<b>Date :</b> 11-25-20	11-25-2024 13:53:20
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4982-01	MBHD2	Solid	Percent Solide					
P4982-02	MBHJ34			Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-03	MBH.J35			Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-04	MBH.136		Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-05	MRH 137	Solid	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-06	MBH.138	Solid	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-07	MBHJ39		Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-08	MBHJ40		rercent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-09	MBHJD1	Solid Solid	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-10	MBHJD3			Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-11	MBH.ID4		Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-12	MRH ID6	DIIOS	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-13		Solid	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-14		Solid	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-15	MBHJE9	Solid	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-16	MBHJEO	Diloc	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-17	MBH.IF1		Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-18			Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-19		Solid	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-20		2010	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
P4982-21		Solid	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
	1 ( 1 )	Solid	Percent Solids	Cool 4 deg C	USEP01	C33	11/18/2024	Chemtech -SO
Raw Sample Received hv.		T			Date/Time	11.2524	16	00-19
Raw Sample Relinquished by:	N N	1-			Raw Sample Received by:	Received by:	nt	[us]
	and to do	4	Page 1 of 2	2	Raw Sample	Raw Sample Relinquished by:	Sel ,	uel (

			WORKLIST(Hardcopy Internal Chain)	dcopy Internal Ch	ain)	119661	
WorkList Name : %1-P4982	%1-P4982	WorkList ID	WorkList ID: 185765	Department :	Department : Wet-Chemistry	Date: 11-5	Date: 11-25-2024 13:53·20
Sample	Customer Sample	Matrix Test	Test	Preservative	Customer	Raw Sample Storage Collect Location	Collect Date Method
P4982-22	MBH.IF4S						
		DIIOS	volid Percent Solids	Cool 4 deg C	USEP01	C33 11/18/2	11/18/2024 Chamtach So

NO UN F Date/Time 21.25.24 152.10 Raw Sample Relinquished by: Raw Sample Received by:

to avoit 16:00 [WS] me Raw Sample Relinquished by: Date/Time 11.25.24 Raw Sample Received by:

Page 2 of 2