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THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

VOLUME I: FIELD OPERATIONS (FO)
VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
VOLUME IV: SURFACE WATER (SW)
VOLUME V: ECOLOGY (EE)
VOLUME VI: AIR (AP)

TABLE OF CONTENTS FOR VOLUME III: GEOTECHNICAL

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JUNE 11, 1991

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ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 5-21000-OPS-GT.1, Rev. 2

Title	Date	DCN Number
Logging Alluvial and Bedrock Material	1-15-93 egh ~~12-23-92 MCS 12892~~	5-21000-OPS-93.01 egh

Expires 1-15-94 egh Procedure Revision Required [X] Yes [ ] No

Scope Limitation Present Landfill (IHSS 114) of OU-7 only

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	31 of 34	6.2.3 Logging	Add to the end of the paragraph: "For the fill and waste portions of boreholes drilled into the Present Landfill, instead of the procedures outlined in this SOP, a detailed visual examination of the core or cuttings will be conducted. Core and cuttings taken from below the waste and fill will be described as per this SOP."

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)

The procedures for core logging in this SOP are not ~~solely~~ ACP applicable to logging trash and debris.

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Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
[signature]	QAPM	X	1/12/93	[signature]	User	X	12/23/92
M.L. Bronsard	EOM	X	12/23/92	Donna Smith	EQM	✓	1/5/93
				[signature]	EQS	✓	1/8/93

Approval of Responsible Manager	Date	Is Posting Reqd?	If Yes, By What Date?	Date Posted
[signature] MGR 1/20	12/23/92	[X] Yes [ ] No	upon receipt	

DCN Form-001

JAN 15 1993

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ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 5-21000-OPS-GT.8, Rev.2

Title Surface Soil Sampling	Date 1/15/93 ~~10/20/92~~ MCB	DCN Number 5-21000-OPS-GT.8-92.R2-93.02

Expires ~~10/20/92~~ ~~93~~ MCB 1-15-94 cdl Procedure Revision Required ☒ Yes ☐ No

Scope Limitation: None

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for additional space)
1	4	5.0	Change "3" to "4" in the first line and revise end of first sentence to read: ".....(RF) method, (3) the "grab method", and (4) surficial profiling method."
2	5	5.0	Add to the end of second bullet: "Place surficial profiling samples (method 4) in 500 ml ~~polyurethane~~ GLASS OR PLASTIC bottles."
3	5	5.0	Add after 3rd sentence of the last paragraph: "For surficial profiling samples, the sampler will collect representative samples, including ~~plants~~ organic material and coarse material."
4	15	5.2.5	Change numbering of Section 5.2.5 to Section 5.2.6.
5	15	new sect. 5.2.5	Add new text as follows: **5.2.5 Surficial Profiling** The surficial profiling method is used to obtain discrete soil samples from depths up to six inches. Each discrete sample represents soil from an interval of two inches depth, i.e., 0 ft (surface) to 2", 2-4", and 4-6". There are three procedures for obtaining these samples: (1) collection from the surface downward, (2) collection from the sidewall of a small excavation, and (3) collection from coring. Use any of the following procedures, depending upon sampling conditions:

Justification (Reason for change - Provide numbers to reference corresponding items above.)

Items 1-5: to include a method not previously addressed in OP-GT.8.

Concurrence	Organization	Req.	Date	Concurrence	Organization	Req.	Date
[signature]	QAPM	X	1/11/93	[signature]	User		10/23/92
[signature]	EOM	X	12/23/92				
S. LUKER MCB	EQS		1-12-93				

Approval of Responsible Manager	Date	Is Posting required?	If Yes, by what date?	Date posted
[signature]	11/2/92	☒ Yes ☐ No	upon receipt	

DOCUMENT CHANGE NOTICE CONTINUATION

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Procedure no. 5-21000-OPS-GT.8, Rev. 2	Title Surface Soil Sampling

Scope Limitation: None

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for additional space)
5 (cont'd)	15	new sect. 5.2.5	5.2.5.1 sampling from surface downward: NOTE: DECONTAMINATE SCOOP BETWEEN STEPS. 1. Use a stainless scoop/trowel to collect enough soil from top 2" of soil to fill a 500 ml ~~polyurethane~~ sample container; include organic material and coarse sample material. Collect sample uniformly in thickness. 2. Collect next sample from depth interval 2-4" below first sample (0-2"), using method in Step #1 above. 3. Collect last sample from depth interval 4-6" below second sample (2-4"), using method in Step #1 above. 5.2.5.2 sidewall sampling (use when large soil components prevent excavation from surface downward): NOTE: DECONTAMINATE SCOOP BETWEEN STEPS. 1. Dig a small excavation (maximum depth = 12 in.). Stockpile excavated material near excavation. 2. Scrape upper few inches (0-3") of one side of pit with stainless steel scoop/trowel to expose fresh surface and prevent cross-contamination. 3. Collect top 2" (0-2") of soil with stainless steel scoop/trowel from the sidewall to fill a 500 ml ~~polyurethane~~ sample container; include organic material and coarse sample material. Collect sample uniformly in thickness. 4. Scrape next lower few inches (2-5") of side of pit with stainless steel scoop/trowel, below first sample (0-2"). 5. Collect next sidewall sample from depth interval 2-4" below first sample (0-2"), following Step #3 above. 6. Scrape last lower few inches (4-7") of side of pit with stainless steel scoop/trowel, below second sample (2-4").

Justification (Reason for change - Provide numbers to reference corresponding items above.)

Procedure no. 5-21000-OPS-GT.8, Rev. 2	Title Surficial Soil Sampling

Scope Limitation: None

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for additional space)
5 (cont'd.)	15	new sect. 5.2.5	7. Collect last sidewall sample from depth interval 4-6" below second sample (2-4"), using method in Step #3 above. 8. Backfill excavated material on same day as excavation and sampling. 5.2.5.3 coring: NOTE: DECONTAMINATE HAMMER BETWEEN STEPS. 1. Use a hand-powered, stainless steel "cookie cutter" style corer to collect top 2" of soil to fill a 500 ml ~~polyurethane~~ sample container; include organic material and coarse sample material. Collect sample uniformly from the surface to 2" depth. 2. Collect next core sample from depth interval 2-4" below first sample (0-2"), using method in Step #1 above. 3. Collect last core sample from depth interval 4-6" immediately below second sample (2-4"), using method in Step #1 above.

Justification (Reason for change - Provide numbers to reference corresponding items above.)

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ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 5-21000-OPS-GT.21, Rev. 1

Title	Date	DCN Number
Cone Penetrometer Testing	~~1-11-93~~ 1-15-93 EMS	5-21000- 93.01

Expires ~~1-11-99~~ 1-15-94 Procedure Revision Required ☐ Yes ☒ No

Scope Limitation: The scope is limited to landfill investigations within OUs 5 and 7

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	~~10~~ 10 of 13	9	Add: As the rods are withdrawn, the hole will be sealed with bentonite pellets. The bentonite pellets will be pumped into the hole through the CPT rods.

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)

1. CPT rods can be deconned in the field if pellets are used, minimizing the potential for spread of contamination between CPT sites and the Decon Pad.
2. Bentonite pellets provide a better seal than grout, further minimizing the potential for cross contamination between strata.
3. Field operations will be more efficient.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
	QAPM	X	1/13/93	E Gnaedinger	User	X	1/11/93
M.C. Broussard	EQM	X	1-11-93		User		11-Jan-93
				MLB Donna Smith	EQM	X	1/11/93

Approval of Responsible Manager	Date	Is Posting Reqd?	If Yes, By What Date?	Date Posted
		☒ Yes ☐ No	upon receipt	

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