

**ROCKY FLATS PLANT
 EMD OPERATING
 PROCEDURES MANUAL**

**Manual No.: 5-21000-OPS-GT
 Procedure No.: Table of Contents, Rev 22
 Page: 1 of 2
 Effective Date: 07/16/92
 Organization: Environmental Management**

**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)

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GT.02	Drilling and Sampling Using Hollow Stem Auger Techniques	2	05/12/92
DCN 92.01	Addition to the Drum Characterization	2	06/24/92
DCN 92.02	Addition to the Drum Characterization	2	07/16/92
GT.03	Isolating Bedrock from Alluvium with Grouted Surface Casing	2	05/12/92
DCN 92.03	Alternate Method of Installing Surface Casing	2	06/04/92
GT.04	Rotary Drilling and Rock Coring	2	05/12/92
GT.05	Plugging and Abandonment of Boreholes	2	05/12/92
GT.06	Monitoring Wells and Piezometer Installation	2	05/12/92
DCN 92.05	Schematic Diagram Land Fill Methane Wells	2	06/04/92
GT.07	Logging and Sampling of Test Pits and Trenches	2	05/12/92

REVIEWED FOR CLASSIFICATION/UCNI

By J. L. [Signature]

Date July 16, 1992

ADMIN RECORD

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<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
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GT.15	Geophysical Borehole Logging	2	05/12/92
GT.17	Land Surveying	2	05/12/92
GT.18	Surface Geophysical Surveys	2	05/12/92
GT.19	Field Gas Chromatographs	2	05/12/92
GT.20	Procedures for Soil Interstitial Water Sampling and Sampler Installation	2	05/12/92
GT.21	Cone Penetrometer Testing	1	05/12/92
GT.24	Approval Process for Construction Activities on or Near Individual Hazardous Substance Sites (IHSSs)	0	05/12/92

This is a
CONTROLLED DOCUMENT ENVIRONMENTAL MANAGEMENT
 EG&G - ROCKY FLATS PLANT
 ENVIRONMENTAL MANAGEMENT **DOCUMENT CHANGE NOTICE (DCN)**

This is a RED Stamp

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

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Title Drilling and Sampling Using Hollow-Stem Auger Techniques	Date 7/16/92	DCN Number 5-21000-OPS-GT.02, R2 DCN 92.02
Expires <u>10/16/92</u> cm.	Procedure Revision Required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No cm.
Scope Limitation <u>Sitewide drilling operations</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	11 of 14	Add to step 5.3.4	Add to step 5.3.4 Drum Characterization: When obtaining geochemical samples from drummed mixtures of bedrock and water resulting from drilling operations strictly for the purpose of characterizing the drummed environmental materials, the following procedure will apply: Use a bailer to obtain a sample from the bottom, middle and upper portion of a drum. The samples will be composited in a stainless steel bowl. The materials from up to four drums from a given borehole will be composited in this manner. The samples will then be placed in the appropriate containers for analytical testing.

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

Environmental samples generated during rotary drilling operations are in constant contact with circulating fluids as they are generated, move up the borehole, and accumulate. Compositing these samples is representative of what is in the drums.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>M.C. Brown</i>	<i>RFP/7/16/92</i> GARLEOM	X	7/16/92	<i>A.L. Parra</i>	User	X	7/16/92
<i>Gregory A. ...</i>	RAPM	X	7/16/92				

Approval of Responsible Manager <i>[Signature]</i>	Date 7/16/92	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date?	Date Posted
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