

ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL

Manual No.: 5-21000-OPS-GT
Procedure No.: Table of Contents, Rev 6
Page: 1 of 3
Effective Date: 11/11/91
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)

This is a
CONTROLLED DOCUMENT
EG&G — ROCKY FLATS PLANT
ENVIRONMENTAL MANAGEMENT DEPARTMENT

TABLE OF CONTENTS
FOR VOLUME III: GEOTECHNICAL

This is a RED Stamp

<u>New Proc. No.</u>	<u>Old Proc. No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GT.01	3.1	Logging Alluvial and Bedrock Material	1	8/30/91
GT.02	3.2	Drilling and Sampling Using Hollow Stem Auger Techniques	1	8/30/91
DCN 91.01		Unconsolidated core samples need not be peeled before sampling	1	10/29/91
DCN 91.02		Correction of well location for low Alluvial thickness	1	11/06/91
GT.03	3.3	Isolating Bedrock From the Alluvium with Grouted Surface Casing	1	8/30/91
DCN 91.01		Change in criteria for cement grouting	1	10/02/91
DCN 91.02		Grout procedure clarification	1	10/28/91
GT.04	3.4	Rotary Drilling and Rock Coring	1	8/30/91
DCN 91.01		Core barrel decontamination	1	10/22/91
DCN 91.02		Clarification of measuring tape decontamination requirements	1	10/29/91

ADMIN RECORD

RECEIVED FOR DECONTAMINATION UNIT
By: [Signature]
Date: 11/11/91

A-SW-001091

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<u>New Proc. No.</u>	<u>Old Proc. No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GT.05	3.5	Plugging and Abandonment of Boreholes	1	8/30/91
DCN 91.01		Surface casing classification	1	10/22/91
GT.06	3.6	Monitoring Wells and Piezometer Installation	1	8/30/91
DCN 91.01		Industry Standard is 1 foot into Bedrock	1	10/15/91
DCN 91.02		For the Sitewide Program, Claystone Smearing does not seem to be a problem	1	10/15/91
DCN 91.03		Superseded by DCN 91.06	1	11/08/91
DCN 91.04		Low Alluvial thickness wells	1	11/06/91
DCN 91.05		Figure replacement (GT.6-1)	1	11/06/91
DCN 91.06		Change in filter pack guidance	1	11/08/91
GT.07	3.7	Logging and Sampling of Test Pits and Trenches	1	8/30/91
GT.08	3.8	Surface Soil Sampling	1	8/30/91
GT.09	3.9	Soil Gas Sampling and Field Analysis	1	8/30/91
GT.10	3.10	Borehole Clearing	1	8/30/91
GT.11	3.11	Plugging and Abandonment of Wells	1	8/30/91
GT.15	3.15	Geophysical Borehole Logging	1	8/30/91
DCN 91.01		No Hole will be left Unlogged at the end of the day	1	10/15/91
GT.17	3.17	Land Surveying	1	8/30/91
GT.18	3.18	Surface Geophysical Surveys	1	8/30/91

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<u>New Proc. No.</u>	<u>Old Proc. No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GT.19	3.19	Field Gas Chromatographs	1	8/30/91
GT.20	3.20	Procedures for Soil Interstitial Water Sampling and Sampler Installation	1	8/30/91

ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 5-21000-OPS-GT.6, Rev. 1

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Title Monitoring Wells and Piezometer Installation	Date 11-6-91	DCN Number 5-21000-OPS- 6-T.06 91.04
Expires <u>2-6-92</u>		Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Scope Limitation Site-wide Geologic Characterization <u>none</u>		This is a CONTROL DOCUMENT

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	12 of 17	paragraph 11	Add to the end of the paragraph: "When alluvial wells are installed in areas with minimal alluvial thicknesses and the bentonite seal is within 1.5 to 3 feet of the surface, no bentonite grout is needed and the protective steel casing can be immediately embedded in cement-bentonite grout."

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

Addition of bentonite grout into a well is redundant where the bentonite seal is within 1.5 to 3 feet of the surface. In these cases, the bentonite grout would remain in the hole for only 24 hours before it would be removed during installation of the protective casing.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	GAPM	X	11/6/91	<i>[Signature]</i>	User	X	11/6/91
<i>[Signature]</i>	EDM	X					

Approval of Responsible Manager <i>[Signature]</i>	Date 11-6-91	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date?	Date Posted
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