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**CONTROLLED DOCUMENT**  
EG&G - ROCKY FLATS PLANT  
ENVIRONMENTAL MANAGEMENT

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**ROCKY FLATS PLANT**  
**EMD RFI/RI WORK PLAN OU-5**  
**WOMAN CREEK PRIORITY**  
**DRAINAGE**

**Manual No.:** 21100-WP-OU 05.1  
**Procedure No.:** Table of Contents, Rev 3  
**Page:** 1 of 2  
**Effective Date:** 10/28/92  
**Organization:** Environmental Management

**TABLE OF CONTENTS**  
**VOLUME I**

<u>Section No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Date</u>
	Detailed Table of Contents		
ES	Executive Summary	1	02/24/92
1.0	Introduction	1	02/24/92
2.0	Preliminary Site Characterization	1	02/24/92
3.0	Applicable or Relevant and Appropriate Requirements	1	02/24/92
4.0	Data Needs and Data Quality Objectives	1	02/24/92
5.0	Phase I RCRA Facility Investigation/ Remedial Investigation Tasks	1	02/24/92
6.0	Schedule	1	02/24/92
7.0	Phase I Field Sampling Plan (FSP)	1	02/24/92
DCN 92.01	Improve Consistency with Lab Requirements	1	10/28/92
8.0	Baseline Health Risk Assessment Plan	1	02/24/92
9.0	Environmental Evaluation	1	02/24/92
10.0	Quality Assurance Addendum	1	02/24/92
DCN 92.01	Revised Organizational Chart	1	07/09/92
11.0	Standard Operating Procedures and Addenda	1	02/24/92
12.0	References	1	02/24/92

**DOCUMENT CLASSIFICATION REVIEW WAIVER**  
**PER R.B. HOFFMAN, CLASSIFICATION OFFICE**  
**JUNE 11, 1991**

**ADMIN RECORD**

A-OU05-000103

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**TABLE OF CONTENTS  
VOLUME II**

<b><u>Section No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Date</u></b>
APPA	Appendix A	0	08/22/91
	As Built Drawings for Pond C-2 C-2 Dam-General Plan D 27165-231	A	11/20/79
	C-2 Dam-Cutoff Trench Plan and Dam Profile D 27165-232	A	11/20/79
	C-2 Dam-Embankment & Spillway Details D 27165-235	A	11/20/79
	C-2 Dam-Outlet Works D 27165-236	A	11/12/80
	Outlet Works Inlet Structure & Pipe Details D 27165-241	A	11/12/80
	Outlet Works Outlet Structure D 27165-242	A	11/12/80
APPB	Appendix B In Situ Radiological Survey of the Old Landfill	0	08/22/91
APPC	Appendix C Groundwater Analytical Data	0	08/22/91
APPD	Appendix D Sediment Analytical Data	0	08/22/91
APPE	Appendix E Surface Water Analytical Data	0	08/22/91

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 EG&G - ROCKY FLATS PLANT ENVIRONMENTAL MANAGEMENT

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Procedure Number - 5-21000-OPS

*21102-WP-OU 05.1 R1*  
*skm*

Title <u>OU-5 WOMAW Creek</u> <u>Phase I RFI/RI Work Plan</u>	Date <u>10/21/92</u>	DCN Number <u>5-21000-OPS-9201</u> <u>21102-WP-OU 05.1 R1</u>
Expires <u>Upon Incorporation 10-21-93</u>	Procedure Revision Required	<input type="checkbox"/> Yes <input type="checkbox"/> No
Scope Limitation <u>OU-5</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1)	7-41		Replace Table 7-9
2)	7-42		Replace Table 7-10

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

1 & 2 Existing Tables are inconsistent with laboratory requirements and FO 13 Containerization, Preserving, Handling and Shipping of Soil and Water Samples.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	10/28/92	<i>[Signature]</i>	User	X	10/21/92
	<del>EOM</del>	X	<del>skm</del>				

Approval of Responsible Manager <i>[Signature]</i>	Date <u>10/22/92</u>	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date? <u>Upon Receipt</u>	Date Posted
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TABLE 7-9

**SAMPLE CONTAINERS, SAMPLE PRESERVATION,  
AND SAMPLE HOLDING TIMES FOR WATER SAMPLES**

Parameter	Container	Preservative	Holding Time
<b>Liquid - Low to Medium Concentration Samples</b>			
<b>Organic Compounds:</b>			
Purgeable Organics (VOCs)	2 x 40 ml VOA vials with teflon-lined septum lids	Cool, 4° C <sup>a</sup>	7 days
Extractable Organics (BNAs), Pesticides, and PCBs	1 x 4-l amber <sup>b</sup> glass bottle	Cool, 4° C <sup>a</sup>	7 days until extraction, 40 days after extraction
<b>Inorganic Compounds:</b>			
Metals (TAL)	1 x 1-l polyethylene bottle	Nitric acid to pH<2; Cool, 4° C	6 months <sup>c</sup>
Cyanide	1 x 1-l polyethylene bottle	Sodium hydroxide <sup>d</sup> to pH>12; Cool, 4° C	14 days
Anions (CO <sub>3</sub> , HCO <sub>3</sub> , Cl, SO <sub>4</sub> )	1 x 1-l polyethylene bottle	Cool, 4° C	14 days
Sulfide	1 x 1-l polyethylene bottle	1 ml-zinc acetate, sodium hydroxide to pH>9; Cool, 4° C	7 days
Nitrate	1 x 1-l polyethylene bottle	Sulfuric acid to pH<2; Cool, 4° C	28 days
Total Dissolved Solids (TDS)	1 x 1-l polyethylene bottle	Cool, 4° C	7 days
Radionuclides	3 x 4-l polyethylene bottles	Nitric acid to pH<2	6 months

<sup>a</sup> Add 0.008% sodium thiosulfate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) in the presence of residual chlorine.

<sup>b</sup> Container requirement is for any or all of the parameters given.

<sup>c</sup> Holding time for mercury is 28 days.

<sup>d</sup> Use ascorbic acid only if the sample contains residual chlorine. Test a drop of sample with potassium iodine-starch test paper; a blue color indicates need for treatment. Add ascorbic acid, a few crystals at a time, until a drop of sample produces no color on the indicator paper. Then add an additional 0.6g of ascorbic acid for each liter of sample volume.

TABLE 7-10

**SAMPLE CONTAINERS, SAMPLE PRESERVATION,  
AND SAMPLE HOLDING TIMES FOR SOIL SAMPLES**

Parameter	Container	Preservative	Holding Time
<u>Soil or Sediment Samples - Low to Medium Concentration</u>			
<b>Organic Compounds:</b>			
Purgeable Organics (VOCs)	1 x 4-oz wide-mouth glass jar with teflon liner or 120-ml capped core	Cool, 4° C	7 days
Extractable Organics (BNAs), Pesticides, and PCBs	1 x 8-oz wide-mouth glass jar with teflon liner	Cool, 4° C	7 days until extraction, 40 days after extraction
<b>Inorganic Compounds:</b>			
Metals (TAL)	1 x 8-oz wide-mouth glass jar	None	6 months <sup>1</sup>
Cyanide	1 x 8-oz wide-mouth glass jar	None	14 days
Sulfide	1 x 8-oz wide-mouth glass jar	None	7 days
Nitrate	1 x 8-oz wide-mouth glass jar	Cool, 4° C	ASAP <sup>2</sup>
Radionuclides	1 x 500-ml wide-mouth glass jar	None	None

<sup>1</sup> Holding time for mercury is 28 days.

<sup>2</sup> ASAP = As Soon As Possible