

This is a RED Stamp

**ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL**

**Manual No.: 5-21000-OPS-GW  
Procedure No.: Table of Contents, Rev 8  
Page: 1 of 2  
Effective Date: 10/28/92  
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)**

**TABLE OF CONTENTS  
FOR VOLUME II: GROUNDWATER**

<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
GW.01	Water Level Measurements in Wells and Piezometers	2	05/12/92
DCN 92.01	Improve Form	2	10/28/92
GW.02	Well Development	2	05/12/92
DCN 92.01	Practice Clarification	2	10/05/92
DCN 92.02	Update Forms to Include Form Number	2	10/22/92
GW.03	Pump-In Borehole Packer Testing	2	05/12/92
GW.04	Slug Testing	2	05/12/92
GW.05	Field Measurement of Groundwater Field Parameters	2	05/12/92
DCN 92.01	Eliminate Unsafe Work Practice	2	10/26/92
GW.06	Groundwater Sampling	2	05/12/92
DCN 92.01	Form Update	2	10/05/92
DCN 92.02	Update Forms to Include Form Number	2	10/22/92

DOCUMENT CLASSIFICATION REVIEW WAIVER  
PER R.B. HOFFMAN, CLASSIFICATION OFFICER

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<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
GW.08	Aquifer Pumping Tests	1	05/12/92
DCN 92.01	Clarify pump testing procedures	1	05/22/92
DCN 92.02	New pumping test data sheets	1	05/15/92

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-GW.1, Rev.2

Page 1 of 1

Title Water Level Measurements in Wells and Piezometers	Date 08/13/92	DCN Number 5-21000-OPS-GW.1 <i>9/20/92</i>
Expires <u>02/13/93</u>	Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Scope Limitation <u>None</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN Continuation Sheet for Additional Space)
1	A1		Replace old form of appendix A titled, 'Rocky Flats Plant Ground Water Levels Measurements/Calculations,' with the new form attached.

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

1. Improved form.

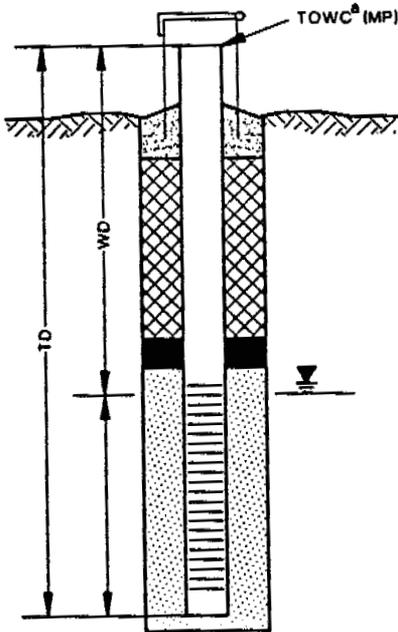
Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	10/20/92	<i>[Signature]</i>	User	X	10/20/92
<i>[Signature]</i>	EOM	X	10-20-92				

Approval of Responsible Manager <i>[Signature]</i>	Date 10-20-92	Is Posting Reqd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date?	Date Posted
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# ROCKY FLATS PLANT GROUND WATER LEVELS MEASUREMENTS/CALCULATIONS

ROCKY FLATS PROJECT  
PROJECT NO.: 304902. \_\_\_\_\_  
DATE \_\_\_\_\_  
PERSONNEL 1: \_\_\_\_\_  
2: \_\_\_\_\_

EQUIPMENT MANUFACTURER: \_\_\_\_\_  
MODEL: \_\_\_\_\_  
SERIAL NO.: \_\_\_\_\_  
CALIBRATION: DATE PASSED \_\_\_\_\_ DATE DUE \_\_\_\_\_  
QC REVIEW: NAME \_\_\_\_\_ DATE \_\_\_\_\_



WELL NO.	WD <sup>b</sup>	MTD <sup>c</sup>	COMMENTS		
MEASUREMENT 1					
MEASUREMENT 2					
MEASUREMENT 3					
AVERAGE WD		AVERAGE MTD		+ [ ] - [ ]	PROBE END <sup>d</sup> TD <sup>e</sup> CHK'D BY
WELL NO.	WD <sup>b</sup>	MTD <sup>c</sup>	COMMENTS		
MEASUREMENT 1					
MEASUREMENT 2					
MEASUREMENT 3					
AVERAGE WD		AVERAGE MTD		+ [ ] - [ ]	PROBE END <sup>d</sup> TD <sup>e</sup> CHK'D BY
WELL NO.	WD <sup>b</sup>	MTD <sup>c</sup>	COMMENTS		
MEASUREMENT 1					
MEASUREMENT 2					
MEASUREMENT 3					
AVERAGE WD		AVERAGE MTD		+ [ ] - [ ]	PROBE END <sup>d</sup> TD <sup>e</sup> CHK'D BY

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**FOOTNOTES:**

- a = TOWC = TOP OF WELL CASING
- b = WD = DEPTH OF WATER FROM MP
- c = MTD = MEASURED TOTAL DEPTH FROM MP
- d = PROBE END = LENGTH BEYOND MEASURING POINT ON PROBE
- e = TD = TOTAL DEPTH OF WELL FROM MP

**NOTES:**

- ALL MEASUREMENTS ARE RELATIVE TO MARK POINT (MP) = NORTH SIDE OF TOWC.
- QC REVIEW BY SUPERVISOR IS A CHECK OF REASONABLENESS.
- MEASUREMENTS 1. AND 2. MUST BE WITHIN .01 FT. OR A 3rd MEASUREMENT MUST BE TAKEN.