

Pond Discharge Notification Cover Sheet

Date: 4/30/2010

Total pages including cover sheet = 3

To:

| | | |
|------------------------|--------------------|---|
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From: George Squibb, Rocky Flats Surface Water Lead, telephone (303) 994-0145

Re: Discharge notification for Rocky Flats Pond A-4.

Initial pre-discharge samples for Pond A-4 were collected on 4/7/10. All results indicate that water quality is acceptable for discharge. The pre-discharge sample results are attached below; Rocky Flats contract lab results are preliminary. A validation report for the Rocky Flats contract lab results will accompany a subsequent notification.

Discharge of Pond A-4 is scheduled to begin on 5/1/10 at 1:00 p.m.

Pond A-4 will be direct discharged using the outlet works to North Walnut Creek through Point of Compliance (POC) location GS11. All required monitoring at downstream POCs GS11 and GS03 (Walnut Creek at Indiana Street) will be performed according to the normal protocols in Attachment 2 to RFLMA. The discharge is expected to continue for 14-21 days, with a total discharge volume of approximately 23.0 million gallons.

Please contact me if you have questions.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556–8171 – www.gel.com

Certificate of Analysis

Company : SM Stoller—Grand Junction
Address : 2597 B 3/4 Road
Grand Junction, Colorado 81503

Report Date: April 30, 2010

Contact: Mr. Steve Donovan
Project: **Rocky Flats SW – ALS D**

Client Sample ID: IFZ 936/A4 POND
Sample ID: 250689001
Matrix: WC
Collect Date: 07-APR-10 11:30
Receive Date: 08-APR-10
Collector: Client

Project: STOL00600
Client ID: STOL006

| Parameter | Qualifier | Result | DL | RL | Units | DF | Analyst | Date | Time | Batch | Method |
|--|-----------|--------|------------|--------|-------|-------|---------|----------|------|--------|--------|
| Metals Analysis–ICP–MS | | | | | | | | | | | |
| <i>3005/6020 Uranium "As Received"</i> | | | | | | | | | | | |
| Uranium | | 13.6 | 0.050 | 0.200 | ug/L | 1 | BCD1 | 04/28/10 | 0519 | 973470 | 1 |
| Nutrient Analysis | | | | | | | | | | | |
| <i>EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"</i> | | | | | | | | | | | |
| NO2+NO3 as N | | 4.26 | 0.100 | 0.500 | mg/L | 10 | AXH3 | 04/13/10 | 1131 | 972697 | 2 |
| Rad Alpha Spec Analysis | | | | | | | | | | | |
| <i>Alphaspec Am241 Liquid "As Received"</i> | | | | | | | | | | | |
| Americium–241 | U | ND | +/-0.00544 | 0.0153 | 0.030 | pCi/L | AYB1 | 04/20/10 | 2259 | 975905 | 3 |
| <i>Alphaspec Pu–239/240, Liquid "As Received"</i> | | | | | | | | | | | |
| Plutonium–238 | | 0.0172 | +/-0.0121 | 0.0163 | 0.030 | pCi/L | AYB1 | 04/20/10 | 2301 | 976117 | 4 |
| Plutonium–239/240 | U | ND | +/-0.00635 | 0.0108 | 0.030 | pCi/L | | | | | |

The following Prep Methods were performed

| Method | Description | Analyst | Date | Time | Prep Batch |
|-------------|------------------|---------|----------|------|------------|
| SW846 3005A | ICP–MS 3005 PREP | LYH1 | 04/13/10 | 0915 | 973469 |

The following Analytical Methods were performed

| Method | Description | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1 | SW846 3005/6020 | |
| 2 | EPA 353.2 | |
| 3 | DOE EML HASL–300, Am–05–RC Modified | |
| 4 | DOE EML HASL–300, Pu–11–RC Modified | |

| Surrogate/Tracer recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|--|--------|---------|-----------|-------------------|
| Americium–243 Tracer | Alphaspec Am241 Liquid "As Received" | | | 59.0 | (15%–125%) |
| Plutonium–236 Tracer | Alphaspec Pu–239/240, Liquid "As Received" | | | 85.3 | (15%–125%) |



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Laboratory Services Division
8100 Lowry Boulevard Denver, CO 80230
PO Box 17123 Denver, CO 80217
303-692-3090
www.cdphe.state.co.us/lr

Laboratory Results For Sample Number: ENV-2010003773-

Site ID/PWSID

Site
Address

Contact Carl Spreng
Phone x3358
Fax
Email

Site Description ROCKY FLATS POND A4

Customer ID 00008835

Customer CDPHE - HMWMD - Rocky Flats Unit
4300 Cherry Creek Drive South

Denver CO 80246

Collected By CS

Collected 04/07/2010 12:50:00

Received 04/07/2010 15:47:00

Reported 04/26/2010 00:00:00

Bottles 2 CUB, 2-250 M, 1-250 NUT, 1-250 NEUT

Matrix Surface Water

Field Fluoride

Residual Chlorine

Temperature at Receipt 12.3C

| Test Name | Result | Units | MCL | MDA | Method Name | Date Analyzed | Qualifier |
|---------------------------|---------|-------|-----|--------|--------------|------------------------|-----------|
| Plutonium-239+240 | < 0.005 | pCi/L | NA | 0.005 | ASTM-3084-89 | 04/24/2010 00:00:00 | |
| Americium-241 | < 0.037 | pCi/L | NA | Varies | ASTM-3084-89 | 04/24/2010 00:00:00 | Q |
| Uranium, Total | 0.010 | mg/L | NA | 0.001 | EPA 200.8 | 04/13/2010 00:00:00 | |
| Nitrogen, Nitrate/Nitrite | 4.4 | mg/L | NA | 0.03 | EPA 353.2 | 04/12/2010 00:00:00 | |

Comments:

Q = Am-243 tracer recovery outside normal QC limits.

Am-241 MDA = 0.37 pCi/l.

Registry Comments: