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ROCKY FLATS FIELD OFFICE
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GOLDEN, COLORADO 80403-8200

DUE DATE
ACTION

JAN 26 2004

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DIST.	LTR	ENC
BERARDINI, J.H.	X	X
BOGNAR, E.S.	X	X
BROOKS, L.	X	X
BUTLER, L.	X	X
CARPENTER, M.	X	X
CROCKETT, G. A.		
DECK, C. A.	X	X
DEGENHART, K. R.	X	X
DIETER, T. J.		
DIETERLE, S. E.		
FERRERA, D. W.		
GIACOMINI, J. J.		
LINDSAY, D. C.	X	X
LONG, J. W.		
LYLE, J. L.		
MARTINEZ, L. A.	X	X
NAGEL, R. E.	X	X
NESTA, S.		
NORTH, K.	X	X
PARKER, A. M.	X	X
RODGERS, A. D.		
SHELTON, D. C.	X	X
SPEARS, M. S.		
TRICE, K. D.		
TUOR, N. R.	X	X
WIEMELT, K.		
WILLIAMS, J. L.		
ZAHM, C.	X	X

Mr. Steven H. Gunderson
 Rocky Flats Cleanup Agreement Project Coordinator
 Colorado Department of Public Health and Environment
 4300 Cherry Creek Drive South
 Denver, Colorado 80246-1530

Mr. Gary Kleeman
 Rocky Flats Project Manager
 U.S. Environmental Protection Agency, Region VIII
 999 18th Street, Suite 500
 Denver, Colorado 80202-2466

Dear Mr. Gunderson and Mr. Kleeman:

Enclosed is the Rocky Flats Cleanup Agreement Implementation Quarterly Status Report for the Fourth Quarter for Fiscal Year 2003.

If you have any questions or comments, please contact me at (303) 966-2282, or Richard Schassburger at (303) 966-4888.

Sincerely,

Joseph A. Legare
 Assistant Manager
 for Environment and Stewardship

COR. CONTROL	X	X
ADMIN. RECORD	X	X
PATS/130		

Enclosure

cc w/o Encl.:
 F. Lockhart, OOM, RFFO
 R. Schassburger, HR, RFFO
 D. Shelton, K-H
 L. Brooks, K-H

Reviewed for Addressee
Corres. Control RFP

01/27/04 *AL*
 Date By

Ref. Ltr. #

DOE ORDER #

5400.1

QUARTERLY STATUS REPORT
ROCKY FLATS CLEANUP AGREEMENT IMPLEMENTATION
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
FOURTH QUARTER FISCAL YEAR 2003

1.0 Introduction

Pursuant to paragraphs 122 and 263 of the Rocky Flats Cleanup Agreement (RFCA or Agreement), this quarterly status report presents the progress toward implementation of activities covered under the Agreement. The RFCA is a legally binding agreement between the Department of Energy (DOE), the Environmental Protection Agency (EPA), and the Colorado Department of Public Health and Environment (CDPHE) to accomplish required cleanup of radionuclide and hazardous substance contamination at and from the Rocky Flats Environmental Technology Site (RFETS). For the purposes of this report, the term, the Site, refers to both DOE and the Kaiser-Hill Company, L. L. C. (Kaiser-Hill).

This report describes activities that occurred from July 2003 through September 2003 (referred to as the fourth quarter of fiscal year [FY] 03). The sections of this report are organized into the following topics: (1) Introduction; (2) Site-wide Activities Implementing RFCA and Supporting RFETS Closure; (3) RFETS Closure Projects; (4) Water Management; and (5) List of Approved Decision Documents.

2.0 Site-wide Activities Implementing RFCA and Supporting RFETS Closure

Site-wide activities implementing RFCA and supporting RFETS closure during the fourth quarter of FY03 included: (1) Closure Project Baseline and Status of RFCA Milestones and (2) Integrated Monitoring Plan Update.

2.1 Closure Project Baseline and Status of RFCA Milestones (Pending #'s)

In accordance with the RFCA earned value framework, which the RFCA Parties adopted for setting milestones pursuant to the requirements in RFCA Part 11, Subpart A, the following is the current Site status on achieving the FY03 Tier 1 milestones. The earned value amounts and percentages are through September 30, 2003. The earned values shown below represent all FY03 Tier 1 milestones, all of which have been met.

Table 1.
Status of FY03 RFCA Milestones through SEPTEMBER 30, 2003

RFCA/EV Category	FY03 Milestone Budgeted Cost of Work Scheduled (\$M)	1 st Quarter Actual Budgeted Cost of Work Performed (\$M) Includes prior year BCWP carryover	2 nd Quarter Actual (BCWP) (\$M)	3 rd Quarter Actual (BCWP) (\$M)	4 th Quarter Actual (BCWP) (\$M)
D&D	28.100	24.465 (milestone met)	7.369	16.748 (all surplus)	34.510
LLW	5.910	5.027 (milestone met)	3.452	20.499 (all surplus)	15.530
TRU	0.750	0.755	0.375 (milestone met)	0.506 (all surplus)	0.528
ER	0.550	21.461 (milestone met)	0.00	12.837 (all surplus)	4.632
M5	35.310	50.953 (milestone met)	10.821	50.084 (all surplus)	0.0

The Site continued to accelerate work in all areas of the project during the fourth quarter of FY03. This acceleration has been enabled by the continued focus on safety that has allowed the buildings to operate without major work stoppages, and the deployment of new technologies that improved productivity. At the end of the fourth quarter of FY03, the major facilities continued to accelerate their decommissioning and demolition work activities. As decommissioning work is accelerated, waste shipping continues to accelerate to keep up with waste volume.

The focus during FY03 has been to continue to accelerate Decontamination & Decommissioning (D&D) of the south side (uranium buildings and support facilities); continue accelerated progress in decommissioning of plutonium facilities, increase volume of waste shipped over prior year levels; and continue to accelerate environmental restoration (ER).

These statistics are based upon the subset of activities coded as RFCA on the Contract Predetermined Work Activity matrix most recently approved by DOE. These statistics will not reflect any recent changes to the RFCA activities that may have resulted from recent negotiations between DOE and the regulators.

2.2 Integrated Monitoring Plan Update

During the fourth quarter of FY03, a number of changes to the Integrated Monitoring Plan (IMP) were proposed and discussed; these changes will be published during the first quarter of FY04 as the FY04 IMP. Changes include the addition of sample points for surface water monitoring, the removal of several air samplers to facilitate decommissioning of utilities, the cessation of annual Preble's Meadow Jumping Mouse trapping, and the identification and removal of a number of unproductive and/or redundant groundwater monitoring locations.

Given the increasing pace of D&D and ER activities, and the corresponding anticipated increase in changes to monitoring plans, the IMP will be publishing revisions more frequently than once a year (though no more often than quarterly). This will facilitate revising project and performance monitoring design and memorializing monitoring infrastructure removals in a timelier manner. It will also provide more opportunities for discussions with stakeholders.

As stated in the third quarter of FY03 report, discussions about how the monitoring programs will transition from the present project monitoring emphasis to remedial action performance and monitoring for environmental compliance are underway. The next step in this evolution will be the adoption of end-state monitoring plans into the IMP, to enable current monitoring schemes to evolve toward their closure configurations.

As an example of the pending process, air quality monitoring is currently using a comprehensive 38-station network to demonstrate compliance with radionuclide National Emission Standards for Hazardous Air Pollutants requirements, to measure environmental impacts that might result from a release of radionuclides due to upset nuclear processes, and to verify the performance of projects engaged in demolition or ER activities. Very soon the nuclear processes will cease, and the only sources of radionuclides will be associated with fugitive emissions. Soon after that, D&D and ER activities will be reduced to a level that portends little or no potential for measurable impact to the environment. As these activities phase out, air monitoring will undergo a corresponding reduction in scope, with the ultimate goal of operating only the network needed to demonstrate compliance with applicable radionuclide National Emission Standards for Hazardous Air Pollutants requirements. Similar considerations will be engaged in reviewing the surface water, groundwater and ecological monitoring needs for RFETS.

3.0 RFETS Closure Projects

RFETS Closure activities conducted during the fourth quarter of FY03 included: (1) Industrial Area Operable Unit, Building (B) 771; (2) Industrial Area Operable Unit, B776/777; (3) Industrial Area Operable Unit, B371/374; (4) Industrial Area Operable Unit, B707; and (5) Remediation, Industrial & Site Services Project (RISS).

3.1 Industrial Area Operable Unit, B771 Closure Project

The B771 Closure Project Decommissioning Operations Plan (DOP) was approved by CDPHE on January 11, 1999. As of September 30, 2003, five modifications to the DOP have been approved. During the fourth quarter of FY03, the B771 Closure Project Team conducted the following activities:

1. Completed area AD demolition; areas AF and AM dismantlement; and Guard Post 773 and trailer E/H demolition.
2. Received approval for DOP Modification #5. The modification changes the decommissioning criteria such that specified levels of fixed plutonium (Pu) and americium (Am) contamination in concrete may be left in areas greater than six foot below final grade.
3. Completed groundwater modeling in the 771/774 area in order to address erosion concerns and potential impacts from the 776/777 solvent plume.
4. Mactec's wastewater treatment continues to operate and is supporting hydro-lasing activities. Internal wall demolition continues (Second floor).

The Actinide Migration Evaluation Advisors have been involved with discussions on Pu/Am ratios and Pu, Am, and uranium solubility effects of carbon tetrachloride. These discussions were documented in the May 2003 meeting summary.

3.2 Industrial Area Operable Unit, B776/777 Closure Project

The B776/777 Closure Project DOP was approved by CDPHE on November 5, 1999. As of September 30, 2003, ten minor modifications and one major modification to the DOP have been approved. The Demolition Plan was a major modification; it was approved on July 1, 2003.

There are a total of eighty-four work sets in the B776/777 Project. 77 sets have been completed to date. Three D&D work sets were completed in the fourth quarter of FY03. These included Set 66 (Advanced Size Reduction Facility), Set 67 (Room set, Rooms 123, 134, and 137), and Set 80 (Zone 1 plenums and associated ductwork).

The remaining equipment subject to the Mixed Residue Consent Order has been drained and removed. A Consent Order closeout will be sent to CDPHE during the first quarter of FY04.

CDPHE approved the Pre-Demolition Survey Report for Buildings 710 and 781 on September 26, 2003, confirming that these buildings are Type 1 facilities. CDPHE also approved the Project Specific Non-Radiological Characterization Plan for Building 776/777, which addresses characterization prior to demolition.

Work continues on overhead removal of conduit, piping and zone 2 ducting (Set 83). In the planning stage are Set 69 (removal of the five T-Tanks), Set 65 (compressor house), and Set 77 (removal of 2 out-of-service, natural gas fired chillers). Asbestos abatement continues and decontamination is expected to begin within the next quarter.

3.3 Industrial Area Operable Unit, B371/374 Closure Project

The B371/374 Closure Project DOP was approved by CDPHE on March 29, 2001. As of September 30, 2003, three field modifications to the DOP have been approved. During the fourth quarter of FY03, the B371/374 Closure Project Team conducted the following activities:

1. Completed dismantlement of a total of 22 sets. Significant progress has been made on Sets 6, 12, and 16. The Closure Project Team has removed a total of 184 gloveboxes and 123 tanks.
2. Continued to remove storage pallets in support of the D&D of the Central Storage Vault. Removal operations are currently being done through I/O 8. A total of 702 of 1147 pallets have been removed.
3. Placed the following Resource Conservation and Recovery Act (RCRA) units into RCRA Stable status: B371.1A Rooms 1210, 2217, 2321, 3315, 3341, and 3709; B371.1B Room 3701 Glovebox 1509 and Room 3515 Glovebox 32; 371.1C Vaults 3202, and 3204.
4. Continued the strip-out of Area AM (B374 Chemical Preparation Area). The Closure Project Team has removed tanks and electrical equipment in support of the dismantlement of this area.
5. Continued the sludge removal from the B374 tanks.
6. Completed removal of Special Nuclear Material necessary to close Protected Area and Material Access Area. All vaults are empty and deactivated.

Activities planned for the first quarter of FY04 include: complete pallet removal, continue strip-out of Area AM, continue strip-out of electrical, mechanical, tanks, and glovebox systems in Sets 6, 8, 12, 57, and 58; and continue sludge removal from B374 tanks.

3.4 Industrial Area Operable Unit, B707 Closure Project

The B707 Closure Project DOP was approved by CDPHE on January 18, 2001. As of September 30, 2003, two minor modifications to the DOP have been approved.

During the fourth quarter of FY03, the B707 Closure Project Team conducted the following activities: Completed Sets B5, E5, J2, J5 and K3. This brings the total sets completed to date to 62 of 99 sets. The work performed this quarter encompassed the removal of another 38 (to date, 336 of total 377) glovebox/chainveyor equivalents. The RCRA-permitted bottle storage racks in J Module (J Racks, Unit 707.1) were closed by conducting debris cleaning followed by removal.

Activities planned for the first quarter of FY04 include the completion of Sets B6, B8, C8, J4, K4, K5, Second Floor Set 4, and Y4, begin work on Second Floor Sets 3 and 6, R1, R2 and R3. In addition, asbestos abatement continues in B707 and module wall removal will begin in the first quarter of FY04.

3.5 Remediation, Industrial & Site Services Project

RISS activities supporting RFETS closure during the fourth quarter of FY03 include D&D as well as ER.

3.5.1 Decontamination and Decommissioning

During the fourth quarter of FY03, the following activities were completed:

1. Limited decommissioning activities continued in B444 with the removal of the external section of the beryllium plenum from the former Beryllium Shop. Building 444 decommissioning teams worked with ER teams to complete the sampling for the B444 under building contamination (UBC).
2. Demolition of the B865 complex was completed leaving only the main facility slab to be removed along with the ER sampling and remediation (if required). The Pre-Demolition Survey for B865 was evaluated by DOE through an Independent Verification and was deemed satisfactory. Recommendations for improvement and lessons learned have been implemented for subsequent pre-demolition survey activities.

3. Decommissioning of B126, B569, B570, B668, and B790.
4. Decommissioning of the remainder of B334 and B551.
5. Decommissioning of the B991 tunnel using a foam plug.
6. Decommissioning of the remainder of the Protected Area following the removal of the last of the weapons-usable plutonium from B371.

Other significant fourth quarter of FY03 decommissioning activities include:

- Securing of steam service for the site;
- Elimination of natural gas utility from the site (completion of heating conversions); and
- Installation and initial testing of a water pump skid in preparation for the demolition of the site water tower.

Following is a summary of the Reconnaissance Characterization Reports and Pre-Demolition Survey Reports as of September 30, 2003.

DATA SUMMARY	Type 1 RLC		Type 2 RLC		PDS		Overall	
	No.	%	No.	%	No.	%	No.	%
Facilities Not Started	0	0%	0	0%	0	0%	0	0%
Facilities In Progress	37	18%	29	44%	52	64%	118	34%
Facilities Completed	164	82%	37	56%	29	36%	230	66%
Total No. of Facilities	201	100%	66	100%	81	100%	348	100%

DATA SUMMARY	Type 1 RLC		Type 2 RLC		PDS		Overall	
	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft	%
Sq Ft Not Started	0	0%	0	0%	0	0%	-	0%
Sq Ft In Progress	391,532	32%	261,708	27%	848,962	80%	1,502,202	46%
Sq Ft Completed	822,148	68%	697,671	73%	218,644	20%	1,738,463	54%
Total Sq Ft	1,213,680	100%	959,379	100%	1,067,606	100%	3,240,665	100%

3.5.2 Environmental Restoration

ER activities implementing RFCA and supporting closure during the fourth quarter of FY03 included: (1) Buffer Zone (BZ) Operable Unit (OU), Group 900-11 (903 Pad); (2) BZ OU, Individual Hazardous Substance Site (IHSS) 133.5 (Incinerator); (3) Group 000-5 (Present Landfill) and Group SW-2 (Original Landfill); and (4) Industrial Area (IA) Characterization.

3.5.2.1 Buffer Zone Operable Unit, Group 900-11 (903 Pad)

The 903 Pad project involves excavation and off-site disposal of asphalt and underlying contaminated soil. The following work activities under the ER RFCA Standard Operating Protocol (RSOP) were completed during the fourth quarter of FY03:

- 57 cells were completed (excavated and backfilled);
- 700 intermodals have been filled with excavated soil, gravel fill and asphalt; and
- 684 intermodals have been shipped off site for disposal.

The project to date has accomplished the following:

- 198 cells have been completed (88 percent of the 225 total cells) and
- 28,400 tons of soil, gravel and asphalt have been excavated.

3.5.2.2 Buffer Zone Operable Unit, IHSS 133.5 (Incinerator)

During removal of excess, clean concrete from an area used during plant construction to washout concrete trucks prior to leaving RFETS, the former Incinerator, IHSS 133.5, was found on April 24, 2003. It was suspected that the Incinerator slab, or portions of the Incinerator structure, might still be present in this area, however, the exact location could not be determined because the concrete washout in this area is up to eight feet thick.

The Incinerator was built into the hillside and it appears that the structure was partially backfilled along the north, east and west sides while it was operating. After it was abandoned, the rest of the structure was covered with fill, then clean excess concrete was poured over it and much of the surrounding area as part of the washout operations.

Radiological surveys of the exposed Incinerator sides and roof were performed. Detectable activity was well below action limits (i.e., this material is free releasable). Beryllium swipes were below action levels except those taken immediately within the lower ash chutes. Soil samples collected adjacent to the Incinerator were also below action levels. Soil/ash samples and radiological surveys from within the lower ash chutes indicate depleted uranium is present above action levels.

3.5.2.3 Group 000-5 (Present Landfill) and Group SW-2 (Original Landfill)

Group 000-5 (Present Landfill)

This project involves the design and construction of a RCRA compliant cover at the Present Landfill. The Interim Measure/Interim Remedial Action Decision Document (IM/IRA) underwent formal public review during the fourth quarter of FY02 and has been revised, based upon consideration of comments and continuing RFCA Party consultation.

A modified, proposed final IM/IRA was released for an additional 45-day public comment period starting on September 23, 2003.

Group SW-2 (Original Landfill)

The draft IM/IRA is scheduled to be available for agency and informal stakeholder review in the first quarter of FY04. Field activities related to the design of the proposed action are scheduled to commence in the second quarter of FY04.

3.5.2.4 Industrial Area Characterization

The IA Sampling and Analysis Plan (IASAP) was approved by CDPHE in June 2001. IASAP Addenda for FY03 were prepared to describe soil-sampling locations in IHSSs, Potential Area of Concern (PAC), and UBC sites. The IASAP Addenda contain maps of existing sampling locations and data, where available, and proposed new sampling locations. During fourth quarter of FY03, IHSS Group 400-3 was characterized; some characterization was conducted at 400-7. Data analysis of IHSS Groups 400-3, 900-3, and 700-4 is ongoing.

Table 2 lists the status of ER Closure Documents, including IASAP Addenda.

Table 2. STATUS OF RFETS CLOSURE DOCUMENTS

IHSS Groups	Status	Date DOE to Agencies	Approval Date
Closeout Reports			
000-1 - SEP AOC	Received approval.	12/18/02	7/29/03
600-1 - Temporary Waste Storage - B663	Received approval.	12/23/02	6/24/03
600-2 - Storage Shed South of B334	Received approval.	3/13/03	6/19/03
Data Summary Reports			
300-3 - UBC 371 - Plutonium Recovery	Received approval	8/11/03	8/21/03
300-4 - UBC 374 - Waste Treatment Facility	Received approval	8/11/03	8/21/03
300-6 - PAC 300-702 Pesticide Shed	Received approval	7/15/03	7/21/03
400-10 - IHSS 120.2, IHSS 161, & PAC 400-807	Received approval	9/30/02	7/15/03
500-6 - PAC 500-906	Received approval.	9/30/02	7/16/03
800-2 - B881 UBC et al	Received approval.	3/17/03	7/16/03
900-2 - IHSSs 153 and 154	Awaiting approval from agencies.	8/16/03	
900 - 4&5	Received approval	12/4/02	7/23/03
NE/NW	Awaiting approval from agencies.	8/19/03	
NEPA Summaries			
IHSSs 150.6 and 150.8 Radioactive Site South of Building 779 and Radioactive Site Northeast of Building 779	Awaiting approval from agencies	9/24/03	
IHSS 140 - Hazardous Disposal Area	Awaiting approval from agencies	9/30/03	
UBC 991 Tunnel	Received approval	NA	8/21/03
IASAP Addenda			
IA-03-08 - IHSS - Group 300-2	Received approval	5/7/03	7/17/03
IA-03-09 - Group 600-4	Received approval	8/11/03	8/22/03
IA-03-11 - 000-2 OPWL	Received approval	7/24/03	8/28/03
IA-03-12 - Group 500-3	Received approval	6/26/03	8/20/03
IA-03-14 - Group 400-5 and 6	Received approval	7/1/03	8/20/03
IA-03-15 - Group 700-7	Awaiting approval from agencies	8/21/03	
IA-03-17 - Group 700-5	Awaiting approval from agencies	9/15/03	
OTHER			
ER RSOP Modification	Received approval	NA	9/17/03
IA/BZSAP Modification	Awaiting approval to combine IA and BZ SAPs		

4.0 Water Management

Water management activities during the fourth quarter of FY03 are summarized by (1) Watershed Improvements; (2) Surface Water Management; (3) Surface Water Monitoring; (4) Groundwater Monitoring; and (5) the Rocky Flats Water Working Group.

4.1 Watershed Improvements

Annual *Comprehensive Site Compliance Evaluation* inspections are required by the National Pollutant Discharge Elimination System Permit and were successfully completed during the fourth quarter of FY03. These inspections identify potential pollution sources, evaluate and implement sediment and erosion control measures, and classifies the condition of the RFETS drainage structures. In addition, inspections of the Site Storm Drain Structures continued while inspections of the Site Oil Tanks were completed during the fourth quarter of FY03.

There was no maintenance or cleanout activities performed on RFETS ditches or storm water conveyance structures during the fourth quarter of FY03.

Continued selected 2003 dam maintenance work, including vegetation control, crest grading as necessary, grading spillways at several dams, re-distributing riprap on the upstream slope of several dams, and applying herbicide to the upstream slopes of all dams. Replaced handwheel and stem of valve on the East Landfill Pond dam as a maintenance activity, ensuring its future operability.

Storm water pollution prevention practices (silt fences, straw bales, recontouring patterns, etc.) were implemented for various demolition projects to minimize erosion and storm water runoff that could impact earlier accelerated actions and the natural drainage system.

4.2 Surface Water Management

During the fourth quarter of FY03, RFETS completed the following pond water transfers and discharges totaling 22.93 Million Gallons (MG), an increase of 9% compared to the fourth quarter of FY02 (20.87 MG).

Pond A-3 activity included one outlet-valve direct discharge to Pond A-4 totaling 1.89 MG. This discharge occurred during the period of July 1 through 2, 2003.

Pond B-5 activity included two outlet-valve direct discharges to South Walnut Creek and one pumped-transfer to Pond A-4 totaling 20.84 MG. The first discharge of 9.48 MG occurred during the period of July 7 through 17, 2003. The second direct discharge of 9.43 MG occurred during the period of September 5 through 16, 2003. Water-quality

samples were collected and analyzed, and all approvals were obtained prior to the discharges. The City of Broomfield diverted the Pond B-5 discharges around Great Western Reservoir via the Broomfield Diversion Ditch. The pumped-transfer of 1.93 MG to Pond A-4 occurred during the period of September 16 through 29, 2003. This transfer was performed to dewater Pond B-5 to a low pool level where the annual visual inspection of the upstream outlet valve could occur.

Landfill Pond activity included one pumped-transfer to Pond A-3 totaling 0.20 MG. This pumped-transfer occurred on July 16, 2003, in accordance with the Pond Operations Plan.

There were no Pond A-1, A-2, A-4, B-1, B-2, or C-2 transfers or discharges during the fourth quarter of FY03.

Transfers and discharges from the Site ponds during the fourth quarter of FY03 are summarized in Table 3.

Table 3. Site Pond Water Transfers and Discharges - Fourth Quarter FY03

Dates	Pond Activity	Total MG	Mode
7/1 to 7/2	A-3 to A-4	1.89	Outlet-valve direct discharge
7/7 to 7/17	B-5 to SWC	9.48	Outlet-valve direct discharge
7/16	Landfill to A-3	0.20	Pumped-transfer
9/5 to 9/16	B-5 to SWC	9.43	Outlet-valve direct discharge
9/16 to 9/29	B-5 to A-4	1.93	Pumped-transfer
	Total for Quarter	22.93 MG	

4.3 Surface Water Monitoring

During the fourth quarter of FY03, 57 composite samples were collected by the RFCA automated monitoring network and submitted for analysis. This level of sampling activity is 51% of anticipated (112 samples targeted) for the current monitoring network and 16% less than the average (68 samples) for the same period during the prior six years of RFCA sampling (4Quarter(Q)FY02: 56 samples, 4QFY01: 76 samples, 4QFY00: 84 samples, 4QFY99: 75 samples, 4QFY98: 47 samples, and 4QFY97: 69 samples). The decrease in sampling activity resulted from decreased runoff in July-September due to the recent drier than average weather (51% of average precipitation).

Installation of monitoring equipment at GS60 was completed on August 13, 2003. GS60 is located on a ditch northeast of B371 along former Protected Area perimeter and provides performance-monitoring coverage for the SW093 subdrainage basin, and specifically B371/374. GS60 is located at state plane 2083015, 751226; the location is tributary to North Walnut Creek. The GS60 drainage area is approximately 9.7 acres. This station collects samples for Pu, Am, uranium isotopes, Contract Laboratory Protocol metals, and total suspended solids using continuous flow-paced composite sampling.

Two additional surface-water performance-monitoring locations (location codes GS61 and SW018) are scheduled for installation during the first quarter of FY04. The two locations are intended to provide performance monitoring for closure activities at B371/374. GS61 will be installed on the ditch just west of the 231 Tanks, and SW018 will be upgraded in the North Walnut Creek tributary to the east and northeast of B371/374.

Operation of gaging station SW009 was terminated on September 14, 2003. The location was removed as the Sitewide Water Balance Project no longer needed flow data. The flume will be redeployed at location SW018, with the other equipment being placed in reserve.

4.4 Ground Water Monitoring

Results of the First (calendar) Quarter 2003 RFCA Groundwater Monitoring Report was presented at the Quarterly Information Exchange Meeting on August 26, 2003.

Other activities completed during the fourth quarter of FY03 included:

1. The draft Annual RFCA Groundwater Monitoring Report is being prepared and is expected to be issued during the second quarter of FY04.
2. A 2003 (calendar year) Well Installation and Sampling Project Work Plan was completed to install 14 additional or replacement wells and to collect surface water grab samples within the IA. Well installation has been initiated and will be completed in the first quarter of FY04.
3. One hundred fourteen (114) Integrated Monitoring Program groundwater monitoring wells were sampled during the fourth quarter of FY03. Seven hundred thirty-four (734) groundwater samples were shipped to offsite laboratories for analysis. Sampling of 12 additional wells was attempted but the wells were either dry or technically dry.

4. Ninety-eight (98) groundwater monitoring wells were sampled as part of the FY03 Volatile Organic Compound Snapshot Sampling Program. One hundred three (103) groundwater samples were shipped to offsite laboratories for analysis. Sampling of 33 additional wells was attempted but the wells were either dry or technically dry. The Snapshot Sampling Program was completed on August 15, 2003. The FY03 Volatile Organic Compound Snapshot Sampling Program is a one time sampling event to obtain the extent of current volatile organic compound groundwater data within and adjacent to the IA.
5. Water levels were measured at 357 monitoring wells during the fourth quarter of FY03. Water level measurements were attempted at an additional 37 wells which were either dry or technically dry.
6. The well abandonment and replacement program abandoned eight wells during the fourth quarter of FY03. Two-hundred seventy-eight (278) of the 332 wells scheduled for abandonment in 2003(calendar year) have been abandoned. Twenty-eight (28) of 54 lower hydrostratigraphic unit wells have been grouted but not completely abandoned.

5.0 Approved Decision Documents

This information updates RFCA Attachment 12, per RFCA paragraph 122.

The Demolition Plan for B776/777 was added to the B776/777 DOP through a major modification in accordance with RFCA. The Demolition Plan, which is Appendix I in the DOP, was approved by CDPHE on July 1, 2003.