Department of Energy 1594

Ohio Field Office
Fernald Area Office
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JUL 16 1998

DOE-0955-98

Mr. James A. Saric, Remedial Project Manager
U.S. Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT - JUNE 1, 1998, THROUGH JUNE 30, 1998, AND QUARTERLY REPORT APRIL 1, 1998, THROUGH JUNE 30, 1998, INCLUDING EFFLUENT RADIATION REPORTS, RADON REPORTS, AND REMOVAL ACTION STATUS REPORT

This letter transmits the amended Consent Agreement Monthly Report for the period of June 1, 1998, through June 30, 1998, and the Quarterly Report for the period April 1, 1998, through June 30, 1998. This report is formatted to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J. A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements," dated January 16, 1996, and agreed to by the U.S. Environmental Protection Agency (U.S. EPA) and Ohio Environmental Protection Agency (OEPA).

Also enclosed is the diskette containing Radon data for April, May, and June 1998.

If you have any questions, please contact me at (513) 648-3139.

Sincerely,

Johnny Reising

FEMP:Reising

Johnny W. Reising
Fernald Remedial Action
Project Manager

Enclosures: As Stated

cc w/encs:

N. Hallein, EM-42, CLOV
G. Jablonowski, USEPA-V, SRF-5J
R. Beaumier, TPSS/DERR, OEPA-Columbus
F. Barker, Tetra Tech
D. Carr, FDF/52-2
T. Hagen, FDF/65-2
AR Coordinator, FDF/78

cc w/o encs:

A. Tanner, DOE-FEMP
F. Bell, ATSDR
M. Schupe, HSI GeoTrans
J. Harmon, FDF/90
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S. Hinnefeld, FDF/2
B. Irvine, FDF/65-2
T. Walsh, FDF/65-2
EDC, FDF/52-7

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT JUNE 1 THROUGH 30, 1998 AND QUARTERLY REPORT APRIL 1 THROUGH JUNE 30, 1998 INCLUDING EFFLUENT RADIATION REPORTS, RADON REPORTS AND REMOVAL ACTION STATUS REPORT

Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from April 1 through June 30, 1998. The monthly and quarterly reports have been revised to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J.A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements", dated January 16, 1996, and agreed to by USEPA and OEPA.

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT JUNE 1 THROUGH 30, 1998 AND QUARTERLY REPORT APRIL 1 THROUGH JUNE 30, 1998 INCLUDING EFFLUENT RADIATION REPORTS, RADON REPORTS AND REMOVAL ACTION STATUS REPORT

OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

April 1998

- Enforceable Milestones Completed
  - Submitted Transportation and Disposal Plan to Agencies April 27, 1998

- Major Work Initiated/Continued/Completed
  - Completed Locomotive Maintenance Building utilities installation
  - Continued on-site rail infrastructure upgrade
  - Continued Shandon Yard upgrade construction
  - Initiated construction of rail and access road lighting
  - Continued developing/finalizing IT's pre-mobilization and pre-operations deliverables
  - Initiated IT's development of Draft Remedial Action deliverables
  - Continued development of Draft Waste Management Plan
  - Awarded contract for 50 gondola railcars

May 1998

- Enforceable Milestones Completed
  - None

- Major Work Initiated/Continued/Completed
  - Completed on-site rail infrastructure upgrade
  - Completed Shandon Yard upgrade construction
  - Continued construction of rail and access road lighting
  - Continued developing/finalizing IT's pre-mobilization and pre-operations deliverables
  - IT continued development of Draft Remedial Action deliverables
  - Continued development of Draft Waste Management Plan

June 1998

- Enforceable Milestones Completed
  - None

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- Major Work Initiated/Continued/Completed
  - DOE awarded contract for disposal of pit wastes to Envirocare of Utah, Inc.
  - Received two locomotives obtained as excess from Department of Defense
  - Continued construction of rail and access road lighting
  - Continued developing/finalizing IT's pre-mobilization and pre-operations deliverables
  - Continued development of IT's Draft Remedial Action deliverables
  - Continued development of Draft Waste Management Plan

July 1998 (Anticipated)

- Enforceable Milestones
  - None

- Major Work to be Initiated/Continued/Completed
  - Continue construction of rail and access road lighting
  - Complete review of IT's pre-mobilization deliverables; issue authorization to IT to mobilize for treatment facility construction
  - Submit IT's Draft Remedial Action deliverables for DOE review
  - Continue development of Waste Management Plan
  - Continue reviewing IT's pre-operations deliverables

OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY

Additional OU2 soils-related activities reported under OU5/Soils Characterization and Excavation Project.

April 1998

- Enforceable Milestones Completed
  - None

- Major Work Initiated/Continued/Completed
  - On-Site Disposal Facility (OSDF)
    - Completed placement of 2-foot layer of select impacted material into Cell 1 April 15, 1998, using East Soil Stockpile materials
    - Continued construction of Decontamination Facility
    - Placed additional Category 1 (soil and soil-like) material from East Stockpile into Cell 1

- Began construction of access control and laboratory trailers
- Submitted Consent Package for OSDF Phase II/Southern Waste Units excavation subcontract to DOE April 8, 1998 (to be performed in conjunction with Soil Characterization and Excavation Project)
- Leachate Conveyance System (LCS)
  - Continued work on outstanding construction punch list items
  - Operated system and performed routine maintenance as required

May 1998

- Enforceable Milestones Completed
  - None

- Major Work Initiated/Continued/Completed
  - On-Site Disposal Facility (OSDF)
    - Awarded OSDF Phase II/Southern Waste Units excavation subcontract to Petro Environmental Technologies, Inc., May 4, 1998
    - Continued construction of Decontamination Facility
    - Continued construction of access control and laboratory trailers
    - Began installation of piping to connect leachate collection and leak detection manholes to pipes from Cells 2 and 3
    - Initiated movement of containers of debris to OSDF Transfer Area, after successful completion of associated Standard Startup Review (SSR)
  - Leachate Conveyance System (LCS)
    - Continued work on outstanding construction punch list items
    - Operated system and performed routine maintenance as required

June 1998

- Enforceable Milestones Completed
  - None

- Major Work Initiated/Continued/Completed
  - On-Site Disposal Facility (OSDF)
    - Initiated Phase II construction
    - Completed construction of Equipment Wash Facility
    - Completed construction of access control and laboratory trailers
    - Installed horizontal monitoring wells in Cells 2 and 3
    - Continued installation of piping to connect leachate collection and leak detection manholes to pipes from Cells 2 and 3

- Transmitted Final Waste Acceptance Criteria Attainment Plan for On-Site Disposal Facility to Agencies June 3, 1998
- Leachate Conveyance System (LCS)
  - Completed outstanding punch list items; all field work now completed
  - Operated system and performed routine maintenance as required

July 1998 (Anticipated)

- Enforceable Milestones
  - Begin OSDF Phase II construction by July 15, 1998

- Major Work to be Initiated/Continued/Completed
  - OSDF
    - Complete installation of piping connecting leachate collection and leak detection manholes to pipes from Cells 2 and 3
    - Perform Cell 3 excavation
    - Begin construction of Cell 2 compacted clay liner
    - Begin placement of waste into Cell 1
    - Begin preparation of OSDF Clay Borrow Area (located east of Fernald Site South Access Road)
  - LCS
    - Finalize as-built drawings
    - Perform project closeout activities

OPERABLE UNIT 3 - FACILITIES CLOSURE & DEMOLITION PROJECTS

April 1998

- Enforceable Milestones Completed

  - Submitted Sewage Treatment Plant Complex D&D Implementation Plan to Agencies March 2, 1998, in advance of actual milestone date of April 2, 1998

- Major Work Initiated/Continued/Completed
  - **Safe Shutdown**
    - Non-Nuclear Facilities
      - Completed excavation of Cooling Water Line to old Cooling Tower
      - Completed utility isolation/tie-ins to steam and chlorine lines

- Plant 2/3
  - Continued holdup material removal in selected areas
  - Continued asbestos removal
- Plant 6
  - Completed control point setup
  - Continued utility disconnects and biohazard removal
  - Continued ongoing packaging and movement of drummed material to Plant 1 Pad and other Resource Conservation and Recovery Act (RCRA) Storage Area
- D&D
- Boiler Plant/Water Plant
  - Completed Boiler Plant transite removal
  - Completed demolition of East and West Precipitator breeching and support steel
  - Completed demolition of Boiler Plant South Bay structural steel and removed all equipment
  - Started asbestos abatement and transite removal at old Cooling Tower
  - Sized, segregated, and containerized debris from demolition activities
- Thorium/Plant 9 Complex
  - Completed removal of asbestos-containing material in Plant 9
  - Completed demolition of railroad tracks for this complex
  - Continued interior dismantlement, equipment removal and interior demolition activities in Plant 9
  - Completed building preparation activities in and around Building 69
  - Completed removal of asbestos-containing material in Building 69
  - Continued interior demolition activities in Building 69
  - Decontaminated, sized, segregated and staged/packaged debris from demolition activities at Plant 9
- Miscellaneous Small Structures
  - Submitted D&D Implementation Plan to Agencies April 30, 1998

May 1998

- Enforceable Milestones Completed
  - None

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- Major Work Initiated/Continued/Completed
  - **Safe Shutdown**
    - Non-Nuclear Facilities
      - Performed various utility disconnects
      - Continued removal of transite at the old Cooling Tower
      - Continued removal of equipment from Tank Farm Complex
    - Plant 2/3
      - Continued holdup material removal in selected areas
      - Continued asbestos and biohazard removal
    - Plant 6
      - Continued utility disconnects
      - Continued biohazard removal
  - D&D
    - Boiler Plant/Water Plant
      - Size-reduced and containerized Precipitator breeching and support steel
      - Prepared structural steel surrounding two northern boilers for demolition
      - Continued removal of transite and asbestos-insulated piping at old Cooling Tower
      - Sized, segregated, and containerized debris from demolition activities
    - Thorium/Plant 9 Complex
      - Continued interior dismantlement and asbestos abatement in Plant 9
      - Continued removal of equipment, acid brick, interior transite and concrete in Plant 9
      - Continued interior demolition activities, asbestos abatement and acid brick removal in Building 69
      - Began removal of exterior components, such as pipe bridges and conduit, in Building 78
      - Initiated roof removal on Building 32
      - Decontaminated, sized, segregated and staged/packaged debris from demolition activities
    - Miscellaneous Small Structures
      - Began processing Task Orders for cleanup of area around Building 38 in preparation for D&D
    - Recycling Supplemental Environmental Projects
      - Decontaminated/free-released 53 tons of rail as of May 29, 1998
      - Inspected/prepared containers of shredded copper for shipment to recycling vendor

- Sewage Treatment Plant Complex
  - Responses to comments from USEPA and OEPA on the Draft Implementation Plan submitted May 26, 1998
  - Site support subcontractor initiated mobilization on May 26, 1998

June 1998

- Enforceable Milestones Completed
  - None

- Major Work Initiated/Continued/Completed
  - **Safe Shutdown**
    - Non-Nuclear Facilities
      - Performed various utility disconnects
      - Completed work on old Cooling Tower
      - Continued removal of equipment from Tank Farm Complex
    - Plant 2/3
      - Continued holdup material removal
      - Continued asbestos and biohazard removal
    - Plant 6
      - Continued utility disconnects and holdup material removal
      - Sealed roof
      - Sampled ductwork
      - Isolated steam and condensate lines
  - D&D
    - Approval of Implementation Plan for Above-Grade Decontamination and Dismantlement of the Maintenance/Tank Farm Complex was received June 30, 1998
    - Boiler Plant/Water Plant
      - Completed demolition activities in North Bay of Boiler Plant
      - Completed transite removal/asbestos abatement at old Cooling Tower
      - Began dismantling boiler maintenance building
    - Thorium/Plant 9 Complex
      - Completed D&D of Buildings 32A and 32B
      - Completed all exterior transite removal on Buildings 9B and 9D
      - Assembled, tested and modified concrete scabbling unit
      - Continued D&D activities in Buildings 69 and 78
    - Sewage Treatment Plant (STP) Complex

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    - Completed site support subcontractor mobilization
    - Began construction of incinerator enclosure
    - Removed transite panels from loading dock
  - Miscellaneous Small Structures
    - Cleared area around Building 38 in preparation for D&D
  - Recycling Supplemental Environmental Projects
    - Decontaminated/free-released 78 tons of rail as of June 29, 1998
    - Continued preparing containers of shredded copper for shipment to recycling vendor

July 1998 (Anticipated)

- Enforceable Milestones
  - None

- Major Work to be Initiated/Continued/Completed
  - **Safe Shutdown**
    - Continue asbestos removal in Plant 2/3; complete holdup material removal in selected areas
    - Continue biohazard cleanup, holdup material removal and utility disconnects in Plant 6
    - Complete utility disconnects in selected areas of non-nuclear facilities
    - Complete removal of equipment from Tank Farm Complex; begin piping disconnects
  - D&D
    - Boiler Plant/Water Plant
      - Complete demolition of remaining above-grade Boiler Plant structure
      - Demolish and size-reduce old Cooling Tower structure
      - Continue ongoing sizing, segregation, and containerization of debris
    - Thorium/Plant 9 Complex
      - Continue demolition activities in Plant 9, Building 69 and Building 78
      - Complete removal/containerization of non-salvageable equipment in Building 9C
      - Begin/complete floor scabbling activities in various areas of Plant 9
    - STP Complex
      - Complete disgester lid removal plan evaluation; begin removal activities
      - Complete D&D of loading dock structural steel framing
      - Initiate dismantlement of incinerator (Building 39D)
    - Miscellaneous Small Structures
      - Perform D&D of Building 38

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OPERABLE UNIT 4 - SILOS PROJECTS

April 1998

- Enforceable Milestones Completed
  - None

- Major Work Initiated/Continued/Completed
  - **Silos 1 & 2 Project**
    - Held public workshop April 1, 1998, on Accelerated Waste Retrieval (AWR) Project Request for Proposal (RFP)
    - Obtained review of AWR RFP by independent consultants, and began addressing stakeholder, regulatory agency and consultant comments
    - Initiated evaluation of Silos 1 & 2 Proof of Principle Testing RFP proposals
  - **Silo 3 Project**
    - Issued Notice of Availability for Final Explanation of Significant Differences
    - Prepared Draft Remedial Design Work Plan (RDWP); submitted it to DOE for review
    - Submitted revised RFP to DOE for advance notice
    - Continued relocation of equipment and other activities in preparation for Standard Startup Review (SSR) for Small Scale Waste Retrieval

May 1998

- Enforceable Milestones Completed
  - Submitted Draft Silo 3 Remedial Design Work Plan to Agencies on May 6, 1998

- Major Work Initiated/Continued/Completed
  - **Silos 1 & 2 Project**
    - Addressed comments from stakeholders, regulatory agencies and independent consultants regarding Accelerated Waste Retrieval (AWR) Project Request for Proposal (RFP)
    - Issued AWR Project RFP for bid May 26, 1998
    - Completed evaluation of Silos 1 & 2 Proof-of-Principle Testing RFP proposals

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- **Silo 3 Project**
  - Issued Silo 3 RFP on May 6, 1998; conducted pre-proposal conference May 27-28, 1998
  - Completed preparations for Small Scale Waste Retrieval Project Standard Start-up Review (SSR)

June 1998

- Enforceable Milestones Completed
  - Awarded all four Silos 1 and 2 Proof-of-Principle Testing contracts on June 3, 1998, in advance of August 10, 1998 milestone

- Major Work Initiated/Continued/Completed
  - **Silos 1 & 2 Project**
    - Held June 23, 1998, pre-proposal conference for interested contractors regarding Accelerated Waste Retrieval (AWR) Project Request for Proposal (RFP)
  - **Silo 3 Project**
    - Received approval from Agencies on Silo 3 Remedial Design Work Plan June 17, 1998
    - Issued responses to questions received from interested contractors during Silo 3 RFP pre-proposal conference
    - Successfully completed Standard Startup Review (SSR) for Small Scale Waste Retrieval Project and initiated operations

July 1998 (Anticipated)

- Enforceable Milestones
  - None

- Major Work to be Initiated/Continued/Completed
  - **Silos 1 & 2 Project**
    - Receive and initiate review of Work Plan and Quality Assurance/Quality Control Plan submittals from Proof-of-Principle Testing contractors
  - **Silo 3 Project**
    - Continue retrieval of samples for use in treatability testing

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OPERABLE UNIT 5

April 1998

- Enforceable Milestones Completed
  - **Aquifer Restoration/Wastewater Project (ARWWP)**
    - Submitted monthly National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR) for March 1998 to OEPA April 13, 1998
    - Successfully completed SSR April 22, 1998, and commenced operation of AWWT Facility Expansion on April 30, 1998
    - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
  - **Soil Characterization and Excavation Project (SCEP)**
    - Submitted Revised Work Plan for On-Property Public Access Habitat Area to Agencies April 16, 1998
- Major Work Initiated/Continued/Completed
  - ARWWP
    - Completed construction of new Sewage Treatment Plant
    - Submitted Draft Final South Field Extraction System/South Plume Optimization Start-Up Monitoring Plan to Agencies
    - Received OEPA approval of Final Re-Injection Demonstration Test Plan
    - Met with Agencies April 8, 1998, for groundwater technical information exchange; ARWWP plans to hold this type of meeting on a quarterly basis, concurrent with submittal of Integrated Environmental Monitoring Plan update reports
  - SCEP
    - Substantially completed field implementation of Area 2 Phase I *(Southern Waste Units)* Site Preparation package, including construction activities, hydrostatic testing of piping systems, and installation of fencing and gates
    - Completed following sampling activities:
      - Additional Waste Acceptance Criteria (WAC) attainment sampling of Area 1 Phase I *(OSDF Cell 1 Footprint and Nearby Areas)* West Soil Stockpile
      - Above-WAC and Firing Range sampling in Area 2 Phase I
    - Held meeting with Natural Resource Trustees (representing DOE, Office of Attorney General/OEPA, Department of Interior, and U.S. Fish & Wildlife Service) on April 16, 1998; trustees reached tentative settlement of all natural resource liabilities, including State of Ohio lawsuit against DOE for natural resource damages

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- Initiated Phase I wetland mitigation design
- Sponsored training session April 27 and 28, 1998, on bioengineered land stabilization; conducted walkdown of selected areas of Paddys Run to determine which ones are likely to require future embankment stabilization
- Published solicitation in Commerce Business Daily for potential sources sought to perform lead-contaminated soil treatability work in former Trap Range Area of Area 1 Phase II *(Southern Portion of East Field)*
- Submitted following items to Agencies:
  - Draft Final Area 2 Phase I Integrated Remedial Design Package, with responses to comments, revised Excavation Package drawings, etc. --- April 7, 1998
  - Responses to OEPA comments on Draft Natural Resource Impact Assessment and Draft Natural Resource Restoration Plan --- April 8, 1998 (also submitted to Natural Resource Trustees)
  - Draft Final Sitewide Excavation Plan --- April 17, 1998
  - North Access Road WAC Attainment Data Summary --- April 24, 1998
  - Responses to comments from Agencies on Area 1 Phase I Certification Report --- April 27, 1998
  - Revised Radiation Tracking System Applicability Study --- April 30, 1998
  - Draft Certification Report for Area 1 Phase II - Sector 1, Sector 2a and Conveyance Ditch --- April 30, 1998

May 1998

- Enforceable Milestones Completed
  - **Aquifer Restoration/Wastewater Project (ARWWP)**
    - Submitted monthly National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR) for April 1998 to OEPA May 13, 1998
    - Submitted NPDES Noncompliance Report to OEPA May 13, 1998
    - Transmitted Integrated Site Environmental Report to Agencies May 29, 1998, in advance of actual milestone date of June 1, 1998
    - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River, as required by OU5 Record of Decision
  - **Soil Characterization and Excavation Project (SCEP)**
    - None

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- Major Work Initiated/Continued/Completed
  - ARWWP
    - Successfully completed Standard Start-up Review (SSR) of new Sewage Treatment Plant and commenced operations May 8, 1998
    - Completed construction on South Field Extraction System/South Plume Optimization System/Injection Demonstration System combined projects
    - Finalized 1997 Integrated Site Environmental Report
    - Received approval of South Field Extraction System/South Plume Optimization Start-Up Monitoring Plan from Agencies
    - Submitted Final Groundwater Restoration Area Verification Sampling Program Summary Report to Agencies
  - SCEP
    - Completed various Area 2 Phase I *(Southern Waste Units)* Site Preparation package construction punch list items
    - Awarded OSDF Phase II/Southern Waste Units excavation subcontract to Petro Environmental Technologies, Inc., May 4, 1998
    - Continued Phase I wetland mitigation design
    - Initiated bioengineering stabilization of Paddys Run Embankment in vicinity of Southern Waste Units retention basins
    - Received USEPA approval of Area 8 Phase I *(13-Acre Tract Centrally located in Portion of Fernald Property West of Paddys Run)* Draft Certification Design Letter; initiated and completed certification sampling
    - Issued letter from DOE to Natural Resource Trustees (NRTs) May 28, 1998, tentatively accepting NRTs proposed settlement of natural resource damage claims
    - Initiated public involvement activities associated with determining final land use of Fernald property
    - Initiated two Ecological Research subprojects *(American Chestnut Restoration* and *Identification & Control of Invasive Species)*
    - Began design of On-Property Public Access Habitat Area
    - Reviewed vendor response to Commerce Business Daily solicitation for lead-contaminated soil treatability work in former Trap Range Area of Area 1 Phase II *(Southern Portion of East Field)*
    - Submitted following documents/plans to Agencies:
      - Area 9 Phase I *(Northern Portion of Area East of Fernald's Eastern Property Line)* Precertification Project Specific Plans (PSPs) for real-time surveys and for physical sampling --- May 11, 1998
      - Area 1 Phase II Site Preparation Precertified for Construction Design Package --- May 12, 1998

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- Revised Area 1 Phase I *(OSDF Cell 1 Footprint and Nearby Areas)* Certification Report, plus formal response to comments document --- May 28, 1998
- Area 1 Phase I Sediment Traps and Wetland Mitigation Certification Design Letter --- May 29, 1998

June 1998

- Enforceable Milestones Completed
  - **Aquifer Restoration/Wastewater Project (ARWWP)**
    - Transmitted Integrated Site Environmental Report to Agencies May 29, 1998, in advance of actual milestone date of June 1, 1998
    - Submitted monthly National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR) for May 1998 to OEPA June 12, 1998
    - Submitted NPDES Noncompliance Report to OEPA June 12, 1998
    - Submitted Integrated Environmental Monitoring Plan Quarterly Update Report to Agencies June 26, 1998
    - Met 20 parts per billion (ppb) monthly average uranium discharge to Great Miami River as required by OU5 Record of Decision
  - **Soil Characterization and Excavation Project (SCEP)**
    - None
- Major Work Initiated/Continued/Completed
  - **ARWWP**
    - Completed SSR and commenced Operable Unit 1 Storm Water Management Pond operations May 29, 1998
    - Completed SSR and commenced Southern Waste Unit Retention Basins Transfer System operations June 11, 1998
    - Submitted New Sewage Treatment Plant Start-Up Report to OEPA June 12, 1998
  - **SCEP**
    - Worked with OSDF Project and Area 2 Phase I *(Southern Waste Units)* subcontractor to mobilize for excavation; included review of required work plans and successful completion of SSR
    - Received approval from Agencies on Area 2 Phase I Integrated Remedial Design Package
    - Continued Phase I wetland mitigation design
    - Continued bioengineering stabilization at Paddys Run Embankment in vicinity of Southern Waste Units retention basins; flooding from severe storms hindered this work and slowed construction progress

- Received laboratory analyses of certification sampling performed for Area 8 Phase I *(13-Acre Tract Centrally located in Portion of Fernald Property West of Paddys Run)* certification efforts; began data validation and statistical analysis
- Continued public involvement activities associated with determining final land use of Fernald property
- Initiated two additional Ecological Research subprojects *(Area 1 Phase I Vegetation Plots* and *Ecological Restoration Case Study)*
- Began preliminary screening of vendor proposals for lead-contaminated soil treatability work in former Trap Range area of Area 1 Phase II *(Southern Portion of East Field)*
- Submitted following documents/plans to Agencies:
  - Draft Final Certification Report for Area 1 Phase II, Sectors 1, 2a, and Conveyance Ditch --- June 16, 1998
  - Addendum to Area 2 Phase I Southern Waste Units Implementation Plan, presenting additional sampling/analysis data --- June 3, 1998
  - Final Work Plan for On-Property Public Access Habitat Area (including Certified for Construction drawings)--- June 23, 1998
  - Final Work Plan for Aesthetic Barrier Project --- June 23, 1998

July 1998 (Anticipated)

- Enforceable Milestones
  - ARWWP
    - Submit monthly NPDES DMR to OEPA
    - Meet 20 ppb average monthly uranium discharge to Great Miami River as required by OU5 Record of Decision
  - SCEP
    - None

- Major Work to be Initiated/Continued/Completed
  - ARWWP
    - Successfully complete SSR for South Field Extraction System; commence operations by July 10, 1998
    - Distribute 1997 Integrated Site Environmental Report to stakeholders
  - SCEP
    - Complete bioengineering stabilization in vicinity of Southern Waste Units retention basins; install natural-fiber matting to encourage growth of vegetation and mitigate erosion

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- Install approximately 100 cubic yards of riprap at upper end of west bank of Paddys Run at tree log installation
- Initiate excavation of Area 2 Phase I Stockpile 5 and Inactive Flyash Pile
- Conduct preliminary screening of proposals for lead-contaminated soil treatability work in former Trap Range; select three vendors
- Submit following items to Agencies:
  - Area 1 Phase II Certified for Construction Site Preparation Design Package (pending receipt/resolution of USEPA comments)
  - Revised Area 1 Phase II Implementation Plan and response to comments document (including Sewage Treatment Plant Excavation Package)
  - Draft Certification Report for Area 8 Phase I
  - Phase I Wetland Mitigation Conceptual Design
  - Revised Natural Resource Impact Assessment and Revised Natural Resource Restoration Plan
  - Final Ecological Research Projects Work Plan
- Issue scope of work for *Ecological Restoration Case Study* to prospective universities
- Continue public involvement activities associated with determination of final land use of Fernald property

WASTE MANAGEMENT

April 1998

- Enforceable Milestones Completed
  - None

- Major Work Initiated/Continued/Completed
  - Low Level Waste
    - Shipping remains suspended due to incidents involving transportation of white metal boxes to Nevada Test Site (NTS)
    - Continued corrective action implementation and path forward evaluation resulting from Leaking White Metal Boxes Type B Investigation Report and associated Corrective Action Plan; Corrective Action Plan remains in review at DOE-Headquarters

- Mixed Waste Treatment Projects
  - Liquid Mixed Waste --- Completed and submitted shipment application for Batch #8 (newly generated low level mixed waste); continued to evaluate newly generated waste streams for bulking into Batches #9 and #10
  - Chemical Treatment Projects
    - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project --- Total of 760 drums treated in project so far; moved selected drummed and boxed waste to Plant 6 for processing under contract extension
    - RCI Solvent Extraction Project --- Completed Phase I decontamination and demobilization of Solvent Dehydrator Unit; initiated isolation of Vacuum Exhaust Heater unit for Phase I work
    - Organic Treatment Project --- Evaluated responses to Commerce Business Daily announcement seeking potential bidders for treatment of mixed wastes formerly under auspices of RCI Solvent Extraction Project; prepared RFP and initiated internal review
  - Hazardous Waste/Recycling Project --- Shipped photochemicals for incineration or recovery through Safety-Kleen, Inc.; shipped fluorescent light tubes for recycling through Recyclights, Inc.
  - Thorium Legacy Waste Stabilization Project --- Issued SSR Implementation Plan

May 1998

- Enforceable Milestones Completed
  - None

- Major Work Initiated/Continued/Completed
  - Low Level Waste
    - Shipping remains suspended due to incidents involving transportation of white metal boxes to Nevada Test Site (NTS)
    - Continued corrective action implementation and path forward evaluation resulting from Leaking White Metal Boxes Type B Investigation Report and associated Corrective Action Plan
  - Mixed Waste Shipping
    - Initiated plan for sampling of approximately 150 drums of mixed waste eligible for shipment to Envirocare of Utah, Inc.

000020

CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/CONSENT DECREE MONTHLY REPORT JUNE 1 THROUGH 30, 1998 AND QUARTERLY REPORT APRIL 1 THROUGH JUNE 30, 1998 INCLUDING EFFLUENT RADIATION REPORTS, RADON REPORTS AND REMOVAL ACTION STATUS REPORT

- Packaging, Certification and Shipping Compliance
  - Successfully completed Standard Start-up Review (SSR) for Movement of Above-Grade Debris to OSDF Transfer Area; initiated operations May 13, 1998
- Mixed Waste Treatment Projects
  - Liquid Mixed Waste --- Transmitted summary of evaluation of potential on-site treatment of Batch #7 (19,000+ gallons mixed waste) vs. off-site treatment at Toxic Substance Control Act (TSCA) Incinerator to OEPA
  - Chemical Treatment Projects
    - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project --- Completed movement of selected drummed and boxed waste to Plant 6; sampled sodium sulfide tank in Plant 6 in support of potential processing under contract extension
    - RCI Solvent Extraction Project --- Completed Phase I (triple rinse) decontamination and demobilization of all Terra-Kleen equipment; continued Phase II (radiological) decontamination
    - Organic Treatment Project --- Began investigation of off-site treatment options; continued RFP preparation/reviews
  - Hazardous Waste/Recycling Project --- Prepared lead-acid batteries for shipment
  - Thorium Legacy Waste Stabilization Project --- Prepared low level waste operations package for review by Technical Review Board

June 1998

- Enforceable Milestones Completed
  - None

- Major Work Initiated/Continued/Completed
  - Low Level Waste
    - Shipping remains suspended due to incidents involving transportation of white metal boxes to Nevada Test Site (NTS); implementation of corrective actions is ongoing
  - Mixed Waste Shipping
    - DOE-FN has instructed FDF to plan and prepare for resumption and shipment of approximately 150 drums of mixed waste to Envirocare of Utah, Inc.
  - Packaging, Certification and Shipping Compliance
    - Hosted Advanced Hazardous Waste Transportation Training (sponsored by DOE National Transportation Program) June 9-11, 1998

- Mixed Waste Treatment Projects
  - Liquid Mixed Waste --- Provided response to Toxic Substance Control Act (TSCA) Incinerator and State of Tennessee concerning BTU value of Batch #7 (19,000+ gallons mixed waste)
  - Chemical Treatment Projects
    - Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project --- Treated 64 drums of waste materials, for a project total of 824 drums
    - Solvent Extraction Project --- Completed Phase II (radiological) decontamination of all equipment; inventoried material to be free-released and began moving it into position for shipment
    - Organic Treatment Project --- Continued investigation of off-site treatment options and preparation/review of RFP
  - Hazardous Waste/Recycling Project --- Completed engineering evaluation for shipment of lead-acid batteries; began incorporating recommendations
  - Thorium Legacy Waste Stabilization Project --- Continuing review of and revisions to subcontractor documents

July 1998 (Anticipated)

- Enforceable Milestone
  None

- Major Work to be Initiated/Continued/Completed
  - Low Level Waste
    - Continue corrective action implementation in support of eventual resumption of shipments to NTS
  - Mixed Waste Shipping
    - Finalize sampling/container requirements for mixed waste identified for shipment to Envirocare of Utah, Inc.
  - Mixed Waste Treatment Projects
    - Liquid Mixed Waste Project --- Ship Batches #7 and #8 (newly generated and recharacterized low level mixed waste) for disposal at TSCA Incinerator, pending final State of Tennessee approval
    - Chemical Treatment Projects
      - NPDS Project --- Begin treatment of sodium sulfide/sodium hydroxide tank under contract extension
      - Solvent Extraction Project --- Dismantle any remaining equipment for disposition
      - Organic Treatment Project --- Finalize RFP; continue investigating offsite treatment options as well as thermal desorption treatment technology

000022

ATTACHMENT A

EFFLUENT RADIATION REPORTS

- Hazardous Waste/Recycling Project --- Ship lead-acid batteries and Site Analytical Laboratory Lab Pack; revise Lab Pack Services and Photochemical Services contracts, both of which expire August 1998
- Thorium Legacy Waste Stabilization Project --- Continue staging low level waste repackaging activities in Building 64 to support eventual shipment of these wastes to NTS, pending resolution of corrective actions stemming from Type B Investigation and from NTS Triennial Audit

000024

EFFLUENT RADIATION REPORT

APRIL 1998

PARSHALL FLUME (Effluent to Great Miami River 1IO00004001)

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	63,821,000	N/A	N/A	N/A	8.04	N/A
Avg (2)	2,127,000	26	26	33.3	0.27	10
Max	3,703,000	100	64	145.0	1.98	49
Min	110,000	8	13	7.8	0.02	3

STORMWATER RETENTION BASIN BYPASSES

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	6,090,000	N/A	N/A	N/A	4.43	N/A
Avg (2)	1,523,000	(3)	(3)	192	1.11	67
Max	1,963,000	(3)	(3)	260	1.81	88
Min	651,000	(3)	(3)	133	0.60	45

STORMWATER RETENTION BASIN OVERFLOWS

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	1,394,000	N/A	N/A	N/A	0.90	N/A
Avg (2)	1,394,000	150	74	171	0.90	58
Max	1,394,000	150	74	171	0.90	58
Min	1,394,000	150	74	171	0.90	58

(1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.

(2) Average values presented are flow-weighted.

(3) Analysis not requested.

(4) Concentration calculated from monthly average of individual wells.

SOUTH PLUME WELLFIELD

	Flow (gallons)	Total U (ug/l)	Total U (kg)
Total	27,889,000	N/A	2.02
Avg (2)	930,000	(4)	0.07
Max	2,786,000	(4)	0.22
Min	0	(4)	0.00

STORMWATER RUNOFF TO PADDY'S RUN

Precipitation	9.37 in
Total U	26.62 kg

SOUTH FIELD LEACHATE SYSTEM

Quarterly Sampling Required
No Sample Collected this Month

East Sump

Solids	mg/l
Total U	ug/l

West Sump

Solids	mg/l
Total U	ug/l

Total Gallons	30,448

EFFLUENT RADIATION REPORT

MAY 1998

PARSHALL FLUME (Effluent to Great Miami River 1IO00004001)

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	78,793,000	N/A	N/A	N/A	3.05	N/A
Avg (2)	2,542,000	11	16	10.2	0.10	4
Max	3,824,000	33	31	42.8	0.46	14
Min	1,009,000	9	14	4.1	0.04	1

STORMWATER RETENTION BASIN BYPASSES

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	0	N/A	N/A	N/A		
Avg (2)						
Max						
Min						

STORMWATER RETENTION BASIN OVERFLOWS

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	0	N/A	N/A	N/A		
Avg (2)						
Max						
Min						

(1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.

(2) Average values presented are flow-weighted.

(3) Analytical results not yet available.

(4) Concentration calculated from monthly average of individual wells.

SOUTH PLUME WELLFIELD

	Flow (gallons)	Total U (ug/l)	Total U (kg)
Total	41,651,000	N/A	2.80
Avg (2)	1,344,000	(4)	0.09
Max	2,342,000	(4)	0.16
Min	0	(4)	0.00

STORMWATER RUNOFF TO PADDY'S RUN

Precipitation	4.80 in
Total U	13.64 kg

SOUTH FIELD LEACHATE SYSTEM

Quarterly Sampling Required
No Sample Collected This Month

East Sump	
Solids	mg/l
Total U	ug/l

West Sump	
Solids	mg/l
Total U	ug/l

Total Gallons	65,115

EFFLUENT RADIATION REPORT

1594

JUNE 1998

PARSHALL FLUME (Effluent to Great Miami River 1IO000004001)

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	96,028,000	N/A	N/A	N/A	12.05	N/A
Avg (2)	3,201,000	(3)	(3)	33.2	0.40	10
Max	5,417,000	(3)	(3)	121.7	2.50	41
Min	1,236,000	(3)	(3)	3.2	0.04	1

STORMWATER RETENTION BASIN BYPASSES

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total	9,163,000	N/A	N/A	N/A	7.62	N/A
Avg (2)	1,145,000	(3)	(3)	220	0.95	73
Max	1,658,000	(3)	(3)	261	1.64	88
Min	558,000	(3)	(3)	169	0.46	57

STORMWATER RETENTION BASIN OVERFLOWS

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l) (1)
Total		N/A	N/A	N/A		N/A
Avg (2)						
Max						
Min						

(1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.

(2) Average values presented are flow-weighted.

(3) Analysis not requested.

(4) Concentration calculated based on monthly averages of individual wells.

SOUTH PLUME WELLFIELD

	Flow (gallons)	Total U (ug/l)	Total U (kg)
Total	51,241,000	N/A	3.54
Avg (2)	1,708,000	(4)	0.12
Max	2,343,000	(4)	0.16
Min	0	(4)	0.00

STORMWATER RUNOFF TO PADDY'S RUN

Precipitation	8.60 in
Total U	24.43 kg

SOUTH FIELD LEACHATE SYSTEM

Quarterly Sampling Required
No Sample Collected This Month

East Sump	
Solids	mg/l
Total U	ug/l

West Sump	
Solids	mg/l
Total U	ug/l

Total Gallons	166,039

000027

ATTACHMENT B

RADON REPORTS

MONTHLY PROGRESS REPORT

MONTH: APRIL
YEAR: 1998

K-65 SILO REPORT
RADON CONCENTRATIONS

Summary of Continuous Monitoring Results

Report Date: 07/08/98

Daily Statistics	SILO 1 Average	SILO 1 Maximum	SILO 1 Minimum	SILO 1 Std. Dev.	SILO 2 Average	SILO 2 Maximum	SILO 2 Minimum	SILO 2 Std. Dev.
04/01/98	1.06E+007	1.08E+007	1.02E+007	1.71E+005	7.38E+006	7.74E+006	6.55E+006	3.25E+005
04/02/98	1.04E+007	1.09E+007	8.76E+003	7.15E+005	7.39E+006	7.68E+006	-1.23E+005	4.96E+005
04/03/98	1.06E+007	1.08E+007	1.02E+007	1.70E+005	7.54E+006	7.78E+006	6.83E+006	1.91E+005
04/04/98	1.06E+007	1.09E+007	1.03E+007	1.74E+005	7.66E+006	7.82E+006	7.42E+006	1.19E+005
04/05/98	1:03E+007	1.09E+007	9.78E+006	4.05E+005	7.55E+006	7.79E+006	7.32E+006	1.35E+005
04/06/98	1.03E+007	1.10E+007	9.59E+006	4.96E+005	7.56E+006	7.84E+006	7.24E+006	1.89E+005
04/07/98	1.04E+007	1.07E+007	9.15E+006	2.04E+005	7.61E+006	7.84E+006	6.78E+006	1.27E+005
04/08/98	1.01E+007	1.05E+007	-8.30E+002	9.15E+005	7.34E+006	7.65E+006	-1.24E+005	6.69E+005
04/09/98	1.08E+007	1.10E+007	1.05E+007	1.58E+005	7.68E+006	7.85E+006	7.53E+006	8.69E+004
04/10/98	1.04E+007	1.09E+007	8.18E+006	3.52E+005	7.55E+006	7.85E+006	5.87E+006	2.53E+005
04/11/98	1.00E+007	1.06E+007	9.47E+006	3.97E+005	7.45E+006	7.70E+006	7.18E+006	1.23E+005
04/12/98	9.89E+006	1.05E+007	9.36E+006	3.78E+005	7.49E+006	7.74E+006	7.25E+006	1.35E+005
04/13/98	9.95E+006	1.03E+007	4.90E+006	4.59E+005	7.36E+006	7.70E+006	3.64E+006	3.79E+005
04/14/98	1.04E+007	1.10E+007	1.12E+004	1.20E+006	8.09E+006	8.99E+006	-1.23E+005	1.12E+006
04/15/98	1.08E+007	1.11E+007	1.05E+007	2.03E+005	8.64E+006	8.84E+006	7.62E+006	1.22E+005
04/16/98	1.07E+007	1.11E+007	-1.04E+006	7.35E+005	8.56E+006	8.75E+006	1.48E+006	4.39E+005
04/17/98	1.07E+007	1.11E+007	8.22E+006	3.26E+005	8.64E+006	8.90E+006	3.31E+006	3.57E+005
04/18/98	1.06E+007	1.10E+007	1.03E+007	2.26E+005	8.68E+006	8.89E+006	8.39E+006	1.01E+005
04/19/98	1.07E+007	1.09E+007	1.06E+007	7.49E+004	8.83E+006	8.90E+006	8.62E+006	4.20E+004
04/20/98	1.05E+007	1.11E+007	2.30E+006	6.25E+005	8.73E+006	8.98E+006	3.51E+006	3.47E+005
04/21/98	1.06E+007	1.10E+007	8.44E+006	3.38E+005	8.81E+006	9.01E+006	7.36E+006	1.48E+005
04/22/98	1.06E+007	1.09E+007	1.02E+007	1.93E+005	8.87E+006	9.05E+006	8.68E+006	1.06E+005
04/23/98	1.05E+007	1.09E+007	9.60E+006	3.38E+005	8.74E+006	9.10E+006	6.49E+006	4.54E+005
04/24/98	1.06E+007	1.09E+007	8.00E+006	2.77E+005	8.65E+006	8.85E+006	6.96E+006	1.81E+005
04/25/98	1.08E+007	1.12E+007	1.02E+007	2.73E+005	8.72E+006	8.87E+006	8.39E+006	1.34E+005
04/26/98	1.09E+007	1.12E+007	1.06E+007	1.76E+005	8.66E+006	9.04E+006	7.55E+006	2.22E+005
04/27/98	1.09E+007	1.12E+007	1.05E+007	2.22E+005	8.64E+006	9.06E+006	7.99E+006	3.21E+005
04/28/98	1.05E+007	1.10E+007	1.96E+006	6.03E+005	8.45E+006	8.85E+006	4.84E+006	2.65E+005
04/29/98	1.04E+007	1.05E+007	1.02E+007	1.01E+005	8.44E+006	8.60E+006	8.13E+006	9.99E+004
04/30/98	1.05E+007	1.07E+007	1.03E+007	1.01E+005	8.54E+006	8.63E+006	8.36E+006	6.90E+004

Headspace Grab Sample Results

Date:	SILO 1	SILO 2
04/08/98	1.25E+007	8.72E+006
04/23/98	1.14E+007	8.92E+006

NOTES: Negative values may occur when input values from the DAQ system are low, due to regression parameters used in determining concentrations. The low value phenomenon is caused by problems associated with the DAQ system (i.e. power surges, equipment failure, grab sampling, etc.).

Frequency of grab sampling was reduced to one every two weeks beginning the second week of March.

STANDARD LEGEND:

1. All values reported in pCi/L.
2. Data reported to three significant digits to remain consistent with the calibration data.
3. Shaded Cells indicate partial/complete data loss due to equipment malfunction.

MONTHLY PROGRESS REPORT

MONTH: MAY
YEAR: 1998

K-65 SILO REPORT
RADON CONCENTRATIONS

Summary of Continuous Monitoring Results — Report Date: 06/23/98

Daily Statistics	SILO 1 Average	SILO 1 Maximum	SILO 1 Minimum	SILO 1 Std. Dev.	SILO 2 Average	SILO 2 Maximum	SILO 2 Minimum	SILO 2 Std. Dev.
05/01/98	1.07E+007	1.09E+007	8.47E+006	1.96E+005	8.56E+006	8.69E+006	7.17E+006	1.23E+005
05/02/98	1.09E+007	1.12E+007	1.05E+007	2.10E+005	8.62E+006	8.78E+006	8.39E+006	1.31E+005
05/03/98	1.09E+007	1.12E+007	1.06E+007	1.80E+005	8.55E+006	8.73E+006	8.01E+006	1.21E+005
05/04/98	1.08E+007	1.12E+007	5.52E+006	4.47E+005	8.53E+006	8.77E+006	7.22E+006	1.88E+005
05/05/98	1.06E+007	1.12E+007	8.60E+006	4.67E+005	8.46E+006	8.75E+006	7.21E+006	2.03E+005
05/06/98	1.06E+007	1.11E+007	9.79E+006	3.68E+005	8.49E+006	8.75E+006	8.02E+006	1.91E+005
05/07/98	1.10E+007	1.11E+007	1.08E+007	1.15E+005	8.62E+006	8.71E+006	8.19E+006	6.94E+004
05/08/98	1.09E+007	1.12E+007	8.37E+006	2.51E+005	8.55E+006	8.71E+006	7.02E+006	1.38E+005
05/09/98	1.08E+007	1.11E+007	1.04E+007	1.99E+005	8.40E+006	8.65E+006	8.00E+006	1.50E+005
05/10/98	1.08E+007	1.11E+007	1.05E+007	1.94E+005	8.38E+006	8.60E+006	8.01E+006	1.43E+005
05/11/98	1.08E+007	1.12E+007	8.53E+006	3.42E+005	8.48E+006	8.69E+006	7.12E+006	1.64E+005
05/12/98	1.07E+007	1.13E+007	5.95E+006	5.17E+005	8.46E+006	8.81E+006	1.25E+006	6.36E+005
05/13/98	1.07E+007	1.12E+007	1.01E+007	3.99E+005	8.44E+006	8.74E+006	7.93E+006	1.71E+005
05/14/98	1.05E+007	1.12E+007	9.86E+006	4.66E+005	8.49E+006	8.76E+006	8.21E+006	1.71E+005
05/15/98	1.08E+007	1.14E+007	8.44E+006	4.44E+005	8.60E+006	8.84E+006	7.12E+006	1.89E+005
05/16/98	1.09E+007	1.14E+007	1.05E+007	2.48E+005	8.68E+006	8.93E+006	8.37E+006	1.20E+005
05/17/98	1.10E+007	1.16E+007	1.04E+007	4.46E+005	8.76E+006	9.09E+006	8.37E+006	1.72E+005
05/18/98	1.10E+007	1.17E+007	5.45E+005	9.12E+005	8.77E+006	9.17E+006	1.25E+006	8.52E+005
05/19/98	1.12E+007	1.18E+007	1.05E+007	4.12E+005	8.86E+006	9.20E+006	7.23E+006	2.27E+005
05/20/98	1.09E+007	1.17E+007	-1.18E+006	2.27E+006	8.58E+006	9.18E+006	1.25E+006	1.38E+006
05/21/98	1.17E+007	1.21E+007	1.12E+007	2.44E+005	8.78E+006	8.97E+006	8.44E+006	1.12E+005
05/22/98	1.20E+007	1.24E+007	9.63E+006	2.20E+005	8.81E+006	9.13E+006	7.25E+006	2.77E+005
05/23/98	1.20E+007	1.22E+007	8.38E+004	7.12E+005	8.99E+006	9.13E+006	4.20E+006	2.99E+005
05/24/98	1.15E+007	1.20E+007	1.07E+007	3.61E+005	8.75E+006	8.98E+006	8.36E+006	1.85E+005
05/25/98	1.12E+007	1.16E+007	8.46E+006	2.86E+005	8.69E+006	8.84E+006	7.04E+006	1.38E+005
05/26/98	1.12E+007	1.17E+007	-1.17E+006	1.02E+006	8.58E+006	8.86E+006	1.25E+006	5.93E+005
05/27/98	1.11E+007	1.17E+007	1.05E+007	4.18E+005	8.59E+006	8.84E+006	8.31E+006	1.48E+005
05/28/98	1.12E+007	1.16E+007	1.06E+007	3.69E+005	8.66E+006	8.90E+006	8.31E+006	1.76E+005
05/29/98	1.12E+007	1.21E+007	9.01E+006	4.40E+005	8.75E+006	9.32E+006	7.35E+006	2.01E+005
05/30/98	1.11E+007	1.16E+007	1.58E+006	6.55E+005	8.74E+006	9.00E+006	2.92E+006	3.82E+005
05/31/98	1.15E+007	1.17E+007	1.13E+007	1.19E+005	8.71E+006	9.01E+006	6.36E+006	2.77E+005

Headspace Grab Sample Results

Date:	SILO 1	SILO 2
05/06/98	1.15E+007	8.58E+006
05/20/98	1.23E+007	8.79E+006

NOTES: Negative values may occur when input values from the DAQ system are low, due to regression parameters used in determining concentrations. The low value phenomenon is caused by problems associated with the DAQ system (i.e. power surges, equipment failure, grab sampling, etc.).

Frequency of grab sampling was reduced to one every two weeks beginning the second week of March.

STANDARD LEGEND:

1. All values reported in pCi/L.
2. Data reported to three significant digits to remain consistent with the calibration data.
3. Shaded Cells indicate partial/complete data loss due to equipment malfunction.

MONTHLY PROGRESS REPORT

MONTH: JUNE
YEAR: 1998

K-65 SILO REPORT
RADON CONCENTRATIONS

Summary of Continuous Monitoring Results

Report Date: 07/09/98

Daily Statistics	SILO 1 Average	SILO 1 Maximum	SILO 1 Minimum	SILO 1 Std. Dev.	SILO 2 Average	SILO 2 Maximum	SILO 2 Minimum	SILO 2 Std. Dev.
06/01/98	1.16E+007	1.21E+007	1.09E+007	3.74E+005	8.88E+006	9.14E+006	8.62E+006	1.57E+005
06/02/98	1.16E+007	1.22E+007	-1.17E+006	1.04E+006	8.74E+006	9.20E+006	5.98E+006	3.58E+005
06/03/98	1.18E+007	1.21E+007	1.13E+007	2.73E+005	8.78E+006	9.11E+006	5.28E+006	3.53E+005
06/04/98	1.18E+007	1.21E+007	1.14E+007	2.15E+005	8.87E+006	9.11E+006	8.32E+006	1.46E+005
06/05/98	1.19E+007	1.21E+007	1.17E+007	9.89E+004	9.05E+006	9.17E+006	8.21E+006	1.06E+005
06/06/98	1.15E+007	1.21E+007	9.34E+006	3.93E+005	8.97E+006	9.25E+006	7.59E+006	1.72E+005
06/07/98	1.14E+007	1.21E+007	1.10E+007	3.91E+005	8.98E+006	9.23E+006	8.64E+006	1.60E+005
06/08/98	1.14E+007	1.18E+007	1.10E+007	2.41E+005	9.00E+006	9.20E+006	8.66E+006	1.23E+005
06/09/98	1.13E+007	1.17E+007	8.48E+006	3.04E+005	9.01E+006	9.16E+006	7.29E+006	1.61E+005
06/10/98	1.08E+007	1.17E+007	-1.18E+006	2.02E+006	8.46E+006	9.07E+006	1.25E+006	1.20E+006
06/11/98	1.14E+007	1.16E+007	1.11E+007	1.42E+005	8.60E+006	8.71E+006	7.98E+006	7.88E+004
06/12/98	1.12E+007	1.19E+007	6.18E+006	4.13E+005	8.42E+006	8.66E+006	5.29E+006	2.69E+005
06/13/98	1.16E+007	1.18E+007	9.39E+006	2.08E+005	8.51E+006	8.70E+006	7.34E+006	1.68E+005
06/14/98	1.17E+007	1.20E+007	1.12E+007	2.36E+005	8.51E+006	8.90E+006	7.41E+006	1.85E+005
06/15/98	1.18E+007	1.21E+007	1.13E+007	1.92E+005	8.50E+006	8.64E+006	8.29E+006	8.76E+004
06/16/98	1.17E+007	1.19E+007	1.14E+007	1.48E+005	8.46E+006	8.58E+006	8.33E+006	5.54E+004
06/17/98	1.11E+007	1.18E+007	-1.18E+006	1.55E+006	8.25E+006	8.51E+006	1.25E+006	8.68E+005
06/18/98	1.13E+007	1.17E+007	1.08E+007	3.18E+005	8.41E+006	8.55E+006	8.20E+006	7.71E+004
06/19/98	1.15E+007	1.20E+007	1.12E+007	2.40E+005	8.42E+006	8.68E+006	6.28E+006	1.96E+005
06/20/98	1.14E+007	1.20E+007	8.41E+006	4.83E+005	8.40E+006	8.62E+006	6.85E+006	1.45E+005
06/21/98	1.15E+007	1.17E+007	1.10E+007	1.62E+005	8.37E+006	8.48E+006	8.16E+006	6.47E+004
06/22/98	1.14E+007	1.19E+007	2.74E+006	6.88E+005	8.38E+006	8.59E+006	3.61E+006	3.37E+005
06/23/98	1.14E+007	1.19E+007	9.05E+006	4.31E+005	8.43E+006	8.59E+006	7.13E+006	1.57E+005
06/24/98	1.12E+007	1.19E+007	1.06E+007	5.09E+005	8.38E+006	8.64E+006	8.11E+006	1.84E+005
06/25/98	1.14E+007	1.19E+007	1.09E+007	3.60E+005	8.48E+006	8.74E+006	8.12E+006	1.71E+005
06/26/98	1.16E+007	1.20E+007	1.12E+007	2.82E+005	8.56E+006	8.77E+006	8.30E+006	1.53E+005
06/27/98	1.17E+007	1.21E+007	9.14E+006	3.20E+005	8.61E+006	8.82E+006	7.16E+006	1.70E+005
06/28/98	1.18E+007	1.23E+007	1.13E+007	3.30E+005	8.61E+006	8.80E+006	8.38E+006	1.01E+005
06/29/98	1.18E+007	1.26E+007	-1.18E+006	1.00E+006	8.63E+006	8.89E+006	1.25E+006	5.64E+005
06/30/98	1.22E+007	1.26E+007	9.27E+006	3.30E+005	8.86E+006	9.07E+006	7.16E+006	1.90E+005

Headspace Grab Sample Results

Date:	SILO 1	SILO 2
06/02/98	1.37E+007	9.69E+006
06/17/98	1.20E+007	8.47E+006
06/29/98	1.28E+007	9.70E+006

NOTES: Negative values may occur when input values from the DAQ system are low, due to regression parameters used in determining concentrations. The low value phenomenon is caused by problems associated with the DAQ system (i.e. power surges, equipment failure, grab sampling, etc.).

Frequency of grab sampling was reduced to one every two weeks beginning the second week of March.

STANDARD LEGEND:

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2. Data reported to three significant digits to remain consistent with the calibration data.
3. Shaded Cells indicate partial/complete data loss due to equipment malfunction.

000032

Integrated Environmental Monitoring Plan

Continuous Environmental Radon Monitoring Spreadsheet:

(all values in pCi/l)

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Standard Legend: 1 "(a)" indicates edited data due to erroneous reading.
2 "(b)" indicates data loss due to monitor malfunction.
3 "(c)" indicates programming error in monitor.
4 "(d)" discontinuity due to data downloading.
5 "(e)" indicates edited data due to operation outside manufacturer [illegible]

FENCELINE MONITORING LOCATIONS

Date	Time	AMS02 Uncorrected / Unvalidated Counts	Conc.	AMS02 Corrected / Validated Counts	Conc.	AMS04 Uncorrected / Unvalidated Counts	Conc.	AMS04 Corrected / Validated Counts	Conc.	AMS05 Uncorrected / Unvalidated Counts	Conc.	AMS05 Corrected / Validated Counts	Conc.	AMS06 Uncorrected / Unvalidated Counts	Conc.	AMS06 Corrected / Validated Counts	Conc.	AMS07 Uncorrected / Unvalidated Counts	Conc.	AMS07 Corrected / Validated Counts	Conc.
04/01/98		1023	0.5	159	0.1	1203	0.6	58	0.0	960	0.5	240	0.1	896	0.4	118	0.0	2133	1.1	63	0.0
04/02/98		1152	0.6	288	0.1	1340	0.7	145	0.1	1125	0.6	405	0.2	1099	0.5	221	0.1	2358	1.2	198	0.1
04/03/98		1323	0.7	459	0.2	1791	0.9	596	0.3	1690	0.8	970	0.5	1641	0.7	763	0.3	2938	1.5	778	0.4
04/04/98		1104	0.6	240	0.1	1395	0.7	200	0.1	1164	0.6	444	0.2	1111	0.5	233	0.1	2391	1.2	231	0.1
04/05/98		1592	0.8	728	0.4	1973	1.0	778	0.4	2021	1.0	1301	0.6	2058	0.9	1180	0.5	3761	1.8	1601	0.8
04/06/98		1437	0.8	681	0.4	2051	1.1	856	0.5	2228	1.2	1568	0.8	2222	1.0	1417	0.7	3523	2.0	1633	0.9
04/07/98		1315	0.7	451	0.2	1904	0.9	709	0.3	2155	1.1	1435	0.7	2257	1.0	1379	0.6	3536	1.8	1378	0.7
04/08/98		1114	0.6	250	0.1	1391	0.7	196	0.1	1219	0.6	499	0.2	1767	0.5	389	0.2	2634	1.3	474	0.2
04/09/98		1106	0.6	242	0.1	1388	0.7	193	0.1	1020	0.5	300	0.1	1375	0.6	497	0.2	2237	1.1	77	0.0
04/10/98		1041	0.5	177	0.1	1230	0.6	35	0.0	985	0.5	265	0.1	963	0.4	85	0.0	2163	1.1	3	0.0
04/11/98		1228	0.6	364	0.2	1553	0.7	358	0.2	1415	0.7	695	0.3	1286	0.6	408	0.1	2822	1.3	662	0.3
04/12/98		1440	0.7	576	0.3	1779	0.8	584	0.3	1700	0.8	980	0.5	1869	0.8	991	0.4	3309	1.7	1149	0.6
04/13/98		649	0.6	181	0.2	1199	0.8	352	0.2	1033	0.7	523	0.4	1292	0.6	450	0.2	2853	1.4	693	0.3
04/14/98		0	(b)	0	(b)	1397	0.7	202	0.1	1056	0.5	336	0.2	1170	0.5	292	0.1	2332	1.2	172	0.1
04/15/98		0	(b)	0	(b)	2037	1.0	842	0.4	1980	1.0	1260	0.6	2244	0.9	1366	0.6	3541	1.8	1381	0.7
04/16/98		672	0.5	132	0.1	1380	0.7	235	0.1	1125	0.6	405	0.2	1413	0.6	535	0.2	2255	1.1	95	0.0
04/17/98		975	0.5	111	0.1	1302	0.6	107	0.1	941	0.5	221	0.1	927	0.4	49	0.0	2097	1.1	-63	0.0
04/18/98		1229	0.6	365	0.2	1530	0.7	335	0.2	1221	0.6	501	0.3	1734	0.7	856	0.4	2682	1.3	522	0.3
04/19/98		1053	0.5	189	0.1	1420	0.7	225	0.1	1119	0.6	399	0.2	1089	0.5	211	0.1	2241	1.1	81	0.0
04/20/98		1197	0.6	333	0.2	1502	0.7	307	0.1	1262	0.6	542	0.3	1338	0.6	460	0.2	2738	1.4	578	0.3
04/21/98		1357	0.7	529	0.3	1787	0.9	642	0.3	1554	0.8	864	0.4	1603	0.7	761	0.3	2817	1.5	747	0.4
04/22/98		1316	0.7	452	0.2	1458	0.7	263	0.1	1255	0.6	535	0.3	1155	0.5	277	0.1	2413	1.2	253	0.1
04/23/98		1302	0.7	438	0.2	1596	0.8	401	0.2	1356	0.7	636	0.3	1369	0.6	491	0.2	2805	1.4	645	0.3
04/24/98		1340	0.7	476	0.2	1624	0.8	429	0.2	1605	0.8	885	0.4	1755	0.7	877	0.4	3293	1.7	1133	0.6
04/25/98		1398	0.7	534	0.3	1798	0.9	603	0.3	1919	0.9	1199	0.6	1761	0.7	883	0.4	3475	1.7	1315	0.7
04/26/98		1135	0.6	271	0.1	1489	0.7	294	0.1	1144	0.6	424	0.2	1116	0.5	238	0.1	2363	1.1	203	0.1
04/27/98		992	0.5	164	0.1	1341	0.7	146	0.1	920	0.5	230	0.1	1035	0.5	193	0.1	1999	1.0	-71	0.0
04/28/98		1134	0.6	270	0.1	1388	0.7	193	0.1	1017	0.5	297	0.1	1411	0.6	533	0.2	2146	1.1	-14	0.0
04/29/98		1168	0.6	304	0.2	1572	0.8	377	0.2	1503	0.7	783	0.4	1492	0.6	614	0.3	2796	1.4	636	0.3
04/30/98		1205	0.6	341	0.2	1486	0.7	291	0.1	1154	0.6	434	0.2	1230	0.5	352	0.1	2357	1.2	197	0.1
Monthly Statistics																					
Average:			0.6		0.2		0.8		0.2		0.7		0.3		0.6		0.2		1.4		0.3
Maximum:			0.8		0.4		1.1		0.5		1.2		0.8		1.0		0.7		2.0		0.9
Minimum:			0.5		0.1		0.6		0.0		0.5		0.1		0.4		0.0		1.0		0.0
Median:			0.6		0.2		0.7		0.1		0.6		0.3		0.6		0.2		1.3		0.2
Std. Dev.:			0.2		0.2		0.2		0.2		0.4		0.4		0.3		0.3		0.5		0.5

K65 AREA PROXIMITY MONITORING LOCATIONS

Date	KNE Uncorrected / Unvalidated Counts	Conc.	KNE Corrected / Validated Counts	Conc.	KNW Uncorrected / Unvalidated Counts	Conc.	KNW Corrected / Validated Counts	Conc.	KSE Uncorrected / Unvalidated Counts	Conc.	KSE Corrected / Validated Counts	Conc.	KSW Uncorrected / Unvalidated Counts	Conc.	KSW Corrected / Validated Counts	Conc.	[illegible] Uncorrected / Unvalidated Counts	Conc.	[illegible] Corrected / Validated Counts	Conc.
04/01/98	4860	2.5	3924	2.0	962	0.5	242	0.1	2357	1.2	773	0.4	1904	1.0	32	0.0	18286	8.9	17206	8.4
04/02/98	5426	2.8	4490	2.3	1676	0.8	808	0.5	4595	2.4	3011	1.6	2713	1.5	919	0.5	8806	4.5	7771	3.9
04/03/98	5493	2.8	4557	2.3	3376	1.7	2512	1.3	6938	3.6	5354	2.8	16692	8.6	14820	7.6	19756	9.6	18676	9.1
04/04/98	3118	1.6	2182	1.1	1310	0.7	446	0.2	3566	1.9	1982	1.0	2615	1.3	743	0.4	5293	2.6	4213	2.0
04/05/98	30898	15.8	29962	15.3	2863	1.5	1999	1.0	24060	12.7	22476	11.8	4498	2.3	2626	1.3	13086	6.4	12006	5.8
04/06/98	28731	14.7	27795	14.2	4262	2.2	3398	1.7	32027	16.8	30443	16.0	10208	5.2	8336	4.3	27726	13.5	26646	12.9
04/07/98	11516	6.7	10697	6.2	7984	4.3	7156	3.8	17799	10.2	16347	9.4	17918	10.5	16280	9.6	18881	9.2	17801	8.6
04/08/98	3181	1.6	2245	1.1	7832	4.0	6968	3.5	3245	1.7	1661	0.9	8177	4.2	6305	3.2	26847	14.9	25907	14.4
04/09/98	5627	2.9	4691	2.4	8264	4.2	7400	3.8	3457	1.8	1873	1.0	11615	6.0	9743	5.0	10714	5.2	9631	4.7
04/10/98	2243	1.1	1307	0.7	1084	0.6	220	0.1	2946	1.6	1362	0.7	2142	1.1	270	0.1	7722	3.7	6642	3.2
04/11/98	7361	3.8	6425	3.3	2196	1.1	1332	0.7	6665	3.5	5081	2.7	3559	1.8	1687	0.9	9248	4.5	8168	4.0
04/12/98	15863	8.1	14927	7.6	7795	4.0	6931	3.5	14927	7.9	13343	7.0	6284	3.2	4412	2.3	7713	3.7	6633	3.2
04/13/98	8971	4.6	8035	4.1	3323	1.8	2495	1.3	9417	5.0	7833	4.1	4137	2.1	2265	1.2	21127	10.7	[illegible]	10.2
04/14/98	3561	2.3	2820	1.8	1659	1.1	975	0.6	3000	1.9	1680	1.1	1918	1.3	436	0.3	12259	6.0	11179	5.4
04/15/98	17448	8.9	16512	8.4	10537	5.4	9673	4.9	13910	7.3	12326	6.5	12280	6.3	10408	5.4	20343	9.8	19263	9.3
04/16/98	3429	1.8	2493	1.3	7653	3.9	6789	3.5	3850	2.0	2266	1.2	11504	5.9	9632	5.0	32287	15.7	31207	15.2
04/17/98	2485	1.3	1549	0.8	986	0.5	122	0.1	3467	1.8	1883	1.0	2139	1.1	267	0.1	4777	2.3	3697	1.8
04/18/98	13976	7.1	13040	6.7	3150	1.6	2286	1.2	10894	5.7	9310	4.9	12633	6.5	10761	5.5	8575	4.2	7495	3.6
04/19/98	1573	0.8	637	0.3	1608	0.8	744	0.4	2570	1.4	986	0.5	3072	1.6	1200	0.6	15305	7.4	14225	6.9
04/20/98	11565	5.9	10629	5.4	4223	2.3	3395	1.8	9260	4.9	7676	4.0	3591	1.8	1719	0.9	8720	4.2	7640	3.7
04/21/98	33714	18.0	32817	17.5	2736	1.9	2088	1.4	27366	16.5	25980	15.6	6145	3.2	4273	2.2	23046	11.2	21966	10.7
04/22/98	7727	3.9	6791	3.5	2954	1.5	2090	1.1	9357	4.9	7773	4.1	3931	2.0	2059	1.1	18759	9.1	17679	8.6
04/23/98	26407	13.5	25471	13.0	5682	2.9	4818	2.5	17878	9.4	16294	8.6	5543	2.9	3671	1.9	18885	9.2	17805	8.6
04/24/98	24659	12.6	23723	12.1	2422	1.2	1558	0.8	13967	7.4	12383	6.5	3503	1.8	1631	0.8	6455	3.1	5375	2.6
04/25/98	6773	3.5	5837	3.0	7140	3.7	6276	3.2	5015	2.6	3431	1.8	4402	2.3	2530	1.3	10568	5.1	9488	4.6
04/26/98	5749	2.9	4813	2.5	7032	3.6	6168	3.2	2934	1.5	1350	0.7	5132	2.7	3260	1.7	25307	12.4	24227	11.8
04/27/98	1293	0.7	357	0.2	1343	0.7	479	0.2	1560	0.8	24	0.0	8213	4.2	6341	3.3	1632	0.8	552	0.3
04/28/98	1260	0.7	363	0.2	2230	1.1	1366	0.7	1602	0.8	18	0.0	12506	6.7	10712	5.8	1642	0.8	607	0.3
04/29/98	7589	3.9	6653	3.4	4328	2.2	3464	1.8	7081	3.7	5497	2.9	7892	4.1	6020	3.1	32335	15.7	31255	15.2
04/30/98	3405	1.7	2469	1.3	11429	5.8	10565	5.4	2630	1.4	1046	0.5	7883	4.1	6011	3.1	38229	18.6	37149	18.0
Monthly Statistics																				
Average:		5.3		4.8		2.2		1.8		4.8		4.0		3.6		2.6		7.8		7.2
Maximum:		18.0		17.5		5.8		5.4		16.8		16.0		10.5		9.6		18.6		18.0
Minimum:		0.7		0.2		0.5		0.1		0.8		0.0		1.0		0.0		0.8		0.3
Median:		3.2		2.7		1.7		1.3		3.1		2.2		2.8		1.8		6.9		6.4
Std. Dev.:		9.5		9.5		3.0		3.0		8.6		8.6		4.7		4.7		9.2		9.2

Integrated Environmental Monitoring Plan
Continuous Environmental Radon Monitoring Spreadsheet:
(all values in pCi/L)

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Standard Legend:
1 "(a)" indicates edited data due to erroneous readings
2 "(b)" indicates data loss due to monitor malfunction
3 "(c)" indicates programming error in monitor
4 "(d)" discontinuity due to data downloading
5 "(e)" indicates edited data due to operation outside manufacturer's temp. specs

OTHER/PROJECT MONITORING LOCATIONS

Date	Time	AMS11 Uncorrected / Unvalidated Counts	AMS11 Uncorrected / Unvalidated Conc.	AMS11 Corrected / Validated Counts	AMS11 Corrected / Validated Conc	PIL01 Uncorrected Counts	PIL01 Uncorrected Conc.	PIL01 Corrected Counts	PIL01 Corrected Conc.	PIL5 Uncorrected / Unvalidated Counts	PIL5 Uncorrected / Unvalidated Conc.	PIL5 Corrected / Validated Counts	PIL5 Corrected / Validated Conc.	BAILEY-1 Uncorrected / Unvalidated Counts	BAILEY-1 Uncorrected / Unvalidated Conc.	BAILEY-1 Corrected / Validated Counts	BAILEY-1 Corrected / Validated Conc.	SURGE Uncorrected / Unvalidated Counts	SURGE Uncorrected / Unvalidated Conc	SURGE Corrected / Validated Counts	SURGE Corrected / Validated Conc
04/01/98		1201	0.6	49	0.0	930	0.5	-107	-0.1	1568	0.8	272	0.1	781	0.4	91	0.0	1147	0.6	283	0.1
04/02/98		1416	0.7	264	0.1	860	0.5	-34	-0.0	1616	0.8	374	0.2	1058	0.5	338	0.2	1208	0.7	380	0.2
04/03/98		1598	0.8	446	0.2	1351	0.7	314	0.2	1988	1.0	692	0.4	1571	0.8	801	0.4	1599	0.8	735	0.4
04/04/98		1307	0.6	155	0.1	1113	0.6	76	0.0	1535	0.8	239	0.1	971	0.5	251	0.1	1050	0.5	186	0.1
04/05/98		1707	0.8	555	0.3	1965	1.0	928	0.5	2241	1.1	945	0.5	2456	1.2	1736	0.9	2094	1.1	1230	0.6
04/06/98		1595	0.9	587	0.3	2916	1.5	1879	1.0	2852	1.4	1556	0.8	2448	1.4	1818	1.0	2669	1.4	1805	0.9
04/07/98		2066	1.0	914	0.5	1601	0.9	651	0.4	2059	1.1	871	0.5	2602	1.3	1882	0.9	2011	1.1	1219	0.7
04/08/98		1328	0.7	176	0.1	1052	0.5	15	0.0	1745	0.9	449	0.2	838	0.4	118	0.1	1182	0.6	318	0.2
04/09/98		1237	0.6	85	0.0	1002	0.5	-35	-0.0	1554	0.8	258	0.1	801	0.4	81	0.0	1269	0.7	405	0.2
04/10/98		1168	0.6	16	0.0	996	0.5	-41	-0.0	1272	0.6	-24	-0.0	790	0.4	70	0.0	925	0.5	61	0.0
04/11/98		1478	0.7	326	0.2	1302	0.7	265	0.1	1663	0.8	367	0.2	1340	0.7	620	0.3	1418	0.7	554	0.3
04/12/98		1603	0.8	451	0.2	1644	0.8	607	0.3	2130	1.1	834	0.4	2176	1.1	1456	0.7	1752	0.9	888	0.5
04/13/98		1502	0.7	350	0.2	1318	0.7	324	0.2	1826	0.9	530	0.3	1399	0.7	679	0.3	1317	0.7	489	0.3
04/14/98		1427	0.7	275	0.1	1059	0.5	22	0.0	1475	0.7	179	0.1	917	0.5	197	0.1	1142	0.6	278	0.1
04/15/98		1943	1.0	791	0.4	1806	0.9	769	0.4	2328	1.2	1033	0.5	2617	1.3	1897	0.9	2078	1.1	1214	0.6
04/16/98		1284	0.6	132	0.1	1032	0.5	-5	0.0	1528	0.8	232	0.1	897	0.4	177	0.1	1191	0.6	327	0.2
04/17/98		1136	0.6	-16	-0.0	961	0.5	-76	-0.0	1322	0.7	26	0.0	717	0.4	-3	0.0	890	0.5	26	0.0
04/18/98		1397	0.7	245	0.1	1230	0.6	193	0.1	1534	0.8	238	0.1	1427	0.7	707	0.3	1343	0.7	479	0.2
04/19/98		1249	0.6	97	0.0	986	0.5	-51	-0.0	1393	0.7	97	0.1	788	0.4	68	0.0	955	0.5	91	0.0
04/20/98		1440	0.7	288	0.1	1317	0.7	280	0.1	1674	0.9	378	0.2	1320	0.7	600	0.3	1388	0.7	524	0.3
04/21/98		1648	0.9	544	0.3	1675	0.9	638	0.3	1980	1.1	738	0.4	2352	1.2	1632	0.8	1718	1.0	926	0.5
04/22/98		1298	0.6	146	0.1	1209	0.6	172	0.1	1595	0.8	299	0.2	1151	0.6	431	0.2	1333	0.7	469	0.2
04/23/98		1524	0.8	372	0.2	1433	0.7	396	0.2	1779	0.9	483	0.2	1576	0.8	856	0.4	1891	1.0	1027	0.5
04/24/98		1596	0.8	444	0.0	1945	1.0	908	0.5	2201	1.1	905	0.5	1896	1.0	1176	0.4	1985	1.0	1121	0.6
04/25/98		1689	0.9	537	0.3	1583	0.8	546	0.3	2185	1.1	889	0.5	1835	0.9	1115	0.5	2019	1.1	1155	0.6
04/26/98		1331	0.6	179	0.1	1037	0.5	0	0.0	1616	0.8	320	0.2	950	0.5	230	0.1	1319	0.7	455	0.2
04/27/98		1148	0.6	-4	0.0	826	0.4	-211	-0.1	1286	0.6	-10	0.0	679	0.3	-91	0.0	919	0.5	55	0.0
04/28/98		1201	0.6	49	0.0	918	0.5	-119	-0.1	1332	0.7	90	0.0	735	0.4	15	0.0	978	0.5	114	0.1
04/29/98		1612	0.8	460	0.2	1285	0.6	248	0.1	1691	0.9	395	0.2	1388	0.7	668	0.3	1397	0.7	533	0.3
04/30/98		1276	0.6	124	0.1	1121	0.6	84	0.0	1542	0.8	246	0.1	1005	0.5	285	0.1	1110	0.6	246	0.1
Monthly Statistics																					
Average:			0.7		0.1		0.7		0.1		0.9		0.2		0.7		0.3		0.8		0.3
Maximum			1.0		0.5		1.5		1.0		1.4		0.8		1.4		1.0		1.4		0.9
Minimum			0.6		0.0		0.4		-0.1		0.6		0.0		0.3		0.0		0.5		0.0
Median			0.7		0.1		0.6		0.1		0.8		0.2		0.6		0.3		0.7		0.2
Std. Dev			0.2		0.2		0.4		0.4		0.4		0.4		0.6		0.6		0.5		0.5

Date	Time	I-28 Uncorrected / Unvalidated Counts	I-28 Uncorrected / Unvalidated Conc.	I-28 Corrected / Validated Counts	I-28 Corrected / Validated Conc.	WP17a Uncorrected / Unvalidated Counts	WP17a Uncorrected / Unvalidated Conc.	WP17a Corrected / Validated Counts	WP17a Corrected / Validated Conc.	BKGD01 (AMS12) Uncorrected / Unvalidated Counts	BKGD01 (AMS12) Uncorrected / Unvalidated Conc.	BKGD01 (AMS12) Corrected / Validated Counts	BKGD01 (AMS12) Corrected / Validated Conc.	BKGD02 (AMS13) Uncorrected / Unvalidated Counts	BKGD02 (AMS13) Uncorrected / Unvalidated Conc	BKGD02 (AMS13) Corrected / Validated Counts	BKGD02 (AMS13) Corrected / Validated Conc
04/01/98		3015	1.6	2007	1.0	1363	0.7	259	0.1	1645	0.8	32	0.0	1028	0.5	279	0.1
04/02/98		2347	1.3	1381	0.7	1632	0.8	480	0.2	1780	0.9	167	0.1	1073	0.5	324	0.2
04/03/98		2537	1.3	1529	0.8	1930	1.0	778	0.4	1936	1.0	323	0.2	1493	0.8	744	0.4
04/04/98		1443	0.7	435	0.2	1513	0.8	361	0.2	1792	0.9	179	0.1	1042	0.5	293	0.1
04/05/98		4760	2.5	3752	1.9	2317	1.2	1165	0.6	1947	0.9	334	0.2	1520	0.8	771	0.4
04/06/98		5978	3.1	4970	2.6	2470	1.3	1366	0.7	2040	1.1	629	0.3	3479	1.9	633	0.4
04/07/98		3551	2.0	2627	1.5	2443	1.2	1291	0.7	1902	0.9	289	0.1	1492	0.8	743	0.4
04/08/98		2680	1.4	1672	0.0	1495	0.8	343	0.2	1805	0.9	192	0.1	1102	0.6	353	0.2
04/09/98		2266	1.2	1258	0.7	1415	0.7	263	0.1	1760	0.9	147	0.1	1047	0.5	298	0.2
04/10/98		1044	0.5	36	0.0	1363	0.7	211	0.1	1641	0.8	28	0.0	973	0.5	224	0.1
04/11/98		2271	1.2	1263	0.7	1692	0.9	540	0.3	1781	0.8	168	0.1	1321	0.7	572	0.3
04/12/98		3146	1.6	2138	1.1	2094	1.1	942	0.5	2071	1.0	458	0.2	1551	0.8	802	0.4
04/13/98		2333	1.2	1325	0.7	1614	0.9	606	0.4	1702	0.9	156	0.1	1141	0.6	423	0.2
04/14/98		2275	1.2	1267	0.7	1298	0.7	146	0.1	1626	0.8	13	0.0	1052	0.5	303	0.2
04/15/98		3151	1.6	2143	1.1	2097	1.1	945	0.5	2193	1.1	580	0.3	1584	0.8	835	0.4
04/16/98		2879	1.5	1871	1.0	1212	0.6	60	0.0	1755	0.9	142	0.1	1077	0.5	328	0.2
04/17/98		1062	0.6	54	0.0	1079	0.6	73	-0.0	1649	0.8	36	0.0	1027	0.5	278	0.1
04/18/98		2322	1.2	1314	0.7	1391	0.7	239	0.1	1851	0.9	238	0.1	1194	0.6	445	0.2
04/19/98		1004	0.5	-4	0.0	1148	0.6	-4	-0.0	1870	0.9	257	0.1	1005	0.5	256	0.1
04/20/98		2010	1.0	1002	0.5	1489	0.8	337	0.2	1984	1.0	371	0.2	1206	0.6	457	0.2
04/21/98		3458	1.9	2492	1.3	1571	0.8	467	0.2	1865	0.9	319	0.2	1333	0.7	584	0.3
04/22/98		3246	1.7	2238	1.2	1384	0.7	232	0.1	1839	0.9	226	0.1	1069	0.5	320	0.2
04/23/98		5936	3.1	4928	2.6	1543	0.8	391	0.2	1919	0.9	306	0.2	1286	0.7	537	0.3
04/24/98		3384	1.8	2376	1.2	1894	1.0	742	0.4	1957	1.0	344	0.2	1276	0.6	527	0.3
04/25/98		3203	1.7	2195	1.1	2072	1.1	920	0.5	1998	1.0	385	0.2	1399	0.7	650	0.3
04/26/98		4519	2.3	3511	1.8	1334	0.7	182	0.1	2264	1.1	651	0.3	1032	0.7	283	0.2
04/27/98		1007	0.5	-1	0.0	1098	0.6	-6	0.0	1811	0.9	198	0.1	885	0.5	167	0.1
04/28/98		1032	0.5	24	0.0	1114	0.6	-38	-0.0	1989	1.0	376	0.2	968	0.5	219	0.1
04/29/98		2432	1.3	1424	0.7	1564	0.8	412	0.2	1935	0.9	322	0.2	1196	0.6	447	0.2
04/30/98		2143	1.1	1135	0.6	1308	0.7	156	0.1	1744	0.9	131	0.1	1118	0.6	369	0.2
Monthly Statistics																	
Average:			1.4		0.9		0.8		0.2		0.9		0.1		0.7		0.2
Maximum			3.1		2.6		1.3		0.7		1.1		0.3		1.9		0.4
Minimum			0.5		0.0		0.6		-0.0		0.8		0.0		0.5		0.1
Median			1.3		0.8		0.8		0.2		0.9		0.1		0.6		0.2
Std. Dev			1.3		1.3		0.4		0.4		0.2		0.2		0.5		0.2

BACKGROUND MONITORING LOCATIONS

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1594

Integrated Environmental Monitoring Plan

Continuous Environmental Radon Monitoring Spreadsheet: May 1998

(all values in pCi/L)

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Standard Legen 1 "(a)" indicates edited data due to erroneous readings
2 "(b)" indicates data loss due to monitor malfunction
3 "(c)" indicates programming error in monitor
4 "(d)" discontinuity due to data downloading
5 "(e)" indicates edited data due to operation outside manufacturer's temp. specs

FENCELINE MONITORING LOCATIONS

		AMS02				AMS04				AMS05				AMS06				AMS07			
		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated	
Date	Time	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc
05/01/98		1162	0.8	288	0.1	1581	0.7	368	0.2	1822	0.8	802	0.4	1354	0.6	476	0.2	2517	1.3	357	0.2
05/02/98		1171	0.8	307	0.2	1403	0.7	208	0.1	1061	0.6	341	0.2	1031	0.4	163	0.1	2243	1.1	83	0.0
05/03/98		1186	0.6	301	0.2	1518	0.7	321	0.2	1332	0.7	812	0.3	1465	0.6	607	0.3	2586	1.3	405	0.2
05/04/98		803	0.8	181	0.1	1471	0.7	326	0.2	1186	0.8	485	0.2	1177	0.5	335	0.1	2409	1.3	338	0.2
05/05/98		1422	0.7	568	0.3	1812	0.8	417	0.2	1520	0.7	800	0.4	1446	0.8	568	0.2	3034	1.6	874	0.4
05/06/98		1598	0.8	735	0.4	1895	1.0	800	0.4	1827	0.8	1107	0.5	1882	0.8	984	0.4	3338	1.7	1178	0.8
05/07/98		1274	0.6	410	0.2	1823	0.8	428	0.2	1411	0.7	681	0.3	1578	0.7	698	0.3	2548	1.3	388	0.2
05/08/98		1112	0.6	248	0.1	1428	0.7	231	0.1	1077	0.6	367	0.2	992	0.4	114	0.0	2264	1.1	104	0.1
05/09/98		1084	0.6	220	0.1	1355	0.6	160	0.1	1001	0.6	281	0.1	1097	0.6	219	0.1	2078	1.0	82	0.0
05/10/98		1133	0.6	268	0.1	1405	0.7	210	0.1	1130	0.8	410	0.2	1029	0.4	151	0.1	2188	1.1	28	0.0
05/11/98		1184	0.6	320	0.2	1384	0.7	238	0.1	894	0.5	334	0.2	1100	0.5	258	0.1	2298	1.2	228	0.1
05/12/98		1584	0.8	720	0.4	1954	0.8	758	0.4	1609	0.8	889	0.4	1848	0.8	968	0.4	3458	1.7	1298	0.7
05/13/98		31435	16.2	481	0.8	1884	0.8	889	0.3	1853	0.8	833	0.6	1771	0.7	883	0.4	3101	1.8	941	0.5
05/14/98		33623	18.0	410	0.8	2028	1.0	833	0.4	1993	1.0	1273	0.8	1778	0.8	884	0.4	3198	1.8	1468	0.7
05/15/98		1723	0.9	874	0.5	2049	1.0	1083	0.6	2481	1.2	1502	0.7	2137	1.1	1116	0.8	3034	1.6	1738	0.8
05/16/98		1327	0.7	678	0.3	1167	0.6	293	0.2	1783	0.8	626	0.3	1447	0.7	425	0.2	2357	1.2	1081	0.6
05/17/98		1588	0.8	848	0.4	1575	0.8	711	0.4	2302	1.1	1084	0.5	2104	1.0	1082	0.5	3201	1.8	1905	1.0
05/18/98		1908	1.0	1190	0.8	2052	1.1	1168	0.6	2378	1.2	1189	0.6	2137	1.1	1157	0.6	3182	1.7	1820	1.0
05/19/98		1848	0.8	1099	0.8	1989	1.0	1125	0.8	2880	1.3	1442	0.7	2228	1.1	1207	0.6	2852	1.4	1558	0.8
05/20/98		1184	0.6	435	0.2	1178	0.6	312	0.2	1828	0.8	380	0.2	1429	0.7	407	0.2	1818	0.9	522	0.3
05/21/98		1390	0.7	641	0.3	1253	0.7	389	0.2	1778	0.9	540	0.3	1589	0.8	567	0.3	1787	0.9	501	0.3
05/22/98		1541	0.8	782	0.4	1881	0.9	817	0.4	2180	1.0	842	0.4	2092	1.0	1070	0.5	2470	1.2	1174	0.8
05/23/98		1107	0.6	368	0.2	1060	0.5	186	0.1	1370	0.7	132	0.1	1839	1.0	917	0.5	1718	0.8	422	0.2
05/24/98		1118	0.8	388	0.2	1048	0.5	187	0.1	1464	0.7	228	0.1	1511	0.8	488	0.2	1728	0.8	432	0.2
05/25/98		1122	0.6	373	0.2	972	0.5	108	0.1	1355	0.7	117	0.1	1307	0.6	285	0.1	1883	0.9	387	0.2
05/26/98		1208	0.6	458	0.2	1184	0.6	358	0.2	1589	0.8	351	0.2	1324	0.7	428	0.2	1814	1.0	672	0.3
05/27/98		1424	0.7	876	0.3	1408	0.7	542	0.3	1900	0.9	882	0.3	1559	0.8	537	0.3	2130	1.1	834	0.4
05/28/98		1842	0.8	893	0.5	1498	0.8	634	0.3	1928	0.9	890	0.3	1767	0.9	735	0.4	2388	1.2	1070	0.5
05/29/98		1888	0.9	940	0.6	1580	0.8	898	0.4	2107	1.0	888	0.4	1991	1.0	868	0.6	2408	1.2	1113	0.8
05/30/98		1343	0.7	584	0.3	1367	0.7	483	0.3	1702	0.8	484	0.2	1471	0.7	449	0.2	1918	1.0	622	0.3
05/31/98		1248	0.6	600	0.2	1118	0.6	254	0.1	1608	0.7	270	0.1	1381	0.7	358	0.2	1694	0.8	388	0.2
Monthly Statistics																					
Average:			1.7		0.3		0.8		0.2		0.8		0.3		0.7		0.3		1.2		0.4
Maximum:			18.0		0.8		1.1		0.8		1.3		0.7		1.1		0.6		1.7		1.0
Minimum:			0.8		0.1		0.5		0.1		0.5		0.1		0.4		0.0		0.8		0.0
Median:			0.7		0.3		0.7		0.2		0.8		0.3		0.7		0.3		1.2		0.3
Std Dev:			7.8		0.3		0.3		0.3		0.4		0.4		0.4		0.3		0.5		0.5

K65 AREA PROXIMITY MONITORING LOCATIONS

	KNE				KNW				KSE				KSW				KTOP			
	Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated	
Date	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc	Counts	Conc
05/01/98	18111	8.2	15175	7.7	7350	7.2	8488	8.8	12129	8.4	10545	5.8	7434	4.9	6682	3.4	39939	20.8	38850	20.2
05/02/98	7382	3.8	6448	3.3	1417	0.7	663	0.3	4668	2.8	3284	1.7	2407	1.3	826	0.3	28804	14.0	27824	13.5
05/03/98	29116	14.9	28179	14.4	6377	3.2	5613	2.8	12321	6.6	10737	5.7	9641	6.0	7789	4.0	40281	18.8	39211	18.0
05/04/98	8837	5.3	8040	4.8	3316	1.8	2487	1.3	7113	3.7	6628	2.8	4586	2.3	2694	1.4	14165	7.2	13120	6.8
05/05/98	15887	8.1	14931	7.8	2877	1.4	1813	0.9	11994	6.3	10410	5.8	3857	2.0	1885	1.0	14523	7.1	13443	6.5
05/06/98	17002	8.2	16966	8.7	3918	2.0	3054	1.6	17397	8.2	15813	8.3	3717	1.8	1845	0.9	17282	8.4	16182	7.8
05/07/98	6289	2.7	4353	2.2	18551	8.6	17687	9.0	6097	2.7	3513	1.8	11442	5.8	8570	4.8	26788	13.0	25716	12.5
05/08/98	2482	1.3	1548	0.8	1089	0.8	225	0.1	2005	1.1	421	0.2	2160	1.1	288	0.1	15583	7.6	14153	7.0
05/09/98	1581	0.8	846	0.3	1198	0.8	332	0.2	2139	1.1	555	0.3	5568	2.8	3898	1.8	5457	2.7	4177	2.1
05/10/98	1468	0.8	633	0.3	1431	0.7	587	0.3	1740	0.9	158	0.1	4683	2.4	2811	1.4	4487	2.2	3407	1.7
05/11/98	8112	3.1	5178	2.8	1751	0.8	887	0.5	5918	3.1	4334	2.3	2905	1.6	1033	0.5	10260	5.0	9180	4.5
05/12/98	12776	6.6	11678	6.3	3067	1.6	2239	1.2	15049	7.8	13465	7.1	5227	2.8	3433	1.8	18801	9.5	17766	9.0
05/13/98	13258	8.8	12320	8.3	8271	3.2	5407	2.8	18442	8.7	14878	7.6	6517	3.4	4645	2.4	25106	12.2	24026	11.7
05/14/98	21897	11.2	21081	10.8	2541	1.3	1677	0.8	16387	8.1	13803	7.3	4160	2.1	2288	1.2	12804	6.2	11724	5.7
05/15/98	25439	13.0	24603	12.6	4898	2.8	4134	2.1	29874	15.7	28290	14.9	6121	3.2	4249	2.2	22948	11.2	21868	10.6
05/16/98	17820	9.1	18884	8.8	2481	1.3	1697	0.8	8030	4.2	8446	3.4	3870	1.8	1798	0.9	22777	11.1	21697	10.5
05/17/98	7331	3.8	6395	3.3	2641	1.3	1777	0.8	10894	6.7	9310	4.9	4018	2.1	2144	1.1	10256	6.0	9176	4.4
05/18/98	20822	10.6	19888	10.2	3300	1.8	2472	1.3	33609	18.4	32091	17.6	4944	2.5	3072	1.8	25423	12.4	24343	11.8
05/19/98	29242	14.8	28306	14.6	7899	4.0	7035	3.8	21324	11.2	19740	10.4	6054	3.1	4182	2.2	67697	32.8	66517	32.3
05/20/98	12210	6.2	11274	5.8	7677	3.8	6713	3.4	7742	4.1	6158	3.2	5528	2.8	3657	1.8	49750	24.2	48670	23.6
05/21/98	10560	5.4	9824	4.8	2859	1.6	1895	1.0	12364	6.6	10780	5.7	6068	3.1	4198	2.2	20066	9.7	18956	9.2
05/22/98	19600	10.0	18664	9.5	10840	5.5	9978	5.1	17768	9.3	16184	8.5	13310	6.8	11438	6.8	31374	15.2	30294	14.7
05/23/98	2046	1.0	1109	0.8	13798	7.0	12934	6.8	2073	1.1	489	0.3	17338	8.8	15464	8.0	14303	6.9	13223	6.4
05/24/98	6399	3.3	5463	2.8	8841	4.6	7977	4.1	3844	2.0	2260	1.2	8858	4.6	6987	3.6	27226	13.2	26146	12.7
05/25/98	11649	6.0	10713	6.5	7349	3.7	6486	3.3	8572	4.6	6988	3.7	6033	3.1	4161	2.1	19745	9.6	18665	9.1
05/26/98	18420	9.8	17523	9.3	3588	1.8	2738	1.5	16236	8.6	14652	7.7	8984	3.7	6190	2.8	29524	15.0	28485	14.4
05/27/98	18764	9.6	17828	9.1	2487	1.3	1603	0.8	15578	8.2	13995	7.4	5018	2.6	3147	1.6	32138	15.6	31058	15.1
05/28/98	21322	10.9	20388	10.4	4067	2.1	3203	1.8	20878	11.0	19292	10.1	4700	2.4	2828	1.5	36567	17.8	35487	17.2
05/29/98	23542	12.0	22606	11.6	2446	1.2	1581	0.8	18245	9.6	16661	8.8	3805	2.0	1833	1.0	38159	22.2	35103	21.7
05/30/98	13388	6.4	12452	6.4	4648	2.3	3884	1.8	6300	3.3	4716	2.6	6401	3.3	4529	2.3	56182	27.3	55082	25.8
05/31/98	8542	4.4	7606	3.8	1761	0.8	897	0.5	3569	1.9	1985	1.0	2605	1.3	733	0.4	75875	36.8	74795	36.3
Monthly Statistics																				
Average:		7.1		6.6		2.8		2.2		8.2		5.4		3.1		2.1		13.6		13.1
Maximum:		14.8		14.6		8.6		8.0		18.4		17.6		8.8		8.0		36.8		36.3
Minimum:		0.8		0.3		0.6		0.1		0.8		0.1		1.1		0.1		2.2		1.7
Median:		8.8		8.3		1.8		1.3		8.3		6.6		2.8		1.8		12.2		11.7
Std Dev:		7.8		7.8		4.2		4.2		8.2		8.2		3.3		3.3		16.2		16.[illegible]

Integrated Environmental Monitoring Plan
Continuous Environmental Radon Monitoring Spreadsheet:

(all values in pCi/l)

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Standard Legend: 1. "(a)" indicates edited data due to erroneous reading.
2. "(b)" indicates data loss due to monitor malfunction
3. "(c)" indicates programming error in monitor
4. "(d)" discontinuity due to data downloading
5. "(e)" indicates edited data due to operation outside manufacturer's temp. spec.

FENCELINE MONITORING LOCATIONS

Date	AMS02 Uncorrected / Unvalidated Counts	AMS02 Unc./Unval. Conc	AMS02 Corrected / Validated Counts	AMS02 Corr./Val. Conc	AMS04 Uncorrected / Unvalidated Counts	AMS04 Unc./Unval. Conc.	AMS04 Corrected / Validated Counts	AMS04 Corr./Val. Conc	AMS05 Uncorrected / Unvalidated Counts	AMS05 Unc./Unval. Conc.	AMS05 Corrected / Validated Counts	AMS05 Corr./Val. Conc	AMS06 Uncorrected / Unvalidated Counts	AMS06 Unc./Unval. Conc	AMS06 Corrected / Validated Counts	AMS06 Corr./Val. Conc.	AMS07 Uncorrected / Unvalidated Counts	AMS07 Unc./Unval. Conc	AMS07 Corrected / Validated Counts	AMS07 Corr./Val. Conc
06/01/98	1460	0.8	742	0.4	1388	0.8	560	0.3	2013	1.0	775	0.4	1752	0.9	772	0.4	2201	1.2	959	0.5
06/02/98	1654	0.8	905	0.5	1509	0.8	645	0.3	2061	1.0	823	0.4	1913	1.0	891	0.4	2297	1.2	1001	0.5
06/03/98	1092	0.5	343	0.2	954	0.5	90	0.1	1460	0.7	222	0.1	1475	0.7	453	0.2	1749	0.9	453	0.2
06/04/98	1233	0.6	484	0.2	1270	0.7	406	0.2	1722	0.8	484	0.2	1505	0.8	483	0.2	1926	1.0	630	0.3
06/05/98	1470	0.7	721	0.4	1431	0.7	567	0.3	1940	0.9	702	0.3	1752	0.9	730	0.4	2163	1.1	867	0.4
06/06/98	1453	0.7	704	0.4	1328	0.7	464	0.3	1833	0.9	595	0.3	1420	0.7	398	0.2	1951	1.0	655	0.3
06/07/98	1656	0.8	907	0.5	1419	0.7	555	0.3	1945	0.9	707	0.3	1851	0.9	829	0.4	2283	1.1	987	0.5
06/08/98	2326	1.2	892	0.5	1605	0.9	777	0.4	2244	1.1	1057	0.5	2009	1.0	987	0.5	2581	1.4	1339	0.7
06/09/98	1267	0.7	518	0.3	1107	0.6	243	0.1	1670	0.8	432	0.2	1858	0.9	836	0.4	1902	1.0	606	0.3
06/10/98	1274	0.6	525	0.3	1107	0.6	243	0.1	1682	0.8	444	0.2	1474	0.8	494	0.3	1924	1.0	628	0.3
06/11/98	1200	0.6	451	0.2	1036	0.5	172	0.1	1611	0.8	373	0.2	1438	0.7	416	0.2	1999	1.0	703	0.4
06/12/98	887	0.5	138	0.1	837	0.4	-27	0.0	1301	0.6	63	0.0	1071	0.5	49	0.0	1489	0.7	193	0.1
06/13/98	1025	0.5	276	0.1	925	0.5	61	0.1	1331	0.6	93	0.1	1179	0.6	157	0.1	1624	0.8	328	0.2
06/14/98	1112	0.6	363	0.2	1122	0.6	258	0.1	1615	0.8	377	0.2	1381	0.7	359	0.2	1738	0.9	442	0.2
06/15/98	1055	0.5	306	0.2	955	0.5	127	0.1	1421	0.7	234	0.1	1306	0.7	326	0.2	1420	0.8	232	0.1
06/16/98	1037	0.5	288	0.1	732	0.4	-24	0.0	1274	0.6	36	0.0	1131	0.6	109	0.1	1526	0.8	230	0.1
06/17/98	1000	0.5	251	0.1	908	0.5	44	0.1	1303	0.6	65	0.0	1101	0.6	79	0.1	1622	0.8	326	0.2
06/18/98	1411	0.7	662	0.3	1106	0.6	242	0.1	1653	0.8	415	0.2	1543	0.8	521	0.3	2139	1.1	843	0.4
06/19/98	1029	0.5	280	0.1	870	0.4	6	0.0	1788	0.6	50	0.1	1073	0.5	51	0.1	1476	0.7	180	0.1
06/20/98	1245	0.6	496	0.2	1156	0.6	292	0.2	1629	0.8	391	0.2	1370	0.7	348	0.2	1912	1.0	616	0.3
06/21/98	1235	0.6	486	0.2	1010	0.5	146	0.1	1570	0.8	332	0.2	1418	0.7	396	0.2	1875	0.9	579	0.3
06/22/98	1249	0.7	531	0.3	1248	0.6	384	0.2	1543	0.8	356	0.2	1618	0.8	596	0.3	2202	1.2	960	0.5
06/23/98	898	0.5	149	0.1	817	0.4	-47	0.0	1267	0.6	29	0.0	1131	0.6	109	0.1	1504	0.7	208	0.1
06/24/98	1125	0.6	376	0.2	1112	0.6	248	0.1	1541	0.7	303	0.2	1293	0.6	-271	0.2	1901	1.0	605	0.3
06/25/98	1351	0.7	602	0.3	1328	0.7	464	0.2	1889	0.9	651	0.3	1558	0.8	536	0.3	2217	1.1	921	0.5
06/26/98	1323	0.7	574	0.3	999	0.5	135	0.1	3860	1.8	287	0.2	1398	0.7	376	0.2	1722	0.9	426	0.2
06/27/98	1356	0.7	607	0.3	1047	0.5	183	0.1	1550	0.7	312	0.2	1382	0.7	360	0.2	1905	1.0	609	0.3
06/28/98	1155	0.6	406	0.2	1094	0.6	230	0.1	1480	0.7	242	0.1	1489	0.7	467	0.2	1825	0.9	529	0.3
06/29/98	1172	0.6	423	0.2	1014	0.5	150	0.1	1548	0.7	310	0.2	1400	0.7	378	0.2	1772	0.9	476	0.2
06/30/98	1080	0.6	331	0.2	947	0.5	83	0.1	1245	0.6	7	0.0	1111	0.6	89	0.1	1636	0.8	340	0.2
Monthly Statistics:																				
Average:		0.6		0.3		0.6		0.1		0.8		0.2		0.7		0.2		1.0		0.3
Maximum:		1.2		0.5		0.9		0.4		1.8		0.5		1.0		0.5		1.4		0.7
Minimum:		0.5		0.1		0.4		0.0		0.6		0.0		0.5		0.0		0.7		0.1
Median:		0.6		0.2		0.6		0.1		0.8		0.2		0.7		0.2		1.0		0.3
Std. Dev.:		0.3		0.2		0.2		0.2		0.4		0.2		0.3		0.2		0.3		0.3

K65 AREA PROXIMITY MONITORING LOCATIONS

Date	KNE Uncorrected / Unvalidated Counts	KNE Unc./Unval. Conc.	KNE Corrected / Validated Counts	KNE Corr./Val. Conc	KNW Uncorrected / Unvalidated Counts	KNW Unc./Unval. Conc	KNW Corrected / Validated Counts	KNW Corr./Val. Conc	KSE Uncorrected / Unvalidated Counts	KSE Unc./Unval. Conc.	KSE Corrected / Validated Counts	KSE Corr./Val. Conc.	KSW Uncorrected / Unvalidated Counts	KSW Unc./Unval. Conc.	KSW Corrected / Validated Counts	KSW Corr./Val. Conc	KTOP Uncorrected / Unvalidated Counts	KTOP Unc./Unval. Conc	KTOP Corrected / Validated Counts	KTOP Corr./Val. Conc
06/01/98	24960	12.7	24024	12.3	3503	1.9	2675	1.4	15443	8.5	13925	7.6	4508	2.3	2636	1.4	33932	16.5	32852	16.0
06/02/98	44889	29.0	44148	28.5	8741	4.5	7877	4.0	30829	20.5	29575	19.7	4586	2.4	2714	1.4	74993	41.6	74048	41.1
06/03/98	5518	2.8	4582	2.3	2470	1.3	1606	0.8	5846	3.1	4262	2.2	4838	2.5	2966	1.5	20188	9.8	19108	9.3
06/04/98	22689	11.6	21753	11.1	2337	1.2	1473	0.8	15899	8.4	14315	7.5	5410	2.8	3538	1.8	36183	17.6	35103	17.0
06/05/98	15918	8.1	14982	7.7	10686	5.5	9822	5.0	12736	6.7	11152	5.9	7855	4.0	5983	3.1	38879	18.9	37799	18.4
06/06/98	13737	7.0	12801	6.5	1916	1.0	1052	0.5	10546	5.5	8962	4.7	3388	1.7	1516	0.8	16654	8.1	15574	7.6
06/07/98	12792	6.5	11856	6.1	2727	1.4	1863	1.0	10719	5.6	9135	4.8	4305	2.2	2433	1.3	14172	6.9	13092	6.4
06/08/98	13125	7.0	12228	6.5	5383	2.9	4555	2.4	9818	5.4	8300	4.6	5625	3.0	3831	2.1	28563	13.9	27483	13.3
06/09/98	2113	1.1	1177	0.6	11790	6.0	10926	5.6	1982	1.0	398	0.2	13330	6.9	11458	5.9	6649	3.2	5569	2.7
06/10/98	19193	9.8	18257	9.3	5079	2.6	4215	2.2	15656	8.2	14072	7.4	5800	3.0	3928	2.0	31779	16.1	30744	15.6
06/11/98	23437	12.0	22501	11.5	17367	8.9	16503	8.4	10522	5.5	8938	4.7	16521	8.5	14649	7.5	54883	26.7	53803	26.1
06/12/98	3792	1.9	2856	1.5	1124	0.7	404	0.3	2265	1.2	681	0.4	1709	1.0	149	0.1	35697	17.3	34617	16.8
06/13/98	18237	9.3	17301	8.8	3279	1.7	2415	1.2	13246	7.0	11662	6.1	3064	1.6	1192	0.6	37229	18.1	36149	17.5
06/14/98	31530	16.1	30594	15.6	15495	7.9	14631	7.5	22278	11.7	20694	10.9	16162	8.3	14290	7.4	36041	17.5	34961	17.0
06/15/98	4870	2.6	3973	2.1	3682	2.0	2854	1.5	3616	1.9	2032	1.1	5136	2.8	3342	1.8	23785	11.5	22705	11.0
06/16/98	2961	1.5	2025	1.0	1286	0.7	422	0.2	2020	1.1	436	0.2	2099	1.1	227	0.1	15714	7.6	14634	7.1
06/17/98	8087	4.1	7151	3.7	2005	1.0	1141	0.6	4058	2.1	2474	1.3	2757	1.4	885	0.5	7283	3.7	6248	3.2
06/18/98	21014	10.7	20078	10.2	5587	2.9	4723	2.4	10333	5.4	8749	4.6	6095	3.1	4223	2.2	58548	28.4	57468	27.9
06/19/98	8340	4.4	7443	4.0	5045	2.7	4217	2.3	5563	3.1	4045	2.2	3130	1.7	1336	0.7	32809	15.9	31729	15.4
06/20/98	12368	6.3	11432	5.8	2399	1.2	1535	0.8	7770	4.1	6186	3.3	3187	1.6	1315	0.7	21681	10.5	20601	10.0
06/21/98	11454	5.9	10518	5.4	5043	2.6	4179	2.1	6643	3.5	5059	2.7	4959	2.5	3087	1.6	25401	12.3	24321	11.8
06/22/98	14110	7.5	13213	7.0	6088	3.2	5260	2.8	10143	5.3	8559	4.5	5867	3.2	4073	2.2	25539	12.4	24459	11.9
06/23/98	7705	3.9	6769	3.5	4420	2.2	3556	1.8	6527	3.4	4943	2.6	3700	1.9	1828	0.9	36028	17.5	34948	17.0
06/24/98	13779	7.0	12843	6.6	2263	1.2	1399	0.7	13250	7.0	11666	6.1	3511	1.8	1639	0.9	38960	18.9	37880	18.4
06/25/98	22546	11.5	21610	11.0	2433	1.2	1569	0.8	18533	9.8	16949	8.9	3886	2.0	2014	1.0	31990	15.5	30910	15.0
06/26/98	12433	6.4	11497	5.9	2203	1.1	1339	0.7	5310	2.8	3726	2.0	3133	1.6	1261	0.7	21272	10.3	20192	9.8
06/27/98	11793	6.0	10857	5.5	2521	1.3	1657	0.8	4620	2.4	3036	1.6	3204	1.6	1332	0.7	14638	7.1	13558	6.6
06/28/98	11277	5.8	10341	5.3	1870	0.9	1006	0.5	3790	2.0	2206	1.2	3046	1.6	1174	0.6	16488	8.0	15408	7.5
06/29/98	7891	4.0	6955	3.6	3545	1.8	2681	1.4	4677	2.5	3093	1.6	3639	1.9	1767	0.9	65519	31.8	64439	31.3
06/30/98	7934	4.1	6998	3.6	1241	0.6	377	0.2	4755	2.5	3171	1.7	2307	1.2	435	0.2	27528	13.4	26448	12.8
Monthly Statistics:																				
Average:		7.6		7.1		2.5		2.0		5.2		4.4		2.7		1.5		15.2		11
Maximum:		29.0		28.5		8.9		8.4		20.5		19.7		8.5		7.5		41.6		41.1
Minimum:		1.1		0.6		0.6		0.2		1.0		0.2		1.0		0.1		3.2		2.7
Median:		6.4		6.0		1.7		1.3		4.7		3.9		2.1		1.1		14.7		14.2
Std. Dev.:		10.5		10.5		4.0		4.0		7.7		7.7		3.7		3.7		16.1		16.1

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Integrated Environmental Monitoring Plan

Continuous Environmental Radon Monitoring Spreadsheet: May 1998

(all values in pCi/L)

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Standard Legend: 1. "(a)" indicates edited data due to erroneous readings
2. "(b)" indicates data loss due to monitor malfunction
3. "(c)" indicates programming error in monitor
4. "(d)" discontinuity due to data downloading
5. "(e)" indicates edited data due to operation outside manufacturer's temp. specs

OTHER/PROJECT MONITORING LOCATIONS

Date	Time	AMS11 Uncorrected / Unvalidated Counts	AMS11 Uncorrected / Unvalidated Conc	AMS11 Corrected / Validated Counts	AMS11 Corrected / Validated Conc	PILOT Uncorrected Counts	PILOT Uncorrected Conc	PILOT Corrected Counts	PILOT Corrected Conc	PITS Uncorrected / Unvalidated Counts	PITS Uncorrected / Unvalidated Conc	PITS Corrected / Validated Counts	PITS Corrected / Validated Conc	RAILT4 Uncorrected / Unvalidated Counts	RAILT4 Uncorrected / Unvalidated Conc	RAILT4 Corrected / Validated Counts	RAILT4 Corrected / Validated Conc
05/01/98		1302	0.7	150	0.1	1251	0.6	214	0.1	1587	0.8	271	0.1	1673	0.8	853	0.5
05/02/98		1321	0.7	189	0.1	1082	0.5	45	0.0	1460	0.7	164	0.1	944	0.6	224	0.1
05/03/98		1314	0.8	182	0.1	1238	0.6	201	0.1	1643	0.8	347	0.2	1543	0.8	823	0.4
05/04/98		1357	0.7	253	0.1	1017	0.6	87	0.0	1823	0.8	327	0.2	1032	0.6	342	0.2
05/05/98		1527	0.8	376	0.2	1458	0.7	422	0.2	1894	1.0	598	0.3	1494	0.7	774	0.4
05/06/98		1881	0.8	728	0.4	1052	1.0	815	0.5	2092	1.1	798	0.4	2020	1.0	1300	0.8
05/07/98		1358	0.7	208	0.1	1187	0.6	130	0.1	1812	0.8	318	0.2	1054	0.5	334	0.2
05/08/98		1240	0.6	88	0.0	1060	0.5	13	0.0	1602	0.8	208	0.1	707	0.3	-13	0.0
05/09/98		1182	0.6	10	0.0	1038	0.5	1	0.0	1418	0.7	122	0.1	818	0.4	88	0.0
05/10/98		1378	0.7	224	0.1	1004	0.5	33	-0.0	1478	0.8	178	0.1	781	0.4	71	0.0
05/11/98		1433	0.7	329	0.2	1073	0.6	36	0.0	1465	0.7	169	0.1	958	0.5	288	0.1
05/12/98		1800	0.8	648	0.3	6524	3.4	518	0.7	1909	1.0	687	0.4	1764	0.8	1044	0.5
05/13/98		1727	0.9	548	0.3	3348	1.7	0	(a)	2105	1.1	809	0.4	2017	1.0	1297	0.6
05/14/98		2115	1.0	881	0.4	14803	7.5	0	(a)	2181	1.1	885	0.4	1910	1.0	1190	0.6
05/15/98		2152	1.0	928	0.4	27827	14.1	0	(a)	2474	1.3	1178	0.6	2700	1.4	1688	0.8
05/16/98		1772	0.8	648	0.3	2481	1.3	0	(a)	1704	0.9	408	0.2	2091	1.1	795	0.4
05/17/98		2025	1.0	801	0.4	78347	38.4	0	(a)	2107	1.1	811	0.4	2168	1.1	872	0.4
05/18/98		2167	1.1	884	0.6	2011	1.3	183	0.3	2481	1.3	1185	0.6	2682	1.4	1440	0.8
05/19/98		2189	1.1	875	0.6	1844	0.8	1124	0.8	2421	1.2	1125	0.6	3118	1.8	1822	0.8
05/20/98		1415	0.7	181	0.1	1092	0.6	372	0.2	1789	0.8	483	0.2	1626	0.8	528	0.3
05/21/98		1673	0.8	348	0.2	1108	0.8	388	0.2	1703	0.8	407	0.2	1985	1.0	888	0.4
05/22/98		1981	1.0	757	0.4	1528	0.8	808	0.4	2123	1.1	827	0.4	2493	1.3	1187	0.6
05/23/98		1420	0.7	186	0.1	1038	0.5	318	0.2	1745	0.8	448	0.2	1475	0.8	178	0.1
05/24/98		1348	0.8	122	0.1	1023	0.6	303	0.2	1666	0.8	368	0.2	1611	0.8	216	0.1
05/25/98		1456	0.7	231	0.1	1103	0.6	383	0.2	1684	0.8	388	0.2	1825	1.0	828	0.3
05/26/98		1652	0.8	378	0.2	1160	0.6	460	0.2	1660	0.8	418	0.2	1834	1.0	848	0.4
05/27/98		1673	0.8	449	0.2	1414	0.7	694	0.4	1894	1.0	698	0.3	2408	1.2	1110	0.6
05/28/98		1638	0.8	815	0.3	1514	0.8	794	0.4	2088	1.1	790	0.4	2338	1.2	1043	0.6
05/29/98		1878	1.0	764	0.4	1707	0.8	887	0.5	2417	1.2	1121	0.6	2738	1.4	1442	0.7
05/30/98		1831	0.8	407	0.2	1048	0.5	326	0.2	1837	0.8	541	0.3	1832	0.8	638	0.3
05/31/98		1657	0.7	333	0.2	1028	0.5	308	0.2	1777	0.8	481	0.2	1528	0.8	230	0.1
Monthly Statistics																	
Average:			0.8		0.2		2.7		0.2		0.9		0.3		0.9		0.4
Maximum:			1.1		0.5		38.4		0.7		1.3		0.6		1.8		0.9
Minimum:			0.6		0.0		0.5		0.0		0.7		0.1		0.3		0.0
Median:			0.8		0.2		0.6		0.2		0.8		0.2		0.9		0.4
Std. Dev.:			0.3		0.3		13.8		0.4		0.3		0.3		0.8		0.6

Date	SURGE Uncorrected / Unvalidated Counts	SURGE Uncorrected / Unvalidated Conc	SURGE Corrected / Validated Counts	SURGE Corrected / Validated Conc	T28 Uncorrected / Unvalidated Counts	T28 Uncorrected / Unvalidated Conc	T28 Corrected / Validated Counts	T28 Corrected / Validated Conc	WP17a Uncorrected / Unvalidated Counts	WP17a Uncorrected / Unvalidated Conc	WP17a Corrected / Validated Counts	WP17a Corrected / Validated Conc	BACKGROUND: BKGD01 (AMS12) Uncorrected / Unvalidated Counts	BKGD01 (AMS12) Uncorrected / Unvalidated Conc.	BKGD01 (AMS12) Corrected / Validated Counts	BKGD01 (AMS12) Corrected / Validated Conc.	BACKGROUND: BKGD02 (AMS16) Uncorrected / Unvalidated Counts	BKGD02 (AMS16) Uncorrected / Unvalidated Conc	BKGD02 (AMS16) Corrected / Validated Counts	BKGD02 (AMS16) Corrected / Validated Conc
05/01/98	1869	0.9	805	0.4	4727	2.5	3718	1.8	1418	0.7	268	0.1	1782	0.8	188	0.1	1239	0.6	490	0.3
05/02/98	1181	0.6	287	0.2	3470	1.8	2482	1.3	1198	0.6	48	0.0	1658	0.8	45	0.0	1095	0.5	346	0.2
05/03/98	1897	1.0	1033	0.5	4823	2.8	3815	2.0	1392	0.7	240	0.1	1783	0.9	170	0.1	1139	0.6	390	0.2
05/04/98	1188	0.6	360	0.2	2405	1.3	1438	0.8	1218	0.6	68	0.0	2803	1.4	1180	0.6	1189	0.6	440	0.2
05/05/98	1748	0.9	885	0.5	3287	1.7	2288	1.2	1582	0.8	430	0.2	1878	1.0	383	0.2	1394	0.7	845	0.3
05/06/98	2002	1.1	1138	0.6	2983	1.6	1876	1.0	1827	1.0	776	0.4	2538	1.2	825	0.4	1412	0.7	883	0.3
05/07/98	1283	0.7	399	0.2	2631	1.4	1823	0.8	1383	0.7	231	0.1	1824	0.9	311	0.2	1248	0.6	600	0.3
05/08/98	1071	0.6	207	0.1	2474	1.3	1468	0.8	1218	0.6	68	0.0	1713	0.8	100	0.0	1053	0.5	304	0.2
05/09/98	1009	0.5	145	0.1	1200	0.8	182	0.1	1146	0.6	-7	0.0	1803	0.8	-10	-0.0	1073	0.5	324	0.2
05/10/98	1008	0.5	142	0.1	995	0.5	-13	0.0	1162	0.6	10	0.0	1823	0.8	10	0.0	1131	0.6	382	0.2
05/11/98	1582	0.8	315	0.2	1893	1.0	885	0.5	1278	0.7	172	0.1	1868	0.8	123	0.1	1407	0.7	420	0.2
05/12/98	2081	1.1	1197	0.6	3209	1.7	2243	1.2	1868	1.0	714	0.4	2078	1.0	468	0.2	1283	0.6	634	0.3
05/13/98	1817	1.0	1053	0.5	3643	1.8	2835	1.4	1904	1.0	752	0.4	2163	1.1	650	0.3	1544	0.8	812	0.4
05/14/98	1963	1.0	1098	0.6	3213	1.7	2206	1.1	2021	1.0	868	0.4	1768	0.8	695	0.3	1804	0.8	1012	0.5
05/15/98	2098	1.1	1232	0.6	3581	1.8	2553	1.3	2187	1.1	1035	0.6	1799	0.8	835	0.5	1927	0.9	1135	0.5
05/16/98	1827	1.0	983	0.5	4743	2.6	3735	1.9	1700	0.9	648	0.3	1282	0.7	398	0.2	1753	0.8	981	0.5
05/17/98	2133	1.1	1269	0.7	3088	1.8	2080	1.1	2178	1.1	1028	0.6	1302	0.7	438	0.2	1844	0.8	1052	0.5
05/18/98	2128	1.2	1301	0.7	4223	2.3	3257	1.8	2288	1.2	968	0.5	1828	0.8	862	0.5	23829	11.5	821	0.6
05/19/98	3007	1.8	2143	1.1	7588	3.9	6581	3.4	2648	1.3	1018	0.6	1798	0.8	832	0.5	2015	1.0	1223	0.6
05/20/98	1635	0.8	771	0.4	4181	2.2	3173	1.8	1751	0.9	124	0.1	1112	0.6	248	0.1	1488	0.7	898	0.3
05/21/98	1544	0.8	880	0.4	3234	1.7	2228	1.2	1788	0.8	181	0.1	1161	0.6	287	0.2	1534	0.7	742	0.4
05/22/98	1838	1.0	874	0.5	4014	2.1	3008	1.6	2082	1.0	435	0.2	1482	0.8	588	0.3	1860	1.0	1168	0.6
05/23/98	1208	0.6	342	0.2	1632	0.8	524	0.3	225	0.8	22	0.1	1060	0.6	186	0.1	1537	0.7	745	0.4
05/24/98	1242	0.7	378	0.2	2168	1.1	1160	0.6	0	(b)	0	(b)	1068	0.6	182	0.1	1410	0.7	618	0.3
05/25/98	1703	0.8	838	0.4	4384	2.3	3378	1.7	0	(b)	0	(b)	978	0.5	114	0.1	1550	0.7	768	0.4
05/26/98	1681	0.8	727	0.4	3992	2.1	2984	1.6	0	(b)	0	(b)	1139	0.6	311	0.2	1670	0.8	811	0.4
05/27/98	1855	1.0	881	0.6	5423	2.8	4416	2.3	1008	0.6	58	0.1	1271	0.7	407	0.2	1728	0.8	837	0.4
05/28/98	1735	1.1	1061	0.7	4121	2.8	3281	2.0	2298	1.1	872	0.3	1544	0.8	688	0.4	1778	0.8	846	0.5
05/29/98	2648	1.3	1684	0.8	7446	3.8	6434	3.3	2400	1.2	773	0.4	1694	0.8	730	0.4	1701	0.8	808	0.4
05/30/98	1484	0.8	600	0.3	6531	2.8	4523	2.3	1814	1.0	287	0.1	1245	0.6	381	0.2	1608	0.8	816	0.4
05/31/98	1352	0.7	488	0.3	5820	3.0	4812	2.6	1822	0.8	6	-0.0	1098	0.6	232	0.1	1448	0.7	857	0.3
Monthly Statistics																				
Average:		0.9		0.4		2.0		1.4		0.9		0.2		0.8		0.2		1.1		0.4
Maximum:		1.8		1.1		3.9		3.4		1.3		0.5		1.4		0.6		11.5		0.6
Minimum:		0.5		0.1		0.5		0.0		0.0		0.0		0.5		-0.0		0.5		0.2
Median:		0.9		0.4		1.8		1.3		0.8		0.1		0.8		0.2		0.7		0.4
Std. Dev.:		0.5		0.6		1.0		1.0		0.4		0.4		0.4		0.3		3.7		0.2

ATTACHMENT C

REMOVAL ACTION STATUS REPORT

Note: All Removal Action except 3, 9, 12, 17, and 27 are completed and closed. Removal Action 3, 9, 12, 17, and 27 are Programmatic Removal Actions and work continues under them. All documentation for work done this quarter under these Programmatic Removal Actions is located in the Post-ROD files. Gradually work performed under these actions is being phased out and being done pursuant to appropriate Remedial Actions.

Integrated Environmental Monitoring Plan

Continuous Environmental Radon Monitoring Spreadsheet:

(all values in pCi/l)

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Standard Legend 1. "(a)" indicates edited data due to erroneous readings.
2. "(b)" indicates data loss due to monitor malfunction.
3. "(c)" indicates programming error in monitor.
4. "(d)" discontinuity due to data downloading.
5. "(e)" indicates edited data due to operation outside manufacturer's temp. specs.

OTHER/PROJECT MONITORING LOCATIONS

Date	Time	AMS11				PILOT				PIT5				RALLY4				SURGE			
		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected		Corrected		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated	
		Counts	Conc.	Counts	Conc.	Counts	Conc.	Counts	Conc	Counts	Conc.	Counts	Conc.	Counts	Conc	Counts	Conc.	Counts	Conc	Counts	Conc.
06/01/98		1665	0.8	441	0.2	1275	0.7	585	0.3	2075	1.1	779	0.4	2534	1.3	1238	0.6	2109	1.2	1281	0.7
06/02/98		1853	0.9	629	0.3	1714	0.9	994	0.5	2201	1.1	905	0.5	2707	1.4	1411	0.7	2366	1.2	1502	0.8
06/03/98		1458	0.7	234	0.1	930	0.5	210	0.1	1651	0.8	355	0.2	1542	0.8	246	0.1	1168	0.6	304	0.2
06/04/98		1534	0.7	310	0.2	1252	0.6	532	0.3	1829	0.9	533	0.3	2053	1.0	757	0.4	1513	0.8	649	0.3
06/05/98		1769	0.8	545	0.3	1380	0.7	660	0.3	1957	1.0	661	0.3	2048	1.0	752	0.4	1712	0.9	848	0.4
06/06/98		1517	0.7	293	0.2	1367	0.7	647	0.3	2219	1.1	923	0.5	2014	1.0	718	0.4	1461	0.8	597	0.3
06/07/98		1750	0.8	526	0.3	3244	1.7	2524	1.3	2121	1.1	825	0.4	2149	1.1	853	0.4	1986	1.0	1122	0.6
06/08/98		2022	1.0	849	0.4	18377	18.6	18017	18.3	2158	1.1	916	0.5	2422	1.3	1180	0.6	2028	1.1	1200	0.7
06/09/98		1525	0.7	301	0.2	0	(b)	0	(b)	1774	0.9	478	0.2	1622	0.8	326	0.2	1220	0.6	356	0.2
06/10/98		1637	0.8	413	0.2	76047	67.6	104	0.3	1807	0.9	511	0.3	2034	1.0	738	0.4	1450	0.8	586	0.3
06/11/98		1374	0.7	150	0.1	1162	0.6	154	0.1	1780	0.9	484	0.3	2139	1.1	843	0.5	1806	0.9	942	0.5
06/12/98		1262	0.6	38	0.0	997	0.5	-11	0.0	1524	0.8	228	0.1	1364	0.7	68	0.1	1129	0.6	265	0.1
06/13/98		1317	0.6	93	0.1	1147	0.6	139	0.1	1610	0.8	314	0.2	1848	0.9	552	0.3	1396	0.7	532	0.3
06/14/98		1479	0.7	255	0.1	1378	0.7	370	0.2	1827	0.9	531	0.3	2278	1.2	982	0.5	1863	1.0	999	0.5
06/15/98		1025	0.6	56	0.1	1098	0.6	132	0.1	1665	0.9	423	0.2	1282	0.7	148	0.1	1332	0.7	468	0.3
06/16/98		1327	0.6	103	0.1	431	0.5	-31	0.0	1598	0.8	302	0.2	1150	0.7	70	0.1	583	0.6	115	0.1
06/17/98		1271	0.6	47	0.0	0	(b)	0	(b)	1527	0.8	231	0.1	1517	0.8	221	0.1	0	(b)	0	(b)
06/18/98		1639	0.8	415	0.2	0	(b)	0	(b)	2055	1.0	759	0.4	2072	1.1	776	0.4	0	(b)	0	(b)
06/19/98		1294	0.6	70	0.1	0	(b)	0	(b)	1560	0.8	264	0.1	1534	0.8	238	0.1	0	(b)	0	(b)
06/20/98		1473	0.7	249	0.1	0	(b)	0	(b)	1773	0.9	477	0.2	1900	1.0	604	0.3	0	(b)	0	(b)
06/21/98		1505	0.7	281	0.1	0	(b)	0	(b)	1834	0.9	538	0.3	1650	0.8	354	0.2	0	(b)	0	(b)
06/22/98		1597	0.8	373	0.2	638	0.6	50	0.1	1024	1.3	484	0.6	2027	1.0	731	0.4	569	0.6	367	0.0
06/23/98		1278	0.6	54	0.0	1106	0.6	98	0.1	0	(b)	0	(b)	1417	0.7	121	0.1	1333	0.7	539	0.1
06/24/98		1542	0.7	318	0.2	1126	0.6	118	0.1	648	0.8	108	0.1	1977	1.0	681	0.4	1490	0.8	382	0.1
06/25/98		1768	0.8	544	0.3	1491	0.8	483	0.3	2084	1.1	788	0.4	2494	1.3	1198	0.6	1712	0.9	160	0.1
06/26/98		1587	0.8	363	0.2	1210	0.6	202	0.1	1747	0.9	451	0.2	1685	0.9	389	0.2	1821	1.0	-51	0.1
06/27/98		1390	0.7	166	0.1	1150	0.6	142	0.1	1799	0.9	503	0.3	1693	0.9	397	0.2	1613	0.9	259	0.0
06/28/98		1434	0.7	210	0.1	1095	0.6	87	0.1	1677	0.9	381	0.2	1592	0.8	296	0.2	1796	1.0	-76	0.2
06/29/98		1467	0.7	243	0.1	1159	0.6	151	0.1	1892	1.0	596	0.3	1619	0.8	323	0.2	1258	0.7	614	0.0
06/30/98		1260	0.6	36	0.0	1081	0.5	73	0.1	1639	0.8	343	0.2	1533	0.8	237	0.1	1393	0.8	479	0.0
Monthly Statistics:																					
Average:			0.7		0.2		4.2		1.0		0.9		0.3		1.0		0.3		0.8		0.3
Maximum:			1.0		0.4		67.6		18.3		1.3		0.6		1.4		0.7		1.2		0.8
Minimum:			0.6		0.0		0.5		0.0		0.8		0.1		0.7		0.1		0.6		0.0
Median:			0.7		0.1		0.6		0.1		0.9		0.3		1.0		0.3		0.8		0.1
Std. Dev.:			0.2		0.2		26.8		7.1		0.2		0.2		0.4		0.4		0.3		0.4

BACKGROUND MONITORING LOCATIONS

Date	Time	T28				WP17a				BKG001 (AMS12)				BKG002 (AMS16)			
		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated		Uncorrected / Unvalidated		Corrected / Validated	
		Counts	Conc.	Counts	Conc.	Counts	Conc	Counts	Conc.	Counts	Conc.	Counts	Conc.	Counts	Conc.	Counts	Conc.
06/01/98		5270	2.8	4304	2.3	1940	1.0	381	0.2	1261	0.7	397	0.2	1579	0.8	870	0.4
06/02/98		10063	5.2	9055	4.7	2189	1.1	562	0.3	1396	0.7	532	0.3	1775	0.9	983	0.5
06/03/98		2271	1.2	1263	0.7	1719	0.9	92	0.1	1085	0.6	221	0.1	1581	0.8	789	0.4
06/04/98		4276	2.2	3268	1.7	1856	0.9	229	0.2	1186	0.6	322	0.2	1689	0.8	897	0.4
06/05/98		4814	2.5	3806	2.0	1949	1.0	322	0.2	1358	0.7	494	0.3	2061	1.0	1269	0.6
06/06/98		2591	1.3	1583	0.8	1921	1.0	294	0.2	1198	0.6	334	0.2	17470	202.2	0	(a)
06/07/98		4459	2.3	3451	1.8	2045	1.0	418	0.3	1439	0.7	575	0.3	0	(b)	0	(b)
06/08/98		4287	2.2	3279	1.7	2381	1.2	754	0.4	1612	0.9	784	0.4	1015	0.8	553	0.5
06/09/98		1593	0.8	585	0.3	1686	0.8	59	0.1	1235	0.6	371	0.2	1597	0.8	805	0.4
06/10/98		3306	1.7	2298	1.2	1732	0.9	105	0.1	1066	0.6	238	0.1	1458	0.7	666	0.3
06/11/98		5831	3.0	4823	2.5	1837	0.9	210	0.2	1073	0.6	209	0.1	1396	0.7	604	0.3
06/12/98		3137	1.6	2129	1.1	1189	0.6	-303	0.0	906	0.5	42	0.0	1200	0.6	408	0.2
06/13/98		4551	2.4	3543	1.8	0	(b)	0	(b)	1012	0.5	148	0.1	1423	0.7	631	0.3
06/14/98		4461	2.3	3453	1.8	0	(b)	0	(b)	1166	0.6	302	0.2	1582	0.8	790	0.4
06/15/98		2712	1.5	1746	0.9	461	0.7	29	0.1	1026	0.5	162	0.1	1451	0.7	659	0.3
06/16/98		2293	1.2	1285	0.7	1366	0.7	70	0.1	919	0.5	55	0.1	1379	0.7	587	0.3
06/17/98		3457	1.8	2449	1.3	1318	0.7	22	0.1	879	0.5	15	0.0	1326	0.6	534	0.3
06/18/98		6750	3.5	5742	3.0	1902	1.0	606	0.3	1315	0.7	451	0.2	1596	0.8	804	0.4
06/19/98		3603	1.9	2595	1.3	1329	0.7	33	0.1	987	0.5	123	0.1	1361	0.7	569	0.3
06/20/98		2448	1.3	1440	0.7	1628	0.8	332	0.2	1221	0.6	357	0.2	1588	0.8	796	0.4
06/21/98		3214	1.7	2206	1.1	1544	0.8	248	0.2	1170	0.6	306	0.2	1508	0.7	716	0.3
06/22/98		4189	2.3	3223	1.8	1873	1.0	631	0.4	1169	0.7	377	0.2	1695	0.8	903	0.4
06/23/98		2688	1.4	1680	0.9	1370	0.7	74	0.1	936	0.5	72	0.1	1294	0.6	502	0.2
06/24/98		4538	2.4	3530	1.8	1508	0.8	212	0.1	1076	0.6	212	0.1	1406	0.7	614	0.3
06/25/98		4526	2.3	3518	1.8	1948	1.0	652	0.4	1226	0.6	362	0.2	1581	0.8	789	0.4
06/26/98		5880	3.0	4872	2.5	1650	0.9	354	0.2	1164	0.6	300	0.2	1580	0.8	788	0.4
06/27/98		5926	3.1	4918	2.5	1606	0.8	310	0.2	1090	0.6	226	0.1	1492	0.7	700	0.3
06/28/98		5712	3.0	4704	2.4	1605	0.8	309	0.2	1122	0.6	258	0.1	1389	0.7	597	0.3
06/29/98		4630	2.4	3622	1.9	1590	0.8	294	0.2	1126	0.6	262	0.1	1458	0.7	666	0.3
06/30/98		4753	2.5	3745	1.9	1328	0.7	32	0.1	994	0.5	130	0.1	1269	0.6	477	0.2
Monthly Statistics:																	
Average:			2.2		1.7		0.9		0.2		0.6		0.2		7.7		0.4
Maximum:			5.2		4.7		1.2		0.4		0.9		0.4		202.2		0.6
Minimum:			0.8		0.3		0.6		0.0		0.5		0.0		0.6		0.2
Median:			2.3		1.8		0.8		0.2		0.6		0.1		0.7		0.3
Std. Dev.:			1.7		1.7		0.3		0.2		0.2		0.2		72.1		0.2

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REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE
Extraction of Water Under FEMP Buildings AKA: Plant 6 Contaminated Perched Water	1	Closed	September 13, 1995	Pump water from extraction wells underneath Plants 2/3, 6, 8, and 9. Treat extracted water for volatile organic chemicals and uranium removal before discharge
Waste Pit Area Runoff Control	2	Closed	July 2, 1992	Collect and treat contaminated storm water run-off from the waste pit area
South Plume	3	Closed, transferred to Post-ROD	May 22, 1997	Collect and treat contaminated storm water from waste pit area, Install new alternate water supply, pump an discharge groundwater from South Plume, Install and operate interim Advanced Waste Water Treatment System, Conduct groundwater monitoring and institutional controls, conduct groundwater modeling and geochemical investigation
Silo 1 and 2	4	Closed	May 17, 1994	Install bentonite cap to reduce and monitor radon emissions, provide follow on monitoring
K 65 Decant Sump Tank	5	Closed	March 5, 1993	Periodically remove liquid from K-65 decant sump tank
Waste Pit 6 Exposed Material	6	Closed	March 25, 1992	Eliminate potential airborne contamination by resubmerging exposed pit material
Plant One Pad Continuing Release	7	Closed	February 16, 1995	Implement run-on/off control, install new pad, and upgrade existing Plant 1 Storage Pad
Inactive Flyash Piles/ South Field Area	8	Closed	December 23, 1991	Install plastic chain link barrier and post warning signs
Removal of Waste Inventory	9	Closed - Transferred to Post-ROD	May 22, 1997	Disposition of low level waste off-site
Active Flyash Pile Controls	10	Closed	May 16, 1997	Complete interim surface stabilization and complete active Flyash pile controls
Pit 5 Experimental Treatment Facility (ETS)	11	Closed	April 22, 1992	Remove contents, structure, and filter material. Backfill and cap with clay cover
Safe Shutdown	12	Closed - Transferred to Post-ROD	May 22, 1997	Remove uranium and other material from former processing equipment and ship material and equipment off-site
Plant 1 Ore Silos	13	Closed	November 6, 1995	Dismantle fourteen ore silos and their support structures
Contaminated Soils Adjacent to Solid Waste Incinerator at the Sewage Treatment Plant	14	Closed	January 3, 1995	Isolate or remove and dispose of contaminated soils from the vicinity of the sewage treatment plant
Scrap Metals Pile	15	Closed	November 14, 1994	Disposition If LLW Ferrous/non ferrous scrap metal, Containerize and dispose of scrap copper
Collect Uncontrolled Production Area Runoff - Northeast	16	Closed	May 22, 1997	Collect storm water run off rom the northeast perimeter of the former production area in the Storm Water Retention Basin
Improved Storage of Soil and Debris	17	Closed - Transferred to Post-ROD	May 22, 1997	Improve storage of existing and future generated soils and debris
Control Exposed Material in Pit 5	18	Closed	May 13, 1993	Eliminate potential airborne contamination by re-submerging exposed pit material
Plant 7 Dismantling	19	Closed	August 18, 1995	Dismantle and dispose of the Plant 7 structure
Uranyl Nitrate Neutralization Project	20	Closed	January 16, 1997	Neutralize, filter and package UNH inventory
Silo 3	21	Closed	February 24, 1993	Mitigate the potential release of hazardous waste material by covering and sealing dust collector hopper, removing dust collector, and capping and covering obvious release pathways
Waste Pit Area Containment Improvement	22	Closed	August 1, 1993	Stabilize south barrier of Pit 4; regarding drainage ditches along Pits 3, 4, 5, and 6; and resurface road between Pits 3, 4, 5, and 6

REMOVAL ACTION NAME	#	STATUS	CLOSURE DATE	SCOPE
Inactive Flyash Pile	23	Closed	June 29, 1992	Conduct field investigation to identify locations requiring material removal
Pilot Plant Sump	24	Closed	January 14, 1994	Remove liquid and sludge from the sump
Nitric Acid Rail Car	25	Closed	November 12, 1993	Remove residual contents from tank car and decontaminate and dispose of tank car
Asbestos Removal	26	Closed - Transferred to Post ROD	May 22, 1997	Mitigate the potential for contaminant and migration of asbestos fibers
Management of Contaminated Structures	27	Closed - Transferred to Post ROD	May 22, 1997	Management of contaminated structures
Fire Training Facility	28	Closed	July 11, 1995	Remove, decontaminate, dispose, treat or store contaminated structures, equipment, and soil from the former Fire Training Facility
Erosion Control of Inactive Flyash Pile; AKA: Temporary Filtrate Storage Tanks	29	Closed	March 2, 1994	Mitigate the threat of erosion induced slope failure and discharge of flyash to Paddy's Run
C2 Warehouse Well	30	Closed	May 28, 1997	Minimize future groundwater contamination by intercepting contaminated seeps that drain from the South Field and Inactive Flyash Pile and infiltrate to the GMA
South Field and Inactive Flyash Piles Seepage Control Project	31	Closed	December 6, 1995	

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