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Department of Energy

Field Office, Oak Ridge
P.O. Box 2001
Oak Ridge, Tennessee 37831-8723

April 28, 1992

Mr. Gregory D. McCabe
Site Assessment and Federal
Facility Section - Superfund Branch
U.S. Environmental Protection Agency
Region VII
726 Minnesota Avenue
Kansas City, Kansas 66101

Dear Mr. McCabe:

QUARTERLY PROGRESS REPORT FOR THE PERIOD JANUARY-MARCH 1992

The following items represent the significant activities and achievements related to the FUSRAP St. Louis Site for the period January-March 1992:

- All Federal Facilities Agreement milestone activities were completed on or ahead of schedule:
 - (1) The final draft of the Remedial Investigation Report for the St. Louis Site, as well as responses to comments from EPA and the Missouri Department of Natural Resources (MDNR) on the initial draft of the report, were submitted to EPA on January 13. In March, EPA accepted the document as final, pending resolution of issues related to the field sampling plan and the quality assurance project plan.
 - (2) In February, the draft Initial Screening of Alternatives (ISA) was completed and forwarded to EPA and MDNR for review.
 - (3) Drafts of the Field Sampling Plan for the Remedial Investigation/Feasibility Study-Environmental Impact Statement for the St. Louis Site and the Quality Assurance Project Plan for the Remedial Investigation/Feasibility Study-Environmental Impact Statement for the St. Louis Site were issued to EPA on March 31. These documents support data-gap sampling planned for this summer.
- DOE conducted a NEPA/CERCLA public planning and scoping meeting related to the work plan for the RI/FS-EIS. There were extensive efforts to notify the public of the meeting, including a Federal Register Notice, a display advertisement in the *St. Louis Post Dispatch*, a news release issued by DOE announcing the meeting, and mailed announcements sent to

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the approximately 300 people on DOE's St. Louis Site mailing list. In addition, DOE sent copies of the work plan and the community relations plan to approximately 35 public and state officials and other interested parties.

The scoping meeting was held at the Berkeley Senior High School in Berkeley, Missouri (within two miles of HISS and SLAPS) on January 28. Approximately 250 persons attended the meeting, with 30 private citizens and 16 public officials making statements for the record. In addition, approximately 35 written statements on the work plan were received during a thirty day public comment period that ran from January 8 through February 7.

- DOE approved the finding of no significant impact related to expanding the capacity of the Hazelwood Interim Storage Site. DOE also approved issuance of the engineering evaluation/cost analysis-environmental assessment (EE/CA-EA) for cleanup of SLAPS/Latty Avenue vicinity properties for public comment.
- DOE issued an action memorandum authorizing limited removal actions at SLDS to facilitate Mallinckrodt operations and maintenance. This action memorandum also authorized storage of contaminated materials in Building 116 at SLDS.
- Work was completed on the upgrade of Building 116 at SLDS for use as an interim storage location. The building was cleaned, sealed, and prepared for acceptance of waste generated during removal actions. During the quarter, approximately 25 low specific activity (LSA) boxes of material were consolidated in the building for interim storage.
- On February 13, representatives of FUSRAP and Mallinckrodt met to establish a protocol for personnel protection, work coordination, and the handling of radioactive material at SLDS.
- DOE provided Mallinckrodt with technical assistance in several areas during the quarter:
 - (1) Radiological assistance was provided to Mallinckrodt on several occasions during the quarter to support renovations to a laboratory complex in Building 25. The work involved asbestos abatement and cleanup of radioactive materials. Contaminated materials are being stored in Building 116.
 - (2) Mallinckrodt removed and replaced contaminated floor drains beneath the slab in Building 50. Contaminated pipe was placed into interim storage; contaminated soil was backfilled into the excavation.

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- (3) FUSRAP personnel conducted radiological surveys to help Mallinckrodt and the Laclede Gas Company repair a leaking gas main in a contaminated area of the site along Destrehan Street between Plants 6 and 7W.
- (4) Mallinckrodt completed removal of a tank, an evaporator, and structural steel from Building 50. The large components were surveyed at Building 50 for release. Miscellaneous structural debris was moved to Building 116 so that radiological surveys could be performed at a later date.
- (5) Radiological support was provided to Mallinckrodt and its drilling subcontractor. Mallinckrodt is performing geological studies of the St. Louis Downtown Site in preparation for construction of a new laboratory, machine shop, and RCRA-waste storage facility. Only the location of the proposed RCRA-waste storage facility is in an area of known contamination.
- Raytheon Corporation, under contract to the Federal Aviation Administration, completed a wind shear radar installation west of the intersection of Frost and Eva avenues. Soil sampling conducted at the proposed location of the radar tower indicated that no contamination was present. Following construction, the as-built location of the tower was confirmed to lie in the area sampled, and Raytheon was notified that it could dispose of the excavated soil without further controls.
- Assistance was provided to the City of St. Louis in determining the location for a bike path through the riverfront area adjacent to SLDS. The route for the bike path involved passage along the eastern boundary of the Mallinckrodt facility, which has some areas of low-level soil contamination. DOE performed radiological surveys along an active service road and along the dike that protects the area from flooding by the Mississippi River. The surveys indicated that there was a continuous path through the area with surface radiation readings at background levels. On March 14, the city sponsored a bicycling event along the riverfront and routed the event through the "background level" path that had been identified.
- Sediment samples were collected along a section of Coldwater Creek 4.5 miles downstream from SLAPS to support construction activities planned by the St. Louis Metropolitan Sewer District. Results of the sampling indicated that there was no sediment containing contamination above DOE's cleanup guidelines in the proposed work area.
- The owners of SLAPS vicinity properties were contacted regarding access to their properties for future removal actions. The property owners were told that cleanup could begin as early as this summer. Civil

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surveys of the properties were completed; these surveys will form the basis for detailed engineering design of the removal actions and will provide the basis for pre-RA radiological surveys and access agreements.

- To complement their science curriculum, 25 fifth-grade students from Grace Chapel Lutheran School in St. Louis visited the DOE Information Office in St. Louis on February 19. The students viewed the FUSRAP video, heard a presentation about radiation and the atom, and participated in a discussion about the St. Louis Site.

During this quarterly period, environmental sampling consisted of the routine quarterly monitoring, sampling of storm water at HISS, and some limited radiological surveys and sampling of materials at SLDS. A summary of these activities is enclosed. As always, all raw data and analyses are available for your review and inspection to the extent that you request.

During the second quarter of 1992 (April-June), DOE will submit the following items for EPA review:

- The final draft of the Baseline Risk Assessment will be submitted in May.
- The final draft of the Initial Screening of Alternatives (ISA) for the St. Louis Site will be submitted in June.

Please advise if you have questions or comments regarding this quarterly report.

Sincerely,



David G. Adler, Site Manager
Former Sites Restoration Division

cc: D. Bedan, MDNR
H. Hickman, M&E

Summary of First Quarter
Sampling and Analysis, 1992

The following is a summary of environmental data collected for FUSRAP sites in St. Louis. The three sites are the Hazelwood Interim Storage Site (HISS), the St. Louis Airport Site (SLAPS), and the St. Louis Downtown Site (SLDS). A total of 67 samples were collected during the first quarter of 1992 and submitted for various radionuclide and chemical analyses and exposure measurements, in total 25 different analyses were performed on the samples. It should be noted that all groundwater, surface water, sediment, radon, and external gamma data reported for HISS and SLAPS were collected as part of the existing environmental monitoring program. Specific information on the locations of sampling and results from past monitoring events are available in the published annual site environmental monitoring reports for these sites.

Radon

All radon samples were collected as part of the on going environmental monitoring program. At HISS thirteen radon measurements were collected from twelve locations. Of the thirteen measurements taken, five were on-site; five were from along the property line; two were collected from background locations, and one was a field duplicate. All analytical results for radon concentrations at HISS were consistent with results from previous sampling efforts. At SLAPS twelve radon measurements were collected from eleven locations. Of the twelve measurements taken, one was a field duplicate and three were collected from background locations. All analytical results for radon concentrations at SLAPS were consistent with results from previous sampling efforts.

External Gamma

All external gamma radiation samples were collected as part of the on going environmental monitoring program. At HISS thirteen external gamma radiation measurements were collected at twelve dosimetry locations. Of the thirteen external gamma radiation measurements taken, five were on-site; five were from along the property line; two were collected from background locations, and one was a field duplicate. All analytical results for external gamma measurements at HISS were consistent with results from previous sampling efforts.

At SLAPS twelve external gamma radiation measurements were collected from eleven dosimetry locations. Of the twelve measurements taken, one was a field duplicate and three were collected from background locations. All analytical results for external gamma measurements at SLAPS were consistent with results from previous sampling efforts.

Storm Water

As part of the National Pollutant Discharge Elimination System (NPDES) compliance program at HISS and as required by the NPDES permit (MO-0111252), four storm water discharge samples were collected at two locations during two separate storm events in February and March. The samples were analyzed for eight radiological parameters, twelve chemical indicator parameters, and general water condition parameters (temperature, pH, specific conductance, etc). Results from HISS storm water discharge were consistent with results from previous sampling events except for radionuclide concentrations which were generally lower. At all times radionuclide concentrations were at least an order of magnitude below the DOE Derived Concentration Guideline (DCG) values. The DCG is a reference value calculated in DOE Order 5400.5 and represents the concentration that would give a member of the general public a dose of 100 millirem per year. Settleable solids were also lower than previous sampling results. All samples were below the laboratory detection limit of 0.50 mL/L/hr. The reduction in the radionuclide and settleable solids is believed to be due to the reseeding and stabilization of exposed soil areas that had contributed to higher amounts of suspended particles during previous sampling events. A detailed report on storm water sampling and results will be forwarded under separate cover.

Radiological Characterization

The following samples were collected at SLDS in support of the effort to characterize contamination levels. Ten soil samples were collected and analyzed for total uranium, thorium-232, thorium-230, and radium-226. Three surface water samples were collected and analyzed for gross alpha and gross beta contaminations.

Material that was being disturbed or generated as part of construction and maintenance operations was surveyed and evaluated against appropriate DOE guidelines. Material exceeding guidelines was collected and stored on-site by DOE personnel to prevent any further spread of contamination at SLDS. After decontamination, the material will be resurveyed and compared to guidelines. During the first quarter of 1992 fourteen surveys were performed on equipment and material from building 25 and seven from building 50. Material and equipment found to be contaminated (approximately five percent from building 25 and eighty percent from building 50) has been collected and stored on-site awaiting decontamination or future disposal.

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ADMINISTRATIVE RECORD

for the St. Louis Site, Missouri



U.S. Department of Energy