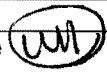


TA 50
SWMUs 50-004(c) and 50-011(a)

RISK REDUCTION AND ENVIRONMENTAL STEWARDSHIP REMEDIATION PROGRAM
ORAL COMMUNICATION RECORD

Date: 05/20/03	Time: 2:00 p.m.	Recorded By: P. Bertino
To: Vickie Maranville 	From: P. Bertino	Telephone No.: 665-2198

Affiliation: NMED-HWB

Other Parties:
 John Young, NMED-HWB
 John Hopkins, LANL RRES-R and Woody Woodworth OLASO

Discussion This communication record (including all referenced information previously provided to NMED-HWB) documents discussion topics and agreements reached during the May 7, 2003 meeting and subsequent telephone conversation on May 12, 2003, between Vickie Maranville, NMED-HWB and Paula Bertino, RRES-R regarding planned RFI activities at SWMUs 50-004(c) and 50-011(a) at TA-50. During the meeting and telephone conversation, the following information was presented and/or discussed:

During the summer 2003, LANL will construct a new pump house and influent storage tank vault and install new radioactive liquid waste transfer lines at the Radioactive Liquid Waste Treatment Facility (RLWTF) at TA-50 to mitigate risks demonstrated by the Cerro Grande fire in May 2000. Upon completion of this construction, access to SWMUs 50-004(c) and 50-011(a) will not be feasible due to the unacceptable risks associated with disturbing the new RLW lines and the presence of the new influent pump house and tank vault. Therefore, the RRES-R Program is planning to collect confirmation samples to complete the RFI of SWMUs 50-004(c) and 50-011(a) while access to these sites is still available.

Former SWMU 50-004(c) consists of 13 industrial waste lines (44, 45, 45a, 46, 47, 48, 48a, 49, 54, 55, 56, 65, and 67) and three associated manholes (structures 50-6, -55, and -56) that discharged to a decommissioned underground vault (structure 50-3). All of the waste lines and manholes associated with former SWMU 50-004(b) were removed between 1981 and 1989, with the exception of waste line 56, which remains in service. During decommissioning of the radioactive liquid waste lines; excavated soils were characterized for radioactive constituents and remediated to meet ALARA levels. During the 1994 RFI, 67 subsurface soil samples were collected from 29 boreholes located 100 feet apart along the former waste line trenches in accordance with the approved RFI work plan for Operable Unit 1147. All 67 samples were analyzed for TAL metals and radionuclides, and eight of the samples were also analyzed for VOCs, SVOCs and PCBs. Analytical results presented in the February 1996 RFI report show that no SVOCs or PCBs were detected, and only the VOC methylene chloride was detected in two samples from different sample locations (Location IDs 50-03020 and 50-03016) and depths at concentrations of 15 and 17 parts per billion (ppb), respectively (LANL 1996, LA-UR-96-148). The extent of inorganic and radionuclide contamination was not fully determined. Supplemental characterization analytical results for samples collected from geotechnical boreholes advanced in 2001 for the planned construction of the new pump house and tank vault at TA-50 showed no detected SVOCs, PCBs, or VOCs, while radionuclides and inorganics were detected at low concentrations.

SWMU 50-011(a) is the location of decommissioned septic system. The infiltration shaft associated with this system is the only remaining component. Currently, the former location of the leach field and the section of the effluent line between the former septic tank and the leach field are the only portions of the old system not covered by a storage building (Building 50-83). These areas are beneath an asphalt pad located between the pumping station (Building 50-2) and the slab for Building 50-83. The 50-ft-deep shaft is currently located beneath the southeast corner of slab for Building 50-83. During the 1994 RFI, seven subsurface soil samples were collected from four 10-ft-deep vertical boreholes. All seven samples were analyzed for TAL metals and radionuclides, and three of the samples were also analyzed for VOCs, SVOCs and PCBs. Analytical results presented in the February 1996 RFI report show that no SVOCs or PCBs were detected. Acetone was detected in all three samples at concentrations 59 to 88 ppb, and 2-butanone was detected in one sample at 27 ppb. The extent of inorganic and radionuclide contamination was not fully determined. Supplemental characterization analytical results for samples collected from geotechnical boreholes advanced in 2001 for the planned construction of the new pump house and tank vault at TA-50 showed no detected SVOCs, PCBs, or VOCs, while radionuclides and inorganics were detected at low concentrations.



Prior to initiation of construction activities at TA-50, the LANL RRES-R Program plans to collect approximately 21 subsurface soil/tuff samples from about 15 additional RFI boreholes at accessible sections of the former waste lines and manholes associated with SWMU 50-004(c). Nine of the boreholes will be sited at previous RFI borehole locations and the remaining six boreholes sited at new locations. Based on data presented in the 1996 RFI report and conversations between NMED-HWB and LANL RRES-R staff on May 7 and 12, 2003, it was determined that the analytical suite for the confirmation RFI samples to be collected from SWMU 50-004(c) would not include VOCs, SVOCs or PCBs. The analytical suite for the confirmation RFI samples from SWMU 50-004(c) will include TAL metals, cesium-137 and americium-241 by gamma spectroscopy, tritium by liquid scintillation, isotopic plutonium, isotopic uranium, and perchlorates. In addition, the RRES-R Program plans to collect four subsurface soil/tuff confirmation samples from two new borehole locations within the former leach field associated with SWMU 50-011(a). Based on data presented in the 1996 RFI report and conversations between NMED-HWB and LANL RRES-R staff on May 7 and 12, 2003, it was determined that the analytical suite for the confirmation samples to be collected from SWMU 50-011(a) would not include SVOCs or PCBs. The analytical suite for the confirmation RFI samples from SWMU 50-011(a) will include VOCs, TAL metals, cesium-137 and americium-241 by gamma spectroscopy, tritium by liquid scintillation, isotopic plutonium, isotopic uranium, and perchlorates.

The RRES-R program also plans to collect confirmation RFI soil/tuff samples from two depth intervals for both SWMUs from the bottom of the excavation for the new pump house and influent tank vault which is expected to be between 25 and 35 feet below the current grade. This sampling event will take place in mid- to late-summer 2003. The analytical suites described above for each SWMU, will be applied to the confirmation samples collected from the bottom of the excavation.

Note: Borehole locations and number of samples may change due to site access issues and unknown field conditions. Actual borehole locations and sample numbers and collection depths will be documented in the future RFI report for these SWMUs.

Action Items:

Deliver communication record for Vickie Maranville to initial and distribute the record. Thoroughly document all deviations from the approved RFI Work Plan, the Sampling and Analysis Plan Addendum to the Operable Unit 1147 RFI Work Plan, and the implementation of decisions agreed to herein in the future RFI report for SWMUs 50-004(c) and 50-011(a).

Distribution:

V. Maranville & J. Young, NMED-HWB *MM 5-20-03*
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