5101

CERTIFICATION DESIGN LETTER FOR AREA 9, PHASE II

FERNALD CLOSURE PROJECT
FERNALD, OHIO

OCTOBER 2003

U.S. DEPARTMENT OF ENERGY
FERNALD AREA OFFICE

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REVISION B
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LIST OF ACRONYMS AND ABBREVIATIONS

A1PI	Area 1, Phase I
A1PII	Area 1, Phase II
A9PI	Area 9, Phase I
A9PII	Area 9, Phase II
ASCOC	area-specific constituent of concern
ASL	analytical support level
BTV	Benchmark Toxicity Value
CDL	Certification Design Letter
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COC	constituent of concern
CRDL	contract required detection limit
CU	certification unit
DOE	U.S. Department of Energy
FCP	Fernald Closure Project
FRL	final remediation level
HPGe	high-purity germanium (detector)
HWMU	hazardous waste management unit
IEMP	Integrated Environmental Monitoring Program
IRDP	Integrated Remedial Design Package
MDL	minimum detection level
mg/kg	milligrams per kilogram
NaI	sodium iodide
OU3	Operable Unit 3
OU5	Operable Unit 5
PCE	tetrachloroethene
pCi/g	picoCuries per gram
ppb	parts per billion
ppm	parts per million
PSP	Project Specific Plan
RA14	Removal Action 14
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
SED	Sitewide Environmental Database
SEP	Sitewide Excavation Plan
STP	Sewage Treatment Plant
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
TEF	Toxicity Equivalence Factor
UCL	Upper Confidence Limit
μg/g	microgram per gram
VOC	volatile organic compound

EXECUTIVE SUMMARY

This Certification Design Letter (CDL) describes the certification approach for Area 9, Phase II (A9PII). The following information is included:

- The boundaries (Figure 1-1) and a description of the area to be certified under the guidance of this CDL;
- A presentation of historical and precertification data from the area proposed for certification;
- A discussion of the area-specific constituent of concern (ASCOC) selection process and list of ASCOCs assigned to A9PII;
- A presentation of the certification unit (CU) boundaries and proposed sampling strategy;
- The analytical requirements and the statistical methodology that will be employed; and
- The proposed schedule for the certification activities.

A9PII consists of 12.6 off-property acres and is located south of Area 9, Phase I (A9PI) and east of Area 1, Phase II (A1PII). A9PII also includes 0.29 acres that is located north of Area 1, Phase I (A1PI) between the northern Fernald Closure Project (FCP) fence line and State Route 126. Off-property certification is to take place after the adjacent portion of the FCP property is remediated and certified as attaining final remediation levels (FRLs) for all ASCOCs. Certification of A1PI was completed in mid-1998, while A1PII was completed in early 2000. Based on a background soil study conducted in 1992, a supplemental background soil study conducted in 2000, and the precertification investigation of A9PII conducted from October 2002 through March 2003, it has been determined by the U.S. Department of Energy (DOE) that no further remediation activities are required for this particular area and certification activities may begin. The background soil study and supplemental background soil study results are summarized in the A9PI Precertification Summary Report (DOE 2000b). Real-time scanning and physical sampling results from precertification activities of A9PII are presented in this CDL.

The certification design presented in this CDL follows the general approach outlined in Section 3.4 of the Sitewide Excavation Plan (SEP, DOE 1998) and SEP Addendum (DOE 2001a). The selection of A9PII ASCOCs was accomplished using constituent of concern (COC) lists in the Operable Unit 5 Record of Decision (DOE 1996), and is also based on COCs from adjacent on-property A1PII. A total of eleven CUs have been established to cover the A9PII certification area. The CU design was based on the precertification

data, physical area features, land use, and topography of each area. Certification sampling fieldwork began in March 2003 and the Certification Report will be issued in the fall of 2003.

1.0 INTRODUCTION

This Certification Design Letter (CDL) describes the certification approach for demonstrating that soil in Area 9, Phase II (A9PII) meets the final remediation levels (FRLs) for all area-specific constituents of concern (ASCOCs). The format of this CDL follows guidelines presented in the Sitewide Excavation Plan (SEP, DOE 1998). Accordingly, this CDL consists of six sections:

1.0 Introduction - Presentation of the purpose, objectives, and scope of this CDL

2.0 Historical and Precertification Data - Presentation and discussion of historical soil data, recently collected precertification real-time scan and physical sampling data from A9PII [includes a summary of Removal Action 14 (RA14) as well as the Precertification Hot spot Excavation]

3.0 Area-Specific Constituents of Concern - Discussion of selection criteria and ASCOCs for A9PII

4.0 Certification Approach - Presentation of design, sampling and analytical methodologies

5.0 Schedule

References

Due to limited access agreements with the property owner, DOE requested approval from EPA and OEPA to begin sampling activities at risk according to the disapproved draft PSP. Since the CU design was previously reviewed and approved, verbal approval to begin sampling at risk was granted in March of 2003. If these data collected from the sampling in March meet all certification data requirements as presented in this CDL, the data will be used for certification decisions.

The duration to revise this CDL was extended due to the decisions regarding whether or not dioxins and/or furans are constituents of concern (COCs) for A9PII.

1.1 OBJECTIVES

The primary objectives of this document are to:

- Define the boundaries of the area to be certified under the guidance of this CDL;
- Present historical data collected from within the area proposed for certification;
- Define the ASCOC selection process and list the selected A9PII ASCOCs;

- Present the certification unit (CU) boundaries and proposed certification sampling strategy;
- Summarize the analytical requirements and the statistical methodology that will be employed; and
- Present the proposed schedule for the certification activities.

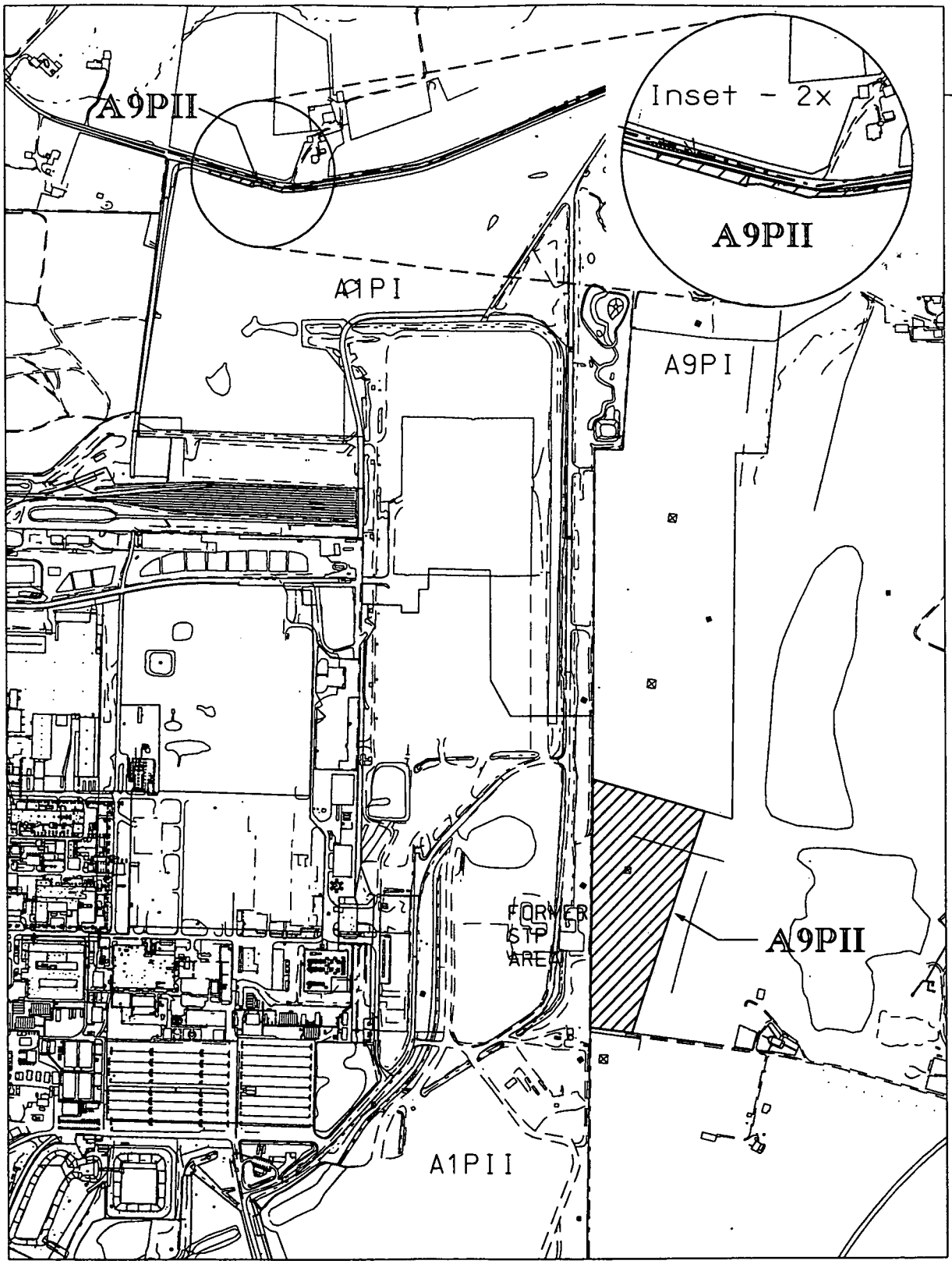
1.2 SCOPE AND AREA DESCRIPTION

A9PII is a 12.6-acre parcel of off-property land that is south of Area 9, Phase I (A9PI) and east of Area 1, Phase II (A1PII), located along the eastern property boundary of the Fernald Closure Project (FCP). Consistent with the SEP, off-site property immediately adjacent to an on-property area that was remediated will require certification. A1PII was remediated and certified between 1998 and 2000. The boundary for A9PII located east of the FCP is shown on Figure 1-1. The topography for A9PII located east of A1PII is shown on Figure 1-2. The RA14 Excavation Footprint and Precertification Hot spot Excavation Footprint are shown on Figure 1-3.

A9PII also includes 0.29 acres located north of Area 1, Phase I (A1PI) and is located between the northern FCP fence line and State Route 126. As discussed in the Area 1, Phase I Certification Report (DOE 1998), during initial certification efforts of the adjacent A1PI CU O-20, two separate issues caused failure of the CU. The first was due to a total uranium hot spot identified during certification activities and real-time confirmation scanning. The hot spot was a result of metal debris found in the area and not aerial deposition. The hot spot was subsequently delineated and excavated, and an additional certification sample was collected. The second issue was a high data variability for radium-228 which was the result of an elevated radium-228 result. To increase the confidence level, additional random samples for radium-228 were sampled and analyzed, and when the additional data was integrated with the original data set, the UCL on the mean met the FRL. Following the uranium hot spot removal and additional sampling for radium-228, CU O-20 was certified. As a response to the USEPA on Specific Comment #4 to the draft A1PI Certification Report, DOE stated that additional samples would be collected north of CU O-20. This part of A9PII, which is located within the FCP property boundary, will serve as a buffer between A1PI and off-property, and the boundary is shown on Figure 1-1.

Based on the results of the precertification real-time scans and physical sampling data, the background soil study, and the supplemental background soil study, no further soil excavation is anticipated for the A9PII certification area. The certification strategy will vary slightly from Approach E, as specified in the SEP, because much of the soil in A9PII has been plowed, thus eliminating the original surface layer of soil.

Although the SEP defines the general requirements for certification, there are some undefined details for off-property certification due to various land-use conditions and potential requests of property owners, which will require regulatory approval in order to complete the certification. There is also a need to evaluate subsurface soils to ensure that cultivation of the soil has had no impact below the plowed zone. The strategy for subsurface soil certification is outlined in an addendum to the SEP, Section 3.4.8 (DOE 2001a). An Integrated Remedial Design Package (IRDP) is not required.



LEGEND:

AREA 9, PHASE II CERTIFICATION BOUNDARIES

FEMP BOUNDARY

SCALE

800 400 0 800 FEET

DRAFT

FIGURE 1-1. AREA 9, PHASE II LOCATION MAP

v:\5cj31\dgn\bmp\a9p2_011.dgn
STATE PLANAR COORDINATE SYSTEM 1983
01-OCT-2003

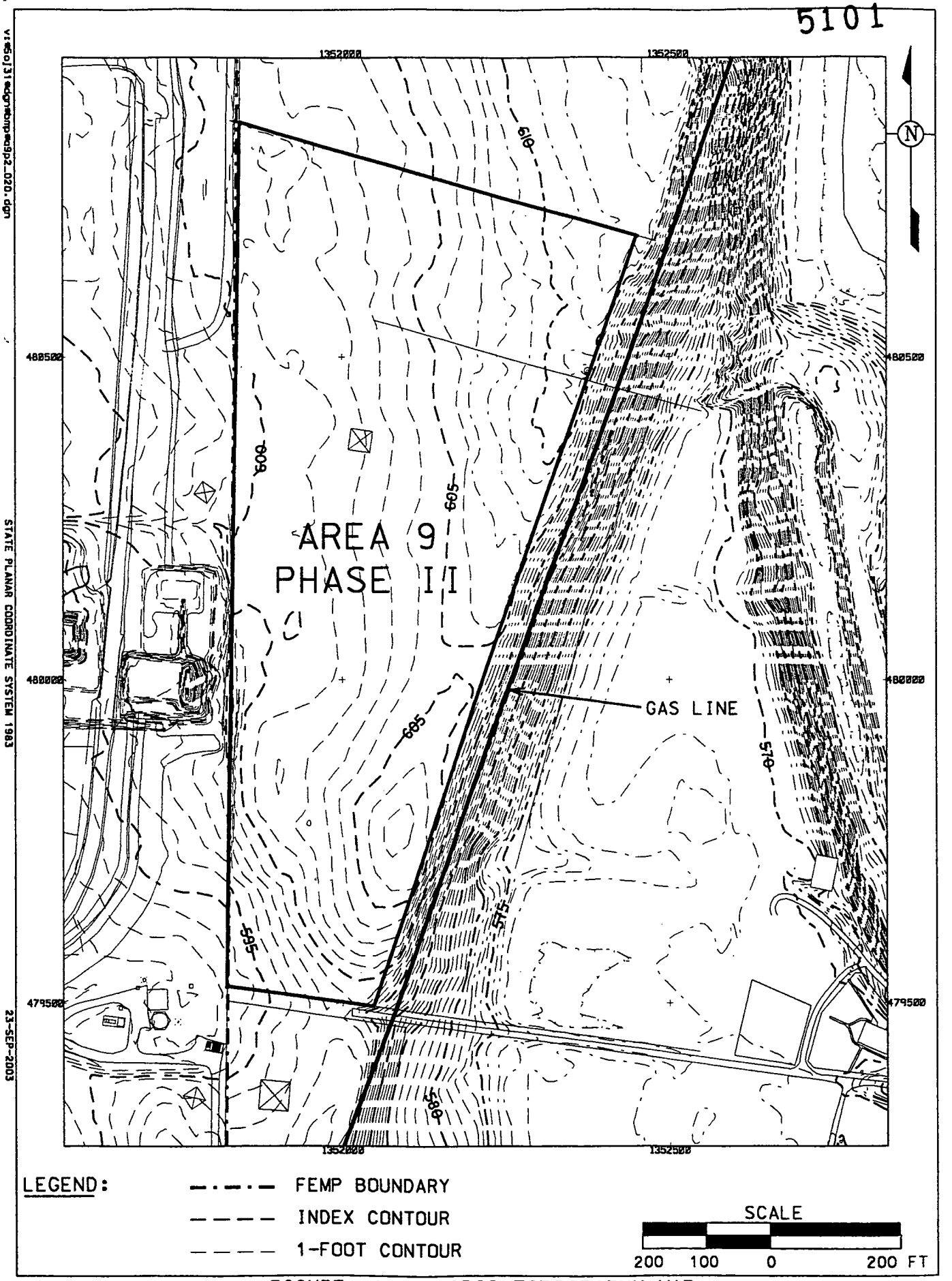


FIGURE 1-2. A9PII TOPOGRAPHY MAP

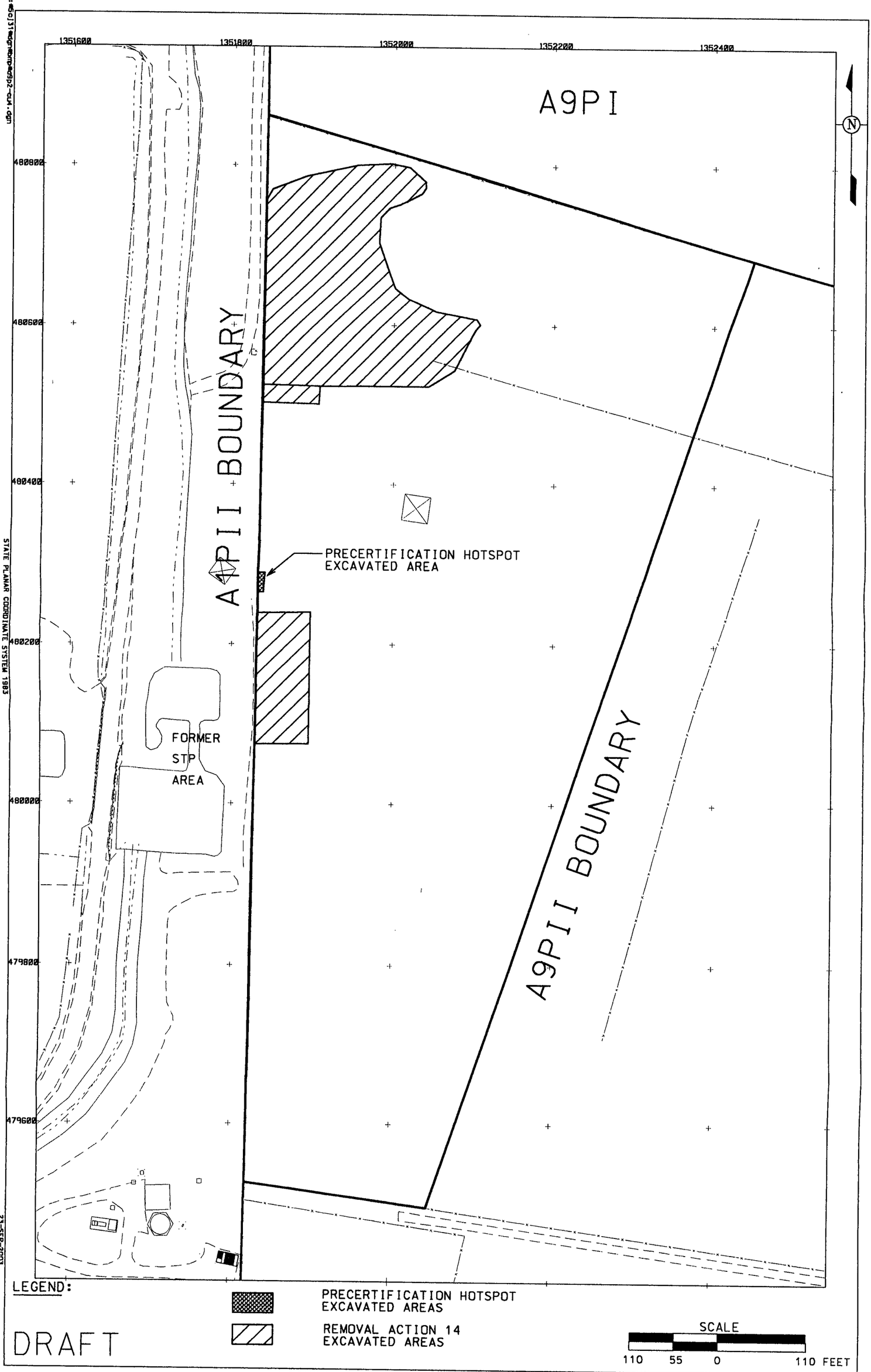


FIGURE 1-3. A9PII EXCAVATED AREAS

2.0 HISTORICAL AND PRECERTIFICATION DATA

The purpose of precertification scanning and physical sampling activities within A9PII was to determine if the area was ready for certification. Data have also been collected from A9PII as part of the Remedial Investigation/Feasibility Study (RI/FS) Work Plan in 1988, the RI/FS for Operable Unit 3 (OU3, DOE 1995), RA14, predesign investigations at the former Sewage Treatment Plant (STP, DOE 1997), and during sampling conducted as part of the Integrated Environmental Monitoring Program (IEMP). Additionally, a Background Soil Study (DOE 1993) and a Supplemental Background Soil Study (DOE 2001b) had been previously conducted for comparison purposes of soils ranging from the 0 to 54-inch depth interval. Based on the results of all the above sampling events, it was determined that no further excavation would be required prior to certification of A9PII. The following section further summarizes the data collection chronology.

2.1 HISTORICAL DATA

Before initiating the certification process, all pertinent historical soil data relative to A9PII were pulled from the Sitewide Environmental Database (SED).

The historical sample data that represent the current field conditions within A9PII located north of A1PI are associated with the RI/FS Work Plan from 1988 (DOE 1988) and are presented in Appendix A of this CDL. The historical sample locations that represent the current field conditions within the portion of A9PII located east of A1PII are associated with the RI/FS Work Plan in 1988, the RI/FS for Operable Unit 3, RA14, predesign investigations at the former STP, and IEMP sampling. These data, along with a map, are presented in Appendix A of this CDL.

2.1.1 RI/FS Sampling

Limited surface sampling was conducted under the original RI/FS Work Plan in 1988 and as part of the OU3 RI/FS in late 1991 and early 1992. Figure 2-1 shows the locations of all RI/FS samples collected within A9PII and a review of the sample results indicated some radionuclide results to be above-FRL. The majority of the sample locations, however, were in areas associated with during Removal Action 14 and subsequently excavated (see 2.1.2).

2.1.2 Removal Action 14 Sampling

In 1992, a Removal Action Work Plan was submitted to and approved by the Environmental Protection Agency to address Removal Action 14, Contaminated Soils Adjacent to the Sewage Treatment Plant Incinerator (DOE 1992). The objectives of the removal action were to reduce potential contaminant migration to previously uncontaminated areas and to minimize the potential for unacceptable exposures to human or environmental receptors. An excavation action level was established to remove soil from off-property if uranium contamination was greater than 35 pCi/g. Since FRLs were not established until 1996, other radionuclides or chemical contaminants were not targeted for excavation during RA14.

In 1993 and 1994, RA14 excavation activities extended off-property to two plots of land within A9PII that are immediately adjacent to the FCP (see Figure 1-2). The locations of samples collected in support of pre- and post-RA14 activities are presented on Figure 2-2. The final report for RA14, Removal Action No. 14, Contaminated Soils Adjacent to the Sewage Treatment Plant Incinerator (DOE 1994), indicated that the excavation area located directly adjacent to the STP (referred to as Zone III in the RA14 final report) was backfilled following post excavation soil sampling. The final report does not, however, indicate that the excavation area located north of the STP (referred to as Zone IV in the final report) was backfilled following post excavation sampling.

2.1.3 Predesign Investigations at the Former Sewage Treatment Plant

In preparation for the A1PII IRDP and to fill data gaps in the RI/FS data set, predesign investigations were conducted in 1997 around the STP. Samples were collected for radionuclides, including uranium and technetium-99, and metals. Samples for volatile organic compounds (VOCs) were also collected for analysis since the STP included a sludge drying bed unit, which was a regulated hazardous waste management unit (HWMU #41). The HWMU contained low levels of tetrachloroethene (PCE), which is a Resource Conservation and Recovery Act (RCRA)-listed spent solvent.

The predesign investigations sampling efforts included three borings into A9PII across from the STP (see Figure 2-3). The borings were sampled for uranium and metals in order to confirm that the off-property fill material used in RA14 did not contain contamination. The sampling results from the borings indicated that uranium concentrations in off-property soil were below the established off-property FRL. Two borings exhibited above off-property FRL results for beryllium [0.91 milligrams per kilogram (mg/kg) and 0.69 mg/kg]. Samples were not collected for PCE, but RI/FS data indicated the compound to be below the established off-property FRL.

2.1.4 IEMP Sampling

Further radiological sampling was conducted in 2001 as part of the IEMP. Five borings were sampled for the primary radiological constituents of concern (COCs) plus thorium-230. Most of the sample locations were within those portions of A9PII that were previously excavated under RA14. No above-FRL results were detected as depicted on Figure 2-4.

2.2 BACKGROUND AND SUPPLEMENTAL SOIL STUDIES

During soil precertification and predesign sampling of A9PI, performed from January through July 2000, arsenic, beryllium, and radium-226 concentrations were identified in the 12 to 36-inch depth intervals above background concentrations established through the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)/RCRA Background Soil Study conducted in 1992 (DOE 1993). The A9PI step one precertification/predesign sampling program targeted the ASCOCs from the surface down to 36 inches due to the potential for soil blending during cultivation and crop farming.

The background study, conducted in 1992, characterized potential contaminants in depth intervals 0 to 6 inches, 36 to 42 inches, and 48 to 54 inches. The background concentrations established during the 1992 Background Study were based on soil samples collected from depth intervals above and below the soil layer (12 to 36 inches) that were found to contain the elevated concentrations of ASCOCs in A9PI. It was assumed that the 0 to 6-inch interval would have the highest concentrations of any contaminant due to the potential influence of past atmospheric radiological fallout. While the premise of the 1992 Background Study was appropriate for determining the natural soil weathering impacts through various soil zones and anthropogenic influences on surface and subsurface soils, the A9PI data indicated that the previous background results may not sufficiently characterize or capture the full range of background soil conditions of the inorganic constituents and radium-226 below the ground surface.

A Supplemental Background Study was completed in August 2000 (DOE 2000a) with the objective to examine ASCOC concentrations between 12 and 36 inches in areas uninfluenced by past Fernald emissions and compare them to A9PI subsurface soil concentrations. The sampling was designed to assess the concentrations of the selected ASCOCs in farm fields having soil characteristics and past land uses similar to A9PI. This was necessary to distinguish any FCP-related contamination from naturally occurring or other anthropogenic sources on crop-producing lands such as A9PI and A9PII. Selected COCs analyzed for in the

1992 study were analyzed for in the supplemental study to provide a complete set of new data for comparison purposes and a complete analysis of the 12 to 36-inch interval.

In general, the new background surface (0 to 6 inches) concentrations for arsenic, beryllium, radium-226, and total uranium are consistent with the old background surface concentrations. Arsenic, beryllium and radium-226 background subsurface soil concentrations are generally higher than surface concentrations and peak at the 12 to 24-inch depth interval. Based on the Supplemental Background Study, average background concentrations of beryllium exceed the off-property FRL. Unlike arsenic, beryllium and radium-226, background uranium surface soil concentrations are slightly higher than subsurface concentrations. Details and data from the Supplemental Background Soil Study are included in the A9PI Precertification Summary Report (DOE 2000b).

In March 2001, an addendum was made to the SEP (Section 3.4.8) to address precertification and certification activities of off-site properties surrounding the FCP that need to be certified and are currently being cultivated or have previously been cultivated. Evaluations of subsurface (i.e., below 6 inches) soil concentrations of selected COCs in these areas are required to determine whether cultivation had any influence on the distribution of FCP-introduced COCs. As a result, cultivation soil certification involves the following: 1) evaluations against impacted soil FRLs (i.e., FRL certification) in the surface layer, or potentially impacted zone, and 2) baseline confirmation sampling in the subsurface, below the potentially impacted zone at various depths, to statistically demonstrate that it is not impacted as compared to background conditions. FRL certification and baseline confirmation samples can be collected and analyzed at the same time.

2.3 PRECERTIFICATION PHYSICAL SAMPLE DATA

In February 2003, precertification physical samples were collected from A9PII located east of the FCP (see Figure 2-5). Four locations in the northeastern unplowed, wooded area and four locations in the cultivated area were sampled and analyzed according to a variance/field change notice (V/FCN) written to the PSP for A9PII Precertification Real-Time Scan (DOE 2002). The samples were collected from the wooded area because weather had impacted the use of real-time equipment to complete scanning of the area. These were collected to a depth of 6-inches and analyzed for total uranium. All results were below the FRL of 50 mg/kg. Subsequent to the collection of the physical samples, real-time scanning was completed in March 2003. Samples collected from the cultivated area were to determine if cultivation had any influence on the distribution and concentrations of ASCOCs. The borings located in the cultivated area were each advanced to

a depth of 36-inches. Samples were collected at each 6-inch interval throughout the boring and analyzed for the list of constituents identified in Table 2-1.

TABLE 2-1

CONSTITUENT LIST FOR A9PII CULTIVATED AREA PRECERTIFICATION PHYSICAL SAMPLING

Constituent	Off-Property FRL (BTV)
Total Uranium	50 mg/kg
Radium-226	1.5 pCi/g
Radium-228	1.4 pCi/g
Thorium-228	1.5 pCi/g
Thorium-232	1.4 pCi/g
Technetium-99	1.0 pCi/g
Antimony	0.61 mg/kg
Arsenic	9.6 mg/kg
Beryllium	0.62 mg/kg
Lead	400 mg/kg (200 mg/kg)
Molybdenum	13 mg/kg (10 mg/kg)
Aroclor-1254	0.04 mg/kg
Aroclor-1260	0.04 mg/kg
Tetrachloroethene	1.0 mg/kg

The results from the analysis of soils from the cultivated area were below the off-property FRL for all of the constituents except for arsenic, beryllium, and antimony. Arsenic and beryllium were elevated in the subsurface soil while antimony was elevated in both surface and subsurface. The results for arsenic (ranging from 3.9 to 15.7 mg/kg), beryllium (ranging from 0.34 to 1.5 mg/kg), and antimony (ranging from 0.34 to 1.3 mg/kg) were evaluated against data from the Supplemental Background Soil Study, and results from the precertification physical samples were found to be consistent with results from the Supplemental Background Soil Study.

Further review of historical total uranium data in Appendix A (from revision A of this CDL) noted four locations (RVA14-427, ZONE 3-246, ZONE 3-207, and ZONE 3-265) with greater than FRL (50 mg/kg)

results. Physical surface samples were collected at the four locations (renamed as A9P2-PC5, A9P2-PC6, A9P2-PC7, and A9P2-PC8, respectively) to verify the original results. The samples collected from A9P2-PC5, A9P2-PC7, and A9P2-PC8 were confirmed to be below the FRL but the fourth sample, A9P2-PC6, was greater than 2XFRL at 137 parts per million (ppm). Additional physical samples were collected and real-time scanning was performed to bound the total uranium hot spot. A plan was developed to excavate an area approximately 24' x 8' located in A9PII along the FCP fenceline and just northeast of the former STP. The excavation plan was outlined both verbally and in a letter to the agencies. Upon approval of the plan, approximately 12.6 cubic yards of soil was excavated from A9PII. Immediately following excavation, physical surface samples were collected from the floor of the excavated area and submitted for analysis. The samples were all below the FRL, ranging from 7.10 ppm to 19.7 ppm, and the area was backfilled with clean topsoil that was purchased from an offsite location. Appendix D includes data obtained for "hot spot" delineation as well as the scanning and physical sampling results following the "hot spot" removal. Figure D-1 shows the locations of the physical samples used to delineate the "hot spot"; Figure D-2 shows the location, boundary, and depth of the excavation area as well as the location of the post-excavation samples; and Figure D-3 shows the phase three measurements following "hot spot" removal.

Separately and in response to an Ohio Environmental Protection Agency (OEPA) request during their review of the draft CDL submitted in January 2003, dioxins and furans were also evaluated for their applicability as ASCOCs in A9PII. Samples were collected from 22 locations throughout A9PII, six from the wooded area and 16 from the cultivated area, and analyzed for 17 dioxins and furans. The sample locations are shown on Figure C-1. The results of these samples indicated the presence of several common congeners of dioxins and furans. However, the data were further evaluated using the current EPA guidance for evaluation of dioxins and furans. In short, this guidance directs the use of Toxicity Equivalence Factors (TEFs) that have been established to assess each congener against 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), as TCDD is the most toxic. The prescribed method is to multiply the reported concentrations of each dioxin/furan congener by its respective TEF and sum the results. However, as a conservative and simplified approach, the maximum concentration of each dioxin/furan in A9PII was multiplied by its respective TEF and the results were summed. The sum was compared to a limit of 1 part per billion (ppb). The result of this evaluation yielded 0.00209 ppb, which is significantly lower than the limit of 1 ppb and demonstrates that the levels of dioxins and furans in A9PII are well within the acceptable risk level. All results and calculations are presented in Appendix C and Table C-2 respectively. Based on this evaluation, it is determine that dioxins and furans do not need to be further investigated in A9PII as certification ASCOCs.

2.4 PRECERTIFICATION REAL-TIME SCAN DATA

In October 2002, precertification real-time scanning began in the cultivated portion of A9PII located east of A1PII. The real-time scan was conducted pursuant to the Project Specific Plan (PSP) for A9PII Precertification Real-Time Scan (DOE 2002). The scan was accomplished using the mobile sodium iodide (NaI) detectors and high-purity germanium (HPGe) detectors.

Data collected during the Phase 1 scan were for total gamma activity (as counts per second), total uranium, radium-226, and thorium-232. The total activity results showed no pockets of elevated total activity. Several Phase 1 NaI results for radium-226 and total uranium exceeded the three times the FRL (3xFRL) hot spot level, but Phase 2 HPGe readings were below 2xFRL. Thorium-232 results were below both the 3xFRL hot spot level for Phase 1 NaI readings and the 2xFRL criterion for Phase 2 HPGe readings.

Phase 2 HPGe readings obtained at locations exhibiting the highest total gamma activity were below 2xFRL for total uranium, thorium-232, and radium-226. All measurement results are included in Appendix B.

Precertification real-time scanning activities of the northeast corner of A9PII were completed in March 2003. Heavy underbrush made it difficult to perform real-time activities in this area. The underbrush also prohibited the use of the NaI detectors, therefore the HPGe detectors were used to conduct Phase I measurements. Data were collected for total gamma activity (as counts per second), total uranium, radium-226, and thorium-232. All results were below both the 3xFRL hot spot level for NaI readings and the 2xFRL criterion for Phase 2 HPGe readings. .The results are included in Appendix B

In addition to physical sampling, the HPGe detectors were also used to delineate the total uranium "hot spot" identified during precertification physical sampling activities. Upon excavation of the "hot spot", Phase 3 measurements were taken to confirm that no above-FRL uranium remained in the footprint of the excavated area. Appendix D includes data obtained for "hot spot" delineation as well as the Phase 3 measurements following the "hot spot" removal. Corresponding real-time maps, Figures D-1 and D-3, respectively, are also provided in Appendix D.

In November 2002 and October 2003, precertification real-time scanning was completed on the majority of the portion of A9PII located north of A1PI. Twenty-nine (29) Phase 1 readings were taken with the HPGe detector and all measurements were below 2xFRL for total uranium, thorium-232, and radium-226. The

highest values measured are 17 ppm for total uranium, 1.4 picoCuries per gram (pCi/g) for radium-226, and 1.1 pCi/g for thorium-232. The Phase I measurements were completed with the HPGe detectors since the NaI detectors were not available. Therefore, Phase 2 confirmation measurements were not necessary because the Phase 1 measurements were performed with the HPGe detectors. HPGe measurement results are included in Appendix B. As shown on the A9P2 North maps in Appendix B, a small part of the area was inaccessible for real-time scanning due to the steep terrain.

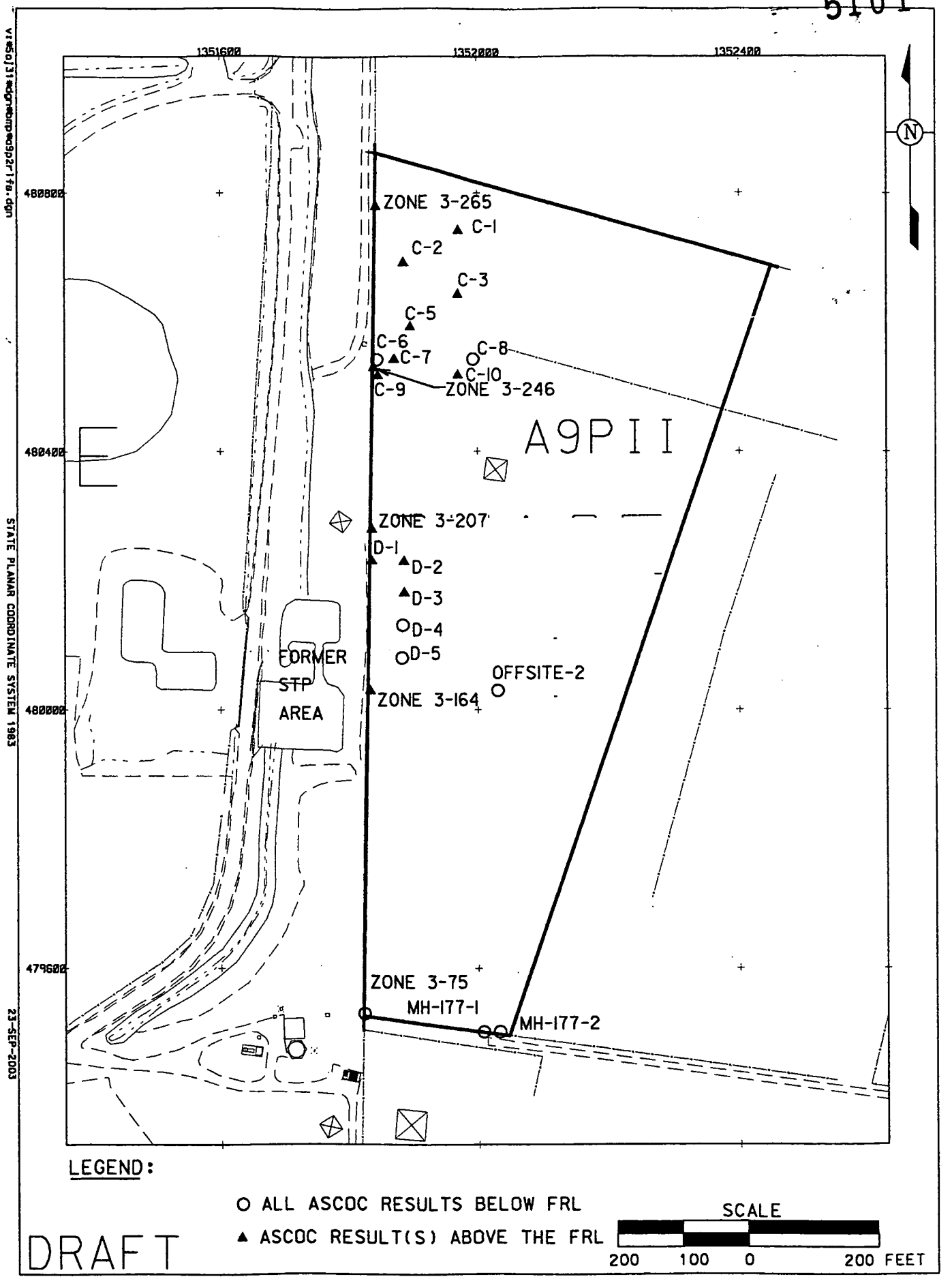
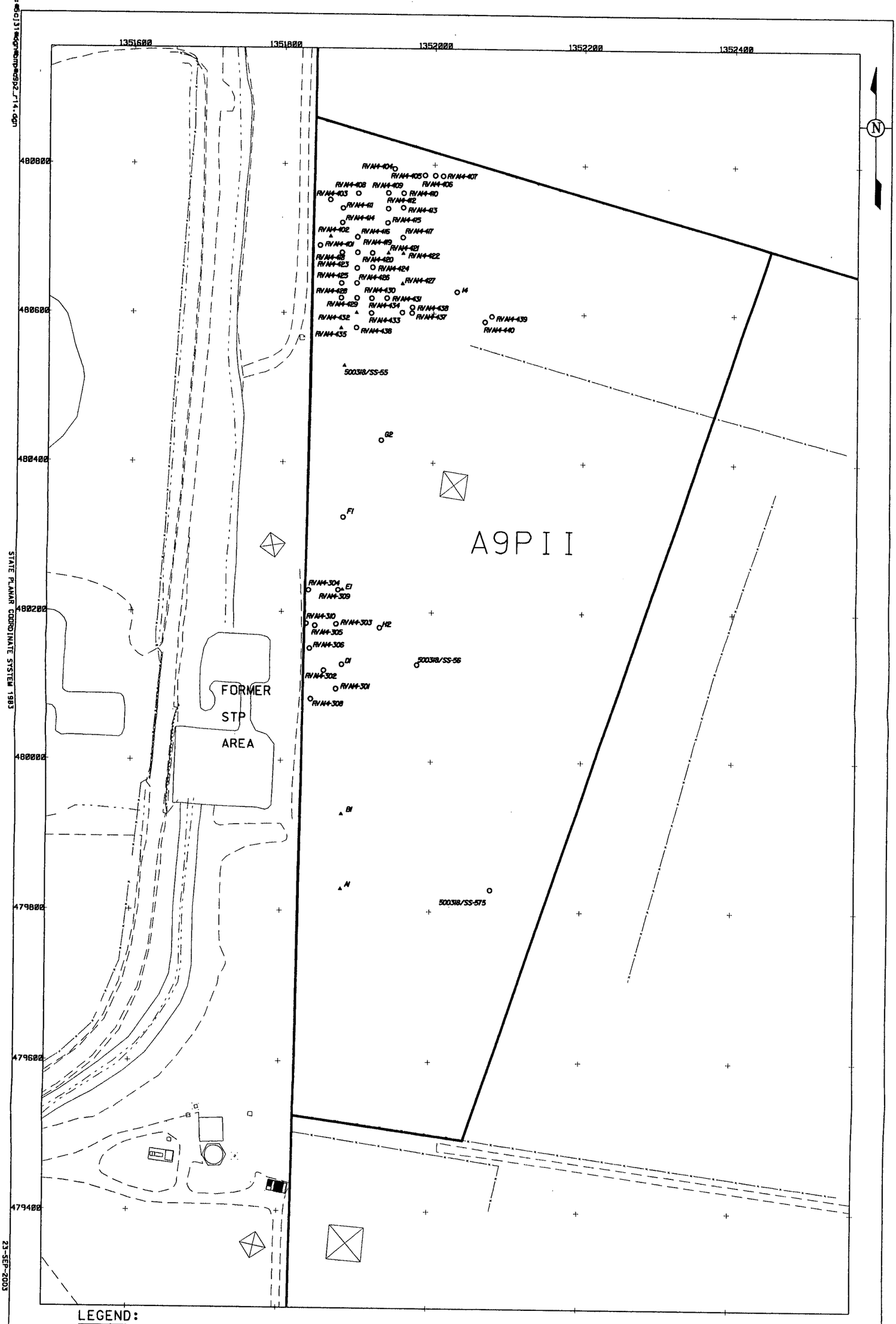


FIGURE 2-1. RIFS SAMPLES COLLECTED IN A9PII



LEGEND:

- ○ ALL ASCOC RESULTS BELOW FRL
- ▲ ASCOC RESULT(S) ABOVE THE FRL

SCALE

120 60 0 120 FEET

DRAFT

FIGURE 2-2. REMOVAL ACTION 14 SAMPLES COLLECTED IN A9PII

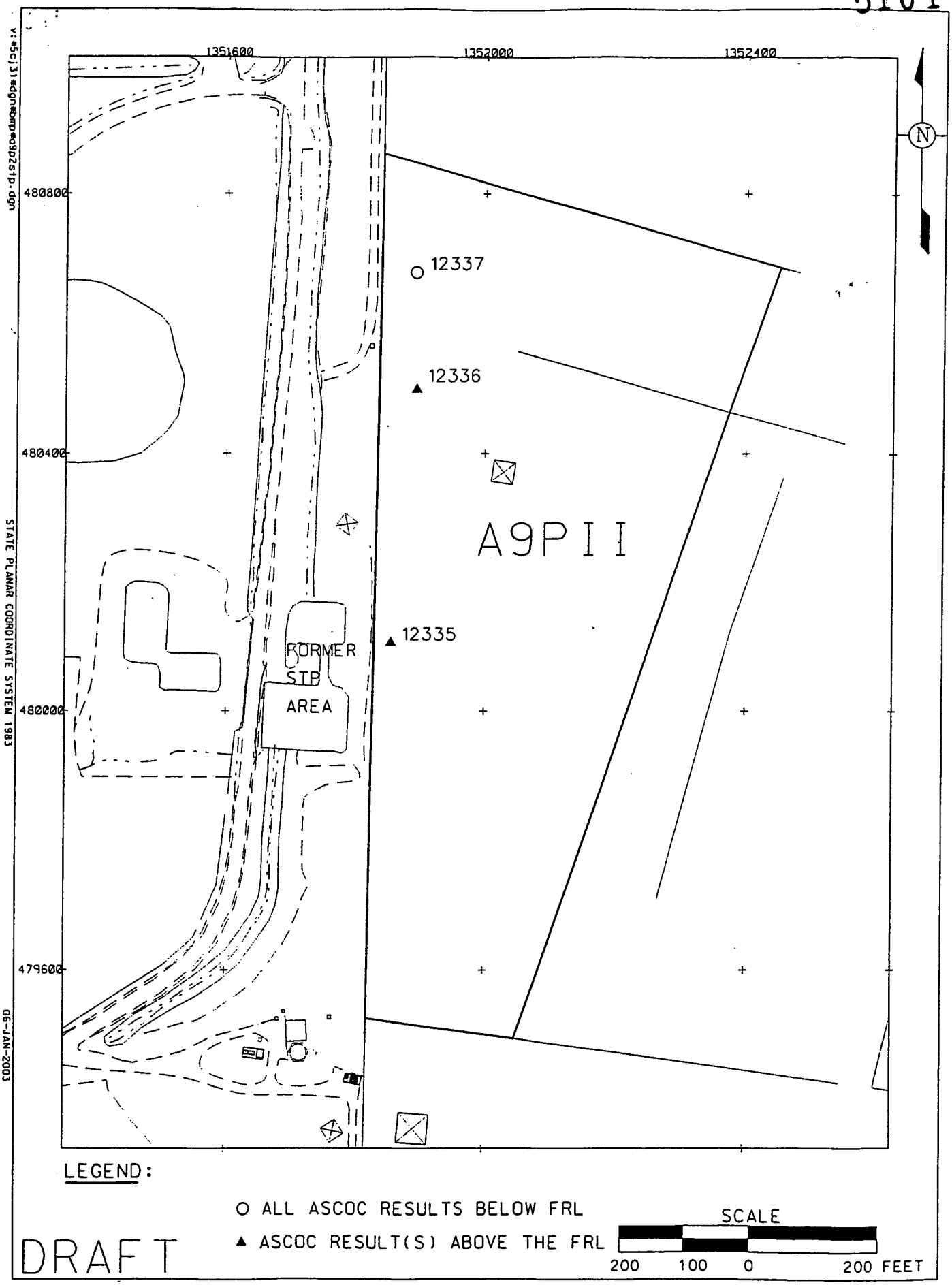


FIGURE 2-3. PREDESIGN INVESTIGATION SAMPLES AT FORMER STP COLLECTED IN A9PII

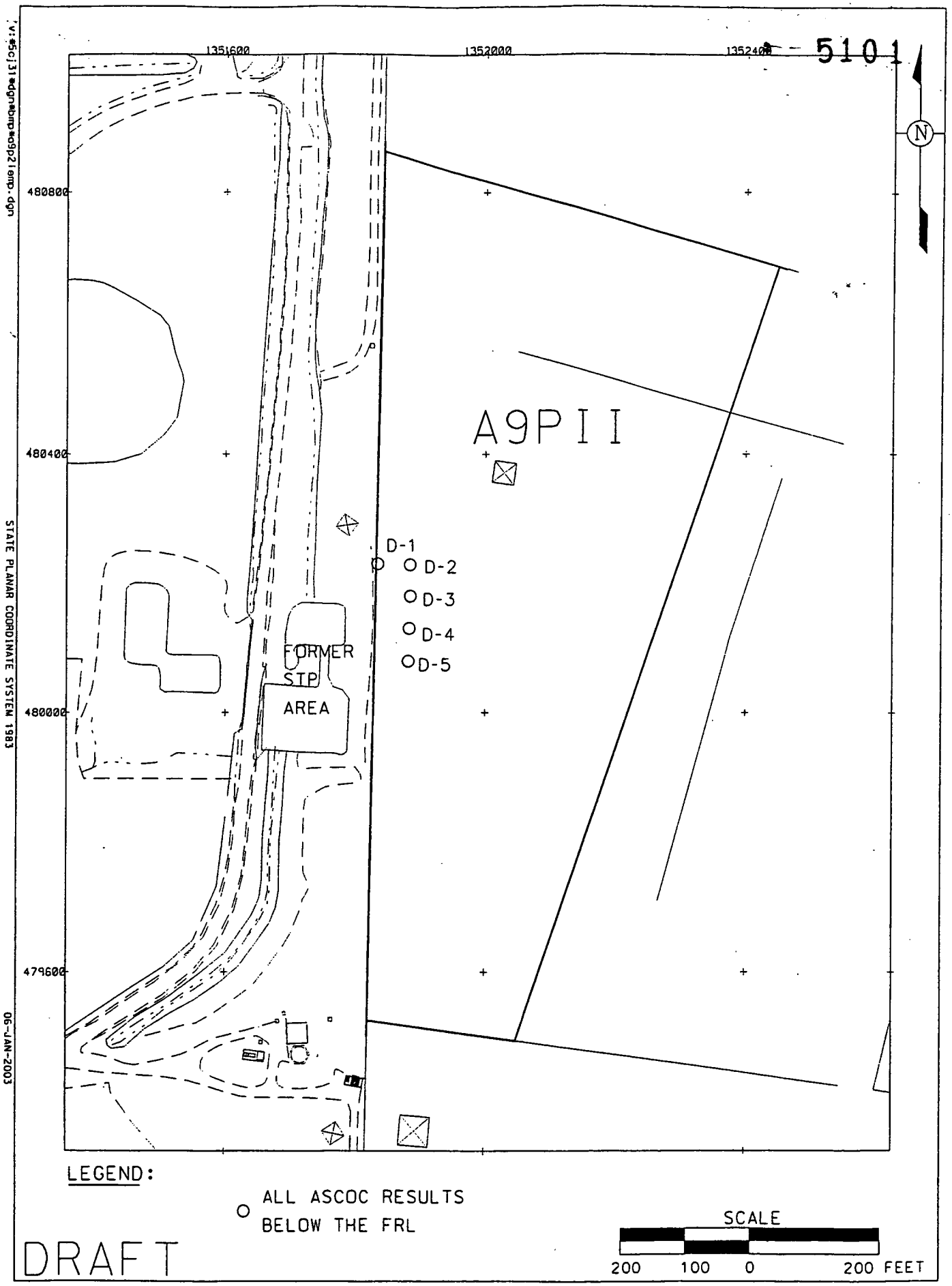


FIGURE 2-4. IEMP SAMPLES COLLECTED IN A9PII

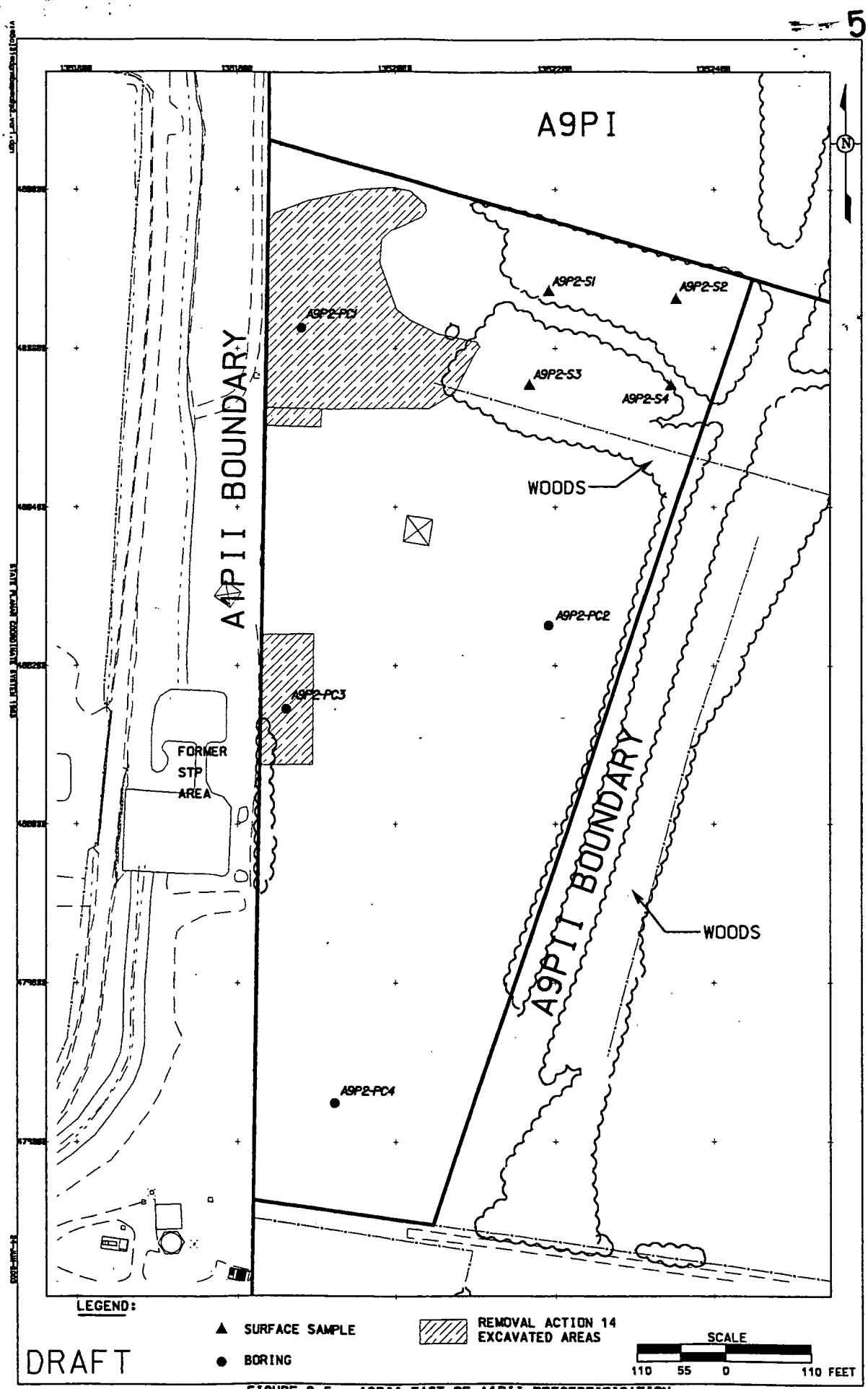


FIGURE 2-5. A9PII EAST OF A1PII PRECERTIFICATION PHYSICAL SAMPLE LOCATIONS

3.0 AREA-SPECIFIC CONSTITUENTS OF CONCERN

In the Operable Unit 5 (OU5) Record of Decision (ROD, DOE 1996), there are 80 soil COCs with established FRLs. These COCs were retained for further investigation based on a screening process that considered the presence of the constituent in site soil and the potential risk to a receptor exposed to soil containing this contaminant. In spite of the conservative nature of this COC retention process, many of the COCs with established FRLs have a limited distribution in site soil or the presence of the COC is based on high contract required detection limits (CRDLs). When FRLs were established for these COCs in the OU5 ROD, the FRLs were initially screened against site data presented on spatial maps to establish a picture of potential remediation areas.

By reviewing existing RI/FS data presented on spatial distribution maps, the sitewide list of soil COCs in the OU5 ROD was reduced from 80 to 30. This reduction was possible because the majority of the COCs with FRLs listed in the OU5 ROD have no detections above their corresponding FRL, thus eliminating them from further consideration. The 30 remaining sitewide COCs account for over 99 percent of the combined risk to a site receptor model, and they comprise the list from which all of the remediation ASCOCs are drawn. When planning certification for a remediation area, additional selection criteria are used to derive a subset of these 30 COCs. This subset of COCs is passed along to the certification process.

3.1 SELECTION CRITERIA

All of the sitewide primary COCs (total uranium, radium-226, radium-228, thorium-232, and thorium-228) will be retained as ASCOCs for certification in all areas of the site as well as off-property. The selection process for retaining secondary ASCOCs for a remediation area is driven by applying a set of decision criteria. For A1PI and A1PII, a soil contaminant was retained as an ASCOC if the following applied:

- It was retained as an ASCOC in adjacent FCP soil remediation areas;
- It is listed as a soil COC in the OU5 ROD, and it is listed as an ASCOC in Table 2-7 of the SEP for the Remediation Area of interest (Note: Table 2-7 does not include off-property Area 9);
- Analytical results show that a contaminant is present above its FRL, and the above-FRL concentrations are not attributable to false positives or elevated CRDLs;
- It can be traced to site use, either through process knowledge or known release of the constituent to the environment; and

- Physical characteristics of the contaminant, such as degradation rate and volatility, indicate it is likely to persist in the soil between time of release and remediation.

3.2 ASCOC SELECTION PROCESS FOR A9PII

3.2.1 ASCOC Selection Process for A9PII North of A1PI

The ASCOC selection process for Area 9 varies slightly. As discussed in Section 1.2, the portion of A9PII located along the north boundary of the FCP is being certified as a result of a response to a USEPA comment to the A1PI Certification Report that DOE would sample for total uranium and radium-228 during Area 9 certification. Two CUs (CU 1 and CU 11) will be located north of A1PI between the fence line and State Route 126, and will serve as a buffer between A1PI and off-property.

For CU 1, only total uranium will be retained as a COC. The single purpose of this CU is to determine if the uranium metal contamination found in A1PI migrated offsite, as all other A1PI ASCOCs passed certification requirements. It is expected that the uranium hot spot was an anomaly due to its metallic nature and is corroborated by the fact that it was identified through real-time scans. Although other COCs were analyzed under the precertification PSP and draft certification PSP, based on SEP guidance, these other ASCOCs are not warranted for evaluation.

For CU 11, only radium-228 will be retained as a COC. Sampling for radium-228 in the area north of A1PI CU O-20 is being performed in response to the USEPA comment mentioned in Section 1.2.

3.2.2 ASCOC Selection Process for A9PII East of the FCP

Total uranium, radium-226, radium-228, thorium-228 and thorium-232 are sitewide primary COCs, and will be retained as ASCOCs for the remaining A9PII CUs located east of the FCP (CUs 2-10). The remaining suite of ASCOCs to be analyzed during certification of the A9PII CUs located east of the FCP is based on the suite of ASCOCs from the adjacent FCP soil remediation area. Therefore, the ASCOCs for each of the A9PII CUs located east of the FCP include the suite of ASCOCs for the adjacent A1PII remediation area. The ASCOCs will be certified to the more stringent off-property soil FRLs identified in the OU5 ROD. The selected A9PII ASCOCs for the CUs east of A1PII are listed on Tables 3-1, along with their applicable FRLs.

As discussed in the precertification section 2.3, the full list of dioxins and furans were evaluated for their applicability to A9PII. Based on the data obtained during the precertification activities, it was concluded that the concentrations at which very limited dioxins and furans are present in A9PII are well within the

acceptable risk level per EPA guidelines. Moreover, dioxins and furans are not ASCOCs as prescribed by the Sitewide Excavation Plan. Therefore, dioxins and furans will not be included as ASCOCs.

TABLE 3-1
ASCOC LIST FOR A9PII CERTIFICATION UNITS EAST OF A1PII

ASCOC	Off-Property FRL (BTV)	Reason Retained
Total Uranium	50 mg/kg	Retained as a primary ASCOC sitewide
Radium-226	1.5 pCi/g	Retained as a primary ASCOC sitewide
Radium-228	1.4 pCi/g	Retained as a primary ASCOC sitewide
Thorium-228	1.5 pCi/g	Retained as a primary ASCOC sitewide
Thorium-232	1.4 pCi/g	Retained as a primary ASCOC sitewide
Technetium-99	1.0 pCi/g	ASCOC for A1PII
Antimony	0.61 mg/kg	ASCOC for A1PII*
Arsenic	9.6 mg/kg	ASCOC for A1PII
Beryllium	0.62 mg/kg	ASCOC for A1PII
Lead	400 mg/kg (200 mg/kg)	ASCOC for A1PII*
Molybdenum	13 mg/kg (10 mg/kg)	ASCOC for A1PII*
Aroclor-1254	0.04 mg/kg	ASCOC for A1PII
Aroclor-1260	0.04 mg/kg	ASCOC for A1PII
Tetrachloroethene	1.0 mg/kg	ASCOC for A1PII

* Ecological COC
BTV - benchmark toxicity value

4.0 CERTIFICATION APPROACH

4.1 CERTIFICATION DESIGN

The certification design for A9PII, which has already been approved by EPA and OEPA, follows the general approach outlined in Section 3.4 of the SEP. Approach E from the SEP will be used as a basis for certification design, as described in Section 4.5 of the SEP. However, the certification strategy will vary slightly from Approach E, as specified in the SEP, because much of the soil in this area has been plowed, thus eliminating the original surface layer of soil. There is also a need to evaluate subsurface soils to ensure that soil cultivation has had no impact below the plowed zone. In the unplowed areas, the top 6 inches of soil will be certified. In the cultivated areas, soil certification will be to a depth of 36 inches, as described in Section 3.4.8 of the SEP Addendum.

Historical land uses, soil COC data, precertification data and topography are used to establish CU boundaries. Because there were no FCP production-related land uses in A9PII, Removal Action 14, precertification data, the hot spot excavation, agricultural land use, and the topography of A9PII were the main drivers for CU delineation. The on-property remediation of A1PI and A1PII was also a key factor in CU determination. As a result, eleven CUs were established for A9PII –ten Group 1 CUs and one Group 2 CU. This will allow for more concentrated sampling and to ensure the excavation activities had no effect on the soil in A9PII. The CUs are shown on Figures 4-1 and 4-2, and have been established in A9PII as follows:

- **CU A9PII-1 and CU A9PII-11** — Group 1 CUs on-property just north of the FCP fence line in the unplowed portion of A9PII that requires certification sampling from 0 to 6 inches. These are buffer CUs between the remediated portion of A1P1 and off-property.
- **CU A9PII-2** — Group 2 CU east of the FCP property line in the unplowed and wooded northeast corner of A9PII that requires certification sampling from 0 to 6 inches.
- **CU A9PII-3 – CU A9PII-10** — Group 1 CUs along the east FCP property fence line in the cultivated portion of A9PII that requires certification sampling from 0 to 36 inches.

The selection of certification sampling locations was conducted according to Section 3.4.2 of the SEP. Each CU was first divided into 16 approximately equal sub-CUs. Sample locations were then generated by randomly selecting an easting and northing coordinate within the boundaries of each sub-CU, then testing those locations against the minimum distance criteria for the CU. If the minimum distance criteria were not

met, an alternative random location was selected for that sub-CU, and all the locations were re-tested. This process continued, until all 16 random locations met the minimum distance criteria. All sub-CUs and planned A9PII certification sampling locations are shown on Figures 4-3 and 4-4. Four of the 16 sample locations in each CU are designated with a "V," indicating archive sample locations. One sample location in each CU is designated with a "D," indicating a field duplicate sample collection location. One sample location in each CU is designated with a "*," indicating a sample location where one additional baseline confirmation sample is to be collected.

Prior to commencement of certification sampling field activities, all certification sample locations will be surveyed and field verified to make sure no surface obstacles will prevent collection at the planned location. Locations may be moved if a subsurface obstacle such as a rock or tree root prevent collection. Requirements for moving a certification sample location will be discussed in the PSP for A9PII Certification Sampling.

4.1.1 Surface Certification Units

CU 1 and CU 11

Samples will be collected from 0 to 6 inches at all 16 locations in each CU. Twelve samples per CU will be collected for analysis. The four samples designated as "archive" will be collected and stored in the event they are needed for additional analysis.

CU2

Samples will be collected from 0 to 6 inches at all 16 locations in CU 2. Twelve samples per CU will be collected for analysis. Two of the twelve locations sampled will include analysis for dioxins and furans. The four samples designated as "archive" will be collected and stored in the event they are needed for additional analysis.

CU 3 and CU 4

CU 3 and CU 4 are located in cultivated portions of A9PII and are centered on the Removal Action 14 area. This area was not backfilled after approximately one to one and a half feet of soil was excavated in 1993. There is clearly a depression with a very distinct soil color in this general area. The crops are growing very sporadically throughout the extent of CUs 3 and 4 unlike the surrounding area, which indicates soil conditions are different from the surrounding area. Therefore, the 'surface' of these CUs is truly representative of the subsurface conditions. Results from previously collected samples show that certain metal concentrations are elevated in the newly defined 'surface' for these CUs, which is indicative of subsurface conditions as

demonstrated in the Addendum to the CERCLA/RCRA Background Soil Study. If the concentrations of metals are indeed greater than or cannot be differentiated from the FRL, the 'surface' samples will be compared to subsurface background conditions for baseline confirmation. In these cases, there will not be a surface CU for the respective metal constituent since it is believed that the source of elevated condition is from the natural subsurface conditions and is not attributed to aerial deposition.

Because CU 3 and CU 4 are located in cultivated portions of A9PII, composite samples will be collected from 0 to 12 inches at all 16 locations in each CU. Twelve samples per CU will be collected for analysis. The four samples designated as "archive" will be collected and stored in the event they are needed for additional analysis.

CU 5 through CU 10

CU 5 through CU 10 are located in cultivated portions of A9PII. Composite samples will be collected from 0 to 12 inches at all 16 locations in each CU. Twelve samples per CU will be collected for analysis. The four samples designated as "archive" will be collected and stored in the event they are needed for additional analysis.

4.1.2 Subsurface Baseline Confirmation

CU 3 through CU 10

CU 3 through CU 10 encompass the entire cultivated section of A9PII. Per Section 3.4.8 of the SEP Addendum, at least 40 samples will be collected in a property to conduct baseline confirmation in areas that are currently or have been cultivated. At each of the four "archive" locations, plus one of the remaining 12 locations, a composite sample will also be collected from 12 to 36 inches. All five 12 to 36 inch interval samples collected within each CU will be analyzed for baseline confirmation purposes.

4.2 ANALYTICAL METHODOLOGY

Laboratory analysis of certification samples will be conducted using an approved analytical method, as discussed in Appendix H of the SEP. The minimum detection level (MDL) will be set at 10 percent of the FRL but the low off-property FRLs may result in difficulties for laboratories to meet 10 percent of the FRL for some analytes. In those instances, the MDL will be set as low as reasonable below the FRL. Analyses will be conducted to Analytical Support Level (ASL) D or E, where the MDL of the FRL is above the SCQ ASL detection level, but the analyses meet all other SCQ ASL D criteria. An ASL D data package will be provided for all of the analytical data. Because results are batched or grouped by CU, all results from a

minimum of four of the eleven CUs will be validated to validation support level (VSL) D. Samples rejected during the validation process will be re-analyzed, or an archive sample may be substituted if there is insufficient material available from the initial sample. Once data are validated as required, results will be entered into the SED.

4.3 STATISTICAL ANALYSIS

Once data are entered into the SED, a statistical analysis will be performed to evaluate the pass/fail criteria for each CU. The statistical approach is discussed in Section 3.4.3, Appendix G of the SEP, and Section 3.4.8 of the SEP Addendum.

When all CUs within the scope of this CDL have passed certification, a Certification Report will be issued. The Certification Report will be submitted to the regulatory agencies to receive acknowledgment that the pertinent operable unit remedial actions were completed, and the individual CUs are certified and may be released for interim or final land use. Section 7.4 of the SEP provides additional details and describes the required content of the Certification Report.

4.3.1 Surface Samples (0 to 6-inch and 0 to 12-inch)

Two criteria must be met for the CU to pass certification. If the data distribution is normal or lognormal, the first criterion compares the 95 percent Upper Confidence Limit (UCL) on the mean of each primary COC to its FRL, or the 90 percent UCL on the mean of each secondary ASCOC. On an individual CU basis, any ASCOC with the 95 percent UCL for primary ASCOCs (or 90 percent UCL above the FRL for secondary COCs) results in that CU failing certification. If the data distribution is not normal or lognormal, the appropriate nonparametric approach discussed in Appendix G of the SEP will be used to evaluate the second criterion. The second criterion is the hot spot criterion, which states that primary or secondary ASCOC results must not exceed two times the FRL. When the given UCL on the mean for each COC is less than its FRL and the hot spot criterion is met, the CU will be considered certified.

In the event that a CU fails certification, the following scenarios will be evaluated: 1) a high variability in the data set, 2) localized contamination, and 3) widespread contamination. Details on the evaluation and responses to these possible outcomes are provided in Section 3.4.5 of the SEP.

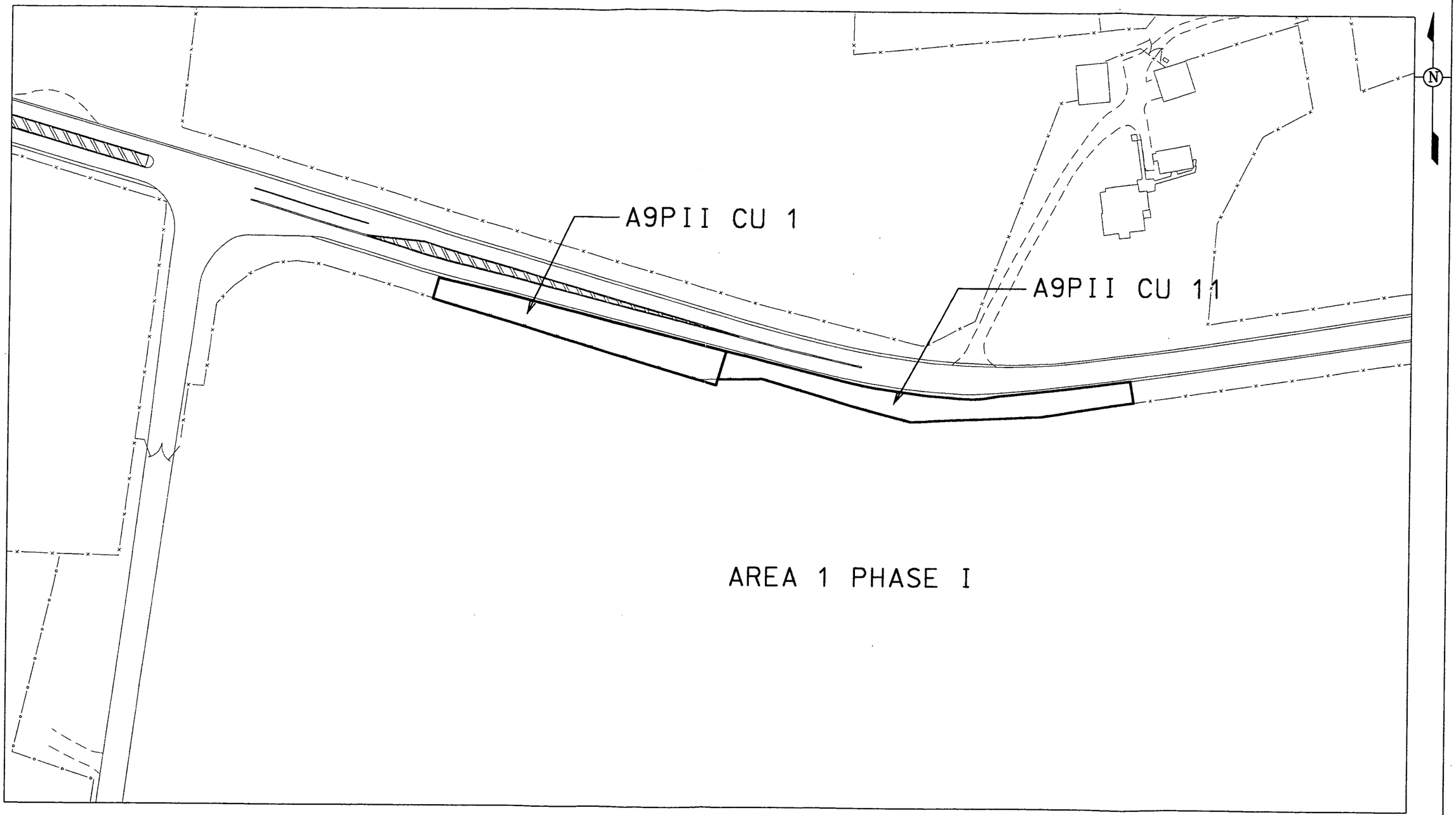
4.3.2 Subsurface Baseline Confirmation Samples (12 to 36-inch)

As described in Section 3.4.8 of the SEP Addendum, statistical analyses for the baseline confirmation

(subsurface) samples compare the subsurface soil data to background concentrations. If all of the baseline confirmation data in the entire area (i.e., all 40 or more samples) to be certified are less than the 95th percentile background concentration for each COC, then the impacted area is not extended. Therefore, the area below/outside the impacted zone is confirmed to be within background conditions. For each COC that has a baseline confirmation result equal to or exceeding the 95th percentile background concentration, statistics of the baseline confirmation data set are evaluated. If those COC-specific baseline confirmation results are less than the corresponding background population, based on a population-to-population comparison (i.e., t-test or Wilcoxon tests), or cannot be differentiated at 99 percent UCL, then the original impacted zone is not extended. Therefore, the area below/outside the impacted zone is confirmed to be statistically within background conditions.

If any COC-specific data population is higher than the background population, more statistical evaluations of the data will be required. For example, all baseline confirmation data from any CU with concentration(s) higher than the 95th percentile background concentration will be grouped into a subset for evaluation. If the UCL of the mean of this subset of data for each COC is less than the 95th percentile background concentration, then the original impacted area is not extended, and the baseline area below/outside the impacted surface CU is confirmed to be statistically within background conditions.

If the UCL of the mean of this subset of data for any COC is greater than the 95th percentile background concentration, then a portion of the originally designated baseline zone will be designated as impacted. This newly designated impacted zone will require FRL certification. The reduced baseline confirmation area will require statistical re-analyses per Figure 3-17 of the SEP using the remaining baseline confirmation data to confirm that background conditions exist.



LEGEND:

A9PII NORTH CU BOUNDARIES

SCALE

80 40 0 80 FEET

DRAFT

v:\5oj31\dgn\bmp\a9p2n_005.dgn STATE PLANAR COORDINATE SYSTEM 1983 01-OCT-2003

FIGURE 4-1. A9PII NORTH OF A1PI BOUNDARIES

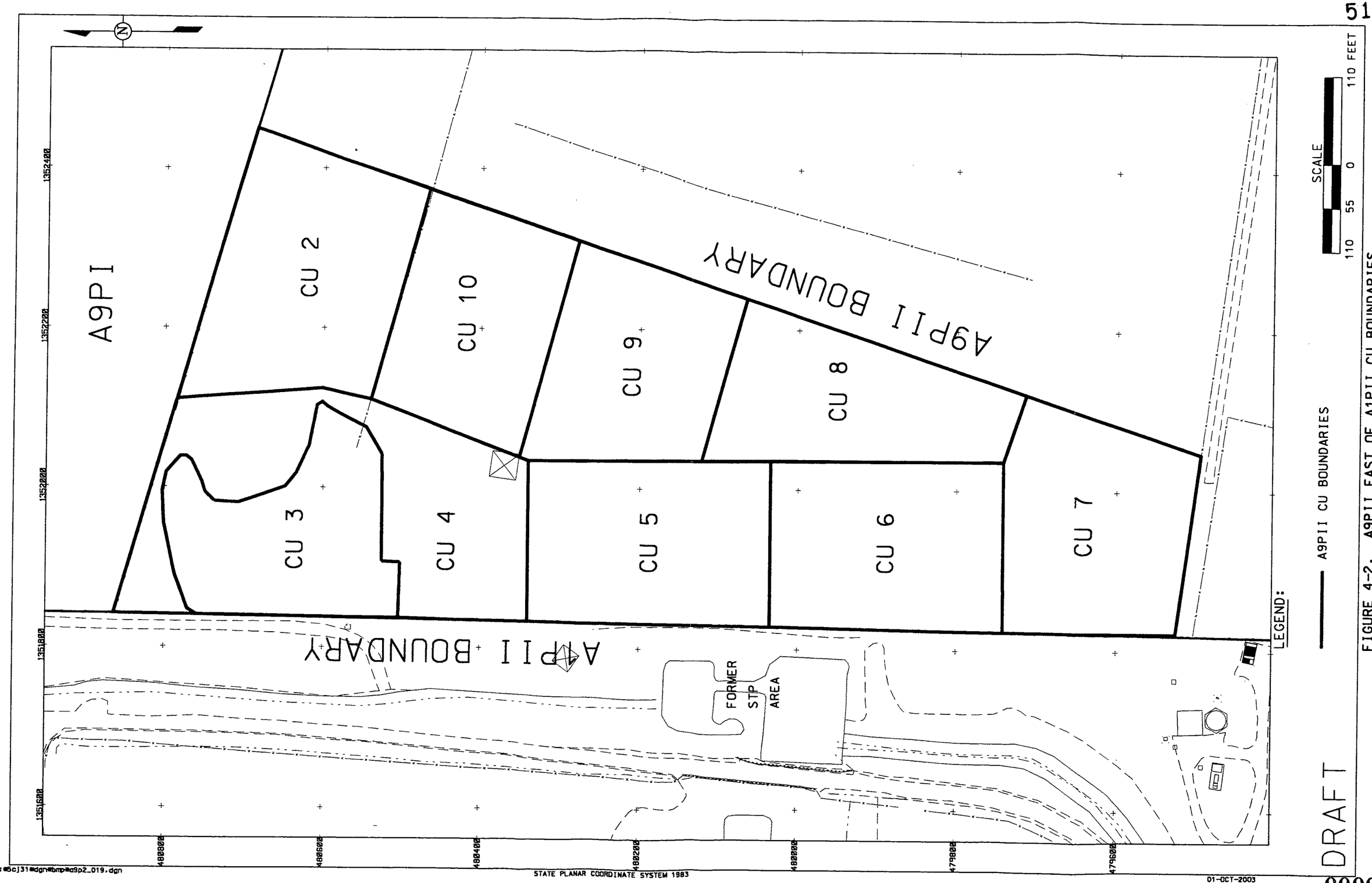
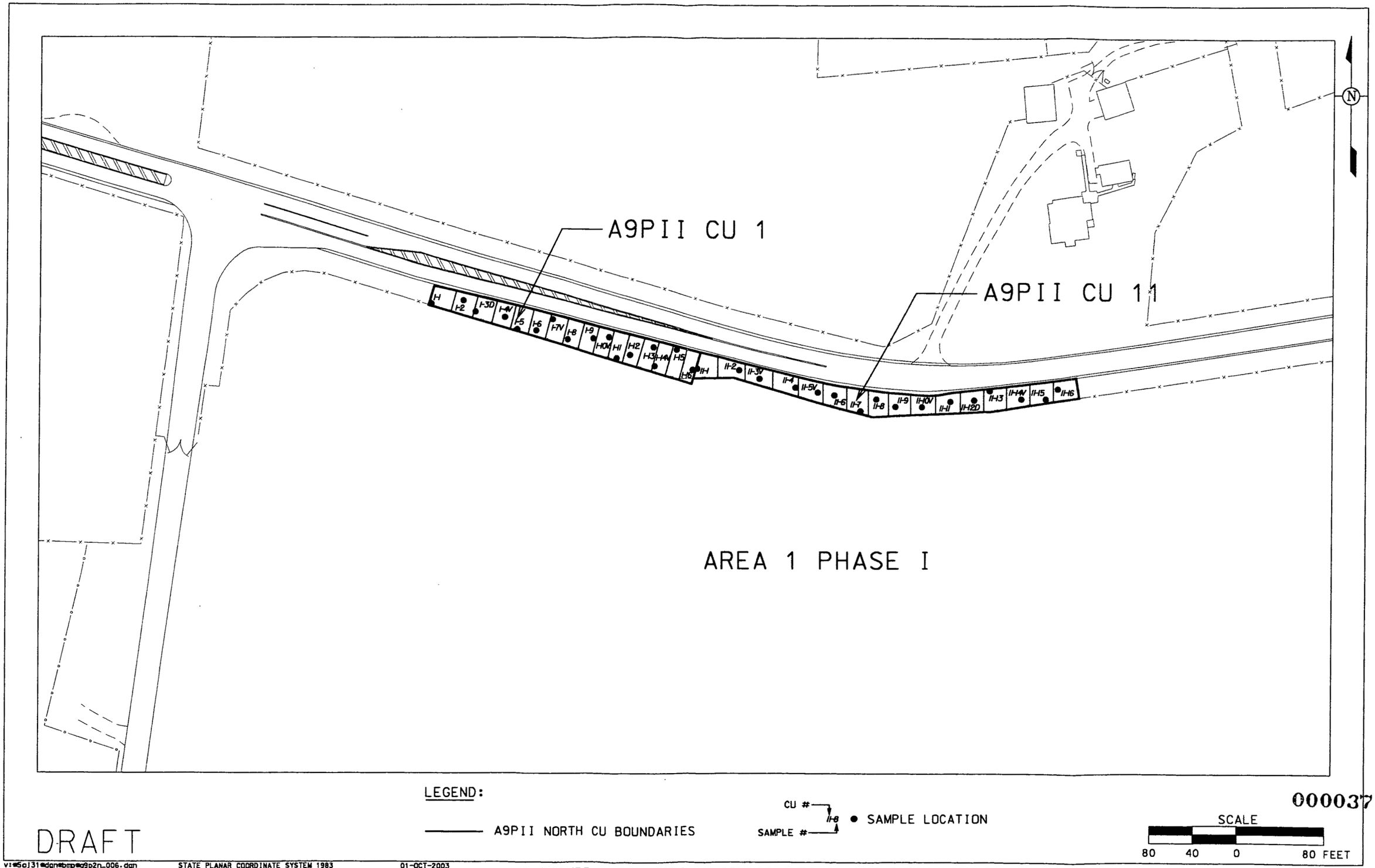


FIGURE 4-2. A9PII EAST OF A1PII CU BOUNDARIES



000037

FIGURE 4-3. A9PII NORTH OF A1PI CU AND SUB-CU BOUNDARIES AND CERTIFICATION SAMPLING LOCATIONS

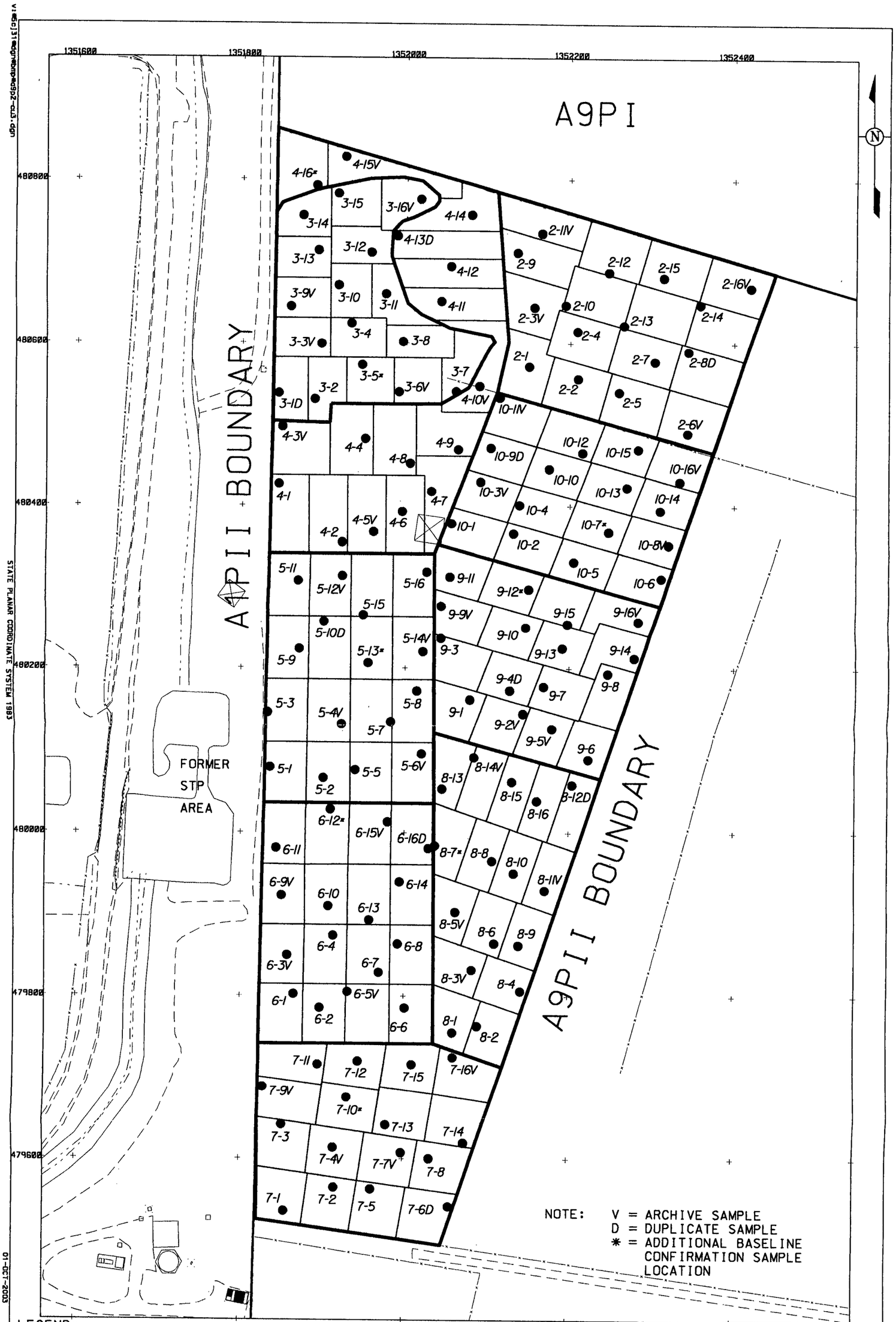


FIGURE 4-4. A9PII EAST OF A1PII CU AND SUB CU BOUNDARIES AND CERTIFICATION SAMPLING LOCATIONS

5.0 SCHEDULE

The following draft schedule shows key activities for the completion of the work within the scope of this CDL. Implementation of this schedule is pending funding availability and property access. If necessary, an extension will be requested.

Activity	Target Date
Submittal of Certification Design Letter	October 7, 2003
Start of Certification Sampling	November 24, 2003
Complete Field Work	December 10, 2003
Complete Analytical Work	January 13, 2003
Complete Data Validation and Statistical Analysis	January 23, 2004
Submit Certification Report	January 30, 2004[a]

[a] Only the date for submittal of the Certification Report is a commitment to the U.S. Environmental Protection Agency and Ohio Environmental Protection Agency. Other dates are internal target completion dates.

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APPENDIX A

REMAINING HISTORICAL SAMPLE DATA WITHIN A9PII

APPENDIX A
ABBREVIATIONS AND SYMBOLS

Column Heading Where Abbreviation or Symbol Used	Abbreviation or Symbol Used	Corresponding Definition
Sampling Event		
	RI/FS	Remedial Investigation/Feasability Study
	STP	Sewage Treatment Plant
	IEMP	Integrated Environmental Monitoring Program
Result		
	-99	Signifies a non-detect value since a minimum detection level was not provided and numeric value was required to be entered into the database.
Qualifier		
	-	Positive result
	J	Estimated result
	NV	Not validated
	U	Non detect
	UJ	Estimated, non detect
	UNV	Non detect, not validated
Units		
	pCi/g	picoCuries per gram
	mg/kg	milligrams per kilogram
	ug/kg	micrograms per kilogram

TABLE A-1. REMAING HISTORICAL DATA WITHIN AREA 9, PHASE II NORTH OF AREA 1, PHASE I

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Cesium-137	0.6	J	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Neptunium-237	0.6	UJ	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Plutonium-238	0.6	UJ	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Plutonium-239/240	0.6	UJ	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Radium-226	0.6	J	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Radium-228	1	J	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Ruthenium-106	1	UJ	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Strontium-90	0.5	UJ	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Technetium-99	1	UJ	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Thorium-228	1.1	J	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Thorium-230	1.7	J	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Thorium-232	0.9	J	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Uranium, Total	9.59534207	J	mg/kg
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Uranium-234	3.2	J	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Uranium-235/236	0.6	UJ	pCi/g
ZONE 3-542	4/12/1988	RI/FS	484024.438	1350280.943	005264	Uranium-238	3.2	J	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Cesium-137	1.1	J	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Neptunium-237	0.6	UJ	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Plutonium-238	0.6	UJ	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Plutonium-239/240	0.6	UJ	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Radium-226	1	J	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Radium-228	1.1	J	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Ruthenium-106	1	UJ	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Strontium-90	0.9	J	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Technetium-99	1	UJ	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Thorium-228	1.3	J	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Thorium-230	1.9	J	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Thorium-232	1.1	J	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Uranium, Total	17.6914119	J	mg/kg
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Uranium-234	5.4	J	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Uranium-235/236	0.6	UJ	pCi/g
ZONE 3-549	4/19/1988	RI/FS	484119.432	1349796.943	005279	Uranium-238	5.9	J	pCi/g

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-M	Antimony	44.2	UNV	mg/kg
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-M	Arsenic	5.8	NV	mg/kg
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-M	Beryllium	0.91	NV	mg/kg
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-M	Cadmium	1.1	NV	mg/kg
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-M	Chromium	19.27	NV	mg/kg
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-M	Copper	21.65	NV	mg/kg
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-M	Lead	24.4	NV	mg/kg
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-M	Manganese	580	NV	mg/kg
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-M	Mercury	0.022	NV	mg/kg
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-M	Nickel	24.4	NV	mg/kg
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-R	Uranium, Total	3.95	NV	mg/kg
12335	10/30/1997	Predesign Investigation at STP	480106.5	1351855.0	A1P2MIS-12335-6-M	Zinc	65.71	NV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-M	Antimony	44.2	UNV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-M	Arsenic	4.4	NV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-M	Beryllium	0.69	NV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-M	Cadmium	0.74	NV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-M	Chromium	8.71	NV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-M	Copper	8.55	NV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-M	Lead	20.12	NV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-M	Manganese	459.75	NV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-M	Mercury	0.014	NV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-M	Nickel	7.97	NV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-R	Uranium, Total	17.8	NV	mg/kg
12336	10/30/1997	Predesign Investigation at STP	480499.1	1351893.0	A1P2MIS-12336-1-M	Zinc	33.5	NV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-M	Antimony	39.8	UNV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-M	Arsenic	4.4	NV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-M	Beryllium	0.23	NV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-M	Cadmium	0.31	NV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-M	Chromium	7.53	NV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-M	Copper	11.7	NV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-M	Lead	15.16	NV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-M	Manganese	317.94	NV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-M	Mercury	0.02	NV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-M	Nickel	8.83	NV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-R	Uranium, Total	1.39	NV	mg/kg
12337	10/30/1997	Predesign Investigation at STP	480678.9	1351892.0	A1P2MIS-12337-1-M	Zinc	26.27	NV	mg/kg

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	1,1,2-Trichloroethane	12	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	1,1-Dichloroethene	12	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	1,2-Dichloroethane	12	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	3,3'-Dichlorobenzidine	410	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	4-Methyl-2-pentanone	12	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	4-Nitroaniline	1000	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Acetone	8	J	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Antimony	3.4	UJ	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Arsenic	3.9	-	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Barium	237	-	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Benzene	12	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Benzo(a)anthracene	410	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Benzo(a)pyrene	410	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Benzo(b)fluoranthene	410	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Benzo(k)fluoranthene	410	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Beryllium	1.2	U	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	bis(2-Chloroisopropyl) ether	410	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	bis(2-Ethylhexyl)phthalate	46	J	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Bromodichloromethane	12	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Bromoform	12	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Bromomethane	12	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Cadmium	1.2	U	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Carbon disulfide	12	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Carbon Tetrachloride	12	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Cesium-137	0.2	UJ	pCi/g
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Chlorobenzene	12	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Chloroform	12	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Chromium	12.1	-	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Chrysene	410	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Cobalt	31.6	-	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Copper	10	-	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Cyanide	0.38	-	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Dibenzo(a,h)anthracene	410	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Di-n-octyl phthalate	410	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Ethylbenzene	12	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Indeno(1,2,3-cd)pyrene	410	U	ug/kg

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Lead	18.9	J	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Manganese	3420	-	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Mercury	0.06	U	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Methylene chloride	12	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Molybdenum	4.1	U	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Nickel	10	-	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	N-Nitroso-di-n-propylamine	410	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	N-Nitrosodiphenylamine	410	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Pentachlorophenol	1000	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Plutonium-238	0.2	UJ	pCi/g
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Plutonium-239/240	0.6	J	pCi/g
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	p-Methylphenol	410	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Radium-226	0.8	J	pCi/g
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Radium-228	0.5	U	pCi/g
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Selenium	0.24	UJ	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Silver	0.49	UJ	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Strontium-90	0.5	UJ	pCi/g
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Technetium-99	1	U	pCi/g
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Tetrachloroethene	12	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Thallium	0.24	U	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Thorium-228	0.8	-	pCi/g
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Thorium-230	1.1	-	pCi/g
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Thorium-232	0.8	J	pCi/g
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Toluene	12	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Trichloroethene	12	UJ	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Uranium, Total	1.19941776	J	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121078	Uranium-238	0.4	J	pCi/g
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Vanadium	33.4	-	mg/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Vinyl chloride	12	U	ug/kg
500318/SS-56	7/1/1993	Removal Action 14	480129.4	1351981.0	121076	Xylenes, Total	12	UJ	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121076	Zinc	47	-	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	1,1,2-Trichloroethane	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	1,1-Dichloroethene	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	1,2-Dichloroethane	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	3,3'-Dichlorobenzidine	400	UJ	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	4-Methyl-2-pentanone	12	U	ug/kg

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	4-Nitroaniline	990	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Acetone	7	J	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	alpha-Chlordane	2	UJ	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Antimony	3.3	UJ	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Aroclor-1254	39	UJ	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Aroclor-1260	39	UJ	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Arsenic	1.9	-	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Barium	54.6	-	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Benzene	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Benzo(a)anthracene	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Benzo(a)pyrene	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Benzo(b)fluoranthene	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Benzo(k)fluoranthene	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Beryllium	1.2	U	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	bis(2-Chloroisopropyl) ether	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	bis(2-Ethylhexyl)phthalate	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Bromodichloromethane	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Bromoform	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Bromomethane	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Cadmium	1.2	U	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Carbon disulfide	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Carbon Tetrachloride	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121028	Cesium-137	0.5	J	pCi/g
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Chlorobenzene	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Chloroform	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Chromium	8.9	-	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Chrysene	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Cobalt	10.6	-	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Copper	8.9	-	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Cyanide	0.49	-	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Dibenzo(a,h)anthracene	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Dieldrin	3.9	UJ	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Di-n-octyl phthalate	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Ethylbenzene	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	gamma-Chlordane	2	UJ	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Indeno(1,2,3-cd)pyrene	400	U	ug/kg

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Lead	16.9	J	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Manganese	504	-	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Mercury	0.06	U	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Methylene chloride	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Molybdenum	4	U	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Nickel	7	-	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	N-Nitroso-di-n-propylamine	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	N-Nitrosodiphenylamine	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Pentachlorophenol	990	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121028	Plutonium-238	0.2	UJ	pCi/g
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121028	Plutonium-239/240	0.2	UJ	pCi/g
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	p-Methylphenol	400	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121028	Radium-226	0.25	UJ	pCi/g
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121028	Radium-228	0.5	U	pCi/g
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Selenium	1.2	UJ	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Silver	0.47	U	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121028	Strontium-90	0.8	UJ	pCi/g
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121028	Technetium-99	1	UJ	pCi/g
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Tetrachloroethene	1	J	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Thallium	0.24	U	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Toluene	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Trichloroethene	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121028	Uranium, Total	17.5	J	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Vanadium	15.6	-	mg/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Vinyl chloride	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Xylenes, Total	12	U	ug/kg
500318/SS-57	7/1/1993	Removal Action 14	479829.4	1352081.0	121025	Zinc	39.1	-	mg/kg
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-117	Radium-226	1	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-116	Radium-226	0.9	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-115	Radium-226	0.76	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-114	Radium-226	0.56	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-116	Radium-228	1.8	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-114	Radium-228	1	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-117	Radium-228	0.66	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-115	Radium-228	0.62	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-115	Thorium-228	1.2	NV	PCI/G

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-116	Thorium-228	1.2	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-117	Thorium-228	1.2	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-114	Thorium-228	0.89	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-115	Thorium-230	1.6	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-116	Thorium-230	1.4	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-117	Thorium-230	1.2	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-114	Thorium-230	0.9	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-115	Thorium-232	1.1	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-116	Thorium-232	1.1	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-117	Thorium-232	1	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-114	Thorium-232	0.85	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-114	Uranium-238	3.7	UNV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-115	Uranium-238	3.7	UNV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-116	Uranium-238	3.7	NV	PCI/G
A1	2/8/1994	Removal Action 14	479829.4	1351881.1	940208-117	Uranium-238	3.7	UNV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-119	Radium-226	1	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-120	Radium-226	1	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-121	Radium-226	0.94	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-118	Radium-226	0.73	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-120	Radium-228	2.6	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-118	Radium-228	0.6	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-121	Radium-228	0.57	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-119	Radium-228	0.09	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-119	Thorium-228	1.2	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-121	Thorium-228	1.2	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-118	Thorium-228	1.1	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-120	Thorium-228	1.1	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-120	Thorium-230	1.3	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-121	Thorium-230	1.3	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-118	Thorium-230	1.2	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-119	Thorium-230	1.2	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-119	Thorium-232	1.1	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-120	Thorium-232	1	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-121	Thorium-232	1	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-118	Thorium-232	0.96	NV	PCI/G
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-118	Uranium-238	3.7	UNV	PCI/G

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
B1	2/8/1994	Removal Action 14	479929.4	1351881.1	940208-121	Uranium-238	3.7	UNV	PCI/G
C-6	9/23/1992	Removal Action 14	480541.9	1351843.5	104034	Uranium, Total	24	NV	mg/kg
D1	2/8/1994	Removal Action 14	480129.4	1351881.1	940208-113	Radium-226	1.1	NV	PCI/G
D1	2/8/1994	Removal Action 14	480129.4	1351881.1	940208-113	Radium-228	0.23	NV	PCI/G
D1	2/8/1994	Removal Action 14	480129.4	1351881.1	940208-113	Thorium-228	1.2	NV	PCI/G
D1	2/8/1994	Removal Action 14	480129.4	1351881.1	940208-113	Thorium-230	1.3	NV	PCI/G
D1	2/8/1994	Removal Action 14	480129.4	1351881.1	940208-113	Thorium-232	1.1	NV	PCI/G
D-1	8/2/2001	IEMP	480230.7	1351833.9	200401840	Radium-226	0.553	-	pCi/g
D-1	8/2/2001	IEMP	480230.7	1351833.9	200401840	Radium-228	0.463	-	pCi/g
D-1	8/2/2001	IEMP	480230.7	1351833.9	200401840	Thorium-228	0.406	J	pCi/g
D-1	8/2/2001	IEMP	480230.7	1351833.9	200401840	Thorium-230	0.687	-	pCi/g
D-1	8/2/2001	IEMP	480230.7	1351833.9	200401840	Thorium-232	0.425	-	pCi/g
D-1	8/2/2001	IEMP	480230.7	1351833.9	200401840	Uranium, Total	2.807	J	mg/kg
D-2	8/2/2001	IEMP	480229.4	1351883.6	200401841	Radium-226	0.925	J	pCi/g
D-2	8/2/2001	IEMP	480229.4	1351883.6	200401841	Radium-228	0.816	J	pCi/g
D-2	8/2/2001	IEMP	480229.4	1351883.6	200401841	Thorium-228	0.647	J	pCi/g
D-2	8/2/2001	IEMP	480229.4	1351883.6	200401841	Thorium-230	1.41	J	pCi/g
D-2	8/2/2001	IEMP	480229.4	1351883.6	200401841	Thorium-232	0.577	-	pCi/g
D-2	8/2/2001	IEMP	480229.4	1351883.6	200401841	Uranium, Total	8.394	J	mg/kg
D-3	8/2/2001	IEMP	480180.8	1351884.0	200401842	Radium-226	0.751	J	pCi/g
D-3	8/2/2001	IEMP	480180.8	1351884.0	200401842	Radium-228	0.774	J	pCi/g
D-3	8/2/2001	IEMP	480180.8	1351884.0	200401842	Thorium-228	0.611	J	pCi/g
D-3	8/2/2001	IEMP	480180.8	1351884.0	200401842	Thorium-230	1.16	-	pCi/g
D-3	8/2/2001	IEMP	480180.8	1351884.0	200401842	Thorium-232	0.473	-	pCi/g
D-3	8/2/2001	IEMP	480180.8	1351884.0	200401842	Uranium, Total	3.929	J	mg/kg
D-4	8/2/2001	IEMP	480130.9	1351882.5	200401843	Radium-226	0.726	-	pCi/g
D-4	8/2/2001	IEMP	480130.9	1351882.5	200401843	Radium-228	0.69	-	pCi/g
D-4	8/2/2001	IEMP	480130.9	1351882.5	200401843	Thorium-228	0.742	J	pCi/g
D-4	8/2/2001	IEMP	480130.9	1351882.5	200401843	Thorium-230	1.04	-	pCi/g
D-4	8/2/2001	IEMP	480130.9	1351882.5	200401843	Thorium-232	0.569	-	pCi/g
D-4	8/2/2001	IEMP	480130.9	1351882.5	200401843	Uranium, Total	3.187	J	mg/kg
D-5	8/2/2001	IEMP	480080.1	1351881.1	200401844	Radium-226	0.703	J	pCi/g
D-5	8/2/2001	IEMP	480080.1	1351881.1	200401844	Radium-228	0.735	J	pCi/g
D-5	8/2/2001	IEMP	480080.1	1351881.1	200401844	Thorium-228	1.17	J	pCi/g
D-5	8/2/2001	IEMP	480080.1	1351881.1	200401844	Thorium-230	1.14	-	pCi/g
D-5	8/2/2001	IEMP	480080.1	1351881.1	200401844	Thorium-232	0.889	-	pCi/g

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
D-5	8/2/2001	IEMP	480080.1	1351881.1	200401844	Uranium, Total	9.617	J	mg/kg
E1	2/8/1994	Removal Action 14	480229.4	1351881.1	940208-109	Radium-226	1.1	NV	PCI/G
E1	2/8/1994	Removal Action 14	480229.4	1351881.1	940208-109	Radium-228	1.1	NV	PCI/G
E1	2/8/1994	Removal Action 14	480229.4	1351881.1	940208-109	Thorium-228	1.2	NV	PCI/G
E1	2/8/1994	Removal Action 14	480229.4	1351881.1	940208-109	Thorium-230	1.4	NV	PCI/G
E1	2/8/1994	Removal Action 14	480229.4	1351881.1	940208-109	Thorium-232	1	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-018	Radium-226	1	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-019	Radium-226	1	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-016	Radium-226	0.77	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-017	Radium-226	0.73	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-019	Radium-228	0.79	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-017	Radium-228	0.45	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-018	Radium-228	0.39	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-016	Radium-228	0.38	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-018	Thorium-228	1.2	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-017	Thorium-228	1.1	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-019	Thorium-228	1.1	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-016	Thorium-228	1	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-018	Thorium-230	1.4	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-019	Thorium-230	1.3	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-016	Thorium-230	1.2	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-017	Thorium-230	1.2	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-018	Thorium-232	1.1	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-019	Thorium-232	1	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-016	Thorium-232	0.96	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-017	Thorium-232	0.96	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-016	Uranium-238	3.7	NV	PCI/G
F1	2/11/1994	Removal Action 14	480329.4	1351881.1	940211-019	Uranium-238	3.7	UNV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-016	Radium-226	0.62	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-017	Radium-226	0.62	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-015	Radium-226	0.51	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-014	Radium-226	0.39	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-015	Radium-228	0.66	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-016	Radium-228	0.63	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-017	Radium-228	0.57	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-014	Radium-228	0.52	NV	PCI/G

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-016	Thorium-228	1.2	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-017	Thorium-228	1.2	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-015	Thorium-228	1.1	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-014	Thorium-228	1	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-017	Thorium-230	1.3	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-016	Thorium-230	1.2	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-014	Thorium-230	1.1	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-015	Thorium-230	1.1	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-016	Thorium-232	1.2	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-017	Thorium-232	1.1	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-015	Thorium-232	0.98	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-014	Thorium-232	0.96	NV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-014	Uranium-238	3.7	UNV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-015	Uranium-238	3.7	UNV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-016	Uranium-238	3.7	UNV	PCI/G
G2	1/13/1994	Removal Action 14	480429.4	1351931.1	940113-017	Uranium-238	-99	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-020	Radium-226	0.94	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-018	Radium-226	0.87	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-021	Radium-226	0.8	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-019	Radium-226	0.36	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-020	Radium-228	0.48	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-021	Radium-228	0.41	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-019	Radium-228	0.35	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-018	Radium-228	0.3	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-020	Thorium-228	1.2	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-021	Thorium-228	1.2	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-018	Thorium-228	1.1	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-019	Thorium-228	1.1	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-020	Thorium-230	1.3	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-021	Thorium-230	1.3	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-018	Thorium-230	1.2	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-019	Thorium-230	1.2	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-019	Thorium-232	1.1	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-020	Thorium-232	1.1	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-021	Thorium-232	1.1	NV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-018	Thorium-232	1	NV	PCI/G

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-018	Uranium-238	3.7	UNV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-019	Uranium-238	3.7	UNV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-020	Uranium-238	3.7	UNV	PCI/G
H2	1/13/1994	Removal Action 14	480179.4	1351931.1	940113-021	Uranium-238	3.7	UNV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-025	Radium-226	0.92	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-023	Radium-226	0.82	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-024	Radium-226	0.8	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-023	Radium-228	0.55	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-025	Radium-228	0.49	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-024	Radium-228	0.45	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-024	Thorium-228	1.2	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-023	Thorium-228	1.1	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-025	Thorium-228	1.1	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-024	Thorium-230	1.2	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-025	Thorium-230	1.1	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-023	Thorium-230	1	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-023	Thorium-232	1.1	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-024	Thorium-232	1.1	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-025	Thorium-232	1.1	NV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-023	Uranium-238	3.7	UNV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-025	Uranium-238	3.7	UNV	PCI/G
I4	1/13/1994	Removal Action 14	480629.4	1352031.1	940113-024	Uranium-238	-99	NV	PCI/G
MH-177-1	5/17/1989	RI/FS	479501.2	1352008.3	066409	Technetium-99	0.9	UNV	pCi/g
MH-177-1	5/17/1989	RI/FS	479501.2	1352008.3	066409	Thorium-228	1.1	NV	pCi/g
MH-177-1	5/17/1989	RI/FS	479501.2	1352008.3	066409	Thorium-230	2.3	NV	pCi/g
MH-177-1	5/17/1989	RI/FS	479501.2	1352008.3	066409	Thorium-232	1	NV	pCi/g
MH-177-1	5/17/1989	RI/FS	479501.1	1352008.2	066322	Uranium, Total	15.8902094	NV	mg/kg
MH-177-1	5/17/1989	RI/FS	479501.2	1352008.3	066409	Uranium, Total	13	NV	mg/kg
MH-177-1	5/17/1989	RI/FS	479501.1	1352008.2	066324	Uranium, Total	11	UNV	mg/kg
MH-177-1	5/17/1989	RI/FS	479501.1	1352008.2	066323	Uranium, Total	11	UNV	mg/kg
MH-177-1	5/17/1989	RI/FS	479501.1	1352008.2	066322	Uranium-238	5.3	NV	pCi/g
MH-177-1	5/17/1989	RI/FS	479501.2	1352008.3	066409	Uranium-238	3.4	NV	pCi/g
MH-177-2	5/17/1989	RI/FS	479501.2	1352033.3	066410	Technetium-99	0.9	UNV	pCi/g
MH-177-2	5/17/1989	RI/FS	479501.2	1352033.3	066410	Thorium-228	0.7	NV	pCi/g
MH-177-2	5/17/1989	RI/FS	479501.2	1352033.3	066410	Thorium-230	1.3	NV	pCi/g
MH-177-2	5/17/1989	RI/FS	479501.2	1352033.3	066410	Thorium-232	0.8	NV	pCi/g

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
MH-177-2	5/17/1989	RI/FS	479501.1	1352033.2	066327	Uranium, Total	11	UNV	mg/kg
MH-177-2	5/17/1989	RI/FS	479501.1	1352033.2	066325	Uranium, Total	11	UNV	mg/kg
MH-177-2	5/17/1989	RI/FS	479501.1	1352033.2	066326	Uranium, Total	11	UNV	mg/kg
MH-177-2	5/17/1989	RI/FS	479501.2	1352033.3	066410	Uranium, Total	3.7	NV	mg/kg
MH-177-2	5/17/1989	RI/FS	479501.2	1352033.3	066410	Uranium-238	1	NV	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Cesium-137	0.2	UJ	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Neptunium-237	0.6	U	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Plutonium-238	0.6	U	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Plutonium-239/240	0.6	U	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Radium-226	1	J	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Radium-228	1.3	J	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Strontium-90	0.5	U	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Technetium-99	1	UJ	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Thorium-228	1.2	-	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Thorium-230	1.9	-	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Thorium-232	1.1	-	pCi/g
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005855	Uranium, Total	19	J	mg/kg
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005854	Uranium, Total	14.992722	J	mg/kg
OFFSITE-2	6/3/1988	RI/FS	480029.4	1352031.0	005854	Uranium-238	5	J	pCi/g
RVA14-301		Removal Action 14	480097.6	1351873.4	RVA14-301	Uranium, Total	11	UNV	MG/KG
RVA14-302		Removal Action 14	480121.5	1351857.1	RVA14-302	Uranium, Total	11	UNV	MG/KG
RVA14-303		Removal Action 14	480184.0	1351873.3	RVA14-303	Uranium, Total	12.2	UNV	MG/KG
RVA14-304		Removal Action 14	480229.1	1351875.7	RVA14-304	Uranium, Total	11	UNV	MG/KG
RVA14-305		Removal Action 14	480181.9	1351845.0	RVA14-305	Uranium, Total	11	UNV	MG/KG
RVA14-306		Removal Action 14	480151.4	1351838.2	RVA14-306	Uranium, Total	11	UNV	MG/KG
RVA14-308		Removal Action 14	480084.0	1351839.9	RVA14-308	Uranium, Total	11	UNV	MG/KG
RVA14-309		Removal Action 14	480228.6	1351836.3	RVA14-309	Uranium, Total	11	UNV	MG/KG
RVA14-310		Removal Action 14	480184.5	1351833.3	RVA14-310	Uranium, Total	11	UNV	MG/KG
RVA14-401		Removal Action 14	480690.4	1351848.3	RVA14-401	Uranium, Total	24.8	NV	MG/KG
RVA14-402		Removal Action 14	480702.5	1351861.7	RVA14-402	Uranium, Total	11	UNV	MG/KG
RVA14-403		Removal Action 14	480752.4	1351861.4	RVA14-403	Uranium, Total	11	UNV	MG/KG
RVA14-404		Removal Action 14	480794.2	1351946.9	RVA14-404	Uranium, Total	44.6	NV	MG/KG
RVA14-405		Removal Action 14	480785.9	1351987.4	RVA14-405	Uranium, Total	11	UNV	MG/KG
RVA14-406		Removal Action 14	480785.6	1352001.1	RVA14-406	Uranium, Total	11	UNV	MG/KG
RVA14-407		Removal Action 14	480785.0	1352011.6	RVA14-407	Uranium, Total	26.8	NV	MG/KG
RVA14-408		Removal Action 14	480761.3	1351898.7	RVA14-408	Uranium, Total	11	UNV	MG/KG

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
RVA14-409		Removal Action 14	480762.1	1351938.7	RVA14-409	Uranium, Total	11	UNV	MG/KG
RVA14-410		Removal Action 14	480761.8	1351959.2	RVA14-410	Uranium, Total	11	UNV	MG/KG
RVA14-411		Removal Action 14	480741.2	1351878.3	RVA14-411	Uranium, Total	11	UNV	MG/KG
RVA14-412		Removal Action 14	480740.8	1351938.6	RVA14-412	Uranium, Total	11	UNV	MG/KG
RVA14-413		Removal Action 14	480742.3	1351958.7	RVA14-413	Uranium, Total	11	UNV	MG/KG
RVA14-414		Removal Action 14	480721.3	1351877.7	RVA14-414	Uranium, Total	11	UNV	MG/KG
RVA14-415		Removal Action 14	480721.4	1351937.9	RVA14-415	Uranium, Total	11	UNV	MG/KG
RVA14-416		Removal Action 14	480701.8	1351897.9	RVA14-416	Uranium, Total	11	UNV	MG/KG
RVA14-417		Removal Action 14	480701.5	1351958.4	RVA14-417	Uranium, Total	11	UNV	MG/KG
RVA14-418		Removal Action 14	480681.2	1351877.4	RVA14-418	Uranium, Total	11	UNV	MG/KG
RVA14-419		Removal Action 14	480681.3	1351898.1	RVA14-419	Uranium, Total	11	UNV	MG/KG
RVA14-420		Removal Action 14	480680.8	1351917.8	RVA14-420	Uranium, Total	11	UNV	MG/KG
RVA14-421		Removal Action 14	480681.0	1351938.7	RVA14-421	Uranium, Total	11	UNV	MG/KG
RVA14-422		Removal Action 14	480680.5	1351958.6	RVA14-422	Uranium, Total	11	UNV	MG/KG
RVA14-423		Removal Action 14	480660.7	1351897.4	RVA14-423	Uranium, Total	11	UNV	MG/KG
RVA14-424		Removal Action 14	480661.8	1351918.2	RVA14-424	Uranium, Total	11	UNV	MG/KG
RVA14-425		Removal Action 14	480640.5	1351877.0	RVA14-425	Uranium, Total	11	UNV	MG/KG
RVA14-426		Removal Action 14	480640.8	1351897.3	RVA14-426	Uranium, Total	11	UNV	MG/KG
RVA14-427		Removal Action 14	480640.3	1351958.0	RVA14-427	Uranium, Total	52	NV	MG/KG
RVA14-428		Removal Action 14	480620.7	1351876.6	RVA14-428	Uranium, Total	16.4	NV	MG/KG
RVA14-429		Removal Action 14	480620.6	1351897.5	RVA14-429	Uranium, Total	11	UNV	MG/KG
RVA14-430		Removal Action 14	480620.4	1351917.1	RVA14-430	Uranium, Total	11	UNV	MG/KG
RVA14-431		Removal Action 14	480620.7	1351937.5	RVA14-431	Uranium, Total	11	UNV	MG/KG
RVA14-432		Removal Action 14	480600.5	1351896.8	RVA14-432	Uranium, Total	11	UNV	MG/KG
RVA14-433		Removal Action 14	480600.3	1351916.9	RVA14-433	Uranium, Total	11	UNV	MG/KG
RVA14-434		Removal Action 14	480601.2	1351958.1	RVA14-434	Uranium, Total	11	UNV	MG/KG
RVA14-435		Removal Action 14	480579.6	1351876.4	RVA14-435	Uranium, Total	11	UNV	MG/KG
RVA14-436		Removal Action 14	480580.3	1351897.0	RVA14-436	Uranium, Total	11	UNV	MG/KG
RVA14-437		Removal Action 14	480600.7	1351971.2	RVA14-437	Uranium, Total	11	UNV	MG/KG
RVA14-438		Removal Action 14	480608.5	1351971.7	RVA14-438	Uranium, Total	11	UNV	MG/KG
RVA14-439		Removal Action 14	480596.7	1352077.7	RVA14-439	Uranium, Total	11	UNV	MG/KG
RVA14-440		Removal Action 14	480589.2	1352068.7	RVA14-440	Uranium, Total	11	UNV	MG/KG
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Cesium-137	0.2	UJ	pCi/g
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Neptunium-237	0.6	U	pCi/g
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Plutonium-238	0.6	UJ	pCi/g
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Plutonium-239/240	0.6	UJ	pCi/g

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Radium-226	1.2	-	pCi/g
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Radium-228	1.1	J	pCi/g
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Strontium-90	0.5	UJ	pCi/g
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Technetium-99	1	U	pCi/g
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Thorium-228	1.2	J	pCi/g
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Thorium-230	3	J	pCi/g
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Thorium-232	1.1	J	pCi/g
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Uranium, Total	64.7517319	-	mg/kg
ZONE 3-207	5/5/1988	RI/FS	480279.4	1351834.0	005802	Uranium-238	21.6	-	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Cesium-137	0.2	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Cesium-137	0.2	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005210	Neptunium-237	0.6	U	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Neptunium-237	0.6	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Neptunium-237	0.6	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005210	Plutonium-238	0.6	U	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Plutonium-238	0.6	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Plutonium-238	0.6	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005210	Plutonium-239/240	0.6	U	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Plutonium-239/240	0.6	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Plutonium-239/240	0.6	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Radium-226	1.1	NV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Radium-226	0.5	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Radium-228	1.4	NV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Radium-228	1	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Strontium-90	2.6	NV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005210	Strontium-90	1.6	-	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Strontium-90	1.1	NV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005210	Technetium-99	1	U	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Technetium-99	1	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Technetium-99	1	UNV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Thorium-228	1.6	NV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Thorium-228	1.4	NV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005210	Thorium-228	1	-	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Thorium-230	2.1	NV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Thorium-230	1.9	NV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005210	Thorium-230	1.8	-	pCi/g

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Thorium-232	1.2	NV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Thorium-232	1.1	NV	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005210	Thorium-232	0.7	-	pCi/g
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005210	Uranium, Total	139.469881	-	mg/kg
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005211	Uranium, Total	55.6834356	NV	mg/kg
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005212	Uranium, Total	15.2925764	NV	mg/kg
ZONE 3-246	4/5/1988	RI/FS	480529.4	1351837.0	005210	Uranium-238	46.3	-	pCi/g
ZONE 3-265	5/5/1988	RI/FS	480529.4	1351837.0	005211	Uranium-238	18.6	NV	pCi/g
ZONE 3-265	5/5/1988	RI/FS	480529.4	1351837.0	005212	Uranium-238	5.1	NV	pCi/g
ZONE 3-265	5/5/1988	RI/FS	480779.4	1351841.0	005805	Cesium-137	1	J	pCi/g
ZONE 3-265	5/5/1988	RI/FS	480779.4	1351841.0	005805	Neptunium-237	0.6	U	pCi/g
ZONE 3-265	5/5/1988	RI/FS	480779.4	1351841.0	005805	Plutonium-238	0.6	U	pCi/g
ZONE 3-265	5/5/1988	RI/FS	480779.4	1351841.0	005805	Plutonium-239/240	0.6	U	pCi/g
ZONE 3-265	5/5/1988	RI/FS	480779.4	1351841.0	005805	Radium-226	0.9	-	pCi/g
ZONE 3-265	5/5/1988	RI/FS	480779.4	1351841.0	005805	Radium-228	1.1	J	pCi/g
ZONE 3-265	5/5/1988	RI/FS	480779.4	1351841.0	005805	Strontium-90	2.3	-	pCi/g
ZONE 3-265	5/5/1988	RI/FS	480779.4	1351841.0	005805	Technetium-99	1	U	pCi/g
ZONE 3-75	4/23/1988	RI/FS	480779.4	1351841.0	005805	Uranium, Total	70.592306	-	mg/kg
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Uranium-238	23.5	-	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Cesium-137	0.3	J	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Cesium-137	0.2	J	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Neptunium-237	0.6	U	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Neptunium-237	0.6	U	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Plutonium-238	0.6	U	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Plutonium-238	0.6	U	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Plutonium-239/240	0.6	U	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Plutonium-239/240	0.6	U	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Radium-226	0.9	J	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Radium-226	0.9	J	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Radium-228	0.8	J	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Radium-228	0.7	UJ	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Strontium-90	0.5	UJ	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Strontium-90	0.5	UJ	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Technetium-99	1	U	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Technetium-99	0.9	U	pCi/g
						Thorium-228	1.4	-	pCi/g

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TABLE A-2. REMAINING HISTORICAL DATA WITHIN AREA 9, PHASE II EAST OF AREA 1, PHASE II

Location ID	Sample Date	Sampling Event	Northing	Easting	Sample ID	Parameter	Result	Qual	Units
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Thorium-228	1.1	-	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Thorium-230	2.2	-	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Thorium-230	1.9	-	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Thorium-232	1.2	-	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Thorium-232	1.2	-	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Uranium, Total	28.887144	NV	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Uranium, Total	12.5938865	-	mg/kg
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.1	005372	Uranium-238	9.6	-	pCi/g
ZONE 3-75	4/23/1988	RI/FS	479529.4	1351822.0	005371	Uranium-238	4.2	-	pCi/g

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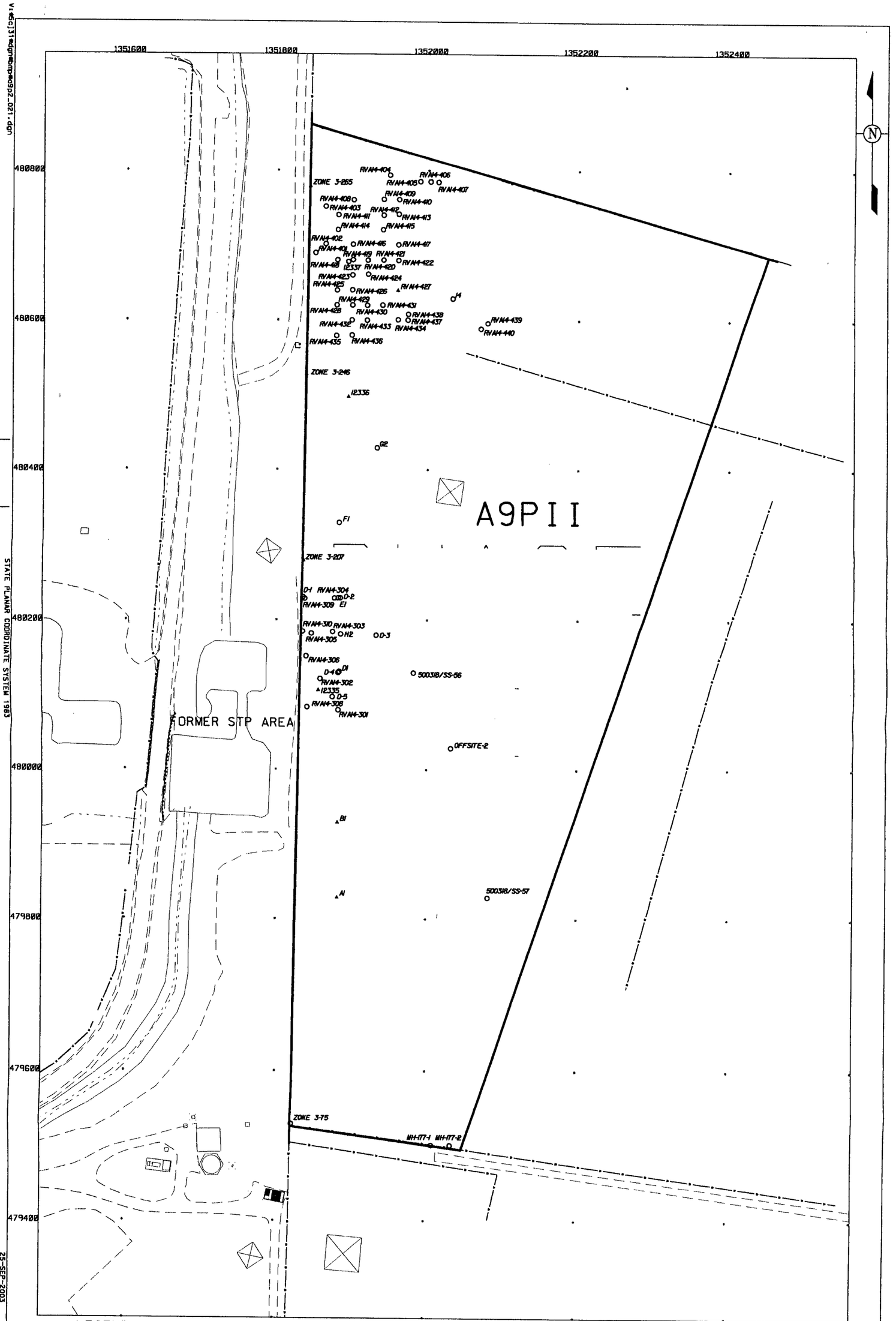

FIGURE A-1. REMAINING HISTORICAL DATA WITHIN A9PII EAST OF A1PII

APPENDIX B

REAL-TIME DATA MAPS AND TABLES

TABLE B-1. HPGe RESULTS
DETECTOR HEIGHT OF 100 CM

Location	Date	Northing	Easting	Det. Height	Ra-226 (pCi/g)	Th-232 (pCi/g)	Total U (ppm)
A9P2-P1-1-G	10/31/2002	480755	1352159	100cm	1.24	1.13	36.3
A9P2-P1-2-G	10/31/2002	480721	1352154	100cm	1.29	0.979	30.6
A9P2-P1-3-G	10/31/2002	480688	1352149	100cm	1.12	0.883	29
A9P2-P1-4-G	10/31/2002	480654	1352145	100cm	1.24	0.926	28.3
A9P2-P1-5-G	10/31/2002	480620	1352140	100cm	1.16	1.01	29.7
A9P2-P1-11-G	11/20/2002	484120	1349772	100cm	1.25	0.696	0
A9P2-P1-12-G	11/20/2002	484114	1349794	100cm	1.3	0.784	0.076
A9P2-P1-13-G	11/20/2002	484108	1349818	100cm	1.36	0.713	0
A9P2-P1-14-G	11/20/2002	484101	1349844	100cm	1.24	0.689	0
A9P2-P1-15-G	11/20/2002	484095	1349868	100cm	1.16	0.605	8.16
A9P2-P1-16-G	11/20/2002	484085	1349891	100cm	1.21	0.574	0
A9P2-P1-17-G	11/20/2002	484084	1349916	100cm	1.12	0.633	0
A9P2-P1-18-G	11/20/2002	484077	1349941	100cm	1.17	0.589	0
A9P2-P1-19-G	11/20/2002	484069	1349965	100cm	1.16	0.632	13.9
A9P2-P1-20-G	11/20/2002	484065	1349989	100cm	1.16	0.659	0.0831
A9P2-P1-20-G-D	11/20/2002	484065	1349989	100cm	1.23	0.647	0
A9P2-P1-25-G	3/12/2003	480733	1352191	100cm	1.01	0.929	26.1
A9P2-P1-26-G	3/12/2003	480713	1352222	100cm	1.04	0.94	28.9
A9P2-P1-27-G	3/12/2003	480706	1352256	100cm	1.1	1.03	32.5
A9P2-P1-28-G	3/12/2003	480690	1352289	100cm	1.06	0.982	29.5
A9P2-P1-29-D-G	3/12/2003	480677	1352322	100cm	1.06	0.976	32.2
A9P2-P1-29-G	3/12/2003	480677	1352322	100cm	0.97	0.887	27.7
A9P2-P1-30-G	3/12/2003	480660	1352354	100cm	0.987	0.853	31.4
A9P2-P1-31-G	3/12/2003	480657	1352187	100cm	0.922	0.818	20.8
A9P2-P1-32-G	3/12/2003	480646	1352221	100cm	0.98	0.803	21.9
A9P2-P1-33-G	3/12/2003	480633	1352256	100cm	0.928	0.788	22.3
A9P2-P1-34-G	3/12/2003	480617	1352291	100cm	0.989	0.789	20.7
A9P2-P1-35-G	3/12/2003	480604	1352323	100cm	0.99	0.842	17.5
A9P2-P1-36-G	3/12/2003	480640	1352373	100cm	0.993	0.861	26.9
A9P2-P1-37-G	3/12/2003	480618	1352350	100cm	0.899	0.674	28.8
A9P2-P1-38-G	3/12/2003	480576	1352353	100cm	0.804	0.586	29.2
A9P2-P1-39-G	3/12/2003	480545	1352373	100cm	0.799	0.63	0
A9P2-P1-40-G	3/12/2003	480507	1352372	100cm	0.818	0.54	14.4

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TABLE B-1. HPGe RESULTS
DETECTOR HEIGHT OF 100 CM

Location	Date	Northing	Easting	Det. Height	Ra-226 (pCi/g)	Th-232 (pCi/g)	Total U (ppm)
A9P2-P1-41-G	3/12/2003	480482	1352359	100cm	0.944	0.755	29.2
A9P2-P1-55-G	3/18/2003	480734	1352212	100cm	0.986	1.02	31.6
A9P2-P1-56-G	3/18/2003	480710	1352202	100cm	0.954	0.844	26.1
A9P2-P1-57-G	3/18/2003	480721	1352239	100cm	0.942	0.989	34.6
A9P2-P1-58-G	3/18/2003	480698	1352234	100cm	0.967	0.924	28.3
A9P2-P1-59-G	3/18/2003	480709	1352270	100cm	0.992	0.897	30.7
A9P2-P1-60-G	3/18/2003	480679	1352259	100cm	0.915	0.77	28
A9P2-P1-60-G-D	3/18/2003	480679	1352259	100cm	0.882	0.879	30.2
A9P2-P1-61-G	3/18/2003	480700	1352302	100cm	0.927	0.778	28.7
A9P2-P1-62-G	3/18/2003	480670	1352295	100cm	0.916	0.85	33.9
A9P2-P1-63-G	3/18/2003	480683	1352342	100cm	0.961	1.05	30.9
A9P2-P1-64-G	3/18/2003	480652	1352328	100cm	0.904	0.791	34.6
A9P2-P1-65-G	3/18/2003	480638	1352346	100cm	1.08	0.933	32.8
A9P2-P1-66-G	3/18/2003	480660	1352373	100cm	0.862	0.814	35.4

cm = centimeter
pCi/g = picoCuries per gram
ppm = parts per million

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TABLE B-2. HPGe RESULTS
DETECTOR HEIGHT OF 31 CM

Location	Date	Northing	Easting	Det. Height	Ra-226 pCi/g	Th-232 pCi/g	Total U ppm
A9P2-P2-6-G	11/13/2002	480799	1351880	31cm	1.31	1.18	44.3
A9P2-P2-7-G	11/13/2002	480804	1351868	31cm	1.27	1.11	37.6
A9P2-P2-8-G	11/13/2002	480008	1351852	31cm	1.47	1.13	34.7
A9P2-P2-9-G	11/13/2002	480006	1351857	31cm	1.61	1.15	31.4
A9P2-P2-10-G	11/13/2002	479967	1351904	31cm	1.46	1.22	23
A9P2-P2-10-D-G	11/13/2002	479967	1351904	31cm	1.47	1.2	24.4
A9P2-P2-21-G	11/21/2002	480422	1351953	31cm	1.17	1.32	40.2
A9P2-P2-22-G	11/21/2002	480545	1352050	31cm	1.41	1.23	25.7
A9P2-P2-23-G	11/21/2002	480331	1352137	31cm	1.19	1.12	26.5
A9P2-P2-23-G-D	11/21/2002	480331	1352137	31cm	1.26	1.11	24.6
A9P2-P2-24-G	11/21/2002	480366	1352206	31cm	1.2	1.23	22.4
A9P2-P2-67-g	4/3/2003	480505	1352173	31cm	1.13	1.12	31.6
A9P2-P2-67-D-g	4/3/2003	480505	1352173	31cm	1.1	1.14	31.7
A9P2-P1-75-G	10/3/2003	484065	1349999	31cm	1.13	0.92	0.121
A9P2-P1-76-G	10/3/2003	484062	1350011	31cm	1.19	1.13	0.0693
A9P2-P1-77-G	10/3/2003	484053	1350002	31cm	1.07	0.662	10.4
A9P2-P1-77-G-D	10/3/2003	484053	1350002	31cm	1.13	0.769	0.0583
A9P2-P1-78-G	10/3/2003	484050	1350016	31cm	1.1	0.776	0
A9P2-P1-79-G	10/3/2003	484059	1350024	31cm	1.12	0.915	14.4
A9P2-P1-80-G	10/3/2003	484057	1350037	31cm	1.09	0.912	0.0834
A9P2-P1-81-G	10/3/2003	484047	1350028	31cm	1.09	1.01	0.0887
A9P2-P1-82-G	10/3/2003	484054	1350050	31cm	0.767	0.693	0
A9P2-P1-83-G	10/3/2003	484051	1350063	31cm	0.918	0.808	0
A9P2-P1-84-G	10/3/2003	484048	1350075	31cm	0.994	0.742	7.6
A9P2-P1-85-G	10/3/2003	484045	1350088	31cm	0.871	0.904	0.0937
A9P2-P1-86-G	10/3/2003	484042	1350101	31cm	0.909	0.866	0
A9P2-P1-87-G	10/3/2003	484039	1350113	31cm	0.735	0.73	0.0913
A9P2-P1-88-G	10/3/2003	484036	1350126	31cm	0.795	0.895	17.3
A9P2-P1-89-G	10/3/2003	484034	1350138	31cm	0.849	0.792	0.088
A9P2-P1-90-G	10/3/2003	484032	1350151	31cm	0.768	0.805	0
A9P2-P1-91-G	10/3/2003	484031	1350164	31cm	0.733	0.694	0
A9P2-P1-92-G	10/3/2003	484030	1350177	31cm	0.798	0.683	0.103
A9P2-P1-93-G	10/3/2003	484029	1350190	31cm	1.21	0.82	0

cm = centimeter
pCi/g = picoCuries per gram
ppm = parts per million

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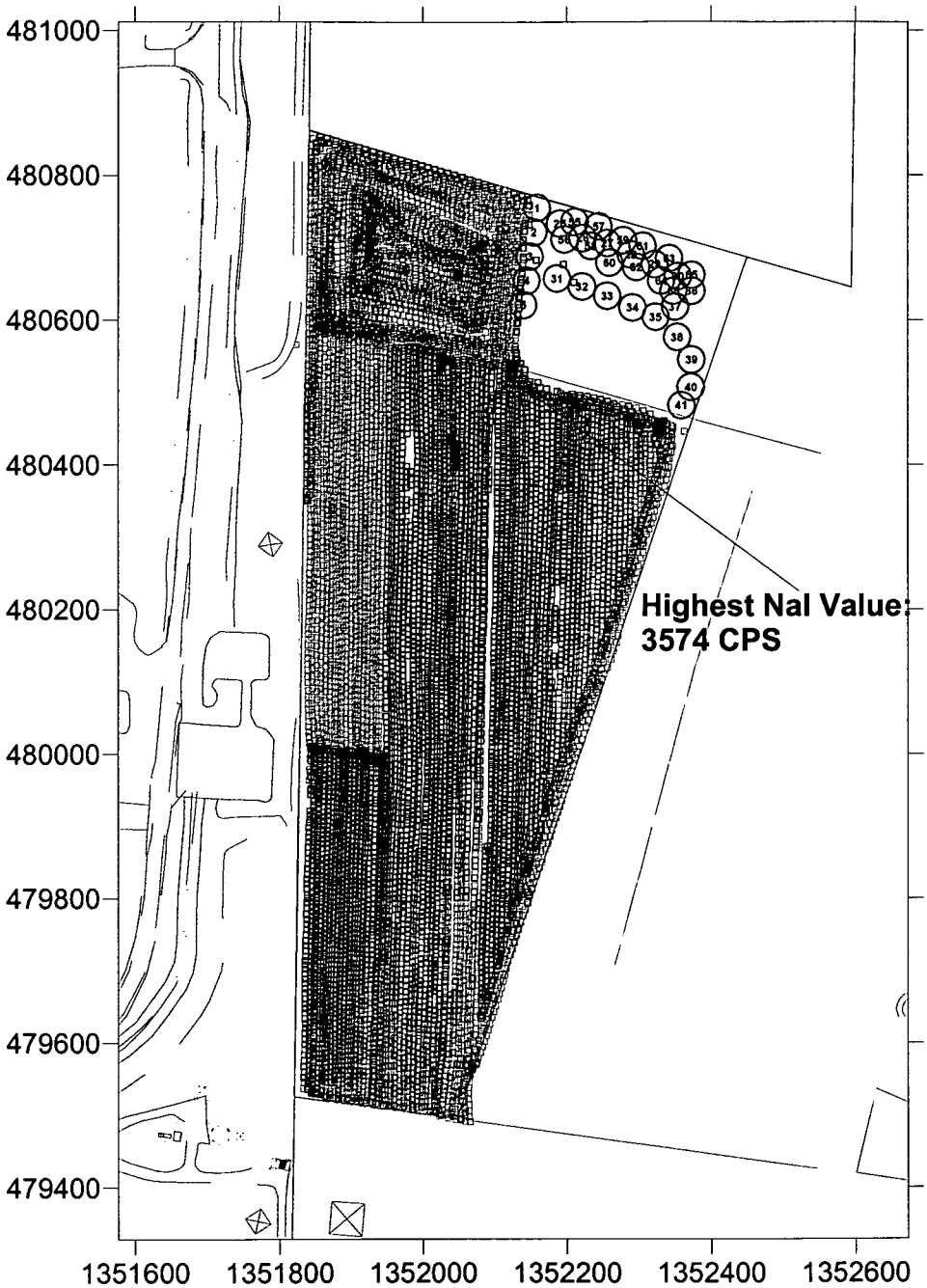
A9P2, Phase 1

5101

Total Gross Counts per Second
Field of View to Scale
HPGe DET #: 30687, 31265, 40743
NaI Batch #: GATOR- 167-169; RSS1- 775,782,783,787-790
RSS3- 41
Measurement Dates: 10/23/02 - 03/18/03

N



NaI Total CPS
0 to 3000
3000 to 5000
5000 to 15000
15000 to 18000
18000 to 99999

HPGe shown for coverage only

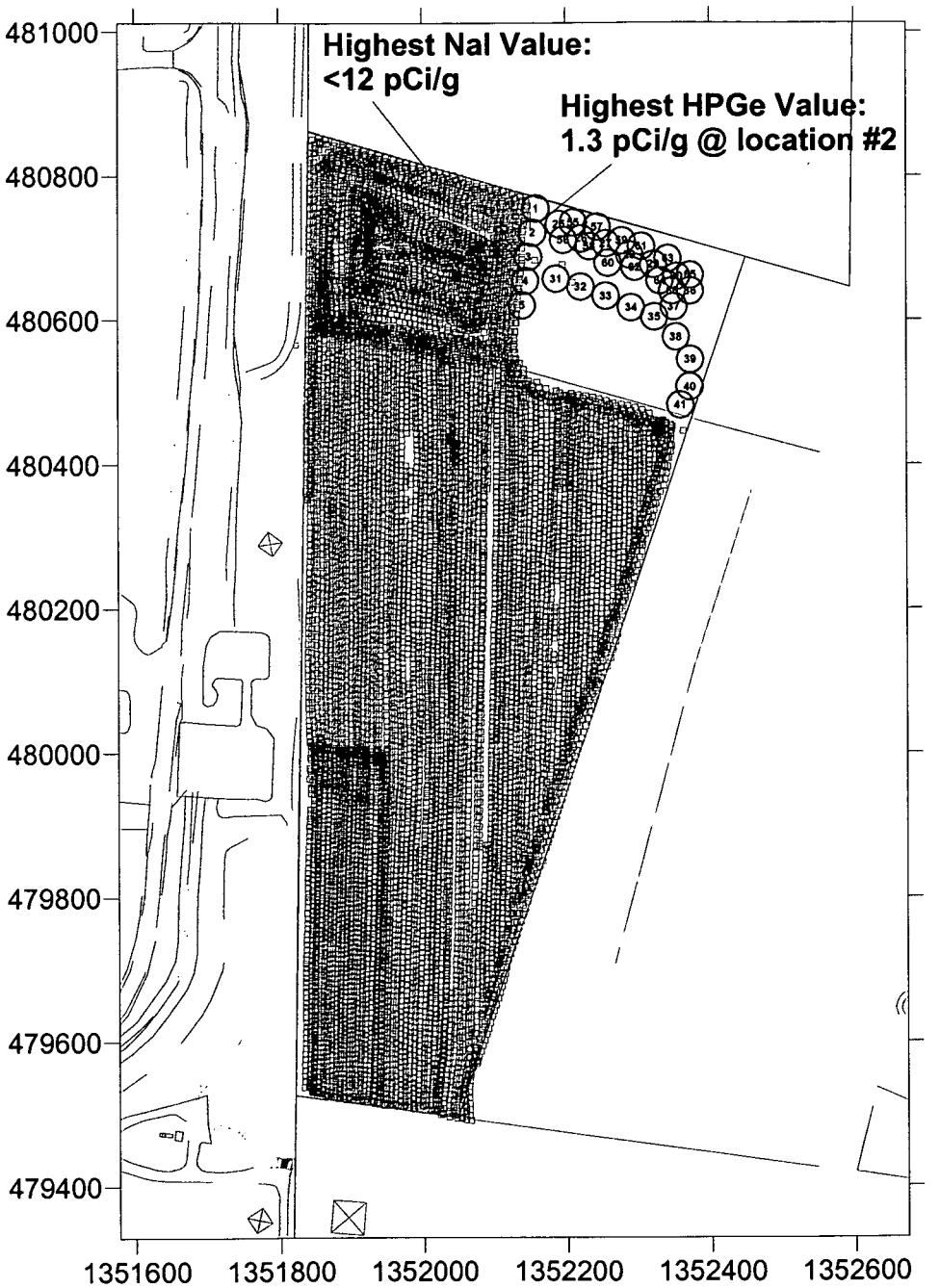
RTIMP DWG Title: A9P2_P1_TC.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 04/04/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2_P1_NaI.xls
A9P2_P1_NaI_V2.0.xls
A9P2_P1_HPGe_100cm.xls

000065

A9P2, Phase 1

Moisture Corrected Radium-226
Field of View to Scale
HPGe DET #: 30687, 31265, 40743
NaI Batch #: GATOR- 167-169; RSS1- 775,782,783,787-790
RSS3- 41
Measurement Dates: 10/23/02 - 03/18/03

N



NaI Ra-226 (pCi/g)	
☐	-3 to 12
☐	12 to 9999

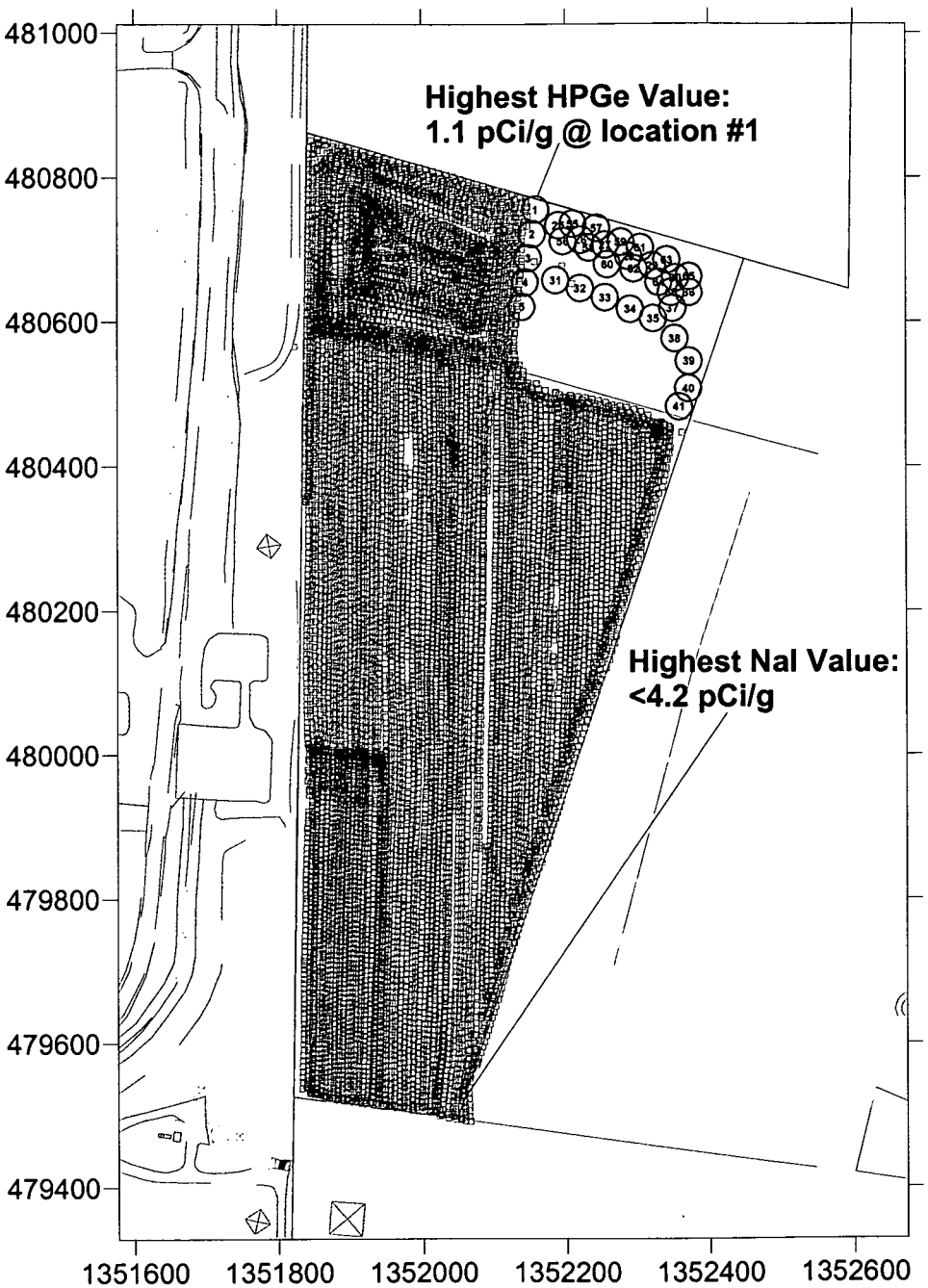
HPGe @ 100cm Ra-226 (pCi/g)	
○	0 to 3
○	3 to 9999

RTIMP DWG Title: A9P2_P1_RA.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 04/04/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2_P1_NaI.xls
A9P2_P1_NaI_V2.0.xls
A9P2_P1_HPGe_100cm.xls

A9P2, Phase 1

Moisture Corrected Thorium-232
Field of View to Scale
HPGe DET #: 30687, 31265, 40743
NaI Batch #: GATOR- 167-169; RSS1- 775,782,783,787-790
RSS3- 41
Measurement Dates: 10/23/02 - 03/18/03

N



NaI Th-232 (pCi/g)
-1 to 4.2
4.2 to 9999

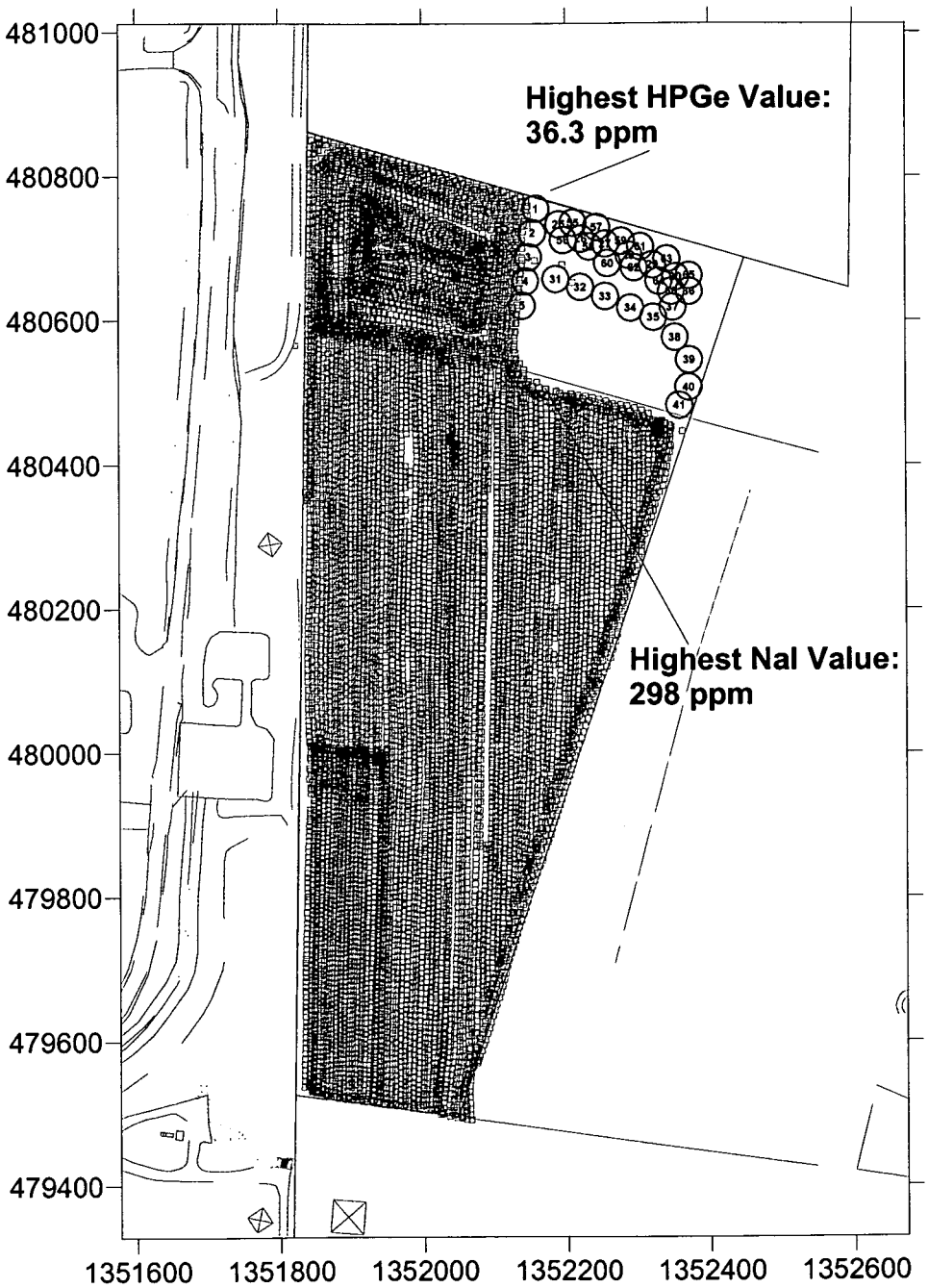
HPGe @ 100cm Th-232 (pCi/g)
0 to 2.8
2.8 to 9999

RTIMP DWG Title: A9P2_P1_TH.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 04/04/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2_P1_NaI.xls
A9P2_P1_NaI_V2.0.xls
A9P2_P1_HPGe_100cm.xls

A9P2, Phase 1

Moisture Corrected Total Uranium
Field of View to Scale
HPGe DET #: 30687, 31265, 40743
NaI Batch #: GATOR- 167-169; RSS1- 775,782,783,787-790
RSS3- 41
Measurement Dates: 10/23/02 - 03/18/03

N



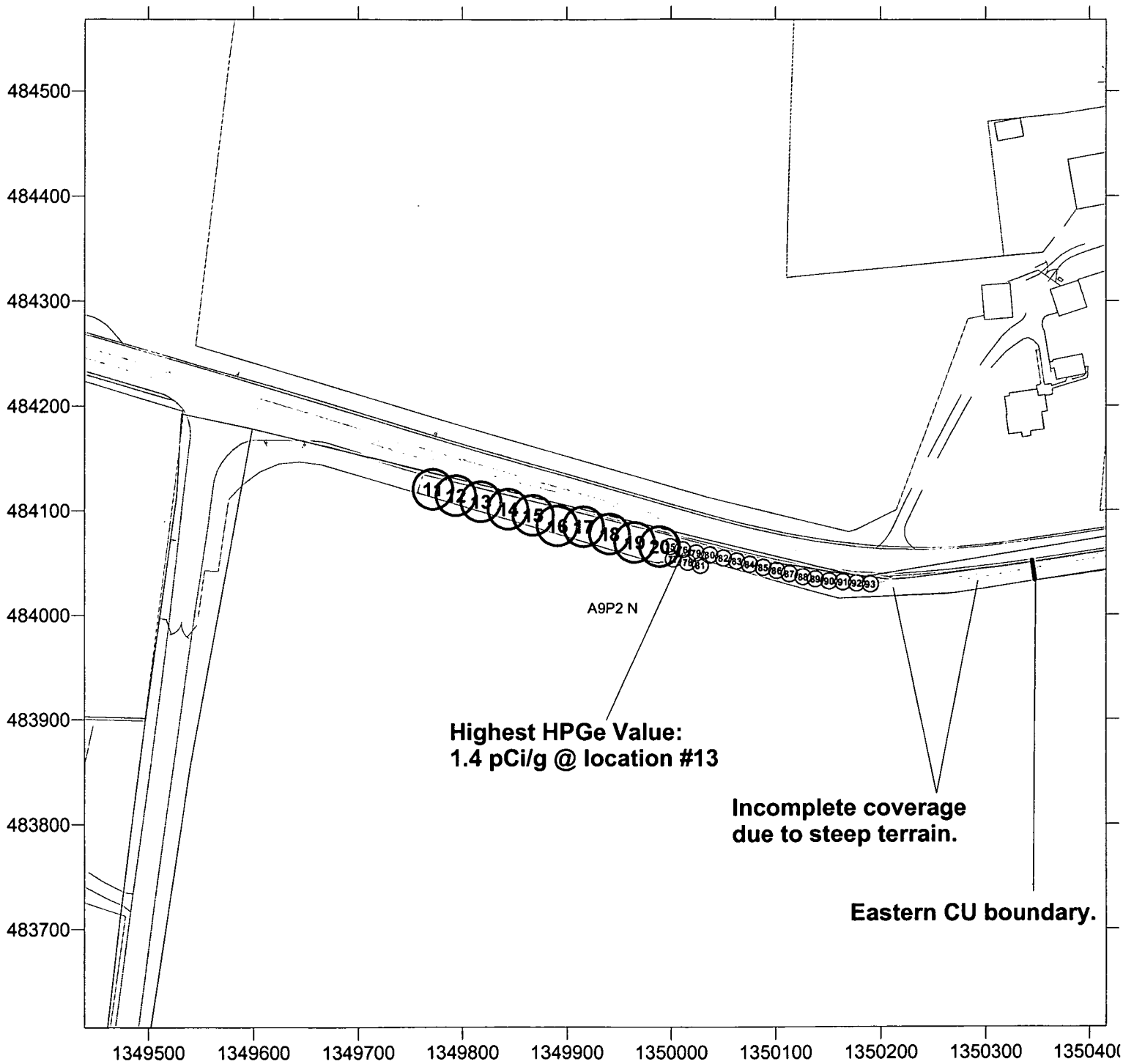
NaI Total U (ppm)
-213 to 246
246 to 721
721 to 9999

HPGe @ 100cm Total U (ppm)
0 to 100
100 to 400
400 to 9999

RTIMP DWG Title: A9P2_P1_TU.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 03/28/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2_P1_NaI.xls
A9P2_P1_NaI_V2.0.xls
A9P2_P1_HPGe_100cm.xls

A9P2 North, Phase 1

Moisture Corrected Radium-226
Field of View to Scale
HPGe DET #: 31265, 40227
Measurement Dates: 11/20/02 - 10/03/03



HPGe @ 100cm Ra-226 (pCi/g)	HPGe @ 31cm Ra-226 (pCi/g)
◯ 0 to 5.1	◯ 0 to 5.1
◯ 5.1 to 9999	◯ 5.1 to 9999

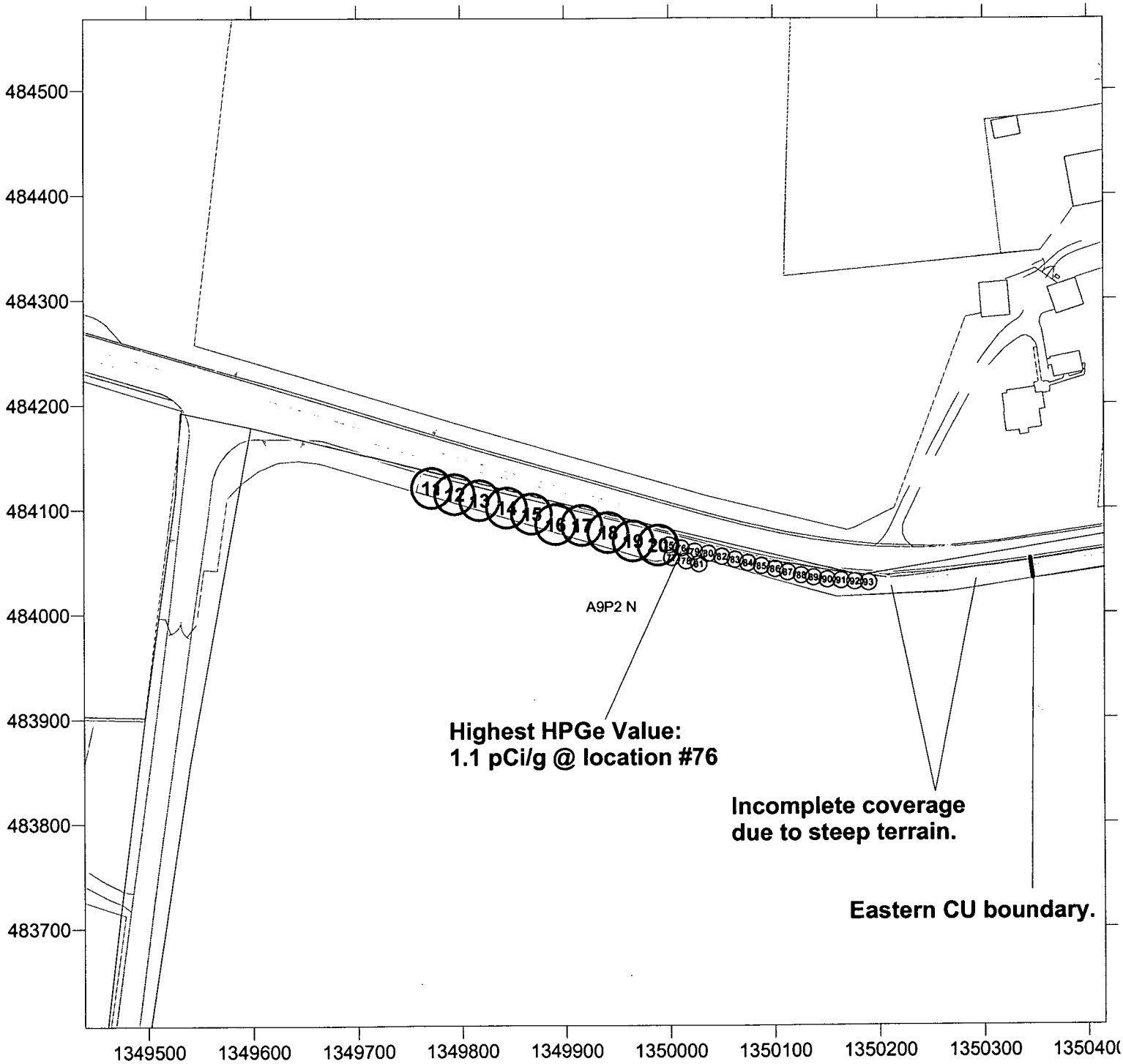
RTIMP DWG Title: A9P2N_P1_RA.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 10/07/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2N_P1_HPGe_31cm.xls
A9P2N_P1_HPGe_100cm.xls

A9P2 North, Phase 1

5101

N

Moisture Corrected Thorium-232
Field of View to Scale
HPGe DET #: 31265, 40227
Measurement Dates: 11/20/02 - 10/03/03



HPGe @ 100cm Th-232 (pCi/g)	HPGe @ 31cm Th-232 (pCi/g)
◯ 0 to 4.5	◯ 0 to 4.5
◯ 4.5 to 9999	◯ 4.5 to 9999

RTIMP DWG Title: A9P2N_P1_TH.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 10/07/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2N_P1_HPGe_31cm.xls
A9P2N_P1_HPGe_100cm.xls

000070

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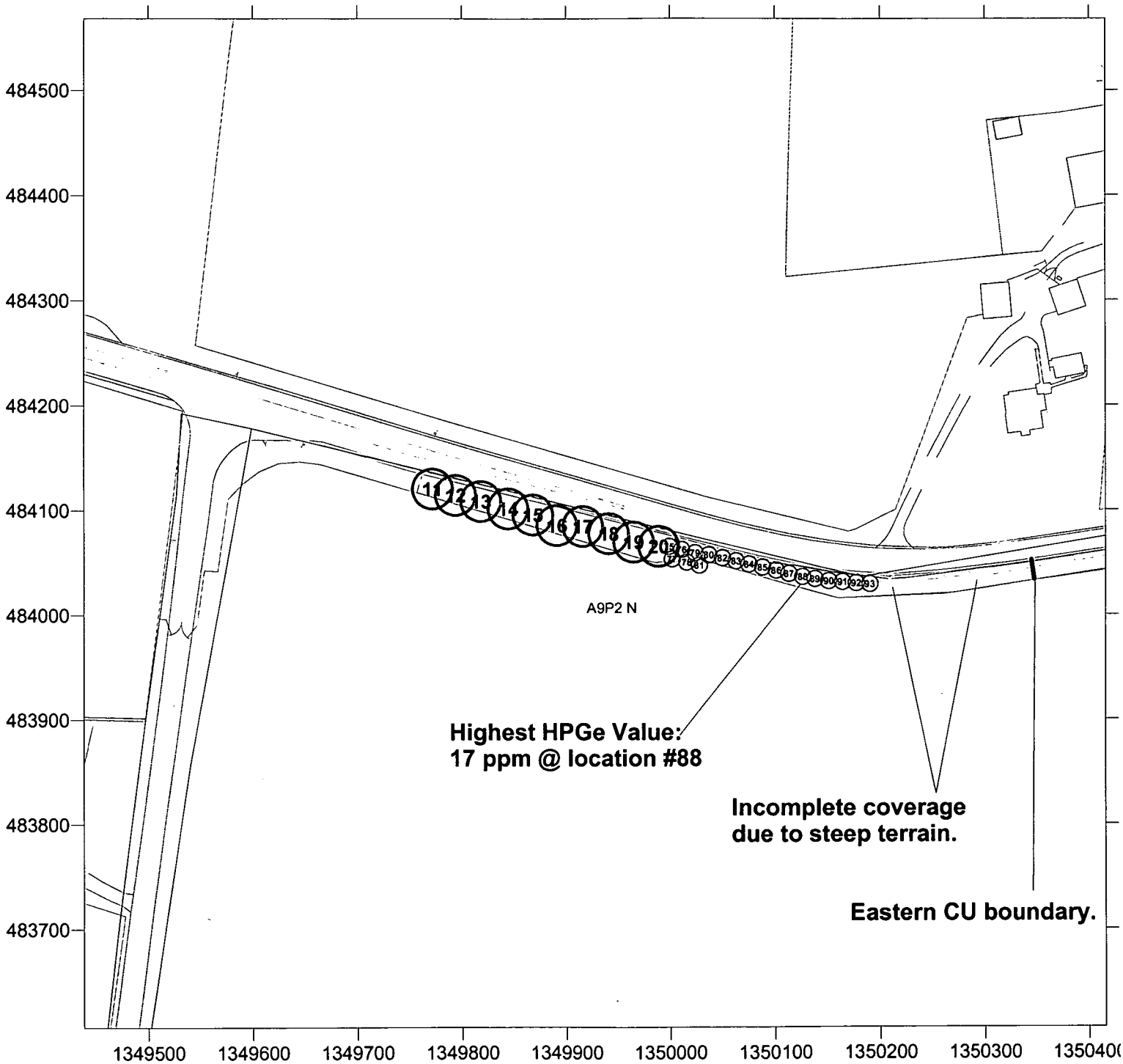
A9P2 North, Phase 1

Moisture Corrected Total Uranium
Field of View to Scale
HPGe DET #: 31265, 40227
Measurement Dates: 11/20/02 - 10/03/03



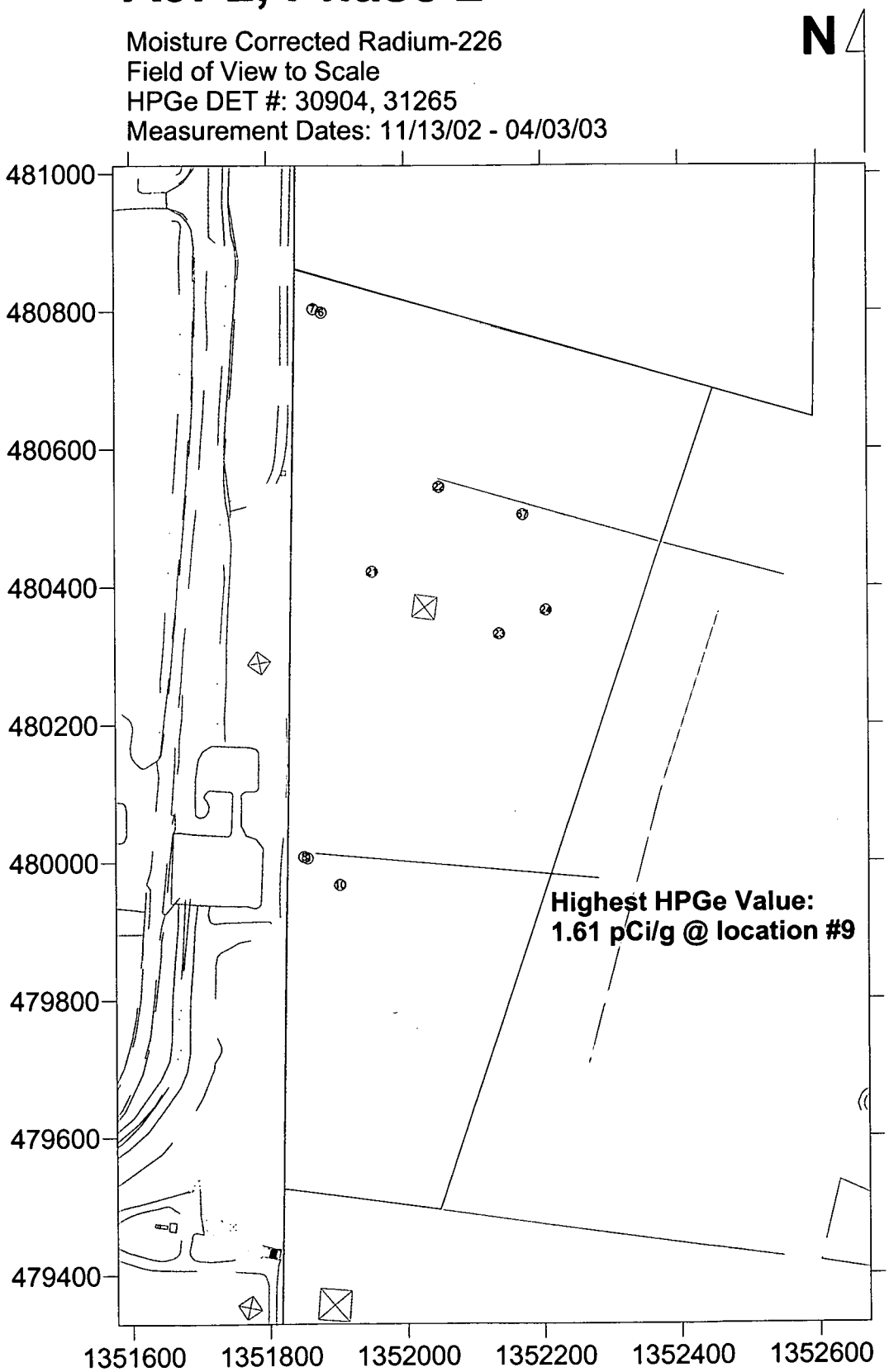
HPGe @ 100cm Total U (ppm)	HPGe @ 31cm Total U (ppm)
○ 0 to 246	○ 0 to 246
○ 246 to 400	○ 246 to 928
○ 400 to 9999	● 928 to 9999

RTIMP DWG Title: A9P2N_P1_TU.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 10/07/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2N_P1_HPGe_31cm.xls
A9P2N_P1_HPGe_100cm.xls

000071

A9P2, Phase 2

Moisture Corrected Radium-226
Field of View to Scale
HPGe DET #: 30904, 31265
Measurement Dates: 11/13/02 - 04/03/03

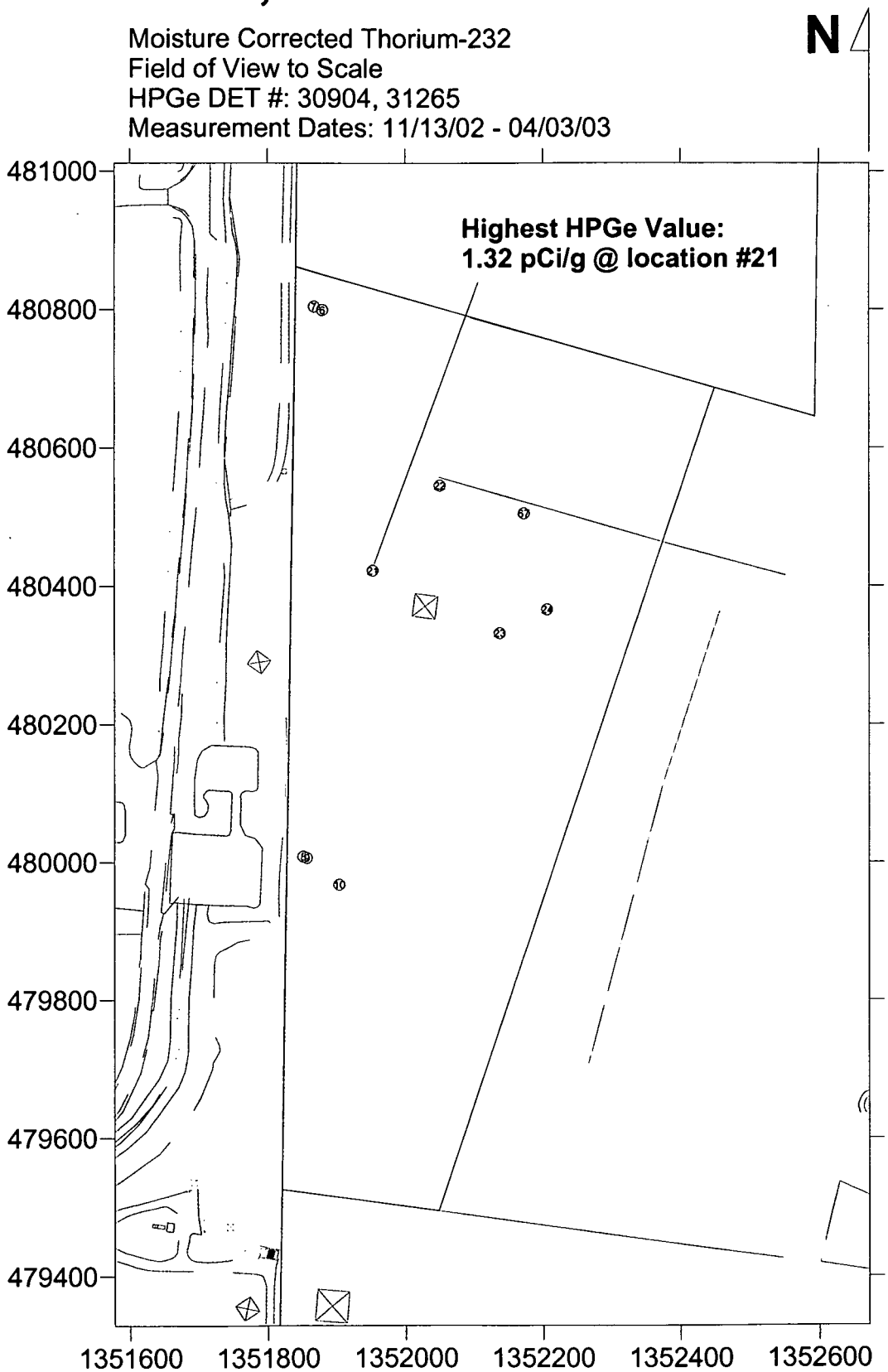


HPGe @ 31cm
Ra-226 (pCi/g)
0 to 3
3 to 9999

RTIMP DWG Title: A9P2_P2_RA.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 04/04/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2_P2_HPGe_31cm.xls

A9P2, Phase 2

Moisture Corrected Thorium-232
Field of View to Scale
HPGe DET #: 30904, 31265
Measurement Dates: 11/13/02 - 04/03/03

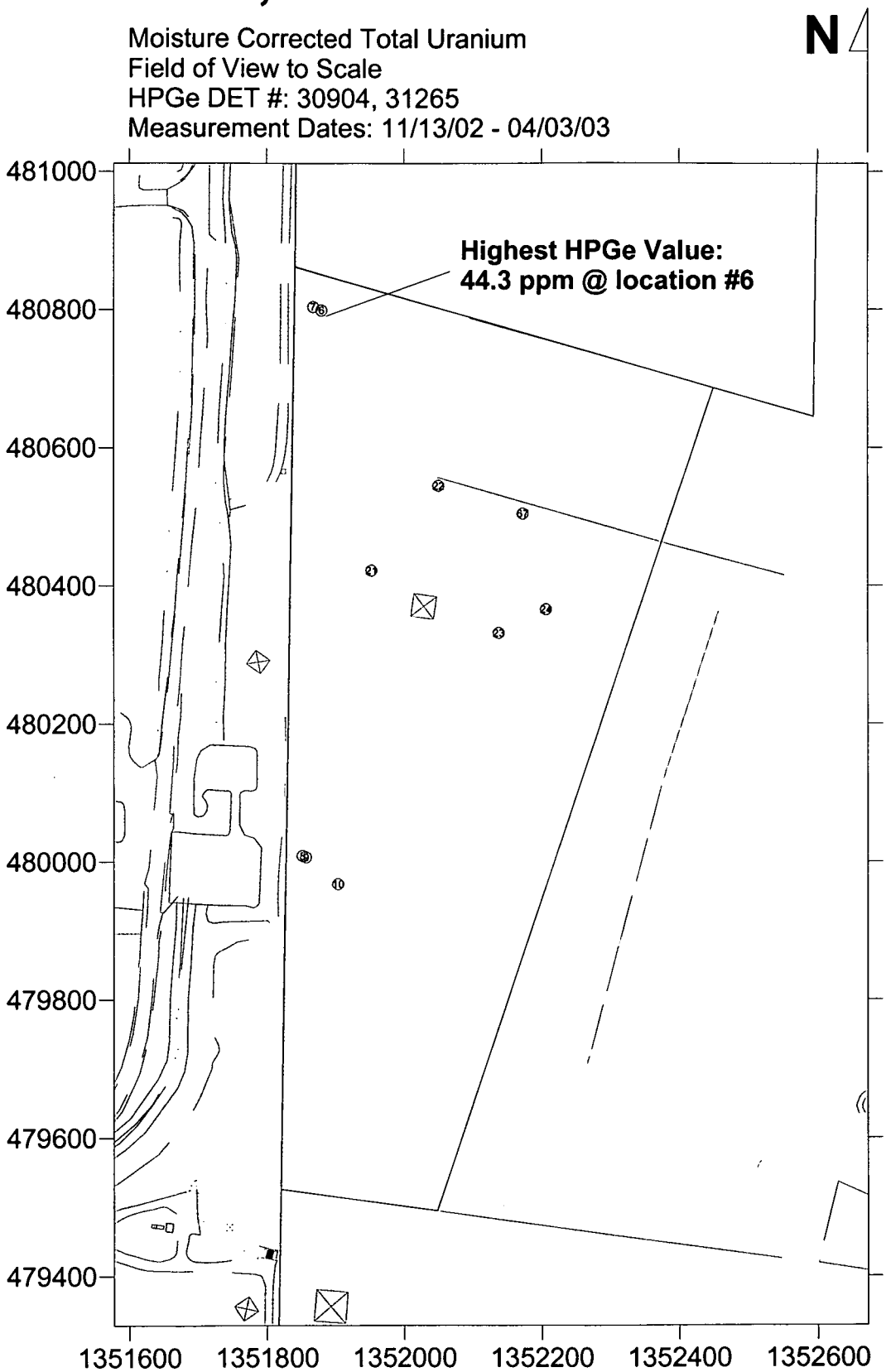


HPGe @ 31cm
Th-232 (pCi/g)
○ 0 to 2.8
○ 2.8 to 9999

RTIMP DWG Title: A9P2_P2_TH.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 04/04/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2_P2_HPGe_31cm.xls

A9P2, Phase 2

Moisture Corrected Total Uranium
Field of View to Scale
HPGe DET #: 30904, 31265
Measurement Dates: 11/13/02 - 04/03/03



HPGe @ 31cm
Total U (ppm)
- 0 to 100
- 100 to 928
- 928 to 9999

RTIMP DWG Title: A9P2_P2_TU.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 04/04/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2_P2_HPGe_31cm.xls

APPENDIX C

PRECERTIFICATION PHYSICAL SAMPLE DATA

APPENDIX C
ABBREVIATIONS AND SYMBOLS

Column Heading Where Abbreviation or Symbol Used	Abbreviation or Symbol Used	Corresponding Definition
Qualifier		
	-	Positive result
	J	Estimated result
	NV	Not validated
	U	Non detect
	UNV	Non detect, not validated
Units		
	pCi/g	picoCuries per gram
	mg/kg	milligrams per kilogram
	ug/kg	micrograms per kilogram
	pg/g	picogram per gram
Parameter	2,3,7,8-TCDD	2,3,7,8-Tetrachlorodibenzo-p-dioxin
	1,2,3,7,8-PeCDD	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
	1,2,3,4,7,8-HxCDD	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
	1,2,3,6,7,8-HxCDD	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
	1,2,3,7,8,9-HxCDD	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
	1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
	OCDD	Octachlorodibenzo-p-dioxin
	2,3,7,8-TCDF	2,3,7,8-Tetrachlorodibenzofuran
	1,2,3,7,8-PeCDF	1,2,3,7,8-Pentachlorodibenzofuran
	2,3,4,7,8-PeCDF	2,3,4,7,8-Pentachlordibenzofuran
	1,2,3,4,7,8-HxCDF	1,2,3,4,7,8-Hexachlorodibenzofuran
	1,2,3,6,7,8-HxCDF	1,2,3,6,7,8-Hexachlorodibenzofuran
	1,2,3,7,8,9-HxCDF	1,2,3,7,8,9-Hexachlorodibenzofuran
	2,3,4,6,7,8-HxCDF	2,3,4,6,7,8-Hexachlorodibenzofuran
	1,2,3,4,6,7,8-HpCDF	1,2,3,4,6,7,8-Heptachlorodibenzofuran
	1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8,9-Heptachlorodibenzofuran
	OCDF	Octachlorodibenzofuran

TABLE C-1. PRECERTIFICATION PHYSICAL SAMPLE DATA

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-S1	2/24/2003	480723.308	1352181.599	A9P2-S1^1-TU	0	0.5	Uranium, Total	23.7	-	mg/kg dry
A9P2-S2	2/24/2003	480657.881	1352352.826	A9P2-S2^1-TU	0	0.5	Uranium, Total	24.1	-	mg/kg dry
A9P2-S3	2/24/2003	480567.342	1352188.263	A9P2-S3^1-TU	0	0.5	Uranium, Total	13.2	-	mg/kg dry
A9P2-S4	2/24/2003	480548.907	1352348.156	A9P2-S4^1-TU	0	0.5	Uranium, Total	30.2	-	mg/kg dry
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-L	0	0.5	Tetrachloroethene	2.1	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-MP	0	0.5	Antimony	1.3	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-MP	0	0.5	Arsenic	5.4	-	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-MP	0	0.5	Beryllium	0.45	-	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-MP	0	0.5	Lead	10.6	J	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-MP	0	0.5	Molybdenum	0.82	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-MP	0	0.5	Aroclor-1254	4.4	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-MP	0	0.5	Aroclor-1260	4.4	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-R	0	0.5	Radium-226	0.68	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-R	0	0.5	Radium-228	0.587	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-R	0	0.5	Technetium-99	0.331	UNV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-R	0	0.5	Thorium-228	0.597	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-R	0	0.5	Thorium-232	0.587	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^1-TU	0	0.5	Uranium, Total	4.72	U	mg/kg dry
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-L	0.5	1	Tetrachloroethene	2.4	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-MP	0.5	1	Antimony	0.72	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-MP	0.5	1	Arsenic	11.2	-	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-MP	0.5	1	Beryllium	0.78	-	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-MP	0.5	1	Lead	12.3	J	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-MP	0.5	1	Molybdenum	1	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-MP	0.5	1	Aroclor-1254	4.1	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-MP	0.5	1	Aroclor-1260	4.1	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-R	0.5	1	Radium-226	1.1	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-R	0.5	1	Radium-228	1.17	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-R	0.5	1	Technetium-99	0.318	UNV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-R	0.5	1	Thorium-228	1.13	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-R	0.5	1	Thorium-232	1.17	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^2-TU	0.5	1	Uranium, Total	4.98	U	mg/kg dry
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-L	1	1.5	Tetrachloroethene	2.3	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-MP	1	1.5	Antimony	0.77	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-MP	1	1.5	Arsenic	8.1	-	mg/kg

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TABLE C-1. PRECERTIFICATION PHYSICAL SAMPLE DATA

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-MP	1	1.5	Beryllium	0.87	-	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-MP	1	1.5	Lead	11.4	J	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-MP	1	1.5	Molybdenum	0.95	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-MP	1	1.5	Aroclor-1254	4.2	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-MP	1	1.5	Aroclor-1260	4.2	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-R	1	1.5	Radium-226	1.2	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-R	1	1.5	Radium-228	1.32	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-R	1	1.5	Technetium-99	0.308	UNV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-R	1	1.5	Thorium-228	1.34	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-R	1	1.5	Thorium-232	1.32	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^3-TU	1	1.5	Uranium, Total	4.99	U	mg/kg dry
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-L	1.5	2	Tetrachloroethene	2.5	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-MP	1.5	2	Antimony	0.6	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-MP	1.5	2	Arsenic	13.6	-	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-MP	1.5	2	Beryllium	0.87	-	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-MP	1.5	2	Lead	13.3	J	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-MP	1.5	2	Molybdenum	1.3	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-MP	1.5	2	Aroclor-1254	4.2	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-MP	1.5	2	Aroclor-1260	4.2	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-R	1.5	2	Radium-226	1.19	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-R	1.5	2	Radium-228	1.29	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-R	1.5	2	Technetium-99	0.42	UNV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-R	1.5	2	Thorium-228	1.29	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-R	1.5	2	Thorium-232	1.29	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^4-TU	1.5	2	Uranium, Total	4.97	U	mg/kg dry
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-L	2	2.5	Tetrachloroethene	2.3	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-MP	2	2.5	Antimony	0.74	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-MP	2	2.5	Arsenic	14.5	-	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-MP	2	2.5	Beryllium	1.5	-	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-MP	2	2.5	Lead	13.1	J	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-MP	2	2.5	Molybdenum	1.7	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-MP	2	2.5	Aroclor-1254	4.2	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-MP	2	2.5	Aroclor-1260	4.2	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-R	2	2.5	Radium-226	1.12	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-R	2	2.5	Radium-228	1.28	NV	pCi/g

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TABLE C-1. PRECERTIFICATION PHYSICAL SAMPLE DATA

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-R	2	2.5	Technetium-99	0.956	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-R	2	2.5	Thorium-228	1.3	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-R	2	2.5	Thorium-232	1.28	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^5-TU	2	2.5	Uranium, Total	4.97	U	mg/kg dry
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-L	2.5	3	Tetrachloroethene	2.3	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-MP	2.5	3	Antimony	0.94	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-MP	2.5	3	Arsenic	12.3	-	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-MP	2.5	3	Beryllium	0.85	-	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-MP	2.5	3	Lead	9.9	J	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-MP	2.5	3	Molybdenum	1.3	U	mg/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-MP	2.5	3	Aroclor-1254	4.1	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-MP	2.5	3	Aroclor-1260	4.1	U	ug/kg
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-R	2.5	3	Radium-226	1.1	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-R	2.5	3	Radium-228	1.21	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-R	2.5	3	Technetium-99	0.248	UNV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-R	2.5	3	Thorium-228	1.22	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-R	2.5	3	Thorium-232	1.21	NV	pCi/g
A9P2-PC1	2/24/2003	480626.141	1351882.901	A9P2-PC1^6-TU	2.5	3	Uranium, Total	4.9	U	mg/kg dry
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-L	0	0.5	Tetrachloroethene	2.4	UNV	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-MP	0	0.5	Antimony	0.39	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-MP	0	0.5	Arsenic	8.1	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-MP	0	0.5	Beryllium	0.49	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-MP	0	0.5	Lead	23.5	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-MP	0	0.5	Molybdenum	1.5	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-MP	0	0.5	Aroclor-1254	4.2	UNV	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-MP	0	0.5	Aroclor-1260	4.2	UNV	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-R	0	0.5	Radium-226	0.948	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-R	0	0.5	Radium-228	0.985	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-R	0	0.5	Technetium-99	0.293	U	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-R	0	0.5	Thorium-228	0.974	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-R	0	0.5	Thorium-232	0.985	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^1-TU	0	0.5	Uranium, Total	15.7	NV	mg/kg dry
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-L	0.5	1	Tetrachloroethene	2.4	UNV	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-MP	0.5	1	Antimony	0.45	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-MP	0.5	1	Arsenic	7.8	NV	mg/kg

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TABLE C-1. PRECERTIFICATION PHYSICAL SAMPLE DATA

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-MP	0.5	1	Beryllium	0.54	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-MP	0.5	1	Lead	16.8	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-MP	0.5	1	Molybdenum	1.2	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-MP	0.5	1	Aroclor-1254	4.2	UNV	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-MP	0.5	1	Aroclor-1260	4.2	UNV	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-R	0.5	1	Radium-226	0.984	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-R	0.5	1	Radium-228	1.05	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-R	0.5	1	Technetium-99	0.339	U	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-R	0.5	1	Thorium-228	1.06	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-R	0.5	1	Thorium-232	1.05	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^2-TU	0.5	1	Uranium, Total	12.8	NV	mg/kg dry
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-L	1	1.5	Tetrachloroethene	2.5	U	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-MP	1	1.5	Antimony	0.77	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-MP	1	1.5	Arsenic	7.6	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-MP	1	1.5	Beryllium	0.77	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-MP	1	1.5	Lead	15.9	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-MP	1	1.5	Molybdenum	1.1	NV	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-MP	1	1.5	Aroclor-1254	4.2	UNV	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-MP	1	1.5	Aroclor-1260	4.2	UNV	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-R	1	1.5	Radium-226	1.01	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-R	1	1.5	Radium-228	1.14	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-R	1	1.5	Technetium-99	0.31	U	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-R	1	1.5	Thorium-228	1.14	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-R	1	1.5	Thorium-232	1.14	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^3-TU	1	1.5	Uranium, Total	4.9	UNV	mg/kg dry
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-L	1.5	2	Tetrachloroethene	2.2	U	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-MP	1.5	2	Antimony	0.87	U	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-MP	1.5	2	Arsenic	11	-	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-MP	1.5	2	Beryllium	0.92	-	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-MP	1.5	2	Lead	15.6	J	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-MP	1.5	2	Molybdenum	1.4	U	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-MP	1.5	2	Aroclor-1254	4.3	U	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-MP	1.5	2	Aroclor-1260	4.3	U	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-R	1.5	2	Radium-226	0.986	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-R	1.5	2	Radium-228	1.14	-	pCi/g

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TABLE C-1. PRECERTIFICATION PHYSICAL SAMPLE DATA

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-R	1.5	2	Technetium-99	0.314	U	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-R	1.5	2	Thorium-228	1.15	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-R	1.5	2	Thorium-232	1.14	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^4-TU	1.5	2	Uranium, Total	4.88	UNV	mg/kg dry
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-L	2	2.5	Tetrachloroethene	2.3	U	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-MP	2	2.5	Antimony	0.94	U	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-MP	2	2.5	Arsenic	12.5	-	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-MP	2	2.5	Beryllium	0.88	-	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-MP	2	2.5	Lead	12.1	J	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-MP	2	2.5	Molybdenum	1.4	U	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-MP	2	2.5	Aroclor-1254	4.3	U	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-MP	2	2.5	Aroclor-1260	4.3	U	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-R	2	2.5	Radium-226	1.02	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-R	2	2.5	Radium-228	1.07	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-R	2	2.5	Technetium-99	0.279	U	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-R	2	2.5	Thorium-228	1.1	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-R	2	2.5	Thorium-232	1.07	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^5-TU	2	2.5	Uranium, Total	5	UNV	mg/kg dry
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-L	2.5	3	Tetrachloroethene	2.7	U	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-MP	2.5	3	Antimony	0.98	U	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-MP	2.5	3	Arsenic	10.7	-	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-MP	2.5	3	Beryllium	0.64	-	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-MP	2.5	3	Lead	9.6	J	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-MP	2.5	3	Molybdenum	1.6	U	mg/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-MP	2.5	3	Aroclor-1254	4.3	U	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-MP	2.5	3	Aroclor-1260	4.3	U	ug/kg
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-R	2.5	3	Radium-226	0.995	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-R	2.5	3	Radium-228	1.15	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-R	2.5	3	Technetium-99	0.326	U	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-R	2.5	3	Thorium-228	1.16	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-R	2.5	3	Thorium-232	1.15	-	pCi/g
A9P2-PC2	2/25/2003	480250.636	1352192.225	A9P2-PC2^6-TU	2.5	3	Uranium, Total	4.99	UNV	mg/kg dry
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-L	0	0.5	Tetrachloroethene	2.1	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-MP	0	0.5	Antimony	0.72	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-MP	0	0.5	Arsenic	5.3	NV	mg/kg

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TABLE C-1. PRECERTIFICATION PHYSICAL SAMPLE DATA

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-MP	0	0.5	Beryllium	0.62	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-MP	0	0.5	Lead	9.1	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-MP	0	0.5	Molybdenum	1.5	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-MP	0	0.5	Aroclor-1254	4.2	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-MP	0	0.5	Aroclor-1260	4.2	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-R	0	0.5	Radium-226	0.911	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-R	0	0.5	Radium-228	0.766	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-R	0	0.5	Technetium-99	0.301	U	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-R	0	0.5	Thorium-228	0.739	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-R	0	0.5	Thorium-232	0.766	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^1-TU	0	0.5	Uranium, Total	4.94	UNV	mg/kg dry
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-L	0.5	1	Tetrachloroethene	2.1	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-MP	0.5	1	Antimony	0.82	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-MP	0.5	1	Arsenic	3.9	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-MP	0.5	1	Beryllium	0.39	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-MP	0.5	1	Lead	6.7	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-MP	0.5	1	Molybdenum	1.2	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-MP	0.5	1	Aroclor-1254	3.9	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-MP	0.5	1	Aroclor-1260	3.9	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-R	0.5	1	Radium-226	0.828	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-R	0.5	1	Radium-228	0.766	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-R	0.5	1	Technetium-99	0.307	U	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-R	0.5	1	Thorium-228	0.772	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-R	0.5	1	Thorium-232	0.766	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^2-TU	0.5	1	Uranium, Total	4.81	UNV	mg/kg dry
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-L	1	1.5	Tetrachloroethene	2.3	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-MP	1	1.5	Antimony	0.78	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-MP	1	1.5	Arsenic	4.7	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-MP	1	1.5	Beryllium	0.53	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-MP	1	1.5	Lead	9.8	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-MP	1	1.5	Molybdenum	1.1	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-MP	1	1.5	Aroclor-1254	3.9	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-MP	1	1.5	Aroclor-1260	3.9	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-R	1	1.5	Radium-226	0.917	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-R	1	1.5	Radium-228	0.847	-	pCi/g

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TABLE C-1. PRECERTIFICATION PHYSICAL SAMPLE DATA

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-R	1	1.5	Technetium-99	0.198	U	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-R	1	1.5	Thorium-228	0.862	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-R	1	1.5	Thorium-232	0.847	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^3-TU	1	1.5	Uranium, Total	5.42	NV	mg/kg dry
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-L	1.5	2	Tetrachloroethene	2.1	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-MP	1.5	2	Antimony	0.76	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-MP	1.5	2	Arsenic	6.5	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-MP	1.5	2	Beryllium	0.66	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-MP	1.5	2	Lead	13.6	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-MP	1.5	2	Molybdenum	1.6	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-MP	1.5	2	Aroclor-1254	3.9	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-MP	1.5	2	Aroclor-1260	3.9	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-R	1.5	2	Radium-226	0.964	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-R	1.5	2	Radium-228	1.16	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-R	1.5	2	Technetium-99	0.329	U	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-R	1.5	2	Thorium-228	1.16	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-R	1.5	2	Thorium-232	1.16	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^4-TU	1.5	2	Uranium, Total	4.95	UNV	mg/kg dry
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-L	2	2.5	Tetrachloroethene	2.4	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-MP	2	2.5	Antimony	0.8	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-MP	2	2.5	Arsenic	8.3	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-MP	2	2.5	Beryllium	1.1	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-MP	2	2.5	Lead	16.1	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-MP	2	2.5	Molybdenum	1.8	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-MP	2	2.5	Aroclor-1254	4.1	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-MP	2	2.5	Aroclor-1260	4.1	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-R	2	2.5	Radium-226	0.889	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-R	2	2.5	Radium-228	1.21	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-R	2	2.5	Technetium-99	0.318	U	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-R	2	2.5	Thorium-228	1.22	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-R	2	2.5	Thorium-232	1.21	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^5-TU	2	2.5	Uranium, Total	4.81	UNV	mg/kg dry
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-L	2.5	3	Tetrachloroethene	2.5	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-MP	2.5	3	Antimony	0.75	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-MP	2.5	3	Arsenic	15.7	NV	mg/kg

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TABLE C-1. PRECERTIFICATION PHYSICAL SAMPLE DATA

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-MP	2.5	3	Beryllium	0.97	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-MP	2.5	3	Lead	11.2	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-MP	2.5	3	Molybdenum	2.1	NV	mg/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-MP	2.5	3	Aroclor-1254	4.3	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-MP	2.5	3	Aroclor-1260	4.3	UNV	ug/kg
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-R	2.5	3	Radium-226	0.99	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-R	2.5	3	Radium-228	1.21	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-R	2.5	3	Technetium-99	0.285	U	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-R	2.5	3	Thorium-228	1.23	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-R	2.5	3	Thorium-232	1.21	-	pCi/g
A9P2-PC3	2/25/2003	480145.614	1351863.222	A9P2-PC3^6-TU	2.5	3	Uranium, Total	4.96	UNV	mg/kg dry
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-L	0	0.5	Tetrachloroethene	2.4	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-MP	0	0.5	Antimony	0.48	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-MP	0	0.5	Arsenic	6.8	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-MP	0	0.5	Beryllium	0.48	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-MP	0	0.5	Lead	14.7	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-MP	0	0.5	Molybdenum	1.7	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-MP	0	0.5	Aroclor-1254	4.3	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-MP	0	0.5	Aroclor-1260	4.3	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-R	0	0.5	Radium-226	0.88	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-R	0	0.5	Radium-228	0.957	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-R	0	0.5	Technetium-99	0.34	U	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-R	0	0.5	Thorium-228	0.952	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-R	0	0.5	Thorium-232	0.957	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^1-TU	0	0.5	Uranium, Total	10.7	NV	mg/kg dry
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-L	0.5	1	Tetrachloroethene	2.1	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-MP	0.5	1	Antimony	0.34	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-MP	0.5	1	Arsenic	8.7	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-MP	0.5	1	Beryllium	0.34	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-MP	0.5	1	Lead	15.2	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-MP	0.5	1	Molybdenum	1.7	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-MP	0.5	1	Aroclor-1254	4.1	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-MP	0.5	1	Aroclor-1260	4.1	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-R	0.5	1	Radium-226	0.902	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-R	0.5	1	Radium-228	0.924	-	pCi/g

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TABLE C-1. PRECERTIFICATION PHYSICAL SAMPLE DATA

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-R	0.5	1	Technetium-99	0.304	U	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-R	0.5	1	Thorium-228	1.05	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-R	0.5	1	Thorium-232	0.924	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^2-TU	0.5	1	Uranium, Total	7.35	NV	mg/kg dry
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-L	1	1.5	Tetrachloroethene	2.3	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-MP	1	1.5	Antimony	0.71	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-MP	1	1.5	Arsenic	12.9	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-MP	1	1.5	Beryllium	0.52	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-MP	1	1.5	Lead	15.3	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-MP	1	1.5	Molybdenum	2.1	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-MP	1	1.5	Aroclor-1254	4.2	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-MP	1	1.5	Aroclor-1260	4.2	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-R	1	1.5	Radium-226	0.966	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-R	1	1.5	Radium-228	1.04	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-R	1	1.5	Technetium-99	0.298	U	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-R	1	1.5	Thorium-228	1.12	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-R	1	1.5	Thorium-232	1.04	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^3-TU	1	1.5	Uranium, Total	4.77	UNV	mg/kg dry
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-L	1.5	2	Tetrachloroethene	2	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-MP	1.5	2	Antimony	1.1	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-MP	1.5	2	Arsenic	14.4	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-MP	1.5	2	Beryllium	0.93	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-MP	1.5	2	Lead	14.5	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-MP	1.5	2	Molybdenum	2	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-MP	1.5	2	Aroclor-1254	4.1	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-MP	1.5	2	Aroclor-1260	4.1	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-R	1.5	2	Radium-226	0.966	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-R	1.5	2	Radium-228	1.14	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-R	1.5	2	Technetium-99	0.336	U	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-R	1.5	2	Thorium-228	1.14	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-R	1.5	2	Thorium-232	1.14	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^4-TU	1.5	2	Uranium, Total	5	UNV	mg/kg dry
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-L	2	2.5	Tetrachloroethene	2.2	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-MP	2	2.5	Antimony	0.68	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-MP	2	2.5	Arsenic	12.2	NV	mg/kg

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TABLE C-1. PRECERTIFICATION PHYSICAL SAMPLE DATA

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-MP	2	2.5	Beryllium	1.4	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-MP	2	2.5	Lead	17	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-MP	2	2.5	Molybdenum	2.3	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-MP	2	2.5	Aroclor-1254	4.1	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-MP	2	2.5	Aroclor-1260	4.1	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-R	2	2.5	Radium-226	1.01	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-R	2	2.5	Radium-228	1.16	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-R	2	2.5	Technetium-99	0.282	U	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-R	2	2.5	Thorium-228	1.16	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-R	2	2.5	Thorium-232	1.16	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^5-TU	2	2.5	Uranium, Total	4.99	UNV	mg/kg dry
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-L	2.5	3	Tetrachloroethene	2.1	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-MP	2.5	3	Antimony	0.79	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-MP	2.5	3	Arsenic	11.2	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-MP	2.5	3	Beryllium	1.2	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-MP	2.5	3	Lead	13.8	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-MP	2.5	3	Molybdenum	1.4	NV	mg/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-MP	2.5	3	Aroclor-1254	4.1	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-MP	2.5	3	Aroclor-1260	4.1	UNV	ug/kg
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-R	2.5	3	Radium-226	1.01	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-R	2.5	3	Radium-228	1.17	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-R	2.5	3	Technetium-99	0.31	U	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-R	2.5	3	Thorium-228	1.19	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-R	2.5	3	Thorium-232	1.17	-	pCi/g
A9P2-PC4	2/25/2003	479648.264	1351923.877	A9P2-PC4^6-TU	2.5	3	Uranium, Total	4.96	UNV	mg/kg dry
A9P2-PC5	2/27/2003	480640.287	1351957.734	A9P2-PC5^1-TU	0	0.5	Uranium, Total	4.9	UNV	mg/kg dry
A9P2-PC7	2/27/2003	480529.565	1351837.013	A9P2-PC7^1-TU	0	0.5	Uranium, Total	4.96	UNV	mg/kg dry
A9P2-PC8	2/27/2003	480780.02	1351841.702	A9P2-PC8^1-TU	0	0.5	Uranium, Total	33	NV	mg/kg dry

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TABLE C-2. TOXICITY EQUIVALENT FACTOR (TEF) CALCULATION USING THE MAXIMUM DIOXIN/FURAN RESULT FROM ENTIRE DATA SET

Boring	Parameter	Lab Res (mg/kg)	Lab Qual	Concentration (pg/g)	TEF	Adjusted Conc (pg/g) ND @ 1/2
A9P2-C2-5	2,3,7,8-TCDD	0.000000743	U	0.3715	1	0.3715
A9P2-C2-5	1,2,3,7,8-PeCDD	0.00000186	U	0.93	0.5	0.465
A9P2-C2-5	1,2,3,4,7,8-HxCDD	0.00000186	U	0.93	0.1	0.093
A9P2-S3	1,2,3,6,7,8-HxCDD	0.000000277	J	0.277	0.1	0.0277
A9P2-C7-8	1,2,3,7,8,9-HxCDD	0.00000102	J	1.02	0.1	0.102
A9P2-C7-8	1,2,3,4,6,7,8-HpCDD	0.00000993		9.93	0.01	0.0993
A9P2-S1	OCDD	0.000321		321	0.001	0.321
A9P2-S4	2,3,7,8-TCDF	0.000000625	J	0.625	0.1	0.0625
A9P2-S4	1,2,3,7,8-PeCDF	0.000000234	J	0.234	0.05	0.0117
A9P2-C4-8	2,3,4,7,8-PeCDF	0.000000294	J	0.294	0.5	0.147
A9P2-S4	1,2,3,4,7,8-HxCDF	0.0000012	J	1.2	0.1	0.12
A9P2-S1	1,2,3,6,7,8-HxCDF	0.000000164	J	0.164	0.1	0.0164
A9P2-C2-5	1,2,3,7,8,9-HxCDF	0.00000186	U	0.93	0.1	0.093
A9P2-C2-5	2,3,4,6,7,8-HxCDF	0.00000186	U	0.93	0.1	0.093
A9P2-C7-8	1,2,3,4,6,7,8-HpCDF	0.00000545		5.45	0.01	0.0545
A9P2-C2-5	1,2,3,4,7,8,9-HpCDF	0.000000413	J	0.413	0.01	0.00413
A9P2-C6-10	OCDF	0.00000791		7.91	0.001	0.00791

TOTAL	**2.08964**	pg/g (ppt)
or		
TOTAL	**0.00209**	ppb

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TABLE C-3. DIOXIN DATA FROM SAMPLES COLLECTED WITHIN A9PII EAST OF A1PII

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0000011	NV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000495	NV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000193	UNV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000193	UNV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000193	UNV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzofuran	0.000000164	NV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000193	UNV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000193	UNV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000038	NV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzofuran	0.00000193	UNV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000193	UNV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000193	UNV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	2,3,4,7,8-Pentachlorodibenzofuran	0.00000193	UNV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzofuran	0.000000772	UNV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000772	UNV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	Octachlorodibenzofuran	0.00000206	NV	mg/kg
A9P2-S1	2/24/2003	480723.31	1352181.6	A9P2-S1^1-DF	0	0.5	Octachlorodibenzo-p-dioxin	0.000321	NV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000197	NV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000296	NV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000169	UNV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000169	UNV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000169	UNV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000169	UNV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000169	UNV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000169	UNV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000169	UNV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzofuran	0.000000151	NV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000169	UNV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000169	UNV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	2,3,4,7,8-Pentachlorodibenzofuran	0.000000262	NV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzofuran	0.000000674	UNV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000674	UNV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	Octachlorodibenzofuran	0.00000178	NV	mg/kg
A9P2-S2	2/24/2003	480657.88	1352352.83	A9P2-S2^1-DF	0	0.5	Octachlorodibenzo-p-dioxin	0.0000175	NV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000162	NV	mg/kg

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TABLE C-3. DIOXIN DATA FROM SAMPLES COLLECTED WITHIN A9PII EAST OF A1PII

A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0000024	NV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.000000217	NV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzofuran	0.000000431	NV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000158	UNV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000158	UNV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.000000277	NV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000158	UNV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000158	UNV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzofuran	0.00000158	UNV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000158	UNV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000158	UNV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	2,3,4,7,8-Pentachlorodibenzofuran	0.00000158	UNV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzofuran	0.00000063	UNV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.00000063	UNV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	Octachlorodibenzofuran	0.00000158	NV	mg/kg
A9P2-S3	2/24/2003	480567.34	1352188.26	A9P2-S3^1-DF	0	0.5	Octachlorodibenzo-p-dioxin	0.0000143	NV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000337	NV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000653	NV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000181	UNV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0000012	NV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000181	UNV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000181	UNV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000181	UNV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000181	UNV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.000000692	NV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzofuran	0.000000234	NV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000181	UNV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000181	UNV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	2,3,4,7,8-Pentachlorodibenzofuran	0.00000181	UNV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzofuran	0.000000625	NV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000724	UNV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	Octachlorodibenzofuran	0.00000372	NV	mg/kg
A9P2-S4	2/24/2003	480548.91	1352348.16	A9P2-S4^1-DF	0	0.5	Octachlorodibenzo-p-dioxin	0.0000378	NV	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000485	-	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000598	-	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.000000413	J	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000186	U	mg/kg

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TABLE C-3. DIOXIN DATA FROM SAMPLES COLLECTED WITHIN A9PII EAST OF A1PII

A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000186	U	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000186	U	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000186	U	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000186	U	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000186	U	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzofuran	0.00000186	U	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000186	U	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000186	U	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	2,3,4,7,8-Pentachlorodibenzofuran	0.00000186	U	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzofuran	0.000000743	U	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000743	U	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	Octachlorodibenzofuran	0.00000729	-	mg/kg
A9P2-C2-5	3/19/2003	480539.59	1352258.94	A9P2-C2-5^1-DF	0	0.5	Octachlorodibenzo-p-dioxin	0.0000331	-	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.000003	-	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000367	-	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000169	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000169	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000169	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000169	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000169	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000169	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000169	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzofuran	0.00000169	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000169	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000169	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	2,3,4,7,8-Pentachlorodibenzofuran	0.00000169	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzofuran	0.000000676	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000676	U	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	Octachlorodibenzofuran	0.00000486	-	mg/kg
A9P2-C2-10	3/20/2003	480646.93	1352194.83	A9P2-C2-10^1-DF	0	0.5	Octachlorodibenzo-p-dioxin	0.0000297	-	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000115	J	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000163	-	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000156	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000156	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000156	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000156	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000156	U	mg/kg

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TABLE C-3. DIOXIN DATA FROM SAMPLES COLLECTED WITHIN A9PII EAST OF A1PII

A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000156	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000156	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000156	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000156	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000156	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000156	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.000000623	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000623	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	Octachlorodibenzofuran	0.00000194	U	mg/kg
A9P2-C3-2	3/28/2003	480529.77	1351888.95	A9P2-C3-2^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.0000437	-	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000277	-	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000346	-	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.00000146	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000585	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	Octachlorodibenzofuran	0.00000224	U	mg/kg
A9P2-C3-13	3/28/2003	480713.08	1351892.42	A9P2-C3-13^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.0000435	-	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000185	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000183	-	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.000000399	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.000000581	J	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000153	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000153	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000153	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000153	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000153	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000153	U	mg/kg

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TABLE C-3. DIOXIN DATA FROM SAMPLES COLLECTED WITHIN A9PII EAST OF A1PII

A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000153	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000153	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.000000294	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.000000613	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000613	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	Octachlorodibenzofuran	0.00000556	U	mg/kg
A9P2-C4-8	3/31/2003	480451.8	1352005.12	A9P2-C4-8^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.000014	-	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.000000606	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000606	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	Octachlorodibenzofuran	0.00000303	U	mg/kg
A9P2-C4-14	3/31/2003	480756.28	1352079.36	A9P2-C4-14^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.000027	-	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000159	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000159	U	mg/kg

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TABLE C-3. DIOXIN DATA FROM SAMPLES COLLECTED WITHIN A9PII EAST OF A1PII

A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.000000635	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000635	U	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	Octachlorodibenzofuran	0.000000488	J	mg/kg
A9P2-C5-8	4/1/2003	480171.92	1352014.96	A9P2-C5-8^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.00000439	-	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000223	-	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000261	-	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.00000148	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000594	U	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	Octachlorodibenzofuran	0.00000317	-	mg/kg
A9P2-C5-9	4/1/2003	480223.04	1351870.81	A9P2-C5-9^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.0000428	-	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000191	-	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000138	J	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.000000632	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000632	U	mg/kg
A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	Octachlorodibenzofuran	0.00000211	J	mg/kg

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TABLE C-3. DIOXIN DATA FROM SAMPLES COLLECTED WITHIN A9PII EAST OF A1PII

A9P2-C6-6	3/21/2003	479784.92	1352001.83	A9P2-C6-6^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.00000698	-	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000341	-	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000251	-	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.000000146	J	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.000000631	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000631	U	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	Octachlorodibenzofuran	0.00000791	-	mg/kg
A9P2-C6-10	3/21/2003	479909.86	1351908.21	A9P2-C6-10^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.0000166	-	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000217	-	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000481	-	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000152	U	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000152	U	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000152	U	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000152	U	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.000000442	J	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000152	U	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.000000481	J	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000152	U	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000152	U	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000151	J	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000152	U	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.000000607	U	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000607	U	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	Octachlorodibenzofuran	0.00000447	-	mg/kg
A9P2-C7-1	3/24/2003	479536.13	1351855.61	A9P2-C7-1^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.0000287	-	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000545	-	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000993	-	mg/kg

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TABLE C-3. DIOXIN DATA FROM SAMPLES COLLECTED WITHIN A9PII EAST OF A1PII

A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000161	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000161	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000102	J	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000161	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.000000642	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000642	U	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	Octachlorodibenzofuran	0.00000747	-	mg/kg
A9P2-C7-8	3/24/2003	479600.16	1352032.87	A9P2-C7-8^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.000245	-	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.000000918	J	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000155	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.00000062	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.00000062	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	Octachlorodibenzofuran	0.00000401	U	mg/kg
A9P2-C8-4	3/25/2003	479805.97	1352143.12	A9P2-C8-4^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.0000142	-	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000153	U	mg/kg

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TABLE C-3. DIOXIN DATA FROM SAMPLES COLLECTED WITHIN A9PII EAST OF A1PII

A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000153	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.000000612	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000612	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	Octachlorodibenzofuran	0.000000522	U	mg/kg
A9P2-C8-13	3/25/2003	480053.08	1352046.4	A9P2-C8-13^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.00000254	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000151	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.000000605	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000605	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	Octachlorodibenzofuran	0.00000303	U	mg/kg
A9P2-C9-6	3/26/2003	480089.39	1352224.58	A9P2-C9-6^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.00000303	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.000000534	J	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000154	U	mg/kg

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TABLE C-3. DIOXIN DATA FROM SAMPLES COLLECTED WITHIN A9PII EAST OF A1PII

A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.00000154	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000615	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	Octachlorodibenzofuran	0.00000308	U	mg/kg
A9P2-C9-11	3/26/2003	480312.16	1352054.39	A9P2-C9-11^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.00000261	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.00000132	J	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000183	-	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000161	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000161	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000161	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000161	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000161	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.000000645	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000645	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	Octachlorodibenzofuran	0.00000201	U	mg/kg
A9P2-C10-5	3/27/2003	480330.81	1352205.18	A9P2-C10-5^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.0000103	-	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.000000985	J	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.00000158	U	mg/kg

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TABLE C-3. DIOXIN DATA FROM SAMPLES COLLECTED WITHIN A9PII EAST OF A1PII

A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	2,3,4,7,8-Pentachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	2,3,7,8-tetrachlorodibenzofuran	0.00000158	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.000000631	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	Octachlorodibenzofuran	0.00000135	U	mg/kg
A9P2-C10-10	3/27/2003	480445.58	1352174.83	A9P2-C10-10^2-DF	0	1	Octachlorodibenzo-p-dioxin	0.000007	U	mg/kg

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FIGURE C-1. DIOXIN SAMPLE LOCATIONS WITH A9PII EAST OF A1PII

APPENDIX D

HOT SPOT DELINEATION AND REMOVAL

TABLE D-1. PHYSICAL SAMPLE DATA HOT SPOT DELINEATION

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-PC6	2/27/2003	480279.435	1351834.147	A9P2-PC6^1-TU	0	.5	Uranium, Total	137	NV	mg/kg dry
A9P2-PC6	3/5/2003	480279.435	1351834.147	A9P2-PC6^2-TU	.5	1	Uranium, Total	30.5	NV	mg/kg dry
A9P2-PC6	3/5/2003	480279.435	1351834.147	A9P2-PC6^7-TU	3	3.5	Uranium, Total	4.79	UNV	mg/kg dry
A9P2-PC9	3/5/2003	480284.408	1351833.967	A9P2-PC9^1-TU	0	.5	Uranium, Total	69.5	NV	mg/kg dry
A9P2-PC9	3/5/2003	480284.408	1351833.967	A9P2-PC9^7-TU	3	3.5	Uranium, Total	4.05	UNV	mg/kg dry
A9P2-PC10	3/5/2003	480279.259	1351839.114	A9P2-PC10^1-TU	0	.5	Uranium, Total	28.8	NV	mg/kg dry
A9P2-PC10	3/5/2003	480279.259	1351839.114	A9P2-PC10^7-TU	3	3.5	Uranium, Total	4.68	UNV	mg/kg dry
A9P2-PC11	3/5/2003	480274.331	1351833.984	A9P2-PC11^1-TU	0	.5	Uranium, Total	4.54	UNV	mg/kg dry
A9P2-PC11	3/12/2003	480274.331	1351833.984	A9P2-PC11^13-TU	6	6.5	Uranium, Total	1.18	NV	mg/kg dry
A9P2-PC11	3/5/2003	480274.331	1351833.984	A9P2-PC11^7-TU	3	3.5	Uranium, Total	52.3	NV	mg/kg dry
A9P2-PC11	3/12/2003	480274.331	1351833.984	A9P2-PC11^8-TU	3.5	4	Uranium, Total	2.02	NV	mg/kg dry
A9P2-PC12	3/6/2003	480279.142	1351837.894	A9P2-PC12^1-TU	0	.5	Uranium, Total	37.7	NV	mg/kg dry
A9P2-PC12	3/6/2003	480279.142	1351837.894	A9P2-PC12^7-TU	3	3.5	Uranium, Total	4.72	UNV	mg/kg dry
A9P2-PC13	3/12/2003	480269.36	1351833.99	A9P2-PC13^1-TU	0	.5	Uranium, Total	51.9	NV	mg/kg dry
A9P2-PC13	3/12/2003	480269.36	1351833.99	A9P2-PC13^7-TU	3	3.5	Uranium, Total	1.93	NV	mg/kg dry
A9P2-PC14	3/12/2003	480288.658	1351834.421	A9P2-PC14^1-TU	0	.5	Uranium, Total	44.6	NV	mg/kg dry
A9P2-PC14	3/12/2003	480288.658	1351834.421	A9P2-PC14^7-TU	3	3.5	Uranium, Total	3.79	NV	mg/kg dry

NV = Not validated
UNV = Non detect, not validated
mg/kg = milligrams per kilogram

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TABLE D-2.
HOT SPOT DELINEATION HPGe RESULTS
DETECTOR HEIGHT OF 15 CM

Location	Date	Northing	Easting	Det. Height	Total U ppm
A9P2-HS-42-G	3/17/2003	480279	1351834	15cm	59.1
A9P2-HS-43-G	3/17/2003	480276	1351834	15cm	35.1
A9P2-HS-44-G	3/17/2003	480279	1351837	15cm	49.7
A9P2-HS-45-G	3/17/2003	480282	1351834	15cm	54.7
A9P2-HS-46-G	3/17/2003	480279	1351830	15cm	28.2
A9P2-HS-46-D-G	3/17/2003	480279	1351830	15cm	28.8
A9P2-HS-47-G	3/17/2003	480282	1351838	15cm	53.3
A9P2-HS-48-G	3/17/2003	480285	1351834	15cm	49.1
A9P2-HS-49-G	3/17/2003	480285	1351837	15cm	51.8
A9P2-HS-50-G	3/17/2003	480282	1351840	15cm	39.1
A9P2-HS-51-G	3/17/2003	480288	1351838	15cm	49.4
A9P2-HS-52-G	3/17/2003	480285	1351840	15cm	37.1
A9P2-HS-53-G	3/17/2003	480262	1351834	15cm	21.8
A9P2-HS-54-G	3/17/2003	480268	1351837	15cm	33.7

cm = centimeter
ppm = parts per million

TABLE D-3. PHYSICAL SAMPLE DATA FOLLOWING HOT SPOT REMOVAL

Location ID	Sample Date	Northing	Easting	Sample ID	Top Depth	Bottom Depth	Parameter	Result	Qual	Units
A9P2-EXD1	4/8/2003	480276.08	1351837.408	A9P2-EXD1-TU			Uranium, Total	8.57	NV	mg/kg dry
A9P2-EXD2	4/8/2003	480271.523	1351837.28	A9P2-EXD2-TU			Uranium, Total	7.1	NV	mg/kg dry
A9P2-EXS1	4/8/2003	480284.786	1351836.968	A9P2-EXS1-TU			Uranium, Total	13	NV	mg/kg dry
A9P2-EXS2	4/8/2003	480266.653	1351836.895	A9P2-EXS2-TU			Uranium, Total	19.7	NV	mg/kg dry

NV = Not validated
mg/kg = milligram per kilogram

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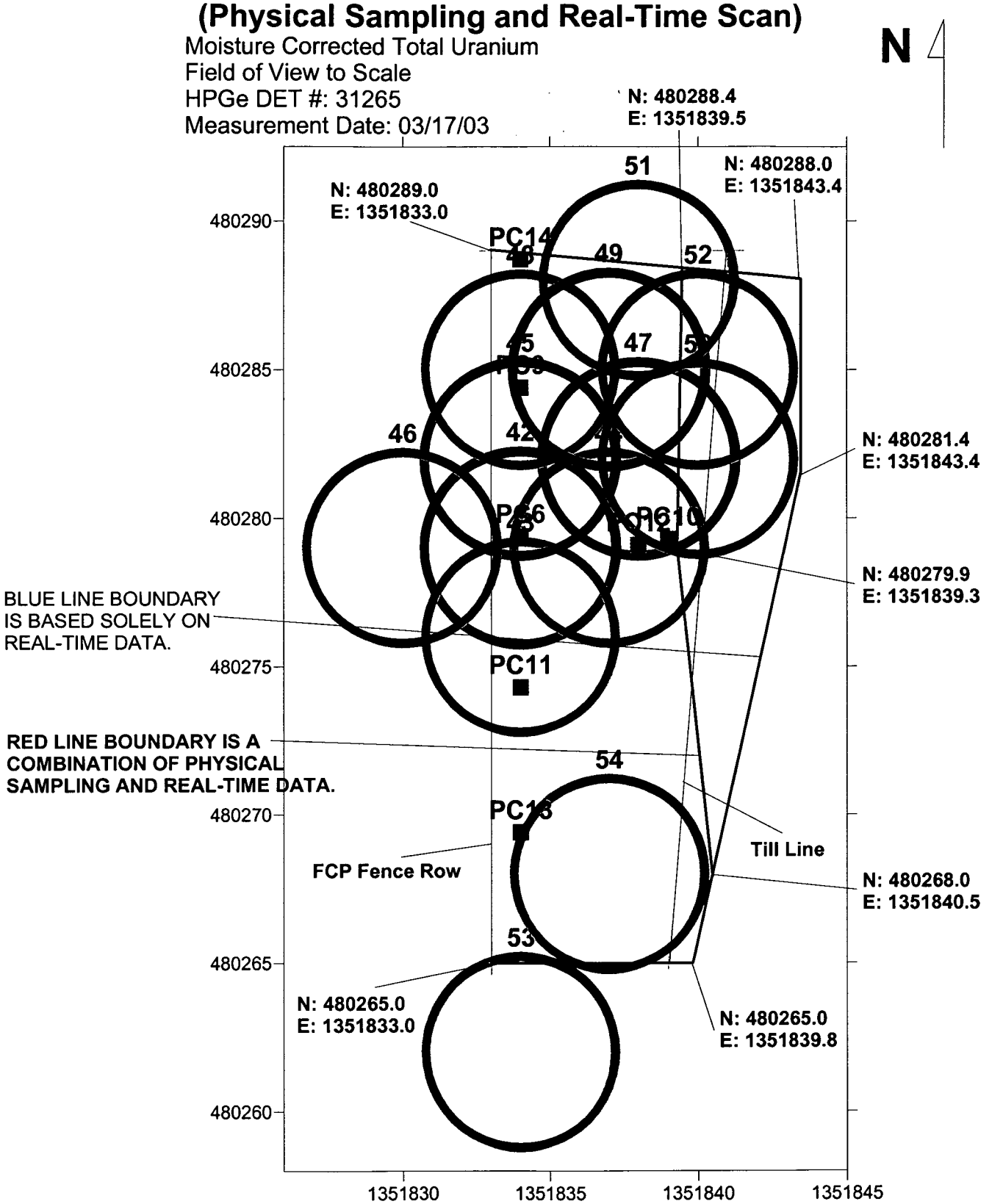
TABLE D-4.
PHASE 3 MEASUREMENT RESULTS FOLLOWING HOT SPOT REMOVAL
DETECTOR HEIGHT OF 15 CM

Location	Date	Northing	Easting	Det. Height	Total U ppm
A9P2-P3-68-G	4/8/2003	480287	1351840	15cm	32.9
A9P2-P3-69-G	4/8/2003	480287	1351837	15cm	39.6
A9P2-P3-70-G	4/8/2003	480284	1351838	15cm	34.1
A9P2-P3-70-D-G	4/8/2003	480284	1351838	15cm	32.3
A9P2-P3-71-G	4/8/2003	480282	1351839	15cm	35.9
A9P2-P3-72-G	4/8/2003	480282	1351836	15cm	47.9
A9P2-P3-73-G	4/8/2003	480266	1351839	15cm	23
A9P2-P3-74-G	4/8/2003	480266	1351834	15cm	31.9

cm = centimeter
ppm = parts per million

Figure D-1. A9P2 Hot Spot Delineation (Physical Sampling and Real-Time Scan)

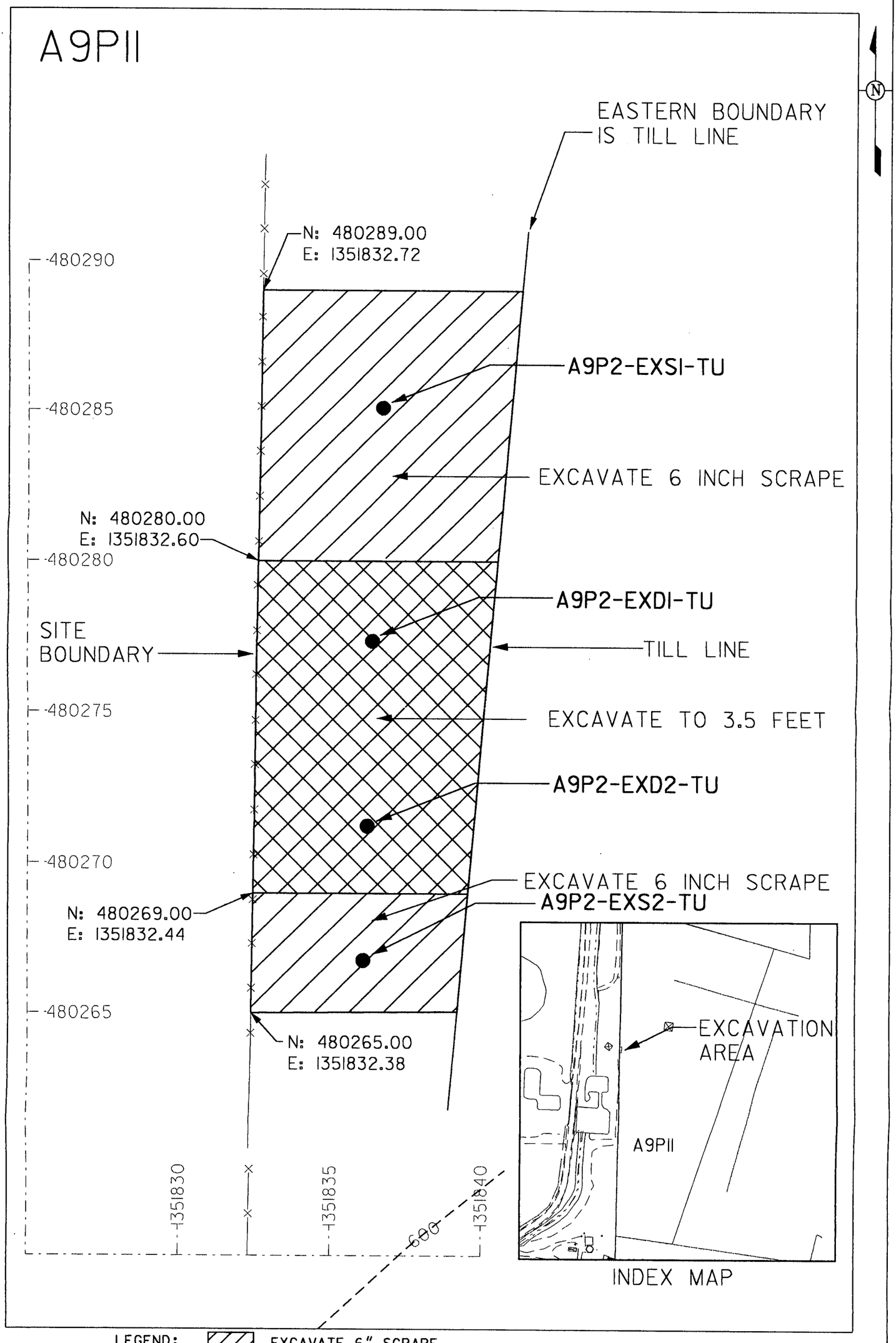
Moisture Corrected Total Uranium
Field of View to Scale
HPGe DET #: 31265
Measurement Date: 03/17/03



HPGe @ 15cm Total U (ppm)
0 to 50
50 to 100
100 to 928
928 to 9999

Physical Samples Total U (ppm)
0 to 50
50 to 9999

RTIMP DWG Title: A9P2_FENCE_EXC_ZOOM.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 03/19/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2_HS_HPGe_15cm.xls



LEGEND:
- EXCAVATE 6" SCRAPE
- EXCAVATE 3.5' SCRAPE
- PAST EXCAVATION SAMPLE LOCATION

SCALE: 4 2 0 4 FEET

DRAFT

FIGURE D-2. A9PII HOT SPOT EXCAVATION BOUNDARIES, DEPTH, AND POST EXCAVATION SAMPLE LOCATIONS

STATE PLANAR COORDINATE SYSTEM 1983

02-OCT-2003

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Figure D-3. A9P2 Phase 3 Measurements Following Hot Spot Removal

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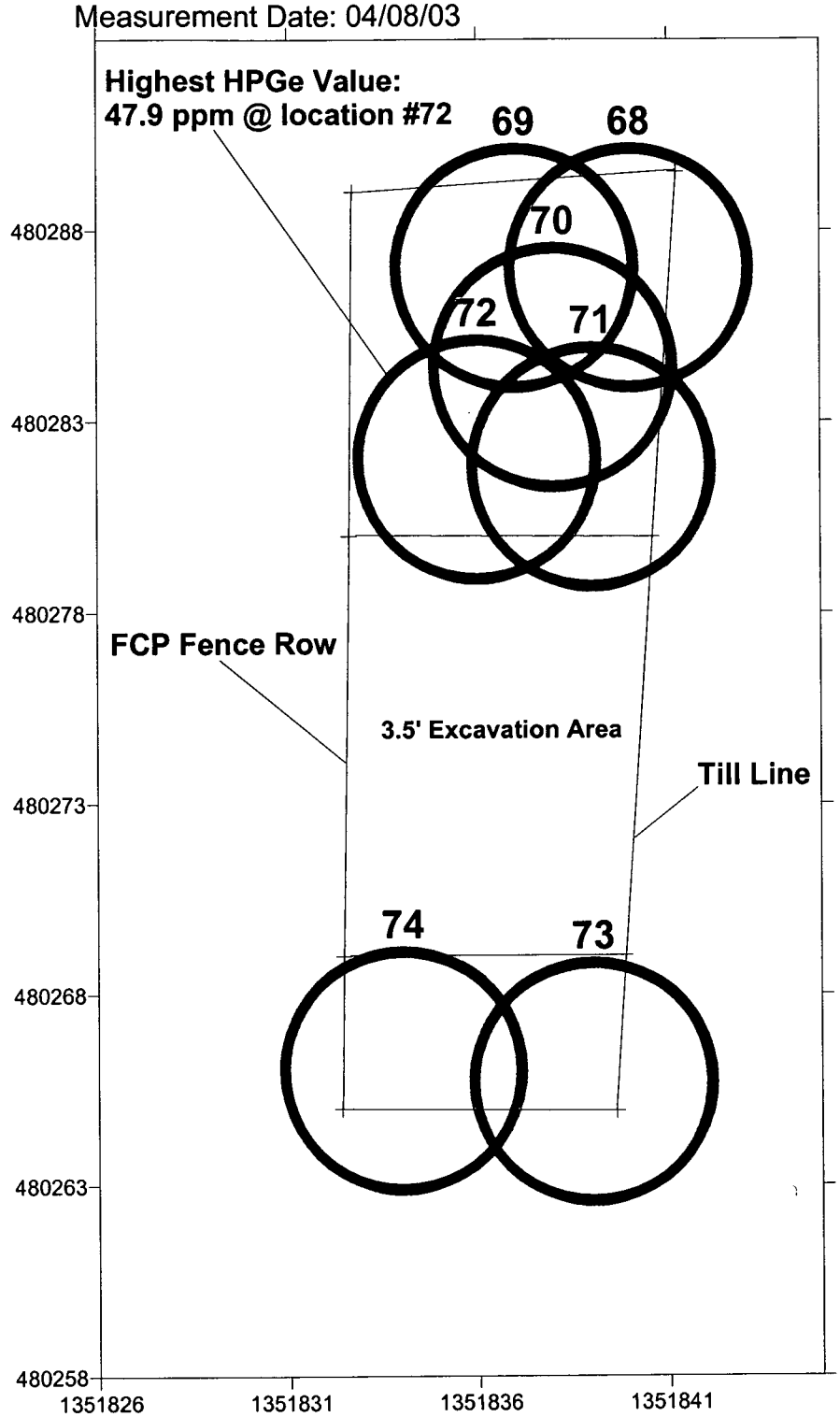
Moisture Corrected Total Uranium
Field of View to Scale
HPGe DET #: 30687
Measurement Date: 04/08/03



HPGe @ 15cm
Total U (ppm)
- 0 to 100
- 100 to 928
- 928 to 9999

RTIMP DWG Title: A9P2_P3_TU_ZOOM.srf
Project Name: A9P2 Precert
Project #: 21130-PSP-0001
Date Prepared: 04/11/03
Prepared By: Brian McDaniel/11058
Support Data: A9P2_P3_HPGe_15cm.xls

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