VARIANCE / FIELD CHANGE NOTICE	Significant? (Yes or No): YES	V/F: 21130-PSP-0001-1
WBS NO.: PROJECT/DOCUMENT/ECDC # 21130-PSP-0001 Rev.0		Page: 1 of 1
PROJECT TITLE: Project Specific Plan for Area 9, Phase II Precertification Real-Time Scan		Date: 2/13/03

VARIANCE / FIELD CHANGE NOTICE (Include justification):

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This Variance/Field Change Notice (V/FCN) documents the collection of physical samples in Area 9, Phase II (A9PII) located off-property east of the Fernald Closure Project.

Four (4) surface samples will be collected in the uncultivated, wooded portion of A9PII. The samples will be collected to a depth of 6-inches. These samples will be analyzed for total uranium (TAL B) at the onsite laboratory and submitted to an offsite laboratory for dioxin/furan (TAL G) analysis.

Four (4) borings will be collected in the cultivated portion of A9PII. The borings will be extended to a depth of 36-inches and samples will be collected at every 6-inch interval (0 to 6-inch, 6 to 12-inch, 12 to 18-inch, etc.). Samples will be submitted to the onsite laboratory for total uranium (TAL B) analysis. Samples will also be submitted to an offsite laboratory for radiological (TAL C), metals (TAL D), PCB (TAL E), and VOC (TAL F) analysis.

See Attachment 1 for the TALs and Attachment 2 for the Sampling and Analytical Requirements.

All samples collected under this V/FCN are identified on Attachment 3 and the locations are shown on Figure 1.

Samples submitted under this V/FCN will be analyzed to ASL B requirements. Trip blanks and rinsates are required. A minimum of 10 percent of the analytical data will be validated to VSL B.

INFORMATION ONLY

Justification:

Per section 3.4.8 of the SEP Addendum, subsurface soil sampling will be conducted to determine representative concentration profiles of COCs to atleast a 2-foot depth below the cultivated depth.

Physical samples will also be collected in the wooded portion of A9PII since weather has impacted the use of real-time monitoring equipment in this area. Physical sampling will not be used in place of real-time monitoring.

Per section 2.7 of the PSP, the collection of physical samples will be documented with a V/FCN.

REQUESTED BY: Denise Arico Date: 2/13/03

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE: Michael Walter	2/18/03	X	PROJECT MANAGER: J.D. Chiou	2/18/03
	DATA QUALITY MANAGEMENT:		X	CHARACTERIZATION MANAGER: F. Miller	2/18/03
X	ANALYTICAL CUSTOMER SUPPORT: Teresa Brandenburg for Heather Medley	2-20-03		RTIMP Manager	
X	WAO: Linda Barlow	2/24/03	X	Sampling Manager: T. Bulirlage	2/19/03

VARIANCE/FCN APPROVED [X]YES [ ]NO REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	CHARACTERIZATION MANAGER: Frank Miller	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

ORIGINAL

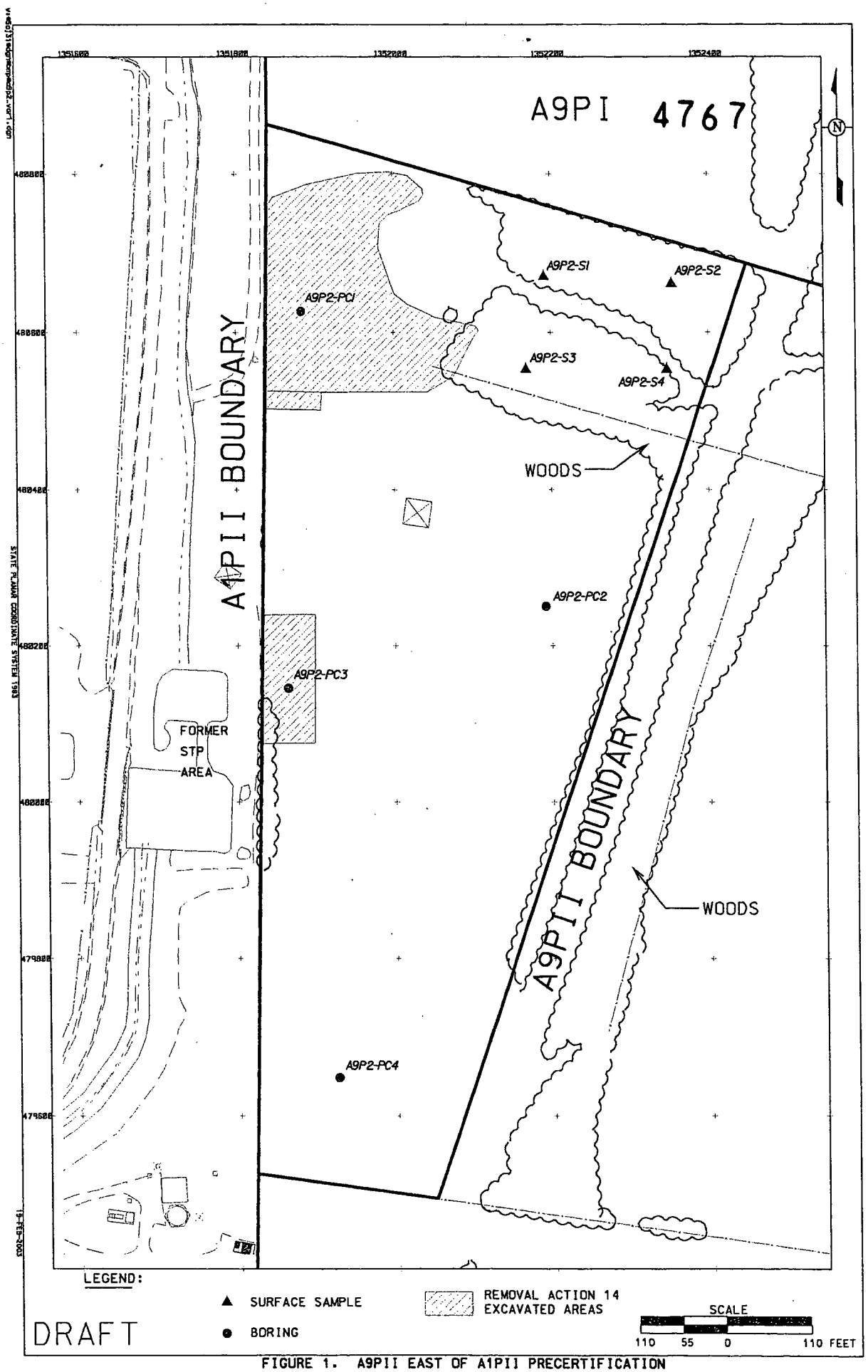

FIGURE 1. A9PII EAST OF A1PII PRECERTIFICATION
PHYSICAL SAMPLE LOCATIONS

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ATTACHMENT 1

TAL 21130-PSP-0001-B

Component	Off-Property FRL	Minimum Detection Limit
Total Uranium	50 mg/kg	5 mg/kg

TAL 21130-PSP-0001-C

Component	Off-Property FRL	Minimum Detection Limit
Radium-226	1.5 pCi/g	0.15 pCi/g
Radium-228	1.4 pCi/g	0.14 pCi/g
Thorium-228	1.5 pCi/g	0.15 pCi/g
Thorium-232	1.4 pCi/g	0.14 pCi/g
Technetium-99	1 pCi/g	0.5 pCi/g*

TAL 21130-PSP-0001-D

Component	Off-Property FRL	Minimum Detection Limit
Antimony	0.61 mg/kg	0.2 mg/kg*
Arsenic	9.6 mg/kg	0.96 mg/kg
Beryllium	0.62 mg/kg	0.062 mg/kg
Lead	200 mg/kg	20 mg/kg
Molybdenum	10 mg/kg	1 mg/kg

TAL 21130-PSP-0001-E

Component	Off-Property FRL	Minimum Detection Limit
Aroclor-1254	0.04 mg/kg	0.004 mg/kg
Aroclor-1260	0.04 mg/kg	0.004 mg/kg

TAL 21130-PSP-0001-F

Component	Off-Property FRL	Minimum Detection Limit
Tetrachloroethene	1 mg/kg	0.1 mg/kg

TAL 21130-PSP-0001-G

Component	Off-Property FRL	Minimum Detection Limit
Heptachlorodibenzofuran	0.00088 mg/kg	0.000088 mg/kg
Heptachlorodibenzo-p-dioxin	0.00088 mg/kg	0.000088 mg/kg
Octachlorodibenzofuran	0.0088 mg/kg	0.00088 mg/kg
Octachlorodibenzo-p-dioxin	0.0088 mg/kg	0.00088 mg/kg

*** 10 percent of the FRL is not achievable for this analyte**

SAMPLING AND ANALYTICAL REQUIREMENTS

Analyte (TAL)	Method	Sample Matrix	Lab	ASL	TAT	Preservation	Holding Time	Container**	Sample Volume/ Mass
Total Uranium (TAL B)	ICP/MS	Solid	Onsite	B	7 day	None	12 months	Plastic or stainless steel core liner or glass or polyethylene	50 g
Radiological (TAL C)	Gamma Spec, Liquid Scintillation	Solid	Offsite	B	30 day	None	12 months	Plastic or stainless steel core liner or glass or polyethylene	500 g
Metals (TAL D)	ICP or GFAA	Solid	Offsite	B	7 day	dmc 2/24/03 ~~None~~ Cool, 4C	6 months	Glass with teflon liner	50 g (150 g)***
PCBs (TAL E)	GC	Solid	Offsite	B	7 day	Cool, 4 C	14 days		
VOC (TAL F)	GC/MS	Solid	Offsite	B	7 day	Cool, 4 C	14 days	Glass with teflon liner	20 g (60 g)*** Fill to minimize headspace
Dioxins/Furans (TAL G)	GC or HPLC	Solid	Offsite	B	7 day	Cool, 4 C	14 days	Glass with teflon liner	30 g (90 g)***
Total Uranium (TAL B)	ICP/MS	Liquid	Onsite	B	7 day	HNO3 pH<2	6 months	Glass or polyethylene	1 liter
Radiological (TAL C)	Gamma Spec, Liquid Scintillation	Liquid	Offsite	B	30 day	HNO3 pH<2	6 months	Glass or polyethylene	4 liter
Metals (TAL D)	ICP or GFAA	Liquid	Offsite	B	7 day	HNO3 pH<2	6 months	Polyethylene	1 liter
PCBs (TAL E)	GC	Liquid	Offsite	B	7 day	Cool, 4 C	7 days	Amber glass with teflon liner	3 liters
VOC (TAL F)	GC/MS	Liquid	Offsite	B	7 day	H2SO4 pH<2, Cool, 4 C	14 days	3-40 ml Glass with teflon-lined septa	120 ml Fill to zero headspace
Dioxins/Furans (TAL G)	GC or HPLC	Liquid	Offsite	B	7 day	Cool, 4 C	7 days	Amber glass with teflon liner	3 liters

** Sample container types may be changed at the direction of the Field Sampling Lead, as long as the volume requirements, container compatibility requirements, and SCQ requirements are met.

*** At the direction of the Field Sampling Lead, triple the specified volume must be collected in order for the contract laboratory to perform the required quality control analyses. This is necessary for every 20 samples collected of like analyses. The samples shall be identified on the Chain of Custody/Request for Analysis forms as "designated for laboratory QC".

ATTACHMENT 3
PRECERTIFICATION PHYSICAL SAMPLE LOCATIONS AND IDENTIFIERS

Boring ID	Depth	Sample ID	Analysis	Northing	Easting
A9P2-S1	0" - 6"	A9P2-S1^1-TU	TAL B	480670.41	1352192.38
	0" - 6"	A9P2-S1^1-DF	TAL G		
A9P2-S2	0" - 6"	A9P2-S2^1-TU	TAL B	480660.44	1352354.11
	0" - 6"	A9P2-S2^1-DF	TAL G		
A9P2-S3	0" - 6"	A9P2-S3^1-TU	TAL B	480552.77	1352168.56
	0" - 6"	A9P2-S3^1-DF	TAL G		
A9P2-S4	0" - 6"	A9P2-S4^1-TU	TAL B	480552.59	1352347.53
	0" - 6"	A9P2-S4^1-DF	TAL G		
A9P2-PC1	0" - 6"	A9P2-PC1^1-TU	TAL B	480626.07	1351882.83
	0" - 6"	A9P2-PC1^1-R	TAL C		
	0" - 6"	A9P2-PC1^1-MP	TAL D, E		
	0" - 6"	A9P2-PC1^1-L	TAL F		
	6" - 12"	A9P2-PC1^2-TU	TAL B		
	6" - 12"	A9P2-PC1^2-R	TAL C		
	6" - 12"	A9P2-PC1^2-MP	TAL D, E		
	6" - 12"	A9P2-PC1^2-L	TAL F		
	12" - 18"	A9P2-PC1^3-TU	TAL B		
	12" - 18"	A9P2-PC1^3-R	TAL C		
	12" - 18"	A9P2-PC1^3-MP	TAL D, E		
	12" - 18"	A9P2-PC1^3-L	TAL F		
	18" - 24"	A9P2-PC1^4-TU	TAL B		
	18" - 24"	A9P2-PC1^4-R	TAL C		
	18" - 24"	A9P2-PC1^4-MP	TAL D, E		
	18" - 24"	A9P2-PC1^4-L	TAL F		
	24" - 30"	A9P2-PC1^5-TU	TAL B		
	24" - 30"	A9P2-PC1^5-R	TAL C		
	24" - 30"	A9P2-PC1^5-MP	TAL D, E		
	24" - 30"	A9P2-PC1^5-L	TAL F		
	30" - 36"	A9P2-PC1^6-TU	TAL B		
	30" - 36"	A9P2-PC1^6-R	TAL C		
	30" - 36"	A9P2-PC1^6-MP	TAL D, E		
	30" - 36"	A9P2-PC1^6-L	TAL F		

ATTACHMENT 3
PRECERTIFICATION PHYSICAL SAMPLE LOCATIONS AND IDENTIFIERS

Boring ID	Depth	Sample ID	Analysis	Northing	Easting
A9P2-PC2	0" - 6"	A9P2-PC2^1-TU	TAL B	480250.59	1352192.02
	0" - 6"	A9P2-PC2^1-R	TAL C		
	0" - 6"	A9P2-PC2^1-MP	TAL D, E		
	0" - 6"	A9P2-PC2^1-L	TAL F		
	6" - 12"	A9P2-PC2^2-TU	TAL B		
	6" - 12"	A9P2-PC2^2-R	TAL C		
	6" - 12"	A9P2-PC2^2-MP	TAL D, E		
	6" - 12"	A9P2-PC2^2-L	TAL F		
	12" - 18"	A9P2-PC2^3-TU	TAL B		
	12" - 18"	A9P2-PC2^3-R	TAL C		
	12" - 18"	A9P2-PC2^3-MP	TAL D, E		
	12" - 18"	A9P2-PC2^3-L	TAL F		
	18" - 24"	A9P2-PC2^4-TU	TAL B		
	18" - 24"	A9P2-PC2^4-R	TAL C		
	18" - 24"	A9P2-PC2^4-MP	TAL D, E		
	18" - 24"	A9P2-PC2^4-L	TAL F		
	24" - 30"	A9P2-PC2^5-TU	TAL B		
	24" - 30"	A9P2-PC2^5-R	TAL C		
	24" - 30"	A9P2-PC2^5-MP	TAL D, E		
	24" - 30"	A9P2-PC2^5-L	TAL F		
	30" - 36"	A9P2-PC2^6-TU	TAL B		
	30" - 36"	A9P2-PC2^6-R	TAL C		
	30" - 36"	A9P2-PC2^6-MP	TAL D, E		
	30" - 36"	A9P2-PC2^6-L	TAL F		
A9P2-PC3	0" - 6"	A9P2-PC3^1-TU	TAL B	480145.48	1351863.10
	0" - 6"	A9P2-PC3^1-R	TAL C		
	0" - 6"	A9P2-PC3^1-MP	TAL D, E		
	0" - 6"	A9P2-PC3^1-L	TAL F		
	6" - 12"	A9P2-PC3^2-TU	TAL B		
	6" - 12"	A9P2-PC3^2-R	TAL C		
	6" - 12"	A9P2-PC3^2-MP	TAL D, E		
	6" - 12"	A9P2-PC3^2-L	TAL F		
	12" - 18"	A9P2-PC3^3-TU	TAL B		
	12" - 18"	A9P2-PC3^3-R	TAL C		
	12" - 18"	A9P2-PC3^3-MP	TAL D, E		
	12" - 18"	A9P2-PC3^3-L	TAL F		
	18" - 24"	A9P2-PC3^4-TU	TAL B		
	18" - 24"	A9P2-PC3^4-R	TAL C		
	18" - 24"	A9P2-PC3^4-MP	TAL D, E		
	18" - 24"	A9P2-PC3^4-L	TAL F		
	24" - 30"	A9P2-PC3^5-TU	TAL B		
	24" - 30"	A9P2-PC3^5-R	TAL C		
	24" - 30"	A9P2-PC3^5-MP	TAL D, E		
	24" - 30"	A9P2-PC3^5-L	TAL F		
	30" - 36"	A9P2-PC3^6-TU	TAL B		
	30" - 36"	A9P2-PC3^6-R	TAL C		
	30" - 36"	A9P2-PC3^6-MP	TAL D, E		
	30" - 36"	A9P2-PC3^6-L	TAL F		

ATTACHMENT 3
PRECERTIFICATION PHYSICAL SAMPLE LOCATIONS AND IDENTIFIERS

Boring ID	Depth	Sample ID	Analysis	Northing	Easting
A9P2-PC4	0" - 6"	A9P2-PC4^1-TU	TAL B	479648.26	1351923.76
	0" - 6"	A9P2-PC4^1-R	TAL C		
	0" - 6"	A9P2-PC4^1-MP	TAL D, E		
	0" - 6"	A9P2-PC4^1-L	TAL F		
	6" - 12"	A9P2-PC4^2-TU	TAL B		
	6" - 12"	A9P2-PC4^2-R	TAL C		
	6" - 12"	A9P2-PC4^2-MP	TAL D, E		
	6" - 12"	A9P2-PC4^2-L	TAL F		
	12" - 18"	A9P2-PC4^3-TU	TAL B		
	12" - 18"	A9P2-PC4^3-R	TAL C		
	12" - 18"	A9P2-PC4^3-MP	TAL D, E		
	12" - 18"	A9P2-PC4^3-L	TAL F		
	18" - 24"	A9P2-PC4^4-TU	TAL B		
	18" - 24"	A9P2-PC4^4-R	TAL C		
	18" - 24"	A9P2-PC4^4-MP	TAL D, E		
	18" - 24"	A9P2-PC4^4-L	TAL F		
	24" - 30"	A9P2-PC4^5-TU	TAL B		
	24" - 30"	A9P2-PC4^5-R	TAL C		
	24" - 30"	A9P2-PC4^5-MP	TAL D, E		
	24" - 30"	A9P2-PC4^5-L	TAL F		
	30" - 36"	A9P2-PC4^6-TU	TAL B		
	30" - 36"	A9P2-PC4^6-R	TAL C		
	30" - 36"	A9P2-PC4^6-MP	TAL D, E		
	30" - 36"	A9P2-PC4^6-L	TAL F		

VARIANCE/FIELD CHANGE NOTICE LOG FOR THE PROJECT SPECIFIC PLAN FOR AREA 9, PHASE II PRECERTIFICATION REAL-TIME SCAN

Variance No.	Variance Date	Variance Description	Significant? (Y or N)	Date Signed	Date Distributed	EPA/OEPA Approval
21130-PSP-0001-01	2/12/03	Documents the collection of physical sampling in A9PII located east of the FCP.	Y	2/24/03	2/25/03	Y

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