Department of Energy

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JUL 28 2003

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V, SR-6J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0443-03

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

Dear Mr. Saric and Mr. Schneider:

EVALUATION OF DIOXINS IN AREA 9, PHASE II

In response to an Ohio Environmental Protection Agency (OEPA) request during their review of the draft Certification Design Letter (CDL) submitted in January 2003 concerning the potential impacts from dioxins surrounding the former incinerator at the former Sewage Treatment Plant (STP) near the Fernald Closure Project (FCP) property line, dioxins were investigated in Area 9, Phase II (A9PII). Dioxins are formed from the combustion of organic materials in the presence of chlorine. They commonly exist at varying levels in the environment from anthropogenic sources such as household burning and industrial processes. During the Remedial Investigation/Feasibility Study (RI/FS), only four dioxins and furans, heptachlorodibenzofuran (HpCDF), heptachlorodibenzo-p-dioxin (HpCDD), octachlorodibenzofuran (OCDF), and octachlorodibenzo-p-dioxin (OCDD) were detected. Therefore, both on-property Final Remediation Levels (FRL) [880 parts per trillion (ppt) for HpCDD and HpCDF, 8,800 ppt for OCDD and OCDF] and off-property FRLs (50 ppt for HpCDD and HpCDF, 10 ppt for OCDD and OCDF) were developed for only these four congeners of dioxins/furans. To date, no on-site soil remedial action has been conducted due to dioxins nor were they identified as area-specific constituents of concern in the draft A9PII CDL according to Sitewide Excavation Plan guidelines.

Due to the fact that A9PII is mostly a cultivated field, which has been continually plowed over the years and partially excavated in 1992 for remediation, the likelihood of encountering elevated levels of dioxin from aerial deposition is minimal. However, the

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northeast corner of A9PII is an unplowed, unexcavated, wooded area that lies within the normal downwind patterns. This area was chosen to investigate dioxins to verify whether or not they were present at levels above the listed off-property FRL and/or background conditions.

In late February 2003, the wooded area was divided into four quadrants and one sample location was chosen within each quadrant (Figure 1). The four samples were analyzed for the complete list of dioxins and furans. All four locations have OCDD above the listed off-property FRL of 10 ppt with results ranging from 14.3 ppt to 321 ppt (Table 1). The rest of the three compounds with FRLs and certain others had detects but were negligible.

To resolve whether or not these levels are consistent with background concentrations, DOE requested the United States Environmental Protection Agency (USEPA) and OEPA approval to further evaluate background conditions. Since the Addendum to the Comprehensive Environmental Response, Compensation, and Liability Act/Resource Conservation and Recovery Act (CERCLA/RCRA) Background Soil Study did not address organic constituents, several samples were collected from the southwestern portion of the Fernald Closure Project (FCP) in mid-March 2003 to establish background conditions. This area was chosen over the upwind northwestern areas to avoid potential impacts from historical site operations. Three locations were chosen in undisturbed areas of Area 8 Phase I, Area 8 Phase III South, and Area 2 Phase III (Figure 2). One location was sampled from each of these areas and analyzed for the complete list of dioxins and furans. The results demonstrate that off-site FRL levels of OCDD are exceeded in all of these background samples at concentrations ranging from 16.4 ppt to 744 ppt (Table 2).

During the same approximate time frame, late March 2003, approval was granted to sample at-risk throughout A9PII to gain a better understanding of the entire area, instead of relying only on one small wooded portion of the area. In each of the approved Certification Units (CU) in the draft A9PII CDL, two random locations were sampled for the complete list of dioxins and furans (Figure 3). Once again, the results demonstrated that only OCDD was present at levels above the listed off-property FRL, with results ranging from 2.61 ppt to 245 ppt (Table 3).

While researching the development of the OCDD FRL as part of the evaluation of sampling results of dioxins in A9PII, it was determined that an unreasonable cancer slope factor was used to calculate the off-property FRL for OCDD and OCDF. The cancer slope factor listed in the June 1995 Operable Unit 5 (OU5) Feasibility Study (FS) (Appendix C, Table C.4-2) for OCDD and OCDF is 1.5×10^3. However, 2,3,7,8-tetrachlorodibenzo-p-dioxin is the compound that is the most toxic and is used as the basis for all of the dioxins and furans cancer slope factor determinations. To calculate the slope factors for the other congeners of dioxins and furans, Toxicity Equivalence Factors (TEF) as described in Appendix C of

the OU5 FS, Section C.4.4 should be used in conjunction with the TCDD slope factor. According to the July 1997 update on the United States Environmental Protection Agency (USEPA) Health Effects Assessment Summary Tables (HEAST), the cancer slope factor for 2,3,7,8-TCDD is $1.5x10^5$. The North Atlantic Treaty Organization (NATO) lists the TEF for OCDD/OCDF as 0.001 and the World Health Organization (WHO) lists the TEF for OCDD/OCDF as 0.0001. Using these TEFs for OCDD/OCDF, the adjusted cancer slope factor becomes either $1.5x10^2$ or $1.5x10^1$, which are one to two orders of magnitude lower than the previously used cancer slope factor for OCDD and OCDF. Since the calculated FRL is inversely proportional to the cancer slope factor (as cancer risk increases, FRL decreases and vice versa), the off-site FRLs for OCDD/OCDF (10 ppt) become 100 ppt (NATO) or 1,000 ppt (WHO). Thus, the current listed off-property FRL is one to two orders of magnitude too low. When comparing the OCDD results from A9PII to these corrected values, only 2 out of the 22 samples collected are greater than 100 ppt and none are greater than 1,000 ppt.

As a separate approach, the current accepted protocol for evaluating the risks of dioxins and furans is to determine the concentration of each individual congener, multiply each concentration by the appropriate TEF, sum the corrected concentrations, and compare the correct total contribution of all dioxin and furan congeners to an established limit of 1 part per billion (ppb). EPA confirmed in March 2003 that this approach is standard practice. This evaluation was performed for the samples collected in A9PII in a manner that exhibits worst-case scenario. The highest value of any individual congener across all A9PII samples was taken as the uncorrected concentration for each respective congener. The appropriate TEF was applied to each congener and the corrected values were summed (Table 4). The NATO TEF for OCDD was used to ensure that the worst-case scenario was evaluated. The total equaled 0.974 ppt when counting the non-detected values as zero or 2.09 ppt when conservatively counting the non-detects at one half of the reported detection limit, both of which are significantly less than the current limit of 1,000 ppt (1 ppb) and the proposed federal limit of 100 ppt (0.1 ppb) that is still under review. After evaluating both of the approaches detailed above, it is concluded that the OCDD concentrations in A9PII are likely within background conditions and within the acceptable risk level per EPA Guidelines. Moreover, certification cannot be completed for OCDD using an off-property FRL that is well within the background range. Therefore, DOE proposes to drop dioxins and furans from any further evaluation for A9PII. With your concurrence, the CDL will reference this letter and the basis of the decision to exclude dioxins and furans from any further sampling, analysis, and evaluation in A9PII.

If you have any questions or need further information, please contact Johnny Reising at (513) 648-3139.

Sincerely,

Glenn Griffiths

FCP:R.J. Janke

Glenn Griffiths
Acting Director

Enclosure: As Stated

cc w/enclosure:
R. Janke, OH/FCP
T. Schneider, OEPA-Dayton (three copies of enclosure)
G. Jablonowski, USEPA-V, SR-6J
F. Bell, ATSDR
M. Cullerton, Tetra Tech
M. Shupe, HSI GeoTrans
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AR Coordinator, MS78

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R. Abitz, Fluor Fernald, Inc./MS64
D. Carr, Fluor Fernald, Inc./MS1
J. Chiou, Fluor Fernald, Inc./MS64
M. Frank, Fluor Fernald, Inc./MS64
T. Hagen, Fluor Fernald, Inc./MS1
G. Lupton, Fluor Fernald, Inc./MS64
F. Miller, Fluor Fernald, Inc./MS64
T. Poff, Fluor Fernald, Inc./MS65-2
D. Powell, Fluor Fernald, Inc./MS64
ECDC, Fluor Fernald, Inc./52-7

Table 1
Precertification Sample Results from Wooded Area of A9PII

SAMPLE_ID	Sample Date	Parameter	Val Res	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-S1^1-DF	2/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.10E-06	mg/kg	1.10	ppt	NV	50	ppt
A9P2-S2^1-DF	2/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.97E-06	mg/kg	1.97	ppt	NV	50	ppt
A9P2-S3^1-DF	2/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.62E-06	mg/kg	1.62	ppt	NV	50	ppt
A9P2-S4^1-DF	2/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	3.37E-06	mg/kg	3.37	ppt	NV	50	ppt
A9P2-S1^1-DF	2/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	4.95E-06	mg/kg	4.95	ppt	NV	50	ppt
A9P2-S2^1-DF	2/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.96E-06	mg/kg	2.96	ppt	NV	50	ppt
A9P2-S3^1-DF	2/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.40E-06	mg/kg	2.40	ppt	NV	50	ppt
A9P2-S4^1-DF	2/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	6.53E-06	mg/kg	6.53	ppt	NV	50	ppt
A9P2-S1^1-DF	2/24/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.93E-06	mg/kg	1.93	ppt	NV	50	ppt
A9P2-S2^1-DF	2/24/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	NV	50	ppt
A9P2-S3^1-DF	2/24/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.17E-07	mg/kg	0.217	ppt	NV	50	ppt
A9P2-S4^1-DF	2/24/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.81E-06	mg/kg	1.81	ppt	NV	50	ppt
A9P2-S1^1-DF	2/24/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.93E-06	mg/kg	1.93	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	4.31E-07	mg/kg	0.431	ppt	NV	--	--
A9P2-S4^1-DF	2/24/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.20E-06	mg/kg	1.20	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.93E-06	mg/kg	1.93	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.69E-06	mg/kg	1.69	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	NV	--	--
A9P2-S4^1-DF	2/24/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.81E-06	mg/kg	1.81	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.64E-07	mg/kg	0.164	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	NV	--	--
A9P2-S4^1-DF	2/24/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.81E-06	mg/kg	1.81	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.93E-06	mg/kg	1.93	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.69E-06	mg/kg	1.69	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.77E-07	mg/kg	0.277	ppt	NV	--	--
A9P2-S4^1-DF	2/24/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.81E-06	mg/kg	1.81	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.93E-06	mg/kg	1.93	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	NV	--	--
A9P2-S4^1-DF	2/24/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.81E-06	mg/kg	1.81	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	3.80E-07	mg/kg	0.380	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.69E-06	mg/kg	1.69	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	NV	--	--

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Table 1
Precertification Sample Results from Wooded Area of A9PII

SAMPLE_ID	Sample Date	Parameter	Val Res	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-S4^1-DF	2/24/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	6.92E-07	mg/kg	0.692	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.93E-06	mg/kg	1.93	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.51E-07	mg/kg	0.151	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	NV	--	--
A9P2-S4^1-DF	2/24/2003	1,2,3,7,8-Pentachlorodibenzofuran	2.34E-07	mg/kg	0.234	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.93E-06	mg/kg	1.93	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.69E-06	mg/kg	1.69	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	NV	--	--
A9P2-S4^1-DF	2/24/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.81E-06	mg/kg	1.81	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.93E-06	mg/kg	1.93	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	NV	--	--
A9P2-S4^1-DF	2/24/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.81E-06	mg/kg	1.81	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.93E-06	mg/kg	1.93	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	2,3,4,7,8-Pentachlorodibenzofuran	2.62E-07	mg/kg	0.262	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	NV	--	--
A9P2-S4^1-DF	2/24/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.81E-06	mg/kg	1.81	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	2,3,7,8-tetrachlorodibenzofuran	7.72E-07	mg/kg	0.772	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	2,3,7,8-tetrachlorodibenzofuran	6.74E-07	mg/kg	0.674	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	2,3,7,8-tetrachlorodibenzofuran	6.30E-07	mg/kg	0.630	ppt	NV	--	--
A9P2-S4^1-DF	2/24/2003	2,3,7,8-tetrachlorodibenzofuran	6.25E-07	mg/kg	0.625	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	7.72E-07	mg/kg	0.772	ppt	NV	--	--
A9P2-S2^1-DF	2/24/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.74E-07	mg/kg	0.674	ppt	NV	--	--
A9P2-S3^1-DF	2/24/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.30E-07	mg/kg	0.630	ppt	NV	--	--
A9P2-S4^1-DF	2/24/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	7.24E-07	mg/kg	0.724	ppt	NV	--	--
A9P2-S1^1-DF	2/24/2003	Octachlorodibenzofuran	2.06E-06	mg/kg	2.06	ppt	NV	10	ppt
A9P2-S2^1-DF	2/24/2003	Octachlorodibenzofuran	1.78E-06	mg/kg	1.78	ppt	NV	10	ppt
A9P2-S3^1-DF	2/24/2003	Octachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	NV	10	ppt
A9P2-S4^1-DF	2/24/2003	Octachlorodibenzofuran	3.72E-06	mg/kg	3.72	ppt	NV	10	ppt
A9P2-S1^1-DF	2/24/2003	Octachlorodibenzo-p-dioxin	3.21E-04	mg/kg	321	ppt	NV	10	ppt
A9P2-S2^1-DF	2/24/2003	Octachlorodibenzo-p-dioxin	1.75E-05	mg/kg	17.5	ppt	NV	10	ppt
A9P2-S3^1-DF	2/24/2003	Octachlorodibenzo-p-dioxin	1.43E-05	mg/kg	14.3	ppt	NV	10	ppt
A9P2-S4^1-DF	2/24/2003	Octachlorodibenzo-p-dioxin	3.78E-05	mg/kg	37.8	ppt	NV	10	ppt

Table 2
Background Sample Results from A8PI, A8PIIIS, and A2PIII

SAMPLE_ID	Sample Date	Parameter	Val Result	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-BS4^1-DF	3/18/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.42E-06	mg/kg	1.42	ppt	J	50	ppt
A9P2-BS5^1-DF	3/18/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	8.81E-06	mg/kg	8.81	ppt	-	50	ppt
A9P2-BS6^1-DF	3/18/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.15E-06	mg/kg	1.15	ppt	U	50	ppt
A9P2-BS4^1-DF	3/18/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.45E-06	mg/kg	2.45	ppt	-	50	ppt
A9P2-BS5^1-DF	3/18/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.90E-05	mg/kg	19.0	ppt	-	50	ppt
A9P2-BS6^1-DF	3/18/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	4.72E-06	mg/kg	4.72	ppt	-	50	ppt
A9P2-BS4^1-DF	3/18/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.66E-07	mg/kg	0.266	ppt	J	50	ppt
A9P2-BS5^1-DF	3/18/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.97E-06	mg/kg	1.97	ppt	U	50	ppt
A9P2-BS6^1-DF	3/18/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	50	ppt
A9P2-BS4^1-DF	3/18/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	3.19E-06	mg/kg	3.19	ppt	-	--	--
A9P2-BS6^1-DF	3/18/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-BS4^1-DF	3/18/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	5.94E-07	mg/kg	0.594	ppt	J	--	--
A9P2-BS6^1-DF	3/18/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.02E-07	mg/kg	0.102	ppt	J	--	--
A9P2-BS4^1-DF	3/18/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	3.21E-06	mg/kg	3.21	ppt	-	--	--
A9P2-BS6^1-DF	3/18/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-BS4^1-DF	3/18/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.39E-06	mg/kg	1.39	ppt	J	--	--
A9P2-BS6^1-DF	3/18/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.89E-07	mg/kg	0.289	ppt	J	--	--
A9P2-BS4^1-DF	3/18/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.97E-06	mg/kg	1.97	ppt	U	--	--
A9P2-BS6^1-DF	3/18/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-BS4^1-DF	3/18/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.48E-06	mg/kg	1.48	ppt	J	--	--
A9P2-BS6^1-DF	3/18/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	3.49E-07	mg/kg	0.349	ppt	J	--	--
A9P2-BS4^1-DF	3/18/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	1,2,3,7,8-Pentachlorodibenzofuran	7.40E-07	mg/kg	0.740	ppt	J	--	--
A9P2-BS6^1-DF	3/18/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-BS4^1-DF	3/18/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.97E-06	mg/kg	1.97	ppt	U	--	--
A9P2-BS6^1-DF	3/18/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.40E-07	mg/kg	0.140	ppt	J	--	--
A9P2-BS4^1-DF	3/18/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	2.49E-06	mg/kg	2.49	ppt	-	--	--
A9P2-BS6^1-DF	3/18/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-BS4^1-DF	3/18/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	J	--	--
A9P2-BS6^1-DF	3/18/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-BS4^1-DF	3/18/2003	2,3,7,8-tetrachlorodibenzofuran	6.04E-07	mg/kg	0.604	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	2,3,7,8-tetrachlorodibenzofuran	2.61E-06	mg/kg	2.61	ppt	-	--	--
A9P2-BS6^1-DF	3/18/2003	2,3,7,8-tetrachlorodibenzofuran	5.93E-07	mg/kg	0.593	ppt	U	--	--
A9P2-BS4^1-DF	3/18/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.04E-07	mg/kg	0.604	ppt	U	--	--
A9P2-BS5^1-DF	3/18/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	7.89E-07	mg/kg	0.789	ppt	U	--	--
A9P2-BS6^1-DF	3/18/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	5.93E-07	mg/kg	0.593	ppt	U	--	--
A9P2-BS4^1-DF	3/18/2003	Octachlorodibenzofuran	2.43E-06	mg/kg	2.43	ppt	J	10	ppt
A9P2-BS5^1-DF	3/18/2003	Octachlorodibenzofuran	8.10E-06	mg/kg	8.10	ppt	-	10	ppt
A9P2-BS6^1-DF	3/18/2003	Octachlorodibenzofuran	2.54E-06	mg/kg	2.54	ppt	J	10	ppt
A9P2-BS4^1-DF	3/18/2003	Octachlorodibenzo-p-dioxin	1.64E-05	mg/kg	16.4	ppt	-	10	ppt
A9P2-BS5^1-DF	3/18/2003	Octachlorodibenzo-p-dioxin	7.44E-04	mg/kg	744	ppt	-	10	ppt
A9P2-BS6^1-DF	3/18/2003	Octachlorodibenzo-p-dioxin	1.75E-04	mg/kg	175	ppt	-	10	ppt

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Table 3
CU Sample Results Across A9PII

SAMPLE_ID	Sample Date	Parameter	Val Result	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-C10-10^2-DF	3/27/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	9.85E-07	mg/kg	0.985	ppt	J	50	ppt
A9P2-C10-5^2-DF	3/27/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.32E-06	mg/kg	1.32	ppt	J	50	ppt
A9P2-C2-10^1-DF	3/20/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	3.00E-06	mg/kg	3.00	ppt	-	50	ppt
A9P2-C2-5^1-DF	3/19/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	4.85E-06	mg/kg	4.85	ppt	-	50	ppt
A9P2-C3-13^2-DF	3/28/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.77E-06	mg/kg	2.77	ppt	-	50	ppt
A9P2-C3-2^2-DF	3/28/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.15E-06	mg/kg	1.15	ppt	J	50	ppt
A9P2-C4-14^2-DF	3/31/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	50	ppt
A9P2-C4-8^2-DF	3/31/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.85E-06	mg/kg	1.85	ppt	U	50	ppt
A9P2-C5-8^2-DF	4/1/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.59E-06	mg/kg	1.59	ppt	U	50	ppt
A9P2-C5-9^2-DF	4/1/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.23E-06	mg/kg	2.23	ppt	-	50	ppt
A9P2-C6-10^2-DF	3/21/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	3.41E-06	mg/kg	3.41	ppt	-	50	ppt
A9P2-C6-6^2-DF	3/21/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.91E-06	mg/kg	1.91	ppt	-	50	ppt
A9P2-C7-1^2-DF	3/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.17E-06	mg/kg	2.17	ppt	-	50	ppt
A9P2-C7-8^2-DF	3/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	5.45E-06	mg/kg	5.45	ppt	-	50	ppt
A9P2-C8-13^2-DF	3/25/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	50	ppt
A9P2-C8-4^2-DF	3/25/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.55E-06	mg/kg	1.55	ppt	U	50	ppt
A9P2-C9-11^2-DF	3/26/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.54E-06	mg/kg	1.54	ppt	U	50	ppt
A9P2-C9-6^2-DF	3/26/2003	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	50	ppt
A9P2-C10-10^2-DF	3/27/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	50	ppt
A9P2-C10-5^2-DF	3/27/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.83E-06	mg/kg	1.83	ppt	-	50	ppt
A9P2-C2-10^1-DF	3/20/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	3.67E-06	mg/kg	3.67	ppt	-	50	ppt
A9P2-C2-5^1-DF	3/19/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	5.98E-06	mg/kg	5.98	ppt	-	50	ppt
A9P2-C3-13^2-DF	3/28/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	3.46E-06	mg/kg	3.46	ppt	-	50	ppt
A9P2-C3-2^2-DF	3/28/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.63E-06	mg/kg	1.63	ppt	-	50	ppt
A9P2-C4-14^2-DF	3/31/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	50	ppt
A9P2-C4-8^2-DF	3/31/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.83E-06	mg/kg	1.83	ppt	-	50	ppt
A9P2-C5-8^2-DF	4/1/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.59E-06	mg/kg	1.59	ppt	U	50	ppt
A9P2-C5-9^2-DF	4/1/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.61E-06	mg/kg	2.61	ppt	-	50	ppt
A9P2-C6-10^2-DF	3/21/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.51E-06	mg/kg	2.51	ppt	-	50	ppt
A9P2-C6-6^2-DF	3/21/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.38E-06	mg/kg	1.38	ppt	J	50	ppt
A9P2-C7-1^2-DF	3/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	4.81E-06	mg/kg	4.81	ppt	-	50	ppt
A9P2-C7-8^2-DF	3/24/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	9.93E-06	mg/kg	9.93	ppt	-	50	ppt
A9P2-C8-13^2-DF	3/25/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.53E-06	mg/kg	1.53	ppt	U	50	ppt
A9P2-C8-4^2-DF	3/25/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	9.18E-07	mg/kg	0.918	ppt	J	50	ppt
A9P2-C9-11^2-DF	3/26/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	5.34E-07	mg/kg	0.534	ppt	J	50	ppt
A9P2-C9-6^2-DF	3/26/2003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	50	ppt
A9P2-C10-10^2-DF	3/27/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	50	ppt

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Table 3
CU Sample Results Across A9PII

SAMPLE_ID	Sample Date	Parameter	Val Result	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-C10-5^2-DF	3/27/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	50	ppt
A9P2-C2-10^1-DF	3/20/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	U	50	ppt
A9P2-C2-5^1-DF	3/19/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	4.13E-07	mg/kg	0.413	ppt	J	50	ppt
A9P2-C3-13^2-DF	3/28/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.46E-06	mg/kg	1.46	ppt	U	50	ppt
A9P2-C3-2^2-DF	3/28/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.56E-06	mg/kg	1.56	ppt	U	50	ppt
A9P2-C4-14^2-DF	3/31/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	50	ppt
A9P2-C4-8^2-DF	3/31/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	3.99E-07	mg/kg	0.399	ppt	U	50	ppt
A9P2-C5-8^2-DF	4/1/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.59E-06	mg/kg	1.59	ppt	U	50	ppt
A9P2-C5-9^2-DF	4/1/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	50	ppt
A9P2-C6-10^2-DF	3/21/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	50	ppt
A9P2-C6-6^2-DF	3/21/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	50	ppt
A9P2-C7-1^2-DF	3/24/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.52E-06	mg/kg	1.52	ppt	U	50	ppt
A9P2-C7-8^2-DF	3/24/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	50	ppt
A9P2-C8-13^2-DF	3/25/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	50	ppt
A9P2-C8-4^2-DF	3/25/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.55E-06	mg/kg	1.55	ppt	U	50	ppt
A9P2-C9-11^2-DF	3/26/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.54E-06	mg/kg	1.54	ppt	U	50	ppt
A9P2-C9-6^2-DF	3/26/2003	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	50	ppt
A9P2-C10-10^2-DF	3/27/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C2-10^1-DF	3/20/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	U	--	--
A9P2-C2-5^1-DF	3/19/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.86E-06	mg/kg	1.86	ppt	U	--	--
A9P2-C3-13^2-DF	3/28/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.46E-06	mg/kg	1.46	ppt	U	--	--
A9P2-C3-2^2-DF	3/28/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.56E-06	mg/kg	1.56	ppt	U	--	--
A9P2-C4-14^2-DF	3/31/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C4-8^2-DF	3/31/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	5.81E-07	mg/kg	0.581	ppt	J	--	--
A9P2-C5-8^2-DF	4/1/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.59E-06	mg/kg	1.59	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C6-6^2-DF	3/21/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.52E-06	mg/kg	1.52	ppt	U	--	--
A9P2-C7-8^2-DF	3/24/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C8-13^2-DF	3/25/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.55E-06	mg/kg	1.55	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.54E-06	mg/kg	1.54	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	1,2,3,4,7,8-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.61E-06	mg/kg	1.61	ppt	U	--	--

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Table 3
CU Sample Results Across A9PII

SAMPLE_ID	Sample Date	Parameter	Val Result	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-C2-10^1-DF	3/20/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.69E-06	mg/kg	1.69	ppt	U	--	--
A9P2-C2-5^1-DF	3/19/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.86E-06	mg/kg	1.86	ppt	U	--	--
A9P2-C3-13^2-DF	3/28/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.46E-06	mg/kg	1.46	ppt	U	--	--
A9P2-C3-2^2-DF	3/28/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.56E-06	mg/kg	1.56	ppt	U	--	--
A9P2-C4-14^2-DF	3/31/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C4-8^2-DF	3/31/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C5-8^2-DF	4/1/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.59E-06	mg/kg	1.59	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C6-6^2-DF	3/21/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.52E-06	mg/kg	1.52	ppt	U	--	--
A9P2-C7-8^2-DF	3/24/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C8-13^2-DF	3/25/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.55E-06	mg/kg	1.55	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.54E-06	mg/kg	1.54	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C2-10^1-DF	3/20/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	U	--	--
A9P2-C2-5^1-DF	3/19/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.86E-06	mg/kg	1.86	ppt	U	--	--
A9P2-C3-13^2-DF	3/28/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.46E-06	mg/kg	1.46	ppt	U	--	--
A9P2-C3-2^2-DF	3/28/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.56E-06	mg/kg	1.56	ppt	U	--	--
A9P2-C4-14^2-DF	3/31/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C4-8^2-DF	3/31/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C5-8^2-DF	4/1/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.59E-06	mg/kg	1.59	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C6-6^2-DF	3/21/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.52E-06	mg/kg	1.52	ppt	U	--	--
A9P2-C7-8^2-DF	3/24/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C8-13^2-DF	3/25/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.55E-06	mg/kg	1.55	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.54E-06	mg/kg	1.54	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	1,2,3,6,7,8-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C2-10^1-DF	3/20/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.69E-06	mg/kg	1.69	ppt	U	--	--

Table 3
CU Sample Results Across A9PII

SAMPLE_ID	Sample Date	Parameter	Val Result	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-C2-5^1-DF	3/19/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.86E-06	mg/kg	1.86	ppt	U	--	--
A9P2-C3-13^2-DF	3/28/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.46E-06	mg/kg	1.46	ppt	U	--	--
A9P2-C3-2^2-DF	3/28/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.56E-06	mg/kg	1.56	ppt	U	--	--
A9P2-C4-14^2-DF	3/31/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C4-8^2-DF	3/31/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C5-8^2-DF	4/1/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.59E-06	mg/kg	1.59	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C6-6^2-DF	3/21/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	4.42E-07	mg/kg	0.442	ppt	J	--	--
A9P2-C7-8^2-DF	3/24/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C8-13^2-DF	3/25/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.55E-06	mg/kg	1.55	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.54E-06	mg/kg	1.54	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C2-10^1-DF	3/20/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	U	--	--
A9P2-C2-5^1-DF	3/19/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.86E-06	mg/kg	1.86	ppt	U	--	--
A9P2-C3-13^2-DF	3/28/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.46E-06	mg/kg	1.46	ppt	U	--	--
A9P2-C3-2^2-DF	3/28/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.56E-06	mg/kg	1.56	ppt	U	--	--
A9P2-C4-14^2-DF	3/31/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C4-8^2-DF	3/31/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C5-8^2-DF	4/1/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.59E-06	mg/kg	1.59	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C6-6^2-DF	3/21/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.52E-06	mg/kg	1.52	ppt	U	--	--
A9P2-C7-8^2-DF	3/24/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C8-13^2-DF	3/25/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.55E-06	mg/kg	1.55	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.54E-06	mg/kg	1.54	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	1,2,3,7,8,9-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C2-10^1-DF	3/20/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.69E-06	mg/kg	1.69	ppt	U	--	--
A9P2-C2-5^1-DF	3/19/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.86E-06	mg/kg	1.86	ppt	U	--	--

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Table 3
CU Sample Results Across A9PII

SAMPLE_ID	Sample Date	Parameter	Val Result	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-C3-13^2-DF	3/28/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.46E-06	mg/kg	1.46	ppt	U	--	--
A9P2-C3-2^2-DF	3/28/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.56E-06	mg/kg	1.56	ppt	U	--	--
A9P2-C4-14^2-DF	3/31/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C4-8^2-DF	3/31/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C5-8^2-DF	4/1/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.59E-06	mg/kg	1.59	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C6-6^2-DF	3/21/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	4.81E-07	mg/kg	0.481	ppt	J	--	--
A9P2-C7-8^2-DF	3/24/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.02E-06	mg/kg	1.02	ppt	J	--	--
A9P2-C8-13^2-DF	3/25/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.55E-06	mg/kg	1.55	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.54E-06	mg/kg	1.54	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C2-10^1-DF	3/20/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	U	--	--
A9P2-C2-5^1-DF	3/19/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.86E-06	mg/kg	1.86	ppt	U	--	--
A9P2-C3-13^2-DF	3/28/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.46E-06	mg/kg	1.46	ppt	U	--	--
A9P2-C3-2^2-DF	3/28/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.56E-06	mg/kg	1.56	ppt	U	--	--
A9P2-C4-14^2-DF	3/31/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C4-8^2-DF	3/31/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C5-8^2-DF	4/1/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.59E-06	mg/kg	1.59	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.46E-07	mg/kg	0.146	ppt	J	--	--
A9P2-C6-6^2-DF	3/21/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.52E-06	mg/kg	1.52	ppt	U	--	--
A9P2-C7-8^2-DF	3/24/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C8-13^2-DF	3/25/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.55E-06	mg/kg	1.55	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.54E-06	mg/kg	1.54	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	1,2,3,7,8-Pentachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C2-10^1-DF	3/20/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.69E-06	mg/kg	1.69	ppt	U	--	--
A9P2-C2-5^1-DF	3/19/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.86E-06	mg/kg	1.86	ppt	U	--	--
A9P2-C3-13^2-DF	3/28/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.46E-06	mg/kg	1.46	ppt	U	--	--

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Table 3
CU Sample Results Across A9PII

SAMPLE_ID	Sample Date	Parameter	Val Result	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-C3-2^2-DF	3/28/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.56E-06	mg/kg	1.56	ppt	U	--	--
A9P2-C4-14^2-DF	3/31/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C4-8^2-DF	3/31/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C5-8^2-DF	4/1/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.59E-06	mg/kg	1.59	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C6-6^2-DF	3/21/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.52E-06	mg/kg	1.52	ppt	U	--	--
A9P2-C7-8^2-DF	3/24/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C8-13^2-DF	3/25/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.55E-06	mg/kg	1.55	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.54E-06	mg/kg	1.54	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C2-10^1-DF	3/20/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	U	--	--
A9P2-C2-5^1-DF	3/19/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.86E-06	mg/kg	1.86	ppt	U	--	--
A9P2-C3-13^2-DF	3/28/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.46E-06	mg/kg	1.46	ppt	U	--	--
A9P2-C3-2^2-DF	3/28/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.56E-06	mg/kg	1.56	ppt	U	--	--
A9P2-C4-14^2-DF	3/31/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C4-8^2-DF	3/31/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C5-8^2-DF	4/1/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.59E-06	mg/kg	1.59	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C6-6^2-DF	3/21/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	J	--	--
A9P2-C7-8^2-DF	3/24/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C8-13^2-DF	3/25/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.55E-06	mg/kg	1.55	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.54E-06	mg/kg	1.54	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	2,3,4,6,7,8-Hexachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C2-10^1-DF	3/20/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.69E-06	mg/kg	1.69	ppt	U	--	--
A9P2-C2-5^1-DF	3/19/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.86E-06	mg/kg	1.86	ppt	U	--	--
A9P2-C3-13^2-DF	3/28/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.46E-06	mg/kg	1.46	ppt	U	--	--
A9P2-C3-2^2-DF	3/28/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.56E-06	mg/kg	1.56	ppt	U	--	--

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Table 3
CU Sample Results Across A9PII

SAMPLE_ID	Sample Date	Parameter	Val Result	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-C4-14^2-DF	3/31/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C4-8^2-DF	3/31/2003	2,3,4,7,8-Pentachlorodibenzofuran	2.94E-07	mg/kg	0.294	ppt	U	--	--
A9P2-C5-8^2-DF	4/1/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.59E-06	mg/kg	1.59	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C6-6^2-DF	3/21/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.52E-06	mg/kg	1.52	ppt	U	--	--
A9P2-C7-8^2-DF	3/24/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.61E-06	mg/kg	1.61	ppt	U	--	--
A9P2-C8-13^2-DF	3/25/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.53E-06	mg/kg	1.53	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.55E-06	mg/kg	1.55	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.54E-06	mg/kg	1.54	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	2,3,4,7,8-Pentachlorodibenzofuran	1.51E-06	mg/kg	1.51	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	2,3,7,8-tetrachlorodibenzofuran	1.58E-06	mg/kg	1.58	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	2,3,7,8-tetrachlorodibenzofuran	6.45E-07	mg/kg	0.645	ppt	U	--	--
A9P2-C2-10^1-DF	3/20/2003	2,3,7,8-tetrachlorodibenzofuran	6.76E-07	mg/kg	0.676	ppt	U	--	--
A9P2-C2-5^1-DF	3/19/2003	2,3,7,8-tetrachlorodibenzofuran	7.43E-07	mg/kg	0.743	ppt	U	--	--
A9P2-C3-13^2-DF	3/28/2003	2,3,7,8-tetrachlorodibenzofuran	1.46E-06	mg/kg	1.46	ppt	U	--	--
A9P2-C3-2^2-DF	3/28/2003	2,3,7,8-tetrachlorodibenzofuran	6.23E-07	mg/kg	0.623	ppt	U	--	--
A9P2-C4-14^2-DF	3/31/2003	2,3,7,8-tetrachlorodibenzofuran	6.06E-07	mg/kg	0.606	ppt	U	--	--
A9P2-C4-8^2-DF	3/31/2003	2,3,7,8-tetrachlorodibenzofuran	6.13E-07	mg/kg	0.613	ppt	U	--	--
A9P2-C5-8^2-DF	4/1/2003	2,3,7,8-tetrachlorodibenzofuran	6.35E-07	mg/kg	0.635	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	2,3,7,8-tetrachlorodibenzofuran	1.48E-06	mg/kg	1.48	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	2,3,7,8-tetrachlorodibenzofuran	6.31E-07	mg/kg	0.631	ppt	U	--	--
A9P2-C6-6^2-DF	3/21/2003	2,3,7,8-tetrachlorodibenzofuran	6.32E-07	mg/kg	0.632	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	2,3,7,8-tetrachlorodibenzofuran	6.07E-07	mg/kg	0.607	ppt	U	--	--
A9P2-C7-8^2-DF	3/24/2003	2,3,7,8-tetrachlorodibenzofuran	6.42E-07	mg/kg	0.642	ppt	U	--	--
A9P2-C8-13^2-DF	3/25/2003	2,3,7,8-tetrachlorodibenzofuran	6.12E-07	mg/kg	0.612	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	2,3,7,8-tetrachlorodibenzofuran	6.20E-07	mg/kg	0.620	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	2,3,7,8-tetrachlorodibenzofuran	1.54E-06	mg/kg	1.54	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	2,3,7,8-tetrachlorodibenzofuran	6.05E-07	mg/kg	0.605	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.31E-07	mg/kg	0.631	ppt	U	--	--
A9P2-C10-5^2-DF	3/27/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.45E-07	mg/kg	0.645	ppt	U	--	--
A9P2-C2-10^1-DF	3/20/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.76E-07	mg/kg	0.676	ppt	U	--	--
A9P2-C2-5^1-DF	3/19/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	7.43E-07	mg/kg	0.743	ppt	U	--	--
A9P2-C3-13^2-DF	3/28/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	5.85E-07	mg/kg	0.585	ppt	U	--	--
A9P2-C3-2^2-DF	3/28/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.23E-07	mg/kg	0.623	ppt	U	--	--
A9P2-C4-14^2-DF	3/31/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.06E-07	mg/kg	0.606	ppt	U	--	--

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Table 3
CU Sample Results Across A9PII

SAMPLE_ID	Sample Date	Parameter	Val Result	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-C4-8^2-DF	3/31/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.13E-07	mg/kg	0.613	ppt	U	--	--
A9P2-C5-8^2-DF	4/1/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.35E-07	mg/kg	0.635	ppt	U	--	--
A9P2-C5-9^2-DF	4/1/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	5.94E-07	mg/kg	0.594	ppt	U	--	--
A9P2-C6-10^2-DF	3/21/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.31E-07	mg/kg	0.631	ppt	U	--	--
A9P2-C6-6^2-DF	3/21/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.32E-07	mg/kg	0.632	ppt	U	--	--
A9P2-C7-1^2-DF	3/24/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.07E-07	mg/kg	0.607	ppt	U	--	--
A9P2-C7-8^2-DF	3/24/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.42E-07	mg/kg	0.642	ppt	U	--	--
A9P2-C8-13^2-DF	3/25/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.12E-07	mg/kg	0.612	ppt	U	--	--
A9P2-C8-4^2-DF	3/25/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.20E-07	mg/kg	0.620	ppt	U	--	--
A9P2-C9-11^2-DF	3/26/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.15E-07	mg/kg	0.615	ppt	U	--	--
A9P2-C9-6^2-DF	3/26/2003	2,3,7,8-tetrachlorodibenzo-p-dioxin	6.05E-07	mg/kg	0.605	ppt	U	--	--
A9P2-C10-10^2-DF	3/27/2003	Octachlorodibenzofuran	1.35E-06	mg/kg	1.35	ppt	U	10	ppt
A9P2-C10-5^2-DF	3/27/2003	Octachlorodibenzofuran	2.01E-06	mg/kg	2.01	ppt	U	10	ppt
A9P2-C2-10^1-DF	3/20/2003	Octachlorodibenzofuran	4.86E-06	mg/kg	4.86	ppt	-	10	ppt
A9P2-C2-5^1-DF	3/19/2003	Octachlorodibenzofuran	7.29E-06	mg/kg	7.29	ppt	-	10	ppt
A9P2-C3-13^2-DF	3/28/2003	Octachlorodibenzofuran	2.24E-06	mg/kg	2.24	ppt	U	10	ppt
A9P2-C3-2^2-DF	3/28/2003	Octachlorodibenzofuran	1.94E-06	mg/kg	1.94	ppt	U	10	ppt
A9P2-C4-14^2-DF	3/31/2003	Octachlorodibenzofuran	3.03E-06	mg/kg	3.03	ppt	U	10	ppt
A9P2-C4-8^2-DF	3/31/2003	Octachlorodibenzofuran	5.56E-06	mg/kg	5.56	ppt	U	10	ppt
A9P2-C5-8^2-DF	4/1/2003	Octachlorodibenzofuran	4.88E-07	mg/kg	0.488	ppt	J	10	ppt
A9P2-C5-9^2-DF	4/1/2003	Octachlorodibenzofuran	3.17E-06	mg/kg	3.17	ppt	-	10	ppt
A9P2-C6-10^2-DF	3/21/2003	Octachlorodibenzofuran	7.91E-06	mg/kg	7.91	ppt	-	10	ppt
A9P2-C6-6^2-DF	3/21/2003	Octachlorodibenzofuran	2.11E-06	mg/kg	2.11	ppt	J	10	ppt
A9P2-C7-1^2-DF	3/24/2003	Octachlorodibenzofuran	4.47E-06	mg/kg	4.47	ppt	-	10	ppt
A9P2-C7-8^2-DF	3/24/2003	Octachlorodibenzofuran	7.47E-06	mg/kg	7.47	ppt	-	10	ppt
A9P2-C8-13^2-DF	3/25/2003	Octachlorodibenzofuran	5.22E-07	mg/kg	0.522	ppt	U	10	ppt
A9P2-C8-4^2-DF	3/25/2003	Octachlorodibenzofuran	4.01E-06	mg/kg	4.01	ppt	U	10	ppt
A9P2-C9-11^2-DF	3/26/2003	Octachlorodibenzofuran	3.08E-06	mg/kg	3.08	ppt	U	10	ppt
A9P2-C9-6^2-DF	3/26/2003	Octachlorodibenzofuran	3.03E-06	mg/kg	3.03	ppt	U	10	ppt
A9P2-C10-10^2-DF	3/27/2003	Octachlorodibenzo-p-dioxin	7.00E-06	mg/kg	7.00	ppt	U	10	ppt
A9P2-C10-5^2-DF	3/27/2003	Octachlorodibenzo-p-dioxin	1.03E-05	mg/kg	10.3	ppt	-	10	ppt
A9P2-C2-10^1-DF	3/20/2003	Octachlorodibenzo-p-dioxin	2.97E-05	mg/kg	29.7	ppt	-	10	ppt
A9P2-C2-5^1-DF	3/19/2003	Octachlorodibenzo-p-dioxin	3.31E-05	mg/kg	33.1	ppt	-	10	ppt
A9P2-C3-13^2-DF	3/28/2003	Octachlorodibenzo-p-dioxin	4.35E-05	mg/kg	43.5	ppt	-	10	ppt
A9P2-C3-2^2-DF	3/28/2003	Octachlorodibenzo-p-dioxin	4.37E-05	mg/kg	43.7	ppt	-	10	ppt
A9P2-C4-14^2-DF	3/31/2003	Octachlorodibenzo-p-dioxin	2.70E-05	mg/kg	27.0	ppt	-	10	ppt
A9P2-C4-8^2-DF	3/31/2003	Octachlorodibenzo-p-dioxin	1.40E-05	mg/kg	14.0	ppt	-	10	ppt

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Table 3
CU Sample Results Across A9PII

SAMPLE_ID	Sample Date	Parameter	Val Result	Units	Converted Val Result	Units	VQ	FRL	Units
A9P2-C5-8^2-DF	4/1/2003	Octachlorodibenzo-p-dioxin	4.39E-06	mg/kg	4.39	ppt	-	10	ppt
A9P2-C5-9^2-DF	4/1/2003	Octachlorodibenzo-p-dioxin	4.28E-05	mg/kg	42.8	ppt	-	10	ppt
A9P2-C6-10^2-DF	3/21/2003	Octachlorodibenzo-p-dioxin	1.66E-05	mg/kg	16.6	ppt	-	10	ppt
A9P2-C6-6^2-DF	3/21/2003	Octachlorodibenzo-p-dioxin	6.98E-06	mg/kg	6.98	ppt	-	10	ppt
A9P2-C7-1^2-DF	3/24/2003	Octachlorodibenzo-p-dioxin	2.87E-05	mg/kg	28.7	ppt	-	10	ppt
A9P2-C7-8^2-DF	3/24/2003	Octachlorodibenzo-p-dioxin	2.45E-04	mg/kg	245	ppt	-	10	ppt
A9P2-C8-13^2-DF	3/25/2003	Octachlorodibenzo-p-dioxin	2.54E-06	mg/kg	2.54	ppt	U	10	ppt
A9P2-C8-4^2-DF	3/25/2003	Octachlorodibenzo-p-dioxin	1.42E-05	mg/kg	14.2	ppt	-	10	ppt
A9P2-C9-11^2-DF	3/26/2003	Octachlorodibenzo-p-dioxin	2.61E-06	mg/kg	2.61	ppt	U	10	ppt
A9P2-C9-6^2-DF	3/26/2003	Octachlorodibenzo-p-dioxin	3.03E-06	mg/kg	3.03	ppt	U	10	ppt

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Table 4
Toxicity Equivalent Factor Calculation
Using the Maximum Dioxin / Furan Result from Entire Data Set

Boring	Abbreviation	Lab Res (mg/kg)	LQ	Concentration (pg/g)	TEF	Adjusted Conc (pg/g) ND @ 0	Adjusted Conc (pg/g) ND @ 1/2
A9P2-C2-5	2,3,7,8-TCDD	0.000000743	U	0.3715	1	0	0.3715
A9P2-C2-5	1,2,3,7,8-PeCDD	0.00000186	U	0.93	0.5	0	0.465
A9P2-C2-5	1,2,3,4,7,8-HxCDD	0.00000186	U	0.93	0.1	0	0.093
A9P2-S3	1,2,3,6,7,8-HxCDD	0.000000277	J	0.277	0.1	0.0277	0.0277
A9P2-C7-8	1,2,3,7,8,9-HxCDD	0.00000102	J	1.02	0.1	0.102	0.102
A9P2-C7-8	1,2,3,4,6,7,8-HpCDD	0.00000993		9.93	0.01	0.0993	0.0993
A9P2-S1	OCDD	0.000321		321	0.001	0.321	0.321
A9P2-S4	2,3,7,8-TCDF	0.000000625	J	0.625	0.1	0.0625	0.0625
A9P2-S4	1,2,3,7,8-PeCDF	0.000000234	J	0.234	0.05	0.0117	0.0117
A9P2-C4-8	2,3,4,7,8-PeCDF	0.000000294	J	0.294	0.5	0.147	0.147
A9P2-S4	1,2,3,4,7,8-HxCDF	0.0000012	J	1.2	0.1	0.12	0.12
A9P2-S1	1,2,3,6,7,8-HxCDF	0.000000164	J	0.164	0.1	0.0164	0.0164
A9P2-C2-5	1,2,3,7,8,9-HxCDF	0.00000186	U	0.93	0.1	0	0.093
A9P2-C2-5	2,3,4,6,7,8-HxCDF	0.00000186	U	0.93	0.1	0	0.093
A9P2-C7-8	1,2,3,4,6,7,8-HpCDF	0.00000545		5.45	0.01	0.0545	0.0545
A9P2-C2-5	1,2,3,4,7,8,9-HpCDF	0.000000413	J	0.413	0.01	0.00413	0.00413
A9P2-C6-10	OCDF	0.00000791		7.91	0.001	0.00791	0.00791
				TOTAL		0.97414	2.08964

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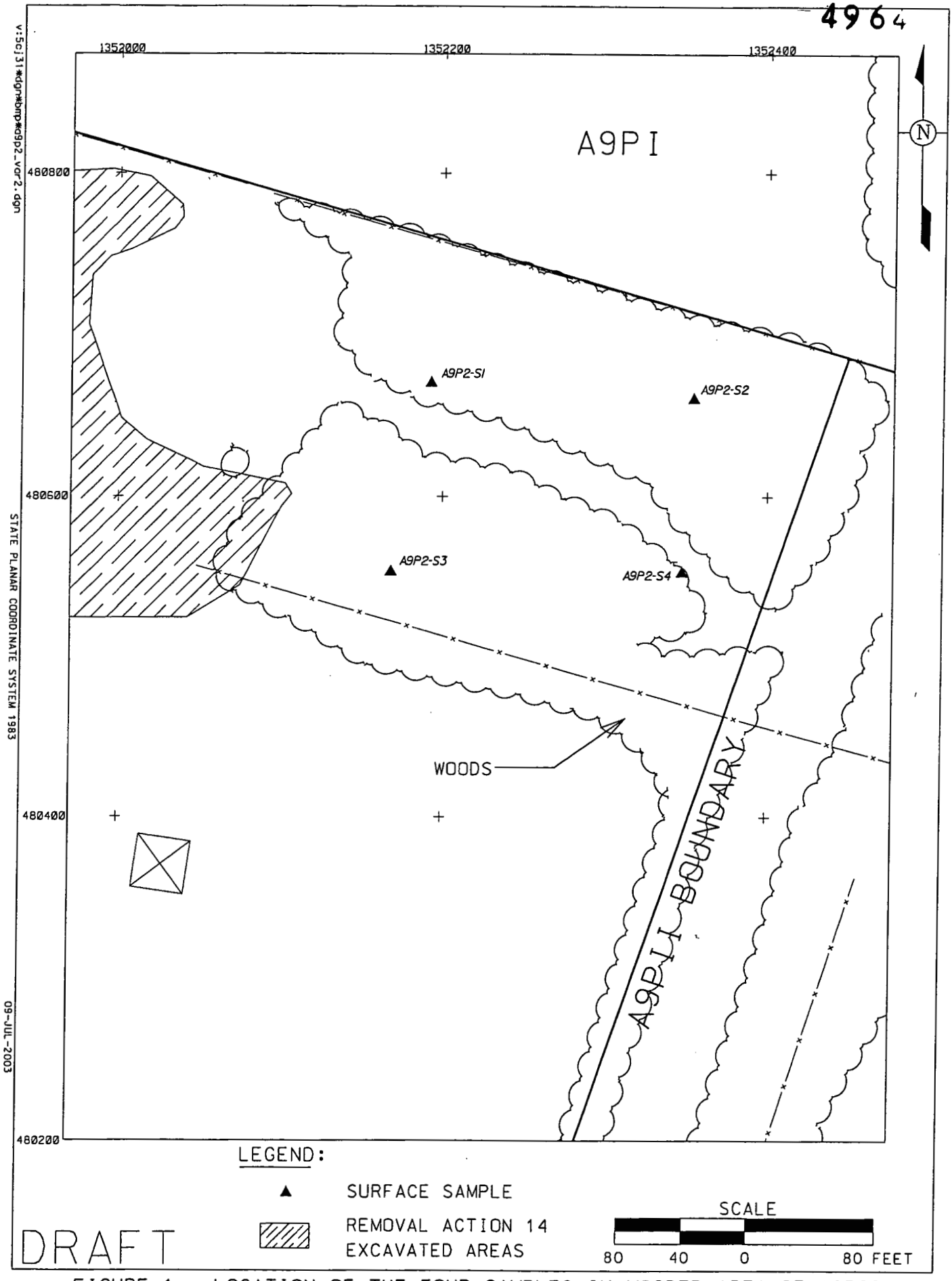

FIGURE 1. LOCATION OF THE FOUR SAMPLES IN WOODED AREA OF A9PII

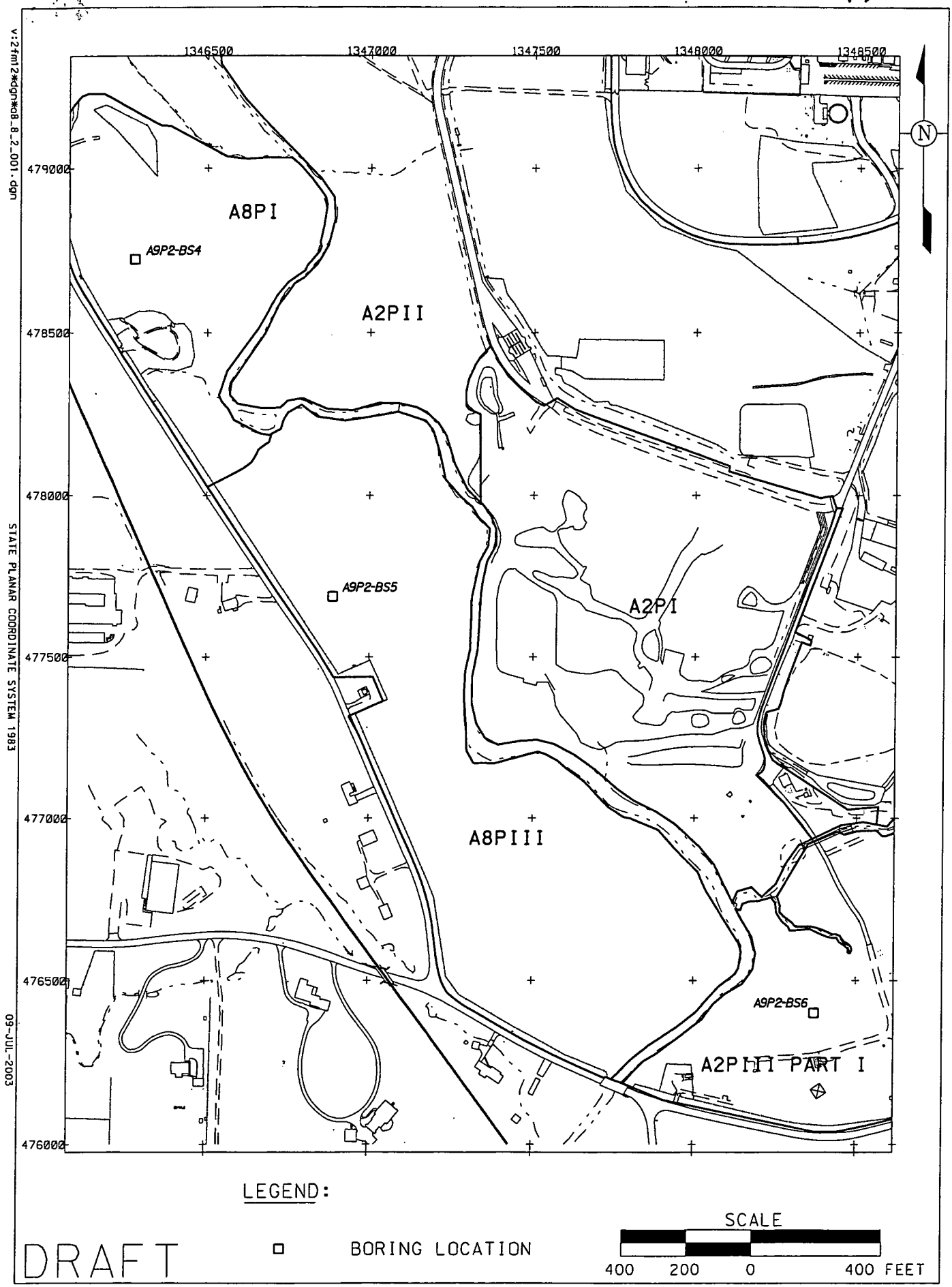

FIGURE 2. BACKGROUND SAMPLE RESULTS FROM A8PI, A8PIIIS, AND A2PIII

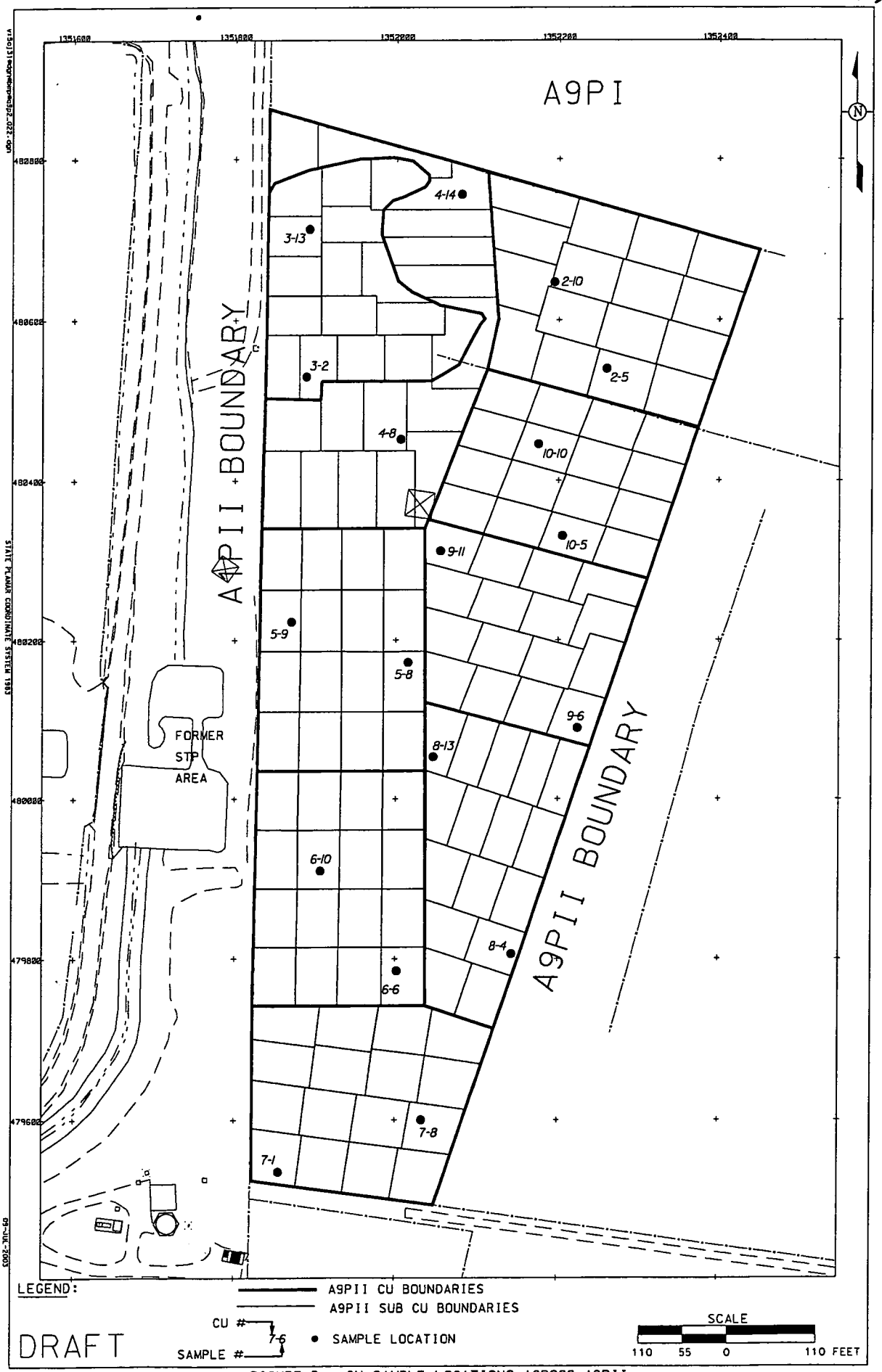

FIGURE 3. CU SAMPLE LOCATIONS ACROSS A9PII