Los Alamos National Laboratory

ENVIRONMENTAL RESTORATION

Environmental Restoration
University of California
Environmental Restoration, MS M992
Los Alamos, New Mexico 87545
505-667-0808/FAX 505-665-4747

U. S. Department of Energy
Los Alamos Area Office, MS A316
Los Alamos, New Mexico 87544
505-665-7203
FAX 505-665-4504

Date: May 2, 1996
Refer to: EM/ER:96-253

RECEIVED
MAY 7 1996

Mr.Benito Garcia
NMED-HRMB
P.O. Box 26110
2044 Galisteo St., Bldg. A
Santa Fe, NM 87502

SUBJECT: RESPONSE TO THE NOTICE OF DEFICIENCY (NOD) FOR SOLID WASTE MANAGEMENT UNIT (SWMU) 3-056(c), TECHNICAL AREA (TA) 3, EXPEDITED CLEANUP STATUS REPORT

Dear Mr. Garcia:

Enclosed is the Los Alamos National Laboratory's (LANL) response to the Environmental Protection Agency's NOD concerning the EC Status Report for SWMU 3-056(c). The NOD was received at the Los Alamos Area Office on March 19, 1996. The enclosed response repeats each comment from the NOD for convenience in reviewing.

LANL is currently employing temporary stormwater control measures at the site to protect the three exposed excavation surfaces. Therefore, LANL would like to request an expedited determination from the regulatory agencies regarding the capping, slope stabilization, and surface water run-off monitoring plan as a final remedy for this site. We would also like to set a date for a future meeting with the regulatory agencies to discuss the NOD response and the regulatory agencies' determination.

5480

Please contact Garry Allen at (505) 665-7444 or Bonnie Koch at (505) 665-7202, if you have any questions regarding the response to the NOD.

Sincerely,

Jorg Jansen, Program Manager
Environmental Restoration

Sincerely,

for Theodore J. Taylor, Program Manager
Los Alamos Area Office

JJ/TT/rfr

Enclosures: Response of Status Report to NOD for TA-3, SWMU 3-056(c)

Cy (w/encl.):
G. Allen, CST-18, MS E525
B. Driscoll, EPA, Region 6
D. Griswold, ERD, AL, MS A906
J. Harry, EM/ER, MS M992
B. Hoditschek, NMED-HRMB
R. Kern, NMED-HRMB
E. Koch, LAAO, MS A316
N. Naraine, EM-453, DOE-HQ
D. Neleigh, EPA, R.6, 6PD-N
J. Piatt, Chief, NMED-SWQB
L. Roberts, EPA 6EN-AT
G. Saums, NED-SWQB
T. Taylor, LAAO, MS A316
N. Weber, NMED-AIP, MS J993
J. White, ESH-19, MS K498
S,. Yanicak, NMED-AIP, MS J993
RPF, MS M707

Cy (wo/encl.):
T. Baca, EM, MS J591
D. Bradbury, EM/ER, MS M992
T. Glatzmaier, DDEES/ER, MS M992
D. McInroy, EM/ER, MS M992
G. Rael, ERD, AL, MS A906
W. Spurgeon, EM-453, DOE-HQ
J. Vozella, LAAO, MS A316
EM/ER File, (C073), MS M992

List of Deficiencies
Status Report (8/95 - 10/95) for SWMU 3-056(c)
Los Alamos National Laboratory

General response to the following paragraph in the NOD cover letter:

Based on Resource Conservation and Recovery Act (RCRA), and the NMED Surface Water Quality Bureau (SWQB), it appears that a cleanup level of less than or equal to 1 ppm for PCBs in soil remains appropriate. This is based primarily on a concern for release of PCBs to surface water from PCB contaminated media at SWMU 3-056(c).

Response:
LANL believes the risk assessments presented in the Status Report, in conjunction with the slope stabilization and water monitoring activities outlined in response to Comment 5 (d,e) continue to support the proposed cleanup level of 10 ppm PCBs as protective of human health and the environment. Any additional questions regarding the ecological risk assessment methodology are intended to be clarified by focused interactions with the regulator risk personnel regarding the application of the ECOTRAN model.

LANL's focus on surface water concerns has resulted in a site restoration plan that includes extensive capping measures and slope stabilization with complete runon/runoff controls. In addition, we have proposed eight quarters of water sampling for confirmation of effectiveness.

Comment 1.
LANL presented a position paper on Polychlorinated biphenyls (PCBs) to EPA on February 28, 1995. EPA provided comments to LANL on this paper on May 8, 1995. LANL appears to he using the original position paper without incorporating EPA's comments. When or does LANL intend to revise this position paper to incorporate EPA comments?

Response:
The PCB position paper revision is in progress; anticipated completion is late May, 1996.

Comment 2.
LANL should supply figures which correspond to all sample data submitted, and these figures should indicate sampling locations with sample numbers. This was done in Figure 4 for some of the sampling information, but was not done for additional sampling points.

Response:
The sample data was presented in two tables, one entitled "Solid Waste Management Unit 3-056(c) Sample Results", and the second, "SWMU 3-056(c) West Slope Post-Excavation Samples". The first table (hereto referred to as Table I) was divided into the

Table 2; PRS 3-056(c) QA/QC Samples and other Samples
Table 3; PRS 3-056(c) Verification Sample Summary, West Slope
Table 4; PRS 3-056(c) Verification Sample Summary, North Slope
Table 5; PRS 3-056(c) Verification Composite Samples, West Slope
Table 6; PRS 3-056(c) West Slope Verification Grid Samples
Table 7; PRS 3-056(c) Verification Composite Samples, North Slope
Table 8; PRS 3-056(c) North Slope Verification Grid Samples
Table 9; ATI Mobile Laboratory Data for Individual Aroclors

The verification sample locations are depicted in Figure 7 of Appendix B. Each slope was divided into 4 quadrants, A through D. Each quadrant had 9 to 10 sample aliquots collected to make up the composite sample. If the composite sample was over 2 ppm PCBs, we resubmitted the individual aliquots for analyses. Although the grid location numbers are not represented on Figure 7, both the quadrant letter and a symbol depicting the individual aliquot locations are shown.

Appendix B contains Figures 1 through 9. Following Figure 9 is a revised "Site Specific Statement of Work" for the proposed capping and slope stabilization project. Figures 1-5 orient the reader to the SWMU site and excavation. Figure 6 represents the eight areas for modeling sediment transport used in the ECOTRAN model. Figure 7 represents the verification sample locations. Figures 8 and 9 represent the capping and slope stabilization plan.

Comment 3.
LANL should differentiate as to which type of AROCHLOR is found in the soil.

Response:
Of the 465 mobile laboratory samples collected, Aroclor 1260 was detected 74% of the time (see Table 9 of Appendix A). Aroclor 1254 and 1242 were also detected, but not as often. Aroclor 1254 was detected in 65% of the same samples in which Aroclor 1260 was detected. Aroclor 1242 was detected in 19% of the same samples in which Aroclor 1260 was detected. To reiterate, Aroclor 1254 and 1242 were only detected in samples that also contained Aroclor 1260. The ATI mobile laboratory data is attached as Table 9 of Appendix A.

Comment 4.
LANL should develop a sampling plan with the NMED Surface Water Bureau for surface water including run-off events.

Response:
The proposed SWMU 3-056(c) surface runoff water sampling plan is attached as Appendix C.

Comment 5
LANL needs to expand on the amount of work which has already occurred such as:
a) the depth of excavation to date;

Response:
a) The depth of excavation is not easily defined. The area contaminated with greater than 1 ppm PCBs consists of both level mesa top (7,865 sq ft surface area), the western slope face (8,356 sq ft surface area at a 30° slope), and the northern slope face (7,883 sq ft surface area at a < 45° slope). The geology is described as moderately deep, well-drained soils, that formed in material weathered from tuff. Pleistocene ash flows of the Bandelier Tuff directly underlie the soil at depths ranging from 1.5 to 5.5 ft. The mesa top was obviously extended in this area by addition of fill (consisting of crushed tuff, soil, and rocks). Much of the fill has been contaminated, however, to remove the fill from crevices and around boulders on the slope faces is similar to a mining expedition. To have the smallest impact on the environment as possible, we removed only as much fill and tuff as needed to reach a cleanup level of 10 ppm. This resulted in the excavation of soil/tuff from 6 inches in depth, to 8 feet in depth, for a total of 1000 cu yds of material.

Comment 5.
LANL needs to expand on the amount of work which has already occurred such as:
b) depth to which excavation must continue to reach a level of less than 1 ppm for PCBs;

Response:
b) The depth to which excavation must continue to reach a cleanup level of 1 ppm is similarly difficult to define. From the sampling information we have gathered to date, we would need to remove a surface area equivalent to 23,822 sq ft. to reach a 1 ppm PCB cleanup level. At our specific sample points we have vertical extent defined, however, due to the heterogeneous nature of the fill over the original topography, and variability of weathered tuff between sample points, the estimate of material to be removed must take into account these factors. For this estimate we will assume a one foot excavation depth from the total surface area, which would equate to another 882 cu yds of material from the mesa top and slope faces. An additional 70 cu yds of material would have to be scraped out of the drainage channels leading to Sandia Canyon from the northern slope, bringing the total of material needing to be excavated, 952 cu yds. This is an approximation. In places we may have to excavate deeper than one foot, in other places, less than one foot.

Comment 5.
LANL needs to expand on the amount of work which has already occurred such as:
c) ground water information for the site;

Response:
c) The site is located near the headwaters of a tributary to Sandia Canyon. The cooling tower water outfall from the power plant upstream produces a perennial flow, however peizometers have not been installed in the tributary because a large portion of the channel bottom is composed of bedrock. What alluvium is present exists mostly as discontinuous zones of sediment that are in nature more similar to sediment traps than for any kind of perched zone or alluvial aquifer that could truly be evaluated by sampling. Two monitor wells have been installed (1.5 to 2.0 miles below the site) in Sandia Canyon below the confluence of the tributary on which the site is located and the main Sandia Canyon channel. These wells have always been dry when sampled. This provides further support to the fact that Sandia Canyon, the tributary, as well as the main channel, does not contain a saturated alluvial aquifer. The depth from the site to the main aquifer is estimated to be from 950 to 1200 feet below the mesa top.

Comment 5.
LANL needs to expand on the amount of work which has already occurred such as:
d) how will the site be stabilized;

Response:
d) Our current plan is to terrace both slopes to reduce the grade to 20%, then cover the existing surface with a minimum of 12 inches of soil, seed the soil with native grasses, and cover it with straw matting (a curlex blanket) to help the vegetation take root (see Figures 8 and 9 of Appendix B). A rock gabion (3 ft high, 2 ft wide [approx.], wire cage filled with rock) will be placed at the foot of the west slope just before the slope converges with the stream channel. Visual monitoring of the terraced slope faces will be performed until the new vegetation reaches 70% of its natural cover. A soil berm will be installed at the foot of the north slope to prevent precipitation that falls on the slope from flowing into the stream channels, and on to Sandia Canyon. The slope stabilization plan was found to be satisfactory by geotechnical engineers with Golder Associates, Inc., and LANL FSS-8 engineering personnel, who reviewed and provided comments on the plan. Harvey Decker and Ralph Ford-Schmidt from NMED-AIP, also agreed with the engineering approach.

Comment 5.
LANL needs to expand on the amount of work which has already occurred such as:
e) what run-on and run off controls will be used at the site including information on a contingency plan should monitoring indicate a problem.

Response:
e) Runon controls will include regrading the mesa top to force all surface storm water to drain across the mesa top (where the new fill will be covered with an asphalt surface) to a dropbox inlet drain, and finally through a culvert that carries the water directly to the stream channel (see Figure 8 of Appendix B). This will eliminate any

storm water from running onto either the north or west slope. The stream channels leading from the north slope to Sandia Canyon are filled with sediment, soil, pine needles, leaves and other organic matter. Two rock gabions will be placed in each channel to help eliminate the sediment from proceeding to Sandia Canyon during rain events and snow melt (see Figure 5 of Appendix B). We also propose to monitor the runoff (precipitation that falls on the north and west slopes) for 8 quarters once the slope stabilization has been completed. If analysis of the runoff water indicate that PCBs are present in concentrations that exceed 1 ppm, NMED Surface Water Bureau will be contacted. After notification, LANL and DOE personnel will resolve the situation in coordination with NMED SWQB.

Comment 6.
LANL has provided very rough cost estimates, and should provide additional detailed information on costs spent to date, as well as, cost estimates for the additional remediation and sampling work to be conducted.

Response:
Actual costs are presented in the attached worksheet titled " PRS 3-056(c) Costs by Activity". The worksheet, along with a few brief paragraphs on the difficulties we have faced to date that increased the costs at this EC site are included in Appendix D.

The estimated costs to continue excavation activities to reach a PCB concentration of 1 ppm are included in Appendix E. The two spreadsheets in Appendix E estimate costs in two scenarios; Page one costs are calculated using our current disposal options (Kettleman Hills California), assuming continued adherence to TSCA and RCRA waste handling requirements. However, costs for any continued cleanup efforts at this site would be reduced if we were allowed (by EPA TSCA and RCRA) to stockpile the soil before transferring it into dump trucks. Page 2 costs are calculated assuming we could get special dispensation for stockpiling, and be allowed to dispose of our less-than-50 ppm PCB-only waste stream at a Class C or D landfill. The assumption for PCB-only soil is that the samples to not contain any detectable solvents, determined by collecting samples from the stockpiled soil for waste characterization.

In either case, the labor estimate for further excavation to reach a 1 ppm PCB cleanup level is extensive due to the difficulty in reaching the contaminated soil within the rocky and steep terrain. We would have to employ a trackhoe again, to remove remaining contamination on the slope faces, which would mean cutting down another 12 - 15 trees [primarily on the north slope; and one large (100 ft) pine on the west slope]. In addition, we will have to work around the effluent transfer pipes that are buried underground at the ridge of the north slope. Another factor that adds to the time and labor, is handling the soil many times to get it from the bottom of the slope up to the top.

Comment 7. Ecological Risk Assessment
General Comment: LANL's approach to evaluate the risk from PCBs to the environment at SWMU 3-056(c) cannot be fully assessed with the information supplied.

General Response: LANL would like to pursue separation of the SWMU 3-056(c) physical boundary from the downstream wetland. LANL would like to further propose that the 10 ppm PCB cleanup level, capping, slope stabilization and future water runoff monitoring for SWMU 3-056(c), be evaluated by the regulatory agencies as a final remedy for that physical location. The ecological impacts from PCBs and any other contaminant in the wetland downstream from SMWU 3-056(c) will be evaluated by LANL as a separate PRS during future RFI activities.

Comment 7a.
EPA agrees with the use of a fate and transport model to evaluate effects of various PCB cleanup levels. However, the ECOTRAN model used is not familiar to us and we cannot evaluate its strengths and weaknesses of its use at this site without more information. A detailed description of the model including all input parameters, assumptions, and references should be submitted for approval prior to use.

Response:
A draft copy of "Documentation and Utilization of Ecological Transport Model (ECOTRAN)" is available for review. One copy has been provided to NMED (S. Dinwiddie) for comment. ECOTRAN incorporates relationships from other models such as RANGES IV (Gilbert, 1974, Colorado State University), ELM (Cole, et al., International Biome Project, Colorado State University), CREAMS (Knisel, 1980 USDA), and SPUR (Wight, et al., USDA). Also, several studies have been incorporated into the model: "Water storage simulation" (Hillel and Bavel, 1976), and "Runoff, sediment yield and contaminant transport" (Lane, et al., 1985). The model developers would be pleased to discuss any of the modeling assumptions or basis for selecting model parameters with EPA or NMED. The annotated input parameters for SWMU 3-056(c) are attached as Appendix F.

Comment 7b.
There is no justification presented for using a 239 acre ecosystem in the ECOTRAN model.

Response:
The use of the term "watershed" is somewhat misleading. The 239 acre ecosystem included 8 distinctive tracts, modeled as the sediment erosion areas that potentially impact the wetland. The size of this area, which is a portion of a watershed, was 239 acres. These sediment erosion areas are depicted in Figure 6, of Appendix B. The area was defined by topographic boundaries on the north and south edges. The western boundary was defined by the extent of the TA-3 industrial area, and the eastern edge was defined by the extent of the wetland.

Comment 7c.
The Oak Ridge Ecological Risk Screening Benchmark used to evaluate PCB concentrations protective of aquatic receptors (20.52 ppm) is over two orders of magnitude higher than those presented by Ontario (0.07) and Long and Morgan (0.18). The equilibrium partitioning approach used in the Oak Ridge method does not account for bioaccumulation up the food chain. It is based on how concentrations in the water partition between lipids in organisms and organics in the sediment. Also, the sediment organic content assumed should be 4 %, not 1% as proposed.

Response:
LANL originally proposed using the generic aroclor sediment benchmark value as a qualitative ecological risk screening threshold. The intent of this screening threshold was to determine if aquatic ecological effects from SWMU 3-056(c) were possible. The originally proposed value was 20.52 mg/kg, which was published by Oak Ridge National Laboratory (ORNL). ORNL has also calculated sediment benchmarks for specific aroclors, which are presented in Table A, below. Table A also indicates, in the third column what concentration could be left at the source area, and still be protective of the environment (as predicted by ECOTRAN to meet the wetland sediment benchmark on average). The ORNL benchmarks are similar to values proposed in the EPA guidance document: "Interim Sediment Criteria Values for Non-polar Hydrophobic Organic Contaminants" (EPA-SCD-17, May 1988, Office of Water Regulations and Standards, Criteria and Standards Division.) These values are presumably for contaminant equilibration by organisms from the water column without bioaccumulation from the food-chain.

The EPA sediment values for aroclor 1254 are also summarized in Table A. Note that the sediment screening values are linearly dependent on the organic carbon content. The increasing concentration limit with increasing carbon content is due to a corresponding decrease in water column concentrations with increasing carbon content. This reasoning applies for foodchain effects, especially for detritus feeders on sediment, as presumably do the reported concentration limits of the Canadian Council of Ministries of the Environment (CCME), and the NOAA values reported by Long and Morgan as mentioned in the NOD. Increased carbon content could lower the concentration limit considerably, if the acidity of the digestion apparatus in a given organism can efficiently remove the specific contaminant from ingested sediment. To our knowledge EPA has not yet set a limiting concentration for PCB's that accounts for bioaccumulation. Hence, LANL concurs that neither of these sediment screening criteria account for bioaccumulation in the food chain. However, the point has been made that the integral average predicted concentration on the wetland sediments by the ECOTRAN model as a result of SWMU 3-056(c) runoff events are about 0.0035 that of the concentration of the site. Therefore, the predicted sediment concentration from a 10 ppm concentration at this site is 0.035 ppm which is below those values reported by NOAA and the CCME as referenced.

Table A
Sediment Benchmark/Screening Values for PCB Concentrations in Organic Carbon With The Predicted Source-term PCB Value

Chemical	ORNL sediment benchmark (SQB) for the wetland, which is based on 4% organic carbon (mg/kg)	Concentration in 2.1 acre source area where the average sediment concentration predicted by ECOTRAN would equal the SQB (mg/kg)
Aroclor 1242	25.1	7,160
Aroclor 1254	0.68	194
Aroclor 1260	4,400	1,260,000
All PCBs	82.08 [a]	23,451
EPA sediment screening values		
Aroclor 1254 (1% foc)	1	286
Aroclor 1254 (4% foc)	4	1,140
Aroclor 1254 (9% foc)	9	2,570

[a] If the fraction of organic carbon (foc) is 1%, this value is 20.52 mg/kg.

In conclusion, the ECOTRAN model predicted sediment concentrations from 10 ppm site contamination levels are more consistent to the Ontario and Long & Morgan values cited above, and also indicate that 10 mg/kg at the source area would be protective of direct effects on aquatic wildlife which would include both water column and bioaccumulation effects. It is important to note that using a cleanup level of 10 mg/kg PCBs for a contaminated site is also consistent with an EPA Administrative Order on Consent (AOC) with Tennessee Gas Pipeline Company, Tenneco Inc. (EPA-AOC-94-32-C, August 9, 1994, p. 22) which allows 10 ppm PCB's concentration off-site, and 25 ppm on-site provided erodability and other factors are not overriding. The fact that LANL is separately addressing the erodability issue in keeping with the proposed 10 ppm cleanup level adds further justification for its adoption.

Comment 7d.
PCBs in soils generally are not taken up by most plants, but are accumulated by soil macroinvertebrates. Herbivores, such as the deer, and deer mice are not likely to have high exposure to PCB's. An insectivore (e.g. shrew) would be a good species to evaluate. To assess bioconcentration through the food chain a predator which feeds mainly on insectivores should be considered (possibly hawk or owl).

Response:
ECOTRAN includes direct soil consumption for all species on herbivory. In addition, 33% of the pocket mouse diet is insects (grasshoppers) along with surficially contaminated plant materials. Thus, insectivory is included in the current screening

level ecological risk assessment. In addition, ECOTRAN examines terrestrial food chain uptake through coyotes (which consume deer mice) that have soil contaminated pelts. Finally, ECOTRAN can be modified to include bird simulations as it is not currently capable of performing this task.

Comment 7e.
The numbers presented in Table I are seven year averages. Please provide justification for using seven year average values. The range of values which were averaged should also be presented.

Response:
Seven years was selected as the modeling time period to capture the initial trends in PCB redistribution and wildlife intake values. The concentration at the source area was not reduced during that time period, so no dilution was noted. The predicted PCB concentrations were temporally variable, and most of the time the model predicted no PCBs in the tributary (87.6%) or wetland (88.7%). Transitory maximum concentrations were predicted as 128% of the source term concentration in the tributary and as 94.6% of the source term concentration in the wetland. LANL viewed a temporal average as the representative statistic for estimate exposure to wildlife. Other (longer) time averages could have been used with similar results.

APPENDIX A

Table 1; Solid Waste Management Unit 3-056(c) Sample Results

Table 2; PRS 3-056(c) QA/QC Samples and other Samples

Table 3; PRS 3-056(c) Verification Sample Summary, West Slope

Table 4; PRS 3-056(c) Verification Sample Summary, North Slope

Table 5; PRS 3-056(c) Verification Composite Samples, West Slope

Table 6; PRS 3-056(c) West Slope Verification Grid Samples

Table 7; PRS 3-056(c) Verification Composite Samples, North Slope

Table 8; PRS 3-056(c) North Slope Verification Grid Samples

Table 9; ATI Mobile Laboratory Data for Individual Aroclors

Table I

Solid Waste Management Unit 3-056(c)
Sample results

Figure 5 Sample Location Number	Sample Number	Color Code (see Figure 5)	Sample Date	Grid Location (see Figure 4)	Max. Sample Depth (feet)	PCB Conc. (ppm)	PCE Conc. (ppm)	Comments
Data From Sample Locations That Have Been Excavated West Slope & Mesa Top (excavated sample locations are represented by the dark dray shaded area in Figure 5)								
Pre-excavation Sample Values								
	0070	Dark gray	8/3/95		0.5	8.5	<0.01	
	0071	Dark gray	8/3/95		0.5	3.1	<0.01	
	0072	Dark gray	8/3/95		0.5	11	<0.01	
	0073	Dark gray	8/3/95		0.25	176	<0.01	
	0074	Dark gray	8/3/95		0.6	54	<0.01	
	0075	Dark gray	8/3/95		0.5	12	<0.01	
	0076	Dark gray	8/3/95		1.1	<0.5	0.018	
	0077	Dark gray	8/3/95		1.0	81	<0.01	
	0078	Dark gray	8/3/95		1.0	<0.5	0.21	
	0079	Dark gray	8/3/95		1.0	2101	0.061	
	0080	Dark gray	8/3/95		2.6	0.38	<0.01	
	0081	Dark gray	8/3/95		3.0	2.7	<0.01	
	0084	Dark gray	8/3/95		1.5	2.2	<0.01	
	0085	Dark gray	8/3/95		1.5	0.09	0.051	
	0086	Dark gray	8/3/95		2.0	0.06	<0.01	
	0087	Dark gray	8/3/95		2.0	2.4	<0.01	
	0088	Dark gray	8/3/95		2.0	<0.5	0.023	
	0089	Dark gray	8/3/95		2.0	13	<0.01	
	0090	Dark gray	8/21/95		0.5	3.6	<0.01	
	0091	Dark gray	8/21/95		0.5	17	<0.01	
	0092	Dark gray	8/21/95		0.5	0.91	NA	
	0092	Dark gray	8/21/95		0.5	1.2	<0.05	
	0094	Dark gray	8/21/95		0.5	430	<0.05	
	0095	Dark gray	8/21/95		0.5	55	<0.05	
	0096	Dark gray	8/21/95		1.5	0.61	<0.05	
	0097	Dark gray	8/21/95		2.5	1.17	NA	
	0098	Dark gray	8/21/95		0.5	9.1	NA	
Samples Collected During Excavation Activities, Sorted by Grid Number								
	0099	Dark gray	8/23/95	A1	0.5	4.5	<0.05	
	0485	Dark gray	9/23/95	3-056-AA	0.3	0.85	NA	Adjacent to sample location 3-2210
	0486	Dark gray	9/23/95	3-056-AB	0.25	<0.10	NA	Adjacent to sample location 3-2209
	0391	Dark gray	9/15/95	A12	0.33	10	<0.05	Surface sample
	0392	Dark gray	9/15/95	A12	1.0	<0.10	0.57	Also 84 ppb 1,1,1-Trichloroethene
	0393	Dark gray	9/15/95	A12	2.0	<0.10	0.051	Refusal at 2.0 feet.
	0668	Dark gray	10/4/95	A14	0.2	6.7	<0.05	
	0669	Dark gray	10/4/95	A14	1.0	9.5	<0.05	
	0670	Dark gray	10/4/95	A14	2.0	2.1	<0.05	
	0671	Dark gray	10/4/95	A14	2.8	0.86	<0.05	Refusal at 2.8 feet.
	0250	Dark gray	8/30/95	A2	0.5	0.36	NA	
	0254	Dark gray	8/30/95	A2	1.0	0.89	NA	
	0255	Dark gray	8/30/95	A2	2.0	<0.10	NA	
	0761	Dark gray	10/26/95	A2	0.1	4.9	NA	Edge of excavation.
	0249	Dark gray	8/30/95	A5	0.5	4.2	NA	
	0251	Dark gray	8/30/95	A5	1.0	2.2	NA	
	0252	Dark gray	8/30/95	A5	2.0	1.2	NA	
	0253	Dark gray	8/30/95	A5	3.0	1.6	NA	
	0332	Dark gray	9/5/95	A5	0.5	2.9	NA	Post-Excavation Sample
	0756	Dark gray	10/26/95	A5	0.1	150	NA	
	0875	Dark gray	10/31/95	A5	1.1	<0.10	NA	Augered.

Table I

Figure 5 Sample Location Number	Sample Number	Color Code (see Figure 5)	Sample Date	Grid Location (see Figure 4)	Max. Sample Depth (feet)	PCB Conc. (ppm)	PCE Conc. (ppm)	Comments
	0881	Dark gray	10/31/95	A5	2.2	5.8	NA	Augered. Refusal at 2.9 ft.
	0231	Dark gray	8/31/95	A6	0.5	15	<0.05	
	0232	Dark gray	8/31/95	A6	1.0	0.25	<0.05	
	0233	Dark gray	8/31/95	A6	2.0	<0.10	<0.05	
	0234	Dark gray	8/31/95	A6	2.5	6.5	<0.05	Refusal at 2.5 feet
	0331	Dark gray	9/5/95	A6	0.5	30	NA	Post-Excavation Sample. Possible cross-contamination
	0319	Dark gray	9/5/95	A7	1.0	29	NA	
	0320	Dark gray	9/5/95	A7	2.0	<0.10	NA	
	0322	Dark gray	9/5/95	A7	0.5	36	NA	
	0279	Dark gray	9/12/95	A7	0.33	169	NA	Re-sample at this location.
	0280	Dark gray	9/12/95	A7	0.33	155	NA	Field duplicate of 0279
	0755	Dark gray	10/26/95	A7	0.1	9.4	NA	South end of excation on mesa-top
	0987	Dark gray	12/7/95	A7	0.25	<0.05	NA	West slope- post vacuum
	0100	Dark gray	8/24/95	B1	0.5	4.5	<0.05	
	0265	Dark gray	8/30/95	B1	1.0	5.1	NA	
	0266	Dark gray	8/30/95	B1	2.0	21	NA	
	0267	Dark gray	8/30/95	B1	3.0	0.8	NA	
	0268	Dark gray	8/30/95	B1	4.0	<0.10	NA	
	0976	Dark gray	12/4/95	B1	0.25	0.1	NA	Compacted fill. Area has been vacuumed and swept, but not down to tuff.
	0394	Dark gray	9/15/95	B12	0.5	0.39	<0.05	
	0395	Dark gray	9/15/95	B12	0.9	<0.10	<0.05	Refusal at 0.9 feet.
	0102	Dark gray	8/24/95	B2	0.5	3.3	<0.05	
	0248	Dark gray	8/30/95	B3	0.5	0.15	NA	
	0256	Dark gray	8/30/95	B3	1.0	<0.10	NA	
	0257	Dark gray	8/30/95	B3	2.0	<0.10	NA	Refusal at 2 feet
	0977	Dark gray	12/4/95	B3	0.25	5.6	NA	Area swept, but not vacuumed. Fill material.
	0121	Dark gray	8/28/95	B5	0.5	3.3	NA	
	0302	Dark gray	9/5/95	B5	0.5	0.32	<0.05	
	0964	Dark gray	11/30/95	B5	0.25	199	NA	Collected loose material after area was vacumed with large hose.
	0966	Dark gray	12/1/95	B5	0.25	99	NA	Soil and crushed tuff
	0303	Dark gray	9/5/91	B6	0.5	4.8	0.296	
	0158	Dark gray	8/31/95	B7	0.5	38	<0.05	
	0159	Dark gray	8/31/95	B7	1.0	1.3/<0.10	<0.05	
	0160	Dark gray	8/31/95	B7	1.8	<0.10	0.34	Refusal at 1.8 feet
	0306	Dark gray	9/5/95	B7	0.5	234	NA	Resample this location.
	0118	Dark gray	8/25/95	B8	0.5	3.7	NA	Sampled prior to excavation in this area.
	0259	Dark gray	8/30/95	B8	0.5	6.8	NA	Refusal at 0.5 feet. Sampled prior to excavation.
	0247	Dark gray	8/30/95	B9	0.5	0.8	NA	Sampled prior to excavation in this area.
	0762	Dark gray	10/26/95	B9	0.1	14	NA	
	0985	Dark gray	12/5/95	B9	0.25	1.02	NA	Soil and soft, weathered tuff
	0107	Dark gray	8/24/95	C1	0.5	3640	NA	
	0355	Dark gray	9/12/95	C10	0.25	0.39	NA	
	0356	Dark gray	9/12/95	C11	0.3	1.7	NA	
	0717	Dark gray	10/3/95	C11.A	0.25	2.2	NA	Located between C11 and D11.
	0402	Dark gray	9/15/95	C12	1.0	<0.10	<0.05	Refusal at 1.0 feet.
	0411	Dark gray	9/15/95	C12	0.5	1.9	0.15	
	0105	Dark gray	8/24/95	C2	0.5	21	NA	
	0758	Dark gray	10/26/95	C2	0.1	4.9	NA	
	0106	Dark gray	8/24/95	C4	0.5	2.7	NA	
	0258	Dark gray	8/30/95	C4	0.5	1.7	NA	Refusal at 0.5 feet
	0759	Dark gray	10/26/95	C4	0.1	74	NA	

Table I

Figure 5 Sample Location Number	Sample Number	Color Code (see Figure 5)	Sample Date	Grid Location (see Figure 4)	Max. Sample Depth (feet)	PCB Conc. (ppm)	PCE Conc. (ppm)	Comments
	0878	Dark gray	10/31/95	C4	0.6	<0.10	NA	Chip sample of tuff surface
	0753	Dark gray	10/26/95	C5	0.1	370	NA	Former location of fir tree.
	0876	Dark gray	10/31/95	C5	0.25	1.4	NA	Chip sample of tuff surface
	0304	Dark gray	9/5/95	C6	0.1	1810	<0.05	
	0305	Dark gray	9/5/95	C7	0.1	6.8	<0.05	
	0754	Dark gray	10/26/95	C7	0.1	180	NA	Mesa-top location. Near edge of asphalt.
	0872	Dark gray	10/31/95	C7	0.5	14/5.5	NA	Augered. Refusal at 0.5 ft. Sample taken in tuff.
	0961	Dark gray	11/30/95	C7	0.25	5.72	NA	Chip sample of exposed tuff. High traffic area.
	0113	Dark gray	8/25/95	C8	0.5	1.6	NA	
	0246	Dark gray	8/30/95	C9	0.5	0.59	NA	
	0260	Dark gray	8/30/95	C9	0.7	1.6	NA	Refusal at 0.7 feet
	0707	Dark gray	10/26/95	C9	0.1	240	NA	Surface sample. Approx. 0.1 ft. of pulverized tuff on bedrock.
	0879	Dark gray	10/31/95	C9	0.33	<0.10	NA	Chip sample of tuff surface
	0336	Dark gray	9/6/95	D10	0.5	1100	NA	
	0361	Dark gray	9/21/95	D11	0.5	182/91	NA	
	0709	Dark gray	10/26/95	D11	0.1	340	NA	Near toe of slope.
	0880	Dark gray	10/31/95	D11	0.33	<0.10	NA	Chip sample of tuff surface
	0718	Dark gray	10/3/95	D11.A	0.25	650	NA	Located between D11 and E11.
	0108	Dark gray	8/24/95	D2	0.5	20	NA	
	0967	Dark gray	12/1/95	D2	0.25	1.13	NA	Crushed tuff
	0104	Dark gray	8/24/95	D3	0.5	13	<0.05	
	0270	Dark gray	8/30/95	D3	1.0	280/153	NA	
	0271	Dark gray	8/30/95	D3	1.5	990	NA	Refusal at 1.5 feet
	0978	Dark gray	12/4/95	D4	0.25	1.7	NA	Very soft, weathered tuff.
	0979	Dark gray	12/4/95	D4	0.25	1.3	NA	FD of 0978.
	0122	Dark gray	8/28/95	D5	0.5	<0.10	NA	
	0307	Dark gray	9/5/95	D6	0.5	416	NA	
	0963	Dark gray	11/30/95	D6	0.25	145	NA	Loose material and pulverized tuff.
	0114	Dark gray	8/25/95	D8	0.5	33	NA	
	0245	Dark gray	8/30/95	D9	0.5	117	NA	
	0983	Dark gray	12/5/95	D9	0.25	8.2	NA	Crushed tuff. Very hard. Sample may contain some compacted soil. Swept area.
	0298	Dark gray	9/1/95	E1	0.5	21	<0.05	
	0314	Dark gray	9/5/95	E1	0.5	143	NA	
	0337	Dark gray	9/6/95	E10	0.5	68/28	NA	
	0984	Dark gray	12/5/95	E10	0.25	0.05	NA	Crushed tuff. Very hard.
	0716	Dark gray	10/3/95	E11	0.25	14	NA	Collected at lip of earthen berm just above the water.
	0680	Dark gray	10/6/95	E12	1.0	<0.10	0.47	Peeled back asphalt. No surface sample due to possible asphalt contamination. Need to clean off area (excavate <0.5 ft.)
	0760	Dark gray	10/26/95	E2	0.1	2.7	NA	
	0970	Dark gray	12/1/95	E3	0.25	<0.05	NA	Crushed tuff
	0980	Dark gray	12/4/95	E3	0.25	0.098	NA	Lightly compacted fill. Area has been vacuumed with large hose and swept. Needs to be vacuumed with small hose.
	0103	Dark gray	8/24/95	E4	0.5	167	<0.05	
	0272	Dark gray	8/30/95	E4	0.8	15560	NA	Refusal at 0.8 feet
	0237	Dark gray	9/8/95	E4	0.7	2060	<0.05	Resample with VOCs. Refusal at 0.7 ft.
	0110	Dark gray	8/24/95	E5	0.5	31	NA	
	0111	Dark gray	8/24/95	E5	0.5	4.5	NA	Field duplicate of 0110. Sample not homoginized
	0123	Dark gray	8/28/95	E5	0.08	15	NA	

Table I

Figure 5 Sample Location Number	Sample Number	Color Code (see Figure 5)	Sample Date	Grid Location (see Figure 4)	Max. Sample Depth (feet)	PCB Conc. (ppm)	PCE Conc. (ppm)	Comments
	0297	Dark gray	9/1/95	E5	0.5	25	<0.05	
	0309	Dark gray	9/5/95	E5	0.5	12	NA	
	0752	Dark gray	10/26/95	E5	0.1	290	NA	Upper slope, middle of excav.
	0877	Dark gray	10/31/95	E5	0.25	<0.10	NA	Chip sample of tuff surface
	0958	Dark gray	11/30/95	E5	0.25	0.14	NA	Chip sample off of tuff surface. Tuff is moderately welded, difficult to chip.
	0296	Dark gray	9/1/95	E6	0.1	<0.10	<0.05	Scraped tuff sample
	0308	Dark gray	9/5/95	E6	0.5	31	NA	Possible cross-contamination.
	0750	Dark gray	10/26/95	E7	0.1	690	NA	Edge of asphalt.
	0870	Dark gray	10/31/95	E7	1.2	<0.10	NA	Augered.
	0871	Dark gray	10/31/95	E7	1.6	<0.10	NA	Augered. Refusal at 1.6 ft.
	0959	Dark gray	11/30/95	E7	0.25	108	NA	Located at edge of excavation in area that has not been well vacuumed. Loose surface material. Overburden thickness = 0.25 ft.
	0960	Dark gray	11/30/95	E7	0.25	118	NA	Field Duplicate of 0103-95-0960
	0115	Dark gray	8/25/95	E8	0.5	180	NA	
	0982	Dark gray	12/5/95	E8	0.25	4.4	NA	Crushed tuff. Hard. Area swept.
	0244	Dark gray	8/30/95	E9	0.5	191	NA	
	0261	Dark gray	8/30/95	E9	0.6	1029	NA	Refusal at 0.6 feet
	0708	Dark gray	10/26/95	E9	0.1	260	NA	
	0882	Dark gray	10/31/95	E9	0.3	0.49	NA	Chip sample of tuff surface
	0968	Dark gray	12/1/95	F1	0.25	3.4	NA	Crushed tuff
	0338	Dark gray	9/6/95	F10	0.5	58	NA	
	0719	Dark gray	10/3/95	F11	0.25	1.6	NA	Collected in cut bank approx. 4 inches below grade and below grass root zone. Just below effluent pipe.
	0109	Dark gray	8/24/95	F2	0.5	1600	<0.05	
	0269	Dark gray	8/30/95	F2	0.6	7000	NA	
	0975	Dark gray	12/4/95	F2	0.25	16.7	NA	Crushed tuff.
	0116	Dark gray	8/25/95	F4	0.5	33000	NA	
	0695	Dark gray	10/26/95	F4	0.1	6600	NA	Base of steep cut at north end of exc. Location of 33K hit.
	0765	Dark gray	10/26/95	F4	0.1	9200	NA	FD of 0695.
	0888	Dark gray	11/1/95	F4	1.16	4.1	NA	Chip sample of tuff surface
	0889	Dark gray	11/1/95	F4		4.6	NA	FD of 0103-95-0888.
	0890	Dark gray	11/1/95	F4	1.92	1.4	NA	Composited from 0.5 to 0.92 ft below tuff surface.
	0981	Dark gray	12/5/95	F4	0.25	>600	NA	Compacted soil and highly weathered tuff.
	0112	Dark gray	8/24/95	F5	0.5	2	NA	
	0124	Dark gray	8/28/95	F5	0.08	<0.10	NA	
	0300	Dark gray	9/1/95	F5	0.5	76	NA	
	0301	Dark gray	9/1/95	F6	0.1	0.16	<0.05	
	0310	Dark gray	9/5/95	F6	0.5		NA	Held by chem van. Already sampled this location - exceeded holding times.
	0311	Dark gray	9/5/95	F6	0.5		NA	Field duplicate of 0310. Held by chem van.
	0962	Dark gray	11/30/95	F6	0.25	0.62	NA	Highly weathered tuff broke apart easily. Sample may contain some fill material.
	0380	Dark gray	9/8/95	F7	0.25	2.3	<0.01	
	0381	Dark gray	9/8/95	F7	1.0	<0.10	<0.05	
	0342	Dark gray	9/6/95	F8	0.25	990	NA	
	0243	Dark gray	8/30/95	F9	0.5	18	NA	
	0299	Dark gray	9/1/95	G1	0.5	3.8	NA	
	0971	Dark gray	12/4/95	G1	0.25	452	NA	Overburden just below top of mesa. Area still needs to be vacuumed.
	1005	Dark gray	12/13/95	G1	0.25	2.7	NA	Resample after vacuuming.
	0339	Dark gray	9/6/95	G10	0.25	47	NA	

Table I

Figure 5 Sample Location Number	Sample Number	Color Code (see Figure 5)	Sample Date	Grid Location (see Figure 4)	Max. Sample Depth (feet)	PCB Conc. (ppm)	PCE Conc. (ppm)	Comments
	0681	Dark gray	10/6/95	G12	0.2	27.4	NA	Surface sample.
	0682	Dark gray	10/6/95	G12	1.0	<0.10	NA	
	0683	Dark gray	10/6/95	G12	1.6	<0.10	NA	Refusal at 1.6 feet.
	0119	Dark gray	8/25/95	G2	0.5	100	NA	
	0757	Dark gray	10/26/95	G2	0.1	8400	NA	
	0886	Dark gray	11/1/95	G2	0.47	4.6	NA	Chip sample of tuff surface
	0887	Dark gray	11/1/95	G2	1.75	0.75	NA	Composited from 0.5 to 0.83 ft. below tuff surface
	0969	Dark gray	12/1/95	G2	0.25	0.14	NA	Crushed tuff
	0973	Dark gray	12/4/95	G3	0.25	0.66	NA	Soft, weathered tuff
	0117	Dark gray	8/25/95	G4	0.5	91	NA	
	0974	Dark gray	12/4/95	G4	0.25	1.58	NA	Very soft weathered tuff.
	0313	Dark gray	9/5/95	G5	0.5	4.7	NA	
	0316	Dark gray	9/5/95	G5	0.5	3.2	NA	Field duplicate of 0313.
	0751	Dark gray	10/26/95	G5	0.1	700	NA	
	0884	Dark gray	10/31/95	G5	0.5	414	NA	Chip sample of tuff surface
	0922	Dark gray	11/1/95	G5	0.5	110	NA	Re-sample
	0939	Dark gray	11/3/95	G5	0.8	100	NA	Hand auger. Sampled 0.33 to 0.5 ft. below tuff surf.
	0940	Dark gray	11/3/95	G5	1.5	200	NA	Hand auger. Sampled 1.0 to 1.16 ft. below tuff surf.
	0941	Dark gray	11/3/95	G5	2.3	2.7	NA	Hand auger. Sampled 1.75 to 2.0 ft. below tuff surf.
	0946	Dark gray	11/8/95	G5-A	1.0	208	NA	Edge of mesa. Sample collected 1 ft. below top of overburden in sidewall of excavated trench.
	0948	Dark gray	11/8/95	G5-A	2.0	209	NA	Sample collected 2 ft. below top of overburden in sidewall of excavated trench.
	0950	Dark gray	11/8/95	G5-A	3.0	0.08	NA	Hand augered through bottom of trench. Tuff surface at 2.4 ft. Collected sample 0.4 to 0.6 ft. below tuff surface.
	0925	Dark gray	11/8/95	G5-B	0.58	<0.05	NA	Chip sample of tuff surface.
	0926	Dark gray	11/8/95	G5-B	0.91	<0.05	NA	Hand augered into tuff.
	0927	Dark gray	11/8/95	G5-B	1.6	<0.05	NA	Hand augered into tuff.
	0923	Dark gray	11/8/95	G5-C	0.5	0.08	NA	Chip sample of tuff surface
	0924	Dark gray	11/8/95	G5-C	0.83	0.09	NA	Hand augered into tuff. Refusal at 0.83 ft.
	0945	Dark gray	11/8/95	G5-C	1.5	<0.05	NA	Chip sample. Chiseled beyond bottom of hand augered hole.
	0947	Dark gray	11/8/95	G5-D	1.08	3.35	NA	Chip sample of tuff surface
	0949	Dark gray	11/8/95	G5-D	2.1	1.98	NA	Hand augered into tuff. Refusal at 2.2 feet.
	0235	Dark gray	8/31/95	G6	0.5	12	<0.05	
	0236	Dark gray	8/31/95	G6	0.8	4	<0.05	Refusal at 0.8 feet
	0382	Dark gray	9/8/95	G7	0.3	2.2	<0.01	Surface Sample
	0383	Dark gray	9/8/95	G7	1.0	<0.10	<0.05	
	0384	Dark gray	9/8/95	G7	2.0	3.8	<0.05	
	0764	Dark gray	10/26/95	G7	0.1	820	NA	Mesa top. East edge of excavation.
	0873	Dark gray	10/31/95	G7	1.0	3.6	NA	Augered.
	0874	Dark gray	10/31/95	G7	1.6	15	NA	Augered. Refusal at 1.6 ft.
	0242	Dark gray	8/30/95	G9	0.5	12	NA	
	0262	Dark gray	8/30/95	G9	0.6	2.4	NA	Refusal at 0.6 feet
	0763	Dark gray	10/26/95	G9	0.1	5.8	NA	North edge of slope near effluent pipes.
	0373	Dark gray	9/7/95	H1	0.5	325	<0.01	Surface sample
	0374	Dark gray	9/7/95	H1	1.0	3.8	<0.01	
	0375	Dark gray	9/7/95	H1	2.0	0.55	<0.01	

Table I

Figure 5 Sample Location Number	Sample Number	Color Code (see Figure 5)	Sample Date	Grid Location (see Figure 4)	Max. Sample Depth (feet)	PCB Conc. (ppm)	PCE Conc. (ppm)	Comments
	0376	Dark gray	9/7/95	H1	3.0	1.2	<0.01	
	0276	Dark gray	9/12/95	H1	0.33	18	NA	Re-sample at this location.
	0741	Dark gray	10/25/95	H1	0.1	42.2	NA	
	0883	Dark gray	10/31/95	H1	0.5	<0.10	NA	Chip sample of tuff surface
	0956	Dark gray	11/30/95	H1	0.25	<0.05	NA	Chip sample off of tuff surface. Tuff is moderately welded and difficult to chip.
	0239	Dark gray	8/30/95	H2	0.5	3.4	NA	
	0240	Dark gray	8/30/95	H3	0.5	5.8	NA	
	0972	Dark gray	12/4/95	H3	0.25	2403	NA	Thin overburden near H3.
	0404	Dark gray	9/18/95	H6	0.25	14	<0.05	Hard packed gravel surface.
	0405	Dark gray	9/18/95	H6	1.0	0.17	<0.05	
	0406	Dark gray	9/18/95	H6	2.0	<0.10	<0.05	Difficult augering, but can go deeper.
	0341	Dark gray	9/6/95	H9	0.25	<0.10	NA	
	0281	Dark gray	9/7/95	I1	2.5	1.6	NA	
	0377	Dark gray	9/7/95	I1	0.5	27.0	<0.01	Surface sample
	0378	Dark gray	9/7/95	I1	1.0	1.2	<0.01	
	0379	Dark gray	9/7/95	I1	2.0	<0.10	<0.01	
	0277	Dark gray	9/12/95	I1	0.33	11	NA	Re-sample at this location.
	0740	Dark gray	10/25/95	I1	0.1	25.6	NA	Newly excavated area. Inside fence.
	0868	Dark gray	10/31/95	I1	1.0	<0.10	NA	Augered. Penetrated 0.16 ft. into tuff.
	0744	Dark gray	10/25/95	I2	0.1	27.1	NA	
	0362	Dark gray	9/21/95	J1	0.33	2.9	NA	
	0955	Dark gray	11/30/95	J1	0.25	0.56	NA	Chip sample off of tuff surface. Tuff is loose and very poorly welded. Friable.
	0363	Dark gray	9/21/95	J2	0.25	7.7	NA	
	0957	Dark gray	11/30/95	J2	0.25	0.32	NA	Collected along fenceline just inside of vacuumed area. Weathered tuff easily chipped and crushed.
	0400	Dark gray	9/18/95	J5	0.33	8.4	<0.05	Adjacent to transformer storage area.
	0401	Dark gray	9/18/95	J5	1.0	<0.10	<0.05	
	0403	Dark gray	9/18/95	J5	1.8	0.21	<0.05	Refusal at 1.8 feet.
	0742	Dark gray	10/25/95	J5	0.1	11.8	NA	
	0869	Dark gray	10/31/95	J5	0.9	<0.10	NA	Augered. Refusal at 0.83 ft.
	0283	Dark gray	9/7/95	K1	0.5			Broken sample jar; not submitted
	0385	Dark gray	9/8/95	K1	1.0	<0.10	<0.01	Edge of transformer storage area
	0416	Dark gray	9/19/95	K1	0.25	4.7/2.6	<0.05	Surface sample. Replaces lost sample.
	0743	Dark gray	10/25/95	K1	0.2	13.3	NA	
	0498	Dark gray	9/25/95	K12	0.2	0.35/1.5	NA	Middle of former transformer storage area.
	0703	Dark gray	10/26/95	SB-C	0.5	<0.10	NA	Stream bank sample on C-line. Freshly cut area.
	0704	Dark gray	10/26/95	SB-D	0.5	74	NA	Stream bank sample on D-line. 10 feet downstream of SB-C.
	0705	Dark gray	10/26/95	SB-E	0.5	0.44	NA	Stream bank sample on E-line.
	0706	Dark gray	10/26/95	SB-F	0.5	2.4	NA	Steam bank sample. ~10 downstream of SB-E. Under south effluent pipe.
	0120	Dark gray	8/25/95	ZZ1	0.5	0.2	NA	
	0291	Dark gray	8/31/95	ZZ1	1.0	<0.10	<0.05	
	0292	Dark gray	8/31/95	ZZ1	1.9	<0.10	<0.05	Refusal at 1.9 feet
	0665	Dark gray	10/4/95	ZZ12	0.2	0.41	<0.05	
	0666	Dark gray	10/4/95	ZZ12	1.0	<0.10	<0.05	
	0667	Dark gray	10/4/95	ZZ12	1.4	<0.10	<0.05	Refusal at 1.4 feet.
	0408	Dark gray	9/15/95	ZZ7	0.33	5.4	<0.05	
	0409	Dark gray	9/15/95	ZZ7	1.0	<0.10	<0.05	

Table I

Figure 5 Sample Location Number	Sample Number	Color Code (see Figure 5)	Sample Date	Grid Location (see Figure 4)	Max. Sample Depth (feet)	PCB Conc. (ppm)	PCE Conc. (ppm)	Comments
	0410	Dark gray	9/15/95	ZZ7	2.0	<0.10	56	
Data From Sample Locations That Have Been Excavated North Slope (excavated sample locations are represented by the light gray shaded area in Figure 5)								
				(This section is sorted by Grid Number)				
	0766	Light gray	10/27/95	3-056-AI	1.0	1.6	NA	FD of 0103-95-0849
	0848	Light gray	10/27/95	3-056-AI	0.2	65	NA	
	0849	Light gray	10/27/95	3-056-AI	1.0	2.3	NA	
	0850	Light gray	10/27/95	3-056-AI	2.0	<0.10	NA	
	0851	Light gray	10/27/95	3-056-AI	3.0	<0.10	NA	
	0711	Light gray	10/27/95	3-056-AJ	0.5	4.5	NA	Approx. 8 ft. E-NE of N4. West bank of drainage channel. 6 in. below top of cut bank.
	0932	Light gray	11/2/95	3-056-AK	0.1	<0.10	NA	Ridge sample. 18 feet N. of L8.
	0931	Light gray	11/2/95	3-056-AL	0.1	<0.10	NA	West edge of ridge. ~50 ft. N. of L8.
	0679	Light gray	10/4/95	J3	0.25	16	NA	Surface sample only.
	0989	Light gray	12/7/95	J3	0.25	144	NA	North slope. Post-vacuum.
	0720	Light gray	10/3/95	J4	0.25	1.1	NA	Surface sample.
	0721	Light gray	10/3/95	K2	0.25	7.4	NA	Surface sample.
	0561	Light gray	9/29/95	K3	0.25	150/81	NA	Refusal at 0.5 feet.
	0988	Light gray	12/7/95	K3	0.25	106	NA	North slope. Post-vacuum.
	0928	Light gray	11/2/95	K4a	0.25	69	NA	Ridge sample.
	0930	Light gray	11/2/95	L2	0.2	22	NA	Head of small drainage on N. slope.
	0723	Light gray	10/3/95	L4	0.25	85	NA	Surface sample.
	0724	Light gray	10/3/95	L4	0.25	76	NA	FD of 1013-95-0723
	0929	Light gray	11/2/95	L8	0.15	3	NA	Ridge sample. West edge of ridge.
	0437	Light gray	9/21/95	M1	0.5	1.5	NA	1 foot from edge of drainage channel.
	0438	Light gray	9/21/95	M1	1.0	3.7	NA	
	0439	Light gray	9/21/95	M1	2.0	1.6	NA	
	0440	Light gray	9/21/95	M1	3.0	1.3	NA	
	0348	Light gray	9/21/95	M2	0.5	1.1	NA	Located in drainage and small catchment.
	0349	Light gray	9/21/95	M2	1.0	<0.10	NA	
	0350	Light gray	9/21/95	M2	2.0	<0.10	NA	
	0351	Light gray	9/21/95	M2	3.0	<0.10	NA	
	0352	Light gray	9/21/95	M2	4.0	<0.10	NA	
	0900	Light gray	11/1/95	M3	0.2	<0.10	NA	Surface sample.
	0918	Light gray	11/1/95	M3	1.0	1.0/0.64	NA	
	0919	Light gray	11/1/95	M3	2.1	<0.10	NA	
	0920	Light gray	11/1/95	M3	3.0	<0.10	NA	
	0921	Light gray	11/1/95	M3	3.0	<0.10	NA	
	0710	Light gray	10/27/95	M4	0.5	160	NA	Base of rock wall. Soil is 0.5 ft. thick.
	0937	Light gray	11/2/95	M5	0.05	2.9	NA	Middle of main drainage. May be very little overburden at this location.
	0938	Light gray	11/2/95	M5	0.05	3.4	NA	FD of 0103-95-0937
	0895	Light gray	11/1/95	N1	0.2	0.47	NA	Surface sample. Near large fir tree.
	0896	Light gray	11/1/95	N1	1.1	160/40	NA	
	0897	Light gray	11/1/95	N1	2.1	1.5	NA	
	0898	Light gray	11/1/95	N1	3.1	<0.10	NA	
	0846	Light gray	10/27/95	N2	0.2	11	NA	Near drainage channel.
	0847	Light gray	10/27/95	N2	0.6	8.3	NA	Refusal at 0.6 ft.
	0722	Light gray	10/3/95	N3	0.25	0.57	NA	Located in middle of drainage channel.
	0746	Light gray	10/27/95	N3	0.2	7.8	NA	Catchment in drainage channel.

Table I

Figure 5 Sample Location Number	Sample Number	Color Code (see Figure 5)	Sample Date	Grid Location (see Figure 4)	Max. Sample Depth (feet)	PCB Conc. (ppm)	PCE Conc. (ppm)	Comments
	0747	Light gray	10/27/95	N3	1.0	0.33	NA	
	0748	Light gray	10/27/95	N3	2.0	<0.10	NA	
	0749	Light gray	10/27/95	N3	3.0	<0.10	NA	
	0452	Light gray	9/22/95	N4	0.3	60/32	NA	Located 3 to 4 feet from drainage channel. Originally labeled as M4. Re-labeled after checking grid.
	0712	Light gray	10/27/95	N4	0.25	81	NA	
	0713	Light gray	10/27/95	N4	1.0	0.67	NA	
	0714	Light gray	10/27/95	N4	2.0	2.7	NA	
	0745	Light gray	10/27/95	N4	3.0	<0.10	NA	Collected at soil/tuff interface.
	0933	Light gray	11/2/95	N5	0.2	27	NA	
	0934	Light gray	11/2/95	N5	1.3	19	NA	
	0935	Light gray	11/2/95	N5	2.3	<0.10	NA	
	0936	Light gray	11/2/95	N5	3	<0.10	NA	Powdery tuff.
	0996	Light gray	12/12/95	N5	0.25	1.3	NA	North slope. Post-vacuum.
	0562	Light gray	9/29/95	N6	0.25	4	<0.05	Refusal at 0.25 ft. Tuff or boulders everywhere in vicinity. Acetone as lab contaminant in sample.
	0453	Light gray	9/22/95	N6	0.2	4.2	NA	In drainage channel, 4 ft. from fence.
	0860	Light gray	10/31/95	O1	0.2	15	NA	Surface sample
	0862	Light gray	10/31/95	O1	1.1	10	NA	
	0863	Light gray	10/31/95	O1	2.1	850	NA	
	0864	Light gray	10/31/95	O1	3.1	9.9	NA	
	0998	Light gray	12/12/95	O1	0.25	<0.05	NA	North slope. Post-vacuum.
	0343	Light gray	9/21/95	O2	0.5	16	NA	3 feet from edge of drainage channel.
	0344	Light gray	9/21/95	O2	1.0	1090/360	NA	
	0345	Light gray	9/21/95	O2	2.0	2.1	NA	
	0346	Light gray	9/21/95	O2	3.0	<0.10	NA	
	0347	Light gray	9/21/95	O2	4.0	1.2	NA	
	0997	Light gray	12/12/95	O2	0.25	0.05	NA	North slope. Post-vacuum.
	0861	Light gray	10/31/95	O3	0.2	7.7	NA	Surface sample
	0865	Light gray	10/31/95	O3	1	6.8	NA	
	0866	Light gray	10/31/95	O3	2	0.7	NA	
	0867	Light gray	10/31/95	O3	3	<0.10	NA	
	0891	Light gray	11/1/95	O4	0.2	2.4	NA	Surface sample. Under small tree.
	0892	Light gray	11/1/95	O4	1.0	2.2	NA	
	0893	Light gray	11/1/95	O4	2.1	5.3	NA	
	0894	Light gray	11/1/95	O4	3.0	2.2	NA	
	0899	Light gray	11/1/95	O5	0.2	7.6	NA	Surface sample.
	0916	Light gray	11/1/95	O5	0.8	2.7	NA	
	0917	Light gray	11/1/95	O5	2.0	0.13	NA	
	0487	Light gray	9/25/95	P1	0.25	0.18	NA	Surface sample.
	0563	Light gray	9/29/95	P1	1.0	<0.10	<0.05	Refusal at 1 ft. Deepest penetration out of four attempts. Acetone as lab contaminant in sample.
	0454	Light gray	9/22/95	P14	0.25	<0.10	NA	In drainage channel, 5 ft. from fence. Sampled in sidewall of erosional cut. Originally labeled as R15. Re-labeled after checking grid.
	0856	Light gray	10/31/95	P2	0.2	<0.10	NA	Edge of small drainage.
	0857	Light gray	10/31/95	P2	1	2.2	NA	
	0858	Light gray	10/31/95	P2	2	<0.10	NA	
	0859	Light gray	10/31/95	P2	3	<0.10	NA	
	0564	Light gray	9/29/95	P5	0.25	0.81	<0.05	Acetone as lab contaminant.
	0565	Light gray	9/29/95	P5	1.0	<0.10	<0.05	
	0566	Light gray	9/29/95	P5	2.0	<0.10	<0.05	Refusal at 2.0 ft. Difficult augering beyond 1.8 feet.

Table I

Figure 5 Sample Location Number	Sample Number	Color Code (see Figure 5)	Sample Date	Grid Location (see Figure 4)	Max. Sample Depth (feet)	PCB Conc. (ppm)	PCE Conc. (ppm)	Comments
Data From Sample Locations Remaining at PRS 3-056(c)								
West Slope & Mesa Top (sample locations depicted on Figure 5)								
(This section is sorted by the sample location number)								
1	0458		9/23/95	J17	0.33	<0.10	NA	Outside exclusion zone near debris pile. Refusal at 0.33 feet.
2	0459		9/23/95	N16	0.5	0.64	NA	Located outside exclusion zone - 4 ft from equipment shed.
2	0460		9/23/95	N16	1.0	7.3/<0.10	NA	Refusal at 1.2 feet.
2	0462		9/23/95	N16	0.5	0.49	NA	FD of 0103-95-0459.
3	0457		9/23/95	G16	0.25	3.4/0.5	NA	Refusal at 0.3 feet. Five feet outside of exclusion zone. 10 ft. from edge of pavement.
4	0364		9/21/95	K7	0.25	0.23	NA	Middle of current transformer storage area.
4	0557		9/26/95	K7	1.0	3.4	<0.05	
4	0558		9/26/95	K7	2.0	7.3	<0.05	Refusal at 2 feet.
10	0278		9/12/95	ZZ6	0.33	3.3	NA	Re-sample at this location.
10	0317		9/5/95	ZZ6	1.0	0.10	NA	
10	0318		9/5/95	ZZ6	2.0	0.43	NA	
10	0321		9/5/95	ZZ6	0.5	8.4	NA	
11	0293		8/31/95	ZZ5	0.5	0.3	<0.05	
11	0294		8/31/95	ZZ5	1.0	<0.10	<0.05	
11	0295		8/31/95	ZZ5	2.0	<0.10	<0.05	Refusal at 2.0 feet
12	0431		9/22/95	YY6	0.2	3.9	NA	
12	0432		9/22/95	YY6	1.0	<0.10	NA	
12	0433		9/22/95	YY6	2.0	<0.10	NA	
12	0434		9/22/95	YY6	2.8	<0.10	NA	Refusal at 2.8 feet.
13	0427		9/22/95	XX7	0.25	<0.10	NA	
13	0428		9/22/95	XX7	1.0	<0.10	NA	
13	0429		9/22/95	XX7	2.0	<0.10	NA	
13	0430		9/22/95	XX7	3.0	<0.10	NA	
14	0484		9/23/95	XX1	0.25	0.14	NA	Edge of mesa.
15	0461		9/23/95	XX2	0.25	<0.10	NA	Surface sample on steep slope west of excavation.
16	0483		9/23/95	YY3	0.25	0.23	NA	Very steep slope.
21	0358		9/21/95	C13	0.25	0.34	NA	Surface sample, west stream bank, across stream from site.
22	0357		9/21/95	B13	0.25	<0.10	NA	Surface sample, west stream bank, across stream from site.
23	0359		9/21/95	D13	0.25	0.32	NA	Surface sample, west stream bank, across stream from site.
25							NA	Survey point for west end of effluent pipe
26	0312		9/6/95	H8	0.5	1.8	NA	FD of 0103-95-0340. Homogenized in stainless steel bowl
26	0340		9/6/95	H8	0.5	1.7	NA	
27	0241		8/30/95	H4	0.5	0.22	NA	
27	0263		8/30/95	H4	1.0	<0.10	NA	
27	0264		8/30/95	H4	2.0	<0.10	NA	Refusal at 2 feet
29							NA	pipe
30							NA	No sample this location.
74	0687		10/6/95	L6	0.25	1.7	NA	Surface sample
74	0688		10/6/95	L6	1.0	2.8	NA	
74	0689		10/6/95	L6	2.0	0.5	NA	
74	0690		10/6/95	L6	3.0	4.4	NA	Refusal at 3.2 feet
81	0715		10/3/95	A11	0.25	0.19	<0.05	SW end of earthen berm under straw bales.
82	0360		9/21/95	B11	0.5	0.52	NA	Surface sample, east stream bank.

Table I

Figure 5 Sample Location Number	Sample Number	Color Code (see Figure 5)	Sample Date	Grid Location (see Figure 4)	Max. Sample Depth (feet)	PCB Conc. (ppm)	PCE Conc. (ppm)	Comments
87	0684		10/6/95	I12	0.2	0.6	NA	Surface sample
87	0685		10/6/95	I12	1.0	<0.10	NA	
87	0686		10/6/95	I12	1.6	<0.10	NA	Refusal at 1.7 feet
102	0986		12/7/95	A5	0.3	<0.05	NA	
Data From Sample Locations Remaining at PRS 3-056(c)								
North Slope (sample locations depicted on Figure 5)								
(This section is sorted by the sample location number)								
39	0449		9/22/95	3-056-I	0.2	4.3	NA	Located in drainage channel. Shallow sediment.
40	0448		9/22/95	3-056-H	0.25	2.4	NA	Located in drainage channel
41	0450		9/22/95	3-056-J	0.2	<0.10	NA	
42	0471		9/23/95	3-056-M	0.25	<0.10	NA	Next to ridge; 20 feet west of 3-056-I.
43	0446		9/22/95	3-056-F	0.2	2.7	NA	Located in drainage channel.
44	0447		9/22/95	3-056-G	0.2	0.16	NA	Located in old drainage channel.
45	0445		9/22/95	3-056-E	0.25	5.9/3.2	NA	Located in drainage channel.
46	0472		9/23/95	3-056-N	0.2	<0.10	NA	N. edge of berm surrounding evap. ponds.
47	0441		9/22/95	3-056-A	0.25	4.3	NA	Located in main drainage channel.
48	0481		9/23/95	3-056-W	0.25	<0.10	NA	On west side of ridge.
49	0482		9/23/95	3-056-X	0.25	0.29	NA	70 feet downstream of steam pipes. Steam bank sample.
50	0282		9/7/95	K4	0.5	<0.10	NA	Surface sample only.
51	0480		9/23/95	3-056-V	0.25	<0.10	NA	Minor channel draining off of ridge. 20 feet from stream.
52	0476		9/23/95	3-056-R	0.25	<0.10	NA	Bottom of cliff just below drainage. Approx. 15 feet from stream.
53	0451		9/22/95	3-056-K	0.25	1.4	NA	Located in drainage channel
53	0555		9/26/95	3-056-K	1.0	0.2	<0.05	
53	0556		9/26/95	3-056-K	1.6	<0.10	<0.05	Refusal at 1.6 feet.
54	0443		9/22/95	3-056-C	0.25	<0.20	NA	
55	0444		9/22/95	3-056-D	0.2	<0.10	NA	May be in minor drainage channel.
56	0474		9/23/95	3-056-P	0.2	5.6	NA	In main drainage channel insmall catchment basin.
57	0473		9/23/95	3-056-O	0.25	1.3	NA	In drainage channel.
58	0479		9/23/95	3-056-U	0.25	7.1/3.2	NA	Stream bank. 50 ft. upstream of 3-056-S.
59	0477		9/23/95	3-056-S	0.25	5.1	NA	Base of cliff in catchment just above stream.
60	0478		9/23/95	3-056-T	0.2	<0.10	NA	At base of cliff ~40 feet upstream of culvert. In east drainage
61								Survey point for west end of culvert under landfill
62	0470		9/23/95	3-056-L	0.25	<0.10	NA	Located in small drainage.
63	0442		9/22/95	3-056-B	0.3	<0.10	NA	
64	0475		9/23/95	3-056-Q	0.2	<0.10	NA	Located at tip of ridge.
65	0567		9/29/95	Q15	0.25	1.2	<0.05	
65	0568		9/29/95	Q15	1.0	1.0	NA	
65	0569		9/29/95	Q15	1.6	0.17	<0.05	Refusal at 1.6 ft.
66	0489		9/25/95	Q14	0.2	8.8/4.2	NA	Edge of drainage channel. ~15 feet below north fenceline.
67	0497		9/25/95	P12	0.2	6.7/1.5	NA	Located in drainage approx. 2 feet NE of P12 grid point in undisturbed area.
67	0551		9/26/95	P12	1.0	<0.10	<0.05	Augering vertically on steep slope.
67	0552		9/26/95	P12	2.0	<0.10	<0.05	
67	0553		9/26/95	P12	3.0	<0.10	<0.05	

Table I

Figure 5 Sample Location Number	Sample Number	Color Code (see Figure 5)	Sample Date	Grid Location (see Figure 4)	Max. Sample Depth (feet)	PCB Conc. (ppm)	PCE Conc. (ppm)	Comments
67	0554		9/26/95	P12	3.8	<0.10	<0.05	Refusal at 3.8 feet. Acetone as lab contam. in sample.
70	0678		10/4/95	Q1	0.25	3.8	NA	Surface sample only.
71	0677		10/4/95	Q3	0.25	2.0	NA	Surface sample only.
72	0675		10/4/95	Q8	0.25	<0.10	<0.05	
72	0676		10/4/95	Q8	1.0	<0.10	<0.05	Refusal at 1.2 feet.
93	0496		9/25/95	P4	0.2	8.8/6.7	NA	In drainage channel just above junction with main channel.
94	0672		10/4/95	O8	0.25	<0.10	<0.05	
94	0673		10/4/95	O8	1.0	<0.10	<0.05	
94	0674		10/4/95	O8	2.0	<0.10	<0.05	Refusal at 2.4 feet. Difficult augering beyond 1.5 feet. Augering through cobbles and boulders.
95	0488		9/25/95	P7	0.3	4.2/0.18	NA	Difficult access. Middle of patch of wild roses.
100	0999		12/12/95	N4	0.25	<0.05	NA	
101	1000		12/12/95	M4	0.25	0.07	NA	
103	0730		10/17/95	10' S of K4	0.4	2.1	NA	Approx. 10 ft. south of K4
104	0731		10/17/95	10' S of K4	0.4	<0.05	NA	Approx. 10 ft. south of K4
Tributary Sediment Samples								
Shown on Figure 5	0333		9/15/95	Tributary		<0.10	NA	Streambed sediment sample, 40 ft upstream of effluent pipes
Shown on Figure 5	0334		9/15/95	Tributary		<0.10	NA	Streambed sediment sample, 140 ft upstream of effluent pipes
Shown on Figure 5	0335		9/15/95	Tributary		<0.10	NA	Streambed sediment sample, 25 ft downstream of effluent pipes
Wetland Sediment Samples								
Wetland area shown on Fig. 2	0725		10/11/95	Wetland	0.5	<0.10	NA	Wetlands sediment. Collected at west edge of bar 20 downstream of culvert.
Wetland area shown on Fig. 2	0726		10/11/95	Wetland	0.5	<0.10	NA	Wetlands sediment. Collected in point bar 50 feet downstream of culvert. North bank.
Wetland area shown on Fig. 2	0727		10/11/95	Wetland	0.5	3.3	NA	Wetlands sediment. Collected from south bank across from 3-056-AD.
Wetland area shown on Fig. 2	0728		10/11/95	Wetland	0.5	<0.10	NA	Wetlands sediment. Collected from south bank 70 feet downstream of culvert.

KEY

PCB	----	Polychlorinated Biphenyls
PCE	----	Tetrachloroethylene
b.o.g.s.	----	Below Original Ground Surface
ppm	----	parts per million
ppb	----	parts per billion
NA	----	NA indicate that PCE analysis was not requested.
Note 1:	----	All analyses performed by the ATI or the LANL Mobile Chemical Analytical Laboratories.
Note 2:	----	3.8/1.2 represents two sample values from the same sample after re-analyzing
Note 3:	----	Samples collected for Waste Charaterization purposes are not on this table
Note 4:	----	Samples located on the "North" Slope = all sample points north of the effluent transfer pipes depicted on Fig. 5

TABLE 2
PRS 3-056(c)
QA/QC Samples and Other Samples

Sample Number	Date	Location	PCB Conc. (ppm)	PCE Conc. (ppb)	Comments
0127	8/21/95				Rinse blank.
0101	8/23/95		<0.10	<50	Fill material for berm.
0146	8/23/95				Radvan sample - fill material.
0111	8/24/95	E5	4.5		FD of 0103-95-0110. Sample not homogenized
0125	8/28/95	Bin 2314	35	<50	FD of 0103-95-0145
0311	9/5/95	F6			FD of 0103-95-0310. Held by chem van.
0316	9/5/95	G5	3.2		FD of 0103-95-0313.
0312	9/6/95	H8	1.8		FD of 0103-95-0340.
0128	9/12/95		<0.0005		Rinse Blank
0280	9/12/95	A7	155		FD of 0103-95-0279
0353	9/21/95	M2	<0.10		FD of 0103-95-0352. Sample not homogenized in bowl.
0462	9/23/95	N16	0.49		FD of 0103-95-0459.
0463	9/23/95	XX2	<0.10		FD of 0103-95-0461.
0724	10/3/95	L4	76		FD of 1013-95-0723
0831	10/17/95	Rollins Trackhoe	<0.05		Control swipe sample (blank)
0765	10/26/95	F4	9200		FD of 0103-95-0695.
0845	10/26/95	Keers Equipment	<0.05		Control swipe sample (blank)
0766	10/27/95	3-056-Al	1.0	1.6	FD of 0103-95-0849
0889	11/1/95	F4	4.6		FD of 0103-95-0888.
0938	11/2/95	M5	0.05	3.4	FD of 0103-95-0937
0942	11/3/95			<0.0005	Rinse Blank off of hand augers.
0108	2/1/96		<0.001		Field blank collected as soil sample was collected at verification location N29.
0109	2/1/96		<0.001		Field blank collected as soil sample was collected at verification location N17.
0110	2/1/96		<0.001		Field blank collected as soil sample was collected at verification location N24.
1037	12/14/95	03-3140	1.9		FD of 0103-95-1036
1097	12/19/95	03-3145	1.2		FD of 0103-95-1096
1080	12/14/95		13.9		FD of 1079
0031	1/9/96	03-03166	<0.5		FD of 0103-96-0001

FD - Field Duplicate

TABLE 3
PRS 3-056(c)
VERIFICATION SAMPLE SUMMARY
WEST SLOPE
[All Samples Analyzed in LANL Mobile Chemical Analytical Laboratory (MCAL)]

Sample Number	Date	Grid No.	FIMAD Loc. ID	Verification Sample No.	Total PCB (ppm)	Comments
0991	12/12/95	C	03-03149	V1	<0.05	Center of grid
0992	12/12/95	4	03-03114	V2	<0.05	
0993	12/12/95	9	03-03119	V3	<0.05	
0994	12/12/95	5	03-03115	V4	1.7	Near location F4
0995	12/12/95	19	03-03129	V5	<0.05	
1001	12/12/95	8	03-03118	V6	<0.05	
1002	12/12/95	2	03-03112	V7	<0.05	G3 location. Collected composite sample only.
1003	12/12/95	1	03-03111	V8	<0.05	Edge of excavation.
1004	12/12/95	6	03-03116	V9	<0.5	
1006	12/12/95	33	03-03143	V11	2.2	
1007	12/12/95	27	03-03137	V12	19	Outside excavation near drum storage area.
1008	12/12/95	28	03-03138	V13	1.1	
1009	12/12/95	25	03-03135	V14	0.2	
1010	12/12/95	35	03-03145	V15	15	Outside excavation. Next to bldg. TA-3-223
1011	12/13/95	18	03-03128	V16	<0.05	
1012	12/13/95	7	03-03117	V17	<0.5	Edge of excavation, under pipes
1013	12/13/95	10	03-03120	V18	<0.5	
1014	12/13/95	35	03-03145	V15	15.4	Resample. Next to bldg. TA-3-223. Outside excavation
1015	12/13/95	27	03-03137	V12	<0.5	Resample. Outside excavation. Next to drum storage area.
1016	12/13/95	13	03-03123	V10	1.4	
1017	12/13/95	17	03-03127	V19	<0.5	Below effluent pipes, near stream channel
1018	12/13/95	16	03-03126	V20	1.7	Adjacent to stream. Bottom of slope.
1019	12/13/95	14	03-03124	V21	4.5	Adjacent to stream.
1020	12/13/95	15	03-03125	V22	1.6	Adjacent to stream.
1026	12/14/95	11	03-03121	V23	1.4	
1027	12/14/95	12	03-03122	V24	<0.5	Out of excavation. Next to effluent pipes.
1028	12/14/95	36	03-03146	V25	4.25	Outside of excavation.
1029	12/14/95	3	03-03113	V26	3.2	Near J3
1030	12/14/95	32	03-03142	V27	69	Near asphalt.
1036	12/14/95	30	03-03140	V38	2.2	
1038	12/14/95	22	03-03132	V37	<0.5	Chip sample of exposed tuff.
1039	12/14/95	23	03-03133	V36	<0.5	Inside pit dug at G5.
1040	12/14/95	21	03-03131	V35	0.84	Soil and crushed tuff
1041	12/14/95	20	03-03130	V34	9.3	
1042	12/14/95	24	03-03134	V33	8.2	Crushed tuff and soil

TABLE 3
PRS 3-056(c)
VERIFICATION SAMPLE SUMMARY
WEST SLOPE
[All Samples Analyzed in LANL Mobile Chemical Analytical Laboratory (MCAL)]

Sample Number	Date	Grid No.	FIMAD Loc. ID	Verification Sample No.	Total PCB (ppm)	Comments
1043	12/14/95	29	03-03139	V32	19	Crushed tuff and soil
1044	12/14/95	37	03-03147	V31	1.8	Moved location from mesa-top to bottom of slope and outside SW corner of exc.
1045	12/14/95	31	03-03141	V30	<0.5	Crushed tuff and soil.
1078	12/14/95	34	03-03144	V29	<0.5	Near YY12. Behind drum storage area.
1094	12/19/95	29	03-03139		<0.5	Re-sampled after second vacuuming.
1095	12/19/95	32	03-03142		<0.5	Re-sampled after second vacuuming.
1096	12/19/95	35	03-03145		0.5	Re-sampled after excavating 6-8 in.

TABLE 4
PRS 3-056(c)
VERIFICATION SAMPLE SUMMARY
NORTH SLOPE
[All Samples Analyzed by LANL Mobile Chemical Analytical Laboratory (MCAL)]

Sample Number	Date	Grid No.	FIMAD Loc. ID	Verification Sample No.	Total PCB (ppm)	Comments
1069	12/14/95	N17	03-03167	NV17	0.65	Soil around tuff block at plotted sample loc.
1049	12/14/95	N18	03-03168	NV18	2.9	Soil and crushed tuff around tuff block.
1050	12/14/95	N19	03-03169	NV19		Outside excavation/vacuum area. Composite sample only.
1051	12/14/95	N20	03-03170	NV20	<0.5	Outside excavation.
1079	12/14/95	N28	03-03178	NV28	12.8	Vicinity of K3, J3
1047	12/14/95	N6	03-03156	NV6	12	Little soil overburden.
1031	12/14/95	N7	03-03157	NV7	25	
1046	12/14/95	N8	03-03158	NV8	<0.5	
1048	12/14/95	N9	03-03159	NV9	21	Collected soil around tuff block.
1068	12/14/95	N10	03-03160	NV10	16	Soil and crushed tuff.
1032	12/14/95	N11	03-03161	NV11	15	Collected at base of small pine.
1033	12/14/95	N12	03-03162	NV12	13	
1057	12/14/95	N13	03-03163	NV13		Collected for composite only.
1056	12/14/95	N14	03-03164	NV14		Collected for composite only.
1058	12/14/95	N15	03-03165	NV15	<0.5	Within excavation, adjacent to tuff boulders.
1059	12/14/95	N16	03-03166	NV16	15	In excavation.
1067	12/14/95	N21	03-03171	NV21		Outside excavation/vacuum area. Composite sample only.
1034	12/14/95	N22	03-03172	NV22	0.61	
1062	12/14/95	N1	03-03151	NV1		Center point of grid.
1072	12/14/95	N25	03-03175	NV25	11	
1082	12/14/95	N26	03-03176	NV26	8.9	
1081	12/14/95	N27	03-03177	NV27	3.8	
1063	12/15/95	N29	03-03179	NV29	15	
1065	12/15/95	N30	03-03180	NV30	9.7	
1084	12/15/95	N31	03-03181	NV31	1.1	
1053	12/15/95	N35	03-03185	NV35	<0.5	
1052	12/15/95	N36	03-03186	NV36		Composite sample only.
1064	12/15/95	N37	03-03187	NV37	<0.5	
1070	12/14/95	N5	03-03155	NV5	9.8	
1061	12/14/95	N2	03-03152	NV2	<0.5	In excavation.
1085	12/15/95	N23	03-03173	NV23	1.3	
1071	12/14/95	N24	03-03174	NV24	0.55	Weathered tuff.
1060	12/14/95	N3	03-03153	NV3	<0.5	In excavation.
1083	12/15/95	N32	03-03182	NV32	12	
1055	12/15/95	N33	03-03183	NV33	12	
1054	12/15/95	N34	03-03184	NV34	14	
1035	12/14/95	N4	03-03154	NV4	12	

TABLE 4
PRS 3-056(c)
VERIFICATION SAMPLE SUMMARY
NORTH SLOPE
[All Samples Analyzed by LANL Mobile Chemical Analytical Laboratory (MCAL)]

Sample Number	Date	Grid No.	FIMAD Loc. ID	Verification Sample No.	Total PCB (ppm)	Comments
1076	12/14/95	N25	03-03175		13.35	Dup. of 1072. Collected 12/14/95 for composite. Re-labeled for individual analysis. Submitted 12/20/95.
1077	12/14/95	N4	03-03154		3.48	Dup. of 1035. Collected 12/14/95 for composite. Re-labeled for individual analysis. Submitted 12/20/95.
1098	12/15/95	N32	03-03182		3.82	Dup. of 1083. Collected 12/15/95 for composite. Re-labeled for individual analysis. Submitted 12/20/95
1099	12/15/95	N33	03-03183		12.04	Dup. of 1055. Collected 12/15/95 for composite. Re-labeled for individual analysis. Submitted 12/20/95.
1100	12/15/95	N34	03-03184		20.33	Dup. of 1054. Collected 12/15/95 for composite. Re-labeled for individual analysis. Submitted 12/20/95.
1093	12/19/95	N1	03-03151		1.9	Relabeled sample 0103-95-1062, which didn't get submitted.
1021	12/20/95	N7	03-03157		<0.5	Collected after 2nd round of vacuuming. 6 to 8 in. of material were removed.
1022	12/20/95	N6	03-03156		1.92	Collected after 2nd round of vacuuming. 6 to 8 in. of material were removed.
1023	12/20/95	N28	03-03178		<0.5	After 2nd round of vacuuming.
1024	12/20/95	N29	03-03179		0.6	After 2nd round of vacuuming.
1025	12/20/95	N9	03-03159		2.13	After 2nd round of vacuuming.
1101	12/20/95	N10	03-03160		3.27	Loose material left after jackhammer operation.
1102	12/20/95	N25	03-03175		<0.5	From cut in slope made earlier today by jackhammer operation near N25.
1103	12/20/95	N11	03-03161		<0.5	Tuff exposed after jackhammer operation. Crushed tuff and soil.
1106	12/27/95				3.24	Post-jackhammer. Collected in main drainage channel off mesa top near N31 and N32.
1107	12/27/95				19.8	Near N12 and N16. Sample collected from sidewall of excavation.
1108	12/27/95				19.61	SE corner of exc. near N33 and N34.
1109	12/27/95				2.72	Collected from sidewall near N4.
0001	1/9/96	N16	03-03166		<0.5	Loose material between boulders. Post-jackhammer and vacuum.
0002	1/9/96	N12	03-03162		9.5	Post-jackhammer and vacuum. Lab reports number may be biased high.
0003	1/9/96	N33	03-03183		0.97	Sampled sidewall after jackhammer/vacuum.

TABLE 4
PRS 3-056(c)
VERIFICATION SAMPLE SUMMARY
NORTH SLOPE
[All Samples Analyzed by LANL Mobile Chemical Analytical Laboratory (MCAL)]

Sample Number	Date	Grid No.	FIMAD Loc. ID	Verification Sample No.	Total PCB (ppm)	Comments
0004	1/9/96	N34	03-03184		0.52	Post-jackhammer and vacuum. Crushed tuff and fill.

TABLE 5
PRS 3-056(c)
VERIFICATION COMPOSITE SAMPLES
WEST SLOPE

Sample Date	Sample Number	Composite Group	Composited Grid Locations	PCB Concentration (ppm) Aroclor 1016	1221	1232	1242	1248	1254	1260	Total PCBs (ppm)	Comments
12/15/95	0103-95-1088	C	C, 1, 2, 4, 5, 6, 8, 9, 19	0.0964	<0.009	<0.009	<0.009	<0.009	<0.009	0.856	0.95	
12/15/95	0103-95-1089	B	3, 20, 21, 22, 23, 24, 29, 30, 31	0.218	<0.09	<0.09	<0.09	<0.09	<0.09	3.3	3.5	Must re-sample and analyze each location within composite group. See Table 6
12/15/95	0103-95-1090	B		0.281	<0.18	<0.18	<0.18	<0.18	<0.18	4.3	4.6	Field Duplicate of 0103-95-1089
12/15/95	0103-95-1091	D	7, 10, 11, 12, 13, 14, 15, 16, 17, 37	0.04	<0.036	<0.036	<0.036	<0.036	<0.036	1.1	1.1	
12/15/95	0103-95-1092	A	18, 25, 27, 28, 32, 33, 34, 35, 36	3.3	<0.092	<0.092	<0.092	<0.918	<0.918	25.3	28.6	Must re-sample and analyze each location within composite group. See Table 6
1/15/96	0103-96-0046	B	3, 20, 21, 22, 23, 24, 29, 30, 31	<0.038	<0.077	<0.038	<0.038	<0.038	1.2	2.8	4.0	Must re-sample and analyze each location within composite group. See Table 6
1/15/96	0103-96-0047	A	18, 25, 27, 28, 32, 33, 34, 35, 36	<0.038	<0.075	<0.038	<0.038	<0.038	0.99	4.1	5.1	Must re-sample and analyze each location within composite group. See Table 6

TABLE 6
PRS 3-056(c)
WEST SLOPE
VERIFICATION GRID SAMPLES

Sample Date	Sample Number	Composite Group	Grid Location Number	PCB Concentration (ppm) Aroclor 1016	1221	1232	1242	1248	1254	1260	Total PCBs (ppm)	Comments
1/15/96	0103-96-0048	A	35	<0.041	<0.083	<0.041	<0.041	<0.041	<0.041	0.042	0.042	
1/15/96	0103-96-0049	A	27	<0.18	<0.35	<0.18	<0.18	<0.18	<0.18	2.8	2.8	
1/15/96	0103-96-0050	A	18	<0.039	<0.079	<0.039	<0.039	<0.039	<0.039	0.97	0.97	
1/15/96	0103-96-0051	A	33	<0.037	<0.074	<0.037	<0.037	<0.037	1.6	4.4	6.0	
1/15/96	0103-96-0052	A	28	<0.18	<0.35	<0.18	<0.18	<0.18	0.94	2.5	3.4	
1/15/96	0103-96-0053	A	32	<0.040	<0.080	<0.040	<0.040	<0.040	<0.040	0.086	0.09	
1/15/96	0103-96-0054	A	36	<1.9	<3.8	<1.9	<1.9	<1.9	6.9	27	34	Exceeds target cleanup level.
1/15/96	0103-96-0055	A	34	<0.19	<0.38	<0.19	<0.19	<0.19	0.3	1.8	2.1	
1/15/96	0103-96-0056	A	25	<0.035	<0.070	<0.035	<0.035	<0.035	<0.035	0.058	0.06	
1/15/96	0103-96-0058	B	20	<0.34	<0.68	<0.34	<0.34	<0.34	4.4	8.5	13	
1/15/96	0103-96-0059	B	21	<0.039	<0.079	<0.039	<0.039	<0.039	0.4	1.7	2.1	
1/15/96	0103-96-0060	B	23	<0.20	<0.40	<0.20	<0.20	<0.20	0.59	3.4	4.0	
1/15/96	0103-96-0061	B	31	<0.041	<0.081	<0.041	<0.041	<0.041	<0.041	0.15	0.15	
1/15/96	0103-96-0062	B	30	<0.035	<0.069	<0.035	<0.035	<0.035	<0.035	<0.035	0	
1/15/96	0103-96-0063	B	22	<0.19	<0.37	<0.19	<0.19	<0.19	0.94	2.9	3.8	
1/15/96	0103-96-0064	B	3	<0.35	<0.69	<0.35	<0.35	<0.35	4.4	8.1	13	
1/15/96	0103-96-0065	B	29	<0.042	<0.085	<0.042	<0.042	<0.042	<0.042	0.24	0.24	
1/15/96	0103-96-0066	B	24	<0.039	<0.078	<0.039	<0.039	<0.039	0.45	1.6	2.1	
1/15/96	0103-96-0067	B	3	<0.35	<0.69	<0.35	<0.35	<0.35	<0.35	8.2	8.2	FD of 0103-96-0064

TABLE 7
PRS 3-056(c)
VERIFICATION COMPOSITE SAMPLES
NORTH SLOPE

Sample Date	Sample Number	Composite Group	Composited Grid Locations	PCB Concentration (ppm) Aroclor 1016	1221	1232	1242	1248	1254	1260	Total PCBs (ppm)	Comments
1/11/96	0103-96-0041	A	N6, N7, N8, N9, N17, N18, N19, N20, N28	<0.42	<0.42	<0.42	<0.42	<0.42	<0.85	5.0		Must re-sample and analyze each location within composite group. See Table 8
1/11/96	0103-96-0042	B	N10, N11, N12, N13, N14, N15, N16, N21, N22	<0.35	<0.35	<0.35	<0.35	<0.35	<0.71	6.7	6.7	Must re-sample and analyze each location within composite group. See Table 8
1/11/96	0103-96-0043	C	N1, N5, N26, N27, N29, N30, N31, N35, N36, N37	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	8.0	8.0	Must re-sample and analyze each location within composite group. See Table 8
1/11/96	0103-96-0044	D	N2, N3, N4, N23, N24, N25, N32, N33, N34, N38	<0.36	<0.36	<0.36	<0.36	<0.36	<0.73	5.9	5.9	Must re-sample and analyze each location within composite group. See Table 8
1/11/96	0103-96-0045	D		<0.36	<0.36	<0.36	<0.36	<0.36	<0.73	6.4	6.4	FD of 0103-96-0044

TABLE 8
PRS 3-056(c)
NORTH SLOPE
VERIFICATION GRID SAMPLES

Sample Date	Sample Number	Composite Group	Grid Location Number	PCB Concentration (ppm) Aroclor 1016	1221	1232	1242	1248	1254	1260	Total PCBs (ppm)	Comments
2/1/96	0103-96-0068	B	N14	<0.040	<0.080	<0.040	<0.040	<0.040	0.47	8.9	9.4	
2/1/96	0103-96-0069	B	N15	<0.041	<0.083	<0.041	<0.041	<0.041	0.34	6.9	7.2	
2/1/96	0103-96-0070	B	N13	<0.054	<0.110	<0.054	<0.054	<0.054	3.0	11	14	
2/1/96	0103-96-0071	B	N21	<0.035	<0.069	<0.035	<0.035	<0.035	0.09	0.27	0.36	
2/1/96	0103-96-0072	B	N22	<0.043	<0.087	<0.043	<0.043	<0.043	0.16	0.52	0.68	
2/1/96	0103-96-0073	D	N4	<0.040	<0.081	<0.040	<0.040	<0.040	<0.040	0.29	0.29	
2/1/96	0103-96-0074	A	N20	<0.051	<0.10	<0.051	<0.051	<0.051	0.42	1.3	1.7	
2/1/96	0103-96-0075	B	N12	<0.041	<0.082	<0.041	<0.041	<0.041	<0.041	47	47	Exceeds target cleanup level.
2/1/96	0103-96-0076	A	N19	<0.042	<0.084	<0.042	<0.042	<0.042	0.31	1.4	1.7	
2/1/96	0103-96-0077	A	N18	<0.042	<0.083	<0.042	<0.042	<0.042	4.8	17	22	Exceeds target cleanup level.
2/1/96	0103-96-0078	B	N16	<0.035	<0.071	<0.035	<0.035	<0.035	0.25	0.58	0.83	
2/1/96	0103-96-0079	B	N10	<0.036	<0.073	<0.036	<0.036	<0.036	<0.036	8.8	8.8	
2/1/96	0103-96-0080	B	N11	<0.035	<0.070	<0.035	<0.035	<0.035	<0.035	0.094	0.094	
2/1/96	0103-96-0081	D	N33	<0.037	<0.074	<0.037	<0.037	<0.037	0.22	0.81	1.0	
2/1/96	0103-96-0082	D	N25	<0.037	<0.075	<0.037	<0.037	<0.037	0.2	2.1	2.3	
2/1/96	0103-96-0083	C	N1	<0.051	<0.100	<0.051	<0.051	<0.051	4.2	1.2	5.4	
2/1/96	0103-96-0084	D	N2	<0.039	<0.079	<0.039	<0.039	<0.039	<0.039	4.6	4.6	
2/1/96	0103-96-0085	D	N3	<0.046	<0.092	<0.046	<0.046	<0.046	<0.046	2.8	2.8	
2/1/96	0103-96-0086	D	N23	<0.035	<0.070	<0.035	<0.035	<0.035	0.64	2.9	3.5	
2/1/96	0103-96-0087	A	N19	<0.042	<0.084	<0.042	<0.042	<0.042	0.36	1.6	2.0	FD of 0103-96-0076
2/1/96	0103-96-0088	C	N36	<0.039	<0.079	<0.039	<0.039	<0.039	0.25	1.1	1.4	
2/1/96	0103-96-0089	C	N30	<0.038	<0.076	<0.038	<0.038	<0.038	<0.038	13	13	
2/1/96	0103-96-0090	C	N31	<0.048	<0.095	<0.048	<0.048	<0.048	0.68	5.3	6.0	
2/1/96	0103-96-0091	C	N29	<0.038	<0.076	<0.038	<0.038	<0.038	0.069	4.7	4.8	

TABLE 8
PRS 3-056(c)
NORTH SLOPE
VERIFICATION GRID SAMPLES

Sample Date	Sample Number	Composite Group	Grid Location Number	PCB Concentration (ppm) Aroclor 1016	1221	1232	1242	1248	1254	1260	Total PCBs (ppm)	Comments
2/1/96	0103-96-0092	C	N26	<0.035	<0.070	<0.035	<0.035	<0.035	0.65	3.8	4.5	
2/1/96	0103-96-0093	C	N37	<0.039	<0.078	<0.039	<0.039	<0.039	0.080	0.30	0.38	
2/1/96	0103-96-0094	A	N28	<0.039	<0.078	<0.039	<0.039	<0.039	2.7	5.8	8.5	
2/1/96	0103-96-0095	C	N27	<0.039	<0.078	<0.039	<0.039	<0.039	3.2	8.4	12	
2/1/96	0103-96-0096	A	N6	<0.050	<0.100	<0.050	<0.050	<0.050	5.5	14	20	Exceeds target cleanup level.
2/1/96	0103-96-0097	C	N5	<0.035	<0.070	<0.035	<0.035	<0.035	10	20	30	Exceeds target cleanup level.
2/1/96	0103-96-0098	A	N8	<0.044	<0.089	<0.044	<0.044	<0.044	0.080	0.3	0.38	
2/1/96	0103-96-0099	A	N7	<0.044	<0.088	<0.044	<0.044	<0.044	0.25	1.3	1.6	
2/1/96	0103-96-0100	A	N9	<0.037	<0.073	<0.037	<0.037	<0.037	4.7	14	19	Exceeds target cleanup level.
2/1/96	0103-96-0101	A	N17	<0.040	<0.081	<0.040	<0.040	<0.040	2.6	1.3	3.9	
2/1/96	0103-96-0102	C	N35	<0.035	<0.071	<0.035	<0.035	<0.035	3.7	8.4	12	
2/1/96	0103-96-0103	D	N32	<0.035	<0.070	<0.035	<0.035	<0.035	9.1	54	63	Exceeds target cleanup level.
2/1/96	0103-96-0104	D	N34	<0.035	<0.070	<0.035	<0.035	<0.035	1.4	5.6	7.0	
2/1/96	0103-96-0105	D	N24	<0.047	<0.094	<0.047	<0.047	<0.047	3.3	6.8	10	
2/1/96	0103-96-0106	D	N38	<0.035	<0.070	<0.035	<0.035	<0.035	<0.035	30	30	Exceeds target cleanup level.
2/1/96	0103-96-0107	A	N17	<0.040	<0.080	<0.040	<0.040	<0.040	<0.040	0.98	0.98	FD of 0103-96-0107

TABLE 8
PRS 3-056(c)
NORTH SLOPE
VERIFICATION GRID SAMPLES

Sample Date	Sample Number	Composite Group	Grid Location Number	PCB Concentration (ppm) Aroclor 1016	1221	1232	1242	1248	1254	1260	Total PCBs (ppm)	Comments
The following samples were collected after expanding the north slope verification grid in an attempt to re-establish the extent of the 10 ppm contour at this location.												
3/22/96	0103-96-0111	na	N39	<0.38	<0.38	<0.38	<0.38	<0.38	<0.75	3.9	3.9	MCAL Total PCBs = 2.31 ppm
3/22/96	0103-96-0112	na	N40	<1.9	<1.9	<1.9	<1.9	<1.9	<3.9	15	15	MCAL Total PCBs = 6.61 ppm Exceeds target cleanup level.
3/22/96	0103-96-0113	na	N41	<0.49	<0.49	<0.49	<0.49	<0.49	<0.99	15	15	MCAL Total PCBs = 10.08 ppm Exceeds target cleanup level.
3/22/96	0103-96-0114	na	N42	<0.37	<0.37	<0.37	<0.37	<0.37	<0.74	7.8	7.8	MCAL Total PCBs = 5.20 ppm
3/22/96	0103-96-0115	na	N43	<0.16	<0.16	<0.16	<0.16	<0.16	<0.34	3.0	3.0	MCAL Total PCBs = 3.52 ppm
3/22/96	0103-96-0116	na	N44	<0.046	<0.046	<0.046	<0.046	<0.046	<0.092	1.2	1.2	MCAL Total PCBs = 0.22 ppm
3/22/96	0103-96-0117	na	N45	<0.22	<0.22	<0.22	<0.22	<0.22	<0.45	4.2	4.2	MCAL Total PCBs = 1.00 ppm
3/22/96	0103-96-0118	na	N46	<0.046	<0.046	<0.046	<0.046	<0.046	<0.092	0.93	0.93	MCAL Total PCBs = 0.39 ppm
3/22/96	0103-96-0119	na	N47	<0.17	<0.17	<0.17	<0.17	<0.17	<0.36	2.5	2.5	MCAL Total PCBs = 2.17 ppm
3/22/96	0103-96-0120	na	N48	<0.35	<0.35	<0.35	<0.35	<0.35	<0.71	4.0	4.0	MCAL Total PCBs = 4.23 ppm

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
1	0103-95-0082	Soil	Mg/Kg	8/31/95	8/31/95	10	140	52	97	289	126
2	0103-95-0083	Soil	Mg/Kg	8/31/95	8/31/95	10	53	13	13	79	124
3	0103-95-0090	Soil	Mg/Kg	8/22/95	8/23/95	1	0.51	1.7	1.4	3.6	97
4	0103-95-0091	Soil	Mg/Kg	8/22/95	8/22/95	10	3.2	8.2	5.4	17	124
5	0103-95-0092	Soil	Mg/Kg	8/22/95	8/22/95	1	<0.10	0.42	0.49	0.91	98
6	0103-95-0093	Soil	Mg/Kg	8/22/95	8/23/95	1	<0.10	0.59	0.63	1.2	95
7	0103-95-0094	Soil	Mg/Kg	8/22/95	8/23/95	50	<5.0	250	181	430	123
8	0103-95-0095	Soil	Mg/Kg	8/22/95	8/23/95	10	13	23	19	55	115
9	0103-95-0096	Soil	Mg/Kg	8/22/95	8/23/95	1	0.24	0.13	0.24	0.61	100
10	0103-95-0097	Soil	Mg/Kg	8/22/95	8/23/95	1	0.21	0.38	0.58	1.2	93
11	0103-95-0098	Soil	Mg/Kg	8/22/95	8/23/95	10	1.5	5.6	2.0	9.1	113
12	0103-95-0099	Soil	Mg/Kg	8/25/95	8/25/95	1	<0.10	2.1	2.4	4.5	94
13	0103-95-0100	Soil	Mg/Kg	8/25/95	8/25/95	1	<0.10	2.3	2.2	4.5	102
14	0103-95-0101	Soil	Mg/Kg	8/25/95	8/25/95	1	<0.10	<0.10	<0.10	<0.10	96
15	0103-95-0102	Soil	Mg/Kg	8/25/95	8/25/95	1	<0.10	1.6	1.7	3.3	104
16	0103-95-0103	Soil	Mg/Kg	8/25/95	8/30/95	10	<1.0	57	110	167	158 *
17	0103-95-0104	Soil	Mg/Kg	8/25/95	8/25/95	1	<0.10	7.1	5.6	13	102
18	0103-95-0105	Soil	Mg/Kg	8/25/95	8/25/95	1	3.3	9.0	8.3	21	92
19	0103-95-0106	Soil	Mg/Kg	8/25/95	8/25/95	1	<0.10	<0.10	2.7	2.7	94
20	0103-95-0107	Soil	Mg/Kg	8/25/95	8/30/95	50	640	1100	1900	3640	**
21	0103-95-0108	Soil	Mg/Kg	8/25/95	8/25/95	1	0.37	6.8	13	20	106
22	0103-95-0109	Soil	Mg/Kg	8/25/95	8/30/95	50	<5.0	600	1000	1600	**
23	0103-95-0110	Soil	Mg/Kg	8/25/95	8/25/95	1	1.3	11	19	31	100
24	0103-95-0111	Soil	Mg/Kg	8/25/95	8/25/95	1	0.11	2.0	2.4	4.5	101
25	0103-95-0112	Soil	Mg/Kg	8/25/95	8/25/95	1	0.14	1.3	0.54	2.0	98
26	0103-95-0113	Soil	Mg/Kg	8/26/95	8/26/95	2	<0.2	<0.2	1.6	1.6	112
27	0103-95-0114	Soil	Mg/Kg	8/26/95	8/26/95	2	<0.2	<0.2	33	33	117
28	0103-95-0115	Soil	Mg/Kg	8/26/95	8/30/95	25	<2.5	57	120	180	124
29	0103-95-0116	Soil	Mg/Kg	8/26/95	8/30/95	500	810	8100	24000	33000	**

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
30	0103-95-0117	Soil	Mg/Kg	8/26/95	8/30/95	10	<1.0	55	36	91	116
31	0103-95-0118	Soil	Mg/Kg	8/26/95	8/26/95	1	<0.10	<0.10	3.7	3.7	116
32	0103-95-0119	Soil	Mg/Kg	8/26/95	8/26/95	10	<1.0	<1.0	100	100	150
33	0103-95-0120	Soil	Mg/Kg	8/26/95	8/26/95	1	<0.1	<0.1	0.2	0.20	119
34	0103-95-0121	Soil	Mg/Kg	8/29/95	8/29/95	1	<0.10	<0.10	3.3	3.3	95
35	0103-95-0122	Soil	Mg/Kg	8/29/95	8/29/95	1	<0.10	<0.10	<0.10	<0.10	96
36	0103-95-0123	Soil	Mg/Kg	8/29/95	8/29/95	1	<0.10	8.1	7.2	15	103
37	0103-95-0124	Soil	Mg/Kg	8/29/95	8/29/95	1	<0.10	<0.10	<0.10	<0.10	100
38	0103-95-0125	Soil	Mg/Kg	8/29/95	8/30/95	10	<0.1	14	21	35	132
39	0103-95-0140	Soil	Mg/Kg	8/29/95	8/30/95	10	128	33	53	214	157 *
40	0103-95-0141	Soil	Mg/Kg	8/29/95	8/30/95	100	700	920	920	2540	**
41	0103-95-0142	Soil	Mg/Kg	8/29/95	8/30/95	10	<1.0	42	35	77	134
42	0103-95-0143	Soil	Mg/Kg	8/29/95	8/29/95	10	<1.0	13	16	29	136
43	0103-95-0144	Soil	Mg/Kg	8/29/95	8/30/95	50	<5.0	29	48	77	112
44	0103-95-0145	Soil	Mg/Kg	8/29/95	8/30/95	10	<1.0	19	27	46	118
45	0103-95-0148	Soil	Mg/Kg	8/29/95	8/30/95	50	11 D1	200	540	751	124
46	0103-95-0149	Soil	Mg/Kg	8/29/95	8/30/95	100	<10	640	770	1400	**
47	0103-95-0150	Soil	Mg/Kg	8/29/95	8/30/95	10	<1.0	51	70	121	141 *
48	0103-95-0151	Soil	Mg/Kg	8/29/95	8/30/95	50	<5.0	77	82	159	125
49	0103-95-0152	Soil	Mg/Kg	8/29/95	8/30/95	50	<5.0	63	140	203	115
50	0103-95-0153	Soil	Mg/Kg	8/29/95	8/30/95	10	<1.0	39	67	106	131
51	0103-95-0154	Soil	Mg/Kg	8/29/95	8/30/95	10	1.2	70	170	241	131
52	0103-95-0155	Soil	Mg/Kg	8/29/95	8/30/95	10	<1.0	17	38	55	141 *
53	0103-95-0158	Soil	Mg/Kg	9/1/95	9/1/95	1	11	14	13	38	93
54	0103-95-0159	Soil	Mg/Kg	9/1/95	9/2/95	1	<0.10	<0.10	<0.10	<0.10	100
55	0103-95-0160	Soil	Mg/Kg	9/1/95	9/1/95	1	<0.10	<0.10	<0.10	<0.10	106
56	0103-95-0231	Soil	Mg/Kg	9/1/95	9/1/95	1	<0.10	6.5	8.6	15	101
57	0103-95-0232	Soil	Mg/Kg	9/1/95	9/1/95	1	<0.10	<0.10	0.25	0.25	92
58	0103-95-0233	Soil	Mg/Kg	9/1/95	9/1/95	1	<0.10	<0.10	<0.10	<0.10	95

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
59	0103-95-0234	Soil	Mg/Kg	9/1/95	9/1/95	1	<0.10	2.4	4.1	6.5	92
60	0103-95-0235	Soil	Mg/Kg	9/1/95	9/2/95	1	<0.10	5.4	6.6	12	100
61	0103-95-0236	Soil	Mg/Kg	9/1/95	9/1/95	1	<0.10	2.0	2.0	4.0	98
62	0103-95-0237	Soil	Mg/Kg	9/9/95	9/12/95	100	<10	760	1300	2060	**
63	0103-95-0239	Soil	Mg/Kg	8/31/95	9/1/95	1	<0.10	1.4	2.0	3.4	98
64	0103-95-0240	Soil	Mg/Kg	8/31/95	9/1/95	1	<0.10	2.8	3.0	5.8	109
65	0103-95-0241	Soil	Mg/Kg	8/31/95	9/1/95	1	<0.10	<0.10	0.22	0.22	108
66	0103-95-0242	Soil	Mg/Kg	8/31/95	9/1/95	1	<0.10	5.5	6.8	12	100
67	0103-95-0243	Soil	Mg/Kg	8/31/95	9/1/95	1	<0.10	8.6	9	18	101
68	0103-95-0244	Soil	Mg/Kg	8/31/95	8/31/95	10	<1.0	81	110	191	131
69	0103-95-0245	Soil	Mg/Kg	8/31/95	9/1/95	5	<0.50	53	64	117	130
70	0103-95-0246	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	<0.10	0.59	0.59	102
71	0103-95-0247	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	<0.10	0.80	0.80	99
72	0103-95-0248	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	<0.10	0.15	0.15	99
73	0103-95-0249	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	1.7	2.5	4.2	107
74	0103-95-0250	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	<0.10	0.36	0.36	98
75	0103-95-0251	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	0.74	1.5	2.2	104
76	0103-95-0252	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	0.37	0.78	1.2	106
77	0103-95-0253	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	0.78	0.86	1.6	107
78	0103-95-0254	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	0.44	0.45	0.89	93
79	0103-95-0255	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	<0.10	<0.10	<0.10	93
80	0103-95-0256	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	<0.10	<0.10	<0.10	92
81	0103-95-0257	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	<0.10	<0.10	<0.10	95
82	0103-95-0258	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	0.72	0.99	1.7	95
83	0103-95-0259	Soil	Mg/Kg	8/31/95	9/1/95	1	<0.10	2.6	4.2	6.8	95
84	0103-95-0260	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	0.68	0.96	1.6	118
85	0103-95-0261	Soil	Mg/Kg	8/31/95	9/1/95	50	8.8	450	570	1029	103
86	0103-95-0262	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	1.1	1.3	2.4	98
87	0103-95-0263	Soil	Mg/Kg	8/31/95	8/31/95	1	<0.10	<0.10	<0.10	<0.10	93

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
88	0103-95-0264	Soil	Mg/Kg	9/1/95	9/1/95	1	<0.10	<0.10	<0.10	<0.10	97
89	0103-95-0265	Soil	Mg/Kg	9/1/95	9/1/95	1	<0.10	2.9	2.2	5.1	99
90	0103-95-0266	Soil	Mg/Kg	9/1/95	9/1/95	1	<0.10	8.6	12	21	98
91	0103-95-0267	Soil	Mg/Kg	9/1/95	9/1/95	1	<0.10	0.23	0.54	0.8	95
92	0103-95-0268	Soil	Mg/Kg	9/1/95	9/1/95	1	<0.10	<0.10	<0.10	<0.10	95
93	0103-95-0269	Soil	Mg/Kg	9/1/95	9/7/95	500	110 D100	3100	3900	7000	**
94	0103-95-0270	Soil	Mg/Kg	9/1/95	9/2/95	10	<1.0	110	170	280	131
95	0103-95-0271	Soil	Mg/Kg	9/1/95	9/2/95	50	<5.0	390	600	990	135
96	0103-95-0272	Soil	Mg/Kg	9/1/95	9/7/95	500	260	5600	9700	15560	**
97	0103-95-0276	Soil	Mg/Kg	9/13/95	9/14/95	1	<0.10	8.4	9.1	18	99
98	0103-95-0277	Soil	Mg/Kg	9/13/95	9/14/95	1	<0.10	5.6	5.7	11	102
99	0103-95-0278	Soil	Mg/Kg	9/13/95	9/14/95	1	<0.10	1.1	2.2	3.3	123
100	0103-95-0279	Soil	Mg/Kg	9/13/95	9/14/95	10	9.2	63	97	169	104
101	0103-95-0280	Soil	Mg/Kg	9/13/95	9/14/95	10	8.4	58	89	155	104
102	0103-95-0281	Soil	Mg/Kg	9/9/95	9/12/95	1	<0.10	0.69	0.89	1.6	99
103	0103-95-0282	Soil	Mg/Kg	9/9/95	9/9/95	1	<0.10	<0.10	<0.10	<0.10	92
104	0103-95-0291	Soil	Mg/Kg	9/2/95	9/2/95	1	<0.10	<0.10	<0.10	<0.10	96
105	0103-95-0292	Soil	Mg/Kg	9/2/95	9/2/95	1	<0.10	<0.10	<0.10	<0.10	98
106	0103-95-0293	Soil	Mg/Kg	9/2/95	9/2/95	1	<0.10	<0.10	0.30	0.30	97
107	0103-95-0294	Soil	Mg/Kg	9/2/95	9/2/95	1	<0.10	<0.10	<0.10	<0.10	97
108	0103-95-0295	Soil	Mg/Kg	9/2/95	9/2/95	1	<0.10	<0.10	<0.10	<0.10	101
109	0103-95-0296	Soil	Mg/Kg	9/2/95	9/2/95	1	<0.10	<0.10	<0.10	<0.10	98
110	0103-95-0297	Soil	Mg/Kg	9/2/95	9/2/95	1	0.31	10	15	25	100
111	0103-95-0298	Soil	Mg/Kg	9/2/95	9/2/95	1	1.5	8.0	11	21	96
112	0103-95-0299	Soil	Mg/Kg	9/2/95	9/2/95	1	<0.10	1.7	2.1	3.8	98
113	0103-95-0300	Soil	Mg/Kg	9/2/95	9/7/95	5	0.76	31	44	76	155
114	0103-95-0301	Soil	Mg/Kg	9/6/95	9/7/95	1	<0.10	<0.10	0.16	0.16	110
115	0103-95-0302	Soil	Mg/Kg	9/6/95	9/7/95	1	<0.10	<0.10	0.32	0.32	91
116	0103-95-0303	Soil	Mg/Kg	9/6/95	9/7/95	1	0.3	1.9	2.6	4.8	126

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
117	0103-95-0304	Soil	Mg/Kg	9/6/95	9/8/95	50	250	820	740	1810	**
118	0103-95-0305	Soil	Mg/Kg	9/6/95	9/8/95	1	1.4	3.3	2.1	6.8	129
119	0103-95-0306	Soil	Mg/Kg	9/6/95	9/8/95	1	5.9	130 D10	99 D10	234	113
120	0103-95-0307	Soil	Mg/Kg	9/6/95	9/8/95	1	26	190 D10	200 D10	416	119
121	0103-95-0308	Soil	Mg/Kg	9/6/95	9/7/95	1	1.3	13	17	31	119
122	0103-95-0309	Soil	Mg/Kg	9/6/95	9/7/95	1	<0.10	4.9	7.4	12	116
123	0103-95-0312	Soil	Mg/Kg	9/7/95	9/9/95	1	<0.10	0.49	1.3	1.8	91
124	0103-95-0313	Soil	Mg/Kg	9/6/95	9/7/95	1	<0.10	2.3	2.4	4.7	123
125	0103-95-0314	Soil	Mg/Kg	9/6/95	9/7/95	10	3.5	59	80	143	193 *
126	0103-95-0316	Soil	Mg/Kg	9/6/95	9/7/95	1	<0.10	1.5	1.7	3.2	127
127	0103-95-0317	Soil	Mg/Kg	9/6/95	9/7/95	1	<0.10	<0.10	0.10	0.10	91
128	0103-95-0318	Soil	Mg/Kg	9/6/95	9/7/95	1	<0.10	<0.10	0.43	0.43	112
129	0103-95-0319	Soil	Mg/Kg	9/6/95	9/7/95	1	0.60	11	17	29	93
130	0103-95-0320	Soil	Mg/Kg	9/6/95	9/7/95	1	<0.10	<0.10	<0.10	<0.10	121
131	0103-95-0321	Soil	Mg/Kg	9/6/95	9/7/95	1	<0.10	3.0	5.4	8.4	95
132	0103-95-0322	Soil	Mg/Kg	9/6/95	9/7/95	1	16	13	7.0	36	120
133	0103-95-0323	Soil	Mg/Kg	9/7/95	9/8/95	10	<1.0	25	27	52	135
134	0103-95-0324	Soil	Mg/Kg	9/7/95	9/9/95	10	<1.0	17	21	38	125
135	0103-95-0325	Soil	Mg/Kg	9/7/95	9/9/95	10	58	40	41	139	134
136	0103-95-0326	Soil	Mg/Kg	9/7/95	9/8/95	50	240	510	500	1250	72
137	0103-95-0327	Soil	Mg/Kg	9/7/95	9/9/95	10	<1.0	25.0	30	55	128
138	0103-95-0328	Soil	Mg/Kg	9/6/95	9/7/95	10	1.2	87	130	218	154
139	0103-95-0329	Soil	Mg/Kg	9/6/95	9/7/95	10	1.2 D1	67	100	167	143
140	0103-95-0330	Soil	Mg/Kg	9/6/95	9/7/95	1	2.3	2.1	2.1	6.5	123
141	0103-95-0331	Soil	Mg/Kg	9/6/95	9/7/95	1	4.2	13	13	30	107
142	0103-95-0332	Soil	Mg/Kg	9/6/95	9/8/95	1	<0.10	1.4	1.5	2.9	90
143	0103-95-0333	Soil	Mg/Kg	9/7/95	9/8/95	1	<0.10	<0.10	<0.10	<0.10	90
144	0103-95-0334	Soil	Mg/Kg	9/7/95	9/8/95	1	<0.10	<0.10	<0.10	<0.10	89
145	0103-95-0335	Soil	Mg/Kg	9/7/95	9/8/95	1	<0.10	<0.10	<0.10	<0.10	9

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
146	0103-95-0336	Soil	Mg/Kg	9/7/95	9/8/95	50	<5.0	510	590	1100	**
147	0103-95-0337	Soil	Mg/Kg	9/7/95	9/13/95	5	<0.50	32	36	68	133
148	0103-95-0338	Soil	Mg/Kg	9/7/95	9/9/95	5	<0.50	26	32	58	120
149	0103-95-0339	Soil	Mg/Kg	9/7/95	9/9/95	5	<0.50	19	28	47	117
150	0103-95-0340	Soil	Mg/Kg	9/7/95	9/9/95	1	<0.10	0.45	1.2	1.7	95
151	0103-95-0341	Soil	Mg/Kg	9/7/95	9/9/95	1	<0.10	<0.10	<0.10	<0.10	98
152	0103-95-0342	Soil	Mg/Kg	9/7/95	9/8/95	50	<5.0	480	510	990	**
153	0103-95-0343	Soil	Mg/Kg	9/22/95	9/22/95	1	<0.10	10	6.4	16	102
154	0103-95-0344	Soil	Mg/Kg	9/22/95	9/23/95	1	<5.0	410	680	1090	**
155	0103-95-0345	Soil	Mg/Kg	9/22/95	9/22/95	1	<0.10	0.82	1.3	2.1	102
156	0103-95-0346	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	<0.10	<0.10	<0.10	98
157	0103-95-0347	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	0.40	0.75	1.2	97
158	0103-95-0348	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	0.40	0.69	1.1	100
159	0103-95-0349	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	<0.10	<0.10	<0.10	101
160	0103-95-0350	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	<0.10	<0.10	<0.10	102
161	0103-95-0351	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	<0.10	<0.10	<0.10	100
162	0103-95-0352	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	<0.10	<0.10	<0.10	100
163	0103-95-0353	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	<0.10	<0.10	<0.10	98
164	0103-95-0355	Soil	Mg/Kg	9/13/95	9/14/95	1	<0.10	<0.10	0.39	0.39	96
165	0103-95-0356	Soil	Mg/Kg	9/13/95	9/14/95	1	<0.10	0.72	1.0	1.7	95
166	0103-95-0357	Soil	Mg/Kg	9/22/95	9/22/95	1	<0.10	<0.10	<0.10	<0.10	
167	0103-95-0358	Soil	Mg/Kg	9/22/95	9/22/95	1	<0.10	<0.10	0.34	0.34	99
168	0103-95-0359	Soil	Mg/Kg	9/22/95	9/22/95	1	<0.10	<0.10	0.32	0.32	98
169	0103-95-0360	Soil	Mg/Kg	9/22/95	9/22/95	1	<0.10	0.18	0.34	0.52	99
170	0103-95-0361	Soil	Mg/Kg	9/22/95	9/23/95	10	<1.0	89	93	182	130
171	0103-95-0362	Soil	Mg/Kg	9/22/95	9/22/95	1	<0.10	1.2	1.7	2.9	101
172	0103-95-0363	Soil	Mg/Kg	9/22/95	9/22/95	1	<0.10	3.9	3.8	7.7	96
173	0103-95-0364	Soil	Mg/Kg	9/22/95	9/22/95	1	<0.10	<0.10	0.23	0.23	99
174	0103-95-0365	Soil	Mg/Kg	9/7/95	9/8/95	50	460	1400	1400	3260	**

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
175	0103-95-0366	Soil	Mg/Kg	9/7/95	9/8/95	50	86	210	190	486	**
176	0103-95-0367	Soil	Mg/Kg	9/7/95	9/8/95	50	110	61	64	235	**
177	0103-95-0368	Soil	Mg/Kg	9/7/95	9/9/95	1	6.8	11	13	31	90
178	0103-95-0369	Soil	Mg/Kg	9/7/95	9/8/95	50	6.1	62	65	133	**
179	0103-95-0370	Soil	Mg/Kg	9/9/95	9/9/95	1	1.9	9.3	12	23	90
180	0103-95-0371	Soil	Mg/Kg	9/9/95	9/9/95	10	13	69	87	169	111
181	0103-95-0372	Soil	Mg/Kg	9/9/95	9/9/95	50	150	370	360	880	**
182	0103-95-0373	Soil	Mg/Kg	9/9/95	9/9/95	5	15	140	170	325	112
183	0103-95-0374	Soil	Mg/Kg	9/9/95	9/9/95	1	<0.10	1.6	2.2	3.8	90
184	0103-95-0375	Soil	Mg/Kg	9/9/95	9/9/95	1	<0.10	<0.10	0.55	0.55	94
185	0103-95-0376	Soil	Mg/Kg	9/9/95	9/9/95	1	<0.10	0.40	0.81	1.2	93
186	0103-95-0377	Soil	Mg/Kg	9/9/95	9/9/95	5	<0.50	11	16.0	27	118
187	0103-95-0378	Soil	Mg/Kg	9/9/95	9/9/95	1	<0.10	0.54	0.6	1.2	93
188	0103-95-0379	Soil	Mg/Kg	9/9/95	9/9/95	1	<0.10	<0.10	<0.10	<0.10	90
189	0103-95-0380	Soil	Mg/Kg	9/9/95	9/12/95	1	<0.10	0.96	1.3	2.3	96
190	0103-95-0381	Soil	Mg/Kg	9/9/95	9/9/95	1	<0.10	<0.10	<0.10	<0.10	93
191	0103-95-0382	Soil	Mg/Kg	9/9/95	9/12/95	1	<0.10	0.70	1.5	2.2	102
192	0103-95-0383	Soil	Mg/Kg	9/9/95	9/9/95	1	<0.10	<0.10	<0.10	<0.10	109
193	0103-95-0384	Soil	Mg/Kg	9/9/95	9/12/95	1	<0.10	1.8	2.0	3.8	95
194	0103-95-0385	Soil	Mg/Kg	9/9/95	9/9/95	1	<0.10	<0.10	<0.10	<0.10	89
195	0103-95-0387	Soil	Mg/Kg	9/14/95	9/14/95	10	<1.0	36	37	73	120
196	0103-95-0388	Soil	Mg/Kg	9/14/95	9/14/95	10	<1.0	7.1	10	17	122
197	0103-95-0389	Soil	Mg/Kg	9/14/95	9/14/95	10	<1.0	27	15	42	122
198	0103-95-0390	Soil	Mg/Kg	9/14/95	9/15/95	50	24	480	660	1164	**
199	0103-95-0391	Soil	Mg/Kg	9/16/95	9/16/95	1	<0.10	3.8	6.3	10	103
200	0103-95-0392	Soil	Mg/Kg	9/16/95	9/16/95	1	<0.10	<0.10	<0.10	<0.10	102
201	0103-95-0393	Soil	Mg/Kg	9/16/95	9/16/95	1	<0.10	<0.10	<0.10	<0.10	112
202	0103-95-0394	Soil	Mg/Kg	9/16/95	9/16/95	1	<0.10	<0.10	0.39	0.39	99
203	0103-95-0395	Soil	Mg/Kg	9/16/95	9/16/95	1	<0.10	<0.10	<0.10	<0.10	110

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
204	0103-95-0396	Soil	Mg/Kg	9/16/95	9/16/95	25	3.6	150	210	364	133
205	0103-95-0397	Soil	Mg/Kg	9/16/95	9/19/95	100	50	860	1200	2110	**
206	0103-95-0398	Soil	Mg/Kg	9/16/95	9/19/95	1	<0.10	4.6	6.8	11	100
207	0103-95-0399	Soil	Mg/Kg	9/16/95	9/16/95	25	<2.5	72	100	172	**
208	0103-95-0400	Soil	Mg/Kg	9/19/95	9/19/95	1	<0.10	3.6	4.8	8.4	97
209	0103-95-0401	Soil	Mg/Kg	9/19/95	9/19/95	1	<0.10	<0.10	<0.10	<0.10	98
210	0103-95-0402	Soil	Mg/Kg	9/16/95	9/16/95	1	<0.10	<0.10	<0.10	<0.10	103
211	0103-95-0403	Soil	Mg/Kg	9/19/95	9/19/95	1	<0.10	<0.10	0.21	0.21	98
212	0103-95-0404	Soil	Mg/Kg	9/19/95	9/19/95	1	<0.10	5.7	8.10	14	97
213	0103-95-0405	Soil	Mg/Kg	9/19/95	9/19/95	1	<0.10	<0.10	0.17	0.17	98
214	0103-95-0406	Soil	Mg/Kg	9/19/95	9/19/95	1	<0.10	<0.10	<0.10	<0.10	98
215	0103-95-0408	Soil	Mg/Kg	9/16/95	9/16/95	1	<0.10	1.7	3.7	5.4	102
216	0103-95-0409	Soil	Mg/Kg	9/16/95	9/16/95	1	<0.10	<0.10	<0.10	<0.10	103
217	0103-95-0410	Soil	Mg/Kg	9/16/95	9/16/95	1	<0.10	<0.10	<0.10	<0.10	104
218	0103-95-0411	Soil	Mg/Kg	9/16/95	9/19/95	1	<0.10	0.76	1.1	1.9	99
219	0103-95-0412	Soil	Mg/Kg	9/20/95	9/20/95	50	<5.0	210	310	520	**
220	0103-95-0413	Soil	Mg/Kg	9/20/95	9/20/95	50	<5.0	130	200	330	**
221	0103-95-0414	Soil	Mg/Kg	9/20/95	9/20/95	50	<5.0	160	240	400	**
222	0103-95-0415	Soil	Mg/Kg	9/20/95	9/20/95	50	<5.0	150	210	360	**
223	0103-95-0416	Soil	Mg/Kg	9/20/95	9/20/95	1	<0.10	2.1	2.6	4.7	91
224	0103-95-0417	Soil	Mg/Kg	9/21/95	9/21/95	50	<5.0	140	220	360	**
225	0103-95-0418	Soil	Mg/Kg	9/21/95	9/21/95	50	<5.0	120	190	310	**
226	0103-95-0419	Soil	Mg/Kg	9/21/95	9/21/95	50	<5.0	170	290	460	**
227	0103-95-0420	Soil	Mg/Kg	9/21/95	9/21/95	50	<5.0	170	280	450	**
228	0103-95-0421	Soil	Mg/Kg	9/21/95	9/21/95	50	<5.0	120	190	310	**
229	0103-95-0422	Soil	Mg/Kg	9/21/95	9/21/95	50	<5.0	360	570	930	**
230	0103-95-0423	Soil	Mg/Kg	9/21/95	9/21/95	50	<5.0	300	480	780	**
231	0103-95-0424	Soil	Mg/Kg	9/21/95	9/21/95	50	<5.0	190	300	490	**
232	0103-95-0425	Soil	Mg/Kg	9/21/95	9/21/95	50	<5.0	400	620	1020	**

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
233	0103-95-0426	Soil	Mg/Kg	9/21/95	9/21/95	50	**<5.0**	**330**	**510**	**840**	**
234	0103-95-0427	Soil	Mg/Kg	9/23/95	9/23/95	1	<0.10	<0.10	<0.10	<0.10	104
235	0103-95-0428	Soil	Mg/Kg	9/23/95	9/23/95	1	<0.10	<0.10	<0.10	<0.10	103
236	0103-95-0429	Soil	Mg/Kg	9/23/95	9/23/95	1	<0.10	<0.10	<0.10	<0.10	103
237	0103-95-0430	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	<0.10	<0.10	<0.10	102
238	0103-95-0431	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	**1.4**	**2.5**	**3.9**	103
239	0103-95-0432	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	<0.10	<0.10	<0.10	100
240	0103-95-0433	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	<0.10	<0.10	<0.10	98
241	0103-95-0434	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	<0.10	<0.10	<0.10	97
242	0103-95-0435	Soil	Mg/Kg	9/24/95	9/25/95	50	<5.0	**190**	**250**	**440**	**
243	0103-95-0436	Soil	Mg/Kg	9/24/95	9/25/95	50	<5.0	**160**	**230**	**390**	**
244	0103-95-0437	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	**0.42**	**1.1**	**1.5**	102
245	0103-95-0438	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	**1.2**	**2.5**	**3.7**	103
246	0103-95-0439	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	**0.47**	**1.1**	**1.6**	102
247	0103-95-0440	Soil	Mg/Kg	9/22/95	9/23/95	1	<0.10	**0.19**	**1.1**	**1.3**	100
248	0103-95-0441	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	**1.8**	**2.5**	**4.3**	100
249	0103-95-0442	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	<0.10	<0.10	<0.10	102
250	0103-95-0443	Soil	Mg/Kg	9/23/95	9/24/95	2	<0.20	<0.20	<0.20	<0.20	101
251	0103-95-0444	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	<0.10	<0.10	<0.10	101
252	0103-95-0445	Soil	Mg/Kg	9/23/95	9/24/95	2	**<0.20**	**2.3**	**3.6**	**5.9**	97
253	0103-95-0446	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	**1.1**	**1.6**	**2.7**	98
254	0103-95-0447	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	<0.10	**0.16**	**0.16**	103
255	0103-95-0448	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	**1.3**	**1.1**	**2.4**	100
256	0103-95-0449	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	**1.9**	**2.4**	**4.3**	99
257	0103-95-0450	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	<0.10	<0.10	<0.10	130
258	0103-95-0451	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	**0.72**	**0.71**	**1.4**	100
259	0103-95-0451	Soil	Mg/Kg	9/27/95	9/27/95	1	<0.10	<0.10	<0.10	<0.10	99
260	0103-95-0452	Soil	Mg/Kg	9/23/95	9/24/95	10	**<1.0**	**33**	**27**	**60**	132
261	0103-95-0452	Soil	Mg/Kg	9/27/95	9/27/95	1	<0.10	<0.10	<0.10	<0.10	94

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
262	0103-95-0453	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	1.8	2.4	4.2	99
263	0103-95-0453	Soil	Mg/Kg	10/4/95	10/4/95	1	<0.10	<0.10	<0.10	<0.10	94
264	0103-95-0454	Soil	Mg/Kg	9/23/95	9/24/95	1	<0.10	<0.10	<0.10	<0.10	98
265	0103-95-0454	Soil	Mg/Kg	9/27/95	9/27/95	1	<0.10	<0.10	<0.10	<0.10	95
266	0103-95-0455	Soil	Mg/Kg	9/27/95	9/27/95	1	<0.10	<0.10	0.20	0.20	97
267	0103-95-0456	Soil	Mg/Kg	9/27/95	9/27/95	1	<0.10	<0.10	<0.10	<0.10	98
268	0103-95-0457	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	0.46	0.46	101
269	0103-95-0457	Soil	Mg/Kg	9/27/95	9/27/95	1	<0.10	1.6	1.8	3.4	96
270	0103-95-0458	Soil	Mg/Kg	9/27/95	9/27/95	1	<0.10	2.9	4.4	7.3	95
271	0103-95-0458	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	105
272	0103-95-0459	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	0.19	0.45	0.64	99
273	0103-95-0460	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	100
274	0103-95-0461	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	103
275	0103-95-0462	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	0.13	0.36	0.49	101
276	0103-95-0463	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	105
277	0103-95-0464	Soil	Mg/Kg	9/24/95	9/24/95	50	<5.0	310	430	740	**
278	0103-95-0465	Soil	Mg/Kg	9/24/95	9/24/95	50	25	380	500	905	**
279	0103-95-0466	Soil	Mg/Kg	9/24/95	9/24/95	50	<5.0	180	260	440	**
280	0103-95-0467	Soil	Mg/Kg	9/24/95	9/25/95	50	<5.0	290	410	700	**
281	0103-95-0468	Soil	Mg/Kg	9/24/95	9/25/95	50	<5.0	150	230	380	**
282	0103-95-0469	Soil	Mg/Kg	9/24/95	9/25/95	50	<5.0	110	160	270	**
283	0103-95-0470	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	123
284	0103-95-0471	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	144
285	0103-95-0472	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	121
286	0103-95-0473	Soil	Mg/Kg	9/24/95	9/25/95	2	<0.20	0.43	0.91	1.3	120
287	0103-95-0474	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	2.2	3.4	5.6	123
288	0103-95-0475	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	129
289	0103-95-0476	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	127
290	0103-95-0477	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	2.2	2.9	5.1	115

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
291	0103-95-0478	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	104
292	0103-95-0479	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	2.8	4.3	7.1	95
293	0103-95-0480	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	98
294	0103-95-0481	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	104
295	0103-95-0482	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	0.29	0.29	141
296	0103-95-0483	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	0.23	0.23	102
297	0103-95-0484	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	0.14	0.14	124
298	0103-95-0485	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	0.12	0.73	0.85	109
299	0103-95-0486	Soil	Mg/Kg	9/24/95	9/25/95	1	<0.10	<0.10	<0.10	<0.10	99
300	0103-95-0487	Soil	Mg/Kg	9/26/95	9/26/95	1	<0.10	<0.10	0.18	0.18	97
301	0103-95-0488	Soil	Mg/Kg	9/26/95	9/26/95	1	<0.10	1.6	2.6	4.2	94
302	0103-95-0489	Soil	Mg/Kg	9/26/95	9/26/95	1	<0.10	3.6	5.2	8.8	99
303	0103-95-0490	Soil	Mg/Kg	9/26/95	9/26/95	50	<5.0	200	250	450	**
304	0103-95-0491	Soil	Mg/Kg	9/26/95	9/26/95	50	<5.0	220	290	510	**
305	0103-95-0492	Soil	Mg/Kg	9/26/95	9/26/95	50	<5.0	220	290	510	**
306	0103-95-0493	Soil	Mg/Kg	9/26/95	9/26/95	50	<5.0	130	180	310	**
307	0103-95-0494	Soil	Mg/Kg	9/26/95	9/26/95	50	13	200	260	473	**
308	0103-95-0495	Soil	Mg/Kg	9/26/95	9/26/95	50	11	210	280	501	**
309	0103-95-0496	Soil	Mg/Kg	9/26/95	9/26/95	1	<0.10	3.1	3.6	6.7	97
310	0103-95-0497	Soil	Mg/Kg	9/26/95	9/26/95	1	<0.10	0.61	0.9	1.5	100
311	0103-95-0498	Soil	Mg/Kg	9/26/95	9/26/95	1	<0.10	<0.10	0.35	0.35	99
312	0103-95-0561	Soil	Mg/Kg	9/30/95	9/30/95	1	<0.10	68 D10	76 D10	150	98
313	0103-95-0562	Soil	Mg/Kg	9/30/95	9/30/95	1	<0.10	1.8	2.2	4.0	141
314	0103-95-0563	Soil	Mg/Kg	9/30/95	9/30/95	1	<0.10	<0.10	<0.10	<0.10	97
315	0103-95-0564	Soil	Mg/Kg	9/30/95	9/30/95	1	<0.10	<0.10	0.81	0.81	96
316	0103-95-0565	Soil	Mg/Kg	9/30/95	9/30/95	1	<0.10	<0.10	<0.10	<0.10	99
317	0103-95-0566	Soil	Mg/Kg	9/30/95	9/30/95	1	<0.10	<0.10	<0.10	<0.10	98
318	0103-95-0567	Soil	Mg/Kg	9/30/95	9/30/95	1	<0.10	0.42	0.75	1.2	96
319	0103-95-0568	Soil	Mg/Kg	9/30/95	9/30/95	1	<0.10	0.43	0.57	1.0	101

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
320	0103-95-0569	Soil	Mg/Kg	9/30/95	9/30/95	1	<0.10	<0.10	0.17	0.17	100
321	0103-95-0665	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	<0.10	0.41	0.41	100
322	0103-95-0666	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	<0.10	<0.10	<0.10	104
323	0103-95-0667	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	<0.10	<0.10	<0.10	102
324	0103-95-0668	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	3.8	2.9	6.7	103
325	0103-95-0669	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	5.8	3.7	9.5	106
326	0103-95-0670	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	1.2	0.89	2.1	104
327	0103-95-0671	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	0.41	0.45	0.86	105
328	0103-95-0672	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	<0.10	<0.10	<0.10	105
329	0103-95-0673	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	<0.10	<0.10	<0.10	108
330	0103-95-0674	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	<0.10	<0.10	<0.10	113
331	0103-95-0675	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	<0.10	<0.10	<0.10	110
332	0103-95-0676	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	<0.10	<0.10	<0.10	107
333	0103-95-0677	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	1.2	0.83	2.0	109
334	0103-95-0678	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	1.6	2.2	3.8	112
335	0103-95-0679	Soil	Mg/Kg	10/5/95	10/5/95	1	<0.10	8.0	7.5	16	108
336	0103-95-0680	Soil	Mg/Kg	10/7/95	10/7/95	1	<0.10	<0.10	<0.10	<0.10	111
337	0103-95-0681	Soil	Mg/Kg	10/7/95	10/7/95	10	<1.0	9.4	18	27	**
338	0103-95-0682	Soil	Mg/Kg	10/7/95	10/7/95	1	<0.10	<0.10	<0.10	<0.10	97
339	0103-95-0683	Soil	Mg/Kg	10/7/95	10/7/95	1	<0.10	<0.10	<0.10	<0.10	125
340	0103-95-0684	Soil	Mg/Kg	10/7/95	10/7/95	1	<0.10	0.21	0.37	0.58	118
341	0103-95-0685	Soil	Mg/Kg	10/7/95	10/7/95	1	<0.10	<0.10	<0.10	<0.10	98
342	0103-95-0686	Soil	Mg/Kg	10/7/95	10/7/95	1	<0.10	<0.10	<0.10	<0.10	103
343	0103-95-0687	Soil	Mg/Kg	10/7/95	10/12/95	2	<0.20	0.83	1.3	2.1	86
344	0103-95-0688	Soil	Mg/Kg	10/7/95	10/7/95	1	<010	<0.10	2.8	2.8	103
345	0103-95-0689	Soil	Mg/Kg	10/7/95	10/7/95	1	<0.10	<0.10	0.54	0.54	108
346	0103-95-0690	Soil	Mg/Kg	10/7/95	10/7/95	1	<0.10	<0.10	<0.10	4.4	99
347	0103-95-0695	Soil	Mg/Kg	10/27/95	10/28/95	1	180 D100	3100 D1000	3300 D1000	6600	**

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
348	0103-95-0703	Soil	Mg/Kg	10/27/95	10/28/95	1	<0.10	<0.10	<0.10	<0.10	98
349	0103-95-0704	Soil	Mg/Kg	10/27/95	10/28/95	1	<0.10	32 D5	42 D5	74	98
350	0103-95-0705	Soil	Mg/Kg	10/27/95	10/28/95	1	<0.10	0.28	0.16	0.44	101
351	0103-95-0706	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	0.96	1.4	2.4	121
352	0103-95-0707	Soil	Mg/Kg	10/27/95	10/28/95	1	0.90	97 D20	140 D20	240	118
353	0103-95-0708	Soil	Mg/Kg	10/28/95	10/29/95	1	26 D5	110D20	120D20	260	**
354	0103-95-0709	Soil	Mg/Kg	10/27/95	10/28/95	1	2.3	140 D20	200 D20	340	121
355	0103-95-0710	Soil	Mg/Kg	10/28/95	10/29/95	1	3.3	89 D10	63 D10	160	123
356	0103-95-0711	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	2.2	2.3	4.5	126
357	0103-95-0712	Soil	Mg/Kg	10/28/95	10/29/95	1	1.3	44 D5	36 D5	81	119
358	0103-95-0713	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	0.36	0.31	0.67	110
359	0103-95-0714	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	1.6	1.1	2.7	99
360	0103-95-0715	Soil	Mg/Kg	10/4/95	10/4/95	1	<0.10	<0.10	0.19	0.19	102
361	0103-95-0716	Soil	Mg/Kg	10/4/95	10/4/95	1	<0.10	6.2	7.6	14	120
362	0103-95-0717	Soil	Mg/Kg	10/4/95	10/4/95	1	<0.10	0.75	1.4	2.2	118
363	0103-95-0718	Soil	Mg/Kg	10/4/95	10/4/95	1	7.2	370 D50	276 D50	650	123
364	0103-95-0719	Soil	Mg/Kg	10/4/95	10/4/95	1	<0.10	0.34	1.3	1.6	113
365	0103-95-0720	Soil	Mg/Kg	10/4/95	10/4/95	1	<0.10	0.30	0.84	1.1	119
366	0103-95-0721	Soil	Mg/Kg	10/4/95	10/4/95	1	<0.10	3.2	4.2	7.4	92
367	0103-95-0722	Soil	Mg/Kg	10/4/95	10/4/95	1	<0.10	0.21	0.36	0.57	93
368	0103-95-0723	Soil	Mg/Kg	10/4/95	10/4/95	1	<0.10	48 D10	37 D10	85	120
369	0103-95-0724	Soil	Mg/Kg	10/4/95	10/4/95	1	<0.10	43 D10	33 D10	76	123
370	0103-95-0725	Soil	Mg/Kg	10/12/95	10/12/95	1	<0.10	<0.10	<0.10	<0.10	79
371	0103-95-0726	Soil	Mg/Kg	10/12/95	10/12/95	1	<0.10	<0.10	<0.10	<0.10	80
372	0103-95-0727	Soil	Mg/Kg	10/12/95	10/12/95	1	<0.10	2.3	1.0	3.3	86
373	0103-95-0728	Soil	Mg/Kg	10/12/95	10/12/95	1	<0.10	<0.10	<0.10	<0.10	81
374	0103-95-0745	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	<0.10	<0.10	<0.10	97
375	0103-95-0747	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	0.23	0.10	0.33	98
376	0103-95-0748	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	<0.10	<0.10	<0.10	101

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
377	0103-95-0749	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	<0.10	<0.10	<0.10	97
378	0103-95-0750	Soil	Mg/Kg	10/27/95	10/28/95	1	38 D20	330 D40	320 D40	690	**
379	0103-95-0751	Soil	Mg/Kg	10/27/95	10/28/95	1	26 D20	340 D100	330 D100	700	**
380	0103-95-0752	Soil	Mg/Kg	10/27/95	10/28/95	1	8.4	90 D10	190 D20	290	116
381	0103-95-0753	Soil	Mg/Kg	10/27/95	10/28/95	20	9.5	160	200	370	139
382	0103-95-0754	Soil	Mg/Kg	10/27/95	10/28/95	1	8.9	93 D10	78 D10	180	140
383	0103-95-0755	Soil	Mg/Kg	10/27/95	10/28/95	1	0.14	3.9	5.4	9.4	122
384	0103-95-0756	Soil	Mg/Kg	10/27/95	10/28/95	1	140 D20	8.0	6.8	150	113
385	0103-95-0757	Soil	Mg/Kg	10/27/95	10/28/95	1	250 D200	3700 D500	4400 D500	8400	**
386	0103-95-0758	Soil	Mg/Kg	10/27/95	10/28/95	1	<0.10	2.4	2.5	4.9	102
387	0103-95-0759	Soil	Mg/Kg	10/27/95	10/28/95	1	2.2	32 D5	40 D5	74	106
388	0103-95-0760	Soil	Mg/Kg	10/27/95	10/28/95	1	<0.10	1.4	1.3	2.7	129
389	0103-95-0761	Soil	Mg/Kg	10/27/95	10/28/95	1	<0.10	2.0	2.9	4.9	123
390	0103-95-0762	Soil	Mg/Kg	10/27/95	10/28/95	1	<0.10	2.6	11 D2	14	113
391	0103-95-0763	Soil	Mg/Kg	10/27/95	10/28/95	1	<0.10	2.5	3.3	5.8	115
392	0103-95-0764	Soil	Mg/Kg	10/27/95	10/28/95	1	37 D10	430 D100	350 D100	820	140
393	0103-95-0765	Soil	Mg/Kg	10/27/95	10/28/95	1	200 D100	4300 D1000	4700 D1000	9200	**
394	0103-95-0766	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	0.94	0.64	1.6	97
395	0103-95-0846	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	4.0	6.6	11	127
396	0103-95-0847	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	3.2	5.1	8.3	97
397	0103-95-0848	Soil	Mg/Kg	10/28/95	10/29/95	5	<0.50	36	29	65	136
398	0103-95-0849	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	1.3	0.97	2.3	101
399	0103-95-0850	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	<0.10	<0.10	<0.10	103
400	0103-95-0851	Soil	Mg/Kg	10/28/95	10/29/95	1	<0.10	<0.10	<0.10	<0.10	95
401	0103-95-0856	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	110
402	0103-95-0857	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	1.0	1.2	2.2	106
403	0103-95-0858	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	99

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
404	0103-95-0859	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	104
405	0103-95-0860	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	6.1	9.2	15	115
406	0103-95-0861	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	3.6	4.1	7.7	120
407	0103-95-0862	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	3.9	6.3	10	98
408	0103-95-0863	Soil	Mg/Kg	11/1/95	11/1/95	1	1.1	280 D100	440 D100	720	102
409	0103-95-0863	Soil	Mg/Kg	11/1/95	11/1/95	1	1.1	410 D50	440 D100	850	102
410	0103-95-0864	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	4.5	5.4	9.9	95
411	0103-95-0865	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	2.7	4.1	6.8	131
412	0103-95-0866	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	0.34	0.36	0.70	96
413	0103-95-0867	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	99
414	0103-95-0868	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	97
415	0103-95-0869	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	103
416	0103-95-0870	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	99
417	0103-95-0871	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	142
418	0103-95-0872	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	2.9	2.6	5.5	128
419	0103-95-0872	Soil	Mg/Kg	11/1/95	11/1/95	1	0.51	6.6	6.5	14	94
420	0103-95-0873	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	2.1	1.5	3.6	98
421	0103-95-0873	Soil	Mg/Kg	11/1/95	11/1/95	1	0.34	3.7	2.9	6.9	97
422	0103-95-0874	Soil	Mg/Kg	11/1/95	11/1/95	1	0.93	7.5	6.2	15	118
423	0103-95-0874	Soil	Mg/Kg	11/1/95	11/1/95	1	2.4	20 D5	15 D5	37	95
424	0103-95-0875	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	95
425	0103-95-0875	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	131
426	0103-95-0876	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	0.28	0.27	0.55	143
427	0103-95-0876	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	0.70	0.71	1.4	135
428	0103-95-0877	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	94
429	0103-95-0877	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	125
430	0103-95-0878	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	93
431	0103-95-0878	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	115
432	0103-95-0879	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	94

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
433	0103-95-0879	Soil	Mg/Kg	[illegible]95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	116
434	0103-95-0880	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	94
435	0103-95-0880	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	120
436	0103-95-0881	Soil	Mg/Kg	11/1/95	11/1/95	1	5.8	<0.10	<0.10	5.8	*
437	0103-95-0881	Soil	Mg/Kg	11/1/95	11/1/95	1	7.1	<0.10	<0.10	7.1	161
438	0103-95-0882	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	0.16	0.33	0.49	118
439	0103-95-0883	Soil	Mg/Kg	11/1/95	11/1/95	1	<0.10	<0.10	<0.10	<0.10	125
440	0103-95-0884	Soil	Mg/Kg	11/1/95	11/1/95	20	54	160	200	414	129
441	0103-95-0884	Soil	Mg/Kg	11/1/95	11/1/95	1	54 D20	160 D20	200 D50	414	**
442	0103-95-0886	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	2.5	2.1	4.6	118
443	0103-95-0887	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	0.36	0.39	0.75	118
444	0103-95-0888	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	2.3	1.8	4.1	101
445	0103-95-0889	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	2.8	1.8	4.6	109
446	0103-95-0890	Soil	Mg/Kg	11/3/95	11/3/95	1	<0.10	0.73	0.73	1.5	101
447	0103-95-0891	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	0.82	1.6	2.4	128
448	0103-95-0892	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	1.0	1.2	2.2	138
449	0103-95-0893	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	2.2	3.1	5.3	131
450	0103-95-0894	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	0.87	1.3	2.2	126
451	0103-95-0895	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	<0.10	0.47	0.47	118
452	0103-95-0896	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	55	100	160	127
453	0103-95-0897	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	0.60	0.86	1.5	133
454	0103-95-0898	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	<0.10	<0.10	<0.10	124
455	0103-95-0899	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	4.0	3.6	7.6	*
456	0103-95-0900	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	<0.10	<0.10	<0.10	113
457	0103-95-0916	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	1.3	1.4	2.7	106
458	0103-95-0917	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	<0.10	0.13	0.13	97
459	0103-95-0918	Soil	Mg/Kg	11/3/95	11/3/95	1	<0.10	0.36	0.66	1.0	97
460	0103-95-0919	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	<0.10	<0.10	<0.10	*
461	0103-95-0920	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	<0.10	<0.10	<0.10	99

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL.	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
462	0103-95-0921	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	<0.10	<0.10	<0.10	110
463	0103-95-0922	Soil	Mg/Kg	11/2/95	11/2/95	1	6.2	43 D20	59 D20	110	128
464	0103-95-0928	Soil	Mg/Kg	11/3/95	11/3/95	20	<20	84	72	160	**
465	0103-95-0929	Soil	Mg/Kg	11/3/95	11/3/95	1	<0.10	0.86	1.2	2	133
466	0103-95-0930	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	7.7	40 D5	47	99
467	0103-95-0931	Soil	Mg/Kg	11/3/95	11/3/95	1	<0.10	<0.10	<0.10	<0.10	*
468	0103-95-0932	Soil	Mg/Kg	11/3/95	11/3/95	1	<0.10	<0.10	<0.10	<0.10	*
469	0103-95-0933	Soil	Mg/Kg	11/2/95	11/2/95	1	2.4	17 D5	18 D5	37	117
470	0103-95-0934	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	8.9	19 D5	28	132
471	0103-95-0935	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	<0.10	<0.10	<0.10	129
472	0103-95-0936	Soil	Mg/Kg	11/3/95	11/3/95	1	<0.10	<0.10	<0.10	<0.10	138
473	0103-95-0937	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	1.5	1.4	3	94
474	0103-95-0938	Soil	Mg/Kg	11/2/95	11/2/95	1	<0.10	1.8	1.6	3	95
475	0103-95-0939	Soil	Mg/Kg	11/3/95	11/3/95	1	3.8	42 D20	56 D20	100	115
476	0103-95-0940	Soil	Mg/Kg	11/3/95	11/3/95	1	2	90 D20	110 D20	200	119
477	0103-95-0941	Soil	Mg/Kg	11/3/95	11/3/95	1	<0.10	1.2	1.5	3	112
478	CONFIRMATION						300	1000	1200	2500	
479	CONFIRMATION						250	520	700	1470	
480	CONFIRMATION						960	3200	3800	7960	
481	CONFIRMATION						2.7	12	23	38	
482	CONFIRMATION						29	170	320	519	
483	CONFIRMATION						3.2	15	46	64	
484	CONFIRMATION								3.1	3.1	
485	CONFIRMATION							43	51	94	
486	CONFIRMATION							0.07	0.093	0.163	
487	CONFIRMATION							1.2	8.6	9.8	
488	CONFIRMATION						1.2	9.9	17	28	
489	CONFIRMATION						42	62	200	304	
490	CONFIRMATION								2	2.00	

Table 9
ATI Mobile Laboratory Data

	SW846- Method 8080/PCB										
	LANL SAMPLE ID	MATRIX	UNITS	DATE EXTRACTED	DATE ANALYZED	DIL .	AROCLOR 1242	AROCLOR 1254	AROCLOR 1260	TOTAL PCBs	SUR. REC. %
491	CONFIRMATION						7.2	18	71	96	

Notes:

D (Dil) Indicates the compound was analyzed at a greater dilution.

* Result is out of quality control limits due to matrix interference.

** Due to the necessary dilution of the sample, the surrogate result was not attainable.

APPENDIX B

SWMU 3-056(c)

Figures 1 - 9

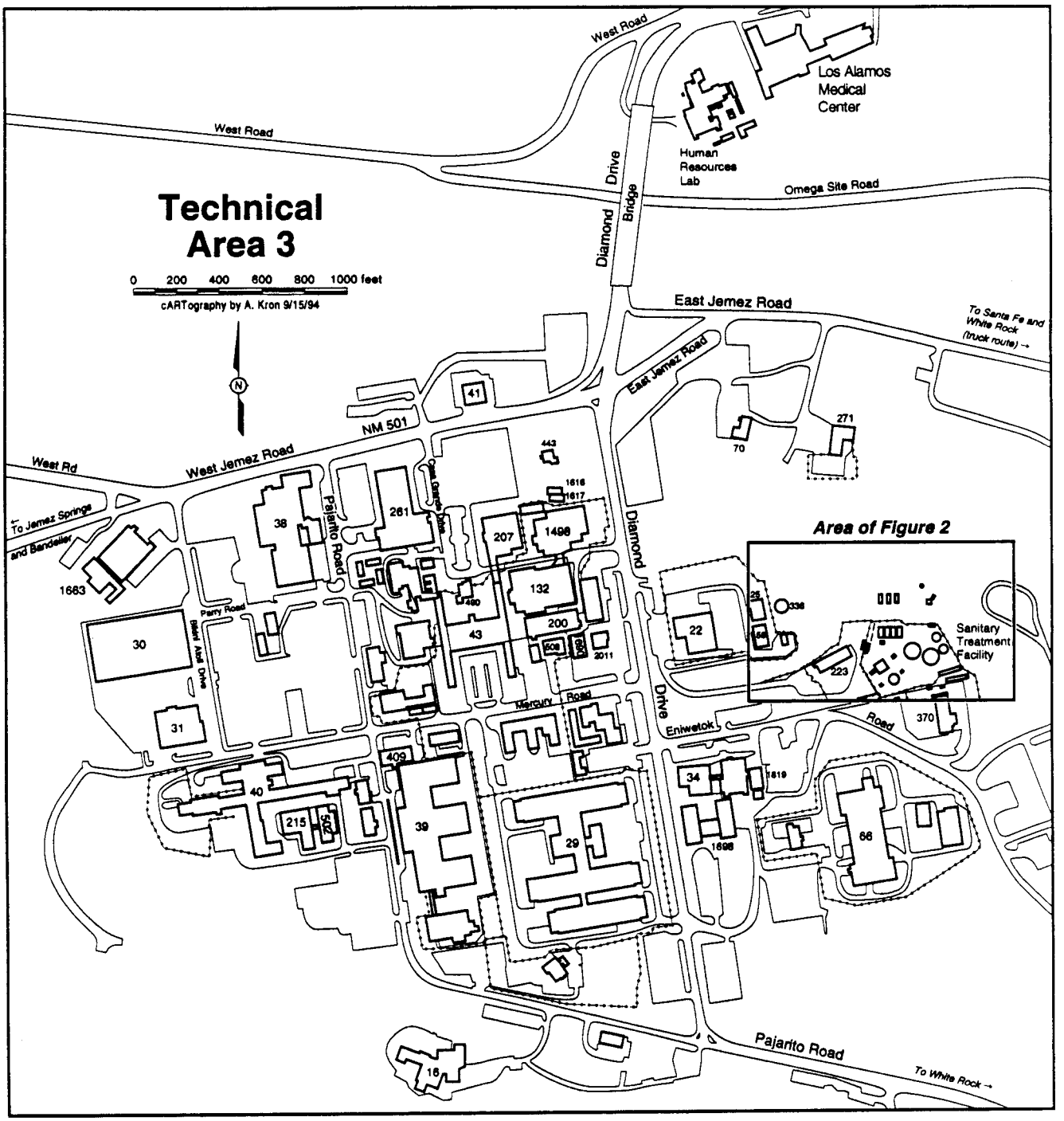

Fig. 1. Location map.

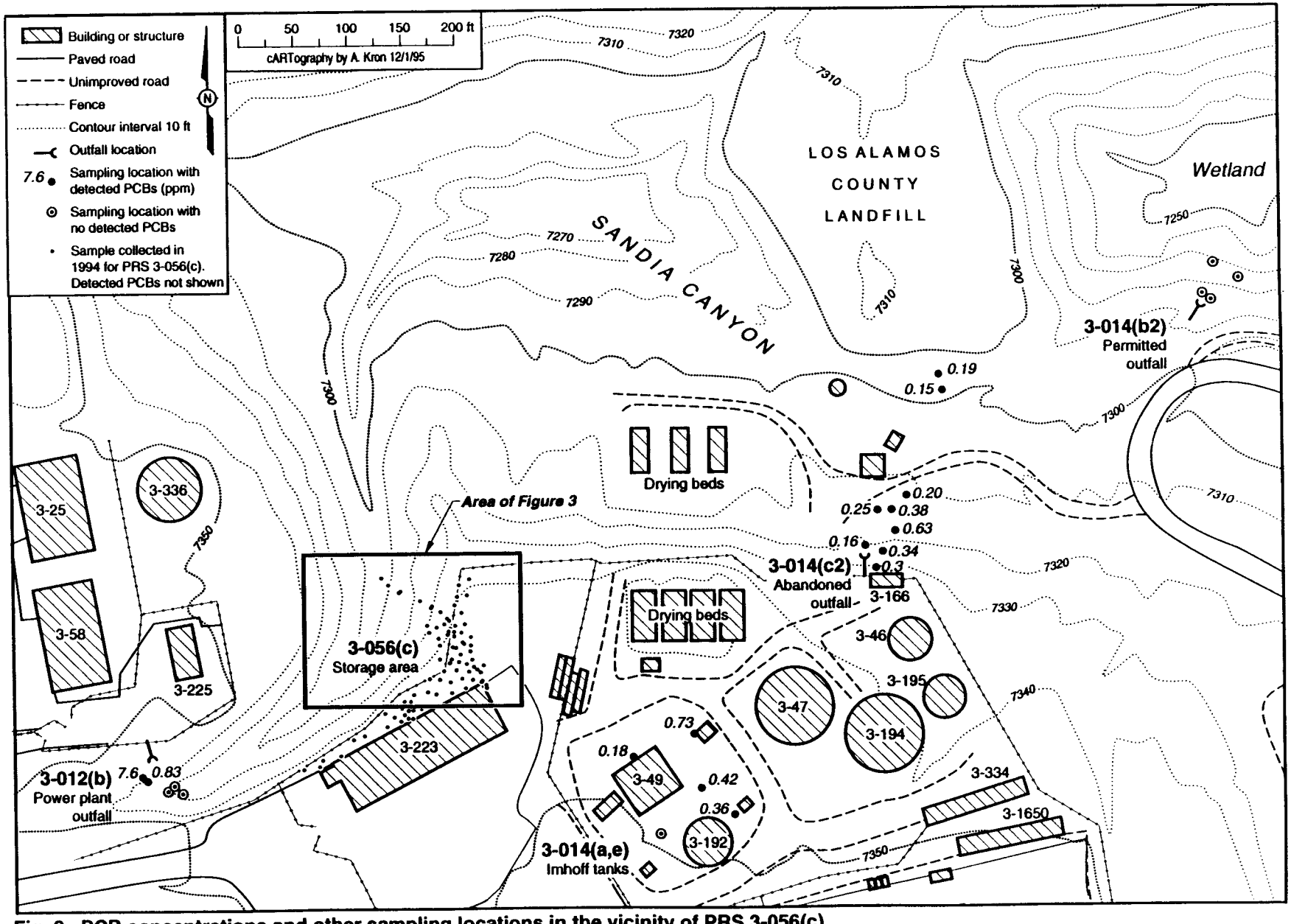

Fig. 2. PCB concentrations and other sampling locations in the vicinity of PRS 3-056(c).

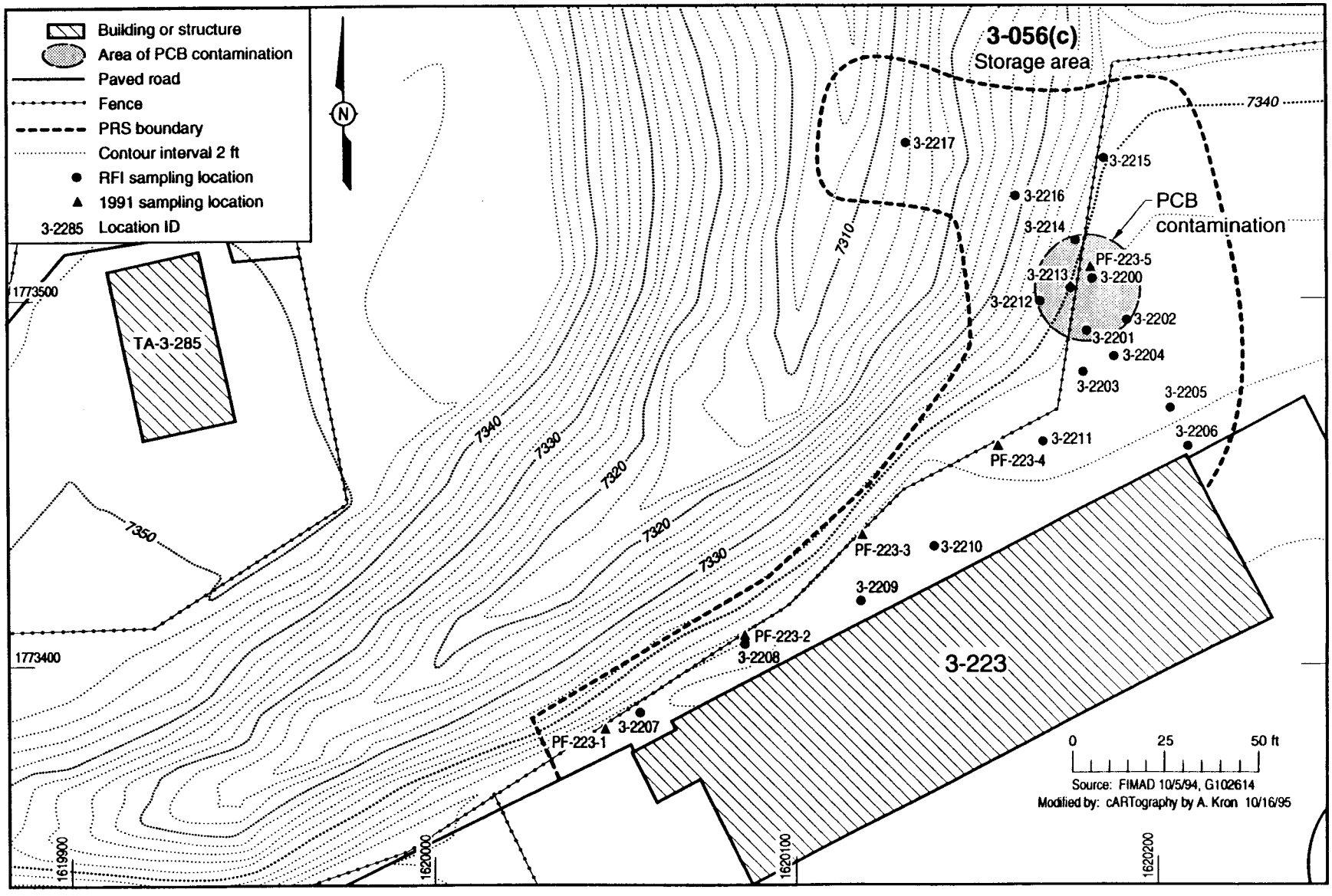

Fig. 3. 1994 RFI sampling locations for PRS 3-056(c).

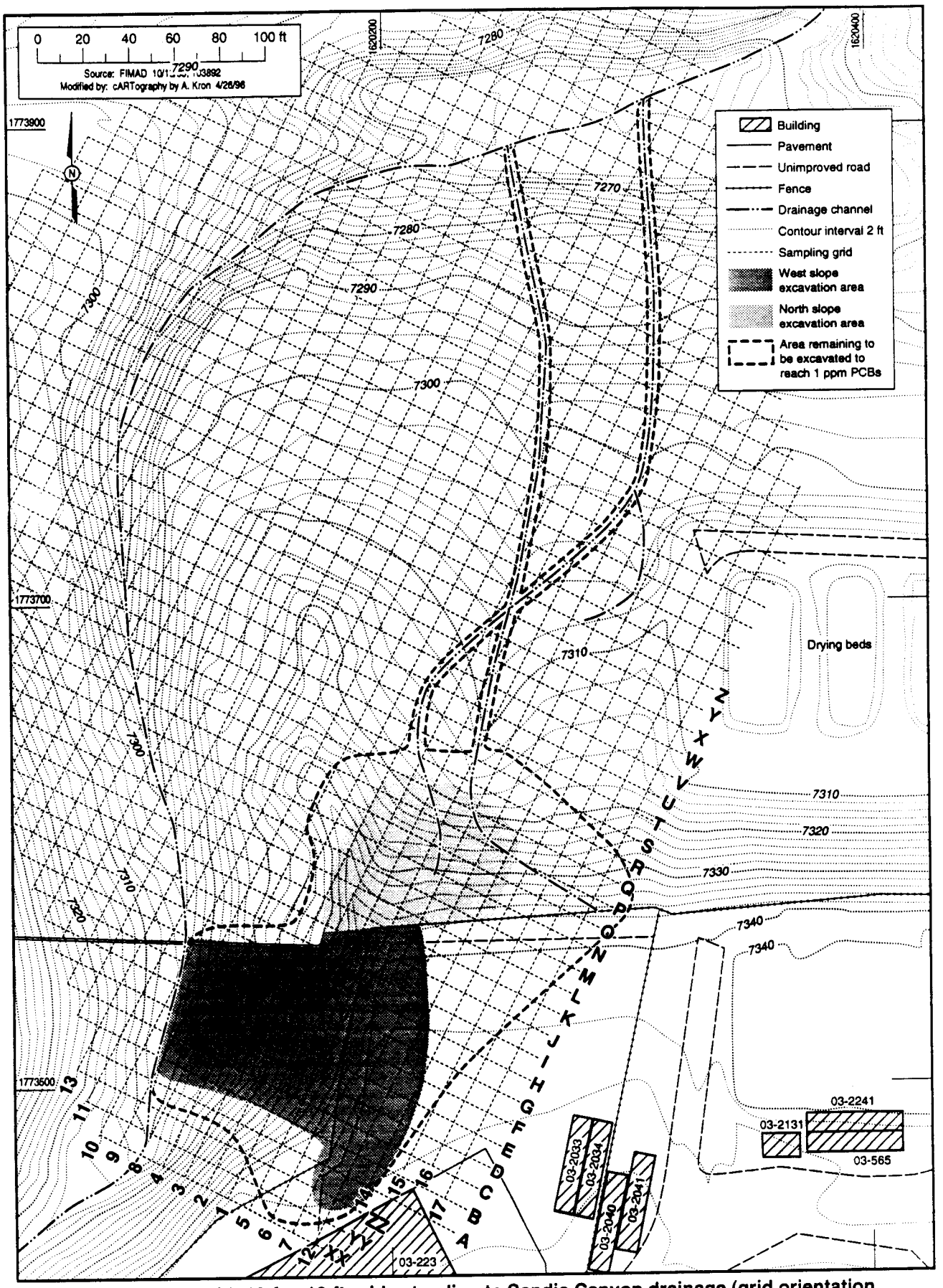

Fig. 4. PRS 3-056(c) with 10-ft x 10-ft grid extending to Sandia Canyon drainage (grid orientation approximate.

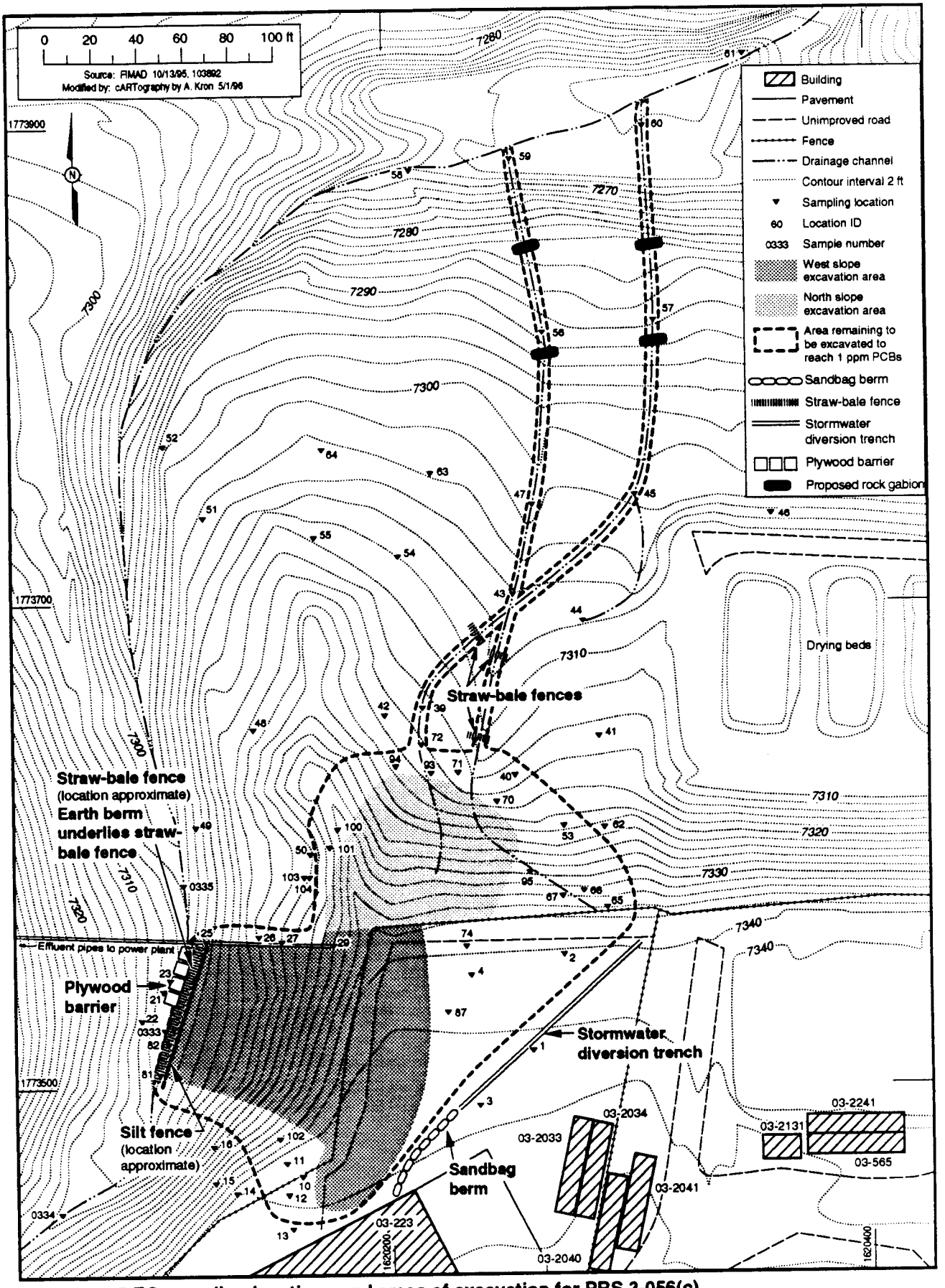

Fig. 5. 1995 EC sampling locations and areas of excavation for PRS 3-056(c).

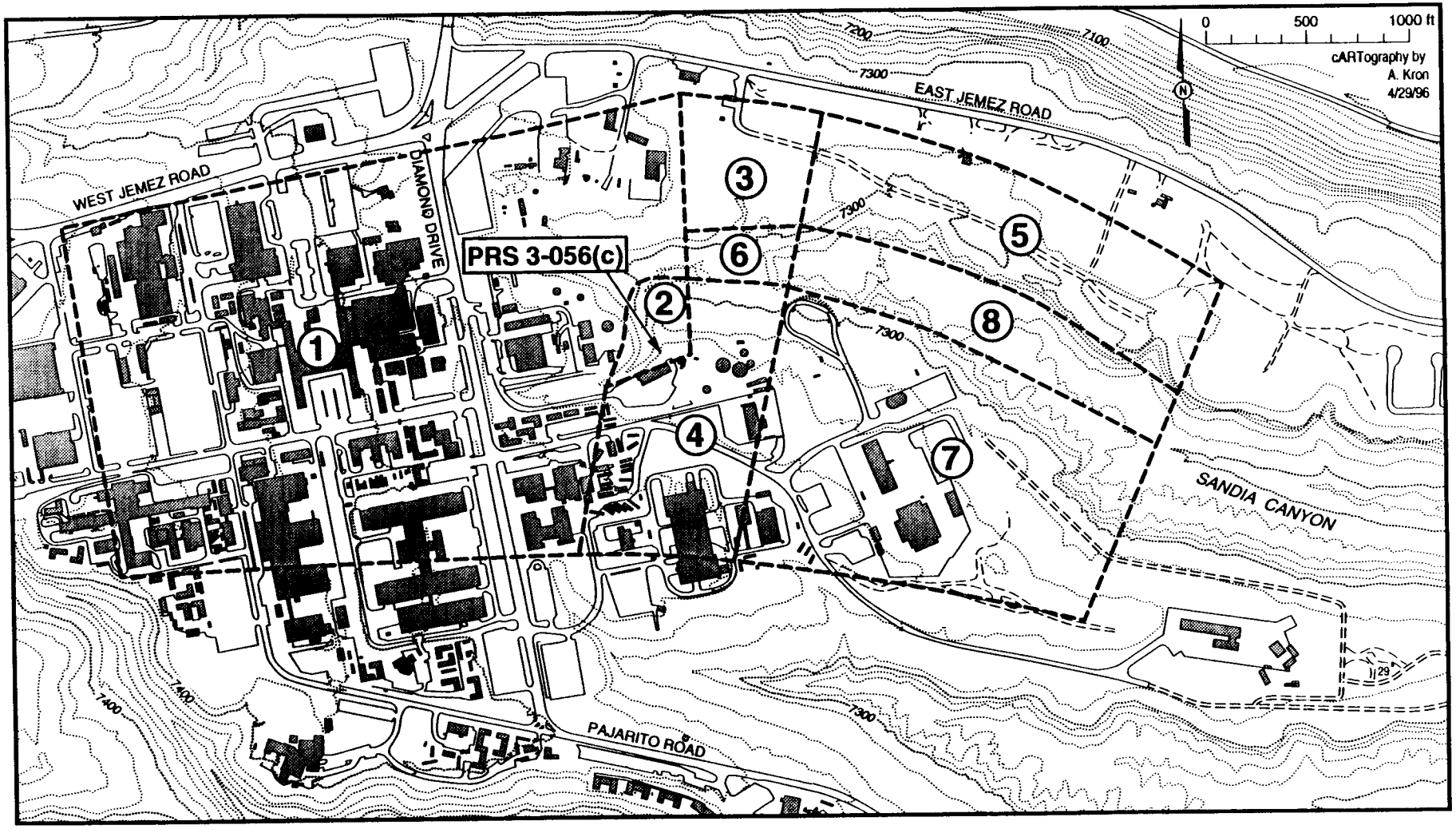

Fig. 6. Eight areas for modeling sediment transport using ECOTRAN.

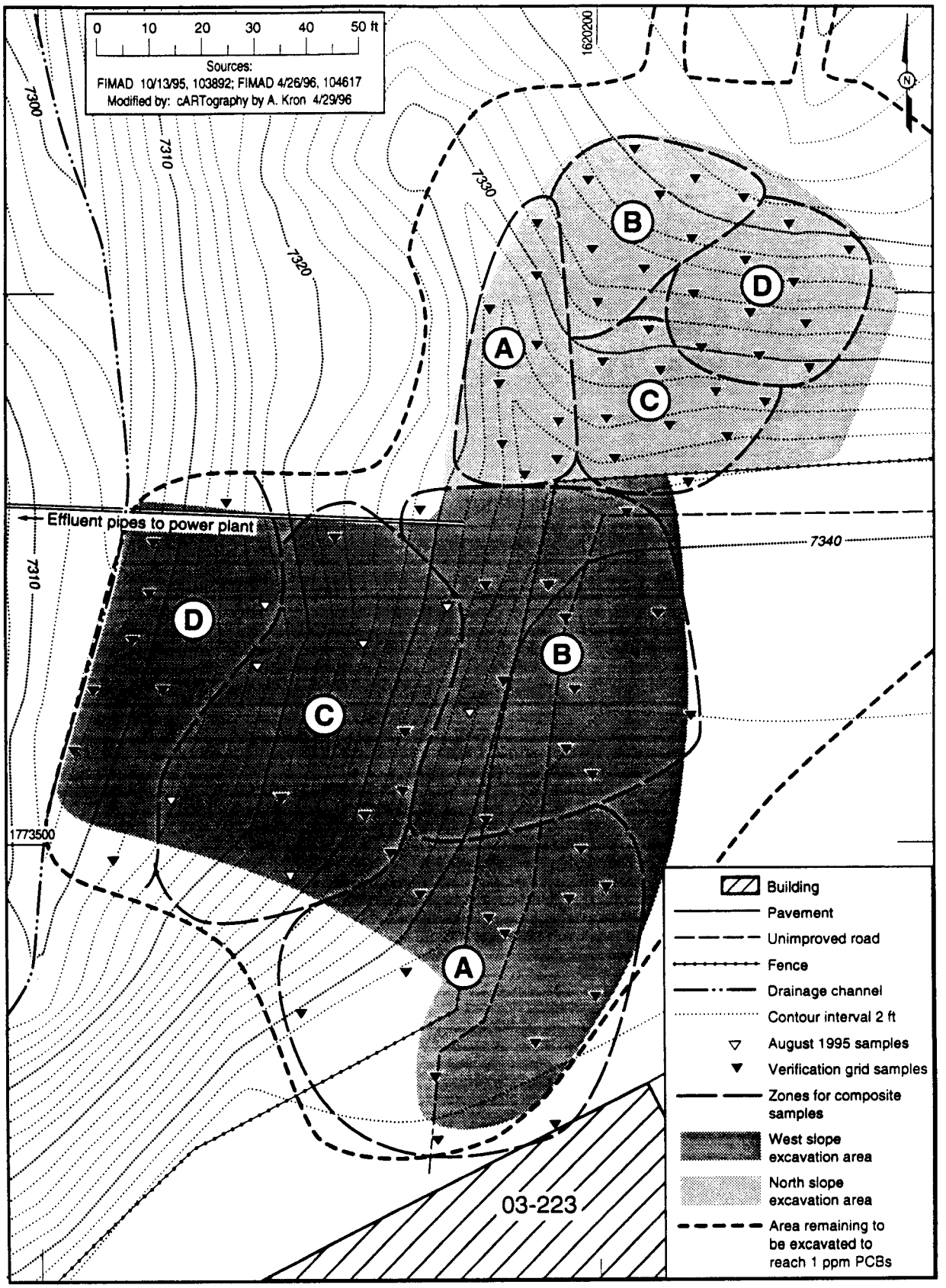

Fig. 7. Verification sample locations.

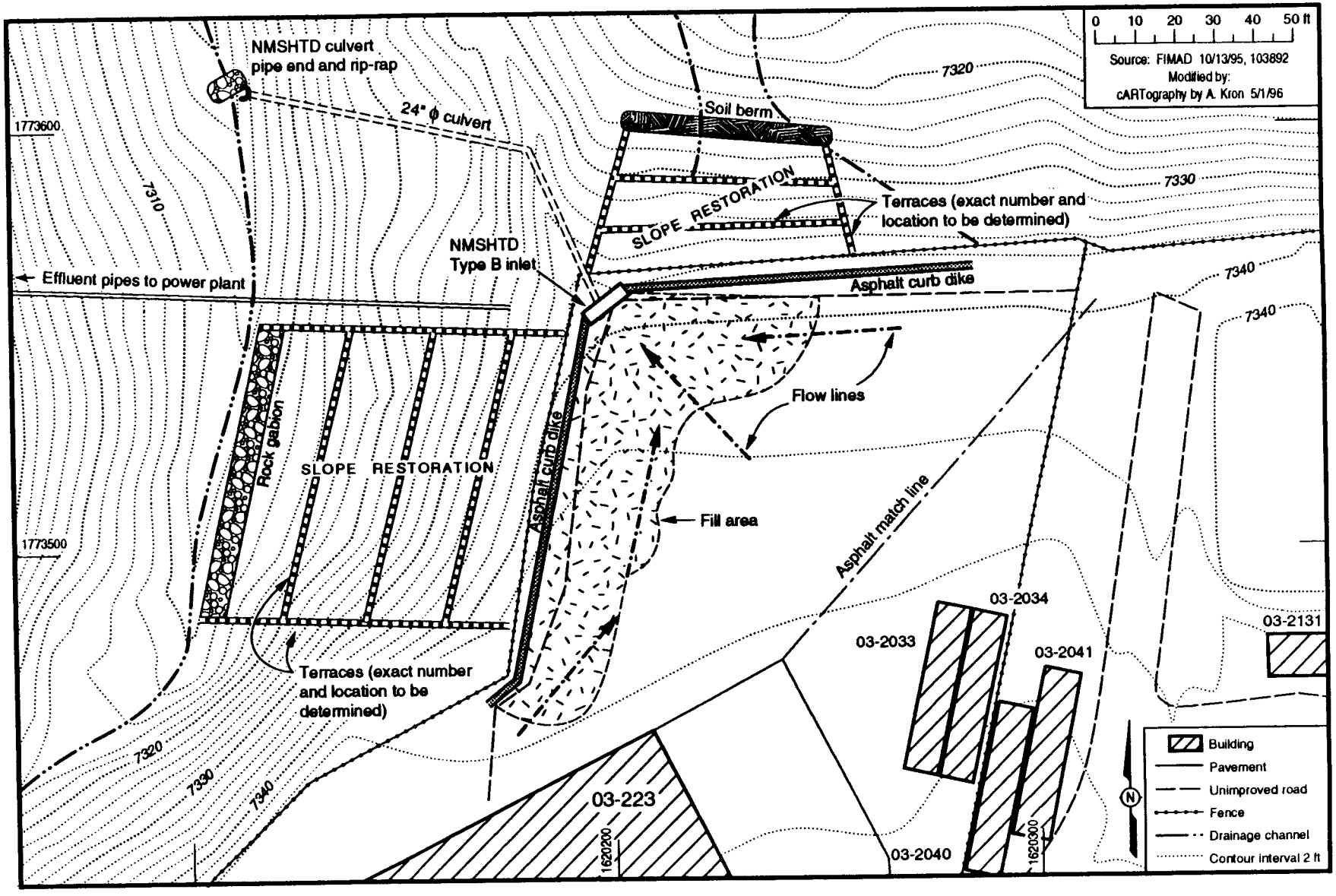

Fig. 8. Preliminary slope stabilization sketch.

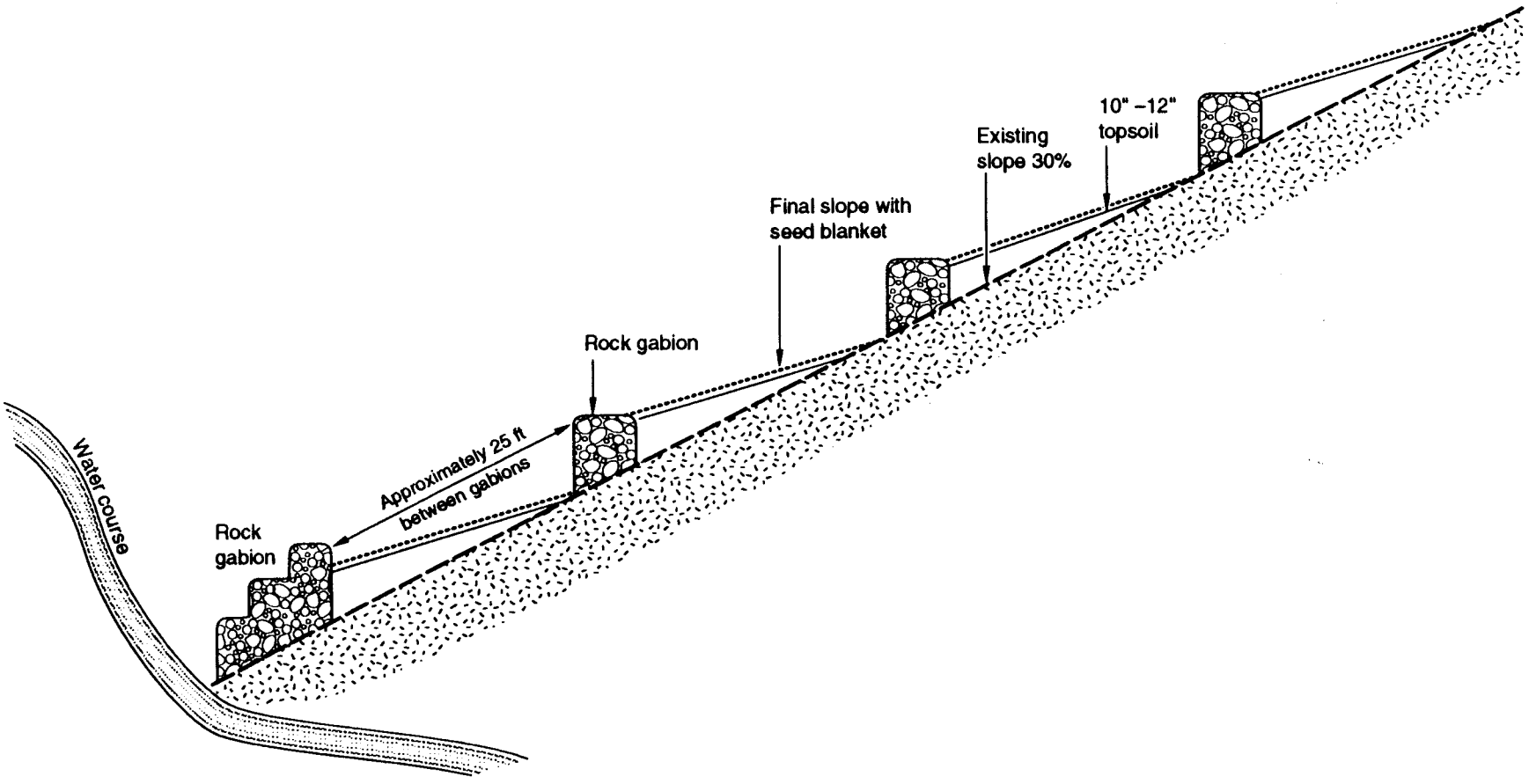

Fig. 9. Preliminary slope stabilization cross section.

Site-Specific Statement of Work for Capping and Slope Stabilization for PRS 3-056(c)

The work consists of two distinct phases, restoration of the slopes and replacement of the asphalt parking lot and storage area, including fencing.

Phase 1, Slope Restoration:

1. Contractor must complete a site inspection and propose volume of soil needed to apply to slope for revegetation purposes. Estimate volume to cover two adjacent areas (100' x 60') and (50' x 50'). Assume at least 10 - 12 inches of top soil needed. Topsoil shall have a minimum of 30% organic material (leaves, manure, and/or dead vegetation).

2. All slopes will require erosion control measures. In all cases, Contractor must specify the engineered slope stabilization techniques to promote vegetation and reduce erosion. Reducing the slope to 20% or less lessens the potential for erosion. Slopes of 20% or less may be stabilized using seeding and Curlex blankets (seed blankets). Slopes up to 40% will require terracing to reduce the terrace slope to 20% or less.

   Assuming the original slope is approximately 40%, a slope with a 100-foot length, four terraces shall be constructed to attain slopes of 20% or less on the individual terraces. Terraces will be constructed with permeable rock gabions to allow for storm wate flow down slope through the gabions. The gabions shall be combined with toe drains (1 foot deep and 18 inches wide) downstream of the terraces to facilitate sediment settlement of any flow through the gabions. At steeper slopes, or where the use of gabion terracing to reduce the bench slope to 20% becomes impractical, gabions may be combined with additional benching and drainage between the gabions to reduce the drainage length across the slope. In these cases, a rip-rap channel, or similar, will be required to transport the storm water flow diverted across the slope face down to the stream. A suggested slope terracing scheme is shown on the following figure.

   Prior to vegetation becoming established, additional measures will be required to prevent sedimentation of the stream. The existing silt fence and straw bales will be removed along the eastern edge of the tributary to Sandia Canyon and replaced by a rock gabion, visual monitoring will be required until the new vegetation reaches 70% of its natural cover. Hay bales and/or silt fencing may have to be replaced at this location is sediment movement through the upper gabions is substantial.

   Contractor will follow the provided sketch of the proposed slope stabilization, including cross section details, which shows approximate locations of rock gabions. Contractor shall verify all actual field dimensions prior to the bid proposal.

Contractor shall state if plan will need periodic maintenance and provide the maintenance details upon submittal of the bid proposal. All plans will be reviewed by ESH-18 storm water pollution prevention plan team, and FSS-8, Engineering. LANL landscape requires that reseeding follow Civil Engineering. Standards 216.7 with a suggested medium maintenance zone mixture.

Suggested source for seed blankets:
American Excelsior Company
4019 Edith Blvd. NE
PO Box 6879
Albuquerque, NM 87197-6879
505-345-3459

216.6.3 - Medium maintenance zones are visually important areas where pedestrian use is moderate. In general, medium maintenance zones are transition zones between the intensive landscaping of the high maintenance zone, and the low maintenance zones. Plants in medium maintenance zones should require only monthly or seasonal maintenance. The plant selection shall emphasize plant species that have a proven history of low maintenance and drought tolerance. Irrigation may or may not be included.

216.6.4 - Low maintenance zones are the remaining portions of the project site which are not in the high or medium vegetation. Revegetate low maintenance zones or landscape for erosion and drainage control. Landscape low maintenance zones in a manner that allows them to be treated as native vegetation requiring little or no maintenance. Limit plants to natives and drought tolerant ornamentals that are acclimated to existing environmental conditions. Irrigation normally will not be provided.

216.7.3 - Seeding mixtures and rates for medium maintenance zones: The areas under this category can be irrigated or non-irrigated. The standard seed mix is as follows:

3% - 7%	Sand Dropped
8% - 12%	Galleta Grass
6% - 10%	Alkali Sacaton
10% - 14%	Sideoats Grama
13% - 17%	Indian Ricegrass
18% - 22%	Sheep Fescue
8% - 12%	Blue Grama
18% - 22%	Western Wheatgrass

Suggested grass mixture by FSS-8

3. Contractor shall provide evidence that soil used for backfill is from a non-contaminated source.

4. Contractor shall remove all debris associated with remediation activities to the county landfill (plastic sheeting, cut shrubbery and trees, old asphalt, and PPE).

Phase 2, Restoration of the Parking Lot and Storage Area, including Fencing:

5. Contractor shall recontour the mesa top to direct surface water drainage to the northwest corner drop inlet, as shown on the following figure. Contractor shall complete a geodetic survey of the area, prepare a drainage sketch, including drop inlet location, and submit the sketch for University approval prior to the start of work. Care shall be taken to avoid the power plant effluent return lines visible along the northwest slope. Contractor shall be responsible for all needed surveying services. Contractor shall stake final grade prior to the placement of the base course to assure proper surface drainage flow.

6. Contractor shall place an NMSHTD Plan Type B drop inlet (reference attached NMSHTD standards) at the northwest corner of the storage area. Contractor shall stipulate a lump sum price for the drop inlet. The use of a prefabricated drop inlet is permitted provided that the section joints are sealed when assembled.

7. Contractor shall drain the drop inlet using an 24" culvert. The culvert shall discharge as shown on the site sketch, into a NMSHTD culvert pipe end section lined with rip-rap. Contractor shall stipulate a lump sum price, including rip-rap, for the pipe end section.

8. Contractor shall install the culvert as shown on the site sketch. Contractor shall stipulate an unit price per lineal foot for culvert excavation, installation, and site restoration. Contractor shall compact the structural backfill (sand) to 95% relative compaction. Contractor shall be responsible for needed geodetic survey services to stake the culvert grade to assure its proper drainage into Sandia Canyon.

9. Contractor shall place 6" of base course and 3" of asphalt to cover the packing lot/storage area. Contractor shall stipulate an unit price per square foot for the placement, compaction, and site restoration of the parking lot/storage area. The base course shall be graded in accordance with the University approved site grading plan and compacted to 95% relative compaction.

10. Contractor shall replace the perimeter fencing as shown on the attached site sketch. Contractor shall stipulate a unit price per lineal foot of fencing.

Special Provisions:

All references to the New Mexico State Highway and Transportation Department are indicated by the acronym NMSHTD and refer to the Standard Specifications for Highway and Bridge Construction.

The subbase and base course shall be compacted to 95% relative compaction: reference AASHTO T 205, T 238, and T 239.

Asphalt shall be in accordance with NMSHTD Type II, reference Section 401 Plant Mixed Bituminous Pavement.

Base course shall be NMSHTD Type III-SB or IV-SB, reference Section 304, Base course and subbase.

Prior to any changes being made to the actual restoration configuration, the contractor shall contact the University Technical Representative to allow for FSS-8, Roads and Grounds, Ed Hoth, 665-6002, input to any changes.

APPENDIX C

Proposed Storm Water Runoff Sampling Plan for PRS 3-056(c)

Data shall be reported for either a grab sample or composite sample, or both types of samples, depending on water flow. All such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The grab sample shall be taken during the first thirty minutes of the discharge. The composite sample shall either be flow-weighted or time-weighted. Composite samples will be taken with a continuous sampler for the entire discharge, or for the first three hours of the discharge, with each aliquot being separated by a minimum period of fifteen minutes. NMED will be provided notification of sampling events and afforded the opportunity to split these samples.

Samples will be collected and analyzed in accordance with 40 CFR 136 for PCBs.

Monitoring will be conducted on storm water discharges from within the designated boundaries of SWMU 3-056(c) prior to confluence with the stream course of Sandia Canyon. The number of drainages to be monitored is 3 (one from the west slope, and two from the northern drainage channels [one each]).

This location will be monitored for a minimum of eight quarters, if this monitoring shows conclusive evidence that no migration is occurring, no further sampling will be required. If this evidence is not conclusive additional monitoring will occur. If there is a no-flow condition, samples cannot be collected and the quarter will count towards the total. All analytical will be provided to the NMED/SWQB.

APPENDIX D

PRS 3-056(C) Current Costs by Activity

(8/95 - 4/96)

Description	Estimated "Acutal Costs" (italic = future work)				
	Subtotals	Rollins cost	MK cost	ERM cost	Lab Personnel
Current Costs for Soil Removal to10 ppm					
Write EC Plan and Modifications	$57,064.00			$45,724.00	$11,340.00
Remove Fencing/ Cut down trees on edge of slope	$22,259.00			$5,400.00	$16,859.00
Soil Loading (trackhoe and vacuum) Labor	$262,272.00	$128,388.00	$91,341.00	$35,743.00	$6,800.00
Soil Transportation	$261,130.00	$173,369.00	$87,761.00		
Disposal Costs	$181,507.00	$129,276.00	$52,231.00		
Sample Collection	$46,990.00			$46,990.00	
Sample Analyses	$184,567.00	$94,200.00			$90,367.00
Data Assessment/Valadation	$24,351.00			$19,653.00	$4,698.00
Waste Management	$16,521.00			$4,396.00	$12,125.00
Health & Safety Oversight/Field Planning & Management	$163,643.00			$110,712.00	$52,931.00
Total Cost of Current Work	$1,220,304.00	$525,233.00	$231,333.00	$268,618.00	$195,120.00
Future Work					
Future Slope Stabilization	*$174,274.00*		*$161,968.00*	*$6,800.00*	*$5,506.00*
Future Preparation of EC Report	*$40,000.00*			*$15,000.00*	*$25,000.00*
Total Cost of Future Work	*$214,274.00*	*$0.00*	*$161,968.00*	*$21,800.00*	*$30,506.00*
Total Cost of Current and Future Work	$1,434,578.00	$525,233.00	$393,301.00	$290,418.00	$225,626.00

Difficulties That Increased Costs at PRS 3-056(C); PCB Cleanup

Problem: Terrain
The PRS is located on a mesa top and two canyon sides (west and north) where sheet flow from storm water runoff traverses across to the stream channel below. The canon slopes are approximately 30 degrees on the west side, and 45 degrees (and greater) on the north. The distance from the mesa top to the stream is about 70 - 100 ft on the west side. The distance from the mesa top to the bottom of the slope (and end of contamination) on the north side is approximately 50 ft. There is only about 25 ft from the west slope edge of the canyon to the building directly adjacent to the site, and the non-confined area on the top of the mesa is approximately 75 ft x 75 ft.

Problem: Contractor
Rollins: Did not have the training records prior to the job (as they said they would) to start work on time. Resulted in 2-3 day start up delay. The job duration was greater than 10 days, therefore, the Rollins employees had to go to GET training class, which they failed the first time. Resulted in a 1 and 1/2 day delay.

Problem: Tree removal
Ownership of the Douglas fir, providing documentation to FSS that it was unhealthy or unstable, and that it had contamination within the roots, took considerable time (at least a week of unnecessary paperwork). The tree finally did come out, 2 day delay of activity while it was being cut down, when it could have been cut down prior to job start up.

Problem: RCRA/TSCA container
TSCA regulations require PCB contaminated soils to be stored in a DOT approved container. RCRA regulations do not allow RCRA contaminated soils to be stockpiled. Due to those two regulations, our operation was not as cost effective as it could have been. The ideal situation is to be able to excavate the contaminated material to a location that can be easily accessed by a front end loader, and end-dump dump trucks (they hold more than a dumpster). Once a sufficient quantity of soil is stockpiled (say 200 cu yds) it can be sampled in bulk to analytically define the soil pile for the waste manifest. Once the samples are back and all the paperwork complete the trucks can be called in, loaded in one day, and on their way. As the trucks are enroute another pile can be created and the process continued.

For our job, we had to put all excavated soil into containers. We started by loading 20 cu yd dumpsters. Only two dumpsters could be placed on the mesa top between the slope and the building due to the constricted area. Once the two dumpsters were filled we had to have a truck available to move them to a < 90 day RCRA regulated storage area while two empties were brought in to be filled up. The truckers get paid the same rate whether they are traveling with a load or waiting around to move dumpsters (if they are available for the wait-around-to-move-bins task to begin with). Each full bin was sampled for the waste profile sheet (WPF) and the chemical waste disposal request (CWDR) form. Once the results came back we could ship the bin. We had ten or twelve bins full before Rollins had truckers available to pick them up. It is a four or five day round trip to California were the mixed RCRA/TSCA waste had to go, there were no empty bins available until the truckers returned with the empties. When they did return,

we could fill them up two at a time, move them, sample them, fill out the paperwork for them to go offsite, before the truckers could leave again. This accrued a lot a demurrage (shuffle bins and wait around) time for the truckers, and a lot of wait around for empty bins to arrive time for the field crew. This process easily ate up six weeks.

In October we decided to change contractors, as we seemed to be spending lots of money with this contractor with no end in site. We were also having great difficulty finding a boundary for 1 ppm PCB, as specified by the regulatory agencies. For the two weeks operations were shut down to switch contractors, we better defined the 1ppm boundary, and talked with EPA. LANL presented both a human health risk assessment and an Eco risk assessment (very briefly) during the meeting with EPA. LANL followed-up the presentations with the written materials to EPA and NMED, including information on the SWMU 3-056(c) EC status (for which we received the NOD we are currently responding to). In the mean time, the new contractor came on board and removed another 200 cu yds of soil. Unfortunately we found that the heavy equipment (track hoe) moving up and down the 30 degree slope was cross contaminating the tuff with it's track. We ended up bringing in heavy duty vacuum equipment to eliminate that problem, but of course that created a new problem. As the weathered tuff was broken loose for vacuuming, the pieces were the size of small rocks, not like sand, and would continually clog the vacuum hose. It took another 20 working days to vacuum up the remaining contamination (200 cu yds) to a level of approximately 10 ppm.

Problem: TSCA "anti-dilution" rule
The anti dilution rule does not allow segregation of a waste stream into less than 50 ppm concentrations of PCBs, and greater than 50 ppm PCBs. Because we had listed waste (PCE) in the first 500 cu yds of the waste stream, and PCBs over 50 ppm (33,000 to be exact), we could not take the less than 50 ppm PCB contaminated part of the waste stream to a local landfill. Therefore, all waste had to be shipped to California (Kettleman Hills Landfill) for disposal at a large cost for transportation (more than disposal). After our status report update was distributed to EPA and NMED we were informed by EPA TSCA that special dispensation can be granted to allow a local landfill to accept the waste that is under 50 ppm PCB, and in effect was verbally granted per that telecon. However, we had contacted local (New Mexico) special waste landfills about taking the less than 50 ppm PCB waste and they did not want it. Perhaps a written dispensation from EPA TSCA would help.

Problem: NMED and EPA disagree with our ECO risk assessment outcome. Since the regulators are not familiar with the model we used in our ECO risk assessment, it has not been accepted as a believable tool.

APPENDIX E

PRS 3-056(c)
Estimated Costs for Soil Removal to 1 ppm PCB

Description	Estimated Costs			
	Subtotals	MK cost	ERM cost	Lab Personnel
Additional Costs for Soil Removal to 1ppm				
Soil Loading (trackhoe and vacuum) Labor	$398,556.00	$341,394.00	$47,562.00	$9,600.00
(Assume 54 Working days)				
Soil Transportation	$208,871.00	$208,871.00		
(Assume Kettleman Hills, CA)				
Disposal Costs	$124,310.00	$124,310.00		
(Assume <50 ppm PCB waste)				
Sample Collection	$35,680.00		$33,280.00	$2,400.00
Sample Analyses	$86,400.00			$86,400.00
(Assume 6 wks chem van + 40 Confirm.)				
Data Assessment/Valadation	$12,409.00		$8,867.00	$3,542.00
Waste Management	$7,509.00		$1,985.00	$5,524.00
Health & Safety Oversight/Field Planning & Management	$29,788.00		$25,068.00	$4,720.00
Grand Total	**$903,523.00**	**$674,575.00**	**$116,762.00**	**$112,186.00**

PRS 3-056(c)
Estimated Costs for Soil Removal to 1 ppm PCB

Description	Estimated Costs (with special EPA TSCA Dispensation*)			
	Subtotals	MK cost	ERM cost	Lab Personnel
Additional Costs for Soil Removal to 1ppm				
Soil Loading * (trackhoe and vacuum) Labor	$328,523.00	$281,530.00	$39,153.00	$7,840.00
(Assume 40 Working days)				
Soil Transportation	$22,100.00	$22,100.00		
(Assume local landfill)				
Disposal Costs **	$22,972.00	$22,972.00		
(Assume <50 ppm PCB waste)				
Sample Collection	$32,100.00		$29,850.00	$2,250.00
Sample Analyses	$73,900.00			$73,900.00
(Assume 5 wks chem van + 40 Confirm.)				
Data Assessment/Valadation	$10,978.00		$7,998.00	$2,980.00
Waste Management	$5,893.00		$1,295.00	$4,598.00
Health & Safety Oversight/Field Planning & Management	$25,015.00		$21,065.00	$3,950.00
Grand Total	**$521,481.00**	**$326,602.00**	**$99,361.00**	**$95,518.00**

* Assumption is that EPA TSCA will allow us to stockpile PCB waste soil prior to loading into dump trucks for disposal

** Assumption is that EPA TSCA will give special dispensation to use the Rio Rancho, New Mexico landfill

APPENDIX F

ANNOTATION OF INPUT USED TO SIMULATE THE TRANSPORT OF PCB'S FROM SWMU 3-056(C) INTO THE WETLAND PRESENT IN UPPER SANDIA CANYON

The regions noted below correspond to the drawing of the partial watershed draining upper Sandia Canyon at LANL as shown in Figure 6 of this response. The four channels identified in this input correspond to drainages from region 1, region 2, and into region 6 and region 8, respectively. The four animal type identified as animals 1-4 are invertebrates(grasshoppers), deer mice, coyotes, and mule deer, respectively. Repeating data for regions, channels, plants, and animals are noted as they appear in the input. Finally plant type identification numbers simulated are: 7 = warm season annual grasses and herbs, 8 = warm season perennial grasses and herbs, 15 = Ponderosa pine, 16 = cool season deciduous shrubs, 18 = cool season perennial grasses, 19 = cool season annual grasses and herbs.

```
    12.0000
number of years simulated
    1.00000
number of contaminants
    8.00000
number of regions
    1.00000      1.00000      0.000000E+00    1.00000
ZOOGRO gate open, ANIMAL gate open, HUMTRN gate closed, BIOPLT gate open
    6.00000      6.00000      6.00000      6.00000      6.00000      6.00000      6.00000
    6.00000
number of plant types simulated in each of 8 regions
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00   0.000000E+00 0.000000E+00
chronic/acute air contamination event gates in AIRAC closed for each of 8 regions
    1.00000      1.00000      1.00000      1.00000      1.00000      1.00000      1.00000
    1.00000
WATFLX gate opened for each of 8 regions
    1.00000      1.00000      1.00000      1.00000      1.00000      1.00000      1.00000
    1.00000
FORMAN gate opened for each of 8 regions
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00   0.000000E+00 0.000000E+00
AQUAT gate closed for each of 8 regions
    4.000      1.00000
day modulus and year modulus for output selection
*******************************************************************************
    555555.
CLIMAT identification number
    270.000      723.000
minimum and maximum solar radiation, Ly/day, for region 1
    90.0000
lag period, days, to Julian day of maximum solar radiation for region 1
    33.9000      68.4000
mean daily minimum and maximum temperatures, ° F. for region 1
    120.000
lag period, days, to Julian day of maximum temperature for region 1
    2.00000
mean monthly temperature standard deviation, ° F for region 1
```

0.200000
coefficent of variation for each precipitation event for region 1
7000.00
reference site elevation, ft amsl. Santa Fe, New Mexico for region 1
5.000000E-03
Lapse rate, ° F/ ft, for region 1
4.00000 4.00000 4.00000 4.00000 4.00000 3.00000 8.00000
9.00000 4.00000 4.00000 3.00000 4.00000
mean number of precipitation events at the study area for each month of the year for region 1
4.600000E-02 3.800000E-02 6.200000E-02 4.600000E-02 6.400000E-02 5.900000E-02
0.178000 0.216000 9.400000E-02 8.500000E-02 5.300000E-02 5.800000E-02
fraction of annual precipitation for each month of the year at the study area for region 1
18.0000
mean annual precipitation, inches, of region 1
7000.00
elevation, ft amsl, of region 1
0.000000E+00
temperature correction, 0 F., for latitudinal differences between reference site and region 1
138.000
number of frost-free days of region 1
37.0000
approximate latitude, degrees, of region 1
****
above input for region 2
270.000 723.000
90.0000
33.9000 68.4000
120.000
2.00000
0.200000
7000.00
5.000000E-03
4.00000 4.00000 4.00000 4.00000 4.00000 3.00000 8.00000
9.00000 4.00000 4.00000 3.00000 4.00000
4.600000E-02 3.800000E-02 6.200000E-02 4.600000E-02 6.400000E-02 5.900000E-02
0.178000
0.216000 9.400000E-02 8.500000E-02 5.300000E-02 5.800000E-02
18.0000
7000.00
0.000000E+00
138.000
37.0000
****
above input for region 3
270.000 723.000
90.0000
33.9000 68.4000
120.000
2.00000
0.200000
7000.00
5.000000E-03
4.00000 4.00000 4.00000 4.00000 4.00000 3.00000 8.00000
9.00000 4.00000 4.00000 3.00000 4.00000
4.600000E-02 3.800000E-02 6.200000E-02 4.600000E-02 6.400000E-02 5.900000E-02
0.178000
0.216000 9.400000E-02 8.500000E-02 5.300000E-02 5.800000E-02
18.0000

```
     7000.00
    0.000000E+00
     138.000
     37.0000
*****************************************************************************
above input for region 4
     270.000        723.000
     90.0000
     33.9000        68.4000
     120.000
     2.00000
    0.200000
     7000.00
    5.000000E-03
     4.00000        4.00000        4.00000        4.00000        4.00000        3.00000        8.00000
     9.00000        4.00000        4.00000        3.00000        4.00000
    4.600000E-02   3.800000E-02   6.200000E-02   4.600000E-02   6.400000E-02   5.900000E-02
0.178000
    0.216000       9.400000E-02   8.500000E-02   5.300000E-02   5.800000E-02
     18.0000
     7000.00
    0.000000E+00
     138.000
     37.0000
*****************************************************************************
above input for region 5
     270.000        723.000
     90.0000
     33.9000        68.4000
     120.000
     2.00000
    0.200000
     7000.00
    5.000000E-03
     4.00000        4.00000        4.00000        4.00000        4.00000        3.00000        8.00000
     9.00000        4.00000        4.00000        3.00000        4.00000
    4.600000E-02   3.800000E-02   6.200000E-02   4.600000E-02   6.400000E-02   5.900000E-02
0.178000
    0.216000       9.400000E-02   8.500000E-02   5.300000E-02   5.800000E-02
     18.0000
     7000.00
    0.000000E+00
     138.000
     37.0000
*****************************************************************************
above input for region 6
     270.000        723.000
     90.0000
     33.9000        68.4000
     120.000
     2.00000
    0.200000
     7000.00
    5.000000E-03
     4.00000        4.00000        4.00000        4.00000        4.00000        3.00000        8.00000
     9.00000        4.00000        4.00000        3.00000        4.00000
    4.600000E-02   3.800000E-02   6.200000E-02   4.600000E-02   6.400000E-02   5.900000E-02
0.178000
```

```
   0.216000      9.400000E-02   8.500000E-02   5.300000E-02   5.800000E-02
    18.0000
    7000.00
   0.000000E+00
    138.000
    37.0000
*****************************************************************************
above input for region 7
    270.000       723.000
    90.0000
    33.9000       68.4000
    120.000
    2.00000
   0.200000
    7000.00
   5.000000E-03
    4.00000       4.00000       4.00000       4.00000       4.00000       3.00000       8.00000
    9.00000       4.00000       4.00000       3.00000       4.00000
   4.600000E-02   3.800000E-02   6.200000E-02   4.600000E-02   6.400000E-02   5.900000E-02
0.178000
   0.216000      9.400000E-02   8.500000E-02   5.300000E-02   5.800000E-02
    18.0000
    7000.00
   0.000000E+00
    138.000
    37.0000
*****************************************************************************
above input for region 8
    270.000       723.000
    90.0000
    33.9000       68.4000
    120.000
    2.00000
   0.200000
    7000.00
   5.000000E-03
    4.00000       4.00000       4.00000       4.00000       4.00000       3.00000       8.00000
    9.00000       4.00000       4.00000       3.00000       4.00000
   4.600000E-02   3.800000E-02   6.200000E-02   4.600000E-02   6.400000E-02   5.900000E-02
0.178000
   0.216000      9.400000E-02   8.500000E-02   5.300000E-02   5.800000E-02
    18.0000
    7000.00
   0.000000E+00
    138.000
    37.0000
*****************************************************************************
    141414.
identification number for WATFLX, part 1
    0.00000       0.00000
effect of pH on contaminant uptake gate closed, effect of clay on contaminant uptake closed
    4.00000
number of channels in watershed
    3.00000
year number for initiation of watershed events
    1.00000
aquifer gate opened
   0.900000      0.100000      0.100000      0.100000      0.100000      0.000000E+00
```

0.100000
0.000000E+00
for each of 8 regions enter the fraction of the surface which is impervious to moisture
****
888888.
GEOFLX identification number
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
hydraulic conductivity , inches/hr, for each channel: a value of 0.0 defaults to 3.0 inches/hr
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
flow duration constant, hr, for each channel: a value of 0.0 defaults to 2.53 hours
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
flow duration exponent for each channel: a value of 0.0 defaults to 0.2
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
constant for determining for determining peak flow, ft^3/sec, for each channel: a value of 0.0 defaults to a value of 4.84
****
6.200000E-02 0.125000 0.250000 0.500000 1.00000 2.00000 4.00000
seven diameter classes, mm, for the sediment in channel 1
0.900000
median diameter of sediment, mm, in channel 1
1.500000E-02 5.000000E-03 5.000000E-02 0.120000 0.390000 0.370000
5.000000E-02
mass fraction for seven diameter classes in channel 1
0.000000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000
initial contaminant concentration , ppm, in the seven diameter classes in channel 1
****
above input for channel 2
6.200000E-02 0.125000 0.250000 0.500000 1.00000 2.00000 4.00000
0.900000
1.500000E-02 5.000000E-03 5.000000E-02 0.120000 0.390000 0.370000
5.000000E-02
0.00000 0.00000 0.00000 0.00000 0.000000 0.00000 0.00000
****
above input for channel 3
6.200000E-02 0.125000 0.250000 5.00000 1.00000 2.00000 4.00000
0.900000
1.500000E-02 5.000000E-03 5.000000E-02 0.120000 0.390000 0.370000
5.000000E-02
0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
****
above input for channel 4
6.200000E-02 0.125000 0.250000 0.500000 1.00000 2.00000 4.00000
0.900000
1.500000E-02 5.000000E-03 5.000000E-02 0.120000 0.390000 0.370000
5.000000E-02
0.000000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
****
0.000000E+00 0.000000E+00 2.00000 1.00000
number of channels tributary to each of 4 channels
1.00000 1.00000 1.00000 1.00000
number of lateral surfaces entering each of 4 channels
9.00000 10.0000
channels tributary to channel 3; channel numbers begin in sequence after regions.. numbers 9 and 10 correspond to channels 1 and 2, respectively
11.0000
channel tributary to channel 4; correponds to channel 3
1.00000
region draining into channel 1

2.00000
region draining into channel 2
6.00000
region draining into channel 3
8.00000
region draining into channel 4
0.000000E+00 0.000000E+00 6.00000 8.00000
region numbers where shallow aquifers are present below attached channel
3.00000 3.00000 24.0000 43.0000
top posterior channel width, ft, for each of 4 channels
1.50000 1.50000 14.0000 21.0000
bottom posterior channel width, ft, for each of 4 channels
2.00000 2.00000 6.00000 15.0000
posterior channel height, ft, for each of 4 channels
6.00000 6.00000 15.0000 36.0000
anterior channel height, ft, for each of 4 channels
24.0000 24.0000 43.0000 191.000
top anterior channel width, ft, for each of 4 channels
14.0000 14.0000 21.0000 46.0000
bottom anterior channel width, ft, for each of 4 channels
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
initial aquifer volume, ft^3, beneath each of 4 channels: 0.0 entered also if aquifer not present
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 2.00000
0.000000E+00 2.00000
number of regions contributing runoff sediment to each of 8 regions
3.00000 4.00000
regions contributing sediment to region 6
5.00000 7.00000
regions contributing sediment to region 8
112.0 2.1 8.4 18.8 22.5 2.3 56.2 16.9
area, acres for each of 8 regions
****
6.200000E-02 0.125000 0.250000 0.500000 1.00000 2.00000 4.00000
seven soil diameter classes, mm, for region 1
0.130000
median soil diameter, mm, for region 1
0.420000 9.000000E-02 0.100000 0.120000 0.160000 0.100000
1.00000E-02
mass fractions for seven diameter classes for region 1
7*0.0
initial contaminant concentration ,ppm, in soil of region 1
****
above input for region 2
6.200000E-02 0.125000 0.250000 0.500000 1.00000 2.00000 4.00000
0.130000
0.420000 9.000000E-02 0.100000 0.120000 0.160000 0.100000
1.00000E-02
7*1.0
****
above input for region 3
6.200000E-02 0.125000 0.250000 0.500000 1.00000 2.00000 4.00000
0.130000
0.420000 9.000000E-02 0.100000 0.120000 0.160000 0.100000
1.00000E-02
7*0.0
****
above input for region 4
6.200000E-02 0.125000 0.250000 0.500000 1.00000 2.00000 4.00000

0.130000
0.420000 9.000000E-02 0.100000 0.120000 0.160000 0.100000
1.00000E-02
7*0.0
****
above input for region 5
6.200000E-02 0.125000 0.250000 0.500000 1.00000 2.00000 4.00000
0.130000
0.420000 9.000000E-02 0.100000 0.120000 0.160000 0.100000
1.00000E-02
7*0.0
****
above input for region 6
6.200000E-02 0.125000 0.250000 0.500000 1.00000 2.00000 4.00000
0.130000
0.420000 9.000000E-02 0.100000 0.120000 0.160000 0.100000
1.00000E-02
7*0.0
****
above input for region 7
6.200000E-02 0.125000 0.250000 0.500000 1.00000 2.00000 4.00000
0.130000
0.420000 9.000000E-02 0.100000 0.120000 0.160000 0.100000
1.00000E-02
7*0.0
****
above input for region 8
6.200000E-02 0.125000 0.250000 0.500000 1.00000 2.00000 4.00000
0.130000
0.420000 9.000000E-02 0.100000 0.120000 0.160000 0.100000
1.00000E-02
7*0.0
****
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00 0.000000E+00 0.000000E+00
flow duration constant, hr, for each region: a value of 0.0 defaults to 2.53 hours
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00 0.000000E+00 0.000000E+00
flow duration exponent for each region: a value of 0.0 defaults to 0.2
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00 0.000000E+00 0.000000E+00
constant for determining for determining peak flow, ft^3/sec, for each region: a value of 0.0 defaults to a value of 4.84
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00 0.000000E+00 0.000000E+00
soil erodability factor (K) for the MUSLE equation for each of 8 regions: a value of 0.0 defaults to 0.2
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00 0.000000E+00 0.000000E+00
cover and management factor (C) for the MUSLE equation for each of 8 regions: 0.0 defaults to 0.1
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00 0.000000E+00 0.000000E+00
erosion control practice factor (P) for the MUSLE equation for each of 8 regions: 0.0 defaults to 1.0
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00 0.000000E+00 0.000000E+00
slope length factor (L) for the MUSLE equation for each of 8 regions: 0.0 defaults to 1.0
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00 0.000000E+00 0.000000E+00
hydraulic conductivity, inches/hr, for each of 8 regions: 0.0 defaults to 2.0 inches/hr

****
7.000000E-02 0.300000 0.100000 0.100000 0.100000 4.800000E-02
0.100000
3.900000E-02 1.00000
slope for each of 8 region plus an index (last entry)
3.000000E-02 3.000000E-02 3.000000E-02 3.000000E-02 3.000000E-02 3.000000E-02
3.000000E-02 3.000000E-02 1.00000
Manning's roughness coefficient for soil of each 8 regions plus an index(last entry)
0.28000 0.034000 0.45507 0.45507 0.45507 0.45507
0.45507 0.45507
channel length ,mi, for each of 8 regions: if region does not have a channel, then length of contact with a bordering region is entered.
0.280000 0.03400 0.45507 0.45507
channel length, mi, for each of 4 channels
3.00000 3.00000 3.00000 3.00000 1.00000
runoff channel width, feet, for each of 4 channels plus an index
4.600000E-02 1.500000E-01 4.800000E-02 3.900000E-02 1.00000
slope of each channel for each of 4 channels plus an index
3.000000E-02 3.000000E-02 3.000000E-02 3.000000E-02 1.00000
Manning's roughness coefficient for each of 4 channels plus an index
8960.00 0.000000 31800.0 0.000000E+00
mean perennial flow, ft3/sec, for each of 4 channels. sources may include outfalls from treatment plants
****
151515.
identification number for WATFLX, part 2
107.0000 7.00000 7.00000 15.0000 15.0000 19.0000
atomic/ identification number for 6 substance, the value 107 is an identification number for PCB's, others are for nutrients, NO_3^-, NH_4^+, PO_4^{-3} (labile), PO_4^{-3} (soluble), and for K^{+1}
328.000 14.0000 14.0000 31.0000 31.0000 39.1000
molecular weight for 6 substances: 328 is mean molecular weight of PCB's, others refer to atomic weight of N, P, and K
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
half-life or persistence of each of 6 substances: 0.0 indicates stability. input conservatively assumes that PCB's are stable in the environment
****
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
root fraction entry gate for each of 6 plant type simulated closed: root fractions by soil horizon estimated internally for region 1
4.00000 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
contaminant units gate for each of 6 substances, a value of 4.0 for PCB's assumes ug/gdwt in soil; 0.0 defaults to internal values .. g/gdwt, for region 1
1.00000 1.00000 1.00000 1.00000 1.00000 1.00000
year that concentrations each of 6 substances take effect in the simulation
1.00000 1.00000 1.00000 1.00000 1.00000 1.00000
Julian day number that concentration of each of 6 substances takes effect in region 1
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
drinking water concentration for each of 6 substances g/l for ppm in soil, ug/l for ug/g in soil ..etc. in region 1
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
plant/soil uptake ratios for each of 6 substance; 0.0 defaults to internally supplied values if available. PCB's ratio is estimated in ECOTRAN using the octanol/water ratio K_{ow} in region 1
3.00000 -1.00000 -1.00000 -1.00000 -1.00000 -1.00000
number of soil horizons for each of 6 plant types; a -1.0 indicates that a specific plant type has the same number of soil horizons and soil characteristics as plant type 1 in region 1

```
    420.000      420.000      420.000      420.000      420.000      420.000
depth of soil,mm, for each of 6 plant types in region 1
    20.0000      150.000      250.000
depth of soil horizon,mm for 3 layers for 6 plant types in region 1
    0.100000     0.100000     0.100000
rock fraction in 3 layers for 6 plant types in region 1
    0.390000     0.390000     0.430000
sand fraction in three layers for 6 plant types in region 1
    0.360000     0.360000     0.300000
silt fraction in three layers 6 plant types in region 1
    0.150000     0.150000     0.170000
clay fraction in three layers for 6 plant types in region 1
    13.0000      13.0000      13.0000
wilt point, percent soil moisture, in three layers for 6 plant types in region 1
    38.0000      38.0000      32.0000
holding capacity, percent soil moisture, in three layers for 6 plant types in region 1
    33.0000      33.0000      28.0000
field capacity, percent soil moisture, in three layers for 6 plant types in region 1
    6.10000      6.60000      6.10000
soil pH in three layers for 6 plant types in region 1
    0.000000     0.000000     0.000000
initial contaminant concentration, ug/gdwt, in three layers of plant type 1 in region 1
    0.000000     0.000000     0.000000
initial contaminant concentration, ug/gdwt, in three layers of plant type 2 in region 1
    0.000000     0.000000     0.000000
initial contaminant concentration, ug/gdwt, in three layers of plant type 3 in region 1
    0.000000     0.000000     0.000000
initial contaminant concentration, ug/gdwt, in three layers of plant type 4 in region 1
    0.000000     0.000000     0.000000
initial contaminant concentration, ug/gdwt, in three layers of plant type 5 in region 1
    0.000000     0.000000     0.000000
initial contaminant concentration, ug/gdwt, in three layers of plant type 6 in region 1
*******************************************************************************
repeat above input for region 2
    0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
    4.00000      0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
    1.00000      1.00000      1.00000      1.00000      1.00000      1.00000
    1.00000      1.00000      1.00000      1.00000      1.00000      1.00000
    0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
    0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
    3.00000     -1.00000     -1.00000     -1.00000     -1.00000     -1.00000
    420.000      420.000      420.000      420.000      420.000      420.000
    20.0000      150.000      250.000
    0.100000     0.100000     0.100000
    0.390000     0.390000     0.430000
    0.360000     0.360000     0.300000
    0.150000     0.150000     0.170000
    13.0000      13.0000      13.0000
    38.0000      38.0000      32.0000
    33.0000      33.0000      28.0000
    6.10000      6.60000      6.10000
    1.000000     1.000000     0.000000
    1.000000     1.000000     0.000000
    1.000000     1.000000     0.000000
    1.000000     1.000000     0.000000
```

```
   1.000000      1.000000      0.000000
   1.000000      1.000000      0.000000
*****************************************************************************
repeat above input for region 3
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   4.00000      0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   1.00000      1.00000      1.00000      1.00000      1.00000      1.00000
   1.00000      1.00000      1.00000      1.00000      1.00000      1.00000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   3.00000      -1.00000      -1.00000      -1.00000      -1.00000      -1.00000
   420.000      420.000      420.000      420.000      420.000      420.000
   20.0000      150.000      250.000
   0.100000      0.100000      0.100000
   0.390000      0.390000      0.430000
   0.360000      0.360000      0.300000
   0.150000      0.150000      0.170000
   13.0000      13.0000      13.0000
   38.0000      38.0000      32.0000
   33.0000      33.0000      28.0000
   6.10000      6.60000      6.10000
   0.000000      0.000000      0.000000
   0.000000      0.000000      0.000000
   0.000000      0.000000      0.000000
   0.000000      0.000000      0.000000
   0.000000      0.000000      0.000000
   0.000000      0.000000      0.000000
*****************************************************************************
repeat above input for region 4
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   4.00000      0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   1.00000      1.00000      1.00000      1.00000      1.00000      1.00000
   1.00000      1.00000      1.00000      1.00000      1.00000      1.00000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   3.00000      -1.00000      -1.00000      -1.00000      -1.00000      -1.00000
   420.000      420.000      420.000      420.000      420.000      420.000
   20.0000      150.000      250.000
   0.100000      0.100000      0.100000
   0.390000      0.390000      0.430000
   0.360000      0.360000      0.300000
   0.150000      0.150000      0.170000
   13.0000      13.0000      13.0000
   38.0000      38.0000      32.0000
   33.0000      33.0000      28.0000
   6.10000      6.60000      6.10000
   0.000000      0.000000      0.000000
   0.000000      0.000000      0.000000
   0.000000      0.000000      0.000000
   0.000000      0.000000      0.000000
   0.000000      0.000000      0.000000
   0.000000      0.000000      0.000000
```

```
*****************************************************************************
repeat above input for region 5
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
    4.00000      0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
    1.00000      1.00000        1.00000        1.00000        1.00000        1.00000
    1.00000      1.00000        1.00000        1.00000        1.00000        1.00000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
    3.00000      -1.00000       -1.00000       -1.00000       -1.00000       -1.00000
    420.000      420.000        420.000        420.000        420.000        420.000
    20.0000      150.000        250.000
   0.100000      0.100000       0.100000
   0.390000      0.390000       0.430000
   0.360000      0.360000       0.300000
   0.150000      0.150000       0.170000
    13.0000      13.0000        13.0000
    38.0000      38.0000        32.0000
    33.0000      33.0000        28.0000
    6.10000      6.60000        6.10000
   0.000000      0.000000       0.000000
   0.000000      0.000000       0.000000
   0.000000      0.000000       0.000000
   0.000000      0.000000       0.000000
   0.000000      0.000000       0.000000
   0.000000      0.000000       0.000000
*****************************************************************************
repeat above input for region 6
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
    4.00000      0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
    1.00000      1.00000        1.00000        1.00000        1.00000        1.00000
    1.00000      1.00000        1.00000        1.00000        1.00000        1.00000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
    3.00000      -1.00000       -1.00000       -1.00000       -1.00000       -1.00000
    420.000      420.000        420.000        420.000        420.000        420.000
    20.0000      150.000        250.000
   0.100000      0.100000       0.100000
   0.390000      0.390000       0.430000
   0.360000      0.360000       0.300000
   0.150000      0.150000       0.170000
    13.0000      13.0000        13.0000
    38.0000      38.0000        32.0000
    33.0000      33.0000        28.0000
    6.10000      6.60000        6.10000
   0.000000      0.000000       0.000000
   0.000000      0.000000       0.000000
   0.000000      0.000000       0.000000
   0.000000      0.000000       0.000000
   0.000000      0.000000       0.000000
   0.000000      0.000000       0.000000
*****************************************************************************
repeat above input for region 7
```

```
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   4.00000      0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   1.00000      1.00000        1.00000        1.00000        1.00000        1.00000
   1.00000      1.00000        1.00000        1.00000        1.00000        1.00000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   3.00000      -1.00000       -1.00000       -1.00000       -1.00000       -1.00000
   420.000      420.000        420.000        420.000        420.000        420.000
   20.0000      150.000        250.000
   0.100000     0.100000       0.100000
   0.390000     0.390000       0.430000
   0.360000     0.360000       0.300000
   0.150000     0.150000       0.170000
   13.0000      13.0000        13.0000
   38.0000      38.0000        32.0000
   33.0000      33.0000        28.0000
   6.10000      6.60000        6.10000
   0.000000     0.000000       0.000000
   0.000000     0.000000       0.000000
   0.000000     0.000000       0.000000
   0.000000     0.000000       0.000000
   0.000000     0.000000       0.000000
   0.000000     0.000000       0.000000
**************************************************************************************
repeat above input for region 8
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   4.00000      0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   1.00000      1.00000        1.00000        1.00000        1.00000        1.00000
   1.00000      1.00000        1.00000        1.00000        1.00000        1.00000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   3.00000      -1.00000       -1.00000       -1.00000       -1.00000       -1.00000
   420.000      420.000        420.000        420.000        420.000        420.000
   20.0000      150.000        250.000
   0.100000     0.100000       0.100000
   0.390000     0.390000       0.430000
   0.360000     0.360000       0.300000
   0.150000     0.150000       0.170000
   13.0000      13.0000        13.0000
   38.0000      38.0000        32.0000
   33.0000      33.0000        28.0000
   6.10000      6.60000        6.10000
   0.000000     0.000000       0.000000
   0.000000     0.000000       0.000000
   0.000000     0.000000       0.000000
   0.000000     0.000000       0.000000
   0.000000     0.000000       0.000000
   0.000000     0.000000       0.000000
**************************************************************************************
   121212.
identification number for PLTGRO
**************************************************************************************
```

1.00000
plant succession gate open for region 1
1.00000
plant niche competition gate open for region 1
1.00000
advanced succession gate open for region 1
15.0000 16.0000 8.00000 18.0000 7.00000 19.0000
plant types simulated in region 1 (see table 16.2 in ECOTRAN documentation for identification
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
number of water applications from irrigation for each plant type of region 1
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
number of harvest dates for each plant type of region 1
2.00000 1.00000 1.00000 1.00000 1.00000 1.00000
FORMAN gate open for plant 1; all others are closed
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
harvest/irrigation gate closed for all plant types in region 1
0.000000E+00 0.000000E+00 1.00000 1.00000 2.00000 2.00000
niche competition pairs gate 3-4, and 5-6 matched; all others excluded
246.000 246.000 246.000 246.000 246.000 246.000
area, acres for all plants in region 1
****
repeat above input for region 2
1.00000
1.00000
1.00000
15.0000 16.0000 8.00000 18.0000 7.00000 19.0000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
2.00000 1.00000 1.00000 1.00000 1.00000 1.00000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
0.000000E+00 0.000000E+00 1.00000 1.00000 2.00000 2.00000
72.0000 72.0000 72.0000 72.0000 72.0000 72.0000
****
repeat above input for region 3
1.00000
1.00000
1.00000
15.0000 16.0000 8.00000 18.0000 7.00000 19.0000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
2.00000 1.00000 1.00000 1.00000 1.00000 1.00000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
0.000000E+00 0.000000E+00 1.00000 1.00000 2.00000 2.00000
56.4000 56.4000 56.4000 56.4000 56.4000 56.4000
****
repeat above input for region 4
1.00000
1.00000
1.00000

```
    15.0000        16.0000        8.00000        18.0000        7.00000        19.0000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
    2.00000        1.00000        1.00000        1.00000        1.00000        1.00000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00    1.00000        1.00000        2.00000        2.00000
    56.4000        56.4000        56.4000        56.4000        56.4000        56.4000
*****************************************************************************************
repeat above input for region 5
    1.00000
    1.00000
    1.00000
    15.0000        16.0000        8.00000        18.0000        7.00000        19.0000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
    2.00000        1.00000        1.00000        1.00000        1.00000        1.00000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00    1.00000        1.00000        2.00000        2.00000
    28.0000        28.0000        28.0000        28.0000        28.0000        28.0000
*****************************************************************************************
repeat above input for region 6
    1.00000
    1.00000
    1.00000
    15.0000        16.0000        8.00000        18.0000        7.00000        19.0000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
    2.00000        1.00000        1.00000        1.00000        1.00000        1.00000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00    1.00000        1.00000        2.00000        2.00000
    3.20000        3.20000        3.20000        3.20000        3.20000        3.20000
*****************************************************************************************
repeat above input for region 7
    1.00000
    1.00000
    1.00000
    15.0000        16.0000        8.00000        18.0000        7.00000        19.0000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
    2.00000        1.00000        1.00000        1.00000        1.00000        1.00000
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
0.000000E+00
   0.000000E+00   0.000000E+00    1.00000        1.00000        2.00000        2.00000
    28.0000        28.0000        28.0000        28.0000        28.0000        28.0000
*****************************************************************************************
repeat above input for region 8
    1.00000
```

1.00000
1.00000
15.0000 16.0000 8.00000 18.0000 7.00000 19.0000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
2.00000 1.00000 1.00000 1.00000 1.00000 1.00000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
0.000000E+00
0.000000E+00 0.000000E+00 1.00000 1.00000 2.00000 2.00000
6.90000 6.90000 6.90000 6.90000 6.90000 6.90000
****
131313.
identification number for UPTKE
0
number of plants to be included radioactive contaminant dose measurements
777777.
identification number for FORMAN
****
0.0
number of timber cuttings and/or forest fire events in region 1
2.00000
diameter class spacing, inches , for plant type 1 (Ponderosa pine) in region 1
0.300000
curvilinear regression coefficient (forced through zero) relating the square of the plant diameter, cm2, to mass of the tree, kgdwt for plant 1 in region 1
0.390000
specific gravity of oven dried wood for plant 1 in region 1
1.00000
regression coefficient relating crown diameter, feet, to bole diameter, inches for plant type 1 in region 1
0.000000E+00
initial tree density, acre-1, of plant type 1 in region 1; a value of 0.0 defaults to natural growth, all other values refer to an even-aged stand
****
repeat above input for region 2
0.000000E+00
2.00000
0.300000
0.390000
1.00000
0.000000E+00
****
repeat above input for region 3
0.000000E+00
2.00000
0.300000
0.390000
1.00000
0.000000E+00
****
repeat above input for region 4
0.000000E+00
2.00000
0.300000
0.390000
1.00000
0.000000E+00

```
*****************************************************************************
repeat above input for region 5
   0.000000E+00
    2.00000
   0.300000
   0.390000
    1.00000
   0.000000E+00
*****************************************************************************
repeat above input for region 6
   0.000000E+00
    2.00000
   0.300000
   0.390000
    1.00000
   0.000000E+00
*****************************************************************************
repeat above input for region 7
   0.000000E+00
    2.00000
   0.300000
   0.390000
    1.00000
   0.000000E+00
*****************************************************************************
repeat above input for region 8
   0.000000E+00
    2.00000
   0.300000
   0.390000
    1.00000
   0.000000E+00
*****************************************************************************
    222222.
identification number for ANIMAL
         4
number of animal types simulated
    -1.00000      -2.200000E-02  -16.0000       -114.000
mature weight for each of 4 animals; a negative value indicates that non-default partition coefficients for
PCB's will be used for all animal types. mature weight of insects is set to 1.0
*****************************************************************************
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
drinking water concentration, ppm of PCB's in region 1 for all animal types
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
region 2
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
```

```
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
region 3
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
region 4
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
region 5
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
region 6
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
region 7
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
   0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
region 8
*******************************************************************************
    1.00000        1.00000        1.00000        1.00000
number of feeding schedules (type of food and time periods) for each of 4 animals
   0.000000E+00    1.64000        4.93000        12.0000
mean life-span, years, for each of 4 animals. A value of 0.0 refers to insects (invertebrates)
*******************************************************************************
   0.000000E+00
enter number of years over which effects of a given radionuclide will be simulated for animal 1(insect)
   0.000000E+00
fraction of meat consumed from the study area . A value of 0.0 entered for herbivores for animal 1
    1.00000        0.500000        4.00000
total population size, fraction of population that are females, and population structure.  A value of 1.0 is
set for insects ; a value of 4.0 identifies a hyperbolic age structure for animal 1
    1.00000
fraction of area utilized by animal 1
   0.000000E+00
fraction of supplementary feed derived from study area for animal 1
    1.00000
number of yearly feeding intervals for animal 1....diet changes
```

1.00000
number of daily feeding schedules for animal 1. generally set to 1 for wildlife
1.00000 0.000000E+00 0.000000E+00 0.000000E+00
maximum expected life-span, years; onset gestation period, number of gestation periods, and fraction of offspring during the first gestation period. A value of 1 set as maximum life-span for insects; all other variables not used for insects
4.00000 20.0000
yearly feeding interval for animal 1. Starts one year 4 and continues to year 20
1.00000 365.000
daily feeding interval for animal 1.
****
1.00000 1.00000
fraction of region 1 utilized (in duplicate)
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
fraction of diet from prey (animals 2-4) utilized by animal 1 in region 1
1.00000 1.00000
number of yearly intervals for changed feed schedules (in duplicate) for animal 1 in region 1
1.00000
number of changed feed schedules for animal 1 in region 1
4.00000
number of plant types used animal 1 in region 1
8.00000 18.0000 7.00000 19.0000
plant types utilized by animal 1 in region 1
1.00000 1.00000 2.00000 2.00000
plant feeding preference for 4 plants consumed by animal 1 in region 1
0.0126 0.0126 0.0084 0.0084
utilization fraction in the diet of animal 1 from region 1
****
repeat above for region 2 (skip lines 20,22)
1.00000 1.00000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
4.740000E-03 4.740000E-03 3.160000E-03 3.160000E-03
****
repeat above for region 3
1.00000 1.00000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
1.800000E-02 1.800000E-02 1.260000E-02 1.260000E-02
****
repeat above for region 4
1.00000 1.00000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 9.00000 19.0000
1.00000 1.00000 2.00000 2.00000
4.200000E-02 4.200000E-02 2.830000E-02 2.830000E-02
****
repeat above for region 5
1.00000 1.00000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000

5.080000E-02 5.080000E-02 3.390000E-02 3.390000E-02
****
repeat above for region 6
1.00000 1.00000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
5.190000E-03 5.190000E-03 3.460000E-03 3.460000E-03
****
repeat above for region 7
1.00000 1.00000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
1.270000E-01 1.270000E-01 8.460000E-02 8.460000E-02
****
repeat above for region 8
1.00000 1.00000
0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
3.800000E-02 3.800000E-02 2.540000E-02 2.540000E-02
****
sjunk
0.100000
deposition fraction for 1 um AMAD particles in N-P region of lung (upper trachea in insects)
0.100000
deposition fraction for 1 um AMAD particles in T-B region of lung (middle trachea in insects)
5.000000E-02
deposition fraction for 1 um AMAD particles in pulmonary region of lung (lower trachea in insects)
0.900000
gut-to-blood absorption coefficient, day^{-1}, for animal 1
0.8
blood-to-urine clearance fraction, day^{-1}, for animal 1 (malphigian tubule clearance from hemolymph in insects)
0.000000E+00
blood-to-milk secretion fraction, day^{-1}, for animal 1 (secretion to egg mass in insects). A value of 0.0 defaults to gut-to-blood value.
0.000000E+00
pulmonary-to-blood transport fraction, day-1, for animal 1 (lower trachea-to-hemolymph in insects). A value of 0.0 will default to 0.1/day
100.
alveoli-air /blood plasma partition coefficient for animal 1 (tracheal-air/hemolymph partition for insects)
0.000000E+00
transport fraction, day-1, of 1 um AMAD particles from N-P region to gut (not used for insects).
0.000000E+00
transport fraction, day-1 of 1 um AMAD particles from T-B region of lung to gut (not for insects).
-50.0000
fat/blood plasma partition coefficient for animal 1 (fat/hemolymph partition in insects). The negative sign distinguishes between partition coefficients and fractional transport rates.
-1.00000
bone/blood plasma partition coefficient 1 for animal 1 (chitin/hemolymph partition in insects)
-1.00000
bone /blood plasma partition coefficent 2 for animal 1
-10.0000

liver/blood plasma partition coefficient for animal 1 (malphigian tubule/hemolymph in insects)
-18.0000
kidney/blood plasma partition coefficent 1for animal 1 (malphigian tubule/ hemolymph in insects)
-18.0000
kidney/blood plasma partition coefficent 2for animal 1 (malphigian tubule/ hemolymph in insects)
-3.00000
muscle/blood plasma partition coefficient for animal 1 (muscle/hemolymph in insects)
-2.00000
residual tissue/blood plasma partition coefficient for animal 1 (residual tissue/hemolymph in insects)
****
181818.
identification number for INVERT
****
0.631000
absorption coefficient for contaminants and nutrients , day^{-1}, from malphigian tubules to gut for animal 1 (insect)
0.631000
nutrient 1
0.631000
nutrient 2
0.631000
nutrient 3
0.631000
nutrient 4
0.631000
nutrient 5
****
16.0000
minimum feeding temperature, °C, for animal 1 (insect)
8.00000
minimum developmental temperature, °C, for animal 1 (insect)
250.000
degree-day accumulation before egg hatching will occur
40.0000
minimum number of days below minimum developmental required for cold treatment of diapause eggs
240.000
Julian date at which 100% productionof diapause eggs may develop at temperatures below minimum developmental temperature
3.000000E-03
egg mortality rate, day^{-1}, for all egg types
****
****
0.000000E+00
enter number of years over which effects of a given radionuclide will be simulated for animal 2 (deer mouse)
1.00000
fraction of meat consumed from the study area . A value of 0.0 entered for herbivores for animal 2
134.0 0.500000 3.00000
total population size, fraction of population that are females, and population structure ; a value of 3.0 identifies a exponential age structure for animal 2
1.00000
fraction of area utilized by animal 2
0.000000E+00
fraction of supplementary feed derived from study area for animal 2
1.00000
number of yearly feeding intervals for animal 2....diet changes
1.00000
number of daily feeding schedules for animal 2. generally set to 1 for wildlife

2.00000 1.00000 2.00000 0.500000
maximum expected life-span, years; onset gestation period, number of gestation periods, and fraction of offspring during the first gestation period for animal 2
4.00000 20.0000
yearly feeding interval for animal 2. Starts one year 4 and continues to year 20
1.00000 365.000
daily feeding interval for animal 2 in region 1
1.00000 1.00000
fraction of region 1 utilized (in duplicate)
0.013900 0.000000E+00 0.000000E+00 0.000000E+00
fraction of diet from prey (animals 1,3-4) utilized by animal 2 in region 1
1.00000 1.00000
number of yearly intervals for changed feed schedules (in duplicate) for animal 2 in region 1
1.00000
number of changed feed schedules for animal 2 in region 1
4.00000
number of plant types used animal 2 in region 1
8.00000 18.0000 7.00000 19.0000
plant types utilized by animal 2 in region 1
1.00000 1.00000 2.00000 2.00000
plant feeding preference for 4 plants consumed by animal 2 in region 1
9.24e-03 9.24e-03 4.620000E-03 4.620000E-03
utilization fraction in the diet of animal 2 from region 1
****
repeat above input for region 2 (skip line 20,22)
1.00000 1.00000
5.210000E-03 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
3.480000E-03 3.480000E-03 1.740000E-03 1.740000E-03
****
repeat above input for region 3
1.00000 1.00000
2.10000E-02 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
1.390000E-02 1.390000E-02 6.95000E-03 6.950000E-0
****
repeat above input for region 4
1.00000 1.00000
4.670000E-02 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
3.110000E-02 3.110000E-02 1.560000E-02 1.560000E-02
****
repeat above input for region 5
1.00000 1.00000
5.590000E-02 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
3.730000E-02 3.730000E-02 1.860000E-02 1.860000E-02
****
repeat above input for region 6
1.00000 1.00000

5.710000E-03 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
3.810000E-03 3.810000E-03 1.90000E-03 1.860000E-03
****
repeat above input for region 7
1.00000 1.00000
0.1395 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
9.310000E-02 9.310000E-02 4.650000E-02 4.650000E-02
****
repeat above input for region 8
1.00000 1.00000
4.2e-02 0.000000E+00 0.000000E+00 0.000000E+00
1.00000
8.00000 18.0000 7.00000 19.0000
1.00000 1.00000 2.00000 2.00000
2.800000E-02 2.800000E-02 1.400000E-02 1.400000E-02
****
0.100000
deposition fraction for 1 um AMAD particles in N-P region of lung
0.100000
deposition fraction for 1 um AMAD particles in T-B region of lung
5.000000E-02
deposition fraction for 1 um AMAD particles in pulmonary region of lung
0.900000
gut-to-blood absorption coefficient, day^{-1}, for animal 2
0.8
blood-to-urine clearance fraction, day^{-1}, for animal 2
0.000000E+00
blood-to-milk secretion fraction, day^{-1}, for animal 2. A value of 0.0 defaults to gut-to-blood absorption coefficient
0.000000E+00
pulmonary-to-blood transport fraction, day-1, for animal 2. a value of 0.0 will default to 0.1/day
100.
alveoli-air /blood plasma partition coefficient for animal 2
0.000000E+00
transport fraction, day-1, of 1 um AMAD particles from N-P region to gut. a value of 0.0 will default to 0.693/day
0.000000E+00
transport fraction, day-1 of 1 um AMAD particles from T-B region of lung to gut. A value of 0.0 will default to 0.0693/day
-50.0000
fat/blood plasma partition coefficient for animal 2. The negative sign distinguishes between partition coefficients and fractional transport rates.
-1.00000
bone/blood plasma partition coefficient 1 for animal 2
-1.00000
bone /blood plasma partition coefficent 2 for animal 2
-10.0000
liver/blood plasma partition coefficient for animal 2
-18.0000
kidney/blood plasma partition coefficent 1for animal 2
-18.0000
kidney/blood plasma partition coefficent 2 for animal 2

-3.00000
muscle/blood plasma partition coefficient for animal 2
-2.00000
residual tissue/blood plasma partition coefficient for animal 2
1.40000
activity factor above normal metabolism for animal 2
2.000000E-02
fraction of food lost as gas during digestion for animal 2
5.000000E-02
fraction of food lost via urine
****
****
repeat above input for animal 3 (coyote)
0.000000E+00
1.00000
0.11 0.500000 2.00000
1.00000
0.000000E+00
1.00000
1.00000
5.00000 1.00000 1.00000 1.00000
4.00000 60.0000
1.00000 365.000
1.00000 1.00000
5.040000E-03 1.760000E-02 0.000000E+00 2.520000E-03
1.00000 1.00000
1.00000
1.00000
16.0000
1.00000
1.68000E-02
1.00000 1.00000
1.900000E-03 6.640000E-03 0.000000E+00 9.480000E-04
1.00000
16.0000
1.00000
6.320000E-03
1.00000 1.00000
7.580000E-03 2.650000E-02 0.000000E+00 3.790000E-03
1.00000
16.0000
1.00000
2.530000E-02
1.00000 1.00000
1.700000E-02 5.940000E-02 0.000000E+00 8.490000E-03
1.00000
16.0000
1.00000
5.660000E-02
1.00000 1.00000
2.030000E-02 7.110000E-02 0.000000E+00 1.020000E-02
1.00000
16.0000
1.00000
6.780000E-02
1.00000 1.00000
2.080000E-03 7.270000E-03 0.000000E+00 1.040000E-03
1.00000

```
 16.0000
 1.00000
6.920000E-03
 1.00000        1.00000
5.080000E-02   1.780000E-01   0.000000E+00   2.540000E-02
 1.00000
 16.0000
 1.00000
1.690000E-01
 1.00000        1.00000
5.040000E-03   5.340000E-02   0.000000E+00   7.630000E-03
 1.00000
 16.0000
 1.00000
5.090000E-02
0.100000
0.100000
5.000000E-02
0.900000
0.8
0.000000E+00
0.000000E+00
100.
0.000000E+00
0.000000E+00
-50.0000
-1.00000
-1.00000
-10.0000
-18.0000
-18.0000
-3.00000
-2.00000
 1.40000
1.000000E-02
3.000000E-02
*****************************************************************************
*****************************************************************************
repeat above input for animal 4 (mule deer)
 0.000000E+00
 0.000000E+00
  0.70        0.500000        2.00000
  1.00000
 0.000000E+00
  1.00000
  1.00000
  12.0000       1.00000       1.00000       1.00000
  4.00000       20.0000
  1.00000       365.000
  1.00000       1.00000
 0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
  1.00000       1.00000
  1.00000
  5.00000
  8.00000       18.0000       7.00000       19.0000       16.0000
  1.00000       1.00000       2.00000       2.00000       3.00000
 0.010500       0.010500      6.300000E-03  6.300000E-03  8.4000E-03
  1.00000       1.00000
```

```
0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
 1.00000
 8.00000       18.0000       7.00000       19.0000       16.0000
 1.00000       1.00000       2.00000       2.00000       3.00000
3.950000E-03   3.950000E-03   2.370000E-03   2.370000E-03   3.160000E-03
 1.00000       1.00000
0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
 1.00000
 8.00000       18.0000       7.00000       19.0000       16.0000
 1.00000       1.00000       2.00000       2.00000       3.00000
1.580000E-02   1.580000E-02   9.480000E-03   9.480000E-03   1.260000E-02
 1.00000       1.00000
0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
 1.00000
 8.00000       18.0000       7.00000       19.0000       16.0000
 1.00000       1.00000       2.00000       2.00000       3.00000
3.540000E-02   3.540000E-02   2.120000E-02   2.120000E-02   2.830000E-02
 1.00000       1.00000
0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
 1.00000
 8.00000       18.0000       7.00000       19.0000       16.0000
 1.00000       1.00000       2.00000       2.00000       3.00000
4.240000E-02   4.240000E-02   2.540000E-02   2.540000E-02   3.390000E-02
 1.00000       1.00000
0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
 1.00000
 8.00000       18.0000       7.00000       19.0000       16.0000
 1.00000       1.00000       2.00000       2.00000       3.00000
4.330000E-03   4.330000E-03   2.60000E-03   2.60000E-03   3.460000E-03
 1.00000       1.00000
0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
 1.00000
 8.00000       18.0000       7.00000       19.0000       16.0000
 1.00000       1.00000       2.00000       2.00000       3.00000
1.060000E-01   1.060000E-01   6.350000E-02   6.350000E-02   8.460000E-02
 1.00000       1.00000
0.000000E+00   0.000000E+00   0.000000E+00   0.000000E+00
 1.00000
 8.00000       18.0000       7.00000       19.0000       16.0000
 1.00000       1.00000       2.00000       2.00000       3.00000
3.180000E-02   3.180000E-02   1.910000E-02   1.910000E-02   2.54000E-02
0.100000
0.100000
5.000000E-02
0.900000
0.8
0.000000E+00
0.000000E+00
100.
0.000000E+00
0.000000E+00
-50.0000
-1.00000
-1.00000
-10.0000
-18.0000
-18.0000
-3.00000
```

```
   -2.00000
    2.00000
   6.000000E-02
   6.000000E-02
*****************************************************************************************
*****************************************************************************************
    444444.
Identification number for BIOPLT
    2.00000
   0.000000E+00    0.00000        0.00000
   0.0             0.0            0.0
   1.00000         1.00000
SDMNCT
    1.00000        19.00000
30
   -2.00000
SDMNCT
    1.00000        19.00000
30
   -10.00000
SDMNCT
    1.00000        19.00000
30
   -11.00000
SDMNCT
    1.00000        19.00000
30
   -12.00000
W
    3.00000        23.00000
30      ko      m
   -4.00000       -2.00000        -1.0
W
    3.00000        23.00000
30      ko      m
   -4.00000       -3.00000        -1.0
W
    3.00000        23.00000
30      ko      m
   -4.00000       -4.00000        -1.0
W
    3.00000        23.00000
30      ko      m
   -8.00000       -2.00000        -1.0
W
    3.00000        23.00000
30      ko      m
   -8.00000       -3.00000        -1.0
W
    3.00000        23.00000
30      ko      m
   -8.00000       -4.00000        -1.0
    2.00000        1.00000
W
    3.00000        23.00000
30      ko      m
   -9.00000       -2.00000        -1.0
W
```

```
     3.00000        23.00000
30      ko       m
    -9.00000       -3.00000        -1.0
W
     3.00000        23.00000
30      ko       m
    -9.00000       -4.00000        -1.0
W
     3.00000        23.00000
30      ko       m
    -14.00000      -2.00000        -1.0
W
     3.00000        23.00000
30      ko       m
    -14.00000      -3.00000        -1.0
W
     3.00000        23.00000
30      ko       m
    -14.00000      -4.00000        -1.0
W
     3.00000        23.00000
30      ko       m
    -17.00000      -2.00000        -1.0
W
     3.00000        23.00000
30      ko       m
    -17.00000      -3.00000        -1.0
W
     3.00000        23.00000
30      ko       m
    -17.00000      -4.00000        -1.0
W
     3.00000        23.00000
30      ko       m
    -17.00000      -4.00000        -1.0
     4.00000
     3.00000
     171717.
     4.00000
     1.0 1.0 1.0 1.0
     13.0000
     1.0 2.0 3.0 4.0
    0.000000E+00 0.000000E+00 0.0 0.0
    0.000000E+00 0.000000E+00 0.0 0.0
    0.000000E+00 0.000000E+00 0.0 0.0
     191919.
        4        7        20
        1        1        1        1
y
y
y
n
days
ug/gdwt
Alluvium Contaminant
Source
Channel 2
Channel 3
```

```
Channel 4
   -111.000      -111.000
   -111.000      -111.000
    171717.
    6.00000
    1.00000       1.00000       1.0       1.0    1.0    1.0
    13.0000
    5.00000       6.00000       7.0       8.0    9.0    10.0
   0.000000E+00   0.000000E+00   0.0    0.0    0.0    0.0
   0.000000E+00   0.000000E+00   0.0    0.0    0.0    0.0
   0.000000E+00   0.000000E+00   0.0    0.0    0.0    0.0
    191919.
        4       7       19
        1       1       1       1       1       1
y
y
y
n
days
ug/gfwt
Soil & Total Intake
soil:mice
soil:coyote
soil:deer
total:mice
total:coyote
total:deer
   -111.000      -111.000
   -111.000      -111.000
    171717.
    8.0
    2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
    13.0
    1.0 2.0 4.0 5.0 6.0 7.0 8.0 9.0
   0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
    191919.
        4  7 20
        1 1 1  1  1       1       1       1
y
y
y
n
days
ug/gfwt
Organ Concentrations
kid:mice
kid:coyote
liver:mice
liver:coyote
liver:deer
fat:mice
fat:coyote
fat:deer
   -111.000      -111.000
   -111.000      -111.000
```