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October 12, 2000

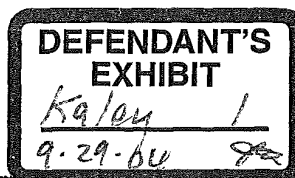
Mr. Stephen Cobb
Hazardous Waste Branch
Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, AL 36130

Re: Request for Information on Lead Use at Solutia's Anniston Facility

Dear Mr. Cobb:

Solutia is able to provide the following information with regard to the former use of lead at the Anniston facility. The production of biphenyl began at the facility in approximately 1928. Biphenyl is produced by the pyrolysis of benzene, also known as benzol. The Anniston plant used what was called the "Lead Pot Process", in which the temperature required to pyrolyze the benzene was attained by bubbling the vaporized benzene through molten lead. A synopsis of the process and a flow sheet are provided in Attachment I, the Standard Manufacturing Process (SMP) for Biphenyl, dated September 17, 1957. The left-hand column of the flow sheet shows boxes labeled "No. 1 Preheater", "No. 2 Preheater", and "Converter". These three stages were separate compartments of molten lead through which the benzene was bubbled. The final, converter, stage was operated at 750° to 810° Celsius. Immediately downstream of the converter was a "Lead Trap" to remove entrained lead. All subsequent steps in the process occurred at temperatures well below the melting point of lead (327.5° C.), so no lead would be carried through the rest of the process. For example, the fractionating column immediately downstream of the lead trap was operated at a maximum temperature of 100° C.

In 1957, at the time the SMP was written, there were 12 biphenyl units in operation at the Anniston facility, although there had been a thirteenth unit at one time. Except for two of the units in which one of the lead-containing preheaters was replaced by a tubular heat exchanger, each unit had three stainless steel pots partially filled (37 to 47 inches) with the molten lead. The pots were 24" outside diameter and 72" long. Temperature was maintained by suspending the pots in a firebrick apparatus which burned natural gas.



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In 1961 a tubular reactor replaced some of the lead pot units, and in 1964 the rest of the lead pot units were replaced by a second tubular reactor. In the years between 1961 and 1964, the lead pot units were used only intermittently. These changes are documented in Appendix J of Attachment II, a 1984 Amendment to the 1979 SMP for Polyphenyls. We have been told by former employees that the lead in the pots was recovered and sold after the units were shut down. There is no information suggesting that lead has been used at the Anniston facility after 1964.

Based upon review of the SMPs discussed above, it is highly unlikely that lead escaped from the process. The process was a tightly closed system, which was required to contain the vaporized benzene and products. The system also had to be tightly closed for safety reasons to prevent release of highly flammable benzene vapors. Any lead entrained during the conversion of benzene to biphenyl or other polyphenyls was trapped immediately subsequent to the reaction step, after which temperatures in the process were well below the melting point of lead.

In January of 1999, Solutia submitted to ADEM a draft "On-site RFI Report". Sampling and analysis results for lead in groundwater (Table 9), outfalls (Table 10), and soils (Table 11) were reported. (These draft tables are included as Attachment III.) Soil concentrations of lead rarely exceeded 100 mg/kg (ppm), and the single highest value was 250 mg/kg. This level is below both the risk-based screening level noted in Table 16 of the draft report and below the 400 mg/kg residential action level currently being utilized by the U. S. EPA for residential soils in Anniston. That level is also within the observed range for background levels of surficial lead in the eastern United States, as reported by the U. S. Geological Survey. (Schacklette, H. T., and J. G. Boerngen, *Element Concentration in Soils and Other Surficial Materials of the Conterminous United States*, U. S. Geological Survey Professional Paper 1270, 1984, Washington, U. S. Government Printing Office, p. 6.) Lead was not detected in any outfall samples. In groundwater samples lead was not detected in most samples and only rarely exceeded the 15 µg/L (ppb) risk-based screening level noted in Table 15 of the draft report. (The highest level detected was 36 ppb, according to Table 15.) These on-site analytical results provide confirmation that the former use of lead in the polyphenyl process over 30 years ago has not contributed to environmental lead levels at the Anniston facility.

Finally, in June of 2000, Solutia submitted to ADEM the "Off-Site RCRA Facility Investigation (RFI) Report". The results of sampling and analysis for metals in the study of Snow Creek did not indicate that lead levels in those sediments were increased in the reaches of Snow Creek downstream of the 11th Street Ditch, which carries storm water from the Anniston facility. This report thus provides confirmatory information that the Anniston facility is not a source of environmental lead in Anniston.

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Mr. Stephen Cobb
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I hope this information meets your current needs. Solutia will provide additional information, if it becomes available. Please contact me if you have further questions.

Yours truly,



Robert G. Kaley, II
Director, Environmental Affairs

cc: Gerald Hardy - ADEM
James Grassiano - ADEM
Russ McLean - EPA
Steve Spurlin - EPA
Wesley Hardegree - EPA
Don Rigger - EPA
Clement Welsh - ATSDR
Cheryl Browder - ADPH

ADA 000137

ATTACHMENT I

ADA 000138

ATTACHMENT III

ADA 000139

WATER_PCB-SD0000044974

TABLE 9
Groundwater Sampling Results

Parameter	Units	CB-85	CB-85-F	MW-01B	MW-01B-F	OW-06A	OW-09	OW-09-F	OW-10	OW-10-F	OWR-01D	OWR-01D-F	OWR-01S	OWR-01S-F
Inorganic Indicators														
Alkalinity (to pH 4.5) as CaCO ₃	mg/L	U	N/A	4.2	N/A	14	N/A	N/A	20	N/A	210	N/A	9.8	N/A
Iron, Ferrous (2+)	mg/L	U	N/A	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A
Nitrate-N	mg/L	1.2 J	N/A	0.15 J	N/A	0.40	N/A	N/A	1.4 J	N/A	U	N/A	1.6 J	N/A
Phenolics, Total Recoverables	mg/L	U	N/A	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A
Phosphorus, Total	mg/L	U	N/A	U	N/A	6.8	N/A	N/A	U	N/A	U	N/A	U	N/A
Standard Plate Count	CFU/mL	33 J	N/A	U	N/A	10,000	N/A	N/A	730 J	N/A	5,000 J	N/A	1,000 J	N/A
Sulfate as SO ₄	mg/L	U	N/A	U	N/A	U	N/A	N/A	U	N/A	U	N/A	35	N/A
Sulfide	mg/L	U	N/A	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A
Total Dissolved Solids	mg/L	33 J	N/A	16 J	N/A	15	N/A	N/A	1,300 J	N/A	300 J	N/A	100 J	N/A
Total Kjeldahl Nitrogen-N	mg/L	0.36	N/A	0.66	N/A	U	N/A	N/A	3,100	N/A	UJ	N/A	U	N/A
Total Organic Carbon	mg/L	U	N/A	U	N/A	12	N/A	N/A	U	N/A	8.2	N/A	U	N/A
Total Organic Halogen	mg/L	U	N/A	U	N/A	U	N/A	N/A	0.13 J	N/A	110	N/A	U	N/A
Total Suspended Solids	mg/L	UJ	N/A	20 J	N/A	140	N/A	N/A	10 J	N/A	7.0 J	N/A	4J	N/A
Metals														
Arsenic	mg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
Barium	mg/L	U	U	U	U	N/A	0.19	0.19	1.0	1.0	0.21	0.13	0.040	0.041
Beryllium	mg/L	U	U	U	U	N/A	U	U	0.0068	0.0043	U	U	U	U
Cadmium	mg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
Chromium	mg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
Cobalt	mg/L	U	U	U	U	N/A	U	0.010	0.052	0.049	U	U	U	U
Lead	mg/L	U	0.011 J	U	UJ	N/A	U	0.018	U	0.014 J	U	0.0068	U	UJ
Manganese	mg/L	0.025	0.017 J	U	0.025 J	N/A	0.31	0.33 J	1.5	1.4 J	2.3	0.83	0.25	0.25 J
Mercury	mg/L	U	U	U	U	N/A	0.00068	0.00093	0.050	U	U	U	U	U
Nickel	mg/L	U	U	U	U	N/A	0.0087	0.0092	0.063	0.061	U	U	U	U
Vanadium	mg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
Organophosphorus Pesticides														
Methyl parathion	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Parathion	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Tetraethylthiopyrophosphate (Sulfotepp)	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A

ADA 000140

U = Below Detection Limit

F = Filtered

N/A = Not Analyzed

J = Estimated Value above the method detection limit

Q = Duplicate

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15-Jan-99

RFI.mdb // rptRFIWater_a

Sample Results for July/August 1998.

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January 1999

TABLE 9
Groundwater Sampling Results

Solutia: RFI/CS Draft Report
Revision 0

Parameter	Units	CB-35	CB-85-F	MW-01B	MW-01B-F	OW-06A	OW-09	OW-09-F	OW-10	OW-10-F	OWR-01D	OWR-01D-F	OWR-01S	OWR-01S-F
PCBs														
Aroclor 1016	µg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
Aroclor 1221	µg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
Aroclor 1232	µg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
Aroclor 1242	µg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
Aroclor 1248	µg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
Aroclor 1254	µg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
Aroclor 1260	µg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
Total PCBs	µg/L	U	U	U	U	N/A	U	U	U	U	U	U	U	U
SVOCs														
1,2-Dichlorobenzene	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
1,4-Dichlorobenzene	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
2,4,5-Trichlorophenol	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
2,4,6-Trichlorophenol	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
2,4-Dichlorophenol	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
4-Nitrophenol (Paranitrophenol)	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
o,o,o-Triethylphosphorothioate	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Pentachlorophenol	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Phenol	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
VOCs														
1,1,2,2-Tetrachloroethane	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Chlorobenzene	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Isopropylbenzene	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Methylene chloride (dichloromethane)	µg/L	U	N/A	U	N/A	N/A	U	N/A	U	N/A	U	N/A	U	N/A

U = Below Detection Limit

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ADA 000141

Sample Results for July/August 1998.

15-Jan-99

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January 1999

TABLE 9
Groundwater Sampling Results

Solatia: RFI/CS Draft Report
Revision 0

Parameter	Units	OWR-02D	OWR-02D -F	OWR-02S	OWR-02S -F	OWR-03S	OWR-03S -F	OWR-04D	OWR-04D -F	OWR-05D	OWR-05D -F	OWR-06D	OWR-06D -F
Inorganic Indicators													
Alkalinity (to pH 4.5) as CaCO ₃	mg/L	120	N/A	23	N/A	N/A	N/A	N/A	N/A	11	N/A	N/A	N/A
Iron, Ferrous (2+)	mg/L	U	N/A	U	N/A	N/A	N/A	N/A	N/A	0.14	N/A	N/A	N/A
Nitrate-N	mg/L	1.7 J	N/A	2.2 J	N/A	N/A	N/A	N/A	N/A	U	N/A	N/A	N/A
Phenolics, Total Recoverables	mg/L	U	N/A	U	N/A	N/A	N/A	N/A	N/A	U	N/A	N/A	N/A
Phosphorus, Total	mg/L	U	N/A	U	N/A	N/A	N/A	N/A	N/A	0.039	N/A	N/A	N/A
Standard Plate Count	CFU/mL	720 J	N/A	740	N/A	N/A	N/A	N/A	N/A	960	N/A	N/A	N/A
Sulfate as SO ₄	mg/L	U	N/A	U	N/A	N/A	N/A	N/A	N/A	5.0	N/A	N/A	N/A
Sulfide	mg/L	U	N/A	U	N/A	N/A	N/A	N/A	N/A	U	N/A	N/A	N/A
Total Dissolved Solids	mg/L	180 J	N/A	240 J	N/A	N/A	N/A	N/A	N/A	970	N/A	N/A	N/A
Total Kjeldahl Nitrogen-N	mg/L	0.71 J	N/A	U	N/A	N/A	N/A	N/A	N/A	2.3	N/A	N/A	N/A
Total Organic Carbon	mg/L	U	N/A	3.0	N/A	N/A	N/A	N/A	N/A	23	N/A	N/A	N/A
Total Organic Halogen	mg/L	0.032	N/A	0.040	N/A	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A
Total Suspended Solids	mg/L	6.0 J	N/A	UJ	N/A	N/A	N/A	N/A	N/A	5,400	N/A	N/A	N/A
Metals													
Arsenic	mg/L	U	U	U	U	U	U	U	U	U	U	U	U
Barium	mg/L	0.029	0.017	0.093	0.092	0.038	0.043	0.022	0.025	1.2	1.3	0.15	0.18
Beryllium	mg/L	U	U	U	U	U	U	U	U	U	U	U	U
Cadmium	mg/L	U	U	U	U	U	U	U	U	U	U	U	U
Chromium	mg/L	U	U	U	U	U	U	U	U	U	U	U	U
Cobalt	mg/L	U	U	0.029	0.033	U	U	U	U	0.079	0.081	U	U
Lead	mg/L	U	U	U	UJ	U	0.015 J	U	UJ	U	0.021	U	U
Manganese	mg/L	0.13	0.013	4.5	4.5 J	0.27	0.27 J	U	UJ	1.3	1.3	0.47	0.66
Mercury	mg/L	UJ	U	U	U	0.00025	0.00023	U	U	0.00057	U	0.0013	0.00027
Nickel	mg/L	U	U	U	U	U	0.0046	U	U	0.055	0.058	0.0095	0.011
Vanadium	mg/L	U	U	U	U	U	U	U	U	U	U	U	U
Organophosphorus Pesticides													
Methyl parathion	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	5.5	N/A	U	N/A
Parathion	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	28	N/A	U	N/A
Tetraethylthiopyrophosphate (Sulfotepp)	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A

U = Below Detection Limit

F = Filtered

N/A = Not Analyzed

J = Estimated Value above the method detection limit

Q = Duplicate

UJ = Estimated Value below the method detection limit

15-Jan-99

RFI.mdb // rpiRFIWater_a

Sample Results for July/August 1998.

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WATER_PCB-SD0000044977

TABLE 9
Groundwater Sampling Results

Parameter	Units	OWR-02D	OWR-02D -F	OWR-02S	OWR-02S -F	OWR-03S	OWR-03S -F	OWR-04D	OWR-04D -F	OWR-05D	OWR-05D -F	OWR-06D	OWR-06D -F
PCBs													
Aroclor 1016	µg/L	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221	µg/L	U	U	U	U	U	U	U	U	210	U	U	U
Aroclor 1232	µg/L	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242	µg/L	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1248	µg/L	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254	µg/L	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1260	µg/L	U	U	U	U	U	U	U	U	U	U	U	U
Total PCBs	µg/L	U	U	U	U	U	U	U	U	210	U	U	U
SVOCs													
1,2-Dichlorobenzene	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
1,4-Dichlorobenzene	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
2,4,5-Trichlorophenol	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
2,4,6-Trichlorophenol	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
2,4-Dichlorophenol	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
4-Nitrophenol (Paranitrophenol)	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	2,300	N/A	U	N/A
o,o,o-Triethylphosphorothioate	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Pentachlorophenol	µg/L	U	N/A	1.2	N/A	U	N/A	U	N/A	1.2	N/A	U	N/A
Phenol	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
VOCs													
1,1,2,2-Tetrachloroethane	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Chlorobenzene	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	46	N/A	U	N/A
Isopropylbenzene	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Methylene chloride (dichloromethane)	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A

ADA 000143

U = Below Detection Limit

F = Filtered

N/A = Not Analyzed

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Q = Duplicate

UJ = Estimated Value below the method detection limit

Sample Results for July/August 1998.

15-Jan-99

RFI.mdb // rptRFIWater_a

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WATER_PCB-SD0000044978

TABLE 9
Groundwater Sampling Results

Parameter	Units	OWR-07D	OWR-07D -F	OWR-08S	OWR-08S -F	OWR-09S	OWR-09S -F	WEL-01	WEL-01 -F	WEL-02	WEL-02 -F
Inorganic Indicators											
Alkalinity (to pH 4.5) as CaCO ₃	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Iron, Ferrous (2+)	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate-N	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phenolics, Total Recoverables	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phosphorus, Total	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Standard Plate Count	CFU/mL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfate as SO ₄	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfide	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl Nitrogen-N	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Halogen	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals											
Arsenic	mg/L	U	U	U	U	U	U	U	U	U	U
Barium	mg/L	U	0.017	0.24	0.19	0.044	0.015	U	0.029	0.15 J	0.068
Beryllium	mg/L	U	U	U	U	U	U	U	U	U	U
Cadmium	mg/L	U	U	U	U	U	U	U	U	U	U
Chromium	mg/L	0.031	0.039	U	U	U	U	0.057	U	0.014	U
Cobalt	mg/L	U	U	0.029	0.024	U	U	0.036	U	0.019	U
Lead	mg/L	U	0.013	U	0.027 J	0.0091	UJ	0.033	U	0.018	U
Manganese	mg/L	U	U	1.4	1.1 J	0.51	0.082 J	2.0	0.13	1.7	0.19
Mercury	mg/L	U	UJ	U	U	U	U	U	U	U	U
Nickel	mg/L	U	U	0.010	0.0091	0.016	U	0.063	U	0.035	0.0057
Vanadium	mg/L	0.010	U	U	U	0.018	U	0.081	U	0.033	U
Organophosphorus Pesticides											
Methyl parathion	µg/L	U	N/A	9.6	N/A	U	N/A	U	N/A	U	N/A
Parathion	µg/L	U	N/A	560	N/A	U	N/A	U	N/A	U	N/A
Tetraethyldithiopyrophosphate (Sulfotepp)	µg/L	U	N/A	1.8	N/A	U	N/A	U	N/A	U	N/A

U = Below Detection Limit

F = Filtered

N/A = Not Analyzed

J = Estimated Value above the method detection limit

Q = Duplicate

UJ = Estimated Value below the method detection limit

ADA 000144

TABLE 9
Groundwater Sampling Results

Parameter	Units	OWR-07D	OWR-07D -F	OWR-08S	OWR-08S -F	OWR-09S	OWR-09S -F	WEL-01	WEL-01 -F	WEL-02	WEL-02 -F
PCBs											
Aroclor 1016	µg/L	U	U	U	U	U	U	U	U	U	U
Aroclor 1221	µg/L	U	U	U	U	U	U	U	U	U	U
Aroclor 1232	µg/L	U	U	U	U	U	U	U	U	U	U
Aroclor 1242	µg/L	U	U	U	U	U	U	U	U	U	U
Aroclor 1248	µg/L	2.2	U	U	U	U	U	U	U	U	U
Aroclor 1254	µg/L	U	U	U	U	U	U	U	U	U	U
Aroclor 1260	µg/L	U	U	U	U	U	U	U	U	U	U
Total PCBs	µg/L	2.2	U	U	U	U	U	U	U	U	U
SVOCs											
1,2-Dichlorobenzene	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
1,4-Dichlorobenzene	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
2,4,5-Trichlorophenol	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
2,4,6-Trichlorophenol	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
2,4-Dichlorophenol	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
4-Nitrophenol (Paranitrophenol)	µg/L	U	N/A	390	N/A	U	N/A	U	N/A	U	N/A
o,o,o-Triethylphosphorothioate	µg/L	U	N/A	330	N/A	U	N/A	U	N/A	U	N/A
Pentachlorophenol	µg/L	U	N/A	1.2	N/A	U	N/A	U	N/A	U	N/A
Phenol	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
VOCs											
1,1,2,2-Tetrachloroethane	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Chlorobenzene	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Isopropylbenzene	µg/L	U	N/A	U	N/A	U	N/A	U	N/A	U	N/A
Methylene chloride (dichloromethane)	µg/L	U	N/A	36	N/A	U	N/A	U	N/A	U	N/A

U = Below Detection Limit

F = Filtered

N/A = Not Analyzed

J = Estimated Value above the method detection limit

Q = Duplicate

UJ = Estimated Value below the method detection limit

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RFI.mdb // rptRFIWater_b

Sample Results for July/August 1998.

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ADA 000145

WATER_PCB-SD0000044980

TABLE 9
Groundwater Sampling Results

Parameter	Units	WEL-03	WEL-03 -F	WEL-04	WEL-04 -F
Inorganic Indicators					
Alkalinity (to pH 4.5) as CaCO ₃	mg/L	N/A	N/A	N/A	N/A
Iron, Ferrous (2+)	mg/L	N/A	N/A	N/A	N/A
Nitrate-N	mg/L	N/A	N/A	N/A	N/A
Phenolics, Total Recoverables	mg/L	N/A	N/A	N/A	N/A
Phosphorus, Total	mg/L	N/A	N/A	N/A	N/A
Standard Plate Count	CFU/mL	N/A	N/A	N/A	N/A
Sulfate as SO ₄	mg/L	N/A	N/A	N/A	N/A
Sulfide	mg/L	N/A	N/A	N/A	N/A
Total Dissolved Solids	mg/L	N/A	N/A	N/A	N/A
Total Kjeldahl Nitrogen-N	mg/L	N/A	N/A	N/A	N/A
Total Organic Carbon	mg/L	N/A	N/A	N/A	N/A
Total Organic Halogen	mg/L	N/A	N/A	N/A	N/A
Total Suspended Solids	mg/L	N/A	N/A	N/A	N/A
Metals					
Arsenic	mg/L	U	U	U	U
Barium	mg/L	0.048 J	0.047	0.074 J	0.012
Beryllium	mg/L	U	U	U	U
Cadmium	mg/L	U	U	U	U
Chromium	mg/L	U	U	0.012	U
Cobalt	mg/L	U	U	0.012	U
Lead	mg/L	U	U	0.016	U
Manganese	mg/L	0.25	0.25	1.1	0.058
Mercury	mg/L	U	U	U	U
Nickel	mg/L	U	U	0.025	U
Vanadium	mg/L	U	U	0.027	U
Organophosphorus Pesticides					
Methyl parathion	µg/L	U	N/A	U	N/A
Parathion	µg/L	U	N/A	U	N/A
Tetraethylthiopyrophosphate (Sulfotepp)	µg/L	U	N/A	U	N/A

U = Below Detection Limit F = Filtered
N/A = Not Analyzed J = Estimated Value above the method detection limit
Q = Duplicate UJ = Estimated Value below the method detection limit

ADA 000146

Sample Results for July/August 1998.

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RFI.mdb // rptRFIWater_b

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WATER_PCB-SD0000044981

TABLE 9
Groundwater Sampling Results

Parameter	Units	WEL-03	WEL-03 -F	WEL-04	WEL-04 -F
PCBs					
Aroclor 1016	µg/L	U	U	U	U
Aroclor 1221	µg/L	U	U	U	U
Aroclor 1232	µg/L	U	U	U	U
Aroclor 1242	µg/L	U	U	U	U
Aroclor 1248	µg/L	U	U	U	U
Aroclor 1254	µg/L	U	U	U	U
Aroclor 1260	µg/L	U	U	U	U
Total PCBs	µg/L	U	U	U	U
SVOCs					
1,2-Dichlorobenzene	µg/L	U	N/A	U	N/A
1,4-Dichlorobenzene	µg/L	U	N/A	U	N/A
2,4,5-Trichlorophenol	µg/L	U	N/A	U	N/A
2,4,6-Trichlorophenol	µg/L	U	N/A	U	N/A
2,4-Dichlorophenol	µg/L	U	N/A	U	N/A
4-Nitrophenol (Paranitrophenol)	µg/L	U	N/A	U	N/A
o,o,o-Triethylphosphorothioate	µg/L	U	N/A	U	N/A
Pentachlorophenol	µg/L	U	N/A	U	N/A
Phenol	µg/L	U	N/A	U	N/A
VOCs					
1,1,2,2-Tetrachloroethane	µg/L	U	N/A	U	N/A
Chlorobenzene	µg/L	U	N/A	U	N/A
Isopropylbenzene	µg/L	U	N/A	U	N/A
Methylene chloride (dichloromethane)	µg/L	U	N/A	U	N/A

U = Below Detection Limit F = Filtered
 N/A = Not Analyzed J = Estimated Value above the method detection limit
 Q = Duplicate UJ = Estimated Value below the method detection limit

ADA 000147

Sample Results for July/August 1998.

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RFI.mdb // rptRFIWater_b

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WATER_PCB-SD0000044982

TABLE 10
Outfall Sampling Results

Parameter	Units	DSN-004	DSN-005	DSN-006	DSN-012
Inorganic Indicators					
Oil & Grease	mg/L	U	N/A	U	N/A
Metals					
Arsenic	mg/L	0.011	U	N/A	N/A
Barium	mg/L	0.036	0.013	N/A	N/A
Beryllium	mg/L	U	U	N/A	N/A
Cadmium	mg/L	U	U	N/A	N/A
Chromium	mg/L	U	U	N/A	N/A
Cobalt	mg/L	U	U	N/A	N/A
Lead	mg/L	U	U	N/A	N/A
Manganese	mg/L	U	U	N/A	N/A
Mercury	mg/L	U	U	N/A	N/A
Nickel	mg/L	U	U	N/A	N/A
Vanadium	mg/L	U	U	N/A	N/A
Organophosphorus Pesticides					
Methyl parathion	µg/L	U	U	N/A	N/A
Parathion	µg/L	U	U	N/A	N/A
Tetraethyldithiopyrophosphate (Sulfotepp)	µg/L	U	U	N/A	N/A
PCBs					
Aroclor 1016	µg/L	U	U	U	U
Aroclor 1221	µg/L	U	U	U	U
Aroclor 1232	µg/L	U	U	U	U
Aroclor 1242	µg/L	U	U	U	U
Aroclor 1248	µg/L	U	U	U	U
Aroclor 1254	µg/L	U	U	U	U
Aroclor 1260	µg/L	U	U	U	U
Total PCBs	µg/L	U	U	U	U

ADA 000148

U = Below Detection Limit

N/A = Not Analyzed

UU = Estimated Value below the method detection limit.

Sample Results for June/July 1998.

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RFI.mdb // rptRFIOutfalls

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TABLE 10
Outfall Sampling Results

Parameter	Units	DSN-004	DSN-005	DSN-006	DSN-012
SVOCs					
1,2-Dichlorobenzene	µg/L	U	U	N/A	N/A
1,4-Dichlorobenzene	µg/L	U	U	N/A	N/A
2,4,5-Trichlorophenol	µg/L	U	U	N/A	N/A
2,4,6-Trichlorophenol	µg/L	U	U	N/A	N/A
2,4-Dichlorophenol	µg/L	U	U	N/A	N/A
4-Nitrophenol (Paranitrophenol)	µg/L	U	U	N/A	N/A
o,o,o-Triethylphosphorothioate	µg/L	UJ	UJ	N/A	N/A
Pentachlorophenol	µg/L	U	U	N/A	N/A
Phenol	µg/L	U	U	N/A	N/A
VOCs					
1,1,2,2-Tetrachloroethane	µg/L	U	U	N/A	N/A
Benzene	µg/L	U	U	N/A	N/A
Chlorobenzene	µg/L	U	U	N/A	N/A
Ethylbenzene	µg/L	U	U	N/A	N/A
Isopropylbenzene	µg/L	U	U	N/A	N/A
Methylene chloride (dichloromethane)	µg/L	U	U	N/A	N/A
Toluene	µg/L	U	U	N/A	N/A
Xylenes	µg/L	U	U	N/A	N/A

ADA 000149

U = Below Detection Limit
N/A = Not Analyzed

UJ = Estimated Value below the method detection limit.

Sample Results for June/July 1998.

TABLE 11
Soil Sampling Results

Parameter	Units	SSR-01	SSR-02	SSR-03	SSR-04	SSR-05	SSR-06	SSR-07	SSR-08	SSR-09	SSR-10	SSR-11	SSR-12	SSR-13
Inorganic Indicators														
Cation Exchange Capacity	meq/100g	N/A	N/A	N/A	9.4	N/A	N/A	N/A	N/A	N/A	15	N/A	N/A	N/A
Organic Carbon (Walkley-Black)	mg/kg	N/A	N/A	N/A	1,600	N/A	N/A	N/A	N/A	N/A	130	N/A	N/A	N/A
Petroleum Hydrocarbons	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfide, Acid Volatile	mg/kg	N/A	N/A	N/A	U	N/A	N/A	N/A	N/A	N/A	U	N/A	N/A	N/A
Total Organic Carbon	mg/kg	N/A	N/A	N/A	500	N/A	N/A	N/A	N/A	N/A	U	N/A	N/A	N/A
Metals														
Arsenic	mg/kg	3.9	7.6	3.1	2.2	7.9	12	10	14	6.8 J	13	6.9	5.2	
Barium	mg/kg	18	150	22	43	51	38	62	52	780	25	23	85	110
Beryllium	mg/kg	U	1.0	U	U	U	U	U	0.78	1.5 J	0.69	0.75	1.0	
Cadmium	mg/kg	U	U	U	U	U	U	U	0.92	U	U	U	0.73	
Chromium	mg/kg	18	20	7.4	19	38	48	18	14	17 J	16	23	110	
Cobalt	mg/kg	2.0	9.1	2.2	5.0	6.1	6.9	9.8	12	22 J	6.9	3.2	7.5	
Lead	mg/kg	8.7	88	25	41	52	48	225	41	150	39 J	18	23	38
Manganese	mg/kg	70	590	220	120	610	690	820	520	12,000	680 J	250	100	360
Mercury	mg/kg	U	0.21	0.052	1.1	1.8	0.33	1.4	0.093	0.46	0.076 J	0.032	0.050	0.048
Nickel	mg/kg	U	18	5.7	7.5	15	39	2,400	12	120	17 J	11	9.0	33
Vanadium	mg/kg	31	39	10	33	42	50	51	45	28	55	25	41	36
Organophosphorus Pesticides														
Methyl parathion	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
Parathion	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetraethylthiopyrophosphate (Sulfotep)	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U

U = Below Detection Limit

N/A = Not Analyzed

Q = Duplicate

J = Estimated Value above the method detection limit

UJ = Estimated Value below the method detection limit

Sample Results for July/August 1998.

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RFI.mdb // rptRFISoil

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ADA 000150

TABLE 11
Soil Sampling Results

Parameter	Units	SSR-01	SSR-02	SSR-03	SSR-04	SSR-05	SSR-06	SSR-07	SSR-08	SSR-09	SSR-10	SSR-11	SSR-12	SSR-13
PCBs														
Aroclor 1016	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232	mg/kg	U	U	U	70	U	U	U	U	67	U	U	U	U
Aroclor 1242	mg/kg	U	U	U	U	U	U	U	U	U	0.059 J	U	U	U
Aroclor 1248	mg/kg	U	U	U	U	35	U	U	U	U	U	0.15	0.20	6.0
Aroclor 1254	mg/kg	0.023	4.0	0.7	24	44	5.2	170	U	120	0.028 J	0.054	0.32	10
Aroclor 1260	mg/kg	U	7.2	1.4	10	27	4.1	59	0.034	95	U	U	0.15	U
Total PCBs	mg/kg	0.023	11	2.2	100	110	9.3	230	0.034	280	0.087 J	0.20	0.67	16
SVOCs														
1,2-Dichlorobenzene	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol (Paranitrophenol)	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
o,o,o-Triethylphosphorothioate	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
Phenol	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
VOCs														
1,1,2,2-Tetrachloroethane	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	mg/kg	U	U	U	U	U	U	U	U	U	U	U	0.017	U
Isopropylbenzene	mg/kg	U	U	U	U	U	U	U	U	U	U	U	U	U
Methylene chloride (dichloromethane)	mg/kg	U	U	U	U	U	U	U	U	U	U	0.033	U	U

U = Below Detection Limit

N/A = Not Analyzed

Q = Duplicate

J = Estimated Value above the method detection limit

UU = Estimated Value below the method detection limit

ADA 000151

Sample Results for July/August 1998.

15-Jan-99

RFI.mdb // rptRFISo8

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TABLE 11
Soil Sampling Results

Parameter	Units	SSR-14	SSR-15	SSR-16	SSR-17	SSR-18	SSR-19	SSR-20	SSR-21	SSR-22
Inorganic Indicators										
Cation Exchange Capacity	meq/100g	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Carbon (Walkley-Black)	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Petroleum Hydrocarbons	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	U	N/A	U
Sulfide, Acid Volatile	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals										
Arsenic	mg/kg	4.7	7.2	13		33 J	U	N/A	5.7	N/A
Barium	mg/kg	48	36 J	38	350	55 J	65	N/A	49	N/A
Beryllium	mg/kg	U	0.62	0.83	U	U	U	N/A	U	N/A
Cadmium	mg/kg	U	U	U	U	U	U	N/A	U	N/A
Chromium	mg/kg	16	40	25	12	10 U		N/A	16	N/A
Cobalt	mg/kg	6.0	4.3	7.4	74	4.3 J		N/A	9.1	N/A
Lead	mg/kg	250	42	15	35	110 J	52		28	N/A
Manganese	mg/kg	68	100	310	5,500	370 J	2,600	N/A	670	N/A
Mercury	mg/kg	0.079	3.3 J	0.056	0.049	0.42 J	0.055	N/A	0.30	N/A
Nickel	mg/kg	8.4	8.6 J	18	98	11	69	N/A	8.6	N/A
Vanadium	mg/kg	30	52	41	67	15 J	93	N/A	40	N/A
Organophosphorus Pesticides										
Methyl parathion	mg/kg	U	U	U	U	0.10 J	U	N/A	0.049 J	N/A
Parathion	mg/kg	U	U	U	U	U	U	N/A	0.056 J	N/A
Tetraethylthiopyrophosphate (Sulfotepp)	mg/kg	U	U	U	U	U	U	N/A	U	N/A

U = Below Detection Limit

N/A = Not Analyzed

Q = Duplicate

J = Estimated Value above the method detection limit

UJ = Estimated Value below the method detection limit

ADA 000152

Sample Results for July/August 1998.

15-Jan-99

RFI.mdb // rpiRFISoil

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TABLE 11
Soil Sampling Results

Parameter	Units	SSR-14	SSR-15	SSR-16	SSR-17	SSR-18	SSR-19	SSR-20	SSR-21	SSR-22
PCBs										
Aroclor 1016	mg/kg	U	U	U	U	U	U	N/A	U	N/A
Aroclor 1221	mg/kg	U	U	U	U	U	U	N/A	U	N/A
Aroclor 1232	mg/kg	U	UJ	U	U	U	U	N/A	U	N/A
Aroclor 1242	mg/kg	U	46 J	U	U	U	U	N/A	U	N/A
Aroclor 1248	mg/kg	2.9	U	U	U	16,000 J	0.48 J	N/A	0.059 J	N/A
Aroclor 1254	mg/kg	2.4	12 J	U	U	U	U	N/A	0.12	N/A
Aroclor 1260	mg/kg	1.1	7.0 J	U	U	U	0.027	N/A	0.38	N/A
Total PCBs	mg/kg	6.4	65	U	U	U	0.51	N/A	0.56	N/A
SVOCs										
1,2-Dichlorobenzene	mg/kg	U	U	U	U	U	U	N/A	U	N/A
1,4-Dichlorobenzene	mg/kg	U	U	U	U	U	U	N/A	U	N/A
2,4,5-Trichlorophenol	mg/kg	U	U	U	U	U	U	N/A	U	N/A
2,4,6-Trichlorophenol	mg/kg	U	U	U	U	U	U	N/A	U	N/A
2,4-Dichlorophenol	mg/kg	U	U	U	U	U	U	N/A	U	N/A
4-Nitrophenol (Paranitrophenol)	mg/kg	U	U	U	U	U	U	N/A	U	N/A
o,o,o-Triethylphosphorothioate	mg/kg	U	U	U	U	U	U	N/A	U	N/A
Pentachlorophenol	mg/kg	U	U	U	U	U	U	N/A	U	N/A
Phenol	mg/kg	U	U	U	U	U	U	N/A	U	N/A
VOCs										
1,1,2,2-Tetrachloroethane	mg/kg	U	U	U	U	U	U	N/A	U	N/A
Chlorobenzene	mg/kg	U	0.0088	U	U	U	U	N/A	U	N/A
Isopropylbenzene	mg/kg	U	U	U	U	U	U	N/A	U	N/A
Methylene chloride (dichloromethane)	mg/kg	U	U	U	U	U	U	N/A	U	N/A

U = Below Detection Limit

N/A = Not Analyzed

Q = Duplicate

J = Estimated Value above the method detection limit

UJ = Estimated Value below the method detection limit

ADA 000153

Sample Results for July/August 1998.

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TABLE 15
Tier 1 Comparison of Maximum Detected Values
of Constituents of Potential Concern
In Groundwater to Risk-based Screening Levels

Constituent of Potential Concern	CAS #	Groundwater Screening Level (µg/L)	PRG ^c Endpoint	Maximum Detected Groundwater Conc. (µg/L) *
<i>Volatile Organic Analysis</i>				
1,1,2,2-Tetrachloroethane	79345	0.055 ^c	C	BDL
Chlorobenzene	108907	100		46
		(as monochloro-benzene) ^b		
Isopropyl benzene (cumene)	98828	660 ^c	N	BDL
Methylene Chloride	75092	5.0 ^b		36
<i>Organophosphorus Pesticides</i>				
Parathion (ethyl parathion)	56382	200.0 ^a	N	645
Methyl parathion	298000	9.1 ^c	N	10
Sulfotepp (Tetraethyldithio-pyrophosphate)		MDL (0.5) ^a		2.0
<i>Semi-Volatile Organic Analysis</i>				
1,2-Dichlorobenzene	95501	600 ^b		BDL
1,4-Dichlorobenzene	106467	75 ^b		BDL
2,4,5-Trichlorophenol	95954	10 ^c	N	BDL
2,4,6-Trichlorophenol	88062	6 ^c	C	BDL
2,4-Dichlorophenol	120832	110 ^c	N	BDL
Phenol	108952	20000 ^a		BDL
4-Nitrophenol (paranitrophenol)	100-02-7	1000 ^a		2300
Pentachlorophenol	87-86-5	1.0 ^b		1.0
o,o,o-Triethylphosphorothioate		1000 ^a		330
<i>Polychlorinated Biphenyl Analysis (filtered/unfiltered)</i>				
Total PCBs	1336363	0.5 ^b		BDL
<i>Inorganic Analysis (filtered/unfiltered)</i>				
Arsenic	7440382	50 ^b		BDL
Barium	7440393	2600 ^c	N	1300
Beryllium	7440417	73 ^c	N	4.0
Cadmium	7440439	18 ^c	N	BDL
Chromium (Total)	7440473	10 ^b		39
Cobalt	7440484	2200 ^c	N	81
Lead	7439921	15 ^d		36
Manganese	7439965	1700 ^c	N	4500
Mercury	7439976	11 ^c	N	1.0
Nickel	7440020	730 ^c	N	61
Vanadium	7440622	260 ^c	N	BDL

* ADEM GPS ACLs= Alabama Groundwater Protection Standard or Alternative Concentration Levels (RCRA permit Table II.4)

^b USEPA MCLs = Maximum Contaminant Levels (USEPA, 1996)

^c USEPA Region 9 Preliminary Remediation Goals (PRGs) for tap water (USEPA, 1998b)

^d USEPA recommended action level

* Values in bold exceeded the screening level

MDL = method detection limit. Values for the limit of detection are given in parentheses

BDL = below detection limit

Endpoint: C=cancer; N=Non-cancer

TABLE 16
Tier 1 Comparison of Maximum Detected Values
of Constituents of Potential Concern
In Surficial Soil to Risk-based Screening Levels

Constituent of Potential Concern	CAS #	USEPA Region 9 PRGs for Industrial Soil (mg/kg) ^a	PRG Endpoint	Maximum Detected Soil Concentration (mg/kg) ^b
<i>Volatile Organic Analysis</i>				
1,1,2,2-Tetrachloroethane	79345	0.87	C	BDL
Chlorobenzene	108907	180	N	0.02
Isopropyl benzene (cumene)	98828	520	N	BDL
Methylene Chloride	75092	20	C	0.033
<i>Organophosphorus Pesticides</i>				
Parathion (Ethyl parathion)	56382	6400	N	0.06
Methyl parathion	298000	270	N	0.1
Sulfotepp (Tetraethyldithiopyrophosphate)				BDL
<i>Semi-Volatile Organic Analysis</i>				
1,2 Dichlorobenzene	95501	370	Sat	BDL
1,4-Dichlorobenzene	106467	7.3	C	BDL
2,4,5-Trichlorophenol	95954	110000	N	BDL
2,4,6-Trichlorophenol	88062	270	C	BDL
2,4-Dichlorophenol	120832	1200	N	BDL
Phenol	108952	100000	Max	BDL
4-Nitrophenol (paranitrophenol)	100027	66000	N	BDL
Pentachlorophenol	87865	15	C	BDL
o,o,o-Trichethylphosphorothioate				BDL
<i>Polychlorinated Biphenyl Analysis</i>				
Total PCBs	133636	1.3	C	11,960*
<i>Inorganic Analysis</i>				
Arsenic	7440382	480	N	26
Barium	7440393	100000	Max	780
Beryllium	7440411	3400	N	1.7
Cadmium	7440439	930	N	0.92
Chromium (Total)	7440473	450	C	110
Cobalt	7440484	29000	N	74
Lead	7439921	1000	N	250
Manganese	7439965	45000	N	12000
Mercury	7439976	560	N	2.2
Nickel	7440020	37000	N	2400
Vanadium	7440622	13000	N	93

^a USEPA, 1998b. Region 9 Preliminary Remediation Goals.

^b Values in bold exceed the screening level.

BDL = below detection limit

Endpoint values indicate the basis of the PRG: cancer (C); non-cancer (N); soil saturation equation (sat); or for relatively less toxic inorganic and semi-volatile contaminants a non-risk based ceiling limit concentration is given as 10⁻⁵ mg/kg (max).

*This value is a mean of the sample and duplicate result.

January 1999

TABLE 17
Constituents of Potential Concern
In Groundwater that Exceeded Tier 1
Screening Levels

Solutia: RFI/CS Draft Report
Revision 0

Methylene Chloride

Parathion

Methyl Parathion

Sulfotepp
(Tetraethyldithiopyrophosphate)

4-Nitrophenol (paranitrophenol)

Chromium

Lead

Manganese

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TABLE 18
Constituents of Potential Concern
in Surficial Soil that Exceeded Tier 1
Screening Levels

Solutia: RFI/CS Draft Report
Revision 0

Polychlorinated Biphenyls

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