

Table B-6. Site Investigations and Monitoring at Waste Management Facilities in the A- and M-Area Geographic Grouping<sup>a</sup>

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Facility	RCRA monitoring well <sup>b</sup>	Site investigations <sup>c</sup>	Monitoring results	
HAZARDOUS WASTE SITES				
Motor-shop seepage basin (904-110G)	AOB 1 AOB 2	Wells monitored quarterly for RCRA and SCHWMM parameters. Liquid sample from basin has been analyzed. Sediment beneath basin to be characterized.	Trace quantities of following materials present in the basin liquid: <ul style="list-style-type: none"> <li>• Ethylene glycol</li> <li>• Kerosene</li> <li>• Motor oil</li> <li>• Grease</li> </ul>	
Metals-burning pit (731-4A)/miscellaneous chemical basin (731-5A)	ABP 1A ABP 2A ABP 3 ABP 4	Wells monitored quarterly for RCRA and SCHWMM parameters. Surface soil analysis conducted in January 1986.	Trichloroethylene and tetrachloroethylene found in wells ABP-2A and ABP-3. Surface soil analysis indicates presence of: <ul style="list-style-type: none"> <li>• Tetrachloroethylene</li> <li>• Trichloroethylene</li> <li>• Trans, 1,2-dichloroethylene</li> </ul>	
Silvertown Road waste site (731-3A)	SRW 1	Wells monitored quarterly for RCRA and SCHWMM parameters. Waste-site sediment characterization program completed in 1983. Conductivity survey completed.	Groundwater constituents include: <ul style="list-style-type: none"> <li>• Trichloroethylene</li> <li>• Tetrachloroethylene</li> <li>• 1,1,1-trichloroethane</li> <li>• Chloroform</li> <li>• Barium (Metals not observed in recent surveys)</li> <li>• Cadmium</li> <li>• Chromium</li> <li>• Lead</li> <li>• Iron</li> </ul> Waste sediment analysis inconclusive. Soil constituents might include: <ul style="list-style-type: none"> <li>• Trichloroethylene</li> <li>• Tetrachloroethylene</li> <li>• 1,1,1-trichloroethane</li> </ul> Conductivity anomalies most likely due to increased clay content or metal objects	TC
	SRW 2, 2A, 2B			
	SRW 3A			
	SRW 4			
	SRW 5			
	SRW 6			
	SRW 7			
	SRW 8			
	SRW 9, 9A, 9B			
	SRW 10			
	SRW 11			
	SRW 12A, 12B, 12C			
	SRW 13A, 13B, 13C			
	SRW 14A, 14B, 14C			
	SRW 15A, 15B, 15C			
	SRW 16A, 16B, 16C			
Metallurgical-Lab basin (904-110G)	AMB 1A AMB 2 AMB 3A	Wells monitored quarterly for RCRA and and SCHWMM parameters. Soil and basin-water characterization program completed in 1985.	Sediment samples contain no organic compounds or metals above EPA guidelines. Basin-water samples pass all drinking-water standards except those for pH and iron	TC

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Table B-6. Site Investigations and Monitoring at Waste Management Facilities in the A- and M-Area Geographic Grouping<sup>a</sup> (continued)

TE

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HAZARDOUS WASTE SITES (continued)			
Burning/rubble pits (731-A, 731-1A)	ARP1A ARP2 ARP3 ARP4	Wells monitored quarterly for RCRA and SCHWMR parameters. Waste-site sediment characterization program to be initiated.	Statistical analysis of groundwater monitoring data shows the following to be present: <ul style="list-style-type: none"> <li>● Manganese</li> <li>● Sodium</li> <li>● Sulfate</li> <li>● Nitrate</li> <li>● Iron</li> </ul>
LOW-LEVEL WASTE SITES			
SRL seepage basins [904-53G (two basins), 904-54G, 904-55G]	ABS 1A ABS 2A ABS 3 ABS 4 ABS 5A	Wells monitored quarterly for RCRA and SCHWMR parameters. Seepage basin sediment characterization program completed in 1983.	Statistical analysis of groundwater data indicates the following are present: <ul style="list-style-type: none"> <li>● Manganese</li> <li>● Sodium</li> <li>● Chloride</li> </ul> Trichloroethylene and tetrachloroethylene present in groundwater but might be from another source. Analysis of sediment cores showed the following to be present: <ul style="list-style-type: none"> <li>● Arsenic</li> <li>● Cadmium</li> <li>● Chromium</li> <li>● Copper</li> <li>● Fluoride</li> <li>● Lead</li> <li>● Mercury</li> <li>● Nickel</li> <li>● Silver</li> <li>● Sodium</li> <li>● Americium-241</li> <li>● Cesium-137</li> <li>● Cobalt-60</li> <li>● Curium-243, -244</li> <li>● Plutonium-238</li> <li>● Plutonium-239, -240</li> <li>● Strontium-90</li> <li>● Uranium-235, -238</li> <li>● Tritium</li> </ul>

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Table B-6. Site Investigations and Monitoring at Waste Management Facilities in the A- and M-Area Geographic Grouping<sup>a</sup> (continued)

Facility	RCRA monitoring well <sup>b</sup>	Site investigations <sup>c</sup>	Monitoring results
MIXED WASTE SITES			
M-Area settling basin (904-51G) Lost Lake (904-112G)	MSB 1A MSB 2A MSB 3A MSB 4A MSB 5A MSB 6A MSB 7A MSB 8A Additional wells to be installed	Wells monitored quarterly for RCRA and SCHWMMR parameters. Initial (1981-1982) waste-site characterization studies examined waste liquid and sludge, as well as soil under basin and in overflow ditch, seepage area, and Lost Lake. Extended characterization program (1984-1985) sought to confirm results of 1981-1982 study and provide additional data to support closure activities.	Statistical analysis of groundwater monitoring data indicates the following are present: <ul style="list-style-type: none"> <li>• Conductivity</li> <li>• Total dissolved solids</li> <li>• Gross beta</li> <li>• Total organic halogen</li> <li>• pH</li> <li>• Gross alpha</li> <li>• Radium</li> <li>• Chromium</li> <li>• Manganese</li> <li>• Sodium</li> <li>• Nickel</li> <li>• Chloride</li> <li>• Cyanide</li> <li>• Fluoride</li> <li>• Nitrate</li> <li>• Sulfate</li> <li>• Dissolved organic carbon</li> <li>• Phenols</li> <li>• Total organic carbon</li> <li>• Zinc</li> </ul> Soil constituents include: <ul style="list-style-type: none"> <li>• Bisphthalate</li> <li>• Tetrachloroethylene</li> <li>• 1,1,1-trichloroethane</li> <li>• Di-n-octylphthalate</li> <li>• Toluene</li> <li>• Tetrachlorobiphenyl</li> <li>• Pentachlorobiphenyl</li> <li>• Hexachlorobiphenyl</li> <li>• Trichloroethylene</li> <li>• Methylene chloride</li> <li>• Uranium</li> <li>• Lead</li> <li>• Nickel</li> <li>• Copper</li> <li>• Chromium</li> <li>• Barium</li> </ul>

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<sup>a</sup>Sources: Huber, Johnson, and Bledsoe, 1987; Pickett, Muska, and Marine, 1987; Scott, Killian, Kolb, Corbo, and Bledsoe, 1987; Geraghty and Miller, 1985; Michael, Johnson, and Bledsoe, 1987; Huber, Johnson, and Marine, 1987; Fowler et al., 1987; Pickett, Colven, and Bledsoe, 1987.

<sup>b</sup>The monitored hydrogeologic unit for these wells is the McBean.

<sup>c</sup>See discussion on page B-1.