Table 1.1-1
Upper Los Alamos Canyon Aggregate Area Sites and Their Regulatory Status

Consolidated Unit	SWMU/AOC Number	Site Description	Site in HIR?	Site in Work Plan?	Site Status
TA-00					
00-003-99 Western Steam Plant	SWMU 00-003	Container storage area	Yes	No	NFA granted (NMED 2002, 73096)
	SWMU 00-012	Former underground blow-off tank	Yes	No	NFA granted (NMED 2002, 73096)
	SWMU 00-017	Waste lines	Yes	Yes	Investigation for former line 167; No sampling proposed for line 170 and line 171
	AOC 00-030(i)	Septic system	Yes	No	NFA granted (NMED 2002, 73096)
	AOC 00-031(a)	Soil contamination beneath former service station	Yes	Yes	No sampling proposed
	AOC 00-031(b)	Soil contamination beneath former motor pool (two USTs)	Yes	Yes	No sampling proposed
	AOC 00-032	Soil contamination beneath former motor pool (UST for used motor oil)	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 00-034(b)	Landfill, western area	Yes	Yes	No sampling proposed
	AOC 00-035(a)	Surface disposal	Yes	No	NFA granted (EPA 2005, 88464)
	AOC C-00-042	Tank (formerly part of SWMU 00-032)	Yes	Yes	No sampling proposed
TA-01					
01-001(a)-99 Miscellaneous TA-01	SWMU 01-001(a)	Septic tank 134	Yes	Yes	Investigation
	SWMU 01-001(b)	Septic tank 135	Yes	Yes	Investigation
	SWMU 01-001(c)	Septic tank 137	Yes	Yes	Investigation
	SWMU 01-001(d)	Septic tank 138	Yes	Yes	Investigation
	SWMU 01-001(e)	Septic tank 139	Yes	Yes	Investigation
	SWMU 01-001(f)	Septic tank 140	Yes	Yes	Investigation
	SWMU 01-001(g)	Septic tank 141	Yes	Yes	Investigation
	SWMU 01-001(o)	Sanitary waste line	Yes	Yes	Investigation
	SWMU 01-001(s)	Western sanitary waste line, main line	Yes	Yes	Investigation
	SWMU 01-001(t)	Eastern sanitary waste line	Yes	Yes	Investigation
	SWMU 01-001(u)	Western sanitary waste line, branch line	Yes	Yes	Investigation
	SWMU 01-002	Industrial waste line	Yes	Yes	Investigation
	SWMU 01-003(a)	Bailey Bridge landfill	Yes	Yes	Investigation
	SWMU 01-003(b)	Surface disposal area	Yes	Yes	Investigation

Table 1.1-1 (continued)

Consolidated Unit	SWMU/AOC Number	Site Description	Site in HIR?	Site in Work Plan?	Site Status
	SWMU 01-003(e)	Surface disposal site southeast of Los Alamos Inn	Yes	Yes	Investigation
	AOC 01-004(a)	Gas-fired incinerator	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 01-004(b)	Gas-fired incinerator	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 01-005	Bench-scale incinerator	Yes	No	NFA granted (EPA 2005, 88464)
	SWMU 01-006(a)	Cooling tower drain line and outfall	Yes	Yes	Investigation
	SWMU 01-006(b)	Drain line and outfall	Yes	Yes	Investigation
	SWMU 01-006(c)	Drain lines and outfalls	Yes	Yes	Investigation
	SWMU 01-006(d)	Drain line and outfall	Yes	Yes	Investigation
	AOC 01-006(e)	Drain lines and outfalls to Ashley Pond	Yes	Yes	Investigation
	AOC 01-006(g)	Stormwater drainage system	Yes	Yes	Investigation
	SWMU 01-006(h)	Stormwater drainage system	Yes	Yes	Investigation
	SWMU 01-006(n)	Stormwater drainage system	Yes	Yes	Investigation
	SWMU 01-006(o)	Stormwater drainage system	Yes	Yes	Investigation
	AOC 01-006(p)	Storm drain and outfall	Yes	No	NFA granted (EPA 1994, 38816)
	SWMU 01-007(a)	Suspected subsurface soil radiological contamination	Yes	Yes	Investigation
	SWMU 01-007(b)	Suspected subsurface soil radiological contamination	Yes	Yes	Investigation
	SWMU 01-007(c)	Suspected subsurface soil radiological contamination	Yes	Yes	Investigation
	SWMU 01-007(d)	Suspected subsurface soil radiological contamination	Yes	Yes	Investigation
	SWMU 01-007(e)	Suspected subsurface soil radiological contamination	Yes	Yes	Investigation
	AOC 01-007(f)	Suspected soil contamination	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-007(h)	Suspected soil contamination	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-007(i)	Suspected soil contamination	Yes	No	NFA granted (EPA 1994, 38816)
	SWMU 01-007(j)	12 areas of suspected subsurface soil radiological contamination	Yes	Yes	Investigation
	SWMU 01-007(l)	Suspected subsurface soil contamination	Yes	Yes	No sampling proposed

Table 1.1-1 (continued)

Consolidated Unit	SWMU/AOC Number	Site Description	Site in HIR?	Site in Work Plan?	Site Status
	AOC 01-007(m)	Suspected soil contamination	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-007(o)	Suspected soil contamination	Yes	No	NFA granted (EPA 1994, 38816)
	SWMU 01-001(h)	Septic tank 142	Yes	No	NFA granted (EPA 1994, 38816)
	SWMU 01-001(i)	Septic tank 143	Yes	No	NFA granted (EPA 1994, 38816)
	SWMU 01-001(j)	Septic tank 149	Yes	No	NFA granted (EPA 1994, 38816)
	SWMU 01-001(k)	Septic tank 268	Yes	No	NFA granted (EPA 1994, 38816)
	SWMU 01-001(l)	Septic tank 269	Yes	No	NFA granted (EPA 1994, 38816)
	SWMU 01-001(m)	Septic tank 275	Yes	No	NFA granted (NMED 2000, 68552)
	SWMU 01-001(n)	Septic tank 276	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-001(p)	Septic system	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 01-001(q)	Septic system	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-001(r)	Septic system	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 01-001(v)	Septic system	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-001(w)	Septic system	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-003(c)	Surface disposal site	Yes	Yes	No sampling proposed
	SWMU 01-003(d)	Surface disposal site – Can Dump Site	Yes	Yes	Investigation
	AOC 01-006(f)	Drain lines and outfall	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 01-006(i)	Drain lines and outfall	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-006(j)	Drain lines and outfall	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 01-006(k)	Drain lines and outfall	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-006(l)	Drain lines and outfall	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-006(m)	Drain lines and outfall	Yes	No	NFA granted (EPA 1994, 38816)

Table 1.1-1 (continued)

Consolidated Unit	SWMU/AOC Number	Site Description	Site in HIR?	Site in Work Plan?	Site Status
	AOC 01-006(q)	Drain lines and outfall	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 01-006(r)	Drain lines and outfall	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 01-006(s)	Drain lines and outfall	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 01-006(t)	Drain lines and outfall	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-007(g)	Soil-contamination area	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-007(k)	Soil-contamination area	Yes	Yes	Investigation
	AOC 01-007(n)	Soil-contamination area	Yes	No	NFA granted (EPA 1994, 38816)
	AOC 01-007(p)	Soil-contamination area	Yes	No	NFA granted (EPA 1994, 38816)
TA-03					
	AOC 03-001(m)	Satellite accumulation area	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 03-008(a)	Firing site	Yes	Yes	No sampling proposed
	SWMU 03-009(b)	Surface disposal area	Yes	No	NFA granted (NMED 1998, 63042)
	SWMU 03-009(j)	Surface disposal site	Yes	Yes	Investigation
03-038(a)-00 Tanks and/or Associated Equipment	SWMU 03-038(a)	Acid tank	Yes	Yes	Investigation
	SWMU 03-038(b)	Acid tank	Yes	Yes	Investigation
	SWMU 03-055(c)	Outfall	Yes	Yes	Investigation
	SWMU 03-055(d)	Storm drain (active)	Yes	No	NFA granted (NMED 2001, 70010)
TA-30					
	AOC 30-001	Surface disposal and landfill	Yes	No	NFA granted (DOE 1995, 50023)
TA-32					
	SWMU 32-001	Incinerator (former location)	Yes	Yes	Investigation
	SWMU 32-002(a)	Septic tank (former location); drain lines	Yes	Yes	Investigation
	SWMU 32-002(b)	Septic system	Yes	Yes	Investigation
	AOC 32-003	Transformer site (former location)	Yes	Yes	Investigation
	AOC 32-004	Drain line and outfall	Yes	Yes	Investigation
	AOC C-32-001	Buildings	Yes	No	NFA granted (EPA 2005, 88464)

Table 1.1-1 (continued)

Consolidated Unit	SWMU/AOC Number	Site Description	Site in HIR?	Site in Work Plan?	Site Status
TA-41					
	SWMU 41-001	Septic system	Yes	Yes	Investigation
41-002(a)-99 TA-41 Sewage Treatment Plant	SWMU 41-002(a)	Imhoff tank	Yes	Yes	Deferred action proposed
	SWMU 41-002(b)	Chlorine contact tank	Yes	Yes	Deferred action proposed
	SWMU 41-002(c)	Sludge-drying bed	Yes	Yes	Deferred action proposed
	AOC 41-003	Sump	Yes	Yes	Deferred action proposed
	SWMU 41-004	Container storage	Yes	No	NFA granted (EPA 2005, 88464)
	AOC C-41-001	Duplicate of AOC 41-003	Yes	No	NFA granted (EPA 2005, 88464)
	AOC C-41-002	Underground tank	Yes	No	NFA granted (EPA 2005, 88464)
	AOCC-41-003	Underground tank	Yes	No	NFA granted (EPA 2005, 88464)
	AOC C-41-004	Storm drains	Yes	Yes	Deferred action proposed
	AOC C-41-005	Duplicate of C-41-003	Yes	No	NFA granted (EPA 2005, 88464)
TA-43					
	SWMU 43-001(a1)	Waste lines (pre-1981)	Yes	Yes	Deferred action proposed
	AOC 43-001(a2)	Waste lines (post-1981)	Yes	Yes	Deferred action proposed
	AOC 43-001(b1)	Outfall	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 43-001(b2)	Outfall	Yes	Yes	Investigation
	SWMU 43-002	Incinerator	Yes	Yes	Deferred action proposed
	AOC 43-003	Carcass storage	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 43-004	Waste storage	Yes	No	NFA granted (EPA 2005, 88464)
	AOC 43-005	Radioactive liquid storage	Yes	No	NFA granted (EPA 2005, 88464)
	AOC C-43-001	Storm drain outfall	Yes	Yes	Investigation
TA-61					
	AOC 61-004(b)	Septic tank	Yes	No	NFA granted (EPA 2005, 88464)
	SWMU 61-007	Transformer site – systematic leak – PCB-only site	Yes	Yes	Investigation

Note: Shading denotes consolidated units.

Table 3.1-1
Summary of Analytical Suites for Samples Previously Collected in TA-00

AOC/ SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Cyanide (Total)	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	PCBs	Pesticides	SVOCs	VOCs
00-017	RE00-98-0054	00-10126	22.5–25	Tuff	9/24/1998	✓[a]	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0056	00-10127	19–21.5	Tuff	9/23/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0057	00-10127	22.5–25	Tuff	9/23/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0059	00-10128	19–21.5	Fill	9/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0060	00-10128	22.5–25	Tuff	9/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0062	00-10129	19.5–22	Fill	9/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0063	00-10129	22.5–25	Tuff	9/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0065	00-10130	19.5–22	Fill	9/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0066	00-10130	24–26.5	Tuff	9/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0068	00-10131	20.5–23	Fill	9/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0069	00-10131	25–27.5	Tuff	9/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0072	00-10132	16–18.5	Fill	10/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0073	00-10132	20–22.5	Tuff	10/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0074	00-10133	15–17.5	Soil	10/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0076	00-10133	18.5–21	Tuff	10/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0078	00-10134	15–17.5	Soil	10/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0079	00-10134	20–22.5	Tuff	10/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0083	00-10135	14–15.5	Soil	10/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0084	00-10135	20–22.5	Tuff	10/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0085	00-10136	12.5–14.5	Tuff	10/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0086	00-10136	14.5–16	Tuff	10/24/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0087	00-10137	12.5–15	Soil	10/25/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Table 3.1-1 (continued)

AOC/ SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Cyanide (Total)	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	PCBs	Pesticides	SVOCs	VOCs
00-017	RE00-98-0088	00-10137	16–18.5	Tuff	10/25/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0089	00-10138	12.5–15	Soil	10/25/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0090	00-10138	15–17.5	Tuff	10/25/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0091	00-10139	13–15	Soil	10/25/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0092	00-10139	15–17.5	Tuff	10/25/1998	✓	✓	◊[b]	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0093	00-10140	12.5–15	Soil	10/25/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0094	00-10140	16–18.5	Tuff	10/25/1998	✓	◊	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0095	00-10141	7.5–9	Soil	11/3/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-98-0099	00-10143	0.1–0.7	Sed	11/11/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	◊
00-017	RE00-98-0101	00-10144	1–2	Sed	11/11/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	◊
00-017	RE00-98-0103	00-10145	0.3–1	Sed	11/11/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	◊
00-017	RE00-98-0105	00-10146	0.2–1	Sed	11/11/1998	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
00-017	RE00-99-0003	00-10179	0.1–0.5	Soil	1/20/1999	◊	◊	◊	◊	◊	L[c]	◊	◊	◊	◊
00-017	RE00-99-0004	00-10180	0.1–0.4	Soil	1/20/1999	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-017	RE00-99-0005	00-10181	0.1–0.8	Soil	1/22/1999	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-017	RE00-99-0006	00-10182	0.2–0.8	Soil	1/22/1999	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-017	RE00-99-0007	00-10183	0.1–0.3	Soil	1/22/1999	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-017	RE00-99-0008	00-10184	0.1–0.6	Soil	1/22/1999	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-031(b)	AAB0242	00-01588	10–15	Tuff	5/16/1994	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-031(b)	AAB0243	00-01588	40–45	Tuff	5/16/1994	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-031(b)	AAB0244	00-01588	65–70	Tuff	5/16/1994	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-031(b)	AAB0246	00-01589	5–10	Tuff	5/17/1994	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-031(b)	AAB0247	00-01589	10–15	Tuff	5/17/1994	◊	◊	◊	◊	◊	L	◊	◊	◊	◊

Table 3.1-1 (continued)

AOC/ SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Cyanide (Total)	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	PCBs	Pesticides	SVOCs	VOCs
00-031(b)	AAB0248	00-01589	55–60	Tuff	5/17/1994	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-031(b)	AAB0249	00-01589	75–80	Tuff	5/18/1994	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-031(b)	AAB0171	00-01602	0.33–1	Soil	5/7/1994	◊	◊	◊	◊	◊	L	◊	◊	◊	◊
00-031(b)	AAB6639	00-01613	2.2–2.2	Soil	6/30/1994	◊	◊	◊	◊	◊	✓	◊	◊	✓	◊
00-031(b)	AAB6638	00-01614	1.8–1.8	Soil	6/30/1994	◊	◊	◊	◊	◊	✓	◊	◊	✓	◊

[a] ✓= Analysis was requested for the sample.

[b] ◊ = Analysis was not requested for the sample.

[c] L = Only lead was analyzed.

Table 3.2-1
Summary of Proposed Sampling at SWMU 00-017

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Canyon Portion of SWMU 00-017															
Determine nature and vertical extent of potential contamination beneath excavated pipeline	1	Beneath the excavated pipeline, on south wall of Los Alamos Canyon, between previous sampling locations 00-10146 and 00-10145	0–1* 2–3 4–5	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and vertical extent of potential contamination beneath excavated pipeline	2	Beneath the excavated pipeline, on south wall of Los Alamos Canyon, between location 1 and ULR-33	0–1* 2–3 4–5	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and vertical extent of potential contamination beneath excavated manhole	3	At the bottom of the excavated manhole ULR-33	0–1* 2–3 4–5	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and vertical extent of potential contamination beneath excavated pipeline	4	Beneath the excavated pipeline, on north wall of Los Alamos Canyon, between location 5 and ULR-33	0–1* 2–3 4–5	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and vertical extent of potential contamination beneath excavated pipeline	5	Beneath the excavated pipeline, on north wall of Los Alamos Canyon, between previous sampling locations 00-10144 and 00-10143	0–1* 2–3 4–5	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X

*Zero depth is defined as immediately beneath the excavated pipe or structure.

Table 4.1-1
Summary of Analytical Suites for Samples Previously Collected in TA-01

AOC/SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	PCBs	Pesticides	SVOCs	VOCs
01-001(b)	AAA0716	01-01162	0–0.5	Soil	7/20/1992	◊a	◊	✓b	◊	✓	◊	◊	✓	◊
01-001(b)	AAA0717	01-01168	0–0.5	Soil	7/20/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-001(b)	AAA0719	01-01174	0–0.5	Soil	7/20/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-001(c)	AAA1521	01-03003	0–0.5	Fill	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-001(c)	AAA1550	01-03015	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-001(c)	AAA1551	01-03023	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-001(d)	AAA1514	01-05028	0–0.5	Soil	8/17/1992	◊	◊	◊	◊	□c	◊	◊	◊	◊
01-001(d)	AAB7445	01-05219	0–0.5	Soil	9/26/1994	◊	◊	✓	◊	◊	◊	◊	◊	◊
01-001(d)	AAB7447	01-05219	0.5–1.83	Soil	9/26/1994	◊	◊	✓	◊	◊	◊	◊	◊	◊
01-001(f)	AAA0723	01-01083	0–0.5	Soil	7/23/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-001(f)	AAA0724	01-01090	0–0.5	Soil	7/23/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-001(f)	AAA0726	01-01095	0–0.5	Soil	7/23/1992	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-001(f)	AAA0727	01-01096	0–0.5	Soil	7/23/1992	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-001(f)	AAA0733	01-01110	0–0.5	Soil	7/23/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-001(f)	AAA0736	01-01112	0–0.5	Soil	7/23/1992	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-001(g)	AAA1631	01-06069	0–0.5	Fill	9/9/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-001(o)	AAA1495	01-02064	0–0.5	Fill	8/3/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-001(o)	AAA1528	01-02073	0–0.5	Soil	8/3/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-001(o)	AAA1530	01-02075	0–0.5	Sed	8/3/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-001(o)	AAA1531	01-02080	0–0.5	Soil	8/3/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-001(o)	AAA1532	01-02095	0–0.5	Sed	8/3/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-001(o)	AAA1533	01-02096	0–0.5	Soil	8/3/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊

Table 4.1-1 (continued)

AOC/SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	PCBs	Pesticides	SVOCs	VOCs
01-001(s)	AAA8267	01-04105	4.75–5.75	Soil	2/15/1994	◊	◊	✓	✓	◊	✓	✓	◊	◊
01-001(s)	AAA8272	01-04109	5–6.5	Soil	2/17/1994	◊	◊	✓	✓	✓	◊	◊	◊	◊
01-001(s)	AAA8308	01-04120	6–7.5	Soil	2/21/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-001(s)	AAC0514	01-04260	0–4	Soil	11/23/1994	✓	✓	✓	✓	✓	✓	✓	✓	◊
01-001(u)	AAA8274	01-04129	1–3	Soil	2/25/1994	◊	◊	✓	✓	✓	✓	✓	✓	✓
01-002	AAA1836	01-04021	2–8	Soil	3/16/1993	◊	◊	✓	✓	◊	◊	◊	◊	◊
01-002	AAA1837	01-04022	3–12	Soil	3/16/1993	◊	◊	✓	✓	◊	◊	◊	◊	◊
01-002	AAA1841	01-04026	4–8	Soil	3/18/1993	◊	◊	✓	✓	◊	◊	◊	◊	◊
01-002	AAB8598	01-04219	8.75–9.25	Fill	8/29/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8599	01-04220	3.33–3.83	Fill	8/29/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8601	01-04220	6.5–7	Fill	8/29/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8597	01-04220	9–9.5	Fill	8/29/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8607	01-04222	14.25–14.75	Soil	8/30/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8605	01-04222	16.42–16.92	Tuff	8/30/1994	✓	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8594	01-04223	7.25–8.25	Fill	8/31/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8595	01-04223	9.5–10	Tuff	8/31/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8592	01-04224	8.75–9.25	Fill	8/31/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8593	01-04224	12–12.5	Tuff	8/31/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8596	01-04225	12.33–12.83	Fill	8/31/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8590	01-04225	20–20.5	Tuff	9/1/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-002	AAB8614	01-04226	1.42–1.92	Fill	9/1/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-002	AAB8611	01-04227	6.25–6.75	Fill	9/1/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-003(a)	AAA1494	01-02058	0–0.5	Fill	8/3/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊

Table 4.1-1 (continued)

AOC/SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	PCBs	Pesticides	SVOCs	VOCs
01-003(a)	AAA1540	01-02114	0–0.5	Soil	8/10/1992	◊	◊	✓	✓	✓	◊	◊	◊	◊
01-003(a)	AAA1541	01-02122	0–0.5	Sed	8/10/1992	◊	◊	✓	✓	✓	◊	◊	◊	◊
01-003(a)	AAA1545	01-02133	0–0.5	Soil	8/10/1992	◊	◊	✓	✓	✓	◊	◊	◊	◊
01-003(a)	AAA1630	01-06064	0–0.5	Fill	9/9/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-003(d)	AAA0709	01-06005	0–0.5	Soil	7/20/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-003(d)	AAA0711	01-06014	0–0.5	Soil	7/20/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-003(d)	AAA0712	01-06023	0–0.5	Soil	7/20/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-003(e)	AAA0752	01-05041	0–0.5	Soil	8/10/1992	◊	◊	✓	✓	✓	◊	◊	◊	◊
01-003(e)	AAA1509	01-05046	0–0.5	Sed	8/10/1992	◊	◊	✓	✓	✓	◊	◊	◊	◊
01-006(a)	AAA1569	01-03083	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-006(a)	AAA1557	01-03088	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-006(a)	AAA1558	01-03093	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(a)	AAA1555	01-03053	0–0.5	Fill	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(a)	AAA1565	01-03065	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(a)	AAA1566	01-03069	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(a)	AAA1567	01-03074	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(a)	AAA1568	01-03081	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(a)	AAA1599	01-03103	0–0.5	Soil	9/2/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(a)	AAA1601	01-03106	0–0.5	Soil	9/2/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(a)	AAA1603	01-03113	0–0.5	Soil	9/2/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(a)	AAA1604	01-03114	0–0.5	Soil	9/2/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(a)	AAA1605	01-03117	0–0.5	Sed	9/2/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(a)	AAA1838	01-04024	8–12	Soil	3/16/1993	◊	◊	✓	✓	◊	◊	◊	◊	◊

Table 4.1-1 (continued)

AOC/SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	PCBs	Pesticides	SVOCs	VOCs
01-007(a)	AAA1839	01-04025	4–8	Soil	3/16/1993	◊	◊	✓	✓	◊	◊	◊	◊	◊
01-007(a)	AAA1842	01-04027	2–12	Fill	3/18/1993	◊	◊	✓	✓	◊	◊	◊	◊	◊
01-007(a)	AAA1843	01-04029	2–6	Soil	3/18/1993	◊	◊	✓	✓	◊	◊	◊	◊	◊
01-007(a)	AAA1844	01-04030	8–12	Fill	3/18/1993	◊	◊	✓	✓	◊	◊	◊	◊	◊
01-007(a)	AAA1845	01-04035	8–12	Soil	3/16/1993	◊	◊	✓	✓	◊	◊	◊	◊	◊
01-007(b)	AAA1522	01-03007	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(b)	AAA1552	01-03033	0–0.5	Fill	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(b)	AAA1553	01-03045	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(b)	AAA1554	01-03051	0–0.5	Soil	8/19/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(b)	AAA1602	01-03110	0–0.5	Fill	9/2/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(b)	AAA1607	01-03124	0–0.5	Sed	9/2/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(b)	AAA1608	01-03125	0–0.5	Sed	9/2/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(b)	AAA1609	01-03126	0–0.5	Sed	9/2/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(b)	AAA1610	01-03127	0–0.5	Tuff	9/2/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(b)	AAA1611	01-03128	0–0.5	Fill	9/2/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(b)	AAA1632	01-06073	0–0.5	Soil	9/9/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(b)	AAA1633	01-06074	0–0.5	Soil	9/9/1992	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(d)	AAB8620	01-04211	5.42–5.92	Soil	8/25/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(d)	AAB8619	01-04212	8.75–9.25	Soil	8/25/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(d)	AAB8638	01-04212	13.67–14.17	Tuff	8/25/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(d)	AAB8625	01-04213	2.75–3.25	Fill	8/26/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(d)	AAB8623	01-04214	2.67–3.17	Fill	8/26/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(d)	AAB8627	01-04215	3.5–4	Fill	8/26/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊

Table 4.1-1 (continued)

AOC/SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	PCBs	Pesticides	SVOCs	VOCs
01-007(d)	AAB8629	01-04216	4–4.5	Fill	8/26/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(d)	AAB8632	01-04217	6.75–7.25	Fill	8/29/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(d)	AAB8634	01-04217	7.83–8.33	Fill	8/29/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(d)	AAB8636	01-04218	6–6.5	Fill	8/29/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(d)	AAB8633	01-04218	6.67–7.17	Fill	8/29/1994	◊	◊	◊	◊	✓	◊	◊	◊	◊
01-007(d)	AAB8604	01-04221	3.33–3.83	Fill	8/30/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-007(d)	AAB8603	01-04221	19.5–20	Fill	8/30/1994	◊	◊	◊	◊	✓	◊	◊	✓	◊
01-007(j)	AAA1486	01-02034	0–0.5	Fill	8/3/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-007(j)	AAA1487	01-02035	0–0.5	Fill	8/3/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-007(j)	AAA1489	01-02036	0–0.5	Fill	8/3/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-007(j)	AAA1490	01-02038	0–0.5	Fill	8/3/1992	◊	◊	✓	◊	✓	◊	◊	✓	◊
01-007(l)	0101-95-0051	01-10131	0.5–3	Soil	6/30/1996	✓	◊	✓	✓	✓	◊	◊	◊	◊
01-007(l)	0101-95-0052	01-10132	0.5–4	Soil	6/30/1996	✓	◊	✓	✓	✓	◊	◊	◊	◊
01-007(l)	0101-95-0053	01-10133	0.5–1.25	Soil	6/30/1996	✓	◊	✓	✓	✓	◊	◊	◊	◊

[a] ◊ = Analysis was not requested for the sample.

[b] ✓= Analysis was requested for the sample.

[c] M = Only mercury was analyzed.

Table 4.2-1
Summary of Proposed Sampling at SWMU 01-001(a)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Septic System Pipelines																		
Determine nature and vertical extent of potential contamination beneath the turn in the septic system pipeline	1	Beneath the excavated pipeline, west arm of system, at bend in pipe	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the turn in the septic system pipeline	2	Beneath the excavated pipeline, east arm of system, at bend in pipe	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the joint in the septic system pipeline	3	Beneath the excavated pipeline, at the junction of east and west arms	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Septic Tank (Tank 134)																		
Determine nature and vertical extent of potential contamination beneath excavated septic tank	4	Center of the floor of the excavated septic tank	0–1[a] 4–5	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Outfall																		
Determine nature and vertical extent of potential contamination at the mouth of the outfall	5	At the outfall	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[b] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	6	7 ft downslope from location 5	Two depths[c]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	7	7 ft west of location 6	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	8	7 ft east of location 6	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Unless specified, zero depth is defined as below ground surface.
[a] Zero depth is defined as immediately beneath the excavated tank or pipe.
[b] — = This sample analysis will not be requested.
[c] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.3-1
Summary of Proposed Sampling at SWMU 01-001(b)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Septic System Pipelines																		
Determine nature and vertical extent of potential contamination beneath the septic system pipeline	1	Beneath the north end of the excavated pipe	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the septic system pipeline	2	Beneath the east end of the excavated pipe	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Septic Tank (Tank 135)																		
Determine nature and vertical extent of potential contamination beneath excavated septic tank	3	Center of the floor of the excavated septic tank	0–1[a] 4–5	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Outfall																		
Determine nature and vertical extent of potential contamination at the mouth of the outfall	4	At the outfall	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[b] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	5	7 ft downslope from location 4	Two depths[c]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	6	7 ft west of location 5	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	7	7 ft east of location 5	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Unless specified, zero depth is defined as below ground surface.

[a] Zero depth is defined as immediately beneath the excavated tank or pipe.

[b] — = This sample analysis will not be requested.

[c] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.4-1
Summary of Proposed Sampling at SWMUs 01-001(c), 01-006(c), 01-006(d), and 01-007(b)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Septic System Pipeline, Septic Tank, and Outfall of SWMU 01-001(c)																		
Determine nature and vertical extent of potential contamination beneath the septic system pipeline	1	Beneath the origin of the excavated pipe	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath excavated septic tank	2	Center of the floor of the excavated septic tank	0–1[a] 4–5	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination at the mouth of the outfall	3	At the outfall	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[b] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	4	7 ft downslope from location 3	Two depths[c]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	5	7 ft west of location 4	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	6	7 ft east of location 4	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Areas of SWMUs 01-006(c, d) and 01-007(b)																		
Determine extent of potential contamination	7	50 ft west of location 1	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	8	1 ft downslope from previous sampling location 01-04044	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	9	Near the pipe ends of the drain lines of SWMU 01-006(c)	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 4.4-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	AL Metals	yanide	litrates	erchlorate	VOCs	VOCs	CBs	amma Spectroscopy	mericium-241	sotopic Plutonium	sotopic Uranium	trontium-90	ritium	loisture	H
Determine extent of potential contamination	10	Near the pipe end of the drain line of SWMU 01-006(d)	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	11	1 ft downslope from previous sampling location 01-03125	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	12	60 ft south of location 10	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Hillside 137																		
Determine extent of potential contamination	13	50 ft downslope from location 11	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	14	1 ft downslope from previous sampling location 01-03023	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	15	60 ft east of location 14	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	16	50 ft downslope from location 13	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	17	40 ft downslope from location 14	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	18	40 ft downslope from location 15	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	19	40 ft downslope of location 16	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	20	1 ft downslope from previous sampling location 01-03045	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 4.4-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	AL Metals	yanide	litrates	erchlorate	VOCs	VOCs	CBs	amma Spectroscopy	mericium-241	sotopic Plutonium	sotopic Uranium	trontium-90	ritium	loisture	H
Determine extent of potential contamination	21	1 ft downslope from previous sampling location 01-03051	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	22	40 ft downslope of location 19	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	23	40 ft downslope of location 20	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	24	40 ft downslope of location 21	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Unless specified, zero depth is defined as below ground surface.

[a] Zero depth is defined as immediately beneath the excavated tank or pipe.

[b] — = This sample analysis will not be requested.

[c] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.5-1
Summary of Proposed Sampling at SWMUs 01-001(d) and 01-006(h)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Septic System Pipeline																		
Determine nature and vertical extent of potential contamination beneath the turn in the septic system pipeline	1	Beneath the excavated pipeline at the bend in pipe	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Outfall																		
Determine nature and vertical extent of potential contamination at the mouth of the outfall	2	At the outfall	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[b] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	3	7 ft downslope from location 2	Two depths[c]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	4	7 ft west of location 3	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	5	7 ft west of location 3	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Hillside 138																		
Determine extent of potential contamination	6	60 ft downslope from canyon rim and 80 ft west of location 7	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	7	1 ft downslope from previous sampling location 01-05028	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	8	60 ft east of location 7	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	9	70 ft downslope from location 6	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 4.5-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Determine extent of potential contamination	10	1 ft downslope from previous sampling location 01-05219	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	— X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	11	70 ft downslope from location 8	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	12	70 ft downslope from location 9	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	13	70 ft downslope from location 10	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	14	70 ft downslope from location 11	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	15	Downslope from location 12 and after the steep cliff	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	16	Downslope from location 13 and after the steep cliff	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	17	Downslope from location 14 and after the steep cliff	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	18	80 ft downslope from location 15	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	19	80 ft downslope from location 16	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	20	80 ft downslope from location 17	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	21	80 ft downslope from location 18	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 4.5-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Determine extent of potential contamination	22	80 ft downslope from location 19	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	23	80 ft downslope from location 20	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Unless specified, zero depth is defined as below ground surface.

[a] Zero depth is defined as immediately beneath the excavated pipe.

[b] — = This sample analysis will not be requested.

[c] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.6-1
Summary of Proposed Sampling at SWMU 01-001(e)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Septic System Pipelines																		
Determine nature and vertical extent of potential contamination beneath the turn in the septic system pipeline	1	Beneath the excavated pipeline, west of Oppenheimer Dr.	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the joint in the septic system pipeline	2	Beneath the excavated pipeline, at the pipe joint, south of the intersection of Oppenheimer Dr. and Loma Vista Dr.	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

*Zero depth is defined as immediately beneath the excavated pipe.

Table 4.7-1
Summary of Proposed Sampling at SWMU 01-001(f)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Septic System Pipelines																		
Determine nature and vertical extent of potential contamination beneath the septic system pipeline	1	Beneath the south end of the excavated pipeline	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the septic system pipeline	2	Beneath the excavated pipeline, beneath the asphalt road	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Outfall																		
Determine nature and extent of potential contamination at the mouth of the outfall	3	At the outfall	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[b] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	4	7 ft downslope of location 3	Two depths[c]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	5	7 ft north of location 4	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	6	7 ft south of location 4	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine existence of thallium and uranium contamination and extent of potential contamination	7	1 ft downslope from previous sampling location 01-01095	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	8	15 ft north of location 7	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	9	1 ft downslope from previous sampling location 01-01096	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 4.7-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Drainage of Hillside 140																		
Determine existence of thallium and uranium contamination and extent of potential contamination	10	1 ft downslope from previous sampling location 01-01112	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	11	20 ft north of location 10	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine existence of thallium and uranium contamination and extent of potential contamination	12	1 ft downslope from previous sampling location 01-01110	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	13	25 ft west of location 11, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	14	40 ft downslope of location 13, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	15	55 ft downslope of location 14, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	16	40 ft downslope of location 15, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	17	65 ft downslope of location 16, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	18	60 ft downslope of location 17, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	19	55 ft downslope of location 18, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	20	55 ft downslope of location 19, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 4.7-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Determine extent of potential contamination	21	40 ft downslope of location 20, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Unless specified, zero depth is defined as below ground surface.

[a] Zero depth is defined as immediately beneath the excavated pipe.

[b] — = This sample analysis will not be requested.

[c] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.8-1
Summary of Proposed Sampling at SWMU 01-001(g)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Septic Tank (Tank 141)																		
Determine nature and vertical extent of potential contamination beneath the excavated septic tank	1	Center of the floor of the excavated septic tank	0–1[a] 4–5	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Outfall																		
Determine nature and vertical extent of potential contamination at the mouth of the outfall	2	At the outfall	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[b] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	3	7 ft downslope from location 2	Two depths[c]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	4	7 ft west of location 3	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	5	7 ft east of location 3	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Unless specified, zero depth is defined as below ground surface.

[a] Zero depth is defined as immediately beneath the excavated tank.

[b] — = This sample analysis will not be requested.

[c] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.9-1
Summary of Proposed Sampling at SWMU 01-001(o)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Septic System Pipelines																		
Determine nature and vertical extent of potential contamination beneath the turn of the pipeline	1	Beneath the excavated pipeline, at the bend in pipe	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Outfall																		
Determine nature and vertical extent of potential contamination at the mouth of the outfall	2	At the outfall	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[b] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	3	7 ft downslope from location 2	Two depths[c]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	4	7 ft north of location 3	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	5	7 ft south of location 3	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Confirming Previous Sampling Results																		
Confirm existence and vertical extent of plutonium contamination	6	1 ft downslope of previous sampling location 01-02080	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	7	10 ft downslope from location 6	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	8	10 ft north of location 7	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	9	10 ft south of location 7	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Unless specified, zero depth is defined as below ground surface.
[a] Zero depth is defined as immediately beneath the excavated pipe.
[b] — = This sample analysis will not be requested.
[c] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.10-1
Summary of Proposed Sampling at SWMU 01-001(s)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Waste Line																		
Determine nature and vertical extent of potential contamination beneath the pipeline	1	Beneath the excavated pipe, near the southwest corner of the western building of Trinity Village condominiums	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	2	Beneath the excavated pipe, between the western and central building of Trinity Village condominiums	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	3	Beneath the excavated pipe, at the east entrance of Trinity Village condominiums	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	4	Beneath the excavated pipe, at the parking area behind the Duratek building	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	5	Beneath the excavated pipe, at the parking area on the north side of Oppenheimer Center	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	6	Beneath the excavated pipe, southeast of the intersection of Oppenheimer Dr. and Short Dr.	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	7	Beneath the excavated pipe, northeast of the intersection of Trinity Dr. and Oppenheimer Dr.	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	8	Beneath the excavated pipe, east of Oppenheimer Dr.	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 4.10-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Determine nature and vertical extent of potential contamination beneath the pipeline	9	Beneath the excavated pipe, between Shell gas station and Holiday Inn	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	10	Beneath the excavated pipe, southwest corner of the parking lot of Chevron gas station	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	11	Beneath the excavated pipe, east parking lot of Chevron gas station	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	12	Beneath the excavated pipe, paved road	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	13	Beneath the excavated pipe, south parking lot of Los Alamos Inn Office	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

*Zero depth is defined as immediately beneath the excavated pipe.

Table 4.11-1
Summary of Proposed Sampling at SWMU 01-001(t), AOC 01-006(e), and AOC 01-007(k)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Waste Line of 01-001(t) and Drain Lines of 01-006(e)																		
Determine nature and vertical extent of potential contamination beneath the pipeline	1	Beneath the pipe, southwest of Ashley Pond, where the waste line and the drain line intersect	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	2	Beneath the pipe, south of Ashley Pond	0–1[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	3	Beneath the pipe, southeast of Ashley Pond, where the waste line and the drain line intersect	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	4	Beneath the pipe, southeast of Ashley Pond, at pipe bend	0–1[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	5	Beneath the pipe, south of location 3, where the waste line and the drain line intersect	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	6	Beneath the pipe, at the parking lot of Quality Inn	0–1[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	7	Beneath the pipe, at the parking lot of Quality Inn	0–1[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	8	Beneath the pipe, at the driveway between Quality Inn and Los Alamos Inn	0–1[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 4.11-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Determine nature and vertical extent of potential contamination beneath the pipeline	9	Beneath the pipe, at the parking lot between Quality Inn and LANL building 00-1315	0–1[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	10	Beneath the pipe, at the parking lot between Quality Inn and LANL building 00-1315	0–1[b] 2-3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

[a] Zero depth is defined as immediately beneath the lower pipe where the waste line and the drain line intersect.

[b] Zero depth is defined as immediately beneath the pipe or excavated pipe.

Table 4.12-1
Summary of Proposed Sampling at SWMU 01-001(u)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Waste Line																		
Determine nature and vertical extent of potential contamination beneath the pipeline	1	Beneath the excavated pipeline, at the parking lot of the Timber Ridge condominiums	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	2	Beneath the excavated pipeline, behind the condominium building in the wooded area	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

*Zero depth is defined as immediately beneath the excavated pipe.

Table 4.13-1
Summary of Proposed Sampling at SWMUs 01-002 and 01-007(c)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Industrial Waste Line																		
Determine nature and vertical extent of potential contamination beneath the pipeline	1	Beneath the excavated pipeline, near the east side of the condominium building	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	2	Beneath the excavated pipeline, at the parking area west of the Duratek building	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	3	Beneath the excavated pipeline, at the parking area north of the Duratek building	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	4	Beneath the excavated pipeline, west of Oppenheimer Dr., across from Shell gas station	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	5	Beneath the excavated pipeline, between condominiums and Shell, east of Oppenheimer Dr.	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	6	Beneath the excavated pipeline, at the entrance road to Ridge Park condominiums	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	7	Beneath the excavated pipeline, west of Oppenheimer Dr., east of a condominium	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	8	Beneath the excavated pipeline, east of Oppenheimer Dr., west of a Los Ventanas townhouse	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 4.13-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Determine nature and vertical extent of potential contamination beneath the pipeline	9	Beneath the excavated pipeline, at southwest corner of the parking lot of Shell gas station	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	10	Beneath the excavated pipeline, between Holiday Inn and a condominium	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	11	Beneath the excavated pipeline, behind the condominium building	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	12	Beneath the excavated pipeline, in front of the condominium building	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	13	Beneath the excavated pipeline, in Loma Vista Dr. near the entrance of Los Arboles Dr.	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	14	Beneath the excavated pipeline, in Loma Vista Dr.	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	15	Beneath the excavated pipeline, in asphalt road between the condominium building and Los Alamos Medical Center business office building	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	16	Beneath the excavated pipeline, in parking area of Los Alamos Inn	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 4.13-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Determine nature and vertical extent of potential contamination beneath the pipeline	17	Beneath the excavated pipeline, in asphalt road between the condominium building and Los Alamos Medical Center business office building	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the pipeline	18	Beneath the excavated pipeline, on hillside south of the Los Alamos Medical Center business office building	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

*Zero depth is defined as immediately beneath the excavated pipe.

Table 4.14-1
Summary of Proposed Sampling at SWMU 01-003(a)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Area of Landfill																		
Determine nature and extent of potential contamination of the landfill	1	30 ft southwest from the southwest corner of the current building	0–0.5 2–3	X X	X X	X X	X X	—[a] X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination of the landfill	2	50 ft southeast of location 1, 30 ft downslope from the current building	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination of the landfill	3	50 ft downslope of location 1	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination of the landfill	4	50 ft downslope of location 2	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Drainage																		
Determine nature and extent of potential contamination of the landfill	5	50 ft southeast downslope of location 3, start of the drainage	Two depths[b]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	6	50 ft downslope of location 5, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Confirm existence and vertical extent of radionuclides contamination	7	1 ft downslope from previous sampling location 01-02114	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	8	50 ft downslope of location 6, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Confirm existence and vertical extent of plutonium contamination	9	1 ft downslope from previous sampling location 01-02133	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	10	50 ft downslope of location 8, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	11	50 ft downslope of location 10, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 4.14-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Determine extent of potential contamination	12	50 ft downslope of location 11, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	13	50 ft downslope of location 12, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	14	50 ft downslope of location 13, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	15	1 ft downslope from previous sampling location 01-02171 (1623465.7, 1775068.2)	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	16	1 ft downslope from previous sampling location 01-02172 (1623457.7, 1775032.1)	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	17	50 ft downslope of location 16, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	18	50 ft downslope of location 17, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Zero depth is defined as below ground surface.

[a] — = This sample analysis will not be requested.

[b] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.17-1
Summary of Proposed Sampling at SWMU 01-003(d)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Area of Landfill																		
Determine nature and extent of potential contamination of the landfill	1	West portion of the landfill	0–0.5 2–3	X X	X X	X X	X X	—* X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination of the landfill	2	1 ft downslope from previous sampling location 01-06014	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination of the landfill	3	East portion of the landfill	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Nature and Extent of Contamination Determination																		
Determine extent of potential contamination	4	Downslope from location 1, 25 ft downslope from the landfill boundary	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	5	Downslope from location 2, 25 ft downslope from the landfill boundary	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	6	Downslope from location 3, 25 ft downslope from the landfill boundary	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Zero depth is defined as below ground surface.

*— = This sample analysis will not be requested.

Table 4.18-1
Summary of Proposed Sampling at SWMU 01-003(e)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Area of Landfill																		
Determine nature and extent of potential contamination of the landfill	1	35 ft downslope of canyon rim,	0–0.5 2–3	X X	X X	X X	X X	—* X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination of the landfill	2	40 ft downslope of canyon rim, 70 ft east of location 1	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination of the landfill	3	20 ft downslope of canyon rim, 70 ft east of location 2	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Nature and Extent of Contamination Determination																		
Determine extent of potential contamination	4	50 ft downslope of location 1	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	5	50 ft downslope of location 2	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	6	60 ft downslope of location 3	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Zero depth is defined as below ground surface.

*— = This sample analysis will not be requested.

Table 4.19-1
Summary of Proposed Sampling at SWMU 01-006(a)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Outfall																		
Determine nature and vertical extent of potential contamination at the mouth of the outfall	1	At the outfall	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[a] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	2	7 ft downslope from location 1	Two depths[b]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	3	7 ft west of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	4	7 ft east of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Drainage																		
Determine extent of potential contamination	5	1 ft downslope from previous sampling location 01-03088	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	6	1 ft downslope from previous sampling location 01-03093	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	7	60 ft downslope from location 6, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	8	1 ft downslope from previous sampling location 01-03083	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	9	30 ft downslope from location 8, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Zero depth is defined as below ground surface.

[a] — = This sample analysis will not be requested.

[b] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.24-1
Summary of Proposed Sampling at AOC 01-006(g)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Outfall																		
Determine nature and vertical extent of potential contamination at the mouth of the outfall	1	At the outfall	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[a] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	2	7 ft downslope from location 1	Two depths[b]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	3	7 ft west of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	4	7 ft east of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Zero depth is defined as below ground surface.

[a] — = This sample analysis will not be requested.

[b] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.27-1
Summary of Proposed Sampling at SWMU 01-006(o)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Outfall																		
Determine nature and vertical extent of potential contamination at the mouth of the outfall	1	At the outfall	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[a] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	2	7 ft downslope from location 1	Two depths[b]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	3	7 ft west of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	4	7 ft east of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Zero depth is defined as below ground surface.

[a] — = This sample analysis will not be requested.

[b] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.28-1
Summary of Proposed Sampling at SWMUs 01-007(a), 01-006(b), and 01-006(n)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Area of SWMU 01-007(a)																		
Determine existence and vertical extent of plutonium contamination	1	Proximity of 01-04024	5–6 8–9 11–12 14–15	X X X X	—[a] — — —	— — — —	— — — —	— — — —	— — — —	— — — —	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X
Determine existence and vertical extent of plutonium contamination	2	Proximity of 01-04025	5–6 8–9 11–12 14–15	X X X X	— — — —	— — — —	— — — —	— — — —	— — — —	— — — —	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X
Drain Line and Outfall of SWMU 01-006(b)																		
Determine nature and vertical extent of potential contamination beneath the excavated pipeline	3	Beneath the excavated pipeline, at the origin of the pipeline	0–1[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination at the mouth of the outfall	4	At the outfall	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	— X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	5	7 ft downslope from location 4	Two depths[c]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	6	7 ft west of location 5	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	7	7 ft east of location 5	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Outfall of SWMU 01-006(n)																		
Determine nature and vertical extent of potential contamination at the mouth of the outfall	8	At the outfall	0-0.5 1.5-2 4-5	X X X	X X X	X X X	X X X	— X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X

Table 4.28-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Determine extent of potential contamination	9	7 ft downslope from location 8	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	10	7 ft west of location 9	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	11	7 ft east of location 9	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Drainage																		
Determine extent of potential contamination	12	1 ft downslope from previous sampling location 01-03106	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination and inorganic contaminants	13	1 ft downslope from previous sampling location 01-03069	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	14	70 ft downslope from location 13, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	15	70 ft downslope from location 14, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	16	70 ft downslope from location 15, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	17	70 ft downslope from location 16, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	18	70 ft downslope from location 17, in the main drainage	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Unless specified, zero depth is defined as below ground surface.

[a] — = This sample analysis will not be requested.

[b] Zero depth is defined as immediately beneath the excavated pipe.

[c] One depth interval is in the sediment unit(s) and the other is below the sediment/tuff interface.

Table 4.31-1
Summary of Proposed Sampling at SWMU 01-007(d)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Borehole Samples												
Determine nature and vertical extent of potential contamination	1	At the community area southeast of the condominiums	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination	2	In Short Dr., in front of the condominium	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination	3	In Short Dr., in front of the condominium	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X

*Zero depth is defined as undisturbed tuff.

Table 4.32-1
Summary of Proposed Sampling at SWMU 01-007(e)

Objective Addressed	Location Number	Location	Sample Depths (ft)	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Borehole Samples											
Determine nature and vertical extent of potential contamination	1	In landscaped area west of the intersection of Oppenheimer Dr. and Loma Vista Dr.	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination	2	In paved area west of the north end of the building that is west of the intersection of Oppenheimer Dr. and Loma Vista Dr.	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X

*Zero depth is defined as undisturbed tuff.

Table 4.33-1
Summary of Proposed Sampling at SWMU 01-007(j)

Objective Addressed	Location Number	Location	Sample Depths (ft)	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Borehole Samples											
Determine nature and vertical extent of potential contamination	1	In parking lot area west of the intersection of Oppenheimer Dr. and Short Dr.	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X

*Zero depth is defined at the soil/tuff interface.

Table 5.3-1
Summary of Proposed Sampling at SWMU 03-009(j)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Nature and Extent of Contamination Determination																		
Determine lateral and vertical extent of potential contamination of the fill material	1	South region of the fill area	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine lateral and vertical extent of potential contamination of the fill material	2	North region of the fill area	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

*Zero depth is defined as the interface of fill material and original tuff.

Table 5.4-1
Summary of Proposed Sampling at SWMUs 03-038(a,b)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Borehole Samples																		
Determine nature and extent of potential contamination surrounding former structure 03-700	1	15 ft west of former structure 03-700	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—* X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and extent of potential contamination surrounding former structure 03-700	2	15 ft south of former structure 03-700	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	— X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and extent of potential contamination surrounding former structure 03-700	3	15 ft east of former structure 03-700	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	— X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and vertical extent of potential contamination beneath excavation of former structure 03-700	4	Center of the excavation of former structure 03-700	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	— X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and extent of potential contamination at the connection of former structures 03-700 and 03-738	5	Between former structures 03-700 and 03-738	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	— X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and extent of potential contamination at the connection of former structure 03-738 to industrial waste line	6	North end of the excavation of former structure 03-738	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	— X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X

Note: Zero depth is defined as below ground surface.

*— = This sample analysis will not be requested.

Table 5.5-1
Summary of Proposed Sampling at SWMU 03-055(c)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Explosive Compounds	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Outfall																			
Determine nature and vertical extent of potential contamination at the mouth of the outfall	1	At the mouth of the outfall pipe	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[a] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine extent of potential contamination	2	7 ft downslope from location 1	Two depths[b]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	3	7 ft west of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine extent of potential contamination	4	7 ft east of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Zero depth is defined as below ground surface.

[a] — = This sample analysis will not be requested.

[b] One depth interval is in the sediment unit(s) and the other below is the sediment/tuff interface.

Table 6.1-1
Summary of Analytical Suites for Samples Previously Collected in TA-32

AOC/ SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Americium-241	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	SVOCs	VOCs
32-001	0132-96-0209	32-06446	0.17–0.83	Fill	3/21/1996	◊[a]	◊	◊	◊	◊	✓[b]	✓	✓
	0132-96-0210	32-06447	0.17–0.92	Soil	3/22/1996	◊	◊	◊	◊	◊	✓	✓	✓
32-002(a)	0132-96-0610	32-06367	4–4.17	Tuff	4/24/1996	◊	✓	✓	✓	✓	✓	✓	✓
	0132-96-0601	32-06368	4.5–4.67	Tuff	4/24/1996	◊	✓	✓	✓	✓	✓	✓	✓
	0132-96-0602	32-06369	4.5–4.67	Tuff	4/24/1996	◊	✓	✓	✓	✓	✓	✓	✓
	0132-96-0604	32-06370	0–0.25	Tuff	4/25/1996	◊	✓	✓	✓	✓	✓	✓	✓
	0132-96-0606	32-06371	0–0.25	Tuff	4/25/1996	◊	✓	✓	✓	✓	✓	✓	✓
	0132-96-0607	32-06372	3–3.25	Tuff	4/26/1996	◊	✓	✓	✓	✓	✓	✓	✓
	0132-96-0631	32-06373	0–0.5	Soil	4/26/1996	◊	◊	◊	◊	◊	✓	◊	◊
	0132-96-0608	32-06374	0–0.25	Soil	4/26/1996	◊	✓	✓	✓	✓	✓	✓	✓
	0132-96-0609	32-06375	0–0.5	Soil	4/30/1996	◊	◊	✓	✓	◊	✓	✓	✓
	0132-96-0616	32-06380	0–0.5	Soil	5/2/1996	◊	◊	✓	✓	◊	✓	✓	✓
32-002(b)	0132-96-0325	32-06312	0–0.5	Soil	3/28/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0326	32-06312	0.5–1	Tuff	3/28/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0323	32-06313	0–0.5	Soil	3/28/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0324	32-06313	1.25–1.83	Tuff	3/28/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0755	32-06314	0–0.5	Tuff	5/6/1996	◊	✓	◊	✓	◊	✓	◊	◊
	0132-96-0327	32-06315	0–0.5	Soil	3/28/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0322	32-06323	0–0.5	Soil	3/28/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0321	32-06325	0–0.5	Soil	3/28/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0802	32-06342	1.5–2	Soil	5/6/1996	◊	◊	◊	✓	◊	✓	✓	◊

Table 6.1-1 (continued)

AOC/ SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Americium-241	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	SVOCs	VOCs
32-002(b) (continued)	0132-96-0801	32-06344	1.5–2	Soil	5/6/1996	◊	◊	◊	✓	◊	✓	✓	◊
	0132-96-0751	32-06353	0–0.5	Tuff	5/6/1996	◊	✓	◊	✓	◊	✓	◊	◊
	0132-96-0752	32-06357	0–0.5	Soil	5/6/1996	◊	✓	◊	✓	◊	✓	◊	◊
	0132-96-0753	32-06358	0–0.5	Tuff	5/6/1996	◊	✓	◊	✓	◊	✓	◊	◊
	0132-96-0611	32-06365	5–5.25	Tuff	4/22/1996	◊	✓	✓	✓	✓	✓	✓	✓
	0132-96-0612	32-06366	4–4.25	Tuff	4/23/1996	◊	✓	✓	✓	✓	✓	✓	✓
	0132-96-0614	32-06377	0–0.5	Tuff	5/1/1996	◊	✓	✓	✓	✓	✓	✓	✓
32-004	0132-96-0354	32-06326	0–0.5	Soil	4/1/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0355	32-06326	0.5–1	Tuff	4/1/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0356	32-06331	0–0.42	Soil	4/1/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0357	32-06336	0–0.5	Soil	4/1/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0352	32-06338	0–0.5	Soil	4/1/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0353	32-06338	0.5–1	Soil	4/1/1996	✓	◊	✓	✓	✓	✓	✓	◊
	0132-96-0351	32-06340	0–0.5	Soil	4/1/1996	◊	◊	◊	◊	◊	✓	✓	◊
	0132-96-0621	32-06363	0–0.5	Soil	4/19/1996	◊	✓	✓	✓	✓	✓	✓	✓
	0132-96-0622	32-06364	0–0.5	Soil	4/19/1996	◊	✓	✓	✓	✓	✓	✓	✓

[a] ◊ = Analysis was not requested for the sample.

[b] ✓= Analysis was requested for the sample.

Table 6.2-1
Summary of Proposed Sampling at SWMU 32-001

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Dioxins	Furans	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Incinerator																				
Determine nature and extent of potential contamination	1	6 ft north of incinerator location	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	2	6 ft east of incinerator location	0–1 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	3	6 ft south of incinerator location	0–1 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	4	6 ft west of incinerator location	0–1 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

*Zero depth is 0.5 ft beneath the pavement.

Table 6.3-1
Summary of Proposed Sampling at SWMU 32-002(a)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Dioxins	Furans	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Drain Line																				
Determine nature and extent of potential contamination	1	Immediately adjacent to location 32-06375	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	2	Immediately adjacent to location 32-06368	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	3	Immediately adjacent to location 32-06369	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	4	Immediately adjacent to location 32-06371	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Septic Tank																				
Determine nature and extent of potential contamination	5	Center of the septic tank excavation	1.5–2.5 3.5–4.5	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	6	Immediately north of the excavation perimeter	0–0.5 2–3	X X	X X	X X	X X	—[b] X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	7	Immediately east of the excavation perimeter	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	8	Immediately south of the excavation perimeter	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	9	Immediately west of the excavation perimeter	0–0.5 2–3	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Note: Zero depth is defined as below ground surface.

[a] Zero depth is defined as immediately beneath the excavated pipe.

[b] — = This sample analysis will not be requested.

Table 6.4-1
Summary of Proposed Sampling at SWMU 32-002(b)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Dioxins	Furans	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Drain Line																				
Determine nature and extent of potential contamination	1	Immediately adjacent to location 32-06365	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	2	Immediately adjacent to location 32-06366	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	3	Immediately adjacent to location 32-06377	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	4	50 ft downgradient of location 3 in the drain line path	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	5	Outfall end of the drain line	0–1* 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Septic Tank																				
Determine nature and extent of potential contamination	6	Center of the septic tank excavation	Soil/fill interface 2 ft deeper	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	7	Immediately north of the excavation perimeter	Soil/tuff interface 1 ft deeper	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	8	Immediately east of the excavation perimeter	Soil/tuff interface 1 ft deeper	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	9	Immediately south of the excavation perimeter	Soil/tuff interface 1 ft deeper	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	10	Immediately west of the excavation perimeter	Soil/tuff interface 1 ft deeper	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

*Zero depth is defined as immediately beneath the excavated pipe.

Table 6.5-1
Summary of Proposed Sampling at AOC 32-003

Objective Addressed	Location Number	Location	Sample Depths (ft)	PCBs	pH	SVOCs
Determine extent of PCB contamination	1	Approximately 5 ft north of the excavation	0–0.5 2–3	X X	X X	X X
Determine extent of PCB contamination	2	Approximately 5 ft east of the excavation	0–0.5 2–3	X X	X X	X X
Determine extent of PCB contamination	3	Approximately 5 ft south of the excavation	0–0.5 2–3	X X	X X	X X
Determine extent of PCB contamination	4	Approximately 5 ft west of the excavation	0–0.5 2–3	X X	X X	X X
Determine extent of PCB contamination	5	5 ft upslope of previous screening location 32-06458	0–0.5 2–3	X X	X X	X X
Determine extent of PCB contamination	6	Adjacent to previous screening location 32-06458	Soil/fill interface 1 ft deeper	X X	X X	X X
Determine extent of PCB contamination	7	Adjacent to previous screening location 32-06461	Soil/fill interface 1 ft deeper	X X	X X	X X
Determine extent of PCB contamination	8	Adjacent to previous screening location 32-06477	Soil/fill interface 1 ft deeper	X X	X X	X X
Determine extent of PCB contamination	9	Adjacent to previous screening location 32-06466	Soil/fill interface 1 ft deeper	X X	X X	X X
Determine extent of PCB contamination	10	Adjacent to previous screening location 32-06469	Soil/fill interface 1 ft deeper	X X	X X	X X
Determine extent of PCB contamination	11	Adjacent to previous screening location 32-06486	Soil/fill interface 1 ft deeper	X X	X X	X X
Determine extent of PCB contamination	12	Equidistant between previous screening locations 32-06488, 32-06490, and 32-06491	Soil/fill interface 1 ft deeper	X X	X X	X X

Note: Zero depth is defined as below ground surface.

Table 6.6-1
Summary of Proposed Sampling at AOC 32-004

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Radiation Source Vault Room																		
Determine nature and extent of potential contamination	1	In the center of previous screening level samples 32-06307, -06308, -06309, -06310	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—* X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X

Note: Zero depth is defined as immediately below excavation.

*— = This sample analysis will not be requested.

Table 7.1-1
Summary of Analytical Suites for Samples Previously Collected in TA-41

AOC/SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	SVOCs	VOCs
41-001	0441-95-0003	41-01007	0.0–1.0	Tuff	5/3/1995	◊[a]	✓[b]	✓	✓	◊	✓	✓
	0441-95-0004	41-01007	4.0–5.0	Tuff	5/3/1995	◊	✓	✓	✓	◊	✓	✓
	0441-95-0009	41-01008	0.0–1.0	Tuff	5/3/1995	◊	✓	✓	✓	◊	✓	✓
	0441-95-0010	41-01008	4.0–5.0	Tuff	5/3/1995	◊	✓	✓	✓	◊	✓	✓
	0441-95-0011	41-01008	9.0–10.0	Tuff	5/3/1995	◊	✓	✓	✓	◊	✓	✓
41-002(a)	AAC2706	41-01009	0.0–1.0	Soil	3/7/1995	✓	✓	✓	✓	U[c]	✓	◊
	AAC2712	41-01009	4.0–5.0	Soil	3/7/1995	✓	✓	✓	✓	U	✓	◊
	AAC2719	41-01009	9.0–10.0	Soil	3/7/1995	✓	✓	✓	✓	U	✓	◊
	AAC2713	41-01010	0.0–1.0	Soil	3/7/1995	✓	✓	✓	✓	U	✓	◊
	AAC2716	41-01010	4.0–5.0	Soil	3/7/1995	✓	✓	✓	✓	U	◊	◊
	AAC2703	41-01011	0.0–1.0	Soil	3/7/1995	✓	✓	✓	✓	U	✓	◊
	AAC2727	41-01012	0.0–1.0	Soil	3/8/1995	✓	✓	✓	✓	U	◊	◊
	AAC2721	41-01012	4.0–5.0	Soil	3/8/1995	✓	✓	✓	✓	U	◊	◊
	AAC2723	41-01012	6.0–7.0	Soil	3/8/1995	✓	✓	✓	✓	U	◊	◊
	AAC2726	41-01025	0.0–1.0	Soil	2/28/1995	✓	✓	✓	✓	U	✓	◊
	AAC2720	41-01026	0.0–1.0	Soil	2/28/1995	✓	✓	✓	✓	U	✓	◊
41-002(b)	AAC2709	41-01019	0.0–1.0	Soil	2/27/1995	✓	✓	✓	✓	U	✓	◊
	AAC2715	41-01020	0.0–1.0	Soil	2/28/1995	✓	✓	✓	✓	U	✓	◊
	AAC2714	41-01021	0.0–1.0	Soil	2/28/1995	✓	✓	✓	✓	U	✓	◊
	AAC2708	41-01022	0.0–1.0	Soil	2/28/1995	✓	✓	✓	✓	U	✓	◊
	AAC2705	41-01023	0.0–1.0	Soil	2/28/1995	✓	✓	✓	✓	U	✓	◊
	AAC2704	41-01024	0.0–1.0	Soil	2/28/1995	✓	✓	✓	✓	U	✓	◊

Table 7.1-1 (continued)

AOC/SWMU	Sample ID	Location ID	Depth (ft)	Media	Collection Date	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Uranium	Metals	SVOCs	VOCs
41-002(c)	AAC2700	41-01013	0.0–1.0	Soil	2/28/1995	✓	✓	✓	✓	U	✓	◊
	AAC2702	41-01013	2.0.0–3	Soil	2/28/1995	✓	✓	✓	✓	U	✓	◊
	AAC2718	41-01014	0.0–1.0	Soil	2/27/1995	✓	✓	✓	✓	U	✓	◊
	AAC2710	41-01015	0.0–1.0	Soil	2/27/1995	✓	✓	✓	✓	U	✓	◊
	AAC2717	41-01016	0.0–1.0	Soil	2/27/1995	✓	✓	✓	✓	U	✓	◊
	AAC2707	41-01017	0.0–1.0	Soil	2/27/1995	✓	✓	✓	✓	U	✓	◊
	AAC2711	41-01018	0.0–1.0	Soil	2/27/1995	✓	✓	✓	✓	U	✓	◊
41-003	AAC2687	41-01027	7.0–8.0	Soil	2/17/1995	◊	✓	✓	◊	U	◊	◊
	AAC2690	41-01028	8.5–9.5	Soil	2/17/1995	◊	✓	✓	◊	U	◊	◊
	AAC2686	41-01029	0.0–1.0	Soil	2/17/1995	◊	✓	✓	◊	U	◊	◊
	AAC2688	41-01030	0.0–1.0	Soil	2/17/1995	◊	✓	✓	◊	U	◊	◊
	AAC2689	41-01031	0.0–1.0	Soil	2/17/1995	◊	✓	✓	◊	U	◊	◊
	AAC2694	41-01032	0.0–1.0	Soil	2/17/1995	◊	✓	✓	◊	U	◊	◊
	AAC2695	41-01033	0.0–1.0	Soil	2/17/1995	◊	✓	✓	◊	U	◊	◊
C-41-004	AAC2729	41-01034	0.0–1.0	Sediment	2/27/1995	◊	✓	✓	◊	U	◊	◊

[a] ◊ = Analysis was not requested for the sample.

[b] ✓= Analysis was requested for the sample.

[c] U = Only uranium was analyzed.

Table 7.2-1
Summary of Proposed Sampling at SWMU 41-001

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Sewer Line																		
Determine nature and vertical extent of potential contamination beneath excavated pipeline	1	Beneath the excavated pipeline, at the turn of the pipeline	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath excavated pipeline	2	Beneath the excavated pipeline, 40 ft from location 1	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Septic Tank																		
Determine nature and vertical extent of potential contamination beneath the inlet of septic tank	3	Beneath the inlet of septic tank	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath septic tank	4	Center of the floor of the excavated septic tank	0–1[a] 4–5	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and vertical extent of potential contamination beneath the outlet of septic tank	5	Beneath the outlet of septic tank	0–1[a] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Outfall																		
Determine nature and vertical extent of potential contamination at the mouth of the outfall	6	At the mouth of the outfall pipe	0–0.5[a] 1.5–2 4–5	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and extent of potential contamination	7	7 ft downslope from location 6	0–0.5[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	8	7 ft west of location 7	0–0.5[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

Table 7.2-1 (continued)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Determine nature and extent of potential contamination	9	7 ft east of location 7	0–0.5[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	10	20 ft downslope from location 7	0–0.5[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	11	15 ft west of location 10	0–0.5[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	12	15 ft east of location 10	0–0.5[b] 2–3	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

[a] Zero depth is defined as immediately beneath the excavated tank or pipe.

[b] Zero depth is defined as immediately beneath the fill.

Table 8.4-1
Summary of Proposed Sampling at AOC 43-001(b2)

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Dioxins	Furans	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Outfall																				
Determine nature and vertical extent of potential contamination at the mouth of the outfall	1	Mouth of the outfall pipe	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[a] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and extent of potential contamination	2	7 ft downslope of the mouth of the outfall pipe	Two depths[b]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	3	7 ft west of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	4	7 ft east of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

[a] — = This sample analysis will not be requested.

[b] One depth interval is in the sediment unit(s) and the other below the sediment/tuff interface.

Table 8.6-1
Summary of Proposed Sampling at AOC C-43-001

Objective Addressed	Location Number	Location	Sample Depths (ft)	TAL Metals	Cyanide	Nitrates	Perchlorate	VOCs	SVOCs	PCBs	Dioxins	Furans	Gamma Spectroscopy	Americium-241	Isotopic Plutonium	Isotopic Uranium	Strontium-90	Tritium	Moisture	pH
Outfall																				
Determine nature and vertical extent of potential contamination at the mouth of the outfall	1	Mouth of the outfall pipe	0–0.5 1.5–2 4–5	X X X	X X X	X X X	X X X	—[a] X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X	X X X
Determine nature and extent of potential contamination	2	7 ft downslope of the mouth of the outfall pipe	Two depths[b]	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	3	7 ft west of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
Determine nature and extent of potential contamination	4	7 ft east of location 2	Two depths	X X	X X	X X	X X	— X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X

[a] — = This sample analysis will not be requested.

[b] One depth interval is in the sediment unit(s) and the other below the sediment/tuff interface.

Table 9.2-1
Summary of Proposed Sampling at SWMU 61-007

Objective Addressed	Location Number	Location	Sample Depths (ft)	VOCs	SVOCs	PCBs	pH
Determine nature and extent of potential subsurface contamination	1	Center of excavation	0–1[a] 4–5 9–10	X X X	X X X	X X X	X X X
Determine nature and extent of potential subsurface contamination	2	5 ft north of the excavation	0–1[b] 4–5 9–10 14–15 19–20 24–25	X X X X X X	X X X X X X	X X X X X X	X X X X X X
Determine nature and extent of potential subsurface contamination	3	5 ft east of the excavation	0–1[b] 4–5 9–10 14–15 19–20 24–25	X X X X X X	X X X X X X	X X X X X X	X X X X X X
Determine nature and extent of potential subsurface contamination	4	5 ft south of the excavation	0–1[b] 4–5 9–10 14–15 19–20 24–25	X X X X X X	X X X X X X	X X X X X X	X X X X X X
Determine nature and extent of potential subsurface contamination	5	5 ft west of the excavation	0–1[b] 4–5 9–10 14–15 19–20 24–25	X X X X X X	X X X X X X	X X X X X X	X X X X X X

[a] Zero depth is defined as immediately below the plastic demarcating the previous excavation.

[b] Zero depth is defined as 0.5 ft bgs.

Table 10.0-1
Summary of Investigation Methods

Method	Summary
Spade and Scoop Collection of Soil Samples	This method is typically used to collect shallow (i.e., approximately 0–12 in.) soil or sediment samples. The "spade-and-scoop" method involves digging a hole to the desired depth, as prescribed in the sampling and analysis plan, and collecting a discrete grab sample. The sample is typically placed in a clean, stainless-steel bowl for transfer into various sample containers.
Hand Auger Sampling	This method is typically used for sampling soil or sediment at depths of less than 10–15 ft but may in some cases be used for collecting samples of weathered or nonwelded tuff. The method involves hand-turning a stainless-steel bucket auger (typically 3–4 in. inner diameter [i.d.]), creating a vertical hole which can be advanced to the desired sample depth. When the desired depth is reached, the auger is decontaminated before advancing the hole through the sample depth. The sample material is transferred from the auger bucket to a stainless-steel sampling bowl before filling the various required sample containers.
Split-Spoon Core-Barrel Sampling	In this method, a stainless-steel core barrel (typically 4-in. i.d., 2.5 ft long) is advanced using a powered drilling rig. The core barrel extracts a continuous length of soil and/or rock that can be examined as a unit. The split-spoon core barrel is a cylindrical barrel split lengthwise so that the two halves can be separated to expose the core sample. Once extracted, the section of core is typically screened for radioactivity and organic vapors, photographed, and described in a geologic log. A portion of the core may then be collected as a discrete sample from the desired depth.
Headspace Vapor Screening	Individual soil, rock, or sediment samples may be field-screened for VOCs by placing a portion of the sample in a plastic sample bag or in a glass container with a foil-sealed cover. The container is sealed and gently shaken and allowed to equilibrate for 5 minutes. The sample is then screened by inserting a PID probe into the container and measuring and recording any detected vapors. PIDs must use lamps with voltage of 10.6 eV or higher.
Handling, Packaging, and Shipping of Samples	Field team members seal and label samples before packing and ensure that the sample containers and the containers used for transport are free of external contamination. Field team members package all samples so as to minimize the possibility of breakage during transportation. After all environmental samples are collected, packaged, and preserved, a field team member transports the samples to either the SMO or an SMO-approved radiation screening laboratory under chain of custody. The SMO arranges for shipping of samples to analytical laboratories. The field team member must inform the SMO and/or the radiation screening laboratory coordinator when levels of radioactivity are in the action-level or limited-quantity ranges.
Sample Control and Field Documentation	The collection, screening, and transport of samples are documented on standard forms generated by the SMO. These include sample collection logs, chain-of-custody forms, and sample container labels. Collection logs are completed at the time of sample collection and are signed by the sampler and a reviewer who verifies the logs for completeness and accuracy. Corresponding labels are initialed and applied to each sample container, and custody seals are placed around container lids or openings. Chain-of-custody forms are completed and assigned to verify that the samples are not left unattended. Site attributes (e.g., former and proposed soil sample locations, sediment sample locations) are located by using a global positioning system. Horizontal locations will be measured to the nearest 0.5 ft. The survey results for this field event will be presented as part of the investigation report. Sample coordinates will be uploaded into the Environmental Restoration Database.

Table 10.0-1 (continued)

Method	Summary
Field Quality Control Samples	Field quality control samples are collected as directed in the Order on Consent as follows: *Field Duplicate*: At a frequency 10%; collected at the same time as a regular sample and submitted for the same analyses. *Equipment Rinsate Blank*: At a frequency of 10%; collected by rinsing sampling equipment with deionized water, which is collected in a sample container and submitted for laboratory analysis. *Trip Blanks*: Required for all field events that include the collection of samples for VOC analysis. Trip blanks containers of certified clean sand that are opened and kept with the other sample containers during the sampling process.
Field Decontamination of Drilling and Sampling Equipment	Dry decontamination is the preferred method to minimize generating liquid waste. Dry decontamination may include the use of a wire brush or other tool to remove soil or other material adhering to the sampling equipment, followed by use of a commercial cleaning agent (nonacid, waxless cleaners) and paper wipes. Dry decontamination may be followed by wet decontamination if necessary. Wet decontamination may include washing with a nonphosphate detergent and water, followed by a water rinse and a second rinse with deionized water. Alternatively, steam cleaning may be used.
Containers and Preservation of Samples	Specific requirements/processes for sample containers, preservation techniques, and holding times are based on EPA guidance for environmental sampling, preservation, and quality assurance. Specific requirements for each sample are printed on the sample collection logs provided by the SMO (size and type of container (glass, amber glass, polyethylene, preservative, etc.). All samples are preserved by placing in insulated containers with ice to maintain a temperature of 4 ˚C. Other requirements such as nitric acid or other preservatives may apply to different media or analytical requests.
Management, Characterization, and Storage of Investigation-Derived Waste	Investigation-derived waste (IDW) is managed, characterized, and stored in accordance with an approved waste characterization strategy form (WCSF) that documents site history, field activities, and the characterization approach for each waste stream managed. Waste characterization shall be adequate to comply with on-site or off-site waste acceptance criteria. All stored IDW will be marked with appropriate signage and labels, as appropriate. Drummed IDW will be stored on pallets to prevent the containers from deterioration. Generators are required to reduce the volume of waste generated as much as technically and economically feasible. Means to store, control, and transport each potential waste type and classification shall be determined before field operations that generate waste begin. A waste storage area shall be established before generating waste. Waste storage areas located in controlled areas of the laboratory shall be controlled as needed to prevent inadvertent addition or management of wastes by unauthorized personnel. Each container of waste generated shall be individually labeled as to waste classification, item identification number, and radioactivity (if applicable), immediately following containerization. All waste shall be segregated by classification and compatibility to prevent cross-contamination. See Appendix B for additional information.

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