General

Environmental Restoration Project

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FY'96 CLEANUP SITES

Monday, November 20, 1995

DOE/NMED

Jorg Jansen

12683

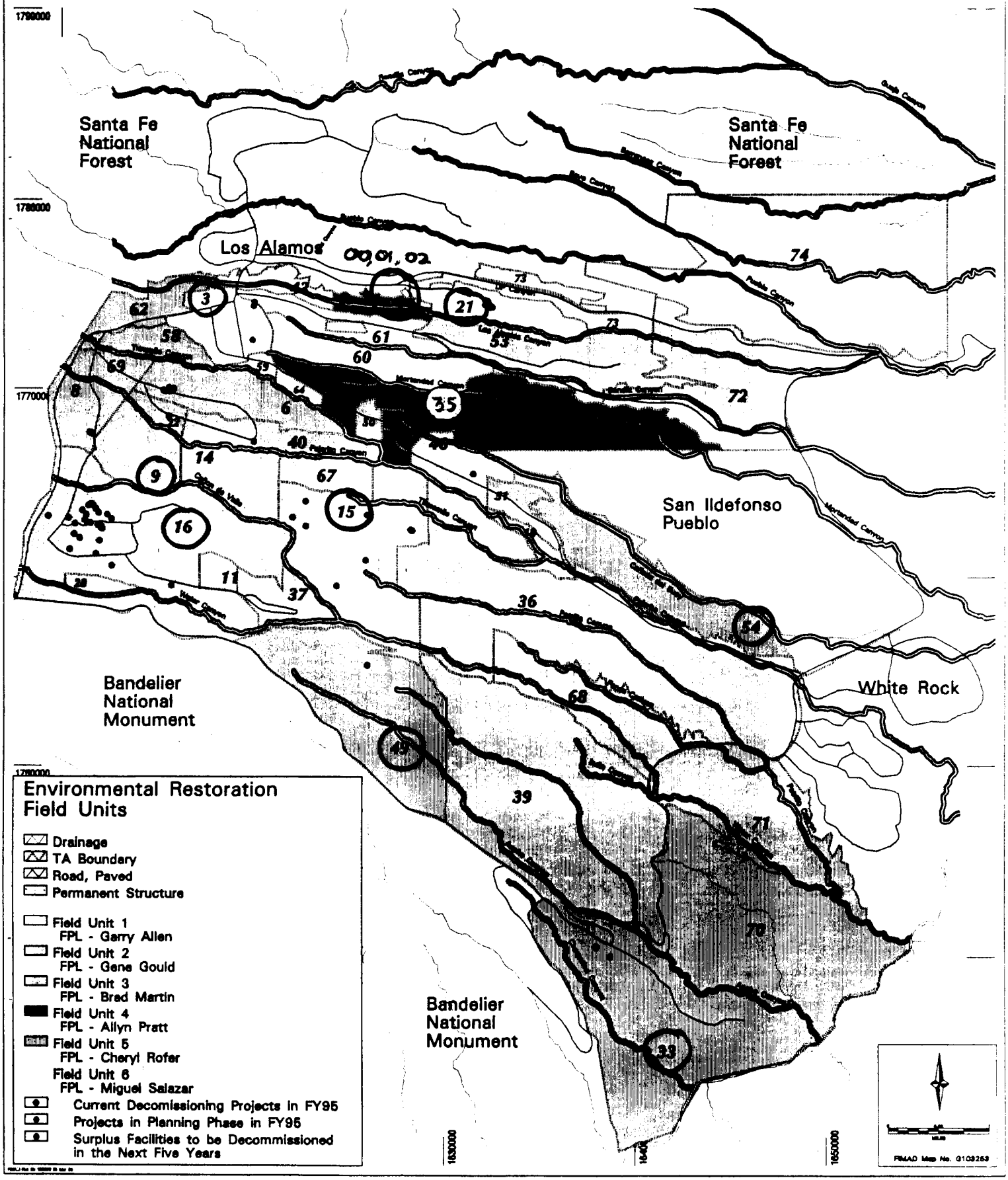
EC/VCA Site Tour

November 20, 1995

			Field Unit
8:00 a.m.	Briefing	Pueblo Conference Room	
8:30	01-001(d)	Hillside 138 (Outfall)	1
9:00	00-030	6th Street Warehouses (Septic System)	1
9:30	TA-21	Filter Buildings (D&D)	6
10:15	02-004(g)	Omega West Fuel Tank	4
10:45	03-056(c)	Transformer Storage Area	1
11:15	35-003(n)	Phase Separator Pit	4
11:45	54-006,-007	MDA L, Disposal Pits, Septic System	5
12:30 p.m.	Lunch	White Rock (O'Henry's)	
1:30 p.m.	33-010, -011	Canyon-side Debris	3
2:30	49-001(b)	MDA B (Hydronuclear Test Shafts)	5
3:15	16-018	MDA P (Surface Disposal)	Closure
3:45	15-004(g), -008(c)	Firing Site, Disposal Area	2
4:15	09-013	MDA M (Surface Disposal)	5

Barbara Hoditschek	NMED	US
Stu Dinwiddie	NMED	US
Ed Kelley	NMED	US
Benito Garcia	NMED	US
Jessica Schar	NMED	US
Herman Le-Doux	DOE/LAAO	Q
Richard Sena	DOE/ABQ	Q
John Arthur	DOE/ABQ	Q
Deborah Griswold	DOE/ABQ	Q
Ted Taylor	DOE/LAAO	Q
Robert Ratzer	DOE/ABQ	Q
William Spurgeon	DOE/HQ	Q
Joe Vozella	DOE/LAAO	Q

LOS ALAMOS NATIONAL LABORATORY



FY'96 CLEANUP SITES

November 20, 1995

DOE/NMED

Jorg Jansen

FY96 Plans Have Settled Down

- ER Project will work only on high priority sites
- FY96 plan results in best balance of
  - near term successes
    - ▲ accelerated cleanups (EC/VCAs, closures, D&D)
    - ▲ interim actions
  - work which ensures our future
    - ▲ RFI field work
    - ▲ RFI reports
    - ▲ pilot studies
- Remediation/assessment ratio will be at least 60/40
- Budget scenarios range from $79M to $52M

Modified Site Ranking

- Based on existing SRS
- Adjusted to reflect new data
- Other ranking modifiers
  - townsite
  - potential for land transfer
  - sites on non DOE property
  - environmental justice
  - laboratory mission
    - ▲ supporting construction or D&D
  - avoiding regulatory fines
  - interim actions

Modified Site Ranking (continued)

- Aggregates ranked as average of PRSs
- Well advanced work in progress not interrupted

High Priority Budget Scenarios ($M)

Field Unit	Maximum High Priority Work Possible	FY96 Base-line High Priority Work	10% Reduction	17% Reduction
1	19.5	12.8	11.6	10.7
2	6.5	6.5	5.9	5.4
3	5.7	4.7	4.2	3.9
4	8.2	7.4	6.7	6.2
5	8.2	6.2	5.5	5.1
6	10.8	5.8	5.2	4.8
	58.9	43.4	39.1	36.1
Other*	20.7	16.9	16.9	15.8
Total	79.6	60.3	56.0	51.9

*Management, technical support, closures, MWD.

FY96 Cleanup Campaign

Budget Scenarios	$60M	$52M
Considered sites	90	60
Expected attrition*	33%	20%
Committed sites	60	48

*FY95 attrition 45 to 50%.

Site Type Summary

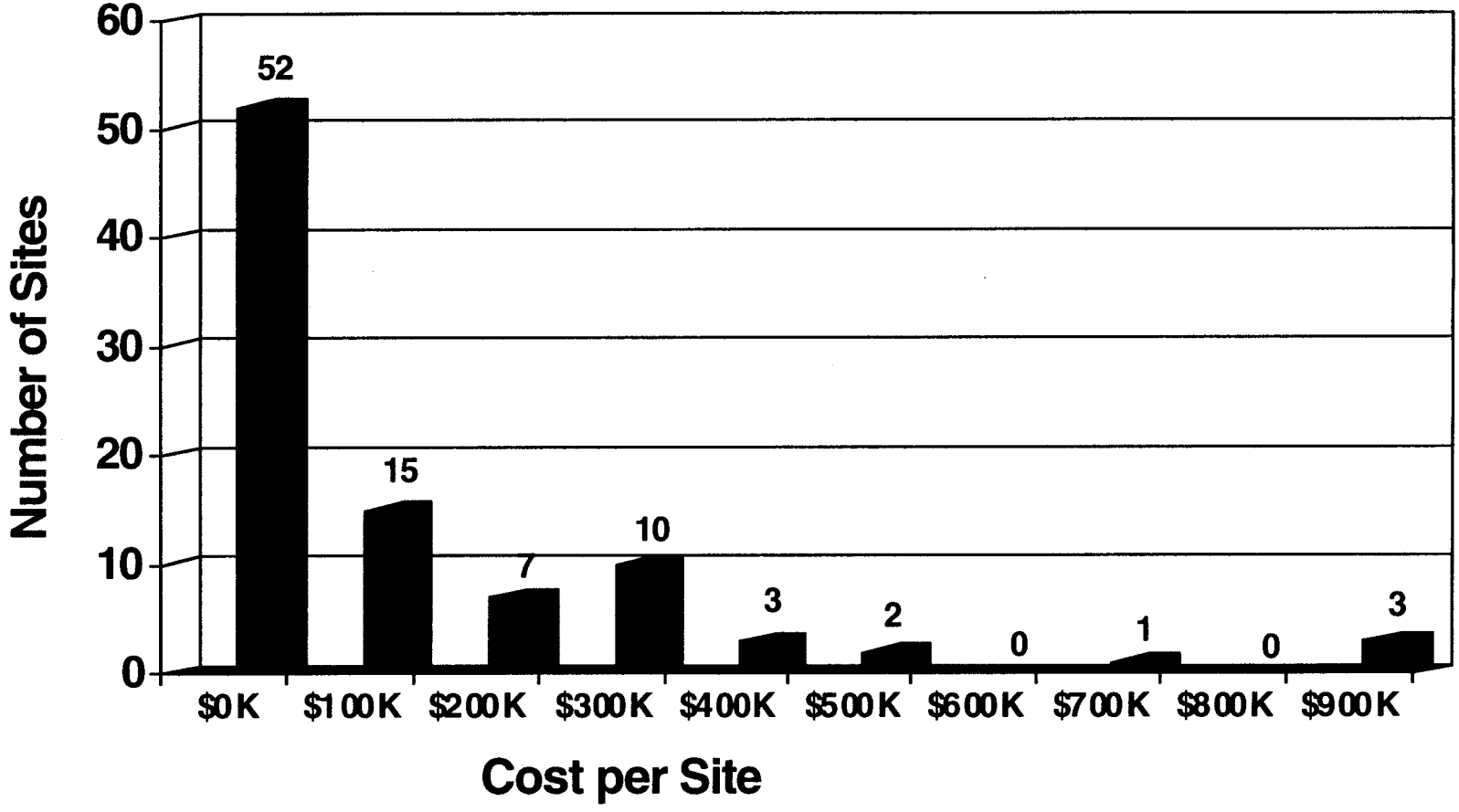
Septic Systems	30
Outfalls	12
USTs	7
Surface Contaminants	4
Firing Sites	9
Surface Disposal	8
MDAs	5
D&D	9
Other	18
Total	102

Accelerated Cleanup Type Summary

Voluntary Corrective Action	30
Expedited Cleanup*	48
Interim Action	15
D&D	9
Total sites	102

* Some will be HSWA VCAs.

Distribution of Cleanup Costs



Environmental Restoration Project

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

ACCELERATED CLEANUPS FY'96

	PRS #	HSWA	SRS Rank	Modifying Factors	Priority	Description	Action	Potential Waste Type	Estimated Waste Volume yd^3	Estimated Cost ($K)	Estimated Start Date
1	0-016	Yes	44	Townsite	High	Lead contaminated soil	VCA	Sanitary	50	258	12/01/95
2	0-030(a)	Yes	38	Townsite	High	Septic system	VCA	Sanitary	50	234	01/01/96
3	0-030(b)	Yes	47	Townsite	High	Septic system	VCA	LLW	414	356	In Progress
4	0-030(d)	No	38	Townsite	High	Septic system	VCA	Sanitary	50	373	01/01/96
5	0-030(h)	No	44	Townsite	High	Septic system	VCA	Sanitary	50	338	01/01/96
6	0-030(i)	No	43	Townsite	High	Septic system	VCA	Sanitary	50	345	03/01/96
7	0-030(j)	No	38	Townsite	High	Septic system	VCA	Sanitary	50	348	02/01/96
8	0-030(k)	No	39	Townsite	High	Septic system	VCA	LLW	651	740	04/01/96
9	0-030(l)	Yes	39	Townsite	High	Septic system	VCA	Sanitary	10	228	In Progress
10	0-030(m)	Yes	39	Townsite	High	Septic system	VCA	LLW	60	319	In Progress
11	0-030(n)	No	40	Townsite	High	Septic system	VCA	Sanitary	50	459	02/01/96
12	0-030(o)	No	44	Townsite	High	Septic system	VCA	Sanitary	50	337	04/01/96

EM/ER:95-640

ACCELERATED CLEANUPS FY'96 (cont'd)

	PRS #	HSWA	SRS Rank	Modifying Factors	Priority	Description	Action	Potential Waste Type	Estimated Waste Volume yd^3	Estimated Cost ($K)	Estimated Start Date
13	0-030(p)	No	38	Townsite	High	Septic system	VCA	Sanitary	50	445	03/01/96
14	0-033	Yes	33	Townsite	High	UST	VCA	Industrial	90	276	In Progress
15	1-001(d)	Yes	49	Townsite	High	Septic tank 138 outfall	VCA	LLW	16	303	10/10/95
16	1-003(d)	Yes	38	Townsite	High	Surface disposal site	VCA	Metals	3	95	05/01/96
17	2-004(b)	No	71	Townsite	High	UST	VCA	Metals, Co-60, Cs-137, U	10 and 1,000 gals liquid	150	05/10/96
18	2-004(c)	No	71	Townsite	High	UST	VCA	Metals, Co-60, Cs-137, U	*	*	05/10/96
19	2-004(d)	No	71	Townsite	High	UST	VCA	Metals, Co-60, Cs-137, U	*	*	05/10/96
20	2-004(g)	No	71	Townsite	High	Portable tank	VCA	Metals, Co-60, Cs-137, U	*	*	05/10/96
21	2-009(a)	Yes	76	Townsite	High	Leach field	VCA	Cs-137, Sr-90, U, Pu, metals	15	154	03/01/96
22	2-009(d)	No	76	Townsite	High	Leach field	VCA	Cs-137, Sr-90, U, Pu, metals	*	*	03/01/96
23	3-056(c)	Yes	36	In Progress	High	Transformer storage area	EC	PCBs	980	1000	In Progress
24	9-013	Yes	68	Townsite	High	MDA M surface landfill	EC	Construction Haz Rad asbestos	7184	1050	11/17/95
25	10-001(a)	Yes	47	Townsite	High	Firing site - shrapnel	Interim	Report only	N/A	N/A	N/A
26	10-001(b)	Yes	47	Townsite	High	Firing site - shrapnel	Interim	Report only	N/A	N/A	N/A
27	10-001(c)	Yes	47	Townsite	High	Firing site - shrapnel	Interim	Report only	N/A	N/A	N/A
28	10-001(d)	Yes	47	Townsite	High	Firing site - shrapnel	Interim	Report only	N/A	N/A	N/A
29	12-001(a)	Yes	47	In Progress	High	Firing site	EC	Metals	1	110	10/02/95
30	14-001(f)	No	24	Townsite	High	Bullet test facility	EC	Metals, HE	1	10	10/02/95
31	14-002(a)	Yes	29	Townsite	High	Firing pad	EC	U	1	10	10/02/95
32	14-003	Yes	26	Townsite	High	Burn area	EC	Metals, HE, PAHs	1	10	10/02/95
33	14-006	Yes	24	Townsite	High	Sump	EC	PAHs	1	10	10/02/95

*Included in figure above

ACCELERATED CLEANUPS FY'96 (cont'd)

	PRS #	HSWA	SRS Rank	Modifying Factors	Priority	Description	Action	Potential Waste Type	Estimated Waste Volume yd^3	Estimated Cost ($K)	Estimated Start Date
34	14-010	Yes	24	Townsite	High	Sump	EC	U, HE	1	10	10/02/95
35	15-002	Yes	65	Townsite	High	Burn pit	EC	Pb, PAHs	2	80	10/02/95
36	15-004(b)	Yes	47	Townsite	High	Firing site (a-b)	EC	Pb	3	50	10/02/95
37	15-004(g)	Yes	56	Townsite	High	Firing site	EC	DU, Pb	1000	125	10/02/95
38	15-008(c)	Yes	56	Townsite	High	Septic tank	EC	Metals	3	40	10/02/95
39	15-009(j)	Yes	46	Townsite	High	Septic tank	EC	Metals	3	40	10/02/95
40	16-010(a)	Yes	62	Townsite	High	HE burn pad, overlaps some with 016(c)	EC	Metals, HE	70	302	08/01/95
41	16-010(l)	Yes	62	Townsite	High	Trough from HE building at burning grounds	EC	Metals, HE	*	*	*
42	16-016(c)	Yes	62	Townsite	High	Barium nitrate pile & drainage	EC	Metals, HE	*	*	*
43	16-020	Yes	60	Townsite	High	Silver outfall from photoprocessing bldg	EC	Metals, SVOCs, VOCs	150	300	05/30/95
44	16-021(a)	Yes	31	EPA High Priority	High	Outfall & drainage from sump	EC	VOCs, SVOCs, metals, HE	45	212	06/15/95
45	16-026(b)	Yes	42	EPA High Priority	High	Outfall & drainage from sump	EC	VOCs, SVOCs, metals, HE	*	*	*
46	16-026(j2)	Yes	35	EPA High Priority	High	Outfall & drainage from sump	EC	VOCs, SVOCs, metals, HE	*	*	*
47	16-030(g)	No	42	EPA High Priority	High	Outfall & drainage from sump	EC	VOCs, SVOCs, metals, HE	*	*	*
48	16-030(h)	Yes	47	EPA High Priority	High	Outfall & drainage from sump	EC	VOCs, SVOCs, metals, HE	*	*	*
49	21-027(a)	Yes	54	SRS >50	High	Surface discharge	EC	LLW, mixed	50	253	04/01/96

*Included in figure above

ACCELERATED CLEANUPS FY'96 (cont'd)

	PRS #	HSWA	SRS Rank	Modifying Factors	Priority	Description	Action	Potential Waste Type	Estimated Waste Volume yd^3	Estimated Cost ($K)	Estimated Start Date
50	21-029	Yes	32	Land Transfer	High	Soil contamination area	EC	Industrial, sanitary	2201	410	02/01/96
51	22-012	Yes	56	Aggregate Ave >50	High	Decontamination facility	EC	Haz (HE)-contaminated concrete	3	30	02/13/96
52	22-014(a)	Yes	46	Aggregate Ave >50	High	Sump and seepage pit (active)	EC	Haz (HE) soil	2	50 (cap)	03/11/96
53	22-014(b)	Yes	46	Aggregate Ave >50	High	Explosives and chemical waste line and outfall (active)	EC	Haz	2	30	03/25/96
54	22-015(b)	Yes	46	Aggregate Ave >50	High	Concrete sump, aluminum tank, outfall	EC	Haz	4	40	03/25/96
55	22-015(d)	Yes	56	Aggregate Ave >50	High	Explosives drain, seepage pit	EC	Haz	5	40	03/25/96
56	22-015(e)	Yes	56	Aggregate Ave >50	High	Explosives sump, outfall	EC	Haz	5	40	03/25/95
57	32-001	Yes	28	Townsite	High	Former incinerator location	EC	PCB, sanitary	78	95	04/01/96
58	32-002(a)	Yes	33	Townsite	High	Septic tank outfall	EC	VOCs, metals, sanitary, industrial	84	275	05/01/96
59	32-002(b)	Yes	33	Townsite	High	Septic tank outfall	EC	VOCs, metals, sanitary, industrial	84	275	05/01/96
60	32-003	Yes	(new)	Townsite	High	PCB transformer pad	EC	PCB, sanitary	78	95	04/01/96
61	33-010(a)	Yes	36	In Progress	High	Canyon-side debris area, east site	VCA	U, industrial, metals	10.5	11.6	11/2/95
62	33-010(b)	Yes	36	In Progress	High	Canyon-side debris area, east site	VCA	U, industrial, metals	30	47.4	11/20/95
63	33-010(d)	Yes	36	In Progress	High	Surface debris area, east site	VCA	U, industrial, metals	6.5	11.2	11/21/95
64	33-010(g)	Yes	46	In Progress	High	Canyon-side debris area, south site	VCA	U, industrial, metals	6.3	10.3	11/07/95

ACCELERATED CLEANUPS FY'96 (cont'd)

	PRS #	HSWA	SRS Rank	Modifying Factors	Priority	Description	Action	Potential Waste Type	Estimated Waste Volume yd^3	Estimated Cost ($K)	Estimated Start Date
65	33-011(b)	No	36	In Progress	High	NRAO site	VCA	U, industrial, metals	6.3	10.6	10/03/95
66	35-003(a)	Yes	69	SRS >50	High	USTs	EC	Rad, metals, SVOCs	5	284	After 02/96
67	35-003(b)	Yes	69	SRS >50	High	USTs	EC	Rad, metals, SVOCs	*	*	*
68	35-003(c)	Yes	69	SRS >50	High	USTs	EC	Rad, metals, SVOCs	*	*	*
69	35-003(n)	Yes	69	SRS >50	High	USTs	EC	Rad, metals, SVOCs	*	*	*
70	35-009(a)	Yes	60	SRS >50	High	Septic system	EC	Haz, industrial wastes	125	257	12/01/95
71	35-009(b)	Yes	60	SRS >50	High	Drain fields	EC	Haz, industrial wastes	*	*	12/01/95
72	35-009(c)	Yes	60	SRS >50	High	Leach field	EC	Haz, industrial wastes	*	*	12/01/95
73	35-015(a)	Yes	72	SRS >50	High	Tank farm and waste oil treatment system	EC	Oils, metals, PCBs, SVOCs, Rad	10	171	11/15/95
74	35-018(a)	No	60	SRS >50	High	Transformer	VCA	PCBs	5	109	01/03/96
75	36-001	Yes	46	In Progress	High	MDA trench	Interim	U, metals, solvents	None	100	02/05/96
76	36-003(b)	Yes	52	SRS >50	High	Septic tank	EC	Metals	4	100	02/05/96
77	C-36-003	Yes	65	SRS >50	High	Photo outfall	EC	PCBs	1	316	02/05/96
78	39-002(a)	Yes	36	In Progress	High	Surface storage area	EC	PCBs, Pb, U, Mixed	10	39	02/10/95
79	40-005	Yes	46	Aggregate Avg >50	High	Explosives sump, outfall (active)	EC	Haz	5	40	03/25/96

*Included in figure above

ACCELERATED CLEANUPS FY'96 (cont'd)

	PRS #	HSWA	SRS Rank	Modifying Factors	Priority	Description	Action	Potential Waste Type	Estimated Waste Volume yd^3	Estimated Cost ($K)	Estimated Start Date
80	49-001(b)	Yes	26	In Progress (Pilot Study)	High	MDA B hydronuclear test shafts	Interim	Construction (clean)	290 (asphalt) 290 (clay/gravel)	516	01/16/96
81	53-002(a)	Yes	67	RCRA Closure	High	Surface impoundments	Interim	Rad, PCBs, solvents	1	975	10/02/95
82	54-001(a)	Yes	65	Pilot Study	High	Bermed haz-waste storage (active, domed)	Interim	None	None	None	None
83	54-001(b)	No	65	Pilot Study	High	Mixed-waste container packaging/storage (active; RCRA Int. St.	Interim	Mixed	1	20	04/17/96
84	54-001(d)	No	65	Pilot Study	High	PCB storage/treatment (active; TSCA permit)	Interim	Haz	1	20	04/17/96
85	54-001(e)	No	65	Pilot Study	High	6-cell, concrete pad	Interim	None	None	None	None
86	54-002	No	65	Pilot Study	High	Gas cylinder storage area; MDA L	Interim	Construction (clean)	5	50	02/02/96
87	54-006	Yes	65	Pilot Study	High	All disposal pits & shafts, MDA L; Interim Action	Interim	Construction (clean)	1	527	10/02/96
88	54-007(c)	Yes	32	Pilot Study	High	Septic tank (2000 gal), seepage trench	EC	Haz	3	25	04/03/96
89	54-007(d)	No	32	Pilot Study	High	Septic tank (972 gal), seepage trench	VCA	Haz	3	20	04/03/96
90	54-007(e)	No	32	Pilot Study	High	Septic tank (1500 gal), seepage trench	VCA	Haz	3	25	04/03/96
91	54-009	No	65	Pilot Study	High	Treatment tanks; MDA L	Interim	Haz + construction (clean)	7	75	06/05/96
92	54-012(b)	No	65	Pilot Study	High	Compactor	Interim	Haz	2	50	06/05/96
93	54-014(a)	Yes	65	Pilot Study	High	Decontamination facility	EC	Rad	1	25	06/05/96