

Appendix D

Definitions

Site Category	Site Type	Site Description ¹	Primary Contaminants
Base Operations Engineered Structures	Building Demolition/Debris Removal	Building demolition/debris removal sites consist of buildings and/or debris that are unsafe or must be removed.	<ul style="list-style-type: none"> • Asbestos • Construction debris • Lead paint
	Contaminated Building	Contaminated building sites result from releases within or on the outside of a structure of a substance that has been contained within the building.	<ul style="list-style-type: none"> • Petroleum, oil, and • POL sludge • Propellants lubricants (POL) • Asbestos • Pesticides • Plating waste • Polychlorinated • Solvents • Metals biphenyls (PCB) • Acids
	Dip Tank	Dip tanks are typically metal or concrete units located in coating shops that range in size from 50 to more than 500 gallons. The tanks are used to clean parts prior to treatment, or to coat parts with various materials including metals and plastics.	<ul style="list-style-type: none"> • POLs • Chlorinated solvents • Metals • Acids
	Incinerator	Incinerators typically consist of a furnace and stack unit used for a variety of disposal activities including the incineration of medical waste, or an installation's dunnage. These units vary in size and may either be freestanding or part of other operations such as hospitals.	<ul style="list-style-type: none"> • Ash • Metals • Ordnance compounds
	Oil/Water Separator	Oil/water separators are typically small units that skim oil from storm water runoff. The oil/water separator site consists of the unit, and any associated piping.	<ul style="list-style-type: none"> • POLs • PCBs • Solvents • Industrial wastewater
	Storage Area	Storage areas are areas where spills and leaks occurred from stored containers or equipment.	<ul style="list-style-type: none"> • POLs • Metals • Solvents • Acid • POL sludge • PCBs
	Washrack	Washrack sites typically consist of a building designed for washing vehicles such as tanks, aircraft, and other military vehicles. This unit also may consist of a paved area where washing of vehicles occurs.	<ul style="list-style-type: none"> • POLs
	Maintenance Yard	Maintenance yards consist of paved or unpaved areas where vehicles and other maintenance equipment is stored and often serviced. Typically, maintenance supplies are stored at these units.	<ul style="list-style-type: none"> • POLs • Solvents • Metals
Storage Tanks	Aboveground Storage Tanks	Aboveground storage tank sites result from release of substances to surrounding areas from above ground tanks, containers, and any associated piping.	<ul style="list-style-type: none"> • POLs (for example, heating oil, jet fuel, gasoline, and POL sludges)
	Petroleum, Oil, Lubricant Distribution Line	Petroleum, oil, lubricant distribution lines are used to transport POL products from storage to dispensing facilities.	<ul style="list-style-type: none"> • POLs (for example, heating oil, gasoline, Jet A, diesel, and other fuels) • POL sludge
	Underground Storage Tanks	Underground storage tank sites result from the release of substances from underground storage tanks and any associated piping.	<ul style="list-style-type: none"> • POLs • Solvents • POL sludges • Metals
	Underground Storage Tank Farm	Underground storage tank farm sites result from the release of substances from multiple, typically large, underground storage tanks and associated piping which make up a tank farm complex.	<ul style="list-style-type: none"> • POLs • Solvents • POL sludges • Metals
Industrial Operations	Optical Shop	Optical shops typically consist of laboratory units located within a building. Activities include grinding lenses used in eye glasses or other optical instruments.	<ul style="list-style-type: none"> • Solvents
	Pesticide Shop	Pesticide Shops are typically used to store and prepare large volumes of pesticides and solvents for maintenance activities. The units may be located in a	<ul style="list-style-type: none"> • Pesticides • Metals • POLs

		freestanding building or attached to another building. Areas near the unit may have been used for the disposal of off-specification pesticides.	
	Plating Shop	Plating shops typically consist of a building or room within a building used for coating metal parts. The unit contains several tanks of solvents which are used in the plating process.	<ul style="list-style-type: none"> • Metals • Industrial wastewater • Solvents • Acids
	Sewage Treatment Plant	Sewage treatment plants typically consist of a complex of tanks, piping, and sludge management areas used to treat sanitary sewage generated at an installation. The unit may use chemical or biological treatment methods. Lagoons associated with the biological treatment of sewage may be considered to be separate units.	<ul style="list-style-type: none"> • Metals • Industrial wastewater • Solvents • POLs
	Waste Water Treatment Plant	Wastewater treatment plant sites result from releases of substances at plants that were used to treat and dispose of domestic and/or industrial wastewater.	<ul style="list-style-type: none"> • POLs • Industrial wastewater • Solvents • Explosive chemicals • Plating sludges
	Waste Line	Waste lines are underground piping used to carry industrial wastes from shop facilities to a wastewater treatment plant.	<ul style="list-style-type: none"> • Solvents • Metals • Plating sludges • Pesticides • Explosive chemicals
Training Areas	Burn Area	Burn area sites consist of pits or surface areas that were used for open-air incineration of waste.	<ul style="list-style-type: none"> • POLs (for example, spent • Explosives motor oil and jet fuel) • Propellants • Solvents (for example, spent paint thinners, and degreasing agents) • Ordnance
	Explosive/Ordnance Disposal Area	Explosive/ordnance disposal areas consist of open-air areas that were used to detonate, demilitarize, bury, or dispose of explosives.	<ul style="list-style-type: none"> • Unexploded ordnance (UXO) • Explosive chemicals • Ordnance compounds • Metals
	Fire/Crash Training Area	Fire and crash rescue training areas consist of trenches and/or pits where flammable materials were ignited periodically for demonstrations and training exercises.	<ul style="list-style-type: none"> • POLs • POL sludges • Solvents • Metals
	Firing Range	Firing ranges consist of large areas of land used for practice firing of large artillery or mortars, or as a practice bombing range for aircraft. These areas are typically contaminated with unexploded ordnance which may be found both on and below the ground surface.	<ul style="list-style-type: none"> • Metals • Ordnance compounds • Explosives • UXO • Radionuclides
	Pistol Range	Pistol ranges may be located indoors or outdoors and are used for target practice. Outdoor units include a soil or sandbag berm located behind the targets to prevent bullets from travelling outside the range area.	<ul style="list-style-type: none"> • Metals
	Small Arms Range	Small arms ranges are typically located outdoors and used for target practice of small arms, usually 50 caliber or less. The unit may include a soil or sandbag berm, or hill located behind the targets to prevent bullets from travelling outside the range area.	<ul style="list-style-type: none"> • Metals • Ordnance compounds
	Unexploded Munitions	Unexploded munitions and ordnance areas are areas that have been used for munition and ordnance training.	<ul style="list-style-type: none"> • UXO • Explosive chemicals • Metals • Ordnance compounds
Radioactive Areas	Mixed Waste Area	Mixed waste areas consist of areas used to store or dispose of hazardous wastes that have been mixed with or contaminated by radioisotopes.	<ul style="list-style-type: none"> • Solvents • Mixed waste
	Low-level Radioactive Waste Area	Radioactive waste areas consist of areas used to store or dispose of low-level radioactive materials of various types (for example, radium paint, and radioactive instruments and propellants).	<ul style="list-style-type: none"> • Low-level radioactive waste
Surface Discharge Areas	Drainage Ditch	Drainage units typically consist of a natural or man made ditch used as a runoff control structure for rainfall. The unit also may be used for runoff from other sources such as process operations. Man made units may be concrete lined.	<ul style="list-style-type: none"> • POLs • Metals • Solvents • Explosive chemicals • PCBs
	Industrial Discharge	Industrial discharge units consist of a pipe system used to discharge industrial effluent to the environment. The unit may discharge to a natural or man made	<ul style="list-style-type: none"> • Metals • Industrial wastewater

		water body, or to a dry creek bed or some other natural feature.	
	Sewage Effluent Settling Pond	Sewage effluent settling ponds consist of a lagoon used for the settling of solids and/or biological treatment of sewage. The units also may be used as infiltration galleries.	<ul style="list-style-type: none"> • Metals • Ordnance compounds • Solvents
	Storm Drain	Storm drains typically consist of a natural or man made drain used as a runoff control structure, for rainfall. The unit also may be used for runoff from other sources such as process operations. Man made units may be concrete lined.	<ul style="list-style-type: none"> • POLs • Pesticides • Metals • Industrial wastewater • POL sludge • Solvents
	Surface Impoundment/Lagoon	Surface impoundments and lagoons consist of unlined depressions, excavations, or diked areas which were used to accumulate liquid waste, waste containing free liquid, or industrial wastewaters.	<ul style="list-style-type: none"> • POLs • Metals • Solvents • Ordnance compounds • Explosive chemicals • Industrial wastewater
	Surface Runoff	Surface runoff is an area with sheet runoff from rain. This may occur anywhere within a facility, particularly adjacent to industrial areas and airfield aprons.	<ul style="list-style-type: none"> • POLs • Solvents • Metals • Explosive chemicals
	Spill Area	Spill areas are small areas where spills from drums, tanks, and other waste storage units have taken place.	<ul style="list-style-type: none"> • POLs • POL sludge • PCBs • Solvents • Metals
	Surface Disposal Area	Surface disposal area sites consist of small areas formerly used for disposal of solid wastes with little or no free liquids. Typical materials include rags, filters, paint cans, small capacitors, and batteries.	<ul style="list-style-type: none"> • POLs • Paints • Solvents • Metals • Paint • Acids • Pesticides • PCBs
Subsurface Disposal Areas	Chemical Disposal	Chemical disposal units are areas that have been used for the disposal of chemicals, typically of an unknown type. The unit may be a burial area where bottles or packages of chemicals were placed or an area where liquids were disposed of on the soil.	<ul style="list-style-type: none"> • POLs • Solvents • Metals • Explosive chemicals
	Disposal Pit/Dry Well	Disposal pit/dry well sites consist of small unlined excavations and structures that were used over a period of time to dispose of small quantities of liquid wastes.	<ul style="list-style-type: none"> • POLs (for example, motor oil) • Metals • Explosive chemicals • Acids (for example, battery acid) • Ordnance compounds • Solvents
	Landfill	Landfill sites are typically areas formerly used to dispose of both domestic and industrial hazardous waste.	<ul style="list-style-type: none"> • POLs • Pesticides • Solvents • Metals • Paint • Ordnance compounds
	Leach Field	Leach fields typically consist of a subsurface area generally associated with septic tanks. The unit serves the purpose of biologically treating sanitary sewage, however, in cases where these units were used at industrial facilities, there is also contamination from non-biodegradable industrial contaminants.	<ul style="list-style-type: none"> • Metals • Solvents
Contaminated Media	Contaminated Fill	Contaminated fill areas consist of contaminated fill resulting from excavations for construction, tanks, and other purposes.	<ul style="list-style-type: none"> • POLs • Explosive chemicals • Metals • Paint waste • Ordnance compounds
	Contaminated Groundwater	Contaminated groundwater results from various types of releases of known or unknown origin, such as migration of leachate from disposal areas and migration of substances from contaminated surface and subsurface soils.	<ul style="list-style-type: none"> • POLs • Metals • Chlorinated solvents • Explosive chemicals • Non-chlorinated solvents
	Contaminated Sediments	Contaminated sediments include sediments of bodies of water that have been contaminated by surface runoff, subsurface migration, or direct discharge of contaminants.	<ul style="list-style-type: none"> • POLs • Metals • PCBs

			<ul style="list-style-type: none"> • Solvents • Pesticides • Explosive chemicals
	Contaminated Soil Piles	This unit consists of soil that has been staged after an excavation activity.	<ul style="list-style-type: none"> • POLs • Solvents • Sludge • PCBs • Metals • Ordnance compounds
	Soil Contaminated After Tank Removal	This unit consists of soil that has been removed during a tank removal operation and staged prior to treatment.	<ul style="list-style-type: none"> • POLs • POL sludge

Appendix D

Site Type Counts

	Site Type	Army		Navy		Air Force		DLA		FUDS		DSWA		DoD Total	
		Total Sites	Sites In Progress	Total Sites	Sites In Progress	Total Sites	Sites In Progress	Total Sites	Sites In Progress	Total Sites	Sites In Progress	Total Sites	Sites In Progress	Total Sites	Sites In Progress
Base Operations/Engineered Structures	Building Demolition/Debris Removal	28	20	23	16	4	4	0	0	350	203	1	1	406	244
	Contaminated Buildings	778	261	58	45	36	14	76	47	38	30	0	0	986	397
	Dip Tank	4	2	5	5	1	1	4	3	0	0	0	0	14	11
	Incinerator	76	36	19	10	4	0	5	2	7	6	0	0	111	54
	Oil Water Separator	460	46	44	33	71	24	1	1	1	0	0	0	577	104
	Storage Area	2,802	412	581	352	143	52	99	52	61	41	5	5	3,691	914
	Washrack	50	22	9	6	5	2	4	4	0	0	0	0	68	34
	Total	4,198	799	739	467	264	97	189	109	457	280	6	6	5,853	1,758
Contaminated Media	Contaminated Fill	54	39	24	18	8	6	80	11	91	73	0	0	257	147
	Contaminated Ground Water	191	177	82	75	40	29	15	15	188	144	0	0	516	440
	Contaminated Sediments	138	115	112	76	24	15	14	2	54	46	0	0	342	254
	Contaminated Soil Piles	39	32	16	14	1	1	18	17	15	12	0	0	89	76
	Soil Contamination After Tank Removal	66	41	8	7	8	3	25	24	107	71	0	0	214	146
	Total	488	404	242	190	81	54	152	69	455	346	0	0	1,418	1,063
Industrial Operations	Maintenance Yard	85	69	46	46	13	3	1	1	2	2	0	0	147	121
	Optical Shop	1	1	0	0	0	0	0	0	0	0	0	0	1	1
	Pesticide Shop	39	25	14	12	6	3	7	6	0	0	0	0	66	46
	Plating Shop	9	6	10	8	2	1	1	0	1	1	0	0	23	16
	Sewage Treatment Plant	55	31	7	4	69	33	1	0	4	4	0	0	136	72
	Waste Lines	135	64	70	56	35	23	4	3	6	4	0	0	250	150
	Waste Treatment Plant	259	78	38	27	43	25	0	0	1	1	0	0	341	131
	Total	583	274	185	153	168	88	14	10	14	12	0	0	964	537
Radioactive Areas	Mixed Waste Area	10	5	28	19	8	6	1	0	7	6	0	0	54	36
	Radioactive Waste Area	50	34	9	5	76	22	0	0	7	6	5	5	147	72
	Total	60	39	37	24	84	28	1	0	14	12	5	5	201	108
Storage Tanks	Above Ground Storage Tank (Number of Tanks)	324	65	86	68	42	23	11	8	100	52	0	0	563	216
	POL (Petroleum /Oil/Lubricants)	29	26	76	61	50	27	9	3	24	13	0	0	188	130

	Lines														
	Underground Storage Tanks	1,396	367	755	483	952	477	68	25	702	292	0	0	3,873	1,644
	Underground Tank Farm (Number of Tanks)	90	50	91	65	8	4	0	0	26	14	0	0	215	133
	Total	1,839	508	1,008	677	1,052	531	88	36	852	371	0	0	4,839	2,123
Subsurface Disposal Areas	Chemical Disposal	40	34	1	1	3	1	0	0	15	10	0	0	59	46
	Disposal Pit/Dry Well	361	256	143	99	518	275	54	45	19	15	1	0	1,096	690
	Drainage Ditch	33	26	21	19	9	6	5	5	1	1	0	0	69	57
	Landfill	890	554	428	300	762	471	19	9	92	79	7	7	2,198	1,420
	Total	1,324	870	593	419	1,292	753	78	59	127	105	8	7	3,422	2,213
Surface Discharge Areas	Industrial Discharge	57	46	12	9	9	5	0	0	2	1	0	0	80	61
	Leach Field	33	29	5	4	6	2	1	1	0	0	0	0	45	36
	Sewage Effluent Settling Ponds	12	10	2	2	4	4	0	0	3	2	0	0	21	18
	Spill Site Area	767	374	414	281	1,484	858	36	24	14	12	12	12	2,727	1,561
	Storm Drain	21	13	11	11	66	55	5	3	2	2	0	0	105	84
	Surface Disposal Area	630	280	703	444	413	235	6	2	39	33	1	1	1,792	995
	Surface Impoundment/Lagoon	302	207	109	80	23	13	10	9	26	21	3	3	473	333
	Surface Runoff	30	21	10	7	2	2	0	0	5	3	0	0	47	33
	Total	1,852	980	1,266	838	2,007	1,174	58	39	91	74	16	16	5,290	3,121
Training Areas	Burn Area	242	173	68	51	17	9	19	8	15	13	0	0	361	254
	Explosive Ordnance Disposal Area	156	103	48	35	9	5	0	0	69	65	0	0	282	208
	Fire/Crash Training Area	87	65	123	106	319	176	3	2	10	9	1	1	543	359
	Firing Range	42	31	16	13	4	3	0	0	100	94	0	0	162	141
	Pistol Range	18	12	9	7	2	2	4	2	2	2	0	0	35	25
	Small Arms Range	33	28	3	2	9	5	1	1	41	36	0	0	87	72
	Unexploded Munitions/Ordnance Area	186	84	48	33	11	5	0	0	539	461	0	0	784	583
	Total	764	496	315	247	371	205	27	13	776	680	1	1	2,254	1,642
Other	Other	1,077	50	48	36	276	172	27	9	1,263	1,087	0	0	2,691	1,354
TOTAL	Total	12,185	4,420	4,433	3,051	5,595	3,102	634	344	4,049	2,967	36	35	26,932	13,919