Table A-1. Total Metals Results for Properties Less than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Garden																																							
		Depth, inches	0-6										6-12										12-18										18-24									
		Containimant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	Population	Garden Present (Y/N)	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual
[redacted]		N																																								
		N																																								
		Y	12		15		450		300		2000		20		17		610		310		2600		25		12		1300		120		1700		20		9.4		670		140		2000	
		Y	14		11		990		530		1400		10		5.5		740		130		700		13		5.8		830		250		740		10		1.7	J	640		58		220	
		N																																								
		Y	11		7.1		510		110		940		17		12		700		200		1400		22		9.8		1000		160		1300		20		1	J	500		23		200	
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	Sensitive Population	N																																								
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		Y	16		11		790		620		1700		12		7.6		1100		330		1900		18		8		630		360		1400		8.1		2	J	340		26		380	
		Y	36	J	13		700		170		1900		33		11		1600		440		1500		18		2.7		750		56		600		14		1.4	J	560		18		260	
		N																																								
		Y	9.2		3.3	U	250		7.1	J	31		11		3		540		78		560		6.7		1.2	J	290		29		190		8.9		2		330		36		270	
		Y	8.1		5		320		78		590		26		9.8		770		340		1400		16		5.9		630		280		1000		12		8		740		74		780	
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		Y	9.6		4.6		670		280		690		8.5		4.2		600		250		580		11		5.6		910		360		730		15		6.3		1200		370		810	
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	Sensitive Population	N																																								
		Y	8.9		4.6		430		54		610		8.1		4.4		450		54		550		10		7.5		480		72		1000		9.7		3.1		1100		36		340	
		N																																								
		Y	44		22		1200		360		2900		20		25		2100		340		3000		18		12		850		340		2000		21		7.6		900		240		1600	
		Y	8.7		5.7		730		120		890		10		11		540		260		900		12		6.6		1000		62		770		8.7		2.8		1500		44		400	
	Sensitive Population	N																																								

Table A-1. Total Metals Results for Properties Less than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Garden																																							
		Depth, inches	0-6										6-12										12-18										18-24									
		Containminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]		N																																								
		Y	9.8		6.2		720		180		850		10		6.7		920		180		940		11		8		1200		140		1000		11		13		880		280		2500	
		N																																								
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	Sensitive Population	N																																								
	Sensitive Population	N																																								
	Sensitive Population	N																																								
	Sensitive Population	N																																								

Notes:

Yellow highlighting indicates the result exceeds the Vegetable Garden Cleanup Level

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit

Table A-1. Total Metals Results for Properties Less than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Front																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containimant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	Population	Garden Present (Y/N)	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual
[redacted]		N	14		23		1200		240		3500		9.4		2.5		770		40		390		7.8		3.6		900		46		590		8.1		4.3	J	1100	J	37	J	570	
		N	24		53		2400		420		6100		16		32		800		280		4300		17		26		530		300		4600		14		15		820		210		2800	
		Y	17		25		1100		320		3200		7.9		7.5		430		87		1500		9.5		9.1		380		120		2100		11	J	12		610		230		2300	
		Y	13		12		790		340		1900		16		22		650		380		2700		10		6.8		980		660		1000		7.7		3.3		1100		74		470	
		N	13		5.1		570		59		640		11		3.6		580		31		390		11		2.9		760		30		370		11		2.3		380		26		340	
		Y	14		12		730		120		1500		13		5.9		490		46		740		20		13		790		300		1800		21		13		680		110		1700	
		N	9.7		8.6		800		77		1100		7.8		4.8		810		41		500		9		2.2		520		22		340		9.6		3.9		530		47	J	810	J
		N	11		22		1100		420		3000		9.8		7.6		460		330		2000		12		16		1200		350		2700		8.4		4		1300		100		870	
		N	15		12		830		100		1300		16		5.8		620		56		870		23		13		1100		86		1500		14		4.8		970		62		840	
		N	12		13		880		780		1600		11		5.1		1200		69		610		7.5		2.3		930		27		240		9		2		800		38		270	
	Sensitive Population	N	8.4		5.4		830		84		820		8.6		8.9		690		79		1300		9.2		3.1		750		45		1400		10		1.4	J	790		18		240	
		N	6.1		4.8		470		55		640		3.6	J	2.5		730		17		290		8.3		1.1	J	510		18		340		9		0.4	J	1200		19		83	
		N	16		8.2		760		100		1100		10	J	7.1	J	1000		61	J	1000	J	8.7		3.6		710		36		500		7.1		3		710		29		470	
		N	9.7		8.5	J	840	J	85		1100	J	13		6		920		75		750		11		5.2		1700		47		910		10		1.6	J	950		22		220	
		N	7.7		6.2		720		130		820		12		15		1300	J	150		1500		9		10		690		86		1300		5.3		1.4	J	840		16		160	
		Y	13		15		850		370		2100		17		24		1200		300		2400		18		14		960		400		2400		14		10		830		460		1700	
		Y	15		17		690		400		2600		13		11		1000		210		1700		7.4		7.2		1500		49		770		5.8		2		900		52		250	
		N	11		4.9		990		100		800		7.7		3.5		650		70		580		10		4.5		1400		93		560		12		5		320		58		540	
		Y	5.7		1.1	J	240		140		190		8.7		3		670		80		540		7.5		1.8		510		42		260		8.3	J	1.8	J	380		42	J	260	J
		Y	12		8.1		520		150		1100		9		11		550		71		1500		4.3		3.9		410		43		420		7		4.2		310		110		640	
		N	11		5.8		460		93		740		15		6.5		640		120		1100		8.5		4.2		510		100		990		8.7		2.7		570		55		410	
		N	7.7		2.5		550		62		430		10		14		640		130		1500		7.6		5.4		1300		55		450		5.9		1.5	J	540		25		240	
		N	8.2		11		790		85		990		9		5	J	660	J	65	J	700	J	11		1.2	J	750		18		210		5.9		1.6	J	700		19		250	
		N	10		8.3		1200		120		960		7		4.5		590		52		580		6		2.6		630		27		360		7.4		1.4	J	1100		22		190	
		N	170		6		570		68		690		47		4.3		480		39		570		15		1.5	J	530		13		210		13		1.4	J	380		25		270	
		N	9.9		11		840		600		1400		7.5		3.8		430		59		470		6.4		2		760		50		320		7.6		2.9	J	780	J	630	J	710	J
		N	9.3		5.3		480		100		670		11		2.8		720		64		400		13		4.5		1300		76		770		5.7		1.5	J	590		28		200	
		N	11		9.4		680		190		1300		9.4		4.1		820		130		500		11		3.8		720		43		410		8.8		3.3		710		30		350	
		N	10		9.3		770		87		1300		6.9		0.94	J	420	J	16		110		7.4		2.8		730		31		410		10		3.6		1300		96		510	
		N	9.4		5.3		640		65		680		8.3		3.3	J	910	J	35		350		10		2.8		1300		42		290		10		4.1		870		110		520	
		N	7.5		2		810		61		310		11		7.2		1100		280		1100		5.6		0.87	J	1200		15		100		7.7		2.8		900		26		360	
		N	58		3		320		54		370		20		6.7		6200	J	140	J	1200	J	13		3.8		640		78		530		14		8.7		820		110		1100	
		N	15		13		840		200		1400		9.1		6		610		110		820		13		6.9		1200		69		880		8.5	J	4.7		660	J	67		610	
		N	9.6		9.6		540		75		1300		9.9		6.3		430		58		870		7.3		3		490		24		400		7		2.7		360		24		390	
		N	10		7.2		380		57		1000		7.7		16	J	620	J	34		1400	J	4.9	J	1.8	J	620		20		280		6.5		1.9		290		28		280	
		N	11		14		620		180		1800		7.9		4.6		640		60		680		10		7.3		3000		58		740		6.2		3.9		400		30		510	
		N	12		8.8		830		180		1100		9.2		5.5		680		100		1000		9		8.1		470		150		2700		6.6		2.5		510		38		1200	
		N	14		15		950		300		2200		11		8.7		1200		130		1200		9.8		2.5		1400		50		430		12		3.4		2900		50		470	
		N	13		13		1100		220		1400		13		10		740		170		1300		11		4.7		770		110		870		14	J	12	J	1000	J	290		2100	
		N	6.9		4.6		540		99		900		11		9.5		440		190		2500		11		7.1		640		96		1200		9.2		0.94	J	730		28	J	300	J
		N	10		19		1200		350		2700		7.8		10		720		240		1900		6.7		9.1		2800		63		720		7.5		2	J	1000		53		300	
		N	21		29		780		580		4200		13		16		610		510		2800		14		23		590		380		4500		25		17		850		650		3300	
		N	13		31		890		360		3800		16		24		760		560	J	4600		12		12		770		540		4300		9.5		5.8		650		360		2200	
		N	18		29		1100		330		3300		17		14		1600		230		1800		17		13		980		300		2100		18		7.4		1100		200		1100	
		N	15		8.4		820		170		1100		14		4.2		810		68		500		17		1.7		1400		43		210		15		1.4	J	2100		110		150	
		N	7.9		3.5		630		46		470		11		4.2		570		70		630		9.5		1.1	J	680		22		220		22		1.9	J	1000		24		270	
		N	8.5		4		790		140		700		8.6		6.2		390		180		1400		10		7.2		1500		100		1000		6.8		11		450		28		980	
		N	12		15		760		320		2600		9		5.5		720		78		820		6.5		2.2		460		60		400		13		9.2		730		330		1500	
		N	14		15		550		310		2000		9.9		9.4		740		580		1200		10		21		700		420		4000		8.9		9	J	1000	J	180	J	1800	J
		Y	20		15		2200		880		1900		15		5.4		1500		130		690		29	J	5.5	J	2200	J	170	J	710	J	14		2.2		1400		63		300	
		N	7		6		700		90		750		7		1.4	J	660		24		190		4.2		1.2	J	1600	J	27		230	J	9.2		6.8		950		110		940	
		N	22		53		1200		570		6400		20	J	22	J	1000		420	J	4600	J	24		20		950		650		6300		11		7.3		1000		160		1900	
		N	14		24		1100		440		2300		13		18		1100		280		2000		11		9.5		640		220		2100		8.7		8.7		1200		58		670	
		N	42	J	3.8	J	920		57		360	J	100		5		920		46		510		250		7.2		520		170		390		49		2.6		530		34		310	
	Sensitive Population	N	15		17		1200		300		2800		18		18		800		450		4800		16		20		970		510		5000		8		4.2		950		120		1200	
		N	14		9.6		840		160		1400		8.2		15		400		94		3100		7.6		23		800		78		380		8.3		2.6		2300		71		720	
	Sensitive Population	N	8.8		9.7		490		300		1300		17		19		740		250		5200		8.4		4.1		1700		70		580		7.1		1.8		1100		28		260	
		N	8		13		650		340		1800		9.6		2.9		680		130		520		8.8		2.4		580		120		570		10		2.1		1100		62		340	
	Sensitive Population	N	12		6.1		1100		180		900		11		12		690		320		1500		5.9		3.1		440		100		550		7.1		2.5		770		56		380	
	Sensitive Population	N	21		24		1200		510		3600		14		17		660		310		3200		15		24		520		870		14000		7.6		11		500		130		2300	
		N	12		7		1100		240		820		9.2		2.7		1400		83		300		9.8		2.2		1200		110		310		8.7		1.9		1500		99		320	
	Sensitive Population	N	12		13		1000		150		1600		11		4.7		660		75		710		17		3.8	J	1100	J	60	J	1500	J	14		1.5	J	1200		28		240	
		N	10		9.9		700		210		1900		11		7.3		510		180		2100		15		19		1100		700		11000		8.2	J	1.8		660	J	39		330	
	Sensitive Population	N	20		18		1400		1600		3400		12		12		700		180		3800		7.8		0.42	J	960		17		82		11		3.2		870		55		1100	
		Y	10		11		640		91		1300		10		12		810		130		1600		8.9		7.7		710		63		820		7.6		5.5	J	1000	J	52	J	540	J
		N	12		13		870		64		1300		10		5.2		1400		34		350		8		2.3		560		28		290		11		2.3		660		27		320	
		Y	33		29		2100		620		3300		29		23		1200		280		3000		22		20		1200		270		2400		14		14	J	960		250	J	1700	J
		Y	14		15		510		360		2500		45		37		530		430		26000		22		15		410		380		3600		13		24	J	2300	J	250	J	3200	
	Sensitive Population	N	13		22		720		500		2400		13		14		840		260		1600		9.1		5.2		510		140		870		11		8.3		500		170		1400	

Table A-1. Total Metals Results for Properties Less than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Front																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containimant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]		N	8.5		3.7		400		47		450		11		3.8		540		44		550		10		3.5		1200		31		370		9.1		4.1		790	J	34		530	
		Y	9.4		11		1000		160		1300		9.1		7.3		840		75		800		9.4		9		900		100		890		6.8		5.3		940		78		690	
		N	11		8.3		1000		120		1000		7.4		4.5		890		39		440		13		3.2		650		130		500		8.2		2.7		500		38		380	
		N	21		41		2200		400		5100		12		22		1300		270		3000		6		2.5		900		44		470		9.9		4		1000		58		560	
	Sensitive Population	N	11		24		3800		440		3400		16		32		2600		580		3400		8.6		10		2800		300		1700		8	J	4	J	1400		160	J	1200	J
	Sensitive Population	N	28		4.9		610		87		620		14		3.7		760		34		450		12		4.6		920		44		570		12	J	2.7	J	670		83	J	340	
	Sensitive Population	N	9.9		1.6	J	690		17		220		8		5.7		910		40		560		10		4.3		600		39		500		9.4		1.8	J	390		20		270	
	Sensitive Population	N	9.4		9.2		470		210		1200		7.4		6.8		430		57		860		5.5		3.2		420		26		380		5.8		0.28	J	530		12		65	

Notes:

Yellow highlighting indicates the result exceeds the Vegetable Garden Cleanup Level

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit

Table A-1. Total Metals Results for Properties Less than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Side																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containimant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	Population	Garden Present (Y/N)	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual
[redacted]		N	16		34		680		410		4100		17		41		790		510		4500		11		12		700		180		1700		8		2.1	J	990		24		420	
		N																																								
		Y																																								
		Y																																								
		N																																								
		Y																																								
		N																																								
		N																																								
		N																																								
		N																																								
	Sensitive Population	N	10		8.6		790		170		1200		9.3		7.5		800		200		1100		8.2		3.2	J	790	J	53	J	470	J	4.8	J	4.1		660		58		550	
		N	5.8		4.4		480		65		550		6.7	J	4.2		690	J	44		560		4.3	J	1.5	J	490		25		240		9.1		0.26	J	420		11		61	
		N	9.2		6.5		740		90		860		8.6		3.5		610		87		490		6.7		3.2		970		32		440		7		4.7		990		36		630	
		N	10		8.5		980		90		1100		8.9		9.4		3400		150		2900		8		5		700		48		650		8.4		4.4		1400		48		1400	
		N	14		20		700		270		2300		7.1		1.4	J	650		26		190		10		2.1		470		42		250		8		4.9		430		32		590	
		Y																																								
		Y																																								
		N																																								
		Y	8.5		2.6		490		84		530		11		3		620		88		400		9.7		3.2		480		86		530		6		1.5	J	460		28		240	
		Y	8.9		8.7		830		210		1100		5.6		5.4		260		91		750		5.8		3		400		35		270		5.1		2		920		23		240	
		N	12		5.3		720		130		710		12		4.5	J	760		190	J	610		8.2		1.8	J	810		67		260		13		9.9		900		150		1300	
		N	7.6		2.1		520		75		330		9		6	J	570		150		800		10		4.9		1200		110		580		7		1.4	J	580		30		230	
		N																																								
		N																																								
		N	170		6.7		1300		58		630		46		13		2000		100		1400		29		4.2		420		98		530		11	J	5.5	J	2200	J	86	J	770	J
		N																																								
		N	11		4.4		520		100		530		9.3		1.9	J	840		66		250		8.8		2.9		430		63		380		7		4.5		670		120	J	620	
		N	11		10		560		290		1300		13		7.6		750		110		910		9.2		7.6		790		79		960		9.2		7.9		790		85		1300	
		N	7.8		0.6	J	640		15		130		8.1		0.95	J	850		72		170		8.5		3.3		820		29		500		7.5		3.1		790		25		370	
		N																																								
		N																																								
		N	22		1.4	J	620		23		150		7.7		0.7	J	240		19		130		8.1		0.61	J	210		15		130		15		17		490		130		13000	
		N	8.9		7.7		680		240		1000		8.7		6.8		1200		110		770		6.1		3.3		280		37		390		5.9		3.6		250		35		500	
		N																																								
		N	11		5.8		280		53		910		6		4.5		1100		19		460		7.2		3.3		1000		26		290		6.8		0.97	J	300		12		110	
		N																																								
		N	10		9.1		700		390		1200		11		18		970		580		2000		11	J	9.3	J	650		390		1400		21	J	3.6	J	1600	J	140	J	770	J
		N																																								
		N																																								
		N																																								
		N																																								
		N																																								
		N	16		46		910		400		5300		15		20		640		300		2900		15		15		630		260		2600		17	J	10	J	2100	J	200	J	1400	J
		N																																								
		N	40		9.5		1300		110		1100		19		3		890		64		410		13		1.2	J	1700		31		140		25		2.2		1000		43		230	
		N	8.7		2.8		690		44		390		11		3.8		970		43		480		12		3.2		790		49		410		11		5.4		890		35		630	
		N	11		6.9		1700		220		1300		12		9.9		420		170		1100		13		13	J	1100		230		1400	J	33		34		630		9700		77000	
		N																																								
		N																																								
		Y																																								
		N																																								
		N																																								
		N	20		35		860		330		2700		14		19		660		200		1900		6.9		11	J	740	J	150		1700	J	5.9		2.6		690		52		390	
		N																																								
	Sensitive Population	N	18		18		1100		350		2400		35		19		1200		630		7100		22		19		930		420		6900		13		7.5		580		140		1700	
		N																																								
	Sensitive Population	N	11		10		690		250		1300		11		9		1200		340		970		7.4		6.8		760		58		490		7.6	J	2.5	J	890		46	J	360	J
		N																																								
	Sensitive Population	N																																								
	Sensitive Population	N																																								
		N																																								
	Sensitive Population	N																																								
		N	11		10		660		310		2700		13		11		910		240		2100		7.8		4.3		760		120		1100		9.6		8.9		640		260		2600	
	Sensitive Population	N	9.7		8		630		180		1200		7.8		6.1		1200		130		1100		7.6		4.4		950		290		1300		8.5		5.6		860		130		1500	
		Y																																								
		N																																								
		Y																																								
		Y																																								
	Sensitive Population	N																																								

Table A-1. Total Metals Results for Properties Less than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Side																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containiminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]		N																																								
		Y	9.6		6.4		850		1600		810		8.7		7.5		1100		79		830		9.4		5		710		58		440		8.6		3.3	J	720	J	65	J	510	J
		N																																								
		N	23		54		1900		670		7100		10		13		1500		1200		1900		8		9.9		1200		170		1500		7.3		1.9		1000		49		280	
	Sensitive Population	N																																								
	Sensitive Population	N																																								
	Sensitive Population	N	7		5.6		670		49		590		7.4		2.1		450		22		280		7.1		1.6	J	830		21		300		8.2		2.5	J	1700		20		280	J
	Sensitive Population	N																																								

Notes:

Yellow highlighting indicates the result exceeds the Vegetable Garden Cleanup Level

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit

Table A-1. Total Metals Results for Properties Less than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Back																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containimant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	Population	Garden Present (Y/N)	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual
[redacted]		N	22		42		910		350		5200		18		22		760		240		3100		12		8.3		850		65		1200		9.3		2.3		560		22		330	
		N	22		21		760		240		2400		20		31		920		280		3100		35		18		2000		200		2500		27		12		2800		110		1200	
		Y	16		16		560		280		2400		23		20		1300		340		2700		26		8.3		1000		140		1200		19		6.1		420		71		880	
		Y	8		5.9		630		210		670		18		12		860		220		1500		15		12		810		500		1200		8.7		1.4	J	670		23	J	180	
		N	19		10		880		220		1300		23		12	J	1100		140		1300		12		2		930		18		360		7.1		0.93	J	930		16		280	
		Y	17		15		910		160		1800		29		13		830		130		1700		21		6.9		1300		64		850		12		2.5		690		43		390	
		N	8.3		2.1		610		53		380		9.7		3.5		880		110		660		9.2		5.6		1100		120		970		11		7.8		790		170		1100	
		N	10		26		500		320		3200		12		13		720		170		1400		7.5		3.8		870		50		430		7.3		2.1	J	1200	J	44		360	J
		N	9.4		2.5		1100		36		280		8.8		5		560		55		680		12		5.2		590		35		550		12		6.7	J	910	J	52		430	
		N	9.4		11		840		150		1100		10		5.6		960		85		800		8.5		3.7		790		53		490		7.2		0.67	J	860		21		150	
	Sensitive Population	N	8		2.8		490		210		440		11		4		650		180		660		10		20		670		340		2400		7.4		6.3		530		120		1000	
		N	5.3		2.6		520		32		290		6.8		2.9		440		40		400		7.5		2.5		360		26		360		3.4	J	2.6		320		14		350	
		N	8		5		790		62		590		10		6.5		700		82		940		10		6.8		720		67		850		11		7.6	J	880		60	J	1000	
		N	15		6.4		1100		76		640		8.6		0.82	J	640		18		140		8.2		1.8	J	880		23		230		10		2.8		800		44		500	
		N	10		6.9		440		72		860		11		4		640		34		430		12		7.2		1600		100		1000		8.1		7.5		840	J	42	J	960	
		Y	12		16		970		320		2300		12		14		760		290		2600		14		7.9		1500		200		1400		12		16	J	940		380	J	2400	J
		Y	25		14		890		260		2000		24		14		770		250		1900		28		7.8		640		470		1300		17	J	4.9		560		98		1100	J
		N	6.6		6.8		400		59		990		10		3.8		650		69		570		8.9		3.6		560		62		720		13		12	J	650		170	J	2500	J
		Y	14		3.4		920		84		570		12		4.3		690		71		650		6.5		1.5	J	520		47		220		5.7		1.2	J	390		38		220	
		Y	6.7		5.8		340		110		730		9.9		6.3		530		130		920		7.7		3		460		100		460		6.2		2.2		510		40		320	
		N	9.2		5.6		630		190		760		9.7		4.1		650		140		490		13		4		660		82		540		8		0.82	J	820		31		160	
		N	13		10		670		200		1100		12		6.7		570		160		960		12		6.2		670		220		950		8.4		3.3		640		92		490	
		N	9.9		4.8		750		250		780		8.6		1.7	J	580		55		260		6.3		0.46	J	580		15		100		6.2		1.1	J	680		34		170	
		N	8.1		4.7		590		78		620		8.6		3		1100		32		290		5.9		2.6		710		23		490		4	J	1.2	J	490		14		170	
		N	88		6.3		1400		63		640		44		4.8		1100		38		490		40		6.7		590		71		770		6.4		4.8		250		37		490	
		N	10		8.6		790		170		1400		8.4		5.9		800		460		1500		8.1		8.2		830		260		2100		7		1.5	J	580		26	J	260	
		N	9.4		8.8		710		210		1100		6.4		2.8		690		37		410		6.7		0.41	J	470		16		82		7.3		0.35	J	560		14		94	
		N	12		8.6		680		170		1300		8.8		2.6		680		38		320		6.5		1.2	J	710		17		210		9.5		0.89	J	610		22		150	
		N																																								
		N	9.3		6.1		950		68		700		10		4.1		1500		44		420		11		1.5	J	870		23		160		11		2.2		1100		37		280	
		N	11		9.2		910		140		1200		8.3		5		650		91		690		9.2		3.6		1000		53		550		7.1		5.7		1100		42		630	
		N	37		4.5		800		120		630		22		2.4		460		50		480		11		7.6		400		150		1100		10		7	J	1300	J	420	J	960	
		N	7.9		9.7		530		78		1200		5.1	J	4.3		390		46		570		3.7	J	1.4	J	190		19		150		4.8		1.8		410		20		190	
		N	12		9.5		920		140		1200		7		7.5		910		69		800		7.6		1.4	J	1000		27		190		6.9		1.8		350		56		320	
		N	12		6.1		630		57		790		10		7.3		660		67		820		14		7.1		700		61		990		9.5	J	4.9	J	480	J	34	J	550	J
		N	9.6		6.3		440		1300		1100		11		6.9		800	J	210		820		9		2.6		590		89		420		10		3.6		350		71		590	
		N																																								
		N	11		9.4		530		220		1200		18		14		3200		220		1500		10		7.7		920		130		1100		8		1.9	J	980		48		310	
		N	9		11		510		490		1500		11		7.4		450		170		1100		7.9		2.2		190		69		330		10		2.5		6100		61		230	
		N	8.4		6.6		620		170		990		6.2		3.8		260		78		630		9.6		8		1100		180		890		6.6		3.7		1200		52		410	
		N	15		19		760		510		2400		13		16	J	900	J	590	J	2300	J	9.2		4.5		1000		150		600		11		6.6		980		150		890	
		N	13		22		690		530		2700		9		13		450		290		1600		12		6.5		570		330	J	1100	J	15		12		1600		230		1300	
		N	20	J	60		960		800		6000		11		17		600		390		2300		14		14		700		1900		3600		11		11		530		380		2700	
		N																																								
		N	25		5.8		590		120		610		9.9		8.6	J	1000		200	J	1100	J	25		5.2		910		81		670		12		3		810		31		370	
		N																																								
		N																																								
		N	13		20		600		270		2300		14		17		990		260		3500		12		7		670	J	190	J	980		13		5.7		910		150		760	
		N	19		8.2		940		310		980		21		9.1		770		430		1500		12		9.4		1100		320		1400		11		7.2		1000		290		1200	
		Y	22		20		1300		380		1900		15		8.6		920		210		1100		14		5.5		1000		270		710		24	J	2.2		1500		180	J	390	J
		N	6.8		5.5		1100		93		700		5.7		4.1		1100		99		610		16		7.3		830		210		710		5.7		3		1300		34		730	
		N	13		5.6		920		110		800		15		9.4		900		170		1200		12		4.4		920		120		730		25		8.7		800		200		1200	
		N	11		15		630		240		1800		10		18		550		240		2200		11		12		730		220		1800		11		18		500		230		1700	
		N	170		0.71	J	200		16		100		150		2.2		650		27		200		140		2		680		30		210		130		3.7		760		49		510	
	Sensitive Population	N	21		26		840		490		5000		19		14		750		410		2300		21		11		750		550		3400		15		4.6		1400		170		1400	
		N																																								
	Sensitive Population	N	18		6.4		730		180		1300		16		6.2		800		140		940		19		4		1400		55		650		14		1.3	J	940		22		210	
		N	15		29	J	720	J	570	J	3400	J	12		10	J	930		230	J	1300	J	8.2		2.2		720		49		460		8.6		11		1400		95		1300	
	Sensitive Population	N	3.8	J	1.8	U	210		4.3	J	19		8.3		2.4		950		85		900		8.5		6.2		950		160		1400		8.2		4.1	J	990		98	J	1200	J
	Sensitive Population	N	16		12		580		270		1600		17		7.6		740		350		1300		16		5.8		1100	J	140		780		8.2		3.6		530		90		480	
		N																																								
	Sensitive Population	N	13		8.8		620		220		1300		17		8.2		880		300		1200		6.7		3.2		1100		74		470		6.8		2.5		710		460		420	
		N																																								
	Sensitive Population	N	12		8.9		390		200		1300		11		7.6	J	1700	J	200		1200	J	12		18		990		370		3600		6.8		2.2		1100		51		400	
		Y	11		7.3		540		140		940		10		6		530		200		890		8.4		2.9		260		43		470		9.1		4.4		440		48		530	
		N	11		6.3		960		160		720		11		5.4		620		86		670		11		5.1	J	640		52	J	630	J	10		2.3		780		45		310	
		Y	18		41		1200		330		3200		18		22		1100		320		2700		18		18		1500		460		2400		9.7	J	11	J	1500		95		1500	
		Y	14		11		960		300		1700		17		12		660		240		2200		15		10		850		230		2100		14	J	8.1	J	800		120		1200	
	Sensitive Population	N	16		17		850		890		2000		16		13		950		300		1500		17		9.3		530		340		1300		12		13		440		280		1500	

Table A-1. Total Metals Results for Properties Less than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Back																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containiminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]		N	13		4.2		470		45		550		11		5.1		590		39		620		8.3		1.5	J	1100		23		190		16	J	3.6	J	1700		30	J	330	
[redacted]		Y	7.6		6.4		600		820		830		9.4		7.2		970		120		770		8.9		7.2		730		130		660		17		4.1		1100		310		690	
[redacted]		N	9.8		5.7		680		55		660		8.2		4.1		600		45		550		8.8		3.5		750		59		450		8.6		2.5		600		31		440	
[redacted]		N	15		15		1000		600		2200		19		19		1200		250		2800		20		20		1200		190		2800		8.6		1.6	J	770		38		290	
[redacted]	Sensitive Population	N	11		15		1200		1100		1700		12		15		1300		250		1800		6.6		7.1		1400		270		1300		7.5		5.9		2700		160		820	
[redacted]	Sensitive Population	N	14		1.4	J	480		21		190		11		3.2		620		35		460		7.5		1.3	J	740		17		180		10		0.75	J	1600		23		110	
[redacted]	Sensitive Population	N	14		3.6		1200		43		460		8.8		2.2		980		28		250		13		5.6		1200		42		640		9.4		1.7		1600		25		230	
[redacted]	Sensitive Population	N	10		8.9		610		120		1200		7.3		3.1		550		44		390		8.2		2.3	J	510		28	J	340	J	11		5.6		1200		48		610	

Notes:

Yellow highlighting indicates the result exceeds the Vegetable Garden Cleanup Level

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit

Table A-2. Total Metals Results for Properties Greater than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Garden																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Contaiminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	Population	Garden Present (Y/N)	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual
[redacted]		N																																						
		N																																						
		N																																						
		N																																						
		N																																						
		N																																						
		N																																						
		Y	14		4.7		1100		100		590		24		5.8		710		130		840		23		7		760		97		1100		23		8.8		620		130		1200	
		N																																						
		N																																						
	Sensitive Population	N																																						
		N																																						
		N																																						
		N																																						
		Y	12		4.2		660		80		680		15		5.2		850		100		870		15		3.8		770		63		640		10		0.81	J	610		22		160	
		N																																						
		N																																						
		N																																						
		N																																						
		Y	110		6.5		670		480		960		46		9		720		790		1300		22		8.5		900		150		990		14		5.8		360		160		740	
		N																																						
		N																																						
		N																																						
		N																																						
	Sensitive Population	N																																						
		N																																						
		Y	7.3		2.6		290		82		310		11		5.8		640		170		660		11		5.1		840		120		570		14		4.5		840		110		1200	
		Y	15		12		1000		260		1600		14		13		1000		200		1800		13		16		930		190		2100		9		6.7		760		120		1400	
	Sensitive Population	Y	4.8		0.33	J	510		8.7		55		4.8		0.4	J	640		10		68		5.7		0.46	J	920		13		76		5.4		0.84	J	1400		16		110	
	Sensitive Population	Y	6.3		0.97	J	510		17		290		9.6		0.41	J	750		17		91		5.9		1.7	U	180		9.8		75		7.2		0.42	J	510		16		210	
		Y	7.2		1.4	J	530		26		190		7.7		2.1		720		29		220		6.3		1.7	J	380		23		240		7.9	J	3.8	J	600	J	36	J	480	J
		Y	6.9		0.85	J	770		16		120		8.2		0.5	J	390		12		82		7		0.58	J	800		12		85		4.9	J	0.55	J	430		10		83	
		N																																						
		N																																						
		Y	6.6		0.68	J	390		15		100		5.5		0.56	J	390		14		97		7.5		1.6	J	570		17		150		7.8		1.2	J	890		18		130	
		N																																						
		N																																						
	Sensitive Population	N																																						
		N																																						
		N																																						
		N																																						
		N																																						
		N																																						
		Y	7.8		3.4		650		190		470		14		8.2		1200		130		950		12		6.2		1900		120		550		9.7		3		1700		34		290	
		N																																						
		N																																						
		N																																						
	Sensitive Population	N																																						
		N																																						
	Sensitive Population	N																																						

Notes:

Yellow highlighting indicates the result exceeds the Vegetable Garden Cleanup Level

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation

Table A-2. Total Metals Results for Properties Greater than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section A																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containimant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	Population	Garden Present (Y/N)	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual
[redacted]		N	9.2		12		420		210		1600		16		21		1100		510		4600		17		17		390		300		3000		6.6		6.8		390		73		750	
		N	18		29		590		120		7100		9		12		860		110		1200		8.2		8.4		850		52		1300		8.5		2.8		520		25		490	
		N	18		51		2200		500		3200		18		25		1200		390		3100		10		6.4		1500		87		850		10	J	10	J	920		160		1400	
		N	22		18		1200		310		2500		11		5.1		1200		170		800		9.5		5.4		740		330		940		12		5.4		740		190		940	
		N	8.5		6.6		930		260		1100		11		5.1		860		150		950		5.1		2.8		830		110		600		6.3		3.6		900		78		510	
		N	10		11		610		270		1600		6.1		4.1		510		110		640		4.7	J	2.5		590		45		400		5.9		2.6		790		51		380	
		N	20		7		590		71		1100		16		6.4		610		55		710		26		8.4		540		74		1200		21	J	6.2		900		54		770	
		Y	13		4.2		1000		140		1000		11	J	4.4	J	530		130	J	1100	J	8		3.5		890		96		800		8.9		5.7		970		250		2100	
		N	9.3		11		730		150		1400		13		12		830		200		2500		14		9.2		920		120		1300		11		4.3	J	830		95	J	720	J
		N	11		18		670		300		3400		8.7		8.7		800		180		1900		11		11		1000		250		2400		10		14		860		150		2400	
	Sensitive Population	N	8.6		11		800		200		1500		7.5		6.4		800		50		780		9.5		6.8		1800		160		900		7.9		2.7	J	720	J	62	J	350	J
		N	8		3.7		750		46		440		8.2		3.4	J	860	J	42		470	J	6.2		0.96	J	590		14		130		9.6		1.9	J	640		30		320	
		N	4.6	J	3.3		150		27		310		8.7	J	8.4	J	420		160		990		7.8		1.5	J	44		48		140		4.8		0.99	J	290		14		97	
		N	19		12		1200		1500		1600		23		13		1300		840		1800		12		6.1		1100		120		840		23		1.2	J	2500		76		230	
		Y	18		6		900		97		850		11		3.3		630		130		550		8.6		3.3		690		54		570		7.8		0.68	J	730		16		210	
		N	9.3		2.6		610		60		430		13		4.1		510		120		820		10		3.4		630		59		570		7.9		7.4	J	520		96	J	1100	J
		N	8.5		11		490		330		1400		4.2	J	2.5		100		35		320		4.4		4.4		300		33		580		6		11		430		83		1400	
		N	15		17		750		190		2200		11		9.3		580	J	120		1500		12		4.9		540		63		830		12		4.8		610		66		1300	
		N	12		12		1000		140		1500		8.8		4.6		250		380		2600		8.4		8.1		950		180		2500		10		4.6		580		430		2800	
		Y	12		21		1300		260		2300		6.8		7.4		480		120		1100		4.4	J	3.5		200		51		670		6.7		1.6	J	310		28		430	
		N	9.7		20		650		4200		2900		7.4		6.5		490		650		3000		7.8		4.1		390		280		1400		4.9		3		540		160		1000	
		N	18		33		780		360		4100		7.4		2.3		570		120		360		10		170		520		520		15000		13		12		670		630		2000	
		N	22		44		2100		310		3800		16		24		670		390		3400		9.7		8.6	J	630		110	J	1800	J	11		4.3		670		170		1100	
		N	11		3.4		1200		76		280		10		3.7		320		57		380		10		1.3	J	340		56		370		12		2	J	940	J	35	J	160	J
	Sensitive Population	N	26		140		1600		880		13000		16		17		1400		930		4000		77		3.2		120		340		920		8.4		13		1000		410		3600	
		N	8.1		3.9		430		57		510		16		4.4		1300		51		460		10		3.8		750		31		460		6.4		1.2	J	300		16		210	
		Y	13		8.4		1400		89		970		12		4.4		1300		50		660		3.8	J	1.3	J	280		37		140		9.3		1.7		490		24		210	
		Y	9.3		13		800		190		1700		14		23	J	1100	J	580	J	3400	J	8.7		4.8		760		61		680		5.6		0.63	J	1200		23		110	
	Sensitive Population	Y	5.6		0.49	J	890		13		71		8.6		0.57	J	650		12		140		7.5		1.6	U	560	J	10		40		8.2		1.6	U	590		12		58	
	Sensitive Population	Y	9.2		0.32	J	820		12		56		7.4		1.8	U	360		8.7		52		8.2	J	1.5	U	630		12	J	55	J	7.5		1.6	U	470		14		50	
		Y	7.1		0.89	J	530		17		150		6.5		1.2	J	450		16		180		7.9		1.9		650		24		290		6.7		2.3		360		22		320	
		Y	7.4		0.99	J	760		18		150		7.4		0.87	J	590		14		120		12		0.86	J	1100		16		97		7.1		1.8		400		24		280	
		N	8.5		1.2	J	500		19		210		8.7		1.4	J	900		18		180		7.3		1.2	J	580		15		190		10		5	J	760		38		590	J
		N	13		2.1		3400		37		220		7.2		1.1	J	450		15		160		7.5		4.3		720		38		530		7.3		2.8		500		25		370	
		Y	8.6		0.97	J	550		20		110		7.7		1.1	J	740		18		120		6.1		1	J	680		16		120		2.9	J	1	J	970		10		77	
		N	6.6		1.8		500		19		230		7.2		1	J	380		16		160		7.3		1	J	500		16		140		7.5		0.98	J	810		12		120	
		N	7.4		1	J	1100		18		130		9.7		1.5	J	1200		28		180		9		1.5	J	1200		22		160		7.5		2.2	J	1100	J	25		270	
	Sensitive Population	N	9.9		1.1	J	1100		21		160		10		3.4		1400		37		410		8.4		2.5		750		34		370		11	J	3.6	J	860		36		380	
		N	8		2.1		730		38		290		7		2.2		680		34		300		7.3		0.83	J	670		17		130		7.9		0.9	J	550		26		170	
		N	6.9		1.8	J	490		28		240		12		2.2		580		28		260		9.4		2.3		520		39		390		11		2.4		1300	J	26		290	
		N	11		1.2	J	400		19		190		9.5		2.2		1200		22		180		9.4		5.4		860		38		550		8.8		4.3		550		36		500	
		N	17		19		730		460		4300		8.2		66		540		140		15000		8.9		6.6		950		95		2300		8.2		6.6		660		110		3800	
		N	12		13		600		410	J	7200	J	13		22		510		450		7600		17		18		600		300		7100		7.1		13		750		130		3600	
		Y	11		8		520		130		1200		15		13		700		130		2300	J	18		11		830		260		2500		9.4		9.1		800		100		3000	
		N	8.7		2.7		490		36		370		11		3.4		410		38		500		12		1.4	J	510		22		240		11		0.4	J	550		16		98	
		N	71		3		440		28		340		65		6		690		46		590		33		3		530		27		370		23		0.89	J	960		18		140	
		N	7.8		1.7	J	510		45		320		9.3		1.9		710		21		250		12		5.5		910		65		1300		11		1.8	J	820		29		390	
	Sensitive Population	N	11		7.9		1000		220		1700		20		14		1500		510		4300		15		8.5		970		240		2500		10		7.9		870		220		1500	
		N	9.3		7.6		890		110		1100		8.3		8.6		1000		180		1500		22		82		1200		790		7700		7.4		2.2		780		43		300	
	Sensitive Population	N	13		14		1600		160		1400		23		2.3		1600		44		430		13		3.6		1300		39		810		13		4.4		3900		26		180	

Notes:

Yellow highlighting indicates the result exceeds the Vegetable Garden Cleanup Level

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation

Table A-2. Total Metals Results for Properties Greater than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section B																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containimant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	Population	Garden Present (Y/N)	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual
[redacted]		N	9.1		4.7		290		59		470		7.7		8.9		450		86		1100		10		22		370		180		1600		15	J	3.3	J	430	J	430		440	J
		N	18		68		870		440		4400		14		43		1000		220		2700		9.7		26		1200		170		3200		9.7		8.3		1200		76		1100	
		N	12		19		840		430		2500		7.5		4.4		690		76		580		13		11		500		130		1300		11		3.2		1300		51		450	
		N	10		9.5		550		210		1100		11		5.9		740		160		890		6.6		6.3		840		120		690		8.9		3.1		980		100		610	
		N	8.5		4.9		950		150		920		16	J	6.2	J	1500	J	91	J	1000	J	16		6.5		800		110		920		9		8.3		620		160		1600	
		N	23		23		1200		670		2900		7.7		7.7		1000		220	J	860	J	4.4	J	1.9	J	500		69		270		8.6		7		920		170		990	
		N	11		5.7		880		51		650		12		3.3		650		35		380		29		7.2		720		88		1100		16		4.1		800		58		540	
		Y	8.9		2.8		650		79		490		10		2.3		800		62		380		10		1	J	530		28		220		9.9		5.5		580		240		1800	
		N	16		28		790		460		3700		9		12		630		180		1700		8		3.9		590		90		670		7.2		3.3		450		61		510	
		N	12		9.7		810		180		1700		11		13		540		500		4800		8.6		12		490		190		1800		9.1		2.7		380		52		440	
	Sensitive Population	N	8.1		4.9		460		110		650		13		18		550		450		2100		10		10		470		94		1200		8.7		7		640		130		860	
		N	6.7		2.4		390		38		360		8		2.5		490		31		380		6.8		0.92	J	360		11		140		6.3		0.61	J	250		11		160	
		N	9.2		2.8		510		75		380		14		3.5		390		74		380		7.3		1.5	J	120		20		170		1.8	J	0.91	J	100		12		99	
		N	16		9.6		1300		380		1400		19		8.6		2100		320		1000		16		3.7		1600		110		480		18	J	5.5	J	1300		180	J	700	J
		Y	6.5		4.2		1000		72		560		20		6.7		1400		95		860		16		5.1		930		120		820		11		2		630		40		350	
		N	8.8		3.6		930		51		490		22		4.3		790		74		620		8.3		4		680		61		620		7.5		3		440		38		410	
		N	4	J	4.8		340		51		500		6.4		13		1200	J	160		950		5.3		5.7		340		61		570		7.9		11		410		68		900	
		N	15		16		1200		130		1500		14		20		1900		64		720		9.7		2.6		630		33		320		7		1.2	J	610		25		240	
		N	15		17		720		930		2600		15		16		820		290		11000		11		8.5		570		130		3400		10		6.2		870	J	470		3400	
		Y	10		21		860		480		2200		8.5		16		1100	J	320		1700		6.4		4.5		380		100		620		5.1		2.2		310		50		340	
		N	8		10		570		180		1100		11		9.9	J	1000	J	240		1200		10		19		600		220		2400		7.1		6		520		150		860	
		N	19		38		930		1500		3200		13		13		870		200		1700		11		4.7		720		140		1000		13		6.7		740		320		2000	
		N	15		23		1300		210		2300		15		13		1400		350		1600		13		4.3		860		520		1500		8.4		3.7		720		54		480	
		N	6.2		2.9		480		99		360		7		1.9	J	1400		55		210		6.4		2.1	U	850		30		71		6.6		1.6	U	760		19		62	
	Sensitive Population	N	18		35		540		410		3300		12		18		440		300		3500		8.6		7.1		290		250		2300		12	J	10	J	940	J	340		3400	J
		N	8.8		2.7		460		49		720		10		5.8		560		57		2500		9.2		4.5	J	430	J	53	J	2100	J	7.9		2		400		22		690	
		Y	38		5.5		610		89		670		20		3.3		670		53		410		13	J	3	J	950	J	28	J	450	J	13		3		1100		27		490	
		Y	13		19		940		370		3000		14		12		800		260		2600		15		7.9		1000		280		2700		10		9.4		1500		180		2600	
	Sensitive Population	Y	6.2		1.7	U	410		9.3		47		7.1		1.9	U	380		10		42		8.6		1.9	U	370		11		44		6.3		1.1	J	910		16		140	
	Sensitive Population	Y	8.1		0.49	J	420		17		270		6.5		0.31	J	270		11		100		14		0.6	J	1900		18		70		7.2		1.8	U	240		8.3		54	
		Y	10		0.97	J	1600		26		140		7.4		0.83	J	320		13		140		8.6		0.91	J	610		19		140		7.2		1.6	J	430		20		220	
		Y	6		0.66	J	560		15		150		6		0.7	J	470		16		140		9		1.5	J	1400		24		170		5.6	J	1.6	U	160	J	8.4		48	
		N	7.6		1.7	J	520		19		260		7.8		0.83	J	520		17		130		7.8		1.3	J	510		18		200		7.1		1.9		500		20		240	
		N	7.8		1.4	J	380		18		210		7.6		0.52	J	360		13		100		9.8		0.65	J	420		15		130		8.2		1.3	J	860		16		150	
		Y	8.1		0.77	J	720		27		120		6.2		0.72	J	480		18		100		6.1		0.85	J	710		12		84		8		0.41	J	430		14		60	
		N	7.4		2		510		23		270		6.7		0.69	J	350		13		120		6.7		0.69	J	390		13		120		9.9	J	1.4	J	810	J	17		160	J
		N	7.7		0.7	J	530		14		120		8.6		1.2	J	550		18		170		8.7		1.1	J	720		17		140		9.5		1.5	J	860		18		170	
	Sensitive Population	N	9		0.71	J	840		18		110		10		0.55	J	990		14		83		13		0.77	J	1000		15		95		13		3		900		33		360	
		N	9		4.7		1000		95		440		8		2.8		580		27		250		9.4		2.4		1800		27		210		9.7		2	U	530		13		57	
		N	8.3		1.7	J	480		27		230		7		1.7	J	960		22		210		8.9		1.9	J	670		26		240		7.3		2.3		590		23		280	
		N	9.9		1.4	J	750		22		180		6.4		1.4	J	330		20		210		7.6		2.1		420		23		270		6.1		1.2	J	520		18		130	
		N	8.6		1.9		370		32		330		10	J	7.4	J	470	J	220	J	1500	J	8.5		5		530		130		880		6.3		2.4		360		41		460	
		N	11		22		570		460		2900		11		3.8		1100		75		720		9.1		6.7		420		230		2100		9.9		2.9		1200		61		670	
		Y	14		13		670		180		1500		13		9		840		190		1200		16		7.8		1400		190		1100		5.8		3.7		830		45		510	
		N	7.1		2.3		540		62		300		17		4.1		680		51		570		11		2.2		1300		36		290		8.6		0.72	J	1200		28		130	
		N	89		3.6		470		42		440		61		3.1		1300		27		350		45		12		2200		48		1200		8.7		2.7	J	590		19	J	350	J
		N	20		5.3		680		610		830		16		3.2		1100		48		390		14		4.5		860		160		740		10		2	J	760		47		350	
	Sensitive Population	N	7.2		5		820		34		680		6.7		4.6		810		34		640		17		6		1400	J	200		1400		7		8.7		1100		170		1400	
		N	9.3		8		960		670		1100		18		24		860		350		2100		9.4		4.2		1100		200		1000		11		1.7	J	630		62	J	300	J
	Sensitive Population	N	15		13		1200		150		1500		13		4.8		1100		41		490		90		1.1	J	1100		46		150		12		1.9		4400		29		160	

Notes:

Yellow highlighting indicates the result exceeds the Vegetable Garden Cleanup Level

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation

Table A-2. Total Metals Results for Properties Greater than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section C																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containimant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	Population	Garden Present (Y/N)	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual
[redacted]		N	21		17		1100		100		2000		13		15		1000		120		2100		12		2.5		1400		37		350		8		1.3	J	250		17		260	
		N	26		42		1000		470		4000		17		49	J	1300		340		3900	J	17		29		2500		190		2400		9.9		13		690		170		1500	
		N	25		14		1400		390		1600		24		8.4		890		170		1200		11		2.2		550		61		350		10		4.3		830		300		520	
		N	9.8		5.8		800		110		880		17		15	J	1100	J	260		3000		29		14		490		4300		2500		16		12		840		110		2000	
		N	13		5.2		1400		67		670		18		9.8		1400		150		1300		13		3.3		2100		66		510		3.2	J	1.1	J	1000		42		250	
		N	8.1		6.3		330		29		720		12		8.7		610		250		1200		9.3		6		720		120		1000		12		9.8		980		130		1400	
		N	10		6.8		590		100		860		9.4		5.4		640		88		750		11		2.8		790		48		340		9.6		1.4	J	460		24		180	
		Y	9.5		2.8		790		61		380		8.6		2.1		760		54		390		9.5		1.2	J	480		36		270		10		1.8	J	540		55	J	300	J
		N	19		26		660		320		3000		11		4.6		610		79		720		12		8.7		610		170		1300		8.6		7.1		580		190		1200	
		N	8.1		5		510		120		810		8.6	J	5.3	J	740	J	110	J	700	J	11		20		1000		240		2300		12		16		1300		120		1300	
	Sensitive Population	N	7.9		8		930		160		740		9.6		11		450		93		1300		13		14		1000		140		1500		14		15		1300		250		1700	
		N	7.5		2.7		530		30		360		6.6		1.9		480		24		300		6.9		1.7		420		20		230		9.9		6.7	J	1100	J	54	J	660	J
		N	13		3		990		25		200		6.3		4.8		690		33		470		6.2		4.4		470		35		570		6.1	J	4.9	J	450		37	J	620	
		N	19		15		1500		1100		1800		17		7.3		1900		310		950		14		4.8		1700		380		630		10		0.68	J	1500		21		130	
		Y	11		8.3		670		100		830		15		9.6	J	920		210	J	1400	J	12		5.8		650		150		790		9.6		0.36	J	390		15		90	
		N	8.6		5.9		610		100		780		11		2.8		700		34		410		8.1		4.4		500		49		550		8.1		2		600		25		260	
		N	13		10		1200		130		640		9.7		5.5		370		88		690		6.4		3.1		300		37		350		6.5		5.1		380		51		650	
		N	14		13		1800		210		2300		13		7.6		960		66		920		7.5		2.7		410		43		570		14	J	5.4		910	J	88		1300	
		N	12		8.8		730		290		1800		12		12		710		200		2300		8.8		6.7		490		130		1400		8.6		4.8		490		77		990	
		Y	16		13		1100		250		1500		12		13		870		200		1500		7		6.9		460		84		870		8.5		8.7		850		200		1100	
		N	15		15		1800		210		1400		8.7		6.8		530		220		1200		6.9		3.7		500		110		670		8.5		4.3		790		170		700	
		N	4	J	1.8	J	150		25		150		4.4	J	0.86	J	470	J	22		260	J	10		5.9		550		140		930		13		11		750		420		3200	
		N	14		21		850		550		2000		18		15		900		290		1800		19		12		980		300		2100		16		8.4	J	970		230	J	1500	J
		N	14		41		910		410		3600		13		8.9		790		130		1500		9.6		5.4		1100		130		790		9.2		0.81	J	420		23		140	
	Sensitive Population	N	22		50		1100		1700		6400		21		54		870		830		5400		9.6		14		490		320		3900		17		15		720		1500		4100	
		N	18		6.3		1800		110		610		9.9		2.6		920		33		340		11		1.4	J	600		31		170		10		1.6		980		44		200	
		Y	9.9		4.4		650		63		530		15		3		640		32		420		8.7		1.1	J	2400		29		99		11		3.7		640		50		510	
		Y	6.7		7.6		710		80		1100		8.6		24		960		88		2900		7		16		720		64		2000		8		3.9		620		90		920	
	Sensitive Population	Y	8.6		1.7	U	400		12		52		4.2		0.25	J	520		8.9		42		7.1		1.9	U	490		11		54		7.7		1.8	U	500	J	11		46	
	Sensitive Population	Y	7.1		1.8	U	500		12		71		8.2		0.33	J	500		13		110		7.9		0.3	J	720		14		65		8.7		1.6	U	660		12		55	
		Y	11		1.1	J	550		18		210		7.4		0.68	J	830	J	12		110		8.7		0.41	J	470		12		93		8.2		0.64	J	390		14		120	
		Y	6.8		0.86	J	1400		19		110		7.4		0.62	J	640		13		82		3.3	J	0.48	J	170		9.2		75		6.6		1	J	600		14		130	
		N	7.8		0.72	J	570		13		120		12		0.39	J	1600		22		75		7.6		0.68	J	750		21		120		5.4		0.48	J	380		12		95	
		N	9.2		0.39	J	590		11		72		9.1		0.44	J	400	J	11		100		7.6		1.1	J	560		14		150		8.3		1.6	J	1300		22		190	
		Y	9.2		0.87	J	740		19		96		7.4		0.89	J	1500	J	13		75		6.7		0.63	J	670		13		84		12		1.4	J	2300		15		96	
		N	7.1		1.9		380		22		290		8.7		0.93	J	590		17		140		8.6		0.57	J	490		14		93		11		2.6		900		34		350	
		N	8.7		0.58	J	840	J	16	J	100		6.6		0.76	J	320		12		150		8		1	J	1100		17		120		7.5		3.2		710		30		380	
	Sensitive Population	N	8.3		2.2		650		30		270		10		2.1		810		30		260		9.8		1.3	J	810		14		160		8.4		3.7		840		29		370	
		N	9.1		2.8		460		40		330		8.8		1.5	J	370		25		210		9.1		2.9	J	1000	J	30	J	280	J	6.9		0.89	J	600		16		150	
		N	9.8		1.2	J	1700	J	23		160		8.1		0.95	J	550		16		150		8.6		2.4		650		22		280		7		4		540		38		510	
		N	7.6		0.98	J	670		19		130		9		0.5	J	280		8.8		81		7.2		4.1		480		46		490		9.9		6.2		1700		47		570	
		N	6.6		1.1	J	570		32		130		8		5.6		360		170		1300		13		8.3		800		150		1800		11		3.7		460		81		930	
		N	11		11		570		180		1500		15		6.1		670		130		960		13		3.1		560		79	J	500		8		0.37	J	550		15		110	
		Y	13		13		710		240		1600		12		4.7		460		63		730		18	J	5.5	J	830		47		650		10		5.9		4200		35		570	
		N	9.5		2.8		360		48		400		17		2.9		590		47		440		18		2.5		660		42		410		10	J	0.53	J	460		16	J	120	
		N	180		9.6		1000		590		1400		17		0.9	J	420		15		160		39		2.5		390		18		350		19		1.5	J	480		23		230	
		N	8.1		3.1		410		80		540		13		5.2		920		96		850		10		2.9		710		74		630		10		2.3		950		55	J	410	
	Sensitive Population	N	8.6		5		910		66		730		13		1.7	J	840		60		460		13		8.4		500		290		3400		10		7.3		1100		110		1100	
		N	11		10		1500		300		1300		9.8		6.9		590		380		1400		7.9		6.6		690		200		1100		7.3		3.1		570		91		580	
	Sensitive Population	N	15		14		1100		230		2300		18		12		2000		190		1900		26	J	9		3700	J	270		2000		19		2.5		2000		52		340	

Notes:

Yellow highlighting indicates the result exceeds the Vegetable Garden Cleanup Level

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation

Table A-2. Total Metals Results for Properties Greater than 5,000 Square Feet

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section D																																							
		Depth, inches	0-6										6-12										12-18										18-24									
		Contaiminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	Population	Garden Present (Y/N)	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual	Res	Qual
[redacted]		N	22		19		920		160		2300		25		12		790		82		1600		12		4		660		38		630		15		1.6	J	2500		31		280	
		N	43		110	J	960	J	1100		9200	J	26		31		980		480		1900		11		2.7		490		130		390		16		7.1		900		120		1200	
		N	21		14		700		230		1600		28		12		840		730	J	1900		19		5		1500		96		590		11		3		710		39		400	
		N	14		11		770		250		1400		9.1		2.7		560		28		370		11		1.3	J	1300		27		190		11		1.3	J	2200		17		200	
		N	13		6.1		690		130		860		15		7.1		1100		140		920		7.6		2.9		1200		42		490		13	J	8.1	J	950		140	J	1100	J
		N	11		14		660		290		1700		11		12		630		340		1900		13		12		760		290		1800		10		9	J	690		600	J	1200	
		N	1.3		0.62		80		11		87		11		9.8	J	1300	J	170	J	950		8.5		1.6		980		61		260		14		1.9		1400		48		230	
		Y	9.4		2.5		640		62		390		13		3.2		530		63		500		14		2.8		660		49		440		11		2		600		37		320	
		N	18		13		640		190		1900		26	J	16	J	1900	J	180		2000		13		7.7		870		130		1300		9.7		6.9		490		170		1300	
		N	12		18		700		380		3600		10		13		610		120		1300		7.9		4.1		890		230		610		7.7		2.2		670		52		320	
	Sensitive Population	N	8.1		8.3		470		120		880		23		19		1100		280		1800		5.9		3.9		570		31		410		7		3.4		640		22		280	
		N	5.5		2.5		920		37		290		5.1		1.5	J	300		17		200		3.8	J	0.84	J	280		12		120		6		2.4		600		29		300	
		N	8.1		7.1		280		93		970		4.8		4.7		300		36		570		3.3	J	1.4	J	400		17		180		6		5		360		49		670	
		N	17		9.9		1700		360		1300		14		5.4		1800		200		830		13		3.7		1700		110		590		13		3.3		1900		100		460	
		Y	8.9		4.5		650		150		750		10		5.6		970		74		750		9.1		4.7		840		70		720		8.9		0.82	J	500		28		170	
		N	9.4		4.3		870		79		600		8.4		2.6	J	630		49		420	J	5.2		1.1	J	300		52		170		11		4.3		610		140		640	
		N	8.7		9.3		410		110		1100		8.6		3.2		920		40		430		7.3		2.7		270		37		320		6	J	3	J	320		54	J	370	J
		N	12		11		680		160		1600		13		10		540		260		1900		8.1		4		750		42		670		9.4		4.2		420		75		1300	
		N	13		17		1500		350		2400		13		14		750		280		2500		12		17		1300		220		2300		12		8.3		2000		150		1200	
		Y	15		12		1200		360		1300		14		8.6		1300		170		1000		10		12		850		130		1400		6		5.5		370		140	J	680	
		N	11		12		750		280		1300		11		5.5		1100		470		610		9.5		3.7		460		280		940		11		1.7	J	1900	J	96	J	340	J
		N	16		24		720		690		4200		24		19		1100		150		1800		11		14		490		190		2200		8.8		5		540		81		540	
		N	12		11		530		520		1500		13		6.2		560		94		910		17		12		800		280		2100		12		1.1	J	520		17		310	
		N	17		26		850		640		3000		11		14	J	700		240	J	1600		11		0.83	J	810		29		130		10		1.1	J	490		18		300	
	Sensitive Population	N	10		13		1100		300		2600		12		14		980		350		2900		11		10		740		380		2300		10		5.2		490		70		880	
		N	8.1		8.2		730		400		1200		22		15		780		370		1500		8.9		7.5		380		66		1000		16	J	1.4	J	2400	J	24		160	
		Y	19		6.3		890		83		770		16	J	7.2	J	1600	J	91	J	790	J	8.3		3.8		760		24		470		9.8		3.3		530		29		480	
		Y	11		13		1800		200		2100		11		13		1200		92		1300		5.7		3.2		370		46		570		10		9.5		670		110		1600	
	Sensitive Population	Y	7		0.43	J	630		14		70		5.9		0.42	J	640		11		69		5.2		0.89	J	1100		15		120		4.8		1.2	J	1500		14		140	
	Sensitive Population	Y	8		0.97	J	760		18		240		4.1		1.6	U	190		8.6		92		10		0.65	J	1300		20		100		12		1	J	430		25		440	
		Y	6.2		0.72	J	560		14		100		6.4		0.79	J	330		14		140		6.7		3.4		370		28		420		7.2		5.2		450		34		590	
		Y	6.8		0.82	J	530		15		120		6.1		0.88	J	490		13		120		6.6		3.6		490		28		400		5.3		3.1		380		25		400	
		N	10		0.48	J	940		16		100		6.1		0.38	J	420		10		80	J	7.2		1.4	J	420		17		210		7.7		4		1100		31		450	
		N	8		1.9		370		22		290		7.4		2.1		370		23		300		6.8		3.7		370		30		470		7.5		3.4		480		29		450	
		Y	8.5		0.77	J	600		18		110		6.7		0.63	J	470		14		91		7.4		1.3	J	460		20		180		6.6		2.9		420		26		320	
		N	6.5		1.8		270		20		280		11		1.6	J	1600		19		200		6.5		3.3		350		31		430		7.6		5.2		610		49		620	
		N	8		0.7	J	550		14		110		7.7		2.1		540		22		270		6.7		3.1		870		28		370		7.6		3.8		800		32	J	450	
	Sensitive Population	N	7.4		0.9	J	560		16		140		6		1.7	J	600		18		190		9.6		3.4		880		36		430		9.9		3.3		1000		29		360	
		N	7.6		3		680		110		410		6.8		1.8	J	890		37		210		7.3		1	J	620		23		150		8		0.47	J	620		17		100	
		N	7.1		1.3	J	1800		26		160		9.7		2.4		910		24		280		5.5		0.53	J	480		15		110		8.6		1.6	J	590		21	J	210	
		N	6.9		1.7	J	360		21		250		6.6		4.2		520		36		480		9.3		5.6		1500		49		570		6.7		2.2		570	J	26		300	
		N	14		17		500		270		2200		26		14		2900		130		1700		12		4.9		430		76		1000		8.9		0.98	J	380		20		240	
		N	13		14		690		250		3400		16		11		870		230		2000		9.5		6.1		510		46		1500		12	J	1.6	J	1300	J	21	J	280	
		Y	11		5.9		510		140		910		24		8.3		840		140		1100		8		1.3	J	460		20		240		12	J	2.5		1700		28	J	260	
		N	14		5.5		900		150		820		13		4.1		510		78		600		10		1.5	J	540		28		300		9.9		1.7	J	720		53		290	
		N	120		9.3		740		90		970		79		3.4		970		28		470		72		3.2		1200		17		310		23		1.4	J	390		13		190	
		N	12		7.6		690		200		1000		9.1		2.8		620		63		510		8.8		1.3	J	630		29		250		7.2		0.7	J	560		28	J	170	
	Sensitive Population	N	11		9.5		760		270		2100		13		13		1800		270		2200		12		9		1000		570		3800		26	J	13		920	J	2600	J	12000	
		N	9.9		4.7		700		380		740		15		9.7		1000		360		1500		17		12		2000		330		2700		11		8		900		190		1300	
	Sensitive Population	N	13		16		800		190		2400		15		7.8		1500		94		1100		11		3.5		1200		96		770		11		1.6	J	820		23		280	

Notes:

Yellow highlighting indicates the result exceeds the Vegetable Garden Cleanup Level

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation

Table A-3. Total Metals Results for Properties Greater than 1 Acre

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section A																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]	Sensitive Population	N	10		5.4		570		64		680		15		2.2		600		41		420		9.4		1	J	290		20		170		9.6		0.74	J	590		18		140	

Notes:

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit

Table A-3. Total Metals Results for Properties Greater than 1 Acre

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section B																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]	Sensitive Population	N	8.8		2.9		930		52		390		13		5.9		1300		54		720		9.2		4.3		610		42		560		9.9		1.3	J	520		26		220	

Notes:

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit

Table A-3. Total Metals Results for Properties Greater than 1 Acre

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section C																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]	Sensitive Population	N	12		1.2	J	840		29		210		11	J	5.4	J	1500	J	100	J	690	J	14		5.9		1400		150		670		9.1		2.4		1000		38		310	

Notes:

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit

Table A-3. Total Metals Results for Properties Greater than 1 Acre

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section D																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]	Sensitive Population	N	7.4		3.4		460		47		440		8.4		1.6	J	410		24		190		11		1.4	J	310		25		180		8.5		0.46	J	630		17		120	

Notes:

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit

Table A-3. Total Metals Results for Properties Greater than 1 Acre

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section E																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]	Sensitive Population	N	9.9		3.5		540		73		520		11		1.9		210		76		570		11		3.1		220		62		560		9.1		2.2		1100	J	33	J	290	

Notes:

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit

Table A-3. Total Metals Results for Properties Greater than 1 Acre

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section F																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containiminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]	Sensitive Population	N	10		5.8		690		79		980		10		2.7		560		35		360		8.7		2.5		2900		24		340		9.9		0.65	J	1400		27		130	

Notes:

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit

Table A-3. Total Metals Results for Properties Greater than 1 Acre

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section G																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containiminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]	Sensitive Population	N	10		6.3		1100		65		750		15		6.9		1100		61		810		11		6.7		810		43		840		8.6		3.7		990		29		490	

Notes:

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

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U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit

Table A-3. Total Metals Results for Properties Greater than 1 Acre

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

		Yard	Section H																																					
		Depth, inches	0-6										6-12										12-18										18-24							
		Containminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]	Sensitive Population	N	7.6		2.7		530		40		370		18	J	3.8		5100	J	96	J	330		13		0.82	J	330		39		100		14		4.6		580		46		580	

Notes:

Blue highlighting indicates the result exceeds the Yard Area Cleanup Level

ppm = parts per million

As = arsenic

Cd = cadmium

Mn = manganese

Pb = lead

Zn = zinc

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

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Table A-3. Total Metals Results for Properties Greater than 1 Acre

Matthiessen and Hegeler Zinc Company Superfund Site, Residential Area Phase 3

			Section I																																					
		Yard																																						
		Depth, inches	0-6										6-12										12-18										18-24							
		Containminant of Concern	As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn		As		Cd		Mn		Pb		Zn	
		Yard Area Cleanup Levels, ppm	18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864		18		88		2329		400		29864	
		Vegetable Garden Cleanup Levels, ppm	18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379		18		6.4		1056		400		1379	
Property Address	**Population**	**Garden Present (Y/N)**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**	**Res**	**Qual**
[redacted]	Sensitive Population	N	9.2		4.1		610		51		530		8.4		3.8		500		39		530		6.5		3.5		420		28		480		9.6		3.5		1400		29		460	

Notes:

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Mn = manganese

Pb = lead

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U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit