APPENDIX C

C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS

Former Stanley Tools Facility (MID 099 124 299)

Fowlerville, MI

	Location		SD-A1	SD-A1	SD-A2	SD-A2	SD-A2	SD-A3	SD-A3	SDB1	SDB2	SDB3	SDB3	SDB3	SDB3	SD-C1	SD-C1	SDC2	SD-C3	SD-C3	SD-C3	SDC3
	Field ID:		SDA1012-042303-01	SDA11224-042303-01	SDA2012-042303-01	SDA2012-042303-02	SDA21224-042303-01	SDA3012-042303-01	SDA31224-042303-01	SDB1-0016-101703-01	SDB2-0016-101703-01	SDB3-0012-101703-01	SDB3-1228-101703-01	SDB3-1228-101703-02	SDB3-3642-101703-01	SDC1012-042203-01	SDC11224-042203-01	SDC2-0013-101703-01	SDC3012-042203-01	SDC31224-042203-01	SDC31224-042203-02	SDC3-4248-101703-01
	Date Sampled:		4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	4/22/2003	4/22/2003	10/17/2003	4/22/2003	4/22/2003	4/22/2003	10/17/2003
Volatile Organic Compounds																						
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
1,1,1-Trichloroethane	71-55-6	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
1,1,2-Trichloroethane	79-00-5	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
1,1-Dichloroethane	75-34-3	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
1,1-Dichloroethene	75-35-4	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
1,1-Dichloropropylene	563-58-6	ug/kg	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
1,2,3-Trichlorobenzene	87-61-6	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
1,2,3-Trichloropropane	96-18-4	ug/kg	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
1,2,4-Trichlorobenzene	120-82-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
1,2,4-Trimethylbenzene	95-63-6	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
1,2-Dichlorobenzene	95-50-1	ug/kg	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
1,2-Dichloroethane	107-06-2	ug/kg	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
1,2-Dichloroethene	540-59-0	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
1,2-Dichloropropane	78-87-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
1,3,5-Trimethylbenzene	108-67-8	ug/kg	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
1,3-Dichlorobenzene	541-73-1	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
1,3-Dichloropropane	142-28-9	ug/kg	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
1,4-Dichlorobenzene	106-46-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2,2-Dichloropropane	594-20-7	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2-Chlorotoluene	95-49-8	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2-Hexanone	591-78-6	ug/kg	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
4-Chlorotoluene	106-43-4	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
4-Isopropyltoluene	99-87-6	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
4-Methyl-2-pentanone	108-10-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Acetone	67-64-1	ug/kg	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190
Acrolein	107-02-8	ug/kg	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Benzene	71-43-2	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Bromobenzene	108-86-1	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Bromochloromethane	74-97-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Bromoform	75-25-2	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Bromomethane	74-83-9	ug/kg	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Carbon disulfide	75-15-0	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Carbon tetrachloride	56-23-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Chlorobenzene	108-90-7	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Chloroethane	75-00-3	ug/kg	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
Chloroform	67-66-3	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Chloromethane	74-87-3	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
cis-1,2-Dichloroethene	156-59-2	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
cis-1,3-Dichloropropene	10061-01-5	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Dibromochloromethane	124-48-1	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Dibromomethane	74-95-3	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Dichlorobromomethane	75-27-4	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dichlorodifluoromethane	75-71-8	ug/kg	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Ethylbenzene	100-41-4	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Ethylene dibromide	106-93-4	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Hexachlorobutadiene	87-68-3	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Isopropylbenzene	98-82-8	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Methyl ethyl ketone	78-93-3	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Methyl tert butyl ether	1634-04-4	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Methylene chloride	75-09-2	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
n-Butylbenzene	104-51-8	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
n-Propylbenzene	103-65-1	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Naphthalene	91-20-3	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
o-Xylene	95-47-6	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
sec-Butylbenzene	135-98-8	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36

APPENDIX C
C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS
Former Stanley Tools Facility (MID 099 124 299)
Fowlerville, MI

	Location		SD-A1	SD-A1	SD-A2	SD-A2	SD-A2	SD-A3	SD-A3	SDB1	SDB2	SDB3	SDB3	SDB3	SDB3	SD-C1	SD-C1	SDC2	SD-C3	SD-C3	SD-C3	SDC3
	Field ID:		SDA1012-042303-01	SDA11224-042303-01	SDA2012-042303-01	SDA2012-042303-02	SDA21224-042303-01	SDA3012-042303-01	SDA31224-042303-01	SDB1-0016-101703-01	SDB2-0016-101703-01	SDB3-0012-101703-01	SDB3-1228-101703-01	SDB3-1228-101703-02	SDB3-3642-101703-01	SDC1012-042203-01	SDC11224-042203-01	SDC2-0013-101703-01	SDC3012-042203-01	SDC31224-042203-01	SDC31224-042203-02	SDC3-4248-101703-01
	Date Sampled:		4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	4/22/2003	4/22/2003	10/17/2003	4/22/2003	4/22/2003	4/22/2003	10/17/2003
Styrene	100-42-5	ug/kg	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
tert-Butylbenzene	98-06-6	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Tetrachloroethene	127-18-4	ug/kg	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Toluene	108-88-3	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
trans-1,2-Dichloroethylene	156-60-5	ug/kg	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
trans-1,3-Dichloropropene	10061-02-6	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Trichloroethene	79-01-6	ug/kg	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Trichlorofluoromethane	75-69-4	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Vinyl chloride	75-01-4	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Xylene, Meta + Para	Not Applicable	ug/kg	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
Semi-Volatile Organic Compounds																						
1,2,4-Trichlorobenzene	120-82-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
1,2-Benzphenanthracene	218-01-9	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
1,2-Dichlorobenzene	95-50-1	ug/kg	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
1,3-Dichlorobenzene	541-73-1	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
1,4-Dichlorobenzene	106-46-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2,4,5-Trichlorophenol	95-95-4	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
2,4,6-Trichlorophenol	88-06-2	ug/kg	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
2,4-Dichlorophenol	120-83-2	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
2,4-Dimethylphenol	105-67-9	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
2,4-Dinitrophenol	51-28-5	ug/kg	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
2,4-Dinitrotoluene	121-14-2	ug/kg	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
2,6-Dinitrotoluene	606-20-2	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2-Chloronaphthalene	91-58-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2-Chlorophenol	95-57-8	ug/kg	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
2-Methylnaphthalene	91-57-6	ug/kg	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2-Methylphenol	95-48-7	ug/kg	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
2-Nitroaniline	88-74-4	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2-Nitrophenol	88-75-5	ug/kg	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
3,3-Dichlorobenzidine	91-94-1	ug/kg	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390
3,4-Methylphenol	108-39-4	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
3-Nitroaniline	99-09-2	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290
4-Bromophenyl-phenylether	101-55-3	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
4-Chloroaniline	106-47-8	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4-Chlorophenyl-phenylether	7005-72-3	ug/kg	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
4-Methylphenol	106-44-5	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
4-Nitroaniline	100-01-6	ug/kg	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
4-Nitrophenol	100-02-7	ug/kg	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Acenaphthene	83-32-9	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Acenaphthylene	208-96-8	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Anthracene	120-12-7	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Benz(a)anthracene	56-55-3	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Benzidine	92-87-5	ug/kg	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300
Benzo(a)pyrene	50-32-8	ug/kg	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Benzo(b)fluoranthene	205-99-2	ug/kg	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
Benzo(g,h,i)perylene	191-24-2	ug/kg	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Benzo(k)fluoranthene	207-08-9	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Benzoic acid	65-85-0	ug/kg	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Benzyl alcohol	100-51-6	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
bis(2-Chloroethoxy)methane	111-91-1	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
bis(2-Chloroethyl)ether	111-44-4	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
bis(2-Chloroisopropyl)ether	108-60-1	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66
Butyl benzyl phthalate	85-68-7	ug/kg	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Carbazole	86-74-8	ug/kg	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
Chrysene	218-01-9	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Di-N-Butyl phthalate	84-74-2	ug/kg	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350

APPENDIX C
C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS
Former Stanley Tools Facility (MID 099 124 299)
Fowlerville, MI

	Location		SD-A1	SD-A1	SD-A2	SD-A2	SD-A2	SD-A3	SD-A3	SDB1	SDB2	SDB3	SDB3	SDB3	SDB3	SD-C1	SD-C1	SDC2	SD-C3	SD-C3	SD-C3	SDC3
	Field ID:		SDA1012-042303-01	SDA11224-042303-01	SDA2012-042303-01	SDA2012-042303-02	SDA21224-042303-01	SDA3012-042303-01	SDA31224-042303-01	SDB1-0016-101703-01	SDB2-0016-101703-01	SDB3-0012-101703-01	SDB3-1228-101703-01	SDB3-1228-101703-02	SDB3-3642-101703-01	SDC1012-042203-01	SDC11224-042203-01	SDC2-0013-101703-01	SDC3012-042203-01	SDC31224-042203-01	SDC31224-042203-02	SDC3-4248-101703-01
	Date Sampled:		4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	4/23/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	10/17/2003	4/22/2003	4/22/2003	10/17/2003	4/22/2003	4/22/2003	4/22/2003	10/17/2003
Di-N-Octyl phthalate	117-84-0	ug/kg	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Dibenz(a,h)anthracene	53-70-3	ug/kg	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Dibenzofuran	132-64-9	ug/kg	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Diethylphthalate	84-66-2	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Dimethyl phthalate	131-11-3	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Fluoranthene	206-44-0	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Fluorene	86-73-7	ug/kg	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Hexachlorobenzene	118-74-1	ug/kg	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Hexachlorobutadiene	87-68-3	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Hexachlorocyclopentadiene	77-47-4	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Hexachloroethane	67-72-1	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
Isophorone	78-59-1	ug/kg	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
N-Nitroso-di-N-propylamine	621-64-7	ug/kg	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79
N-Nitrosodiphenylamine	86-30-6	ug/kg	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Naphthalene	91-20-3	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Nitrobenzene	98-95-3	ug/kg	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
p-Chloro-m-cresol	59-50-7	ug/kg	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
Pentachlorophenol	87-86-5	ug/kg	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620
Phenanthrene	85-01-8	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Phenol	108-95-2	ug/kg	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
PNAs, Total	TPNA	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Pyrene	129-00-0	ug/kg	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Polychlorinated Biphenyls (PCBs):																						
PCB-1248	12672-29-6	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
PCB-1254	11097-69-1	ug/kg	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
PCB-1260	11096-82-5	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
PCB, Total	TPCB	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
PCB-1016	12674-11-2	ug/kg	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
PCB-1221	11104-28-2	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
PCB-1232	11141-16-5	ug/kg	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PCB-1242	53469-21-9	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
PCB-1248	12672-29-6	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
PCB-1254	11097-69-1	ug/kg	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
PCB-1260	11096-82-5	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Total Metals:																						
Aluminum, Total	7429-90-5	mg/kg	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
Arsenic, Total	7440-38-2	mg/kg	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Barium, Total	7440-39-3	mg/kg	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
Cadmium, Total	7440-43-9	mg/kg	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
Chromium, Total	7440-47-3	mg/kg	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
Copper, Total	7440-50-8	mg/kg	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
Lead, Total	7439-92-1	mg/kg	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Mercury, Total	7439-97-6	mg/kg	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Nickel, Total	7440-02-0	mg/kg	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Selenium, Total	7782-49-2	mg/kg	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
Silver, Total	7440-22-4	mg/kg	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Zinc, Total	7440-66-6	mg/kg	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Chromium(VI)	18540-29-9	mg/kg	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Miscellaneous Parameters:																						
Cyanide, Free	57-12-5	mg/kg	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Cyanide, Total	57-12-5	mg/kg	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

APPENDIX C
C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS
Former Stanley Tools Facility (MID 099 124 299)
Fowlerville, MI

	Location		SDD1	SDD2	SDD2	SDD3	SD-E1	SD-E1	SDE1	SD-E2	SD-E2	SD-E3	SD-E3	SDF1	SDF1	SDF2	SDF2	SDF3	SDF3	SD-G1	SD-G1	SD-G1
	Field ID:		SDD1-0006-101603-01	SDD2-0007-101603-01	SDD2-2430-101703-01	SDD3-0012-101603-01	SDE1012-042203-01	SDE11224-042203-01	SDE1-3642-101703-01	SDE2012-042203-01	SDE21224-042203-01	SDE3012-042203-01	SDE31224-042203-01	SDF1-0012-101603-01	SDF1-1224-101603-01	SDF2-0012-101603-01	SDF2-1226-101603-01	SDF3-0012-101603-01	SDF3-1222-101603-01	SDG1-0012-101603-01	SDG1-1228-101603-01	SDG1-1228-101603-02
	Date Sampled:		10/16/2003	10/16/2003	10/17/2003	10/16/2003	4/22/2003	4/23/2003	10/17/2003	4/22/2003	4/22/2003	4/22/2003	4/22/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003
Volatile Organic Compounds																						
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
1,1,1-Trichloroethane	71-55-6	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
1,1,2-Trichloroethane	79-00-5	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
1,1-Dichloroethane	75-34-3	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
1,1-Dichloroethene	75-35-4	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
1,1-Dichloropropylene	563-58-6	ug/kg	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
1,2,3-Trichlorobenzene	87-61-6	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
1,2,3-Trichloropropane	96-18-4	ug/kg	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
1,2,4-Trichlorobenzene	120-82-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
1,2,4-Trimethylbenzene	95-63-6	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
1,2-Dichlorobenzene	95-50-1	ug/kg	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
1,2-Dichloroethane	107-06-2	ug/kg	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
1,2-Dichloroethene	540-59-0	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
1,2-Dichloropropane	78-87-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
1,3,5-Trimethylbenzene	108-67-8	ug/kg	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
1,3-Dichlorobenzene	541-73-1	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
1,3-Dichloropropane	142-28-9	ug/kg	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
1,4-Dichlorobenzene	106-46-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2,2-Dichloropropane	594-20-7	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2-Chlorotoluene	95-49-8	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2-Hexanone	591-78-6	ug/kg	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
4-Chlorotoluene	106-43-4	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
4-Isopropyltoluene	99-87-6	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
4-Methyl-2-pentanone	108-10-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Acetone	67-64-1	ug/kg	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190
Acrolein	107-02-8	ug/kg	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Benzene	71-43-2	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Bromobenzene	108-86-1	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Bromochloromethane	74-97-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Bromoform	75-25-2	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Bromomethane	74-83-9	ug/kg	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Carbon disulfide	75-15-0	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Carbon tetrachloride	56-23-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Chlorobenzene	108-90-7	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Chloroethane	75-00-3	ug/kg	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
Chloroform	67-66-3	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Chloromethane	74-87-3	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
cis-1,2-Dichloroethene	156-59-2	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
cis-1,3-Dichloropropene	10061-01-5	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Dibromochloromethane	124-48-1	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Dibromomethane	74-95-3	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Dichlorobromomethane	75-27-4	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dichlorodifluoromethane	75-71-8	ug/kg	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Ethylbenzene	100-41-4	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Ethylene dibromide	106-93-4	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Hexachlorobutadiene	87-68-3	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Isopropylbenzene	98-82-8	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Methyl ethyl ketone	78-93-3	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Methyl tert butyl ether	1634-04-4	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Methylene chloride	75-09-2	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
n-Butylbenzene	104-51-8	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
n-Propylbenzene	103-65-1	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Naphthalene	91-20-3	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
o-Xylene	95-47-6	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
sec-Butylbenzene	135-98-8	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36

APPENDIX C
C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS
Former Stanley Tools Facility (MID 099 124 299)
Fowlerville, MI

	Location		SDD1	SDD2	SDD2	SDD3	SD-E1	SD-E1	SDE1	SD-E2	SD-E2	SD-E3	SD-E3	SDF1	SDF1	SDF2	SDF2	SDF3	SDF3	SD-G1	SD-G1	SD-G1
	Field ID:		SDD1-0006-101603-01	SDD2-0007-101603-01	SDD2-2430-101703-01	SDD3-0012-101603-01	SDE1012-042203-01	SDE11224-042203-01	SDE1-3642-101703-01	SDE2012-042203-01	SDE21224-042203-01	SDE3012-042203-01	SDE31224-042203-01	SDF1-0012-101603-01	SDF1-1224-101603-01	SDF2-0012-101603-01	SDF2-1226-101603-01	SDF3-0012-101603-01	SDF3-1222-101603-01	SDG1-0012-101603-01	SDG1-1228-101603-01	SDG1-1228-101603-02
	Date Sampled:		10/16/2003	10/16/2003	10/17/2003	10/16/2003	4/22/2003	4/23/2003	10/17/2003	4/22/2003	4/22/2003	4/22/2003	4/22/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003
Styrene	100-42-5	ug/kg	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
tert-Butylbenzene	98-06-6	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Tetrachloroethene	127-18-4	ug/kg	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Toluene	108-88-3	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
trans-1,2-Dichloroethylene	156-60-5	ug/kg	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
trans-1,3-Dichloropropene	10061-02-6	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Trichloroethene	79-01-6	ug/kg	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Trichlorofluoromethane	75-69-4	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Vinyl chloride	75-01-4	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Xylene, Meta + Para	Not Applicable	ug/kg	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
Semi-Volatile Organic Compounds																						
1,2,4-Trichlorobenzene	120-82-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
1,2-Benzphenanthracene	218-01-9	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
1,2-Dichlorobenzene	95-50-1	ug/kg	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
1,3-Dichlorobenzene	541-73-1	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
1,4-Dichlorobenzene	106-46-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2,4,5-Trichlorophenol	95-95-4	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
2,4,6-Trichlorophenol	88-06-2	ug/kg	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
2,4-Dichlorophenol	120-83-2	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
2,4-Dimethylphenol	105-67-9	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
2,4-Dinitrophenol	51-28-5	ug/kg	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
2,4-Dinitrotoluene	121-14-2	ug/kg	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
2,6-Dinitrotoluene	606-20-2	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2-Chloronaphthalene	91-58-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2-Chlorophenol	95-57-8	ug/kg	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
2-Methylnaphthalene	91-57-6	ug/kg	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2-Methylphenol	95-48-7	ug/kg	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
2-Nitroaniline	88-74-4	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2-Nitrophenol	88-75-5	ug/kg	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
3,3-Dichlorobenzidine	91-94-1	ug/kg	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390
3,4-Methylphenol	108-39-4	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
3-Nitroaniline	99-09-2	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290
4-Bromophenyl-phenylether	101-55-3	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
4-Chloroaniline	106-47-8	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4-Chlorophenyl-phenylether	7005-72-3	ug/kg	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
4-Methylphenol	106-44-5	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
4-Nitroaniline	100-01-6	ug/kg	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
4-Nitrophenol	100-02-7	ug/kg	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Acenaphthene	83-32-9	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Acenaphthylene	208-96-8	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Anthracene	120-12-7	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Benz(a)anthracene	56-55-3	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Benzidine	92-87-5	ug/kg	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300
Benzo(a)pyrene	50-32-8	ug/kg	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Benzo(b)fluoranthene	205-99-2	ug/kg	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
Benzo(g,h,i)perylene	191-24-2	ug/kg	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Benzo(k)fluoranthene	207-08-9	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Benzoic acid	65-85-0	ug/kg	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Benzyl alcohol	100-51-6	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
bis(2-Chloroethoxy)methane	111-91-1	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
bis(2-Chloroethyl)ether	111-44-4	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
bis(2-Chloroisopropyl)ether	108-60-1	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66
Butyl benzyl phthalate	85-68-7	ug/kg	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Carbazole	86-74-8	ug/kg	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
Chrysene	218-01-9	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Di-N-Butyl phthalate	84-74-2	ug/kg	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350

APPENDIX C

C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS

Former Stanley Tools Facility (MID 099 124 299)

Fowlerville, MI

	Location		SDD1	SDD2	SDD2	SDD3	SD-E1	SD-E1	SDE1	SD-E2	SD-E2	SD-E3	SD-E3	SDF1	SDF1	SDF2	SDF2	SDF3	SDF3	SD-G1	SD-G1	SD-G1
	Field ID:		SDD1-0006-101603-01	SDD2-0007-101603-01	SDD2-2430-101703-01	SDD3-0012-101603-01	SDE1012-042203-01	SDE11224-042203-01	SDE1-3642-101703-01	SDE2012-042203-01	SDE21224-042203-01	SDE3012-042203-01	SDE31224-042203-01	SDF1-0012-101603-01	SDF1-1224-101603-01	SDF2-0012-101603-01	SDF2-1226-101603-01	SDF3-0012-101603-01	SDF3-1222-101603-01	SDG1-0012-101603-01	SDG1-1228-101603-01	SDG1-1228-101603-02
	Date Sampled:		10/16/2003	10/16/2003	10/17/2003	10/16/2003	4/22/2003	4/23/2003	10/17/2003	4/22/2003	4/22/2003	4/22/2003	4/22/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003
Di-N-Octyl phthalate	117-84-0	ug/kg	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Dibenz(a,h)anthracene	53-70-3	ug/kg	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Dibenzofuran	132-64-9	ug/kg	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Diethylphthalate	84-66-2	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Dimethyl phthalate	131-11-3	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Fluoranthene	206-44-0	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Fluorene	86-73-7	ug/kg	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Hexachlorobenzene	118-74-1	ug/kg	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Hexachlorobutadiene	87-68-3	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Hexachlorocyclopentadiene	77-47-4	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Hexachloroethane	67-72-1	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
Isophorone	78-59-1	ug/kg	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
N-Nitroso-di-N-propylamine	621-64-7	ug/kg	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79
N-Nitrosodiphenylamine	86-30-6	ug/kg	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Naphthalene	91-20-3	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Nitrobenzene	98-95-3	ug/kg	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
p-Chloro-m-cresol	59-50-7	ug/kg	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
Pentachlorophenol	87-86-5	ug/kg	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620
Phenanthrene	85-01-8	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Phenol	108-95-2	ug/kg	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
PNAs, Total	TPNA	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Pyrene	129-00-0	ug/kg	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Polychlorinated Biphenyls (PCBs):																						
PCB-1248	12672-29-6	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
PCB-1254	11097-69-1	ug/kg	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
PCB-1260	11096-82-5	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
PCB, Total	TPCB	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
PCB-1016	12674-11-2	ug/kg	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
PCB-1221	11104-28-2	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
PCB-1232	11141-16-5	ug/kg	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PCB-1242	53469-21-9	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
PCB-1248	12672-29-6	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
PCB-1254	11097-69-1	ug/kg	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
PCB-1260	11096-82-5	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Total Metals:																						
Aluminum, Total	7429-90-5	mg/kg	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
Arsenic, Total	7440-38-2	mg/kg	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Barium, Total	7440-39-3	mg/kg	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
Cadmium, Total	7440-43-9	mg/kg	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
Chromium, Total	7440-47-3	mg/kg	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
Copper, Total	7440-50-8	mg/kg	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
Lead, Total	7439-92-1	mg/kg	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Mercury, Total	7439-97-6	mg/kg	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Nickel, Total	7440-02-0	mg/kg	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Selenium, Total	7782-49-2	mg/kg	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
Silver, Total	7440-22-4	mg/kg	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Zinc, Total	7440-66-6	mg/kg	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Chromium(VI)	18540-29-9	mg/kg	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Miscellaneous Parameters:																						
Cyanide, Free	57-12-5	mg/kg	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Cyanide, Total	57-12-5	mg/kg	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

APPENDIX C

C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS

Former Stanley Tools Facility (MID 099 124 299)

Fowlerville, MI

	Location		SD-G2	SD-G2	SD-G2	SD-G3	SD-H1	SD-H1	SD-H1	SD-H2	SD-H2	SD-H2	SD-H2	SD-H3	SD-H3	SD-I1	SD-I1	SD-I1	SD-I1	SD-I2	SD-I2	SD-I2	SD-I3	SD-I3
	Field ID:		SDG2-0012-101603-01	SDG2-1227-101603-01	SDG2-1227-101603-02	SDG3-0014-101603-01	SDHI-0012-101603-01	SDHI-1224-101603-01	SDHI-2436-101603-01	SDH2-0012-101603-01	SDH2-1224-101603-01	SDH2-2445-101603-01	SDH2-2445-101603-02	SDH3-0012-101603-01	SDH3-1221-101603-01	SDI1-0012-101503-01	SDI1-1224-101503-01	SDI1-2445-101503-01	SDI1-2445-101503-02	SDI2-0012-101503-01	SDI2-1224-101503-01	SDI2-2436-101503-01	SDI3-0012-101503-01	SDI3-1231-101503-01
	Date Sampled:		10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003
Volatile Organic Compounds																								
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
1,1,1-Trichloroethane	71-55-6	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
1,1,2-Trichloroethane	79-00-5	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
1,1-Dichloroethane	75-34-3	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
1,1-Dichloroethene	75-35-4	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
1,1-Dichloropropylene	563-58-6	ug/kg	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
1,2,3-Trichlorobenzene	87-61-6	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
1,2,3-Trichloropropane	96-18-4	ug/kg	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
1,2,4-Trichlorobenzene	120-82-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
1,2,4-Trimethylbenzene	95-63-6	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
1,2-Dichlorobenzene	95-50-1	ug/kg	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
1,2-Dichloroethane	107-06-2	ug/kg	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
1,2-Dichloroethene	540-59-0	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
1,2-Dichloropropane	78-87-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
1,3,5-Trimethylbenzene	108-67-8	ug/kg	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
1,3-Dichlorobenzene	541-73-1	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
1,3-Dichloropropane	142-28-9	ug/kg	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
1,4-Dichlorobenzene	106-46-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2,2-Dichloropropane	594-20-7	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2-Chlorotoluene	95-49-8	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2-Hexanone	591-78-6	ug/kg	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
4-Chlorotoluene	106-43-4	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
4-Isopropyltoluene	99-87-6	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
4-Methyl-2-pentanone	108-10-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Acetone	67-64-1	ug/kg	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190
Acrolein	107-02-8	ug/kg	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Benzene	71-43-2	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Bromobenzene	108-86-1	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Bromochloromethane	74-97-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Bromoform	75-25-2	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Bromomethane	74-83-9	ug/kg	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Carbon disulfide	75-15-0	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Carbon tetrachloride	56-23-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Chlorobenzene	108-90-7	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Chloroethane	75-00-3	ug/kg	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
Chloroform	67-66-3	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Chloromethane	74-87-3	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
cis-1,2-Dichloroethene	156-59-2	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
cis-1,3-Dichloropropene	10061-01-5	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Dibromochloromethane	124-48-1	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Dibromomethane	74-95-3	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Dichlorobromomethane	75-27-4	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dichlorodifluoromethane	75-71-8	ug/kg	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Ethylbenzene	100-41-4	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Ethylene dibromide	106-93-4	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Hexachlorobutadiene	87-68-3	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Isopropylbenzene	98-82-8	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Methyl ethyl ketone	78-93-3	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Methyl tert butyl ether	1634-04-4	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Methylene chloride	75-09-2	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
n-Butylbenzene	104-51-8	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
n-Propylbenzene	103-65-1	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Naphthalene	91-20-3	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
o-Xylene	95-47-6	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
sec-Butylbenzene	135-98-8	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36

APPENDIX C
C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS
Former Stanley Tools Facility (MID 099 124 299)
Fowlerville, MI

	Location		SD-G2	SD-G2	SD-G2	SD-G3	SD-H1	SD-H1	SD-H1	SD-H2	SD-H2	SD-H2	SD-H2	SD-H3	SD-H3	SD-I1	SD-I1	SD-I1	SD-I1	SD-I2	SD-I2	SD-I2	SD-I3	SD-I3
	Field ID:		SDG2-0012-101603-01	SDG2-1227-101603-01	SDG2-1227-101603-02	SDG3-0014-101603-01	SDHI-0012-101603-01	SDHI-1224-101603-01	SDHI-2436-101603-01	SDH2-0012-101603-01	SDH2-1224-101603-01	SDH2-2445-101603-01	SDH2-2445-101603-02	SDH3-0012-101603-01	SDH3-1221-101603-01	SDI1-0012-101503-01	SDI1-1224-101503-01	SDI1-2445-101503-01	SDI1-2445-101503-02	SDI2-0012-101503-01	SDI2-1224-101503-01	SDI2-2436-101503-01	SDI3-0012-101503-01	SDI3-1231-101503-01
	Date Sampled:		10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003
Styrene	100-42-5	ug/kg	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
tert-Butylbenzene	98-06-6	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Tetrachloroethene	127-18-4	ug/kg	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Toluene	108-88-3	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
trans-1,2-Dichloroethylene	156-60-5	ug/kg	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
trans-1,3-Dichloropropene	10061-02-6	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Trichloroethene	79-01-6	ug/kg	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Trichlorofluoromethane	75-69-4	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Vinyl chloride	75-01-4	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Xylene, Meta + Para	Not Applicable	ug/kg	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
Semi-Volatile Organic Compounds																								
1,2,4-Trichlorobenzene	120-82-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
1,2-Benzphenanthracene	218-01-9	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
1,2-Dichlorobenzene	95-50-1	ug/kg	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
1,3-Dichlorobenzene	541-73-1	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
1,4-Dichlorobenzene	106-46-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2,4,5-Trichlorophenol	95-95-4	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
2,4,6-Trichlorophenol	88-06-2	ug/kg	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
2,4-Dichlorophenol	120-83-2	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
2,4-Dimethylphenol	105-67-9	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
2,4-Dinitrophenol	51-28-5	ug/kg	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
2,4-Dinitrotoluene	121-14-2	ug/kg	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
2,6-Dinitrotoluene	606-20-2	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2-Chloronaphthalene	91-58-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2-Chlorophenol	95-57-8	ug/kg	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
2-Methylnaphthalene	91-57-6	ug/kg	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2-Methylphenol	95-48-7	ug/kg	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
2-Nitroaniline	88-74-4	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2-Nitrophenol	88-75-5	ug/kg	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
3,3-Dichlorobenzidine	91-94-1	ug/kg	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390
3,4-Methylphenol	108-39-4	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
3-Nitroaniline	99-09-2	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290
4-Bromophenyl-phenylether	101-55-3	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
4-Chloroaniline	106-47-8	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4-Chlorophenyl-phenylether	7005-72-3	ug/kg	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
4-Methylphenol	106-44-5	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
4-Nitroaniline	100-01-6	ug/kg	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
4-Nitrophenol	100-02-7	ug/kg	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Acenaphthene	83-32-9	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Acenaphthylene	208-96-8	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Anthracene	120-12-7	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Benz(a)anthracene	56-55-3	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Benzidine	92-87-5	ug/kg	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300
Benzo(a)pyrene	50-32-8	ug/kg	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Benzo(b)fluoranthene	205-99-2	ug/kg	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
Benzo(g,h,i)perylene	191-24-2	ug/kg	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Benzo(k)fluoranthene	207-08-9	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Benzoic acid	65-85-0	ug/kg	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Benzyl alcohol	100-51-6	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
bis(2-Chloroethoxy)methane	111-91-1	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
bis(2-Chloroethyl)ether	111-44-4	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
bis(2-Chloroisopropyl)ether	108-60-1	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66
Butyl benzyl phthalate	85-68-7	ug/kg	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Carbazole	86-74-8	ug/kg	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
Chrysene	218-01-9	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Di-N-Butyl phthalate	84-74-2	ug/kg	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350

APPENDIX C
C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS
Former Stanley Tools Facility (MID 099 124 299)
Fowlerville, MI

	Location		SD-G2	SD-G2	SD-G2	SD-G3	SD-H1	SD-H1	SD-H1	SD-H2	SD-H2	SD-H2	SD-H2	SD-H3	SD-H3	SD-I1	SD-I1	SD-I1	SD-I1	SD-I2	SD-I2	SD-I2	SD-I3	SD-I3
	Field ID:		SDG2-0012-101603-01	SDG2-1227-101603-01	SDG2-1227-101603-02	SDG3-0014-101603-01	SDHI-0012-101603-01	SDHI-1224-101603-01	SDHI-2436-101603-01	SDH2-0012-101603-01	SDH2-1224-101603-01	SDH2-2445-101603-01	SDH2-2445-101603-02	SDH3-0012-101603-01	SDH3-1221-101603-01	SDI1-0012-101503-01	SDI1-1224-101503-01	SDI1-2445-101503-01	SDI1-2445-101503-02	SDI2-0012-101503-01	SDI2-1224-101503-01	SDI2-2436-101503-01	SDI3-0012-101503-01	SDI3-1231-101503-01
	Date Sampled:		10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/16/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003
Di-N-Octyl phthalate	117-84-0	ug/kg	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Dibenz(a,h)anthracene	53-70-3	ug/kg	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Dibenzofuran	132-64-9	ug/kg	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Diethylphthalate	84-66-2	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Dimethyl phthalate	131-11-3	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Fluoranthene	206-44-0	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Fluorene	86-73-7	ug/kg	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Hexachlorobenzene	118-74-1	ug/kg	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Hexachlorobutadiene	87-68-3	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
Hexachlorocyclopentadiene	77-47-4	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Hexachloroethane	67-72-1	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
Isophorone	78-59-1	ug/kg	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
N-Nitroso-di-N-propylamine	621-64-7	ug/kg	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79
N-Nitrosodiphenylamine	86-30-6	ug/kg	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Naphthalene	91-20-3	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Nitrobenzene	98-95-3	ug/kg	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
p-Chloro-m-cresol	59-50-7	ug/kg	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
Pentachlorophenol	87-86-5	ug/kg	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620
Phenanthrene	85-01-8	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Phenol	108-95-2	ug/kg	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
PNAs, Total	TPNA	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Pyrene	129-00-0	ug/kg	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Polychlorinated Biphenyls (PCBs):																								
PCB-1248	12672-29-6	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
PCB-1254	11097-69-1	ug/kg	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
PCB-1260	11096-82-5	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
PCB, Total	TPCB	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
PCB-1016	12674-11-2	ug/kg	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
PCB-1221	11104-28-2	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
PCB-1232	11141-16-5	ug/kg	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PCB-1242	53469-21-9	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
PCB-1248	12672-29-6	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
PCB-1254	11097-69-1	ug/kg	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
PCB-1260	11096-82-5	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Total Metals:																								
Aluminum, Total	7429-90-5	mg/kg	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
Arsenic, Total	7440-38-2	mg/kg	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Barium, Total	7440-39-3	mg/kg	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
Cadmium, Total	7440-43-9	mg/kg	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
Chromium, Total	7440-47-3	mg/kg	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
Copper, Total	7440-50-8	mg/kg	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
Lead, Total	7439-92-1	mg/kg	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Mercury, Total	7439-97-6	mg/kg	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Nickel, Total	7440-02-0	mg/kg	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Selenium, Total	7782-49-2	mg/kg	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
Silver, Total	7440-22-4	mg/kg	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Zinc, Total	7440-66-6	mg/kg	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Chromium(VI)	18540-29-9	mg/kg	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Miscellaneous Parameters:																								
Cyanide, Free	57-12-5	mg/kg	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Cyanide, Total	57-12-5	mg/kg	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

APPENDIX C
C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS
Former Stanley Tools Facility (MID 099 124 299)
Fowlerville, MI

	Location		SD-I3	SD-J1	SD-J1	SD-J1	SD-J2	SD-J2	SD-J3	SD-J3	SD-K1	SD-K2	SD-K2	SD-K1	SD-K3	SD-K3	SD-LU3	SD-LU2	SD-LU1	SD-L1	SD-L1	SD-L1	SD-L1	SD-L1	SD-L2
	Field ID:		SDI3-1231-101503-02	SDJ1012-042203-01	SDJ11224-042203-01	SDJ11224-042203-02	SDJ2-0012-101503-01	SDJ2-1224-101503-01	SDJ3012-042203-01	SDJ31224-042203-01	SDK1-0012-101503-01	SDK2-0012-101503-01	SDK2-1224-101503-01	SDK1-1224-101503-01	SDK3-0012-101503-01	SDK3-1224-101503-01	LU-09-SD-3A 0911479-01	LU-09-SD-2A 0911479-03	LU-09-SD-1A 0911479-02	SDL1012 052003-01	L-09-SD-3A 0911479-05	SDL1012 052003-02	SDL11224 052003-01	L-09-SD-3B 0911479-06	SDL2012 052003-01
	Date Sampled:		10/15/2003	4/22/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	11/23/2009	11/23/2009	11/23/2009	5/20/2003	#########	5/20/2003	5/20/2003	#########	5/20/2003
Volatile Organic Compounds																									
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	12	10	11	21	12	21	21	12	21
1,1,1-Trichloroethane	71-55-6	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	20	18	19	36	20	36	36	21	36
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	18	16	17	32	18	32	32	19	32
1,1,2-Trichloroethane	79-00-5	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	33	29	31	58	33	58	58	33	58
1,1-Dichloroethane	75-34-3	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	16	14	15	28	16	28	28	16	28
1,1-Dichloroethene	75-35-4	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	19	17	18	33	19	33	33	19	33
1,1-Dichloropropylene	563-58-6	ug/kg	38	38	38	38	38	38	38	38	38	38	38	38	38	38	21	19	20	38	21	38	38	22	38
1,2,3-Trichlorobenzene	87-61-6	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	13	12	13	24	13	24	24	14	24
1,2,3-Trichloropropane	96-18-4	ug/kg	50	50	50	50	50	50	50	50	50	50	50	50	50	50	28	25	27	50	28	50	50	29	50
1,2,4-Trichlorobenzene	120-82-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	5.1	4.6	5.3	55	5.5	55	55	5.2	55
1,2,4-Trimethylbenzene	95-63-6	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	19	17	18	33	19	33	33	19	33
1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	40	40	40	40	40	40	40	40	40	40	40	40	40	40	23	20	22	40	23	40	40	23	40
1,2-Dichlorobenzene	95-50-1	ug/kg	27	27	27	27	27	27	27	27	27	27	27	27	27	27	15	14	14	27	15	27	27	15	27
1,2-Dichloroethane	107-06-2	ug/kg	20	20	20	20	20	20	20	20	20	20	20	20	20	20	11	10	11	20	11	20	20	11	20
1,2-Dichloroethene	540-59-0	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	35	32	34	63	36	63	63	36	63
1,2-Dichloropropane	78-87-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	14	13	13	25	14	25	25	14	25
1,3,5-Trimethylbenzene	108-67-8	ug/kg	29	29	29	29	29	29	29	29	29	29	29	29	29	29	17	15	16	29	17	29	29	17	29
1,3-Dichlorobenzene	541-73-1	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	18	16	17	31	18	31	31	18	31
1,3-Dichloropropane	142-28-9	ug/kg	19	19	19	19	19	19	19	19	19	19	19	19	19	19	10	9.4	10	19	11	19	19	11	19
1,4-Dichlorobenzene	106-46-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	18	16	17	31	18	31	31	18	31
2,2-Dichloropropane	594-20-7	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	18	17	17	33	18	33	33	19	33
2-Chlorotoluene	95-49-8	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	18	16	17	31	18	31	31	18	31
2-Hexanone	591-78-6	ug/kg	61	61	61	61	61	61	61	61	61	61	61	61	61	61	34	31	32	61	34	61	61	35	61
4-Chlorotoluene	106-43-4	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	18	17	18	33	19	33	33	19	33
4-Isopropyltoluene	99-87-6	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	19	17	18	34	19	34	34	20	34
4-Methyl-2-pentanone	108-10-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	31	28	29	55	31	55	55	32	55
Acetone	67-64-1	ug/kg	190	190	190	190	190	190	190	190	190	190	190	190	190	190	110	95	100	190	110	190	190	110	190
Acrolein	107-02-8	ug/kg	110	110	110	110	110	110	110	110	110	110	110	110	110	110	64	57	61	110	64	110	110	65	110
Benzene	71-43-2	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	19	17	18	33	19	33	33	19	33
Bromobenzene	108-86-1	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	14	13	14	26	15	26	26	15	26
Bromochloromethane	74-97-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	14	13	14	25	14	25	25	15	25
Bromoform	75-25-2	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	33	29	31	58	33	58	58	33	58
Bromomethane	74-83-9	ug/kg	71	71	71	71	71	71	71	71	71	71	71	71	71	71	40	36	38	71	40	71	71	41	71
Carbon disulfide	75-15-0	ug/kg	33	33	33	33	33	33	33	33	33	33	33	33	33	33	18	17	17	33	18	33	33	19	33
Carbon tetrachloride	56-23-5	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	14	13	14	25	14	25	25	15	25
Chlorobenzene	108-90-7	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	15	13	14	26	15	26	26	15	26
Chloroethane	75-00-3	ug/kg	52	52	52	52	52	52	52	52	52	52	52	52	52	52	29	26	28	52	29	52	52	30	52
Chloroform	67-66-3	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	15	13	14	26	15	26	26	15	26
Chloromethane	74-87-3	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	19	17	18	34	20	34	34	20	34
cis-1,2-Dichloroethene	156-59-2	ug/kg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	14	12	13	25	14	25	25	14	25
cis-1,3-Dichloropropene	10061-01-5	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	12	11	11	21	12	21	21	12	21
Dibromochloromethane	124-48-1	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	33	29	31	58	33	58	58	33	58
Dibromomethane	74-95-3	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	14	12	13	24	14	24	24	14	24
Dichlorobromomethane	75-27-4	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	100	0	100	100	0	100
Dichlorodifluoromethane	75-71-8	ug/kg	22	22	22	22	22	22	22	22	22	22	22	22	22	22	12	11	12	22	12	22	22	13	22
Ethylbenzene	100-41-4	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	20	18	19	35	20	35	35	20	35
Ethylene dibromide	106-93-4	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	12	11	11	21	12	21	21	12	21
Hexachlorobutadiene	87-68-3	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	4.5	4	4.6	49	4.8	49	49	4.6	49
Isopropylbenzene	98-82-8	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	18	16	17	32	18	32	32	19	32
Methyl ethyl ketone	78-93-3	ug/kg	58	58	58	58	58	58	58	58	58	58	58	58	58	58	33	29	31	58	33	58	58	33	58
Methyl tert butyl ether	1634-04-4	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	9	8.1	8.6	16	9.1	16	16	9.2	16
Methylene chloride	75-09-2	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	13	12	13	24	13	24	24	14	24
n-Butylbenzene	104-51-8	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	18	16	17	32	18	32	32	18	32
n-Propylbenzene	103-65-1	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	20	18	19	36	20	36	36	21	36
Naphthalene	91-20-3	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	27	24	26	48	27	48	48	28	48
o-Xylene	95-47-6	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	18	16	17	32	18	32	32	18	32
sec-Butylbenzene	135-98-8	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	20	18	19	36	20	36	36	21	36

APPENDIX C
C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS
Former Stanley Tools Facility (MID 099 124 299)
Fowlerville, MI

	Location		SD-I3	SD-J1	SD-J1	SD-J1	SD-J2	SD-J2	SD-J3	SD-J3	SD-K1	SD-K2	SD-K2	SD-K1	SD-K3	SD-K3	SD-LU3	SD-LU2	SD-LU1	SD-L1	SD-L1	SD-L1	SD-L1	SD-L1	SD-L2
	Field ID:		SDI3-1231-101503-02	SDJ1012-042203-01	SDJ11224-042203-01	SDJ11224-042203-02	SDJ2-0012-101503-01	SDJ2-1224-101503-01	SDJ3012-042203-01	SDJ31224-042203-01	SDK1-0012-101503-01	SDK2-0012-101503-01	SDK2-1224-101503-01	SDK1-1224-101503-01	SDK3-0012-101503-01	SDK3-1224-101503-01	LU-09-SD-3A 0911479-01	LU-09-SD-2A 0911479-03	LU-09-SD-1A 0911479-02	SDL1012 052003-01	L-09-SD-3A 0911479-05	SDL1012 052003-02	SDL11224 052003-01	L-09-SD-3B 0911479-06	SDL2012 052003-01
	Date Sampled:		10/15/2003	4/22/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	11/23/2009	11/23/2009	11/23/2009	5/20/2003	#########	5/20/2003	5/20/2003	#########	5/20/2003
Styrene	100-42-5	ug/kg	22	22	22	22	22	22	22	22	22	22	22	22	22	22	12	11	12	22	12	22	22	13	22
tert-Butylbenzene	98-06-6	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	19	17	18	34	19	34	34	19	34
Tetrachloroethene	127-18-4	ug/kg	45	45	45	45	45	45	45	45	45	45	45	45	45	45	25	23	24	45	25	45	45	26	45
Toluene	108-88-3	ug/kg	34	34	34	34	34	34	34	34	34	34	34	34	34	34	19	17	18	34	19	34	34	19	34
trans-1,2-Dichloroethylene	156-60-5	ug/kg	38	38	38	38	38	38	38	38	38	38	38	38	38	38	22	19	21	38	22	38	38	22	38
trans-1,3-Dichloropropene	10061-02-6	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	9.1	8.2	8.7	16	9.1	16	16	9.3	16
Trichloroethene	79-01-6	ug/kg	40	40	40	40	40	40	40	40	40	40	40	40	40	40	23	20	22	40	23	40	40	23	40
Trichlorofluoromethane	75-69-4	ug/kg	36	36	36	36	36	36	36	36	36	36	36	36	36	36	20	18	19	36	20	36	36	21	36
Vinyl chloride	75-01-4	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	16	14	15	28	16	28	28	16	28
Xylene, Meta + Para	Not Applicable	ug/kg	67	67	67	67	67	67	67	67	67	67	67	67	67	67	38	34	36	67	38	67	67	38	67
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	120-82-1	ug/kg	55	55	55	55	55	55	55	55	55	55	55	55	55	55	5.1	4.6	5.3	55	5.5	55	55	5.2	55
1,2-Benzphenanthracene	218-01-9	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	4.5	4.1	4.7	49	4.9	49	49	4.6	49
1,2-Dichlorobenzene	95-50-1	ug/kg	27	27	27	27	27	27	27	27	27	27	27	27	27	27	15	14	14	27	15	27	27	15	27
1,3-Dichlorobenzene	541-73-1	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	18	16	17	31	18	31	31	18	31
1,4-Dichlorobenzene	106-46-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	18	16	17	31	18	31	31	18	31
2,4,5-Trichlorophenol	95-95-4	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	3.2	2.9	3.3	35	3.4	35	35	3.3	35
2,4,6-Trichlorophenol	88-06-2	ug/kg	29	29	29	29	29	29	29	29	29	29	29	29	29	29	2.7	2.4	2.8	29	2.9	29	29	2.7	29
2,4-Dichlorophenol	120-83-2	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	4.4	4	4.6	48	4.7	48	48	4.5	48
2,4-Dimethylphenol	105-67-9	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	1.9	1.7	2	21	2.1	21	21	2	21
2,4-Dinitrophenol	51-28-5	ug/kg	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	140	120	140	1500	150	1500	1500	140	1500
2,4-Dinitrotoluene	121-14-2	ug/kg	270	270	270	270	270	270	270	270	270	270	270	270	270	270	24	22	25	270	26	270	270	25	270
2,6-Dinitrotoluene	606-20-2	ug/kg	32	32	32	32	32	32	32	32	32	32	32	32	32	32	3	2.7	3.1	32	3.2	32	32	3	32
2-Chloronaphthalene	91-58-7	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	2.8	2.5	2.9	31	3	31	31	2.9	31
2-Chlorophenol	95-57-8	ug/kg	53	53	53	53	53	53	53	53	53	53	53	53	53	53	4.9	4.4	5.1	53	5.3	53	53	5	53
2-Methylnaphthalene	91-57-6	ug/kg	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	0.59	0.53	0.61	6.4	0.63	6.4	6.4	0.6	6.4
2-Methylphenol	95-48-7	ug/kg	67	67	67	67	67	67	67	67	67	67	67	67	67	67	6.2	5.6	6.4	67	6.7	67	67	6.3	67
2-Nitroaniline	88-74-4	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	9.2	8.3	9.6	100	9.9	100	100	9.4	100
2-Nitrophenol	88-75-5	ug/kg	93	93	93	93	93	93	93	93	93	93	93	93	93	93	8.6	7.7	8.9	93	9.3	93	93	8.8	93
3,3-Dichlorobenzidine	91-94-1	ug/kg	390	390	390	390	390	390	390	390	390	390	390	390	390	390	36	33	38	390	39	390	390	37	390
3,4-Methylphenol	108-39-4	ug/kg	31	31	31	31	31	31	31	31	31	31	31	31	31	31	5.8	5.2	6	31	6.2	31	31	5.9	31
3-Nitroaniline	99-09-2	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	9.2	8.3	9.6	100	9.9	100	100	9.4	100
4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	290	290	290	290	290	290	290	290	290	290	290	290	290	290	26	24	27	290	28	290	290	27	290
4-Bromophenyl-phenylether	101-55-3	ug/kg	21	21	21	21	21	21	21	21	21	21	21	21	21	21	1.9	1.7	2	21	2.1	21	21	2	21
4-Chloroaniline	106-47-8	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	9.2	8.3	9.6	100	9.9	100	100	9.4	100
4-Chlorophenyl-phenylether	7005-72-3	ug/kg	47	47	47	47	47	47	47	47	47	47	47	47	47	47	4.4	3.9	4.5	47	4.7	47	47	4.5	47
4-Methylphenol	106-44-5	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	5.8	5.2	6	63	6.2	63	63	5.9	63
4-Nitroaniline	100-01-6	ug/kg	23	23	23	23	23	23	23	23	23	23	23	23	23	23	2.1	1.9	2.2	23	2.2	23	23	2.1	23
4-Nitrophenol	100-02-7	ug/kg	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	170	160	180	1900	190	1900	1900	180	1900
Acenaphthene	83-32-9	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	1	0.91	1.1	11	1.1	11	11	1	11
Acenaphthylene	208-96-8	ug/kg	24	24	24	24	24	24	24	24	24	24	24	24	24	24	2.2	2	2.3	24	2.3	24	24	2.2	24
Anthracene	120-12-7	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	100	0	100	100	0	100
Benz(a)anthracene	56-55-3	ug/kg	16	16	16	16	16	16	16	16	16	16	16	16	16	16	1.5	1.3	1.5	16	1.6	16	16	1.5	16
Benzidine	92-87-5	ug/kg	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	220	190	220	2300	230	2300	2300	220	2300
Benzo(a)pyrene	50-32-8	ug/kg	20	20	20	20	20	20	20	20	20	20	20	20	20	20	1.8	1.6	1.9	20	2	20	20	1.9	20
Benzo(b)fluoranthene	205-99-2	ug/kg	41	41	41	41	41	41	41	41	41	41	41	41	41	41	3.8	3.4	3.9	41	4.1	41	41	3.9	41
Benzo(g,h,i)perylene	191-24-2	ug/kg	13	13	13	13	13	13	13	13	13	13	13	13	13	13	1.2	1.1	1.3	13	1.3	13	13	1.2	13
Benzo(k)fluoranthene	207-08-9	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	1.7	1.5	1.7	18	1.8	18	18	1.7	18
Benzoic acid	65-85-0	ug/kg	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	170	150	170	1800	180	1800	1800	170	1800
Benzyl alcohol	100-51-6	ug/kg	63	63	63	63	63	63	63	63	63	63	63	63	63	63	5.8	5.2	6	63	6.3	63	63	6	63
bis(2-Chloroethoxy)methane	111-91-1	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	1.6	1.5	1.7	18	1.8	18	18	1.7	18
bis(2-Chloroethyl)ether	111-44-4	ug/kg	26	26	26	26	26	26	26	26	26	26	26	26	26	26	2.4	2.2	2.5	26	2.6	26	26	2.5	26
bis(2-Chloroisopropyl)ether	108-60-1	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	100	0	100	100	0	100
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	66	66	66	66	66	66	66	66	66	66	66	66	66	66	6.1	5.4	6.3	66	6.5	66	66	6.2	66
Butyl benzyl phthalate	85-68-7	ug/kg	69	69	69	69	69	69	69	69	69	69	69	69	69	69	6.4	5.7	6.6	69	6.9	69	69	6.5	69
Carbazole	86-74-8	ug/kg	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	110	98	110	1200	120	1200	1200	110	1200
Chrysene	218-01-9	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	4.5	4.1	4.7	49	4.9	49	49	4.6	49
Di-N-Butyl phthalate	84-74-2	ug/kg	350	350	350	350	350	350	350	350	350	350	350	350	350	350	32	29	34	350	35	350	350	33	350

APPENDIX C

C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS

Former Stanley Tools Facility (MID 099 124 299)

Fowlerville, MI

	Location		SD-I3	SD-J1	SD-J1	SD-J1	SD-J2	SD-J2	SD-J3	SD-J3	SD-K1	SD-K2	SD-K2	SD-K1	SD-K3	SD-K3	SD-LU3	SD-LU2	SD-LU1	SD-L1	SD-L1	SD-L1	SD-L1	SD-L1	SD-L2
	Field ID:		SDI3-1231-101503-02	SDJ1012-042203-01	SDJ11224-042203-01	SDJ11224-042203-02	SDJ2-0012-101503-01	SDJ2-1224-101503-01	SDJ3012-042203-01	SDJ31224-042203-01	SDK1-0012-101503-01	SDK2-0012-101503-01	SDK2-1224-101503-01	SDK1-1224-101503-01	SDK3-0012-101503-01	SDK3-1224-101503-01	LU-09-SD-3A 0911479-01	LU-09-SD-2A 0911479-03	LU-09-SD-1A 0911479-02	SDL1012 052003-01	L-09-SD-3A 0911479-05	SDL1012 052003-02	SDL11224 052003-01	L-09-SD-3B 0911479-06	SDL2012 052003-01
	Date Sampled:		10/15/2003	4/22/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	11/23/2009	11/23/2009	11/23/2009	5/20/2003	#########	5/20/2003	5/20/2003	#########	5/20/2003
Di-N-Octyl phthalate	117-84-0	ug/kg	75	75	75	75	75	75	75	75	75	75	75	75	75	75	6.9	6.2	7.2	75	7.5	75	75	7.1	75
Dibenz(a,h)anthracene	53-70-3	ug/kg	110	110	110	110	110	110	110	110	110	110	110	110	110	110	10	9	10	110	11	110	110	10	110
Dibenzofuran	132-64-9	ug/kg	120	120	120	120	120	120	120	120	120	120	120	120	120	120	11	10	12	120	12	120	120	12	120
Diethylphthalate	84-66-2	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	4.5	4.1	4.7	49	4.9	49	49	4.6	49
Dimethyl phthalate	131-11-3	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	1.1	1	1.2	12	1.2	12	12	1.2	12
Fluoranthene	206-44-0	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	0.99	0.89	1	11	1.1	11	11	1	11
Fluorene	86-73-7	ug/kg	97	97	97	97	97	97	97	97	97	97	97	97	97	97	8.9	8	9.3	97	9.6	97	97	9.1	97
Hexachlorobenzene	118-74-1	ug/kg	60	60	60	60	60	60	60	60	60	60	60	60	60	60	5.6	5	5.8	60	6	60	60	5.7	60
Hexachlorobutadiene	87-68-3	ug/kg	49	49	49	49	49	49	49	49	49	49	49	49	49	49	4.5	4	4.6	49	4.8	49	49	4.6	49
Hexachlorocyclopentadiene	77-47-4	ug/kg	28	28	28	28	28	28	28	28	28	28	28	28	28	28	2.6	2.4	2.7	28	2.8	28	28	2.7	28
Hexachloroethane	67-72-1	ug/kg	35	35	35	35	35	35	35	35	35	35	35	35	35	35	3.2	2.9	3.3	35	3.5	35	35	3.3	35
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	52	52	52	52	52	52	52	52	52	52	52	52	52	52	4.8	4.3	5	52	5.1	52	52	4.9	52
Isophorone	78-59-1	ug/kg	88	88	88	88	88	88	88	88	88	88	88	88	88	88	8.1	7.3	8.4	88	8.7	88	88	8.3	88
N-Nitroso-di-N-propylamine	621-64-7	ug/kg	79	79	79	79	79	79	79	79	79	79	79	79	79	79	7.3	6.6	7.6	79	7.9	79	79	7.5	79
N-Nitrosodiphenylamine	86-30-6	ug/kg	140	140	140	140	140	140	140	140	140	140	140	140	140	140	13	11	13	140	14	140	140	13	140
Naphthalene	91-20-3	ug/kg	48	48	48	48	48	48	48	48	48	48	48	48	48	48	27	24	26	48	27	48	48	28	48
Nitrobenzene	98-95-3	ug/kg	73	73	73	73	73	73	73	73	73	73	73	73	73	73	6.7	6	7	73	7.2	73	73	6.9	73
p-Chloro-m-cresol	59-50-7	ug/kg	47	47	47	47	47	47	47	47	47	47	47	47	47	47	4.3	3.9	4.5	47	4.6	47	47	4.4	47
Pentachlorophenol	87-86-5	ug/kg	620	620	620	620	620	620	620	620	620	620	620	620	620	620	57	52	60	620	62	620	620	59	620
Phenanthrene	85-01-8	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	1.4	1.2	1.4	15	1.5	15	15	1.4	15
Phenol	108-95-2	ug/kg	630	630	630	630	630	630	630	630	630	630	630	630	630	630	58	52	60	630	63	630	630	60	630
PNAs, Total	TPNA	ug/kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100				100		100	100		100
Pyrene	129-00-0	ug/kg	17	17	17	17	17	17	17	17	17	17	17	17	17	17	1.5	1.4	1.6	17	1.7	17	17	1.6	17
Polychlorinated Biphenyls (PCBs):																									
PCB-1248	12672-29-6	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	8.5	7.6	8.8	15	9.1	15	15	8.7	15
PCB-1254	11097-69-1	ug/kg	14	14	14	14	14	14	14	14	14	14	14	14	14	14	7.7	6.9	8	14	8.3	14	14	7.9	14
PCB-1260	11096-82-5	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	6.5	5.9	6.8	12	7	12	12	6.7	12
PCB, Total	TPCB	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
PCB-1016	12674-11-2	ug/kg	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	5.5	4.9	5.7	9.7	5.9	9.7	9.7	5.6	9.7
PCB-1221	11104-28-2	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	10	9.1	11	18	11	18	18	10	18
PCB-1232	11141-16-5	ug/kg	10	10	10	10	10	10	10	10	10	10	10	10	10	10	5.9	5.3	6.1	10	6.3	10	10	6	10
PCB-1242	53469-21-9	ug/kg	11	11	11	11	11	11	11	11	11	11	11	11	11	11	6	5.4	6.2	11	6.4	11	11	6.1	11
PCB-1248	12672-29-6	ug/kg	15	15	15	15	15	15	15	15	15	15	15	15	15	15	8.5	7.6	8.8	15	9.1	15	15	8.7	15
PCB-1254	11097-69-1	ug/kg	14	14	14	14	14	14	14	14	14	14	14	14	14	14	7.7	6.9	8	14	8.3	14	14	7.9	14
PCB-1260	11096-82-5	ug/kg	12	12	12	12	12	12	12	12	12	12	12	12	12	12	6.5	5.9	6.8	12	7	12	12	6.7	12
Total Metals:																									
Aluminum, Total	7429-90-5	mg/kg	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	1.8	1.8	9.2	1.8	9.2	9.2	1.8	9.2
Arsenic, Total	7440-38-2	mg/kg	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.03	0.03	0.03	0.15	0.03	0.15	0.15	0.03	0.15
Barium, Total	7440-39-3	mg/kg	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.032	0.032	0.032	0.064	0.032	0.064	0.064	0.032	0.064
Cadmium, Total	7440-43-9	mg/kg	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
Chromium, Total	7440-47-3	mg/kg	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
Copper, Total	7440-50-8	mg/kg	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
Lead, Total	7439-92-1	mg/kg	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.049	0.049	0.049	0.49	0.049	0.49	0.49	0.049	0.49
Mercury, Total	7439-97-6	mg/kg	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Nickel, Total	7440-02-0	mg/kg	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Selenium, Total	7782-49-2	mg/kg	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
Silver, Total	7440-22-4	mg/kg	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Zinc, Total	7440-66-6	mg/kg	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Chromium(VI)	18540-29-9	mg/kg	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.2	0.17	0.18	0.35	0.21	0.35	0.35	0.2	0.35
Miscellaneous Parameters:																									
Cyanide, Free	57-12-5	mg/kg	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	NA	NA	NA	0.015	NA	0.015	0.015	NA	0.015
Cyanide, Total	57-12-5	mg/kg	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.087	0.078	0.09	0.15	0.093	0.15	0.15	0.089	0.15

APPENDIX C

C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS

Former Stanley Tools Facility (MID 099 124 299)

Fowlerville, MI

	Location		SD-L2	SD-L3	SD-L3	SD-L3	SD-LD3	SD-LD2	SD-LD2	SD-LD1	SD-M1	SD-M1	SD-M2	SD-M2	SD-M3	SD-M3	SD-N3	SD-N3	SD-N2	SD-N2	SD-N2	SD-N1	SD-N1	SD-03	SD-02
	Field ID:		L-09-SD-2A 0911425-22	SDL3012 052003-01	L-09-SD-1A 0911479-04	SDL31224 052003-01	LD-09-SD-3A 0911425-21	LD-09-SD-2A 0911425-19	LD-09-SD-2B 0911425-20	LD-09-SD-1A 0911425-18	SDM1012 052003-01	SDM11224 052003-01	SDM2012 052003-01	SDM21224 052003-01	SDM3012 052003-01	SDM31224 052003-01	N-09-SD-3A 0911425-16	N-09-SD-3B 0911425-17	N-09-SD-2A 0911425-14	N-09-SD-2B 0911425-15	DUP-SD-1	N-09-SD-1A 0911425-11	N-09-SD-1B 0911425-12	0-09-SD-3A 0911425-10	0-09-SD-2A 0911425-08
	Date Sampled:		#########	5/20/2003	#########	5/20/2003	11/19/2009	11/19/2009	11/19/2009	11/19/2009	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	#########	#########	#########	#########	#########	#########	#########	#########	#########
Volatile Organic Compounds																									
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	10	21	10	21	13	11	10	11	21	21	21	21	21	21	12	12	11	13	13	11	13	13	12
1,1,1-Trichloroethane	71-55-6	ug/kg	18	36	18	36	23	19	18	20	36	36	36	36	36	36	22	21	18	22	22	20	23	22	21
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	16	32	16	32	20	17	16	18	32	32	32	32	32	32	20	18	17	20	20	18	21	20	18
1,1,2-Trichloroethane	79-00-5	ug/kg	29	58	28	58	36	31	29	32	58	58	58	58	58	58	35	33	30	36	35	32	37	35	33
1,1-Dichloroethane	75-34-3	ug/kg	14	28	14	28	18	15	14	16	28	28	28	28	28	28	17	16	14	17	17	16	18	17	16
1,1-Dichloroethene	75-35-4	ug/kg	17	33	16	33	21	18	17	18	33	33	33	33	33	33	20	19	17	21	20	18	21	20	19
1,1-Dichloropropylene	563-58-6	ug/kg	19	38	18	38	24	20	19	21	38	38	38	38	38	38	23	21	19	23	23	21	24	23	22
1,2,3-Trichlorobenzene	87-61-6	ug/kg	12	24	12	24	15	13	12	13	24	24	24	24	24	24	14	14	12	15	14	13	15	15	14
1,2,3-Trichloropropane	96-18-4	ug/kg	25	50	24	50	32	27	25	28	50	50	50	50	50	50	30	29	26	31	30	28	32	31	29
1,2,4-Trichlorobenzene	120-82-1	ug/kg	4.6	55	4.4	55	5.7	5.2	4.9	5	55	55	55	55	55	55	27	5.1	4.6	5.6	5.5	5	6.1	6.1	55
1,2,4-Trimethylbenzene	95-63-6	ug/kg	17	33	16	33	21	18	17	18	33	33	33	33	33	33	20	19	17	21	20	18	21	20	19
1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	20	40	20	40	25	21	20	22	40	40	40	40	40	40	24	23	21	25	24	22	25	25	23
1,2-Dichlorobenzene	95-50-1	ug/kg	14	27	13	27	17	14	13	15	27	27	27	27	27	27	8.2	15	14	17	16	15	17	16	17
1,2-Dichloroethane	107-06-2	ug/kg	10	20	9.7	20	13	11	9.9	11	20	20	20	20	20	20	12	11	10	12	12	11	13	12	11
1,2-Dichloroethene	540-59-0	ug/kg	32	63	31	63	40	33	31	35	63	63	63	63	63	63	38	36	32	39	38	35	40	38	36
1,2-Dichloropropane	78-87-5	ug/kg	12	25	12	25	16	13	12	14	25	25	25	25	25	25	15	14	13	15	15	14	16	15	14
1,3,5-Trimethylbenzene	108-67-8	ug/kg	15	29	14	29	18	16	15	16	29	29	29	29	29	29	18	17	15	18	18	16	19	18	17
1,3-Dichlorobenzene	541-73-1	ug/kg	16	31	15	31	20	17	16	17	31	31	31	31	31	31	7.3	18	16	19	19	17	20	19	18
1,3-Dichloropropane	142-28-9	ug/kg	9.4	19	9.1	19	12	9.9	9.3	10	19	19	19	19	19	19	11	11	9.6	12	11	10	12	11	11
1,4-Dichlorobenzene	106-46-7	ug/kg	16	31	15	31	20	17	16	17	31	31	31	31	31	31	6.1	18	16	19	19	17	20	19	18
2,2-Dichloropropane	594-20-7	ug/kg	16	33	16	33	21	17	16	18	33	33	33	33	33	33	20	19	17	20	20	18	21	20	19
2-Chlorotoluene	95-49-8	ug/kg	16	31	15	31	20	17	16	17	31	31	31	31	31	31	19	18	16	19	19	17	20	19	18
2-Hexanone	591-78-6	ug/kg	31	61	30	61	38	32	30	33	61	61	61	61	61	61	37	34	31	38	37	33	38	37	35
4-Chlorotoluene	106-43-4	ug/kg	17	33	16	33	21	17	16	18	33	33	33	33	33	33	20	19	17	20	20	18	21	20	19
4-Isopropyltoluene	99-87-6	ug/kg	17	34	17	34	21	18	17	19	34	34	34	34	34	34	21	19	17	21	21	19	22	21	19
4-Methyl-2-pentanone	108-10-1	ug/kg	28	55	27	55	35	29	27	30	55	55	55	55	55	55	33	31	28	34	33	30	35	34	31
Acetone	67-64-1	ug/kg	94	190	91	190	120	99	93	100	190	190	190	190	190	190	110	110	96	120	110	100	120	110	110
Acrolein	107-02-8	ug/kg	57	110	55	110	71	60	56	62	110	110	110	110	110	110	68	64	58	70	69	62	72	69	65
Benzene	71-43-2	ug/kg	17	33	16	33	21	18	17	18	33	33	33	33	33	33	20	19	17	20	20	18	21	20	19
Bromobenzene	108-86-1	ug/kg	13	26	13	26	16	14	13	14	26	26	26	26	26	26	16	15	13	16	16	14	16	16	15
Bromochloromethane	74-97-5	ug/kg	13	25	12	25	16	13	13	14	25	25	25	25	25	25	15	14	13	16	15	14	16	16	15
Bromoform	75-25-2	ug/kg	29	58	28	58	36	31	29	32	58	58	58	58	58	58	35	33	30	36	35	32	37	35	33
Bromomethane	74-83-9	ug/kg	36	71	35	71	45	38	35	39	71	71	71	71	71	71	43	40	36	44	43	39	45	43	41
Carbon disulfide	75-15-0	ug/kg	16	33	16	33	21	17	16	18	33	33	33	33	33	33	20	19	17	20	20	18	21	20	19
Carbon tetrachloride	56-23-5	ug/kg	13	25	12	25	16	13	13	14	25	25	25	25	25	25	15	14	13	16	15	14	16	16	15
Chlorobenzene	108-90-7	ug/kg	13	26	13	26	16	14	13	14	26	26	26	26	26	26	16	15	13	16	16	14	16	16	15
Chloroethane	75-00-3	ug/kg	26	52	25	52	33	28	26	29	52	52	52	52	52	52	31	30	27	32	32	29	33	32	30
Chloroform	67-66-3	ug/kg	13	26	13	26	17	14	13	15	26	26	26	26	26	26	16	15	14	16	16	14	17	16	15
Chloromethane	74-87-3	ug/kg	17	34	17	34	22	18	17	19	34	34	34	34	34	34	21	20	18	21	21	19	22	21	20
cis-1,2-Dichloroethene	156-59-2	ug/kg	12	25	12	25	15	13	12	14	25	25	25	25	25	25	15	14	13	15	15	13	16	15	14
cis-1,3-Dichloropropene	10061-01-5	ug/kg	11	21	10	21	13	11	11	12	21	21	21	21	21	21	13	12	11	13	13	12	13	13	12
Dibromochloromethane	124-48-1	ug/kg	29	58	28	58	36	31	29	32	58	58	58	58	58	58	35	33	30	36	35	32	37	35	33
Dibromomethane	74-95-3	ug/kg	12	24	12	24	15	13	12	13	24	24	24	24	24	24	15	14	12	15	15	13	15	15	14
Dichlorobromomethane	75-27-4	ug/kg	0	100	0	100	0	0	0	0	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0
Dichlorodifluoromethane	75-71-8	ug/kg	11	22	11	22	14	12	11	12	22	22	22	22	22	22	13	12	11	14	13	12	14	13	12
Ethylbenzene	100-41-4	ug/kg	18	35	17	35	22	18	17	19	35	35	35	35	35	35	21	20	18	21	21	19	22	21	20
Ethylene dibromide	106-93-4	ug/kg	11	21	10	21	13	11	11	12	21	21	21	21	21	21	13	12	11	13	13	12	13	13	12
Hexachlorobutadiene	87-68-3	ug/kg	4	49	3.9	49	5	4.5	4.3	4.4	49	49	49	49	49	49	29	4.5	4.1	4.9	4.8	4.4	5.4	5.3	49
Isopropylbenzene	98-82-8	ug/kg	16	32	16	32	20	17	16	18	32	32	32	32	32	32	19	18	16	20	19	18	20	20	18
Methyl ethyl ketone	78-93-3	ug/kg	29	58	28	58	37	31	29	32	58	58	58	58	58	58	35	33	30	36	35	32	37	35	33
Methyl tert butyl ether	1634-04-4	ug/kg	8.1	16	7.8	16	10	8.5	8	8.9	16	16	16	16	16	16	9.7	9.1	8.2	9.9	9.7	8.8	10	9.8	9.2
Methylene chloride	75-09-2	ug/kg	12	24	11	24	15	12	12	13	24	24	24	24	24	24	14	13	12	15	14	13	15	14	13
n-Butylbenzene	104-51-8	ug/kg	16	32	16	32	20	17	16	18	32	32	32	32	32	32	19	18	16	20	19	18	20	20	18
n-Propylbenzene	103-65-1	ug/kg	18	36	18	36	23	19	18	20	36	36	36	36	36	36	22	21	18	22	22	20	23	22	21
Naphthalene	91-20-3	ug/kg	24	48	23	48	30	25	24	26	48	48	48	48	48	48	29	27	25	30	29	26	30	3.2	29
o-Xylene	95-47-6	ug/kg	16	32	16	32	20	17	16	18	32	32	32	32	32	32	19	18	16	20	19	18	20	20	18
sec-Butylbenzene	135-98-8	ug/kg	18	36	17	36	22	19	18	20	36	36	36	36	36	36	22	20	18	22	22	20	23	22	20

APPENDIX C

C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS

Former Stanley Tools Facility (MID 099 124 299)

Fowlerville, MI

	Location		SD-L2	SD-L3	SD-L3	SD-L3	SD-LD3	SD-LD2	SD-LD2	SD-LD1	SD-M1	SD-M1	SD-M2	SD-M2	SD-M3	SD-M3	SD-N3	SD-N3	SD-N2	SD-N2	SD-N2	SD-N1	SD-N1	SD-03	SD-02
	Field ID:		L-09-SD-2A 0911425-22	SDL3012 052003-01	L-09-SD-1A 0911479-04	SDL31224 052003-01	LD-09-SD-3A 0911425-21	LD-09-SD-2A 0911425-19	LD-09-SD-2B 0911425-20	LD-09-SD-1A 0911425-18	SDM1012 052003-01	SDM11224 052003-01	SDM2012 052003-01	SDM21224 052003-01	SDM3012 052003-01	SDM31224 052003-01	N-09-SD-3A 0911425-16	N-09-SD-3B 0911425-17	N-09-SD-2A 0911425-14	N-09-SD-2B 0911425-15	DUP-SD-1	N-09-SD-1A 0911425-11	N-09-SD-1B 0911425-12	0-09-SD-3A 0911425-10	0-09-SD-2A 0911425-08
	Date Sampled:		#########	5/20/2003	#########	5/20/2003	11/19/2009	11/19/2009	11/19/2009	11/19/2009	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	#########	#########	#########	#########	#########	#########	#########	#########	#########
Styrene	100-42-5	ug/kg	11	22	11	22	14	11	11	12	22	22	22	22	22	22	13	12	11	13	13	12	14	13	12
tert-Butylbenzene	98-06-6	ug/kg	17	34	16	34	21	18	17	19	34	34	34	34	34	34	20	19	17	21	20	19	21	21	19
Tetrachloroethene	127-18-4	ug/kg	23	45	22	45	28	24	22	25	45	45	45	45	45	45	27	25	23	28	27	25	28	27	25
Toluene	108-88-3	ug/kg	17	34	16	34	21	18	17	19	34	34	34	34	34	34	20	19	17	21	20	19	21	21	19
trans-1,2-Dichloroethylene	156-60-5	ug/kg	19	38	19	38	24	20	19	21	38	38	38	38	38	38	23	22	20	24	23	21	24	23	22
trans-1,3-Dichloropropene	10061-02-6	ug/kg	8.2	16	7.9	16	10	8.6	8.1	8.9	16	16	16	16	16	16	9.8	9.2	8.3	10	9.8	8.9	10	9.9	9.2
Trichloroethene	79-01-6	ug/kg	20	40	20	40	25	21	20	22	40	40	40	40	40	40	24	23	21	25	25	22	26	25	23
Trichlorofluoromethane	75-69-4	ug/kg	18	36	17	36	23	19	18	20	36	36	36	36	36	36	22	20	18	22	22	20	23	22	20
Vinyl chloride	75-01-4	ug/kg	14	28	14	28	18	15	14	16	28	28	28	28	28	28	17	16	14	17	17	16	18	17	16
Xylene, Meta + Para	Not Applicable	ug/kg	34	67	33	67	42	35	33	37	67	67	67	67	67	67	40	38	34	41	41	37	42	41	38
Semi-Volatile Organic Compounds																									
1,2,4-Trichlorobenzene	120-82-1	ug/kg	4.6	55	4.4	55	5.7	5.2	4.9	5	55	55	55	55	55	55	27	5.1	4.6	5.6	5.5	5	6.1	6.1	55
1,2-Benzphenanthracene	218-01-9	ug/kg	4.1	49	3.9	49	5.1	4.6	4.4	4.4	49	49	49	49	49	49	24	4.6	4.1	5	4.9	4.4	5.5	5.4	49
1,2-Dichlorobenzene	95-50-1	ug/kg	14	27	13	27	17	14	13	15	27	27	27	27	27	27	8.2	15	14	17	16	15	17	16	17
1,3-Dichlorobenzene	541-73-1	ug/kg	16	31	15	31	20	17	16	17	31	31	31	31	31	31	7.3	18	16	19	19	17	20	19	18
1,4-Dichlorobenzene	106-46-7	ug/kg	16	31	15	31	20	17	16	17	31	31	31	31	31	31	6.1	18	16	19	19	17	20	19	18
2,4,5-Trichlorophenol	95-95-4	ug/kg	2.9	35	2.8	35	3.6	3.3	3.1	3.1	35	35	35	35	35	35	17	3.2	2.9	3.5	3.4	3.1	3.9	3.8	35
2,4,6-Trichlorophenol	88-06-2	ug/kg	2.4	29	2.3	29	3	2.7	2.6	2.6	29	29	29	29	29	29	14	2.7	2.4	2.9	2.9	2.6	3.2	3.2	29
2,4-Dichlorophenol	120-83-2	ug/kg	3.9	48	3.8	48	4.9	4.5	4.3	4.3	48	48	48	48	48	48	24	4.4	4	4.8	4.7	4.3	5.3	5.3	48
2,4-Dimethylphenol	105-67-9	ug/kg	1.7	21	1.7	21	2.2	2	1.9	1.9	21	21	21	21	21	21	10	2	1.8	2.1	2.1	1.9	2.3	2.3	21
2,4-Dinitrophenol	51-28-5	ug/kg	120	1500	120	1500	150	140	130	130	1500	1500	1500	1500	1500	1500	730	140	120	150	150	130	160	160	1500
2,4-Dinitrotoluene	121-14-2	ug/kg	22	270	21	270	27	25	24	24	270	270	270	270	270	270	130	25	22	27	26	24	29	29	270
2,6-Dinitrotoluene	606-20-2	ug/kg	2.7	32	2.6	32	3.3	3	2.9	2.9	32	32	32	32	32	32	16	3	2.7	3.3	3.2	2.9	3.6	3.5	32
2-Chloronaphthalene	91-58-7	ug/kg	2.5	31	2.4	31	3.2	2.9	2.7	2.8	31	31	31	31	31	31	15	2.9	2.6	3.1	3	2.8	3.4	3.4	31
2-Chlorophenol	95-57-8	ug/kg	4.4	53	4.2	53	5.5	5	4.7	4.8	53	53	53	53	53	53	26	4.9	4.5	5.4	5.3	4.8	5.9	5.8	53
2-Methylnaphthalene	91-57-6	ug/kg	0.53	6.4	0.51	6.4	0.66	0.6	0.57	0.58	6.4	6.4	6.4	6.4	6.4	6.4	3.2	0.6	0.54	0.65	0.63	0.58	0.71	0.7	6.4
2-Methylphenol	95-48-7	ug/kg	5.6	67	5.4	67	6.9	6.3	6	6.1	67	67	67	67	67	67	33	6.3	5.6	6.8	6.7	6.1	7.5	7.4	67
2-Nitroaniline	88-74-4	ug/kg	8.3	100	8	100	10	9.4	8.9	9	100	100	100	100	100	100	50	9.3	8.4	10	9.9	9	11	11	100
2-Nitrophenol	88-75-5	ug/kg	7.7	93	7.4	93	9.6	8.7	8.3	8.4	93	93	93	93	93	93	46	8.7	7.8	9.5	9.3	8.4	10	10	93
3,3-Dichlorobenzidine	91-94-1	ug/kg	32	390	31	390	40	37	35	35	390	390	390	390	390	390	190	37	33	40	39	35	44	43	390
3,4-Methylphenol	108-39-4	ug/kg	5.2	31	5	31	6.4	5.9	5.6	5.7	31	31	31	31	31	31	31	5.8	5.3	6.3	6.2	5.6	6.9	6.9	6.3
3-Nitroaniline	99-09-2	ug/kg	8.3	100	8	100	10	9.4	8.9	9	100	100	100	100	100	100	49	9.3	8.4	10	9.9	9	11	11	100
4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	24	290	23	290	30	27	26	26	290	290	290	290	290	290	140	27	24	29	28	26	32	32	290
4-Bromophenyl-phenylether	101-55-3	ug/kg	1.7	21	1.7	21	2.2	2	1.9	1.9	21	21	21	21	21	21	10	2	1.8	2.1	2.1	1.9	2.3	2.3	21
4-Chloroaniline	106-47-8	ug/kg	8.3	100	8	100	10	9.3	8.9	9	100	100	100	100	100	100	49	9.3	8.4	10	9.9	9	11	11	100
4-Chlorophenyl-phenylether	7005-72-3	ug/kg	3.9	47	3.8	47	4.9	4.4	4.2	4.3	47	47	47	47	47	47	23	4.4	4	4.8	4.7	4.3	5.3	5.2	47
4-Methylphenol	106-44-5	ug/kg	5.2	63	5	63	6.4	5.9	5.6	5.7	63	63	63	63	63	63	31	5.8	5.3	6.3	6.2	5.6	6.9	6.9	63
4-Nitroaniline	100-01-6	ug/kg	1.9	23	1.8	23	2.3	2.1	2	2	23	23	23	23	23	23	11	2.1	1.9	2.3	2.2	2	2.5	2.5	23
4-Nitrophenol	100-02-7	ug/kg	160	1900	150	1900	190	180	170	170	1900	1900	1900	1900	1900	1900	930	170	160	190	190	170	210	210	1900
Acenaphthene	83-32-9	ug/kg	0.91	11	0.88	11	1.1	1	0.98	0.99	11	11	11	11	11	11	5.4	1	0.92	1.1	1.1	0.99	1.2	1.2	11
Acenaphthylene	208-96-8	ug/kg	2	24	1.9	24	2.4	2.2	2.1	2.1	24	24	24	24	24	24	12	2.2	2	2.4	2.3	2.1	2.6	2.6	24
Anthracene	120-12-7	ug/kg	0	100	0	100	0	0	0	0	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0
Benz(a)anthracene	56-55-3	ug/kg	1.3	16	1.3	16	1.6	1.5	1.4	1.4	16	16	16	16	16	16	7.9	1.5	1.3	1.6	1.6	1.4	1.8	1.8	16
Benzidine	92-87-5	ug/kg	190	2300	190	2300	240	220	210	210	2300	2300	2300	2300	2300	2300	1200	220	200	240	230	210	260	260	2300
Benzo(a)pyrene	50-32-8	ug/kg	1.6	20	1.6	20	2	1.9	1.8	1.8	20	20	20	20	20	20	9.8	1.8	1.7	2	2	1.8	2.2	2.2	20
Benzo(b)fluoranthene	205-99-2	ug/kg	3.4	41	3.3	41	4.2	3.9	3.7	3.7	41	41	41	41	41	41	20	3.8	3.5	4.2	4.1	3.7	4.6	4.5	41
Benzo(g,h,i)perylene	191-24-2	ug/kg	1.1	13	1.1	13	1.4	1.2	1.2	1.2	13	13	13	13	13	13	6.5	1.2	1.1	1.3	1.3	1.2	1.5	1.5	13
Benzo(k)fluoranthene	207-08-9	ug/kg	1.5	18	1.5	18	1.9	1.7	1.6	1.6	18	18	18	18	18	18	9	1.7	1.5	1.8	1.8	1.6	2	2	18
Benzoic acid	65-85-0	ug/kg	150	1800	150	1800	190	170	160	160	1800	1800	1800	1800	1800	1800	900	170	150	180	180	160	200	200	1800
Benzyl alcohol	100-51-6	ug/kg	5.2	63	5	63	6.5	5.9	5.6	5.7	63	63	63	63	63	63	31	5.9	5.3	6.4	6.3	5.7	7	7	63
bis(2-Chloroethoxy)methane	111-91-1	ug/kg	1.5	18	1.4	18	1.8	1.7	1.6	1.6	18	18	18	18	18	18	8.7	1.6	1.5	1.8	1.8	1.6	2	1.9	18
bis(2-Chloroethyl)ether	111-44-4	ug/kg	2.2	26	2.1	26	2.7	2.5	2.4	2.4	26	26	26	26	26	26	13	2.5	2.2	2.7	2.6	2.4	2.9	2.9	26
bis(2-Chloroisopropyl)ether	108-60-1	ug/kg	0	100	0	100	0	0	0	0	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	5.4	66	5.2	66	6.8	6.1	5.9	5.9	66	66	66	66	66	66	32	6.1	5.5	6.7	6.5	5.9	7.3	7.2	66
Butyl benzyl phthalate	85-68-7	ug/kg	5.7	69	5.5	69	7.1	6.5	6.2	6.3	69	69	69	69	69	69	34	6.4	5.8	7	6.9	6.2	7.7	7.6	69
Carbazole	86-74-8	ug/kg	98	1200	94	1200	120	110	110	110	1200	1200	1200	1200	1200	1200	580	110	99	120	120	110	130	130	1200
Chrysene	218-01-9	ug/kg	4.1	49	3.9	49	5.1	4.6	4.4	4.4	49	49	49	49	49	49	24	4.6	4.1	5	4.9	4.4	5.5	5.4	49
Di-N-Butyl phthalate	84-74-2	ug/kg	29	350	28	350	36	33	31	32	350	350	350	350	350	350	170	33	29	36	35	32	39	39	350

APPENDIX C

C1. IN-CHANNEL SWAC CALCULATION SUPPORT DATA - METHOD DETECTION LIMITS

Former Stanley Tools Facility (MID 099 124 299)

Fowlerville, MI

	Location		SD-L2	SD-L3	SD-L3	SD-L3	SD-LD3	SD-LD2	SD-LD2	SD-LD1	SD-M1	SD-M1	SD-M2	SD-M2	SD-M3	SD-M3	SD-N3	SD-N3	SD-N2	SD-N2	SD-N2	SD-N1	SD-N1	SD-03	SD-02
	Field ID:		L-09-SD-2A 0911425-22	SDL3012 052003-01	L-09-SD-1A 0911479-04	SDL31224 052003-01	LD-09-SD-3A 0911425-21	LD-09-SD-2A 0911425-19	LD-09-SD-2B 0911425-20	LD-09-SD-1A 0911425-18	SDM1012 052003-01	SDM11224 052003-01	SDM2012 052003-01	SDM21224 052003-01	SDM3012 052003-01	SDM31224 052003-01	N-09-SD-3A 0911425-16	N-09-SD-3B 0911425-17	N-09-SD-2A 0911425-14	N-09-SD-2B 0911425-15	DUP-SD-1	N-09-SD-1A 0911425-11	N-09-SD-1B 0911425-12	0-09-SD-3A 0911425-10	0-09-SD-2A 0911425-08
	Date Sampled:		#########	5/20/2003	#########	5/20/2003	11/19/2009	11/19/2009	11/19/2009	11/19/2009	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	5/20/2003	#########	#########	#########	#########	#########	#########	#########	#########	#########
Di-N-Octyl phthalate	117-84-0	ug/kg	6.2	75	6	75	7.7	7	6.7	6.8	75	75	75	75	75	75	37	7	6.3	7.6	7.5	6.8	8.3	8.3	75
Dibenz(a,h)anthracene	53-70-3	ug/kg	9	110	8.7	110	11	10	9.7	9.8	110	110	110	110	110	110	54	10	9.1	11	11	9.8	12	12	110
Dibenzofuran	132-64-9	ug/kg	10	120	9.9	120	13	12	11	11	120	120	120	120	120	120	61	12	10	13	12	11	14	14	120
Diethylphthalate	84-66-2	ug/kg	4.1	49	3.9	49	5	4.6	4.4	4.4	49	49	49	49	49	49	24	4.6	4.1	5	4.9	4.4	5.4	5.4	49
Dimethyl phthalate	131-11-3	ug/kg	1	12	0.98	12	1.3	1.1	1.1	1.1	12	12	12	12	12	12	6.1	1.1	1	1.2	1.2	1.1	1.4	1.3	12
Fluoranthene	206-44-0	ug/kg	0.89	11	0.86	11	1.1	1	0.96	0.97	11	11	11	11	11	11	5.3	1	0.9	1.1	1.1	0.97	1.2	1.2	11
Fluorene	86-73-7	ug/kg	8	97	7.7	97	10	9.1	8.6	8.8	97	97	97	97	97	97	48	9	8.1	9.8	9.6	8.7	11	11	97
Hexachlorobenzene	118-74-1	ug/kg	5	60	4.8	60	6.2	5.6	5.4	5.4	60	60	60	60	60	60	30	5.6	5.1	6.1	6	5.4	6.7	6.6	60
Hexachlorobutadiene	87-68-3	ug/kg	4	49	3.9	49	5	4.5	4.3	4.4	49	49	49	49	49	49	29	4.5	4.1	4.9	4.8	4.4	5.4	5.3	49
Hexachlorocyclopentadiene	77-47-4	ug/kg	2.3	28	2.3	28	2.9	2.7	2.5	2.6	28	28	28	28	28	28	14	2.6	2.4	2.9	2.8	2.6	3.2	3.1	28
Hexachloroethane	67-72-1	ug/kg	2.9	35	2.8	35	3.6	3.3	3.1	3.2	35	35	35	35	35	35	17	3.2	2.9	3.5	3.5	3.1	3.9	3.8	35
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.3	52	4.1	52	5.3	4.9	4.6	4.7	52	52	52	52	52	52	26	4.8	4.4	5.3	5.1	4.7	5.8	5.7	52
Isophorone	78-59-1	ug/kg	7.3	88	7	88	9	8.2	7.8	7.9	88	88	88	88	88	88	43	8.2	7.4	8.9	8.7	7.9	9.7	9.7	88
N-Nitroso-di-N-propylamine	621-64-7	ug/kg	6.6	79	6.3	79	8.2	7.4	7.1	7.2	79	79	79	79	79	79	39	7.4	6.7	8	7.9	7.1	8.8	8.7	79
N-Nitrosodiphenylamine	86-30-6	ug/kg	11	140	11	140	14	13	12	12	140	140	140	140	140	140	68	13	11	14	14	12	15	15	140
Naphthalene	91-20-3	ug/kg	24	48	23	48	30	25	24	26	48	48	48	48	48	48	29	27	25	30	29	26	30	3.2	29
Nitrobenzene	98-95-3	ug/kg	6	73	5.8	73	7.5	6.8	6.5	6.6	73	73	73	73	73	73	36	6.8	6.1	7.4	7.2	6.5	8.1	8	73
p-Chloro-m-cresol	59-50-7	ug/kg	3.9	47	3.7	47	4.8	4.4	4.2	4.2	47	47	47	47	47	47	23	4.3	3.9	4.7	4.6	4.2	5.2	5.1	47
Pentachlorophenol	87-86-5	ug/kg	52	620	50	620	64	58	55	56	620	620	620	620	620	620	310	58	52	63	62	56	69	69	620
Phenanthrene	85-01-8	ug/kg	1.2	15	1.2	15	1.5	1.4	1.3	1.3	15	15	15	15	15	15	7.3	1.4	1.2	1.5	1.5	1.3	1.6	1.6	15
Phenol	108-95-2	ug/kg	52	630	50	630	65	59	56	57	630	630	630	630	630	630	310	59	53	64	63	57	70	70	630
PNAs, Total	TPNA	ug/kg		100		100					100	100	100	100	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	ug/kg	1.4	17	1.3	17	1.7	1.6	1.5	1.5	17	17	17	17	17	17	8.3	1.6	1.4	1.7	1.7	1.5	1.9	1.9	17
Polychlorinated Biphenyls (PCBs):																									
PCB-1248	12672-29-6	ug/kg	7.6	15	7.3	15	9.5	8.6	8.2	8.3	15	15	15	15	15	15	9.1	8.5	7.7	9.3	9.1	8.3	10	10	9.2
PCB-1254	11097-69-1	ug/kg	6.9	14	6.6	14	8.6	7.8	7.4	7.5	14	14	14	14	14	14	8.2	7.8	7	8.5	8.3	7.5	9.2	9.2	8.3
PCB-1260	11096-82-5	ug/kg	5.8	12	5.6	12	7.3	6.6	6.3	6.4	12	12	12	12	12	12	7	6.6	5.9	7.2	7	6.4	7.8	7.8	7.1
PCB, Total	TPCB	ug/kg	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
PCB-1016	12674-11-2	ug/kg	4.9	9.7	4.7	9.7	6.1	5.6	5.3	5.4	9.7	9.7	9.7	9.7	9.7	9.7	5.9	5.5	5	6	5.9	5.3	6.6	6.5	5.9
PCB-1221	11104-28-2	ug/kg	9.1	18	8.8	18	11	10	9.8	9.9	18	18	18	18	18	18	11	10	9.2	11	11	9.9	12	12	11
PCB-1232	11141-16-5	ug/kg	5.3	10	5.1	10	6.5	5.9	5.7	5.7	10	10	10	10	10	10	6.3	5.9	5.3	6.4	6.3	5.7	7.1	7	6.4
PCB-1242	53469-21-9	ug/kg	5.4	11	5.2	11	6.7	6.1	5.8	5.9	11	11	11	11	11	11	6.4	6	5.5	6.6	6.4	5.8	7.2	7.2	6.5
PCB-1248	12672-29-6	ug/kg	7.6	15	7.3	15	9.5	8.6	8.2	8.3	15	15	15	15	15	15	9.1	8.5	7.7	9.3	9.1	8.3	10	10	9.2
PCB-1254	11097-69-1	ug/kg	6.9	14	6.6	14	8.6	7.8	7.4	7.5	14	14	14	14	14	14	8.2	7.8	7	8.5	8.3	7.5	9.2	9.2	8.3
PCB-1260	11096-82-5	ug/kg	5.8	12	5.6	12	7.3	6.6	6.3	6.4	12	12	12	12	12	12	7	6.6	5.9	7.2	7	6.4	7.8	7.8	7.1
Total Metals:																									
Aluminum, Total	7429-90-5	mg/kg	1.8	9.2	1.8	9.2	1.8	1.8	1.8	1.8	9.2	9.2	9.2	9.2	9.2	9.2	1.8	1.8	1.7	1.8	1.8	1.7	1.8	1.8	1.7
Arsenic, Total	7440-38-2	mg/kg	0.03	0.15	0.03	0.15	0.03	0.028	0.03	0.03	0.15	0.15	0.15	0.15	0.15	0.15	0.03	0.03	0.03	0.03	0.027	0.03	0.028	0.03	0.03
Barium, Total	7440-39-3	mg/kg	0.032	0.064	0.032	0.064	0.032	0.03	0.032	0.032	0.064	0.064	0.064	0.064	0.064	0.064	0.032	0.032	0.032	0.032	0.029	0.032	0.03	0.032	0.032
Cadmium, Total	7440-43-9	mg/kg	0.0053	0.0053	0.0053	0.0053	0.0053	0.005	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0049	0.0053	0.0049	0.0053	0.0053
Chromium, Total	7440-47-3	mg/kg	0.045	0.045	0.045	0.045	0.045	0.042	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.041	0.045	0.042	0.045	0.045
Copper, Total	7440-50-8	mg/kg	0.043	0.043	0.043	0.043	0.043	0.041	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.04	0.043	0.04	0.043	0.043
Lead, Total	7439-92-1	mg/kg	0.049	0.49	0.049	0.49	0.049	0.046	0.49	0.049	0.49	0.49	0.49	0.49	0.49	0.49	0.049	0.049	0.049	0.049	0.045	0.049	0.046	0.049	0.049
Mercury, Total	7439-97-6	mg/kg	0.0074	0.008	0.008	0.008	0.008	0.008	0.0075	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.0075	0.0075	0.008	0.008	0.008	0.0074	0.008	0.008
Nickel, Total	7440-02-0	mg/kg	0.025	0.025	0.025	0.025	0.025	0.024	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.023	0.025	0.023	0.025	0.025
Selenium, Total	7782-49-2	mg/kg	0.049	0.049	0.049	0.049	0.049	0.046	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.045	0.049	0.046	0.049	0.049
Silver, Total	7440-22-4	mg/kg	0.011	0.011	0.011	0.011	0.011	0.01	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.0099	0.011	0.01	0.011	0.011
Zinc, Total	7440-66-6	mg/kg	0.44	0.44	0.44	0.44	0.44	0.41	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.4	0.44	0.41	0.44	0.44
Chromium(VI)	18540-29-9	mg/kg	0.18	0.35	0.17	0.35	0.22	0.2	0.18	0.18	0.35	0.35	0.35	0.35	0.35	0.35	0.19	0.2	0.17	0.22	0.2	0.19	0.24	0.24	0.22
Miscellaneous Parameters:																									
Cyanide, Free	57-12-5	mg/kg	0.015	0.015	NA	0.015	NA	NA	NA	NA	0.015	0.015	0.015	0.015	0.015	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	57-12-5	mg/kg	0.078	0.15	0.075	0.15	0.097	0.088	0.084	0.085	0.15	0.15	0.15	0.15	0.15	0.15	0.093	0.088	0.079	0.096	0.093	0.085	0.1	0.1	0.094