Table 1. Drinking Water and Internal Pipe Crust Results - Detected VOCs and SVOCs
Water and Internal Crust Samples from Sites Near Dodge Avenue Water Main Replacement, Illinois
SCS Engineers Project #25214107.00

(Results are in µg/L)

Site	Media	Date Collected	Lab Report Date	Lab Report Number	Compound	Type	Value (ug/l)	Lab Method Detection Limit (ug/l)	IEPA Reporting Limit (ug/l)	Lab Reporting Limit (ug/l) different tha IEPA)
								Bold font if exceeded	Bold font if exceeded	Bold font if exceeded
Site 1 E	Water	9/4/2015	9/18/2015	680-116473-7	Bromoform	VOC	0.66	**0.17**	1	**0.5**
Site 1 E	Water	9/4/2015	9/18/2015	680-116473-7	Chlorodibromomethane	VOC	4.7	**0.13**	**1**	**0.5**
Site 1 E	Water	9/4/2015	9/18/2015	680-116473-7	Chloroform	VOC	11	**0.2**	**1**	**0.5**
Site 1 E	Water	9/4/2015	9/18/2015	680-116473-7	Dichlorobromomethane	VOC	8.5	**0.079**	**1**	**0.5**
Site 1 E	Water	9/4/2015	9/18/2015	680-116473-7	Atrazine	SVOC	.043 J	**0.021**	0.3	0.19
Site 1 E	Water	9/4/2015	9/18/2015	680-116473-7	Fluoranthene	SVOC	0.02 J	**0.019**		0.19
Site 1 E	Water	9/4/2015	9/18/2015	680-116473-7	Phenanthrene	SVOC	0.028 J	**0.019**		0.19
Site 1 L	Water	9/4/2015	9/18/2015	680-116473-8	Bromoform	VOC	0.5	**0.17**	1	**0.5**
Site 1 L	Water	9/4/2015	9/18/2015	680-116473-8	Chlorodibromomethane	VOC	4.5	**0.13**	**1**	**0.5**
Site 1 L	Water	9/4/2015	9/18/2015	680-116473-8	Chloroform	VOC	10	**0.2**	**1**	**0.5**
Site 1 L	Water	9/4/2015	9/18/2015	680-116473-8	Dichlorobromomethane	VOC	8.1	**0.079**	**1**	**0.5**
Site 1 L	Water	9/4/2015	9/18/2015	680-116473-8	Fluoranthene	SVOC	.022 J	**0.019**		0.19
Site 1 L	Water	9/4/2015	9/18/2015	680-116473-8	Phenanthrene	SVOC	.042 J	**0.019**		0.19
Site 2 E	Water	9/4/2015	9/18/2015	680-116473-1	Bromoform	VOC	0.61	**0.17**	1	**0.5**
Site 2 E	Water	9/4/2015	9/18/2015	680-116473-1	Chlorodibromomethane	VOC	4.7	**0.13**	**1**	**0.5**
Site 2 E	Water	9/4/2015	9/18/2015	680-116473-1	Chloroform	VOC	11	**0.2**	**1**	**0.5**
Site 2 E	Water	9/4/2015	9/18/2015	680-116473-1	Dichlorobromomethane	VOC	8.5	**0.079**	**1**	**0.5**
Site 2 E	Water	9/4/2015	9/18/2015	680-116473-1	Atrazine	SVOC	.042 J	**0.021**	0.3	0.19
Site 2 L	Water	9/4/2015	9/18/2015	680-116473-2	Bromoform	VOC	0.55	**0.17**	1	**0.5**
Site 2 L	Water	9/4/2015	9/18/2015	680-116473-2	Chlorodibromomethane	VOC	4.7	**0.13**	**1**	**0.5**
Site 2 L	Water	9/4/2015	9/18/2015	680-116473-2	Chloroform	VOC	11	**0.2**	**1**	**0.5**
Site 2 L	Water	9/4/2015	9/18/2015	680-116473-2	Dichlorobromomethane	VOC	8.4	**0.079**	**1**	**0.5**
Site 2 L	Water	9/4/2015	9/18/2015	680-116473-2	Atrazine	SVOC	.069 J	**0.021**	0.3	0.19
Site 3 E	Water	9/4/2015	9/18/2015	680-116473-9	Bromoform	VOC	0.55	**0.17**	1	**0.5**
Site 3 E	Water	9/4/2015	9/18/2015	680-116473-9	Chlorodibromomethane	VOC	5.2	**0.13**	**1**	**0.5**
Site 3 E	Water	9/4/2015	9/18/2015	680-116473-9	Chloroform	VOC	13	**0.2**	**1**	**0.5**
Site 3 E	Water	9/4/2015	9/18/2015	680-116473-9	Dichlorobromomethane	VOC	9.6	**0.079**	**1**	**0.5**
Site 3 E	Water	9/4/2015	9/18/2015	680-116473-9	Atrazine	SVOC	.046 J	**0.021**	0.3	0.19
Site 3 L	Water	9/4/2015	9/18/2015	680-116473-10	Bromoform	VOC	0.51	**0.17**	1	**0.5**
Site 3 L	Water	9/4/2015	9/18/2015	680-116473-10	Chlorodibromomethane	VOC	4	**0.13**	**1**	**0.5**
Site 3 L	Water	9/4/2015	9/18/2015	680-116473-10	Chloroform	VOC	10	**0.2**	**1**	**0.5**
Site 3 L	Water	9/4/2015	9/18/2015	680-116473-10	Dichlorobromomethane	VOC	7.4	**0.079**	**1**	**0.5**
Site 4 E	Water	9/4/2015	9/18/2015	680-116473-11	Bromoform	VOC	.41 J	**0.17**	1	0.5
Site 4 E	Water	9/4/2015	9/18/2015	680-116473-11	Chlorodibromomethane	VOC	4	**0.13**	**1**	**0.5**
Site 4 E	Water	9/4/2015	9/18/2015	680-116473-11	Chloroform	VOC	8.3	**0.2**	**1**	**0.5**
Site 4 E	Water	9/4/2015	9/18/2015	680-116473-11	Dichlorobromomethane	VOC	6.9	**0.079**	**1**	**0.5**
Site 4 E	Water	9/4/2015	9/18/2015	680-116473-11	Atrazine	SVOC	0.043 J	**0.021**	0.3	0.19
Site 4 L	Water	9/4/2015	9/18/2015	680-116473-12	Bromoform	VOC	0.56	**0.17**	1	**0.5**
Site 4 L	Water	9/4/2015	9/18/2015	680-116473-12	Chlorodibromomethane	VOC	4.8	**0.13**	**1**	**0.5**
Site 4 L	Water	9/4/2015	9/18/2015	680-116473-12	Chloroform	VOC	11	**0.2**	**1**	**0.5**
Site 4 L	Water	9/4/2015	9/18/2015	680-116473-12	Dichlorobromomethane	VOC	8.6	**0.079**	**1**	**0.5**
Site 5 E	Water	9/4/2015	9/18/2015	680-116473-4	Bromoform	VOC	0.67	**0.17**	1	**0.5**
Site 5 E	Water	9/4/2015	9/18/2015	680-116473-4	Chlorodibromomethane	VOC	5.2	**0.13**	**1**	**0.5**
Site 5 E	Water	9/4/2015	9/18/2015	680-116473-4	Chloroform	VOC	13	**0.2**	**1**	**0.5**
Site 5 E	Water	9/4/2015	9/18/2015	680-116473-4	Dichlorobromomethane	VOC	9.2	**0.079**	**1**	**0.5**
Site 5 E	Water	9/4/2015	9/18/2015	680-116473-4	Atrazine	SVOC	0.052 J	**0.021**	0.3	0.19

Site 5 E	Water	9/4/2015	9/18/2015	680-116473-4	Bis(2-ethylhexyl) phthalate	SVOC	.66 J	0.58		1.9
Site 5 L	Water	9/4/2015	9/18/2015	680-116473-5	Bromoform	VOC	0.69	0.17	1	0.5
Site 5 L	Water	9/4/2015	9/18/2015	680-116473-5	Chlorodibromomethane	VOC	5.2	0.13	1	0.5
Site 5 L	Water	9/4/2015	9/18/2015	680-116473-5	Chloroform	VOC	13	0.2	1	0.5
Site 5 L	Water	9/4/2015	9/18/2015	680-116473-5	Dichlorobromomethane	VOC	9.5	0.079	1	0.5
Site 5 L	Water	9/4/2015	9/18/2015	680-116473-5	Atrazine	SVOC	0.055 J	0.021	0.3	0.19
Site 6 E	Water	9/4/2015	9/18/2015	680-116473-14	Bromoform	VOC	.44 J	0.17	1	0.5
Site 6 E	Water	9/4/2015	9/18/2015	680-116473-14	Chlorodibromomethane	VOC	3.2	0.13	1	0.5
Site 6 E	Water	9/4/2015	9/18/2015	680-116473-14	Chloroform	VOC	4.7	0.2	1	0.5
Site 6 E	Water	9/4/2015	9/18/2015	680-116473-14	Dichlorobromomethane	VOC	5.1	0.079	1	0.5
Site 6 E	Water	9/4/2015	9/18/2015	680-116473-14	Atrazine	SVOC	0.037 J	0.021	0.3	0.19
Site 6 E	Water	9/4/2015	9/18/2015	680-116473-14	Di(2-ethylhexyl) adipate	SVOC	.71 J	0.58	0.6	1.5
Site 6 L	Water	9/4/2015	9/18/2015	680-116473-15	Bromoform	VOC	.41 J	0.17	1	0.5
Site 6 L	Water	9/4/2015	9/18/2015	680-116473-15	Chlorodibromomethane	VOC	3	0.13	1	0.5
Site 6 L	Water	9/4/2015	9/18/2015	680-116473-15	Chloroform	VOC	4.3	0.2	1	0.5
Site 6 L	Water	9/4/2015	9/18/2015	680-116473-15	Dichlorobromomethane	VOC	4.8	0.079	1	0.5
Site 6 L	Water	9/4/2015	9/18/2015	680-116473-15	Atrazine	SVOC	0.053 J	0.021	0.3	0.19
Site 1 R2 E	Water	10/6/2015	10/19/2015	680-117534-1	Bromoform	VOC	.39 J	0.17	1	0.5
Site 1 R2 E	Water	10/6/2015	10/19/2015	680-117534-1	Chlorodibromomethane	VOC	4.3	0.13	1	0.5
Site 1 R2 E	Water	10/6/2015	10/19/2015	680-117534-1	Chloroform	VOC	9.4	0.2	1	0.5
Site 1 R2 E	Water	10/6/2015	10/19/2015	680-117534-1	Dichlorobromomethane	VOC	7.8	0.079	1	0.5
Site 1 R2 E	Water	10/6/2015	10/19/2015	680-117534-1	Fluoranthene	SVOC	.029 J H	0.02		0.19
Site 1 R2 E	Water	10/6/2015	10/19/2015	680-117534-1	Phenanthrene	SVOC	.042 J H	0.02		0.19
Site 1 R2 L	Water	10/6/2015	10/19/2015	680-117534-2	Bromoform	VOC	.47 J	0.17	1	0.5
Site 1 R2 L	Water	10/6/2015	10/19/2015	680-117534-2	Chlorodibromomethane	VOC	4.3	0.13	1	0.5
Site 1 R2 L	Water	10/6/2015	10/19/2015	680-117534-2	Chloroform	VOC	9.6	0.2	1	0.5
Site 1 R2 L	Water	10/6/2015	10/19/2015	680-117534-2	Dichlorobromomethane	VOC	8	0.079	1	0.5
Site 1 R2 L	Water	10/6/2015	10/19/2015	680-117534-2	Di(2-ethylhexyl) adipate	SVOC	1.5 F1 F2	0.6	0.6	1.5
Site 7 R2 E	Water	10/6/2015	10/19/2015	680-117536-1	Bromoform	VOC	.45 J	0.17	1	0.5
Site 7 R2 E	Water	10/6/2015	10/19/2015	680-117536-1	Chlorodibromomethane	VOC	4.9	0.13	1	0.5
Site 7 R2 E	Water	10/6/2015	10/19/2015	680-117536-1	Chloroform	VOC	9.9	0.2	1	0.5
Site 7 R2 E	Water	10/6/2015	10/19/2015	680-117536-1	Dichlorobromomethane	VOC	8.5	0.079	1	0.5
Site 7 R2 L	Water	10/6/2015	10/19/2015	680-117536-2	Bromoform	VOC	.46 J	0.17	1	0.5
Site 7 R2 L	Water	10/6/2015	10/19/2015	680-117536-2	Chlorodibromomethane	VOC	4.3	0.13	1	0.5
Site 7 R2 L	Water	10/6/2015	10/19/2015	680-117536-2	Chloroform	VOC	8.6	0.2	1	0.5
Site 7 R2 L	Water	10/6/2015	10/19/2015	680-117536-2	Dichlorobromomethane	VOC	8.3	0.079	1	0.5
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	1-Methyl naphthalene	SVOC	170 J	59		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	2-Methyl naphthalene	SVOC	200 J	44		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Acenaphthene	SVOC	100 J	43		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Acenaphthylene	SVOC	180 J	32		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Anthracene	SVOC	1500	40		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Benzo[a] anthracene	SVOC	3300	32		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Benzo[a] pyrene	SVOC	2900	47	0.1*	240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Benzo[b] fluoranthene	SVOC	4000	52		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Benzo[g,h,i] perylene	SVOC	780	78		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Benzo[k] fluoranthene	SVOC	1900	71		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Carbazole	SVOC	1200	600		1200
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Chrysene	SVOC	3100	66		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Dibenz(a,h) anthracene	SVOC	280	47		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Dibenzofuran	SVOC	480 J	280		1200
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Fluoranthene	SVOC	7100	45		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Fluorene	SVOC	830	34		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Indeno[1,2,3-cd]pyrene	SVOC	1000	62		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Naphthalene	SVOC	500	37		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Phenanthrene	SVOC	6000	34		240
Interior Pipe Crust 78+10/7'	Crust	8/19/2015	8/27/2015	500-100137-4	Pyrene	SVOC	5400	48		240
Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Ethyl benzene	SVOC	170	1.7	0.5*	6.7
Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Xylenes Total	VOC	180	2.5	.5*	13
Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Anthracene	SVOC	300 J	76		450

Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Benzo[a] anthracene	SVOC	680	**64**	0.1*	**450**
Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Benzo[a] pyrene	SVOC	450 J	**88**		450
Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Benzo[b] fluoranthene	SVOC	520	**98**		**450**
Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Benzo[k] fluoranthene	SVOC	230 J	**130**		450
Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Chrysene	SVOC	900	**120**		**450**
Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Fluoranthene	SVOC	1200	**84**		**450**
Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Fluorene	SVOC	72 J	**64**		450
Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Phenanthrene	SVOC	1700	**63**		**450**
Interior Pipe Crust 71+50/7'	Crust	8/20/2015	8/31/2015	500-100240-4	Pyrene	SVOC	1800	**90**		**450**

Abbreviations and Notes:

µg/L - micrograms per liter or parts per billion (ppb)
E = Early sample collected after less than 30 seconds of purge
L = Late sample collected after 5 minutes of purge
* = The IEPA Reporting Limit shown is for Drinking Water, and is therefore not applicable to this solid crust sample.
Maximum Contaminant Levels (MCLs) and IEPA drinking water reporting limits have not been published for many compounds on the table.

Laboratory Qualifiers

J = Result is less than the reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.
F1 = Matrix Spike (MS) and/or Matrix-Spike Duplicate (MSD) recovery is outside acceptance limits.
F2 = Matrix Spike or Matrix Spike Duplicate (MS/MSD) Relative Percent Difference (RPD) exceeds control limits.
H = Sample was prepped or analyzed beyond the specified holding time

Table 1. Drinking Water and Internal Pipe Crust Results - Detected VOCs and SVOCs

Water and Internal Crust Samples from Sites Near Dodge Avenue Water Main Replacement, Illinois

SCS Engineers Project #25214107.00

(Results are in µg/L)

Media	Date Collected	Lab Report Date	Lab Report Number	Compound	Type	Value (ug/l)	Lab Method Detection Limit (ug/l)	IEPA Reporting Limit (ug/l)	Lab Reporting Limit (ug/l) (if different than IEPA)	Maximum Contaminant Level (ug/l in water)	Present in Water and Crust
Water	9/4/15	9/18/15	680-116473-7	Fluoranthene	SVOC	0.02 J	**0.019**		0.19		x
Water	9/4/15	9/18/15	680-116473-7	Phenanthrene	SVOC	0.028 J	**0.019**		0.19		x
Water	9/4/15	9/18/15	680-116473-8	Fluoranthene	SVOC	.022 J	**0.019**		0.19		x
Water	9/4/15	9/18/15	680-116473-8	Phenanthrene	SVOC	.042 J	**0.019**		0.19		x
Water	10/6/15	10/19/15	680-117534-1	Fluoranthene	SVOC	.029 J H	**0.02**		0.19		x
Water	10/6/15	10/19/15	680-117534-1	Phenanthrene	SVOC	.042 J H	**0.02**		0.19		x
Crust	8/19/15	8/27/15	500-100137-4	Fluoranthene	SVOC	7100	**45**		**240**		x
Crust	8/19/15	8/27/15	500-100137-4	Phenanthrene	SVOC	6000	**34**		**240**		x
Crust	8/20/15	8/31/15	500-100240-4	Fluoranthene	SVOC	1200	**84**		**450**		x
Crust	8/20/15	8/31/15	500-100240-4	Phenanthrene	SVOC	1700	**63**		**450**		x

tes:

ɜr or parts per billion (ppb)

ɪ after less than 30 seconds of purge

after 5 minutes of purge

ɪit shown is for Drinking Water, and is therefore not applicable to this solid crust sample.

vels (MCLs) and IEPA drinking water reporting limits have not been published for many compounds on the table.

eporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.

ɪd/or Matrix-Spike Duplicate (MSD) recovery is outside acceptance limits.

trix Spike Duplicate (MS/MSD) Relative Percent Difference (RPD) exceeds control limits.

ɪ or analyzed beyond the specified holding time