

Concrete Analytical Results
East Guncotton/Nitrocellulose Production Area (A, B, C Lines)
UMore Park
Rosemount, Minnesota

Compound/Parameter	Sample Identifier														Residential Soil Reference Value (SRV)	Industrial Soil Reference Value (SRV)	Tier I Soil Leaching Value (SLV)
	CS-1-104B	CS-2-104B	CS-3-104B	CS-4-101B	CS-5-101B	CS-6-1-106B	CS-6-2-106B	CS-7-1-106B	CS-7-2-106B	CS-8-722B	CS-9-722B	CS-10-102B4	CS-11-102B4	CS-12-706J			
	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006			
Volatile Organic Compounds (VOCs) reported in mg/kg																	
All Reported VOCs	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NE	NE	NE
Volatile Organic Compounds (VOCs) - Alcohols reported in mg/kg																	
All Reported VOCs - Alcohols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
Base-Neutral Extractables (BNEs) reported in mg/kg																	
2-Methylnaphthalene	NA	< 0.04	NA	0.717	NA	NA	NA	NA	< 0.04	< 0.04	< 0.04	< 0.04	NA	NA	100	369	NE
Acenaphthene	NA	< 0.036	NA	0.113	NA	NA	NA	NA	< 0.036	< 0.036	< 0.036	< 0.036	NA	NA	1,200	5,260	50
Benzo(a)anthracene	NA	< 0.031	NA	< 0.031	NA	NA	NA	NA	< 0.031	< 0.031	0.107	< 0.031	NA	NA	a	a	a
Benzo(a)pyrene	NA	< 0.038	NA	< 0.038	NA	NA	NA	NA	< 0.038	< 0.038	0.106	< 0.038	NA	NA	a	a	a
Benzo(b)fluoranthene	NA	< 0.035	NA	< 0.035	NA	NA	NA	NA	< 0.035	< 0.035	0.165	< 0.035	NA	NA	a	a	a
Benzo(k)fluoranthene	NA	< 0.031	NA	< 0.031	NA	NA	NA	NA	< 0.031	< 0.031	0.06	< 0.031	NA	NA	a	a	a
Bis(2-ethylhexyl)phthalate	NA	< 0.09	NA	0.562	NA	NA	NA	NA	< 0.09	0.196	< 0.09	< 0.09	NA	NA	570	2,100	40
Chrysene	NA	< 0.034	NA	< 0.034	NA	NA	NA	NA	< 0.034	< 0.034	0.144	< 0.034	NA	NA	a	a	a
Dibenzofuran	NA	< 0.035	NA	0.162	NA	NA	NA	NA	< 0.035	< 0.035	< 0.035	< 0.035	NA	NA	104	810	NE
Diethyl phthalate	NA	< 0.04	NA	0.07	NA	NA	NA	NA	< 0.04	< 0.04	< 0.04	< 0.04	NA	NA	NE	NE	18
Di-n-butyl phthalate	NA	0.15	NA	0.141	NA	NA	NA	NA	0.092	< 0.08	< 0.08	< 0.08	NA	NA	2,440	16,300	23
Fluoranthene	NA	< 0.04	NA	< 0.04	NA	NA	NA	NA	< 0.04	< 0.04	0.309	< 0.04	NA	NA	1,080	6,800	295
Naphthalene	NA	< 0.033	NA	0.054	NA	NA	NA	NA	< 0.033	< 0.033	< 0.033	< 0.033	NA	NA	10	28	7.5
Phenanthrene	NA	< 0.035	NA	1.086	NA	NA	NA	NA	< 0.035	< 0.035	0.155	< 0.035	NA	NA	NE	NE	NE
Pyrene	NA	< 0.03	NA	0.128	NA	NA	NA	NA	< 0.03	< 0.03	0.157	< 0.03	NA	NA	890	5,800	272
Benzo(a)pyrene Equivalent ^a	NA	0	NA	0	NA	NA	NA	NA	0	0	0.141	0	NA	NA	2	3	10.2
All Other Reported BNE's	NA	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	ND	NA	NA	NE	NE	NE
Polychlorinated Biphenyls (PCBs) reported in mg/kg																	
Total PCBs	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	1.2	8	2.1
Explosives reported in mg/kg																	
All Reported Explosive Compounds	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	ND	NA	NA	NE	NE	NE
Diphenylamine (DPA) and Aniline reported in mg/kg																	
Aniline	NA	< 0.8	NA	< 0.8	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.8	NA	NA	NE	NE	NE
Diphenylamine	NA	< 0.054	NA	< 0.054	NA	NA	NA	NA	< 0.054	< 0.054	< 0.054	< 0.054	NA	NA	NE	NE	1.6
Metals reported in mg/kg																	
Arsenic	NA	NA	2.508	NA	2.4	2.735	NA	NA	NA	NA	3.043	2.88	2.611	3.484	5	20	15.1
Barium	NA	NA	45.48	NA	43.23	50.45	NA	NA	NA	NA	63.51	58.75	45.29	66.49	1,200	18,000	842
Cadmium	NA	NA	0.1	NA	0.109	0.162	NA	NA	NA	NA	0.084	0.062	0.061	0.128	25	200	4.4
Chromium	NA	NA	42.4	NA	21.2	20.8	NA	NA	NA	NA	25.2	14.2	27.3	27.1	44,000 ^b	100,000 ^b	1,000,000 ^b
Lead	NA	NA	< 1.49	NA	3.49	11.1	NA	NA	NA	NA	1.62	< 1.47	12.3	4.76	300	700	525
Mercury	NA	NA	< 0.02	NA	0.02	0.11	NA	NA	NA	NA	< 0.02	< 0.02	< 0.02	< 0.02	0.5	1.5	1.6
Selenium	NA	NA	< 0.248	NA	< 0.242	< 0.248	NA	NA	NA	NA	< 0.232	< 0.244	< 0.246	< 0.243	160	1,300	1.5
Silver	NA	NA	0.225	NA	0.231	<0.248	NA	NA	NA	NA	0.246	0.204	0.535	0.625	160	1,300	3.9
Asbestos reported in percent																	
Asbestos	ND	NA	ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	NE	NE	NE

Notes:

mg/kg = Milligrams per kilogram.

NA = Not analyzed for this parameter.

ND = Not detected.

NE = Not established.

< 0.025 = Compound not detected at or above the listed value.

a = Benzo(a)pyrene (BaP) equivalent is a calculated value based on the weighted concentration and toxicity of the following compounds:

benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

^b = No SRV or SLV is established for "total chromium"; the SRV/SLV listed is for chromium III and has been used because analysis of representative samples did not detect chromium VI (hexavalent chromium).

Concrete Analytical Results
East Guncotton/Nitrocellulose Production Area (A, B, C Lines)
UMore Park
Rosemount, Minnesota

Compound/Parameter	CS-13-706J	CS-14-108B	CS-15-108B	CS-16-108B	CS-17-109B	CS-18-1-109B	CS-18-2-109B	CS-19-501B	CS-20-112B	CS-21-112B	CS-22-120B1	CS-23-113B	CS-24-1-113B	CS-24-2-113B	CS-25-111B	CS-26-201B	Residential Soil Reference Value (SRV)	Industrial Soil Reference Value (SRV)	Tier I Soil Leaching Value (SLV)
	9/13/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006			
Volatile Organic Compounds (VOCs) reported in mg/kg																			
All Reported VOCs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
Volatile Organic Compounds (VOCs) - Alcohols reported in mg/kg																			
All Reported VOCs - Alcohols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
Base-Neutral Extractables (BNEs) reported in mg/kg																			
2-Methylnaphthalene	< 0.04	NA	NA	< 0.04	NA	< 0.04	NA	< 0.04	NA	< 0.08	< 0.08	< 0.08	NA	NA	< 0.04	< 0.08	100	369	NE
Acenaphthene	< 0.036	NA	NA	< 0.036	NA	< 0.036	NA	< 0.036	NA	< 0.072	< 0.072	< 0.072	NA	NA	< 0.036	< 0.072	1,200	5,260	50
Benzo(a)anthracene	< 0.031	NA	NA	< 0.031	NA	< 0.031	NA	< 0.031	NA	< 0.062	< 0.062	< 0.062	NA	NA	< 0.031	< 0.062	a	a	a
Benzo(a)pyrene	< 0.038	NA	NA	< 0.038	NA	< 0.038	NA	< 0.038	NA	< 0.076	< 0.076	< 0.076	NA	NA	< 0.038	< 0.076	a	a	a
Benzo(b)fluoranthene	< 0.035	NA	NA	< 0.035	NA	< 0.035	NA	< 0.035	NA	< 0.07	< 0.07	< 0.07	NA	NA	< 0.035	< 0.07	a	a	a
Benzo(k)fluoranthene	< 0.031	NA	NA	< 0.031	NA	< 0.031	NA	< 0.031	NA	< 0.062	< 0.062	< 0.062	NA	NA	< 0.031	< 0.062	a	a	a
Bis(2-ethylhexyl)phthalate	0.13	NA	NA	< 0.09	NA	< 0.09	NA	< 0.09	NA	0.263	0.208	0.202	NA	NA	0.18	0.212	570	2,100	40
Chrysene	< 0.034	NA	NA	< 0.034	NA	< 0.034	NA	< 0.034	NA	< 0.068	< 0.068	< 0.068	NA	NA	< 0.034	< 0.068	a	a	NE
Dibenzofuran	< 0.035	NA	NA	< 0.035	NA	< 0.035	NA	< 0.035	NA	< 0.07	< 0.07	< 0.07	NA	NA	< 0.035	< 0.07	104	810	NE
Diethyl phthalate	< 0.04	NA	NA	< 0.04	NA	< 0.04	NA	< 0.04	NA	< 0.08	< 0.08	< 0.08	NA	NA	< 0.04	< 0.08	NE	NE	18
Di-n-butyl phthalate	< 0.08	NA	NA	< 0.08	NA	< 0.08	NA	< 0.08	NA	< 0.16	< 0.16	< 0.16	NA	NA	< 0.08	< 0.16	2,440	16,300	23
Fluoranthene	< 0.04	NA	NA	< 0.04	NA	< 0.04	NA	< 0.04	NA	< 0.08	< 0.08	< 0.08	NA	NA	< 0.04	< 0.08	1,080	6,800	295
Naphthalene	< 0.033	NA	NA	< 0.033	NA	< 0.033	NA	< 0.033	NA	< 0.066	< 0.066	< 0.066	NA	NA	< 0.033	< 0.066	10	28	7.5
Phenanthrene	< 0.035	NA	NA	< 0.035	NA	< 0.035	NA	< 0.035	NA	< 0.07	< 0.07	< 0.07	NA	NA	< 0.035	< 0.07	NE	NE	NE
Pyrene	< 0.03	NA	NA	< 0.03	NA	< 0.03	NA	< 0.03	NA	< 0.06	< 0.06	< 0.06	NA	NA	< 0.03	< 0.06	890	5,800	272
Benzo(a)pyrene Equivalent ^a	0	NA	NA	0	NA	0	NA	0	NA	0	0	0	NA	NA	0	0	2	3	10.2
All Other Reported BNE's	ND	NA	NA	ND	NA	ND	NA	ND	NA	ND	ND	ND	NA	NA	ND	ND	NE	NE	NE
Polychlorinated Biphenyls (PCBs) reported in mg/kg																			
Total PCBs	NA	NA	NA	NA	NA	ND	NA	ND	NA	ND	NA	NA	NA	ND	NA	NA	1.2	8	2.1
Explosives reported in mg/kg																			
All Reported Explosive Compounds	NA	ND	NA	NA	ND	NA	NA	NA	ND	NA	ND	ND	NA	NA	NA	ND	NE	NE	NE
Diphenylamine (DPA) and Aniline reported in mg/kg																			
Aniline	< 0.8	NA	NA	< 0.8	NA	< 0.8	NA	< 0.8	NA	< 1.6	< 1.6	< 1.6	NA	NA	< 0.8	< 1.6	NE	NE	NE
Diphenylamine	< 0.054	NA	NA	< 0.054	NA	< 0.054	NA	< 0.054	NA	< 0.108	< 0.108	< 0.108	NA	NA	< 0.054	< 0.108	NE	NE	1.6
Metals reported in mg/kg																			
Arsenic	NA	1.653	2.676	NA	2.625	5.725	NA	2.535	1.921	2.311	2.611	3.275	NA	NA	2.598	3.29	5	20	15.1
Barium	NA	42.84	48.11	NA	40.69	65.75	NA	42.14	51.84	48.3	61.7	74.65	NA	NA	47.9	53.69	1,200	18,000	842
Cadmium	NA	0.051	0.051	NA	0.05	< 0.047	NA	0.911	0.078	0.08	0.115	0.114	NA	NA	< 0.049	0.079	25	200	4.4
Chromium	NA	12.2	16.6	NA	15.3	32.4	NA	20	9.14	20.2	13.8	14.6	NA	NA	22.4	14.1	44,000 ^b	100,000 ^b	1,000,000 ^b
Lead	NA	3.02	1.5	NA	1.86	3.56	NA	13	2.95	< 1.47	16.9	1.93	NA	NA	2.53	3.92	300	700	525
Mercury	NA	< 0.02	< 0.02	NA	0.02	< 0.02	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	< 0.02	< 0.02	0.5	1.5	1.6
Selenium	NA	< 0.239	< 0.25	NA	< 0.245	< 0.237	NA	< 0.245	< 0.246	< 0.245	< 0.249	< 0.248	NA	NA	< 0.244	< 0.245	160	1,300	1.5
Silver	NA	0.203	0.173	NA	0.17	0.376	NA	0.258	0.134	0.295	0.124	0.118	NA	NA	0.253	0.133	160	1,300	3.9
Asbestos reported in percent																			
Asbestos	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1	ND	NE	NE	NE

Notes:

mg/kg = Milligrams per kilogram.

NA = Not analyzed for this parameter.

ND = Not detected.

NE = Not established.

< 0.025 = Compound not detected at or above the listed value.

a = Benzo(a)pyrene (BaP) equivalent is a calculated value based on the weighted concentration and toxicity of the following compounds:

benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

^b = No SRV or SLV is established for "total chromium"; the SRV/SLV listed is for chromium III and has been used because analysis of representative samples did not detect chromium VI (hexavalent chromium).

Soil Analytical Results
East Guncotton/Nitrocellulose Production Area (A, B, C Lines)
UMore Park
Rosemount, Minnesota

Compound/Parameter	Sample Identifier																	Residential Soil Reference Value (SRV)	Industrial Soil Reference Value (SRV)	Tier I Soil Leaching Value (SLV)			
	TT-1(0-1')-101B NORTH	TT-1(1-2')-101B NORTH	TT-2(0-1')-104B	TT-2(6')-104B	TT-3(0-1')-104B	TT-3(6')-104B	TT-4(0-1')-105B (EAST)	TT-4(1-2')-105B (NORTH)	TT-5(0-1')-106B	TT-5(2-3')-106B	TT-5(3')-106B (EAST)	TT-5(5')-106B (EAST)	TT-6(0-1')-722B (NORTH)	TT-6(4')-722B (EAST)	TT-7(6')-722B	TT-8(0-1')-102B4 (EAST)	TT-8(1-2')-102B4 (NORTH)				TT-9(0-3')-108B		
Volatile Organic Compounds (VOCs) reported in mg/kg																							
All Reported VOCs	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA	NA	NE	NE	NE	
Volatile Organic Compounds (VOCs) - Alcohols reported in mg/kg																							
All Reported VOCs - Alcohols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE	
Base-Neutral Extractables (BNEs) reported in mg/kg																							
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.04	NA	< 0.04	NA	NA	< 0.04	100	369	NE	
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.036	NA	< 0.036	NA	NA	< 0.036	1,200	5,260	50	
Acetophenone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.041	NA	< 0.041	NA	NA	0.146	NE	NE	NE	
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.032	NA	< 0.032	NA	NA	< 0.032	7,880	45,400	942	
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.031	NA	< 0.031	NA	NA	0.071	a	a	a	
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038	NA	< 0.038	NA	NA	0.097	a	a	a	
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035	NA	< 0.035	NA	NA	0.106	a	a	a	
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.09	NA	< 0.09	NA	NA	0.16	NE	NE	NE	
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.031	NA	< 0.031	NA	NA	0.044	a	a	a	
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.09	NA	< 0.09	NA	NA	< 0.09	570	2,100	40	
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.034	NA	< 0.034	NA	NA	0.088	a	a	a	
Dibenzo(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.09	NA	< 0.09	NA	NA	< 0.09	a	a	a	
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035	NA	< 0.035	NA	NA	< 0.035	104	810	NE	
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.04	NA	< 0.04	NA	NA	0.105	1,080	6,800	295	
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.036	NA	< 0.036	NA	NA	< 0.036	850	4,120	47	
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.08	NA	< 0.08	NA	NA	< 0.08	a	a	a	
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.033	NA	< 0.033	NA	NA	< 0.033	10	28	7.5	
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035	NA	< 0.035	NA	NA	0.108	NE	NE	NE	
Pronamide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.08	NA	< 0.08	NA	NA	< 0.08	NE	NE	NE	
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.03	NA	< 0.03	NA	NA	0.182	890	5,800	272	
Benzo(a)pyrene Equivalent ^a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA	0.12	2	3	10.2	
Polychlorinated Biphenyls (PCBs) reported in mg/kg																							
Total PCBs	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA	NA	1.2	8	2.1	
Explosives reported in mg/kg																							
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	< 0.40	50	355	0.001
All Other Reported Explosive Compounds	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NE	NE	NE
Diphenylamine (DPA) and Aniline reported in mg/kg																							
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	< 0.8	NA	NA	< 0.8	NE	NE	NE	
Diphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.054	NA	< 0.054	NA	NA	< 0.054	NE	NE	1.6	
Metals reported in mg/kg																							
Arsenic	3.463	2.793	3.992	1.682	2.943	1.709	4.569	2.072	2.545	3.351	1.878	2.678	4.431	2.509	2.451	3.377	3.54	3.831	5	20	15.1		
Barium	57.76	55.38	156.8	31.9	100.3	35.34	177.9	55.96	48.89	94.92	22.75	59.29	101.4	45.3	48.07	89.34	98.52	67.98	1,200	18,000	842		
Cadmium	0.184	0.071	0.112	0.35	0.165	0.054	0.171	0.054	0.301	0.065	0.263	0.925	0.063	0.113	0.096	0.674	0.069	1.67	25	200	4.4		
Chromium	13.6	13.4	14.4	8.26	14.7	8.81	18.2	12.8	12.9	13.3	15.1	12.8	18.7	12.2	10.4	14.1	14.1	32.9	44,000 ^b	100,000 ^b	1,000,000 ^b		
Lead	10.9	4.92	7.73	58.4	12.5	3.62	18.2	4.43	11.1	6.05	35.9	45	8	7.73	5.84	20.8	6.6	1710	300	700	525		
Mercury	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	0.12	0.5	1.5	1.6		
Selenium	0.178	0.229	0.421	0.152	< 0.125	< 0.121	0.326	< 0.12	0.248	0.135	0.258	0.289	0.245	< 0.125	< 0.121	0.148	0.16	< 0.113	160	1,300	1.5		
Silver	0.061	0.057	0.062	0.11	0.058	0.049	0.075	0.053	0.047	0.056	0.04	0.063	0.078	0.059	0.057	0.064	0.067	0.258	160	1,300	3.9		
Asbestos reported in percent																							
Asbestos	ND	NA	ND	ND	< 1	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	NE	NE	NE		

Notes:

mg/kg = Milligrams per kilogram.

NA = Not analyzed for this parameter.

ND = Not detected (at or below concentration in parentheses where applicable).

NE = Not established.

< 0.025 = Compound not detected at or above the listed value.

a = Benzo(a)pyrene (BaP) equivalent is a calculated value based on the weighted concentration and toxicity of the following compounds:

benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

b = No SRV or SLV is established for "total chromium"; the SRV/SLV listed is for chromium III and has been used because analysis of representative samples did not detect chromium VI (hexavalent chromium).

Soil Analytical Results
East Guncotton/Nitrocellulose Production Area (A, B, C Lines)
UMore Park
Rosemount, Minnesota

Compound/Parameter	Sample Identifier																			Residential Soil Reference Value (SRV)	Industrial Soil Reference Value (SRV)	Tier I Soil Leaching Value (SLV)	
	TT-10(0-1)-108B	TT-10(6)-108B	TT-11(0-1)-109B (NORTH)	TT-11(4.5)-109B (NORTH)*	TT-12(0-4)-501B	TT-12(2-4)-501B	TT-12(6)-501B	TT-13(1-2)-120B1	TT-13(4)-120B1	TT-13(6)-120B1	TT-14(0-1)-112B (NORTH)	TT-14(1-2)-112B (EAST)	TT-15(0-1)-706J	TT-15(1-2)-706J	TT-16(5)-706J	TT-17(0-1)-113B	TT-17(2)-113B	TT-18(0-1)-111B	TT-19(5)-111B				TT-20(0-1)-201B
	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006			
Volatile Organic Compounds (VOCs) reported in mg/kg																							
All Reported VOCs	NA	NA	NA	NA	ND	ND	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
Volatile Organic Compounds (VOCs) - Alcohols reported in mg/kg																							
All Reported VOCs - Alcohols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
Base-Neutral Extractables (BNEs) reported in mg/kg																							
2-Methylnaphthalene	NA	NA	NA	< 0.04	1.792	NA	NA	NA	< 0.08	NA	NA	NA	NA	NA	< 0.04	NA	< 0.04	NA	< 0.04	< 0.04	100	369	NE
Acenaphthene	NA	NA	NA	< 0.036	5.51	NA	NA	NA	0.106	NA	NA	NA	NA	NA	< 0.036	NA	< 0.036	NA	< 0.036	< 0.036	1,200	5,260	50
Acetophenone	NA	NA	NA	< 0.041	< 0.082	NA	NA	NA	< 0.082	NA	NA	NA	NA	NA	< 0.041	NA	< 0.041	NA	< 0.041	< 0.041	NE	NE	NE
Anthracene	NA	NA	NA	< 0.032	8.152	NA	NA	NA	0.224	NA	NA	NA	NA	NA	< 0.032	NA	< 0.032	NA	< 0.032	< 0.032	7,880	45,400	942
Benzo(a)anthracene	NA	NA	NA	0.068	22.07	NA	NA	NA	0.487	NA	NA	NA	NA	NA	< 0.031	NA	0.063	NA	0.301	< 0.031	a	a	a
Benzo(a)pyrene	NA	NA	NA	0.063	10.9	NA	NA	NA	0.454	NA	NA	NA	NA	NA	< 0.038	NA	0.052	NA	0.26	< 0.038	a	a	a
Benzo(b)fluoranthene	NA	NA	NA	0.083	21.82	NA	NA	NA	0.578	NA	NA	NA	NA	NA	< 0.035	NA	0.068	NA	0.435	< 0.035	a	a	a
Benzo(g,h,i)perylene	NA	NA	NA	< 0.09	4.387	NA	NA	NA	0.218	NA	NA	NA	NA	NA	< 0.09	NA	< 0.09	NA	0.099	< 0.09	NE	NE	NE
Benzo(k)fluoranthene	NA	NA	NA	0.034	4.76	NA	NA	NA	0.26	NA	NA	NA	NA	NA	< 0.031	NA	< 0.031	NA	0.154	< 0.031	a	a	a
Bis(2-ethylhexyl)phthalate	NA	NA	NA	< 0.09	9.906	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	< 0.09	NA	< 0.09	NA	< 0.09	< 0.09	570	2100	40
Chrysene	NA	NA	NA	0.071	22.98	NA	NA	NA	0.536	NA	NA	NA	NA	NA	< 0.034	NA	0.066	NA	0.346	< 0.034	a	a	a
Dibenzo(a,h)anthracene	NA	NA	NA	< 0.09	2.439	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	< 0.09	NA	< 0.09	NA	< 0.09	< 0.09	a	a	a
Dibenzofuran	NA	NA	NA	< 0.035	4.696	NA	NA	NA	< 0.07	NA	NA	NA	NA	NA	< 0.035	NA	< 0.035	NA	< 0.035	< 0.035	104	810	NE
Fluoranthene	NA	NA	NA	0.091	54.26	NA	NA	NA	1.143	NA	NA	NA	NA	NA	< 0.04	NA	0.111	NA	0.376	< 0.04	1,080	6,800	295
Fluorene	NA	NA	NA	< 0.036	6.998	NA	NA	NA	0.1	NA	NA	NA	NA	NA	< 0.036	NA	< 0.036	NA	< 0.036	< 0.036	850	4,120	47
Indeno(1,2,3-cd)pyrene	NA	NA	NA	< 0.08	5.309	NA	NA	NA	0.238	NA	NA	NA	NA	NA	< 0.08	NA	< 0.08	NA	0.112	< 0.08	a	a	a
Naphthalene	NA	NA	NA	< 0.033	3.024	NA	NA	NA	< 0.066	NA	NA	NA	NA	NA	< 0.033	NA	< 0.033	NA	< 0.033	< 0.033	10	28	7.5
Phenanthrene	NA	NA	NA	0.039	53.75	NA	NA	NA	0.819	NA	NA	NA	NA	NA	< 0.035	NA	0.075	NA	0.1	< 0.035	NE	NE	NE
Pronamide	NA	NA	NA	< 0.08	< 0.16	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	< 0.08	NA	< 0.08	NA	< 0.08	< 0.08	NE	NE	NE
Pyrene	NA	NA	NA	0.152	54.91	NA	NA	NA	1.118	NA	NA	NA	NA	NA	< 0.03	NA	0.104	NA	0.498	< 0.03	890	5,800	272
Benzo(a)pyrene Equivalent ^a	NA	NA	NA	0.082	17.896	NA	NA	NA	0.616	NA	NA	NA	NA	NA	ND	NA	0.066	NA	0.364	ND	2	3	10.2
Polychlorinated Biphenyls (PCBs) reported in mg/kg																							
Total PCBs	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	8	2.1
Explosives reported in mg/kg																							
2,4-Dinitrotoluene	NA	NA	NA	< 0.18	NA	NA	< 0.18	NA	< 0.17	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.19	50	355	0.001
Other Explosive Compounds	NA	NA	NA	ND	NA	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NE	NE	NE
Diphenylamine (DPA) and Aniline reported in mg/kg																							
Aniline	NA	NA	NA	< 0.8	< 1.6	NA	NA	NA	< 1.6	NA	NA	NA	NA	NA	< 0.8	NA	< 0.8	NA	< 0.8	< 0.8	NE	NE	NE
Diphenylamine	NA	NA	NA	< 0.054	< 0.108	NA	NA	NA	< 0.108	NA	NA	NA	NA	NA	< 0.054	NA	< 0.054	NA	< 0.054	< 0.054	NE	NE	1.6
Metals reported in mg/kg																							
Arsenic	1.868	1.284	3.301	1.104	2.957	2.841	2.902	3.566	2.86	1.639	1.467	3.197	2.743	3.679	0.773	1.575	4.751	2.532	9.831	4.187	5	20	15.1
Barium	36.96	34.17	104.7	54.61	101.8	140	99.85	107.8	64.01	29.42	32.35	64.36	90.39	133.9	12.36	14.49	11.04	48.6	24.79	195.1	1,200	18,000	842
Cadmium	0.086	0.069	0.108	0.113	1.5	0.102	0.544	0.095	0.155	0.056	0.075	0.053	0.077	0.072	0.031	0.054	3.63	0.118	0.531	0.15	25	200	4.4
Chromium	10.8	9.61	14.3	11.3	12.7	13.3	69.4	15.5	13.6	9.06	10.7	12.7	11.1	15.5	5.17	9.97	21.4	11.3	15.1	21	44,000 ^b	100,000 ^b	1,000,000 ^b
Lead	7.79	3.46	6.37	21.2	69.5	7.63	550	13.7	21.9	82.3	3.31	5.33	5.57	7.48	2.15	7.31	308	7.29	107	8.88	300	700	525
Mercury	< 0.02	< 0.02	< 0.02	< 0.02	0.04	< 0.02	0.08	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.05	0.03	0.5	1.5	1.6
Selenium	< 0.124	< 0.121	0.198	0.295	< 0.115	0.212	< 0.122	0.25	< 0.124	< 0.112	< 0.12	0.121	0.132	0.256	< 0.121	0.343	< 0.124	< 0.123	< 0.124	0.294	160	1,300	1.5
Silver	0.041	0.04	0.054	0.064	1.832	0.041	0.121	0.062	0.077	0.042	0.048	0.063	0.049	0.06	0.027	0.015	0.438	0.039	0.063	0.045	160	1,300	3.9
Asbestos reported in percent																							
Asbestos	ND	ND	ND	ND	ND	NA	NA	NA	2	NA	ND	ND	ND	NA	NA	ND	NA	ND	NA	ND	NE	NE	NE

Notes:

mg/kg = Milligrams per kilogram.

NA = Not analyzed for this parameter.

ND = Not detected (at or below concentration in parentheses where applicable).

NE = Not established.

< 0.025 = Compound not detected at or above the listed value.

* = Sample mislabeled on Keystone Laboratories report as "TT-11(4-5) - 109B (North)".

a = Benzo(a)pyrene (BaP) equivalent is a calculated value based on the weighted concentration and toxicity of the following compounds:

benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

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