

Appendix P

Activity Based Sampling (ABS) – Trip Report (Data Tables Only)

Dynamac Corporation

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TABLE 1:
Southwest Vermiculite, Activity-Based Sampling Parameters

Area A: Grids A and C; "Skid Steer" Scenario									
Sample Type:	Low Flow	High Flow	High Flow (co-loc.)	Perimeter 1	Perimeter 2	Perimeter 3	Perimeter 4	Perimeter 5	N/A
Sample ID:	825	823	824	818	819	820	821	822	N/A
Flow Rate:	1 L/m	3 L/m	3 L/m	2.95 L/m	2.95 L/m	3.05 L/m	3 L/m	3.1 L/m	N/A
Analyzed:	NO	NO	NO	YES	YES	YES	YES	YES	N/A
Area A: Grids B, D and E; "Skid Steer" Scenario									
Sample Type	Low Flow	Low Flow (co-loc.)	High Flow	High Flow (co-loc.)	Perimeter 1	Perimeter 2	Perimeter 3	Perimeter 4	Perimeter 5
Sample ID	833	834	831	832	826	827	828	829	830
Flow Rate	1 L/m	1 L/m	3 L/m	2.95 L/m	3 L/m	3 L/m	3 L/m	3.15 L/m	3 L/m
Analyzed:	NO	NO	YES	YES	YES	YES	YES	YES	YES
Area B: Grids 1 to 6; "Shopping Cart" Scenario									
Sample Type:	Low Flow	High Flow	Perimeter 1	Perimeter 2	N/A	N/A	N/A	N/A	N/A
Sample ID:	812	811	809	810	N/A	N/A	N/A	N/A	N/A
Flow Rate:	3 L/m	10 L/m	10 L/m	10 L/m	N/A	N/A	N/A	N/A	N/A
Analyzed:	NO	YES	YES	YES	N/A	N/A	N/A	N/A	N/A
Area B: Grids 7 to 11; "Shopping Cart" Scenario									
Sample Type:	Low Flow	High Flow	Perimeter 1	Perimeter 2	N/A	N/A	N/A	N/A	N/A
Sample ID:	817	816	814	815	N/A	N/A	N/A	N/A	N/A
Flow Rate:	3 L/m	10 L/m	10 L/m	10 L/m	N/A	N/A	N/A	N/A	N/A
Analyzed:	YES	NO	YES	YES	N/A	N/A	N/A	N/A	N/A
Area B: Grids 15 to 19; "Shopping Cart" Scenario									
Sample Type:	Low Flow	High Flow	Perimeter 1	Perimeter 2	N/A	N/A	N/A	N/A	N/A
Sample ID:	840	839	837	838	N/A	N/A	N/A	N/A	N/A
Flow Rate:	3 L/m	10 L/m	10 L/m	9.88 L/m	N/A	N/A	N/A	N/A	N/A
Analyzed:	YES	NO	YES	YES	N/A	N/A	N/A	N/A	N/A
Area B: Grids 20 to 26; "Shopping Cart" Scenario									
Sample Type:	Low Flow	High Flow	Perimeter 1	Perimeter 2	N/A	N/A	N/A	N/A	N/A
Sample ID:	845	844	842	843	N/A	N/A	N/A	N/A	N/A
Flow Rate:	3 L/m	10 L/m	10 L/m	10 L/m	N/A	N/A	N/A	N/A	N/A
Analyzed:	YES	NO	YES	YES	N/A	N/A	N/A	N/A	N/A
Area F: Grids 4 to 10; "Shopping Cart" Scenario									
Sample Type:	Low Flow	High Flow	Perimeter 1	Perimeter 2	Perimeter 3	N/A	N/A	N/A	N/A
Sample ID:	805	804	801	802	803	N/A	N/A	N/A	N/A
Flow Rate:	3 L/m	10.5 L/m	12.5 L/m	10 L/m	10 L/m	N/A	N/A	N/A	N/A
Analyzed:	NO	YES	YES	YES	YES	N/A	N/A	N/A	N/A

KEY:

co-loc = co-located sample

L/m = Liters per minute

N/A = Not Applicable

TABLE 2:
Southwest Vermiculite, Activity-Based Sampling Air Sample Results for Area A

Sample No.	Lab Sample No.	Date Collected	Sample Location - Sample Type	Scenario Type	Air Volume (L)	Number of Grid Openings/Area Analyzed (mm ²)	Analytical Sensitivity (s/cc)	Number and Asbestos (PCMe) Mineral Types Identified	PCMe Concentration (s/cc)
813	S13	2/16/2013	Field Blank	Skid Steer	0	88 / 0.85536	Not Applicable	0 structures	Not Applicable
818	S18	2/16/2013	SWV A&C; P1	Skid Steer	100.3	78 / 0.78	0.00493	1 ACT & 10 LAA = 11 total structures	0.054
819	S19	2/16/2013	SWV A&C; P2	Skid Steer	100.3	63 / 0.0246	0.00609	2 ACT, 1 ANTH, 1 TREM & 18 LAA = 22 structures	0.130
820	S20	2/16/2013	SWV A&C; P3	Skid Steer	100.7	76 / 0.76	0.00504	1 LAA structure	0.005
821	S21	2/16/2013	SWV A&C; P4	Skid Steer	99	78 / 0.78	0.00499	4 LAA structures	0.020
822	S22	2/16/2013	SWV A&C; P5	Skid Steer	99.2	78 / 0.78	0.00498	1 ACT, 1 AMO & 1 LAA = 3 structures	0.005
823	S23	2/16/2013	SWV A&C; Hi Flow	Skid Steer	93	NA#	NA#	NA#	NA#
824	S24	2/16/2013	SWV A&C; Hi Flow (Co-Located)	Skid Steer	93	NA#	NA#	NA#	NA#
825	S25	2/16/2013	SWV A&C; Lo Flow	Skid Steer	EM	EM	EM	EM	EM
826	S26	2/16/2013	SWV B,D,E; P1	Skid Steer	105	73 / 0.73	0.00503	0 structures	< 0.005
827	S27	2/16/2013	SWV B,D,E; P2	Skid Steer	102	77 / 0.77	0.00491	1 AMO structure	0.0049
828	S28	2/16/2013	SWV B,D,E; P3	Skid Steer	102	76 / 0.76	0.00497	1 LAA structure	0.005
829	S29	2/16/2013	SWV B,D,E; P4	Skid Steer	110.3	71 / 0.71	0.00492	1 LAA structure	0.0049
830	S30	2/16/2013	SWV B,D,E; P5	Skid Steer	120	66 / 0.66	0.00487	0 structures	< 0.00487
831	S31	2/16/2013	SWV B,D,E; Hi Flow	Skid Steer	90	NA#	NA#	NA#	NA#
832	S32	2/16/2013	SWV B,D,E; Hi Flow (Co-Located)	Skid Steer	88.5	91 / 0.88452	0.00492	1 LAA structure	0.0048
833	S33	2/16/2013	SWV B,D,E; Lo Flow	Skid Steer	30	NA*	NA*	NA*	NA*
834	S34	2/16/2013	SWV B,D,E; Lo Flow (Co-Located)	Skid Steer	30	NA*	NA*	NA*	NA*
835	S35	2/16/2013	Ambient 1	Shopping Cart / Skid Steer	3672	22 / 0.22	0.00047	0 structures	< 0.00047
836	S36	2/16/2013	Ambient 2	Shopping Cart / Skid Steer	3657.3	22 / 0.22	0.00047	0 structures	< 0.00047

KEY:

ACT = Actinolite Asbestos; **AMO** = Amosite Asbestos; **ANTH** = Anthophyllite Asbestos; **LAA** = Libby amphibole Asbestos; **TREM** = Tremolite Asbestos

EM = Equipment Malfunction; **L** = Liters; **mm²** = millimeters squared; **NA#** = Not analyzed air sample cassette overloaded with particulates; **NA*** = Not analyzed due to Sample Hierarchy;

s/cc = structures per cubic centimeter; **SWV A&C** = Area A, Grids A and C; **SWV B, D, & E** = Area A, Grids B, D, and E;

TABLE 3:
Southwest Vermiculite, Activity-Based Sampling, Air Sample Results for Areas B and F

Sample No.	Lab Sample No.	Date Collected	Sample Location - Sample Type	Scenario Type	Air Volume (L)	Number of Grid Openings/Area Analyzed (mm ²)	Analytical Sensitivity (s/cc)	Number and Asbestos (PCMe) Mineral Types Identified	PCMe Concentration (s/cc)
801	S1	2/15/2013	AF4 - 10; P1	Shopping Cart	1025	8 / 0.07776	0.0047	0 structures	< 0.0047
802	S2	2/15/2013	AF4 - 10; P2	Shopping Cart	750	106 / 1.03032	0.000485	6 LAA structures	0.0029
803	S3	2/15/2013	AF4 - 10; P3	Shopping Cart	750	11 / 0.10692	0.00467	0 structures	< 0.0046
804	S4	2/15/2013	AF4 - 10; Hi Flow	Shopping Cart	672	118 / 1.14696	0.000486	1 AMO & 6 LAA = 7 structures	0.0034
805	S5	2/15/2013	AF 4 to 10; Lo Flow	Shopping Cart	45	NA*	NA*	NA*	NA*
806	S6	2/15/2013	Ambient 1	Not Applicable	1460	55 / 0.5346	0.00048	0 structures	< 0.00048
807	S7	2/15/2013	Ambient 2	Not Applicable	1413.8	57 / 0.55404	0.000478	0 structures	< 0.000478
808	S8	2/15/2013	Field Blank	Shopping Cart	0	91 / 0.88452	Not Applicable	0 structures	Not Applicable
809	S9	2/16/2013	AB1 - 6; P1	Shopping Cart	600	14 / 0.13608	0.00459	1 LAA structure	0.0046
810	S10	2/16/2013	AB1 - 6; P2	Shopping Cart	660	13 / 0.12636	0.00449	1 LAA structure	0.0045
811	S11	2/16/2013	AB1 - 6; Hi Flow	Shopping Cart	610	13 / 0.12636	0.00486	0 structures	< 0.0048
812	S12	2/16/2013	AB1 - 6; Lo	Shopping Cart	129	NA*	NA*	NA*	NA*
813	S13	2/16/2013	Field Blank	Shopping Cart	0	88 / 0.85536	Not Applicable	0 structures	Not Applicable
814	S14	2/16/2013	AB7 - 11; P1	Shopping Cart	670	12 / 0.11664	0.00479	0 structures	< 0.00479
815	S15	2/16/2013	AB7 - 11; P2	Shopping Cart	600	14 / 0.13608	0.00459	0 structures	< 0.00459
816	S16	2/16/2013	AB7 - 11; Hi	Shopping Cart	580	NA#	NA#	NA#	NA#
817	S17	2/16/2013	AB7 - 11; Lo Flow	Shopping Cart	186	251 / 2.43972	0.000826	21 LAA structures	0.017
835	S35	2/16/2013	Ambient 1	Shopping Cart	3672	22 / 0.22	0.00047	0 structures	< 0.00047
836	S36	2/16/2013	Ambient 2	Shopping Cart	3657.3	22 / 0.22	0.00047	0 structures	< 0.00047
837	S37	2/17/2013	AB15 - 19; P1	Shopping Cart	600	14 / 0.13608	0.00472	5 LAA structures	0.023
838	S38	2/17/2013	AB15 - 19; P2	Shopping Cart	641.9	13 / 0.12636	0.00462	0 structures	< 0.0046
839	S39	2/17/2013	AB 15 - 19; Hi	Shopping Cart	590	NA#	NA#	NA#	NA#
840	S40	2/17/2013	AB15 - 19; Lo	Shopping Cart	180	45 / 0.4374	0.00489	6 LAA structures	0.029
841	S41	2/17/2013	Field Blank	Shopping Cart	0	91 / 0.91	Not Applicable	1 LAA structure	Not Applicable
842	S42	2/17/2013	AB20 - 26; P1	Shopping Cart	680	12 / 0.11664	0.00472	0 structures	< 0.0047
843	S43	2/17/2013	AB20 - 26; P2	Shopping Cart	610	14 / 0.13608	0.00451	0 structures	< 0.0045
844	S44	2/17/2013	AB20 - 26; Hi	Shopping Cart	610	NA#	NA#	NA#	NA#
845	S45	2/17/2013	AB20 - 26; Lo	Shopping Cart	189	288 / 2.79936	0.000709	6 LAA structures	0.0043
846	S46	2/17/2013	Ambient 1	Shopping Cart	1448	55 / 0.55	0.00048	0 structures	< 0.00048
847	S47	2/17/2013	Ambient 2	Shopping Cart	1501.5	53 / 0.53	0.00048	0 structures	< 0.00048

KEY:

AB1 - 6 = Segment Area B, Grids 1 to 6; **AB7 - 11** = Segment Area B, Grids 7 to 11; **AB15-19** = Segment Area B, Grids 15 to 19; **AB20-26** = Segment Area B, Grids 20 to 26

AF4-10 = Segment Area F, Grids 4 to 10; **L** = Liters; ; **EM** = Equipment Malfunction; **mm2** = millimeters squared; **NA#** = Not analyzed air sample cassette overloaded with particulates;

NA* = Not analyzed due to Sample Hierarchy; **s/cc** = structures per cubic centimeter;

AMO = Amosite Asbestos; **LAA** = Libby amphibole Asbestos