Appendix C

Radon Flux Measurement Documentation

ERG Radon Flux Canister Data Log

Site: Dewey - Burdock

Location Number	Canister Number	Deployment Date (mm/dd/yy)	Deployment Time (24:00)	Retrieval Date (mm/dd/yy)	Retrieval Time (24:00)	Notes/Comments
1	22	–	–	–	–	TRIP BLANK
2	257	07/14/08	09:24	07/15/08	10:06	RFA-B37
3	258		09:27		10:14	RFA-B21
4	8		08:19		08:49	RFA-B17
5	73		08:55		09:29	RFA-B36
6	65		09:13		09:54	RFA-B15
7	95		09:20		10:00	RFA-B02
8	92		08:10		08:43	RFA-B30
9	38		08:05		08:41	RFA-B13
10	59		07:56		08:30	RFA-B01
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Environmental Restoration Group, Inc.
8809 Washington St. NE * Suite 150
Albuquerque, NM 87113

ERG Radon Flux Canister Data Log

Site: Dewey - Burdock

Location Number	Canister Number	Deployment Date (mm/dd/yy)	Deployment Time (24:00)	Retrieval Date (mm/dd/yy)	Retrieval Time (24:00)	Notes/Comments
1	91	09/26/07	08:51	09/27/07	10:00	RFA-B21
2	55	09/26/07	11:18	09/27/07	09:40	RFA-B31
3	72	09/26/07	09:04	09/27/07	10:10	RFA-B37
4	73	09/26/07	09:33	09/27/07	10:20	RFA-B02
5	23	09/26/07	10:15	09/27/07	10:30	RFA-B15
6	63	09/26/07	12:12	09/27/07	10:36	RFA-B17
7	105	09/26/07	12:40	09/27/07	10:22	RFA-B13
8	102	09/26/07	13:04	09/27/07	10:15	RFA-B30
9	45	09/26/07	13:50	09/27/07	10:07	RFA-B01
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Radon – 222 Canister Chain of Custody Record

Facility: Dewey Burdock
Pile or Stack Name: N/A
Area of Pile or Stack: N/A
Field Representative: N. WRUBEL

	Deployment	Retrival
Date	4/20/08	4/21/08
Rel. Humid.	$\bar{x}$: 39; 6-71	$\bar{x}$: 29 44; 19-68
Bar. Press	29.50 in.	30.02 in.
Temp. (F)	~71 °F $\bar{x}$: 59; 36-81	~40 °F $\bar{x}$: 38; 25-50

www.wunderground.com CHADRON, NE — no frost observed

Deployment/Retrieval Record

Item	Location ID or Description	Coordinates North	Coordinates East	Canister Number	Deployment Time	Deployment By	Retrieval Time	Retrieval By	Comments
101	RFA-B21	428288.77	999245.30	48	0830	NW	0802	NW	
102	RFA-B31	432201.68	1001484.26	2	0832		0825		
103	RFA-B37	430292.49	1005338.17	71	0900		0838		
104	RFA-B02	430887.96	1006307.79	59	0909		0846		
105	RFA-B15	432487.00	1007590.62	80	0918		0854		
106	RFA-B17	445319.19	989455.54	90	1010		0930		
107	RFA-B01	444878.75	986206.90	256	1024		0948		
108	RFA-B13	442713.12	988273.03	38	1035		1001		
109	RFA-B30	443802.77	988057.01	88	1045		1009		
110	Trip Blank	—	—	255	—	—	—	—	
111									
112									
113				NW					
114									

Custody Transfer Record

Items Nos.	Reliquished By	Date	Time	Accepted By	Date	Time 10 AM
101-110	NW	4/21/08	1400	K Bohn	4/22/08	~~4/22/08~~

Radon Flux Measurements

Site Dewey - Burdock
TOTAL

RFA-B##

Canister Number	Lab Date	Start Count Time	Deploy Date	Deploy Time	Retrieve Date	Retrieve Time	Collection Time (sec)	Count Time (sec)	Peak Counts	Percent Error	Bkg counts	Percent Error	Detector Efficiency	Canister Activity(nCi)	Flux pCi/m2s	Flux Error 1.00S.D.	L.L.D pCi/m2s	Remarks
257	7/16	1520	7/14	9:24	7/15	10:06		1200	5117						37			
258	"	15:40		9:27		10:14		"	4448						21			
8	"	16:01		8:19		8:49		"	5121						17			
73	"	16:22		8:55		9:29		"	3712						36			
65	"	16:46		9:13		9:54		"	5845						15			
95	"	17:10		9:20		10:00		"	4515						ϕ2			
92	"	17:31		8:10		8:43		"	6326						3ϕ			
* 92B	"	17:52		"		"		"	6386						3ϕ			
38	"	18:16		8:05		8:41		"	6724						13			
22	"	18:38		—		—		"	3126						—	BLANK		
* 59	"	18:59		7:56		8:30		"	6871				[illegible]	RFA-B	ϕ1			
BKG #2		19:42						"	2938									
STD #3	"	20:03						"	42987									
STD #1	"	20:24						"	47880									

ROI 523-697
4/22/08

Radon Flux Measurements

Site Dewey-Burdock

Canister Number	Lab Date	Start Count Time	Deploy Date	Deploy Time	Retrieve Date	Retrieve Time	Collection Time (sec)	Count Time (sec)	Peak Counts	Percent Error	Bkg counts	Percent Error	Detector Efficiency	Canister Activity(nCi)	Flux pCi/m2s	Flux Error 1.00 S.D.	LLD pCi/m2s	Remarks
STD 1	4/22	1720							29888	48042								
STD 3	4/22	1740							39122									
BKG1		1808							2757									
38		1840							3642									
88		1905							3848									
90		1923							3695									
256		1945							3810									
80		2010							4481									
80B		2031							4374									
59		2055							3932									
2		2115							3751									
71		2137							4800									
255		2200							2863									
48		2220							3182									
BKG2		2241							26005									
STD 1		2308							48463									
STD 3		2330							38657									

Kenna Baker

Data enter 4/30/08 by MSS

LOA = 562 - 690

Radon Flux Measurements

Site Dewey - Burdock, SD

TOTAL

Canister Number	Lab Date	Start Count Time	Deploy Date	Deploy Time	Retrieve Date	Retrieve Time	Collection Time (sec)	Count Time (sec)	Peak Counts	Percent Error	Bkg counts	Percent Error	Detector Efficiency	Canister Activity(nCi)	Flux pCi/m2s	Flux Error 1.00 S.D	LLD pCi/m2s	Remarks
STD 1	9/28/07	1600						1200	31826	1.9				46124				
STD 3	9/28/07	1635							26724	2.2				40807				
BKG 1	9/28/07	1700							-50	482				2594				
91	9/28/07	1722	9/26/07	0851	9/27/07	1000			1220	21				4230				
55	9/28/07	1745	9/26/07	1118	9/27/07	0940			810	31				3627				
72	9/28/07	1805	9/26/07	0925	9/27/07	1010		1200	1137	22				3992				
73	9/28/07	1830	9/26/07	0948	9/27/07	1020		"	925	28				4064				
23	9/28/07	1853	9/26/07	1015	9/27/07	1030		"	1744	14.6				4582				
63	9/28/07	1921	9/26/07	1212	9/27/07	1036			1596	16.1				4478				
105	9/28/07	1946	9/26/07	1240	9/27/07	1022			1742	16				5161				
102	9/28/07	2009	9/26/07	1304	9/27/07	1015			1996	13.3				5049				
45	9/28/07	2030	9/26/07	1350	9/27/07	1007			1672	16.2				4876				
45B	9/28/07	2100	9/26/07	1350	9/27/07	1007			1404	18.9				4824				
46	9/28/07	2121	NA	NA	NA	NA	NA		219	110				1799				TRIP BLANK
BK62	9/28/07	2142							279	82				2601				
STD 3	9/28/07	2204							35961	2.3				40345				
STD 1	9/28/07	2225							31277	1.9				45940				