WA 6906

ENVIRONMENTAL SAMPLING DATA & EVALUATION — .RIDGEFIELD BRICK AND TILE. — 12/19/85

6b

Sample Location	RBT POND	THORNTON WELL	#15 MUFFET WELL	#2 RANDALL WELL	#4 RUTOWSKI WELL	ELLIG WELL	BACK #7 RYF WELL	RUTOWSKI WELL	RYF WELL	MUFFET WELL	FALLS WELL	MUFFET WELL	FALLS WELL	RUTOWSKI WELL	RYF WELL	MUFFET WELL
Sample Identification																
Sample Date	5/31/83	5/31/83	5/31/83	5/31/83	5/31/83	5/31/83	5/31/83	12/14/83	12/14/83	1/10/84	1/10/84	3/23/84	3/23/84	3/23/84	3/23/84	6/12/84
Sample Type	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Depth, Ft																
Laboratory	PWT	PWT	PWT	PWT	PWT	PWT	PWT	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS
Report Number or Date	6/2/83	6/2/83	6/2/83	6/2/83	6/2/83	6/2/83	6/2/83	2/3/84	2/3/84	1/24/84	1/24/84	4/20/84	4/20/84	4/20/84	4/20/84	7/4/84
Sample Number	3	1	2	4	5	6	7	3	4	2	3	2	4	1	3	2
CONSTITUENT CONCENTRATION, ppm (A)																
METALS, TOTAL																
Arsenic	0,017	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,005	<0,005	<0,005	<0,005	<0,005	0,014	<0,005	<0,005	<0,005
Cadmium								<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Chromium	<0,06	<0,06	<0,06	<0,06	0,08	<0,06	0,10	<0,01	<0,01	<0,01	<0,01	<0,005	<0,005	<0,005	<0,005	<0,01
Copper	<0,03	<0,03	<0,03	<0,03	<0,03	0,08	<0,03	0,013	<0,005	<0,005	0,050	<0,005	0,022	<0,005	<0,005	<0,005
Lead								<0,010	<0,010	<0,010	<0,010	<0,005	<0,005	<0,005	<0,005	<0,010
Mercury								<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Nickel																
Selenium								<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005
Silver								<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01
Zinc																
Barium								<0,10	<0,10	<0,1	<0,1	<0,1	0,1	<0,1	<0,1	<0,10
OTHER CONSTITUENTS																
Total Phenols	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1									0,013
Napthalene								<0,001	<0,001	<0,001	<0,001	<0,005	<0,005	<0,005	<0,005	<0,001
Pentachlorophenol	0,134	<0,1	<0,1	0,100	<0,1	<0,1	<0,1	<0,00001	<0,00001	<0,00001	<0,00001	<0,0001	<0,0001	<0,0001	<0,0001	0,00086
Conductivity,umho/cm	300	270	260	210	240	190	200					250	210	280	210	190
Sulfates	<80	<80	<80	<80	<80	<80	<80									
pH (units)	7,24	7,05	7,20	7,51	7,04	7,20	7,04					7,6	7,7	7,6	8,1	7,1
Total Solids, %																
FOOTNOTES applicable to each column:	1,2	1,2	1,2	1,2	1,2	1,2	1,2	3								

USEPA RCRA 3058198

ppm

Sample Location	FALLS	RUTOWSKI	RYF	MUFFET	FALLS	RUTOWSKI	RYF	RBT	RBT	RBT	RBT	RBT	RBT	RBT	RBT
Sample Identification	WELL	WELL	WELL	WELL	WELL	WELL	WELL	TD SUMP	TD SUMP	TD BOX	LS-1	LS-3	LS-1	LS-2	LS-3
											LYSIMETER	LYSIMETER	LYSIMETER	LYSIMETER	LYSIMETER
Sample Date	6/12/84	6/12/84	6/12/84	9/13/84	9/13/84	9/13/84	9/13/84	12/14/83	3/23/84	1/10/84	12/14/83	12/14/83	3/23/84	3/23/84	3/23/84
Sample Type	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Depth, Ft															
Laboratory	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS
Report Number or Date	7/4/84	7/4/84	7/4/84	11/7/84	11/7/84	11/7/84	11/7/84	2/3/84	4/20/84	1/24/84	2/3/84	2/3/84	4/20/84	4/20/84	4/20/84
Sample Number	1	3	4	5	3	4	6	5	5	1	1	2	6	7	8
CONSTITUENT CONCENTRATION, ppm (A)															
METALS, TOTAL															
Arsenic	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	0,009	0,008	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005
Cadmium	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002
Chromium	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,005	<0,01	0,006	0,006	<0,005	<0,005	<0,005
Copper	0,005	<0,005	0,006	<0,005	0,008	<0,005	0,012	<0,005	<0,005	<0,005	0,005	<0,005	0,005	0,005	0,005
Lead	<0,010	<0,010	<0,010	<0,010	<0,010	<0,010	<0,010	<0,010	<0,005	<0,010	*	*	<0,005	<0,005	<0,005
Mercury	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	*	*	<0,001	<0,001	*
Nickel															
Selenium	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	*	*	<0,005	<0,005	<0,005
Silver	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	*	*	<0,01	<0,01	<0,01
Zinc															
Barium	<0,10	<0,10	<0,10	<0,10	<0,10	<0,10	<0,10	<0,10	0,1	<0,1	*	*	<0,1	0,1	<0,1
OTHER CONSTITUENTS															
Total Phenols	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005								
Napthalene	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	0,01	<0,005	<0,001	*	*	<0,005	<0,005	<0,005
Pentachlorophenol	0,00086	0,00013	0,00013	<0,0001 ***	<0,0001 ***	<0,0001 ***	<0,0001 ***	0,00056	0,0027	<0,00001	0,0001	0,00053	0,0014	<0,0001	0,0003
Conductivity,umho/cm	160	200	160	200	150	200	170		410				110	780	450
Sulfates															
pH (units)	7,1	7,3	7,3	7,0	6,9	6,9	7,1		6,4				7,7	8,2	8,6
Total Solids, %															
FOOTNOTES applicable to each column;				4	4	4	4	3			4	4			4

ppm

Sample Location	RBT	RBT	RBT	RBT	RBT	RBT	POST-CLOSURE	MAXIMUM VALUES > LOWER			RBT	RBT	RBT	RBT	RBT
Sample Identification	LS-1	LS-2	LS-3	LS-1	LS-2	TRANSFER	PERFORMANCE	LIMIT OF DETECTION			1-1A	1-2A	1-3A	1-4A	2-1A
	LYSIMETER	LYSIMETER	LYSIMETER	LYSIMETER	LYSIMETER	BLANK	STANDARDS				AH-1	AH-1	AH-1	AH-1	AH-2
Sample Date	6/12/84	6/12/84	6/12/84	9/13/84	9/13/84	9/13/84		WATER	LYSI-	TOE	9/8/83	9/8/83	9/8/83	9/8/83	9/8/83
Sample Type	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WELLS	METERS	DRAIN	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Depth, Ft							WELLS,				3	8	13	20	3
Laboratory	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	TOE DRAIN,				LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS
Report Number or Date	7/4/84	7/4/84	7/4/84	11/7/84	11/7/84	11/7/84	LYSIMETERS				9/30/83	9/30/83	9/30/83	9/30/83	9/30/83
Sample Number	5	6	7	1	2	7					1	2	3	4	9
CONSTITUENT CONCENTRATION, ppm (A)															
METALS, TOTAL															
Arsenic	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	0,025	0,014	0	0,009	<0,002	<0,002	<0,002	<0,002	<0,002
Cadmium	*	*	*	*	<0,002	<0,002	0,005	0	0,002	0					
Chromium	*	*	*	*	<0,01	<0,01	0,025	0,1	0,006	0					
Copper	*	*	*	*	0,048	<0,005	0,5	0,08	0,048	0					
Lead	*	*	*	<0,010	<0,010	<0,010	0,025	0	0	0					
Mercury	*	*	*	*	<0,01 ***	<0,001	0,001	0	0	0					
Nickel															
Selenium	*	*	*	<0,005	<0,005	<0,005	0,005	0	0	0					
Silver	*	*	*	*	<0,01	<0,01	0,025	0	0	0					
Zinc															
Barium	*	*	*	*	0,1	<0,10	0,5	0,1	0,1	0,1					
OTHER CONSTITUENTS															
Total Phenols				*	*	<0,005		0,013	0						
Napthalene	<0,050 **	<0,050 **	<0,050 **	<0,0001	<0,0001 **	<0,001	1,15	0	0	0,01	<0,200	<0,200	<0,200	<0,200	<0,200
Pentachlorophenol	<0,001 **	0,0019	0,0098	0,001	0,002	<0,0001 ***	0,025	0,1	0,0098	0,0027	<0,1000	<0,1000	<0,1000	<0,1000	<0,1000
Conductivity,umho/cm				*	*	13									
Sulfates															
pH (units)				*	*	7,8									
Total Solids, %											82,2%	79,6%	80,1%	83,9%	80,7%
FOOTNOTES applicable to each column:	4	4	4	4	4	4	6	7	7	7	5	5	5	5	5

Sample Location	RBT	RBT	RBT	RBT	RBT	RBT	RBT	RBT	SOIL
Sample Identification	2-2A	2-3A	2-4A	3-1	3-2A	3-3A	4-1A	4-2A	
	AH-2	AH-2	AH-2	AH-3	AH-3	AH-3	AH-4	AH-4	----------
Sample Date	9/8/83	9/8/83	9/8/83	9/8/83	9/8/83	9/8/83	9/13/83	9/13/83	MAXIMUM
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	VALUES
Sample Depth, Ft	8	13	18	11	16	22	41	51	> LOWER
Laboratory	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LAUCKS	LIMIT OF
Report Number or Date	9/30/83	9/30/83	9/30/83	9/30/83	9/30/83	9/30/83	9/30/83	9/30/83	DETECTION
Sample Number	11	13	15	17	18	20	22	23	
CONSTITUENT CONCENTRATION, ppm (A)									
METALS, TOTAL									
Arsenic	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	0
Cadmium				0,012					
Chromium									
Copper									
Lead									
Mercury									
Nickel									
Selenium									
Silver									
Zinc									
Barium									
OTHER CONSTITUENTS									
Total Phenols									
Napthalene	<0,200	<0,200	<0,200	<0,200	<0,200	<0,200	<0,200	<0,200	0
Pentachlorophenol	<0,1000	<0,1000	<0,1000	<0,1000	<0,1000	<0,1000	<0,1000	<0,1000	0
Conductivity,umho/cm									
Sulfates									
pH (units)									
Total Solids, %	82,6%	81,2%	80,0%	80,8%	80,0%	68,7%	86,0%	91,7%	
FOOTNOTES applicable to each column;	5	5	5	5	5	5	5	5	7

---- ASH TOTAL METALS AND E P TOXICITY DATA/MCL'S ----	PWT FLY ASH S. BAGHOUSE 4/13/82 ASH	PWT MULTICONE ASH 4/13/82 ASH	PWT BOTTOM ASH 4/13/82 ASH	E P TOXICITY mg/l MCL	PDWS EPA PRIMARY DRINKING WATER STDS, mg/l MCL	SDWS EPA SECONDARY DRINKING WATER STDS, mg/l MCL
DOE	DOE	DOE				
82-1719	82-1720	82-1721				
METALS, TOTAL						
Arsenic	600	85	55		0,050	
Cadmium	15,5	2	1		0,010	
Chromium	0,54	0,2	0,78		0,050	
Copper	19,5	1,6	1,85			1,0
Lead	6,5	0,65	0,25		0,050	
Mercury	<0,1	<0,1	<0,1		0,002	
Nickel	0,55	0,3	0,22			
Selenium	14	10	9		0,010	
Silver	<0,04	<0,04	<0,04		0,050	
Zinc	190	1,3	0,97			
Barium	150	530	560		1,000	
Conductivity,umho/cm						250
pH (units)					6,5-8,5	

E P TOXICITY				
Arsenic	72	2,3	0,5	5
Cadmium	0,44	0,03	0,02	1
Chromium	0,5	0,03	0,02	5
Lead	0,48	0,08	0,12	5
Silver	<0,04	<0,04	<0,04	5
Barium	1	2,8	3,3	100
Selenium	0,49	0,13	0,005	1

FOOTNOTES:

(A) Constituent concentrations are mg/l (ppm) or mg/kg dry basis (ppm) unless stated otherwise.

1. Recovery for Arsenic on 6 spiked samples averaged 106.1% with standard deviation of 13.48%.

2. Recovery for pentachlorophenol on 5 spiked samples averaged 99.4% with standard deviation of 8.00%.

3. Field filtered.

4. * indicates insufficient sample available to perform analysis.
   ** indicates sample was insufficient to achieve desired detection limits for naphthalene and pentachlorophenol.
   *** indicates elevated detection limit due to matrix effect.

5. Arsenic data resulted from analysis in accordance with 40 CFR 261.64 for EP Toxicity (arsenic only). PCP and naphthalene data were determined in accordance with USEPA, "Test Methods for Evaluating Solid Waste" (SW-846); PCP analyses were per Method 8040, naphthalene per Method 8100.

6. Performance standards are one-half the primary drinking water standards for all constituents except; copper; one-half the secondary drinking water standard pentachlorophenol and naphthalene; one-half the acute freshwater aquatic life toxicity criteria.

7. Maximum values which exceed the lower limit of detection; 0 indicates no value is greater than the lower limit of detection.