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March 27, 2023

Div of Waste Management
and Radiation Control

VIA E-MAIL AND EXPEDITED DELIVERY

MAR 30 2023

Mr. Doug Hansen
Director, Division of Waste Management and Radiation Control
Utah Department of Environmental Quality
195 North 1950 West
Salt Lake City, UT 84116

DRC-2023-002736

Re: **State of Utah Radioactive Material License No. UT1900479
White Mesa Mill, Blanding, Utah
Semi-Annual Effluent Monitoring Report for Period
July 1 through December 31, 2022 Revision 1**

Dear Mr. Hansen:

Attached please find enclosed two (2) copies of the revised Semi-Annual Effluent Monitoring Report ("SAER") for the White Mesa Mill for the period July 1 through December 31, 2022. These updated pages should replace the appropriate pages in Tab I in the previously submitted document, dated February 24, 2023.

Please contact me if you have any questions or require any further information on the revised SAER.

Yours very truly,

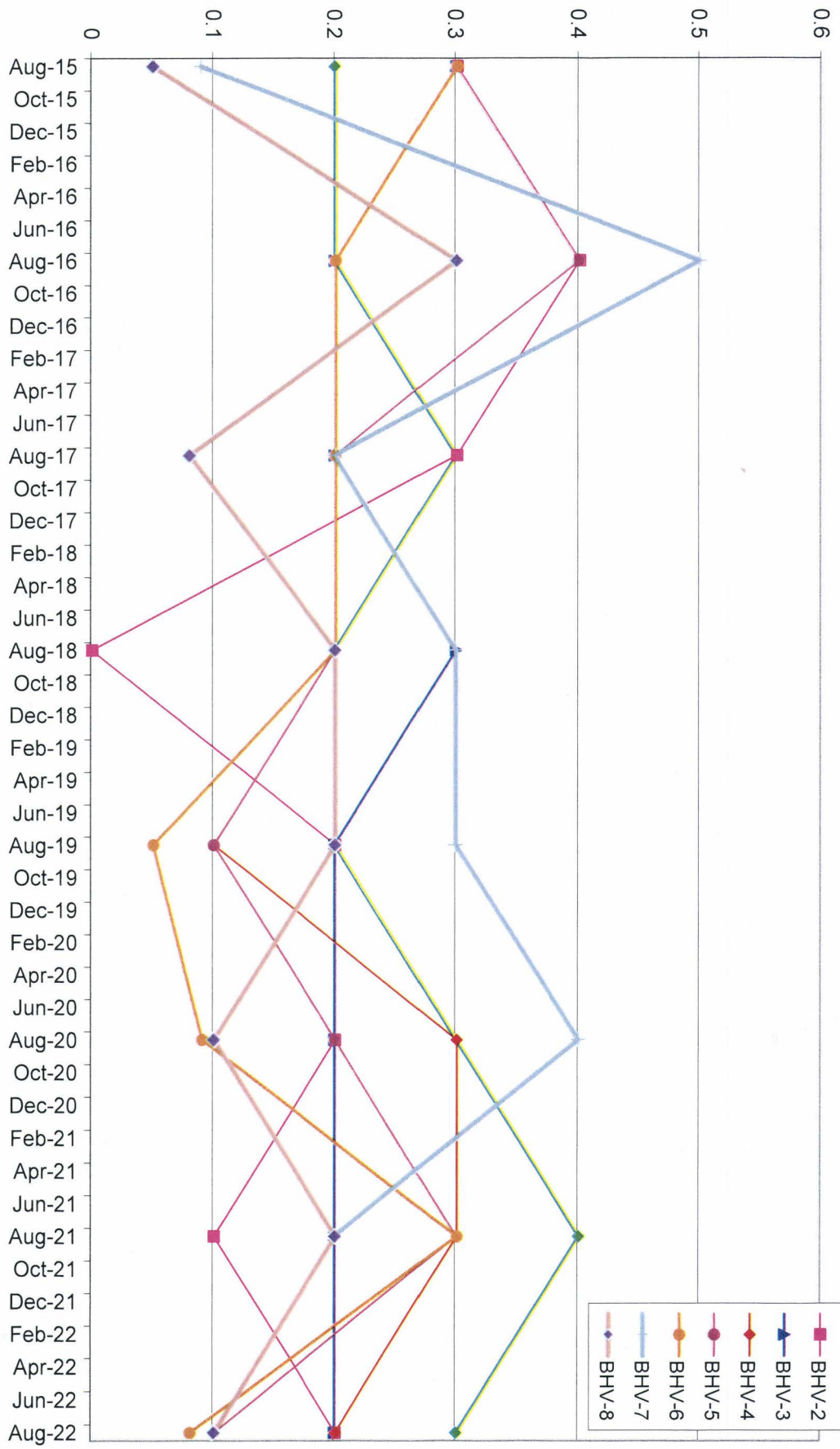
ENERGY FUELS RESOURCES (USA) INC.

A handwritten signature in blue ink that reads 'Kathy Weinel'.

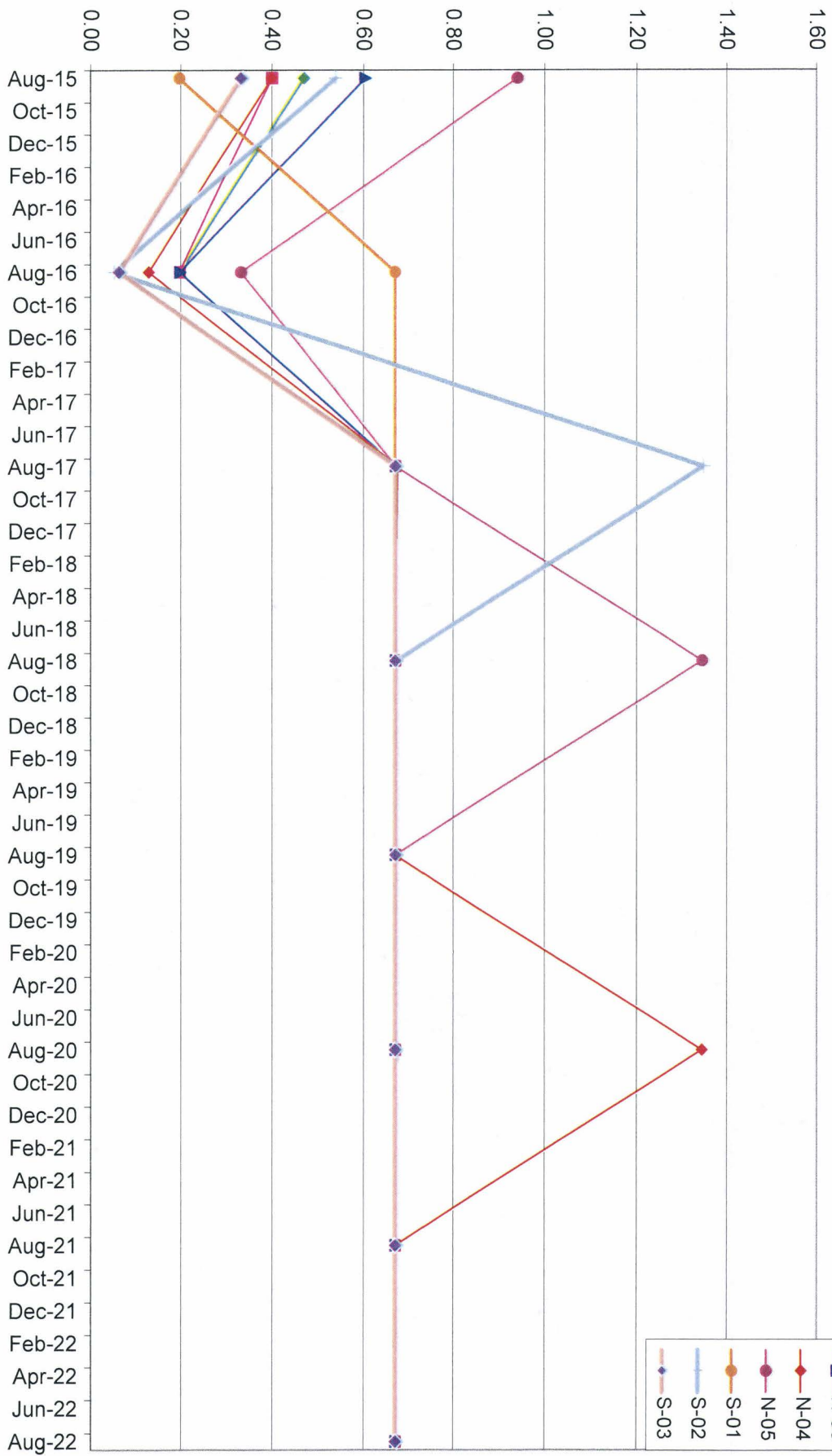
Kathy Weinel
Director, Regulatory Compliance

cc: Dave Frydenlund
Logan Shumway
Scott Bakken
Jordan App
John Uhrig
Garrin Palmer

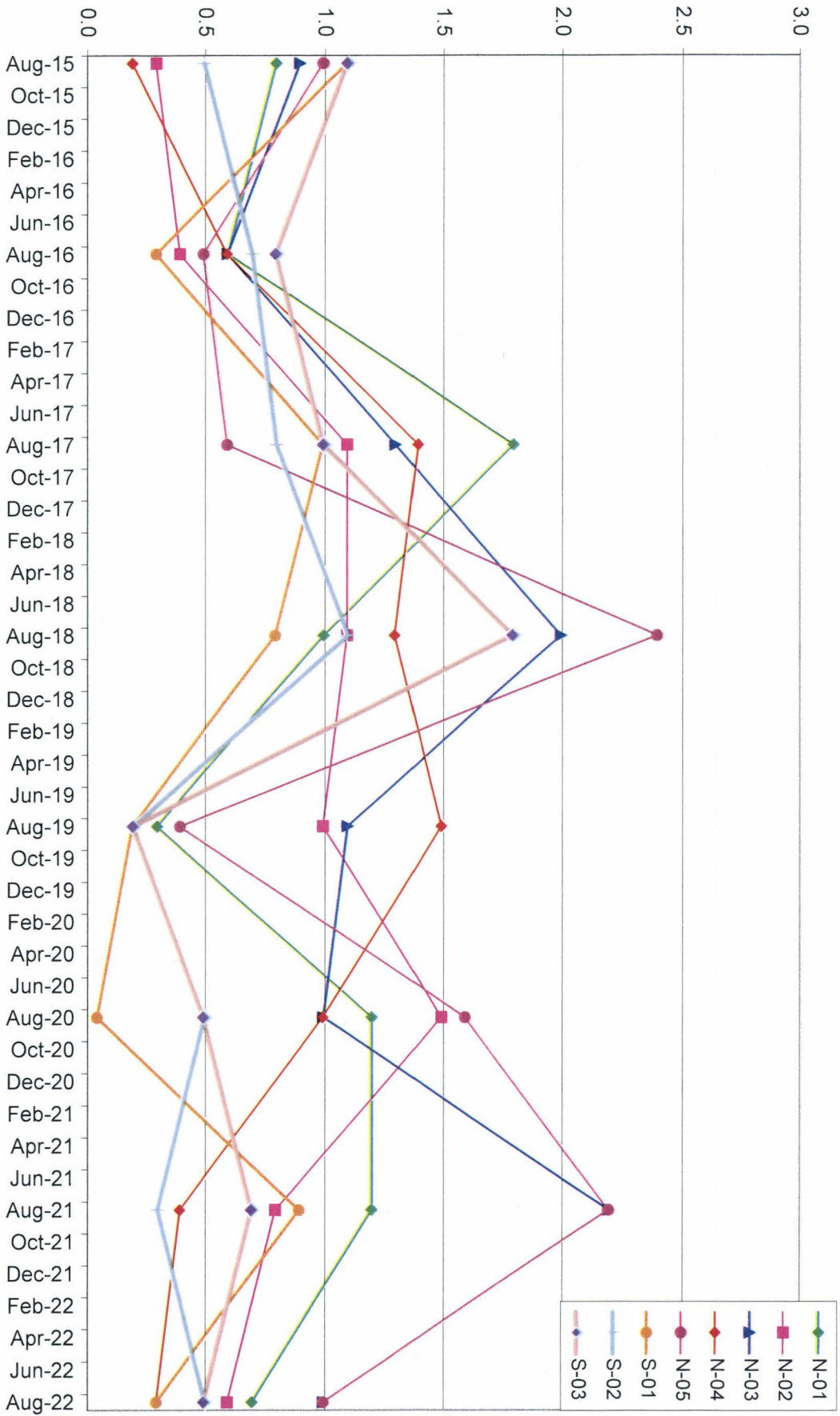
BHV Th-232 Concentrations In Soil (pCi/g)



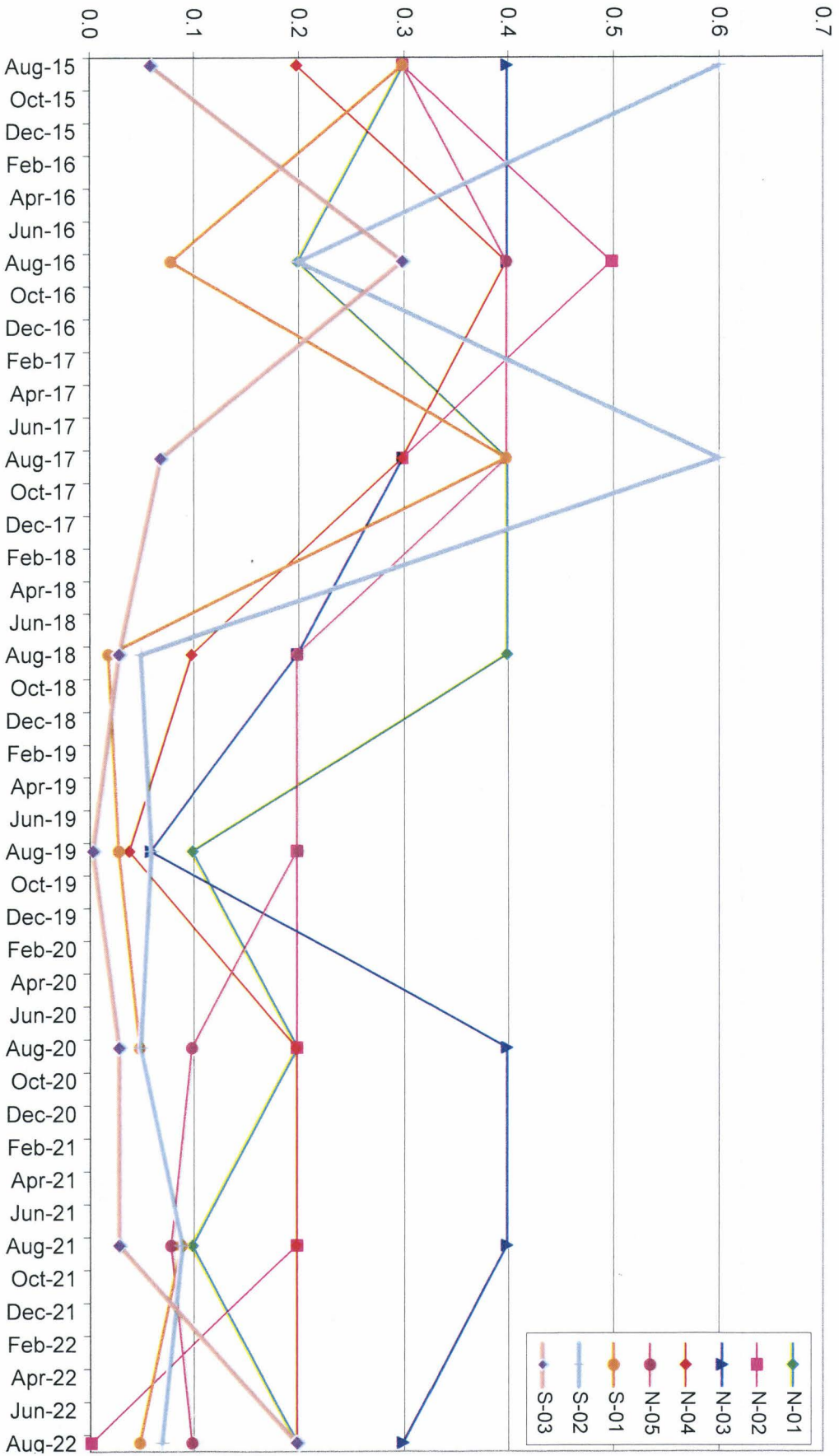
North and South Uranium-Nat. Concentrations In Soil (pCi/g)



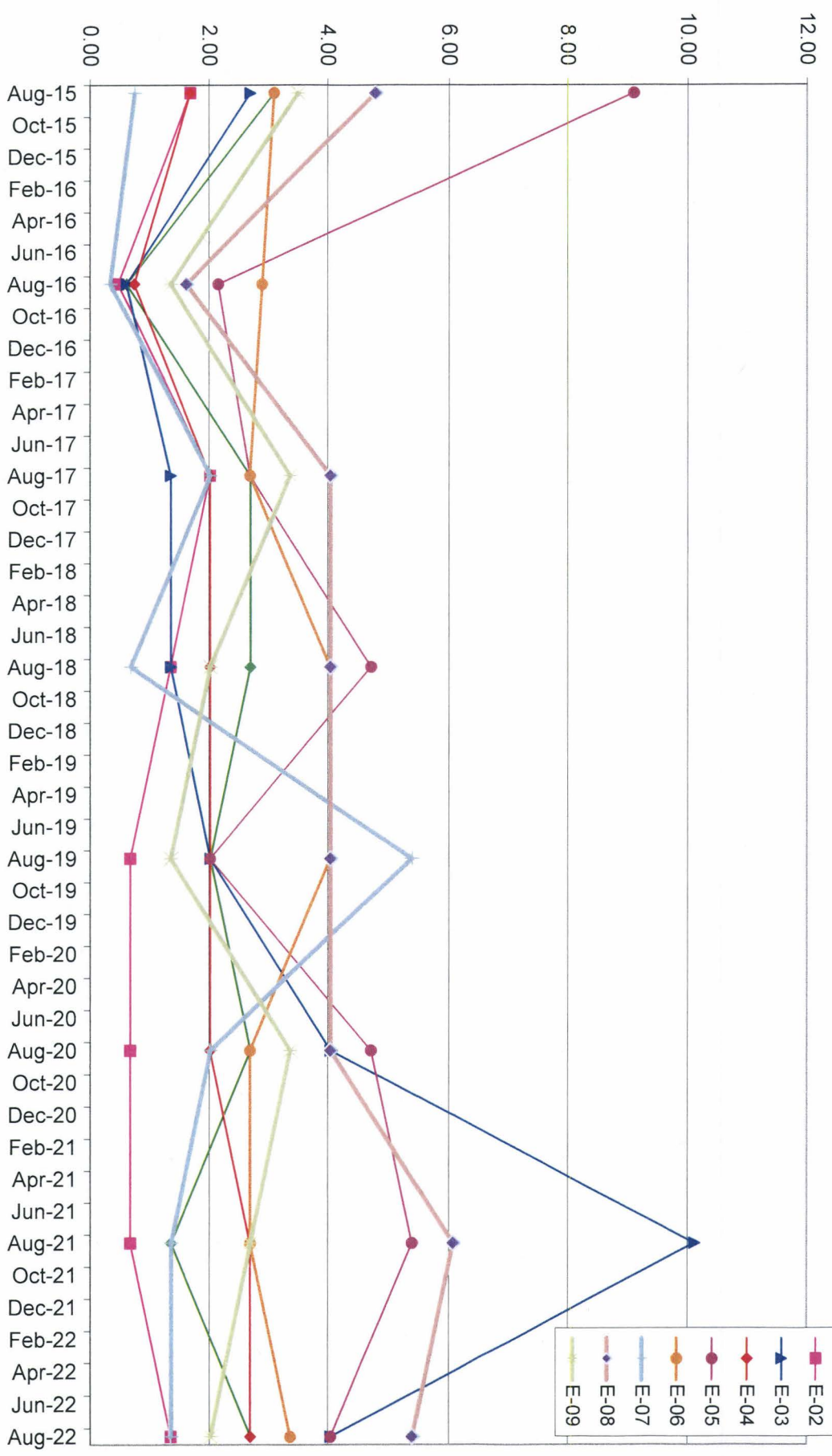
North and South Pb-210 Concentrations In Soil (pCi/g)



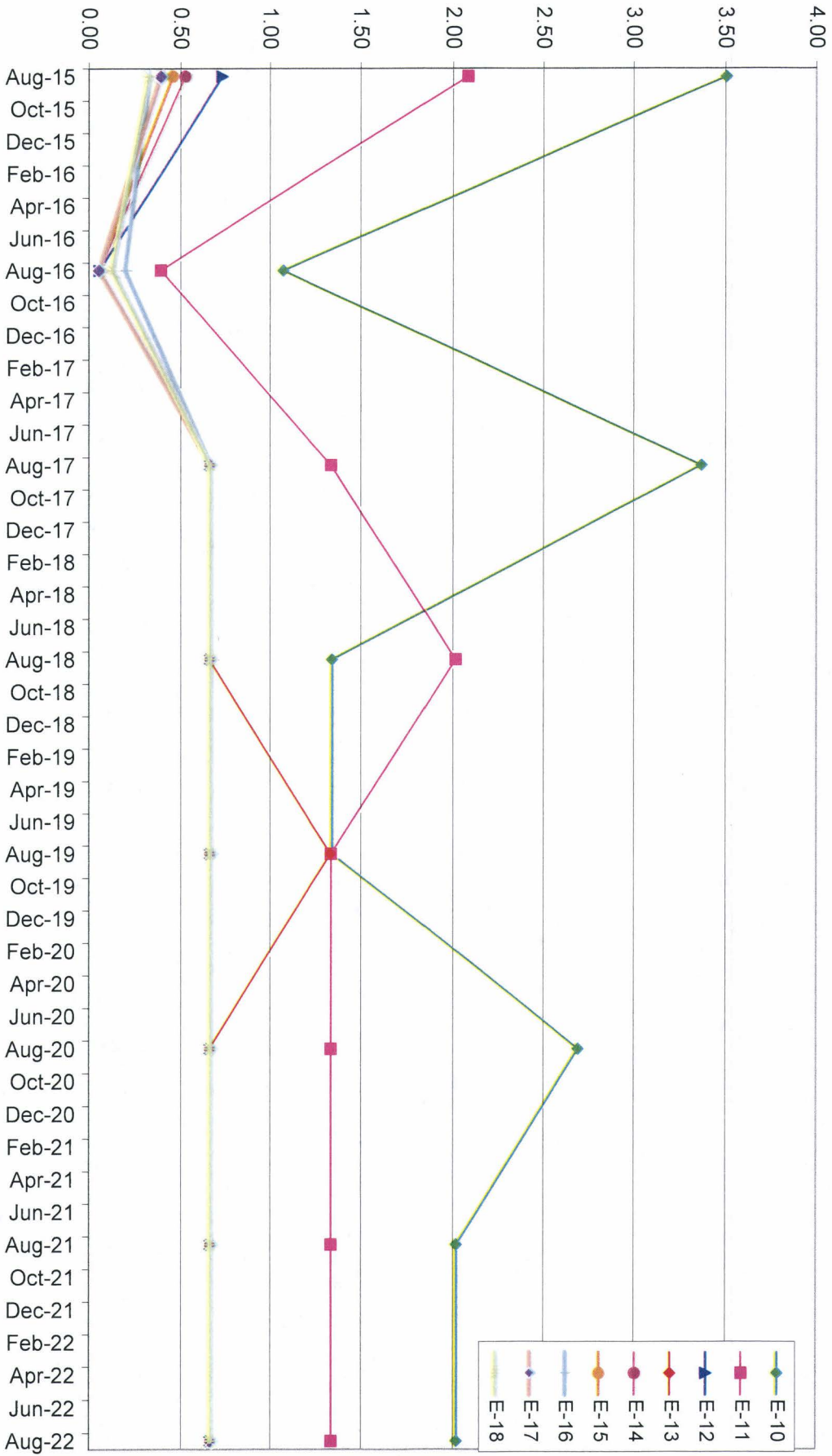
North and South Th-232 Concentrations In Soil (pCi/g)



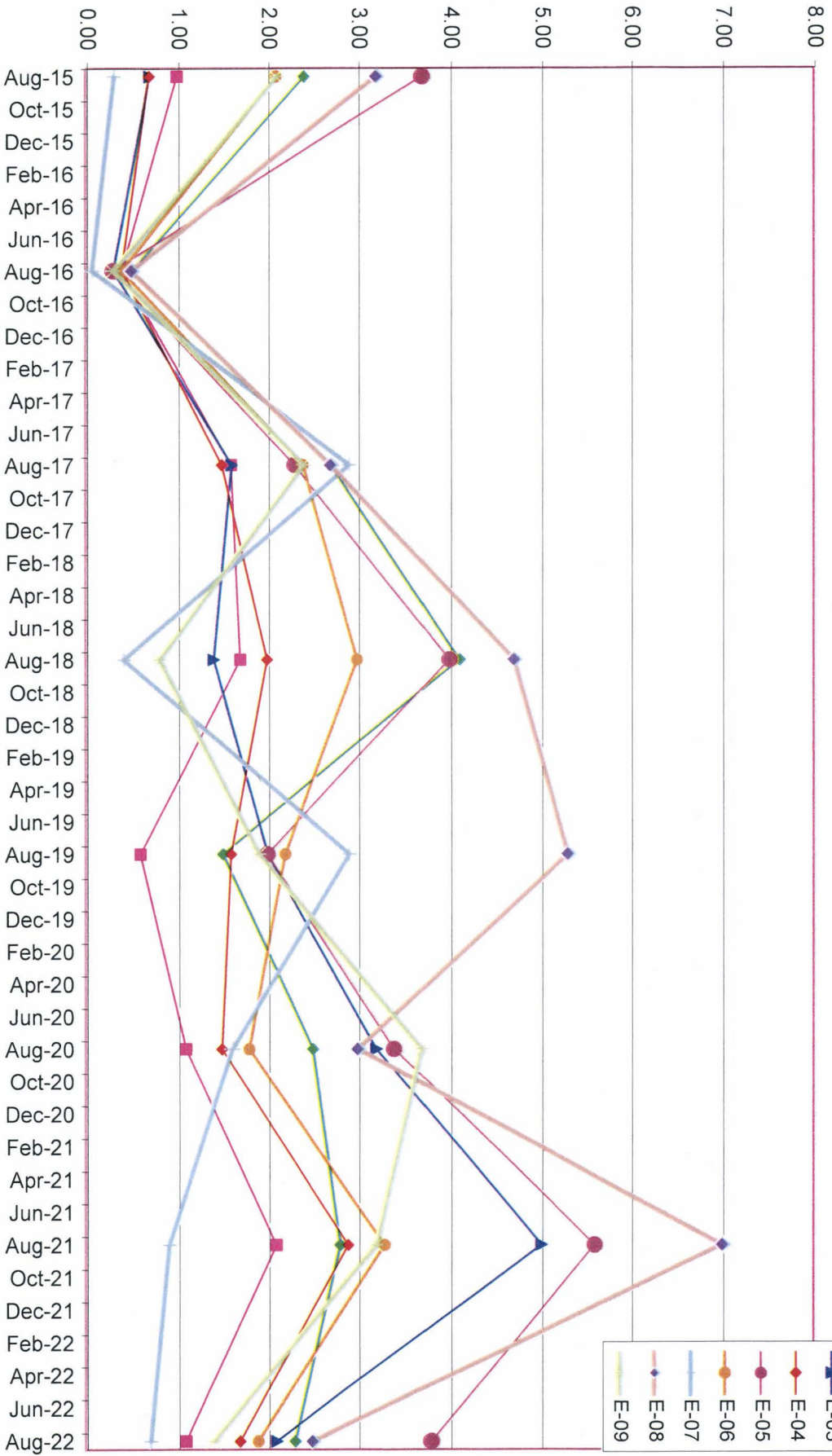
East (E-01 - E-09) Uranium-Nat. Concentrations In Soil (pCi/g)



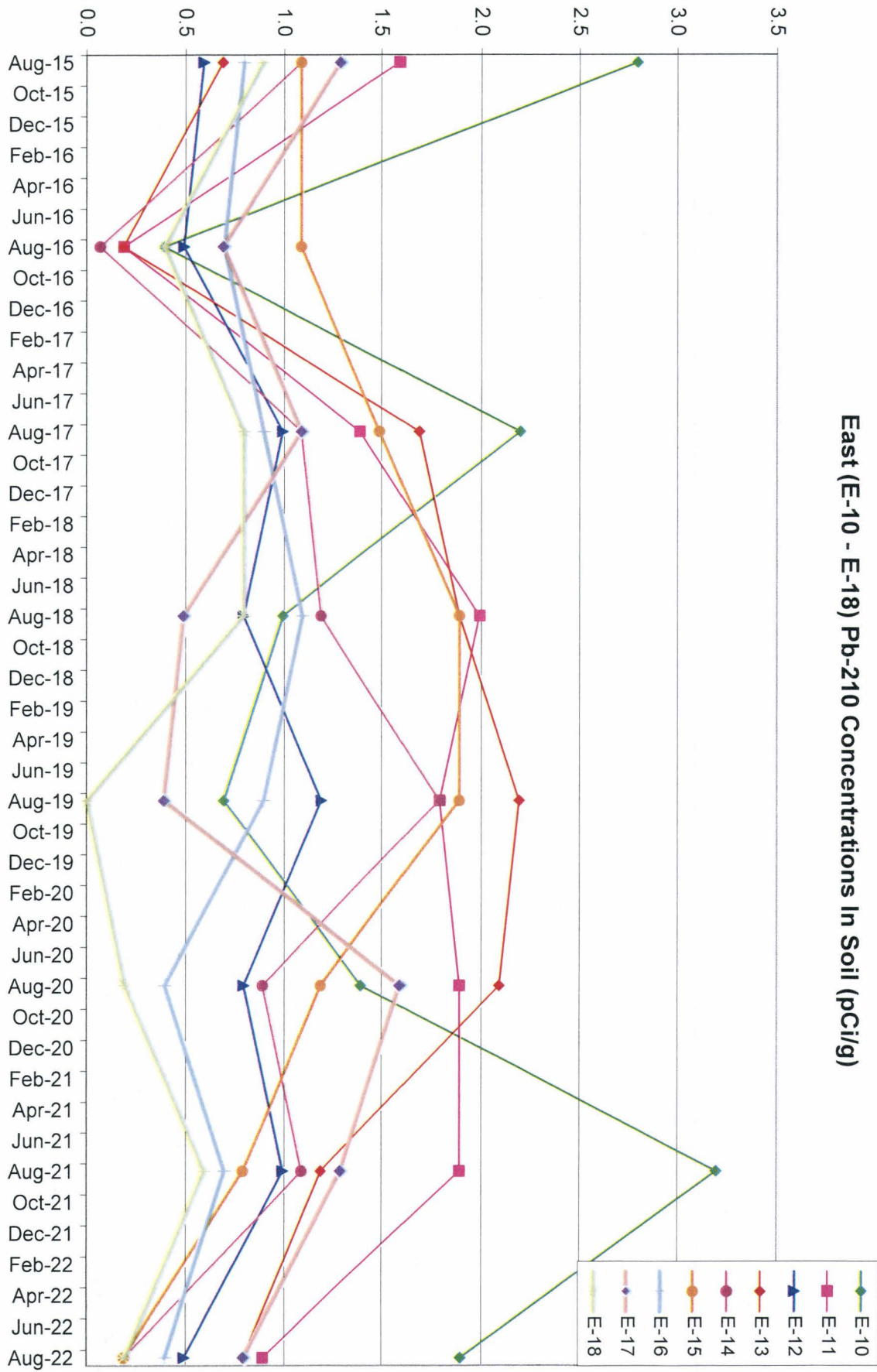
East (E-10 - E-18) Uranium-Nat. Concentrations In Soil (pCi/g)



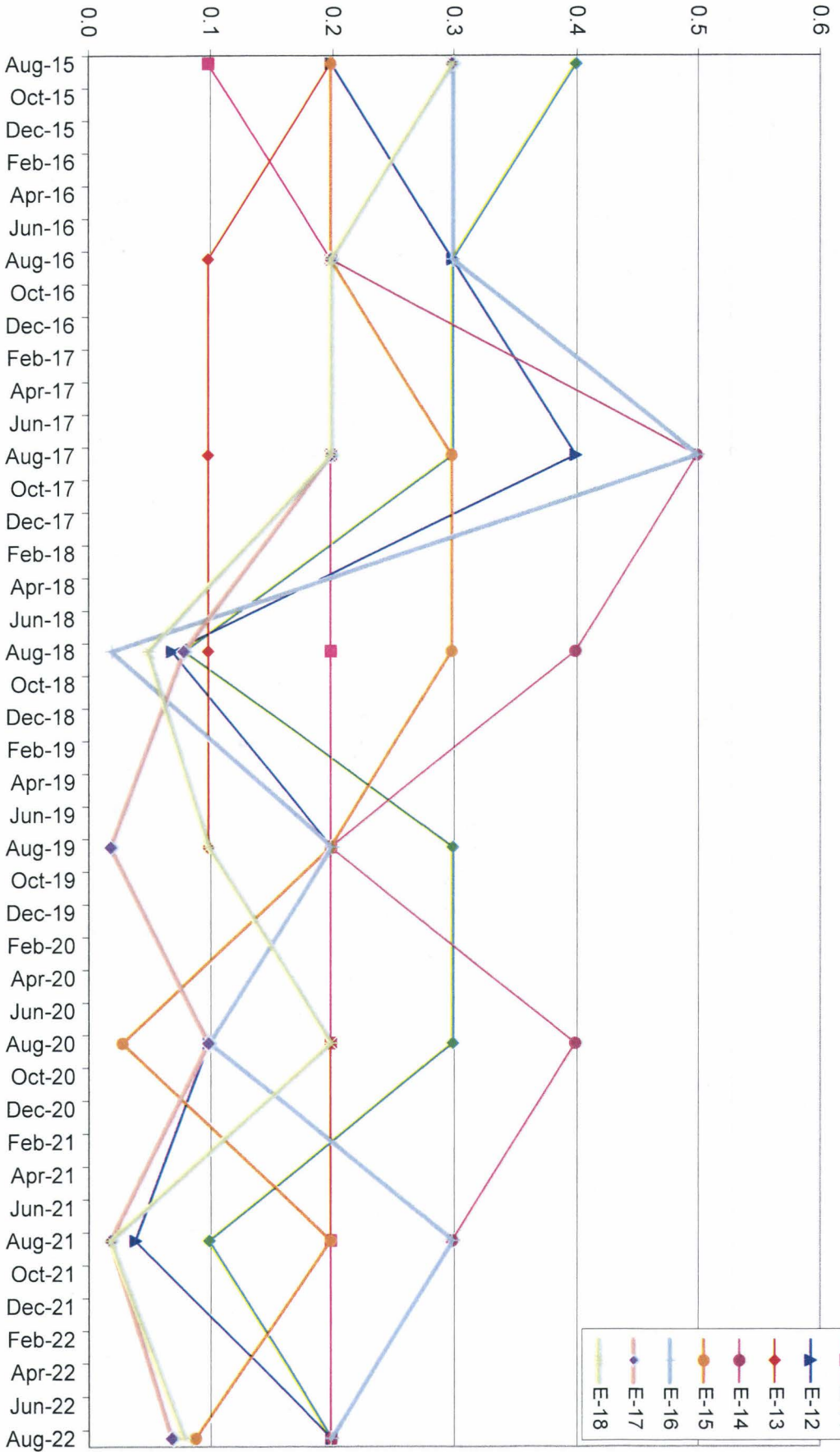
East (E-01 - E-09) Pb-210 Concentrations In Soil (pCi/g)



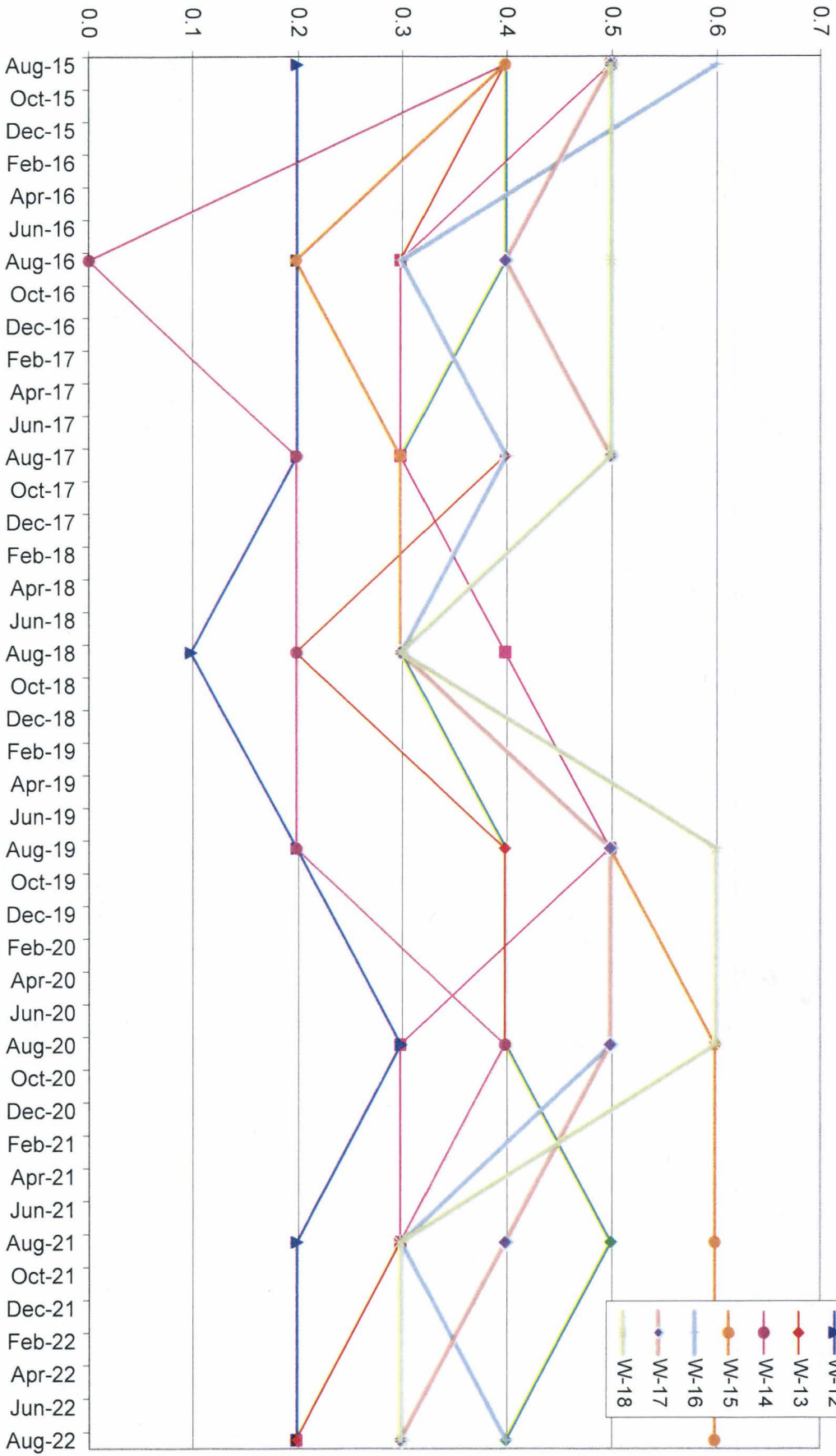
East (E-10 - E-18) Pb-210 Concentrations In Soil (pCi/g)



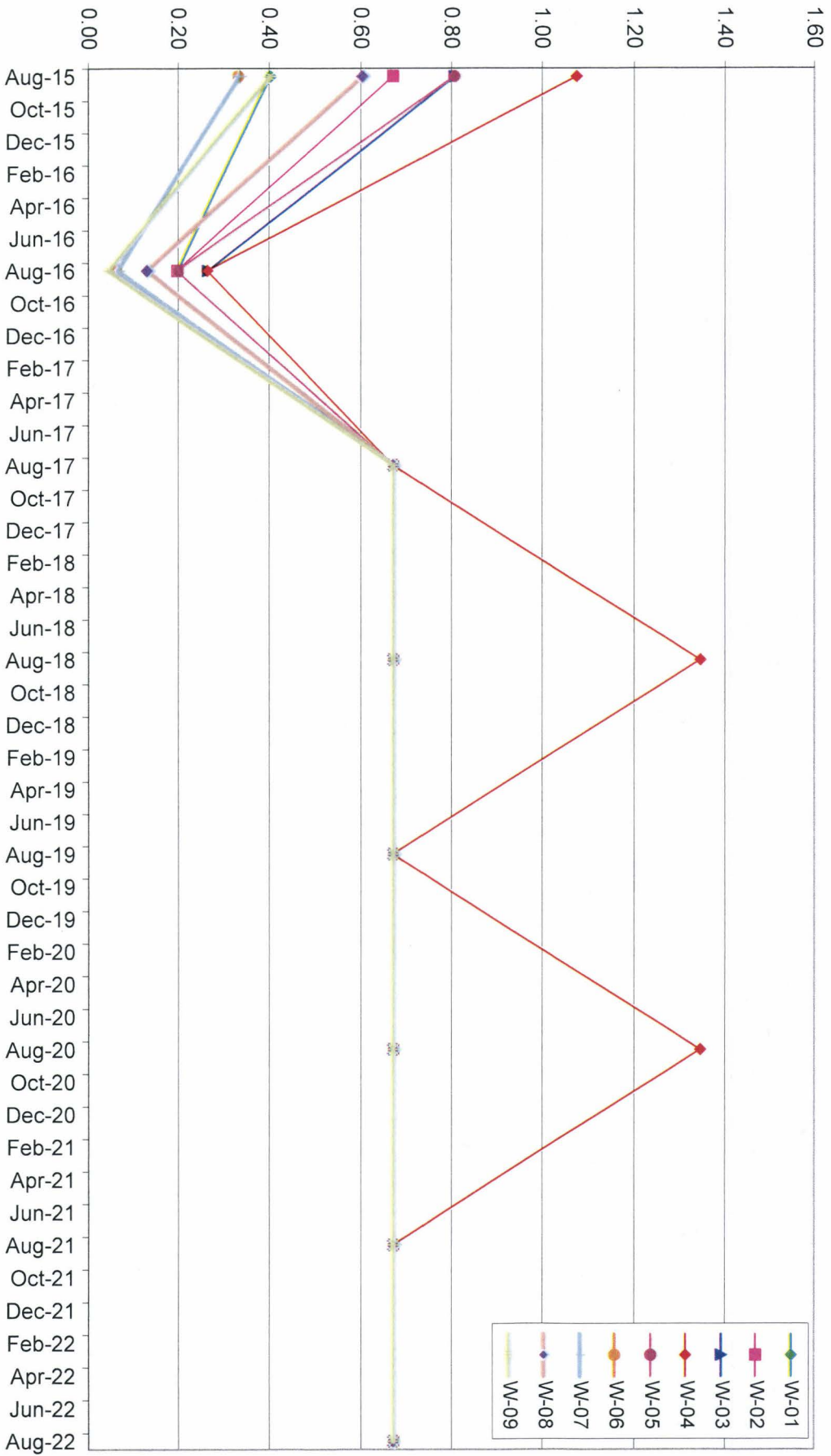
East (E-10 - E-18) Th-232 Concentrations In Soil (pCi/g)



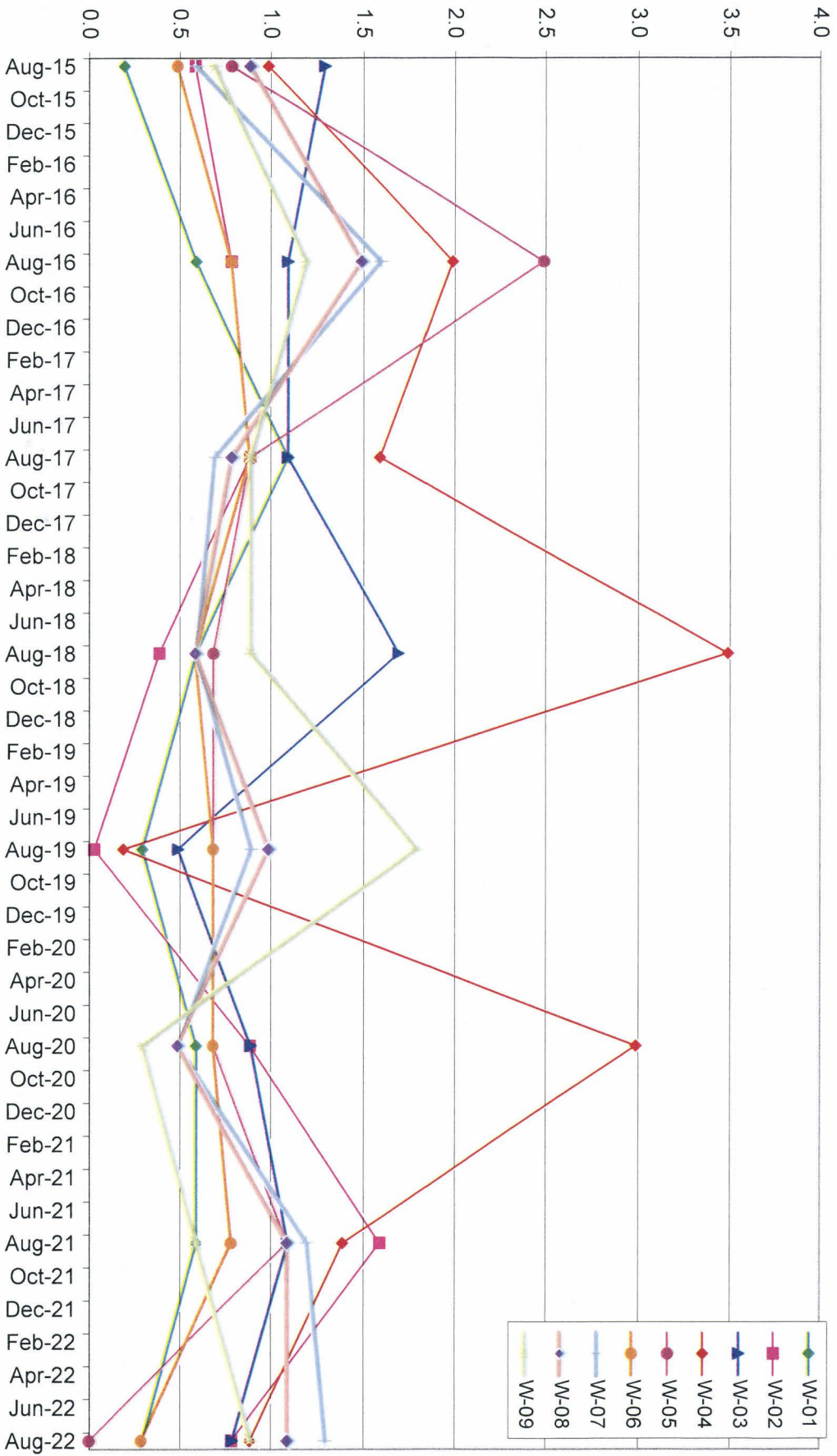
West (W-10 - W-18) Ra-226 Concentrations In Soil (pCi/g)



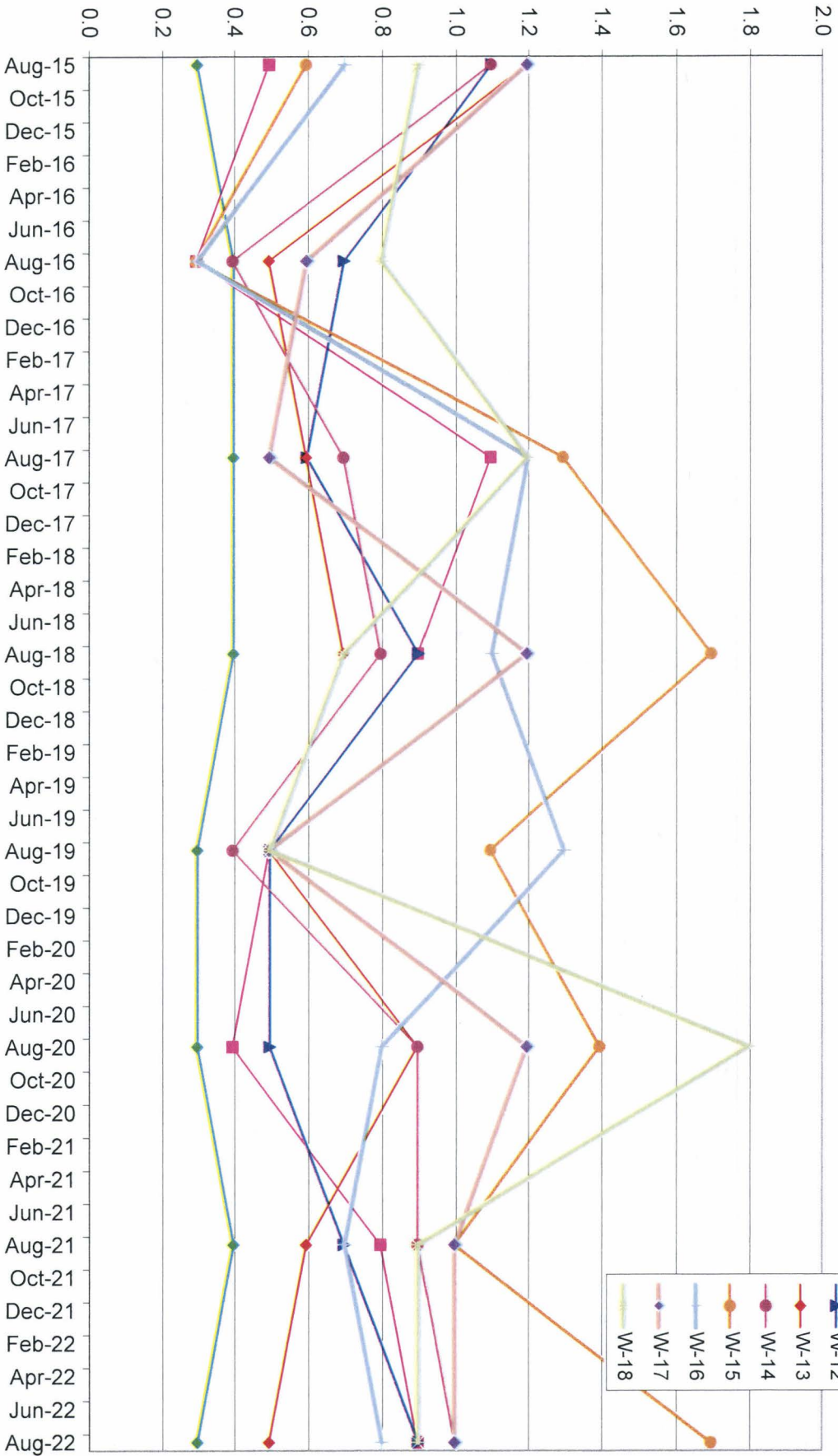
West (W-01 - W-09) Uranium-Nat. Concentrations In Soil (pCi/g)



West (W-01 - W-09) Pb-210 Concentrations In Soil (pCi/g)



West (W-10 - W-18) Pb-210 Concentrations In Soil (pCi/g)



West (W-10 - W-18) Th-232 Concentrations In Soil (pCi/g)

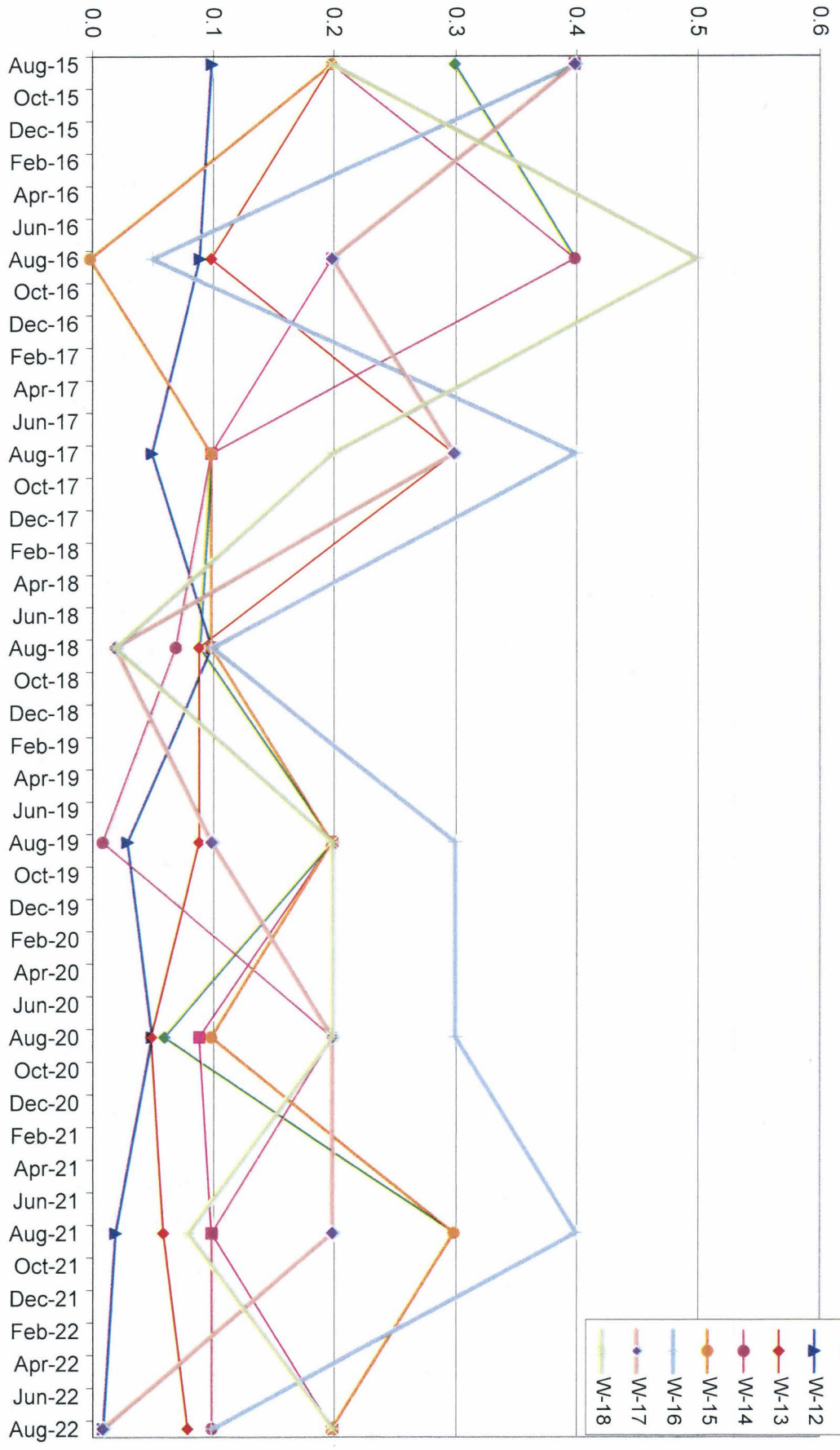


Table I-2
WHITE MESA MILL
Soil Sampling Results in the Four Cardinal Directions
(pCi/g)

Sample date	N-01				N-02				N-03				N-04				N-05				S-01				S-02				S-03			
	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232
Aug-15	0.3	0.47	0.8	0.3	0.5	0.41	0.3	0.3	0.6	0.61	0.9	0.4	0.6	0.41	0.2	0.2	0.8	0.95	1.0	0.3	0.3	0.20	1.1	0.3	0.60	0.54	0.50	0.60	0.3	0.34	1.1	<0.06
Aug-16	0.5	0.2	0.6	0.2	0.6	0.2	0.4	0.5	0.5	0.2	0.6	0.4	0.7	0.1	0.6	0.4	0.9	0.34	0.5	0.4	0.4	0.14	0.3	<0.08	0.20	0.05	0.70	0.20	0.2	0.07	0.8	0.3
Aug-17	0.7	<0.675	1.8	0.4	0.7	<0.675	1.1	0.3	0.9	0.7	1.3	0.3	1.0	0.7	1.4	0.3	0.6	<0.675	0.6	0.4	0.7	<0.675	1.0	0.4	0.8	1.4	0.8	0.6	0.4	<0.675	1.0	<0.07
Aug-18	0.5	<0.675	1.0	0.4	0.5	<0.675	1.1	0.2	0.8	0.7	2.0	0.2	1.2	0.7	1.3	0.1	1.1	1.4	2.4	0.2	0.1	<0.675	0.8	<0.02	0.2	<0.675	1.1	<0.05	0.3	<0.675	1.8	<0.03
Aug-19	0.4	<0.675	0.3	0.1	0.4	<0.675	1.0	0.2	0.4	<0.675	1.1	<0.06	0.8	0.7	1.5	<0.04	0.6	<0.675	0.4	0.2	0.2	<0.675	<0.2	<0.03	0.4	<0.675	<0.2	<0.06	0.3	<0.675	<0.2	0.005
Aug-20	0.6	<0.675	1.2	0.2	0.6	<0.675	1.5	0.2	0.8	<0.675	1.0	0.4	1.1	1.4	1.0	0.2	1.1	0.675	1.6	<0.1	0.2	<0.675	<0.05	<0.05	0.2	<0.675	0.5	<0.05	0.3	<0.675	0.5	<0.03
Aug-21	0.4	<0.675	1.2	0.1	0.6	<0.675	0.8	0.2	0.9	0.675	2.2	0.4	0.5	<0.675	0.4	0.2	1.0	0.675	2.2	<0.08	0.2	<0.675	0.90	<0.09	0.2	<0.675	0.3	<0.09	0.3	<0.675	0.7	<0.03
Aug-22	0.4	<0.675	0.7	0.2	0.3	<0.675	0.6	<0.003	0.7	0.675	1.0	0.3	0.4	<0.675	0.3	0.2	0.8	0.675	1.0	0.10	0.1	<0.675	<0.3	<0.05	0.2	<0.675	0.5	<0.07	0.3	<0.675	0.5	0.20

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Table I-2
WHITE MESA MILL
Soil Sampling Results in the Four Cardinal Directions
(pCi/g)

Sample date	E-01				E-02				E-03				E-04				E-05				E-06				E-07				E-08				E-09			
	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232
Aug-15	2.60	3.11	2.40	0.2	1.30	1.69	1.00	0.2	1.20	2.70	0.7	0.3	0.9	1.69	0.7	0.2	4.9	9.11	3.70	0.2	2.6	3.11	2.10	0.2	0.5	0.74	0.3	<0.1	3.5	4.79	3.2	0.2	2.0	3.51	2.1	0.2
Aug-16	1.40	0.61	0.50	0.3	1.70	0.47	0.40	0.2	1.60	0.61	0.3	0.3	1.3	0.74	0.4	0.2	4.0	2.16	0.3	0.3	4.0	2.90	0.4	0.2	1.2	0.34	<0.06	<0.08	3.5	1.62	0.5	0.2	2.5	1.35	0.3	0.2
Aug-17	3.2	2.70	2.7	0.3	1.9	2.03	1.6	0.2	1.6	1.35	1.6	0.2	1.5	2.03	1.5	<0.07	2.3	2.70	2.3	0.3	3.0	2.70	2.4	<0.1	2.7	2.03	2.9	<0.1	4.7	4.05	2.7	<0.09	4.4	3.38	2.4	1.3
Aug-18	2.2	2.70	4.1	<0.1	1.4	1.35	1.7	0.1	1.3	1.35	1.4	0.2	1.7	2.03	2.0	0.1	3.0	4.73	4.0	0.1	3.3	4.05	3.0	<0.08	0.4	0.68	0.4	<0.1	3.3	4.05	4.7	0.2	0.7	2.03	0.8	0.1
Aug-19	1.5	2.03	1.5	<0.1	0.7	0.675	0.6	0.3	2.2	2.03	2.0	0.3	1.5	2.03	1.6	0.2	1.4	2.03	2.0	0.2	2.2	4.05	2.2	0.1	3.1	5.40	2.9	0.2	4.8	4.05	5.3	0.2	1.5	1.35	1.9	0.2
Aug-20	3.6	2.70	2.5	0.2	1.2	0.675	1.1	0.1	4.4	4.05	3.2	0.2	1.8	2.03	1.5	<0.09	4.2	4.73	3.4	0.2	2.3	2.70	1.8	0.2	2.0	2.03	1.6	<0.1	3.3	4.05	3.0	0.3	3.9	3.38	3.7	0.1
Aug-21	2.7	1.35	2.8	0.1	1.5	0.675	2.1	0.2	4.8	10.13	5	0.2	2.9	2.70	2.9	0.2	5.4	5.4	5.6	<0.2	2.9	2.7	3.3	0.1	0.8	1.35	0.9	<0.1	6.3	6.075	7.0	<0.1	2.4	2.7	3.2	<0.1
Aug-22	3.2	2.70	2.3	<0.03	1.1	1.35	1.1	<0.02	2.1	4.05	2.1	<0.06	2.2	2.70	1.7	0.2	4.3	4.05	3.8	0.1	3.3	3.38	1.9	0.1	1.1	1.35	0.7	<0.02	3.8	5.40	2.5	<0.05	1.6	2.03	1.4	<0.05

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Table I-2
WHITE MESA MILL
Soil Sampling Results in the Four Cardinal Directions
(pCi/g)

E-10				E-11				E-12				E-13				E-14				E-15				E-16				E-17				E-18			
Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232
1.8	3.51	2.8	0.4	1.3	2.09	1.6	<0.1	0.6	0.74	0.6	0.2	0.6	0.41	0.7	0.2	0.4	0.54	1.1	0.2	0.4	0.47	1.1	0.2	0.5	0.34	0.8	0.3	0.5	0.41	1.3	0.3	0.6	0.34	0.9	0.3
2.0	1.08	0.4	0.3	0.8	0.41	0.2	0.2	0.5	0.07	0.5	0.3	1.0	0.07	<0.2	<0.1	0.4	0.07	<0.08	0.2	0.4	0.07	1.1	0.2	0.4	0.20	0.7	0.3	0.3	0.07	0.7	0.2	0.3	0.14	0.4	0.2
3.0	3.38	2.2	0.3	1.9	1.35	1.4	0.2	1.7	<0.675	1.0	0.4	1.9	<0.675	1.7	0.1	1.9	<0.675	1.1	0.5	1.6	<0.675	1.5	0.3	1.4	<0.675	0.9	0.5	0.8	<0.675	1.1	0.2	0.7	<0.675	0.8	0.2
0.8	1.35	1.0	<0.08	1.3	2.03	2.0	0.2	0.6	<0.675	0.8	<0.07	0.9	<0.675	1.9	0.1	0.4	<0.675	1.2	0.4	0.4	<0.675	1.9	0.3	0.4	<0.675	1.1	<0.02	0.2	<0.675	0.5	<0.08	0.3	<0.675	0.8	<0.05
0.6	1.35	0.7	0.3	1.3	1.35	1.8	0.2	1.5	0.68	1.2	0.2	1.5	1.35	2.2	<0.1	0.5	<0.675	1.8	0.2	0.7	<0.675	1.9	0.2	0.4	<0.675	0.9	0.2	0.3	<0.675	0.4	<0.02	0.3	<0.675	<0.01	0.1
1.4	2.70	1.4	0.3	1.4	1.35	1.9	0.2	0.6	<0.675	0.8	<0.1	1.3	<0.675	2.1	0.2	0.7	<0.675	0.9	0.4	0.5	<0.675	1.2	<0.03	0.5	<0.675	0.4	0.1	0.3	<0.675	1.6	0.1	0.5	<0.675	<0.2	0.2
2.1	2.03	3.2	<0.1	1.0	1.35	1.9	0.2	0.6	<0.675	1	<0.04	0.6	<0.675	1.2	0.2	0.5	<0.675	1.1	0.3	0.5	<0.675	0.8	0.2	0.4	<0.675	0.7	0.3	0.3	<0.675	1.3	<0.02	0.4	<0.675	0.6	<0.02
2.1	2.03	1.9	0.2	0.8	1.35	0.9	0.2	0.6	<0.675	0.5	0.2	0.7	<0.675	0.8	<0.09	0.4	<0.675	<0.2	0.2	0.5	<0.675	<0.2	<0.09	0.4	<0.675	0.4	0.2	0.3	<0.675	0.8	<0.07	0.3	<0.675	<0.2	<0.08

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Table I-2
WHITE MESA MILL
Soil Sampling Results in the Four Cardinal Directions
(pCi/g)

Sample date	W-01				W-02				W-03				W-04				W-05				W-06				W-07				W-08				W-09			
	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232
Aug-15	0.5	0.41	0.2	0.3	0.6	0.68	0.6	0.2	0.9	0.81	1.3	0.2	0.9	1.08	1.0	0.3	0.5	0.81	0.8	0.4	0.4	0.34	0.5	0.3	0.4	0.34	0.6	0.2	0.4	0.61	0.9	0.2	0.2	0.41	0.7	<0.09
Aug-16	0.6	0.20	0.6	0.5	1.0	0.20	0.8	0.3	0.8	0.27	1.1	0.2	0.6	0.27	2.0	0.2	0.4	0.20	2.5	0.5	0.4	0.07	0.8	0.1	0.3	0.07	1.6	0.3	0.4	0.14	1.5	0.2	0.2	0.05	1.2	<0.2
Aug-17	0.6	<0.675	1.1	0.1	0.6	<0.675	0.9	<0.1	0.7	0.675	1.1	0.2	0.9	0.675	1.6	<0.08	0.4	<0.675	0.9	<0.1	0.3	<0.675	0.9	<0.08	0.4	<0.675	0.7	0.4	0.3	<0.675	0.8	0.2	0.3	<0.675	0.9	<0.03
Aug-18	0.7	<0.675	0.6	0.3	0.6	<0.675	0.4	0.2	1.0	0.675	1.7	0.4	1.8	1.35	3.5	0.2	0.3	<0.675	0.7	0.2	0.3	<0.675	0.6	0.2	0.4	<0.675	0.6	0.1	0.3	<0.675	0.6	<0.1	0.2	<0.675	0.9	<0.02
Aug-19	0.5	<0.675	0.3	0.3	0.4	<0.675	<0.04	0.2	0.8	0.68	0.5	0.2	0.9	0.68	0.2	0.4	0.3	<0.675	0.7	0.1	0.5	<0.675	0.7	0.2	0.4	<0.675	0.9	0.4	0.3	<0.675	1.0	0.1	0.4	<0.675	1.8	<0.08
Aug-20	0.5	<0.675	0.6	0.3	1.1	0.68	0.9	0.1	1.0	<0.675	0.9	0.2	2.3	1.35	3.0	0.2	0.6	<0.675	0.7	0.3	0.3	<0.675	0.7	0.2	0.3	<0.675	0.5	0.1	0.2	<0.675	0.5	<0.01	0.3	<0.675	0.3	<0.03
Aug-21	0.7	<0.675	0.6	0.3	1	<0.675	1.6	0.2	0.9	<0.675	1.1	0.3	0.9	0.675	1.4	0.2	0.8	<0.675	1.1	0.2	0.4	<0.675	0.8	<0.1	0.4	<0.675	1.2	<0.1	0.4	<0.675	1.1	0.2	0.4	<0.675	0.6	<0.05
Aug-22	0.6	<0.675	<0.3	0.5	0.9	0.675	0.8	0.3	0.7	0.675	0.8	0.3	0.8	0.675	0.9	0.2	0.6	<0.675	<0.01	<0.04	0.2	<0.675	<0.3	<0.06	0.4	<0.675	1.3	0.1	0.3	<0.675	1.1	0.1	0.3	<0.675	0.9	<0.09

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Table I-2
WHITE MESA MILL
Soil Sampling Results in the Four Cardinal Directions
(pCi/g)

W-10				W-11				W-12				W-13				W-14				W-15				W-16				W-17				W-18							
Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232	Ra-226	U-Nat	Pb-210	Th-232
0.4	0.34	0.3	0.3	0.5	0.20	0.5	0.4	0.2	0.14	1.1	<0.1	0.4	0.27	1.2	0.2	0.4	0.27	1.1	<0.2	0.4	0.34	0.6	0.2	0.6	0.34	0.7	0.4	0.5	0.34	1.2	0.4	0.5	0.34	0.9	0.2				
0.4	0.07	0.4	0.4	0.3	0.14	0.3	0.2	0.2	0.05	0.7	<0.09	0.3	0.14	0.5	<0.1	<0.002	0.27	0.4	0.4	0.2	0.27	0.3	0.0	0.3	0.41	0.3	0.0	0.4	0.34	0.6	0.2	0.5	0.34	0.8	0.5				
0.3	<0.675	0.4	0.1	0.3	<0.675	1.1	<0.1	0.2	<0.675	0.6	<0.05	0.4	<0.675	0.6	0.3	0.2	<0.675	0.7	<0.1	0.3	<0.675	1.3	0.1	0.4	<0.675	1.2	0.4	0.5	<0.675	0.5	0.3	0.5	<0.675	1.2	0.2				
0.3	<0.675	0.4	<0.09	0.4	<0.675	0.9	<0.1	0.1	<0.675	0.9	0.1	0.2	<0.675	0.7	<0.09	0.2	<0.675	0.8	<0.07	0.3	<0.675	1.7	<0.1	0.3	<0.675	1.1	<0.1	0.3	<0.675	1.2	<0.02	0.3	<0.675	0.7	<0.02				
0.4	<0.675	0.3	0.2	0.5	<0.675	0.5	0.2	0.2	<0.675	0.5	<0.03	0.4	<0.675	0.5	<0.09	0.2	<0.675	0.4	<0.01	0.5	<0.675	1.1	0.2	0.5	<0.675	1.3	0.3	0.5	<0.675	0.5	0.1	0.6	<0.675	0.5	0.2				
0.4	<0.675	0.3	<0.06	0.3	<0.675	0.4	0.09	0.3	<0.675	0.5	<0.05	0.4	<0.675	0.9	<0.05	0.4	<0.675	0.9	0.2	0.6	<0.675	1.4	0.1	0.5	<0.675	0.8	0.3	0.5	<0.675	1.2	0.2	0.6	<0.675	1.8	0.2				
0.5	<0.675	0.4	0.3	0.3	<0.675	0.8	<0.1	0.2	<0.675	0.7	<0.02	0.3	<0.675	0.6	<0.06	0.3	<0.675	0.9	0.1	0.6	<0.675	1	0.3	0.3	<0.675	0.7	0.4	0.4	<0.675	1.0	0.2	0.3	<0.675	0.9	<0.08				
0.4	<0.675	<0.3	0.2	0.2	<0.675	0.9	0.2	0.2	<0.675	0.9	<0.01	0.2	<0.675	0.5	<0.08	0.3	<0.675	1.0	0.1	0.6	<0.675	1.7	0.2	0.4	<0.675	0.8	0.1	0.3	<0.675	1.0	<0.01	0.3	<0.675	0.9	0.2				

< indicates the value reported by the laboratory. Negative values are reported as the MDC.