Laboratory Corrosivity Testing

ABC123 South Western Solar

Project Number: 123456789

Jay Kay Testing, Inc.
(814) 404-9283
DC , MD, PA, VA
www.jaykaytesting.com

Sample ID		Depth			pH[1]		ORP	Resistivity			Chloride[2]		Sulfate[3]		Sulfide[4]	
					ASTM G-51		ASTM D-1498	ASTM G-57			ASTM D-512		ASTM D-516		Methylene Titration	
Boring ID	Sample ID	Top, ft	Bottom, ft	Natural Water Content, %	pH (1:1)	Test Temperature, °C	ORP (Redox), mV (1:1)	As Received, Ω-cm	Minimum, Ω-cm	Saturated, Ω-cm	Chlorides, PPM (mg/kg) (1:1)	Chlorides, µg/kg (1:1)	Sulfates, PPM (mg/kg) (3:1)	Sulfates, % Dry Weight (3:1)	Sulfides Ion Presence (1:1)	Remarks
B-1	S-4	4	6	14.6	7.02	20.2	382	5,450	3,987		9	9,000	1	0.0001	negative	
B-2	S-5	6	8	13.7	6.89	20.2	312	6,150	5,500		11	11,000	11	0.0011	negative	
B-3	S-4	4	6	12.9	6.95	20.1	345	5,750	5,450		2	2,000	5	0.0005	negative	
B-4	S-5	6	8	13.6	7.25	20.2	299	9,789	6,800		13	13,000	10	0.0010	negative	
B-5	S-6	8	10	18.9	6.49	20.1	245	4,420	2,870		3	3,000	6	0.0006	negative	
B-6	S-7	10	12	13.1	6.79	20.2	317	6,799	4,990		8	8,000	7	0.0007	negative	
B-7	S-8	12	14	11.9	5.45	20.1	497	7,970	5,870		7	7,000	14	0.0014	negative	
B-8	S-9	14	16	3.1	4.99	20.0	347	22,500	16,500		25	25,000	68	0.0068	negative	
B-9	S-10	16	18	14.5	4.79	20.1	249	5,490	4,230		8	8,000	47	0.0047	negative	
B-10	S-11	18	20	14.9	4.57	20.2	229	4,875	4,750		4	4,000	38	0.0038	negative	
B-11	S-12	20	22	17.6	6.13	20.3	219	3,459	2,995		15	15,000	254	0.0254	negative	
B-12	S-13	22	24	36.8	6.29	20.2	257	1,950	1,750		17	17,000	14	0.0014	negative	
B-13	S-14	24	26	34.9	5.79	20.1	159	1,870	1,620		25	25,000	8	0.0008	negative	
B-14	S-15	26	28	32.1	7.29	20.1	187	2,100	1,050		143	143,000	5	0.0005	negative	
B-15	S-16	28	30	13.2	7.19	20.1	197	5,780	4,750		14	14,000	14	0.0014	negative	
B-16	S-17	30	32	13.9	6.49	20.1	289	6,740	4,700		25	25,000	70	0.0070	negative	

[1] pH verified with pH paper.

[2] Verified with separate chloride photometer method.

[3] Turbidimetric photometer method. Verified with separate turbidimetric titration method. All dilutions are 1:1 except sulfate, 3:1.

[4] Pomeroy methylene blue method (titration). Verified with separate colorimetric method.