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Envelope Number: 5616619
Case Number: 08-2024-CV-00694
Case Style: Casey Voigt, et al. vs. North Dakota Public Service Commission, et al.



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Case Number	08-2024-CV-00694
Case Style	Casey Voigt, et al. vs. North Dakota Public Service Commission, et al.
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Casey and Julie Voigt v. Coyote Creek Mining Company, LLC

Case No. RC-23-348

COY-038 OB Sample Analyses Spreadsheet

[Placeholder] - Excel workbook in electronic format

Voigt Exhibit 30

COY-039\OB Sample Analyses	Average Overburden SAR*
<u>CC12101C</u>	9.98
<u>CC12127C</u>	33.16
<u>CC12129C</u>	28.42
<u>CC12143C</u>	31.55
Total Average	25.78

*Average for values from surface to top of coal seam

<u>Ref#</u>	<u>Lab#</u>	<u>Depth</u>	<u>EC</u>	<u>Cat/EC</u>	<u>Ca</u>	<u>Mg</u>	<u>Na</u>	<u>SAR</u>	<u>pH</u>	<u>Texture</u>	<u>Sand</u>	<u>Silt</u>	<u>Clay</u>	<u>Sat. Percent</u>
14380841	55266	0-5	2.24	10.97	7.0	3.2	14.4	6.36	7.72	LOAMY SAND	81	11	8	30.4
14380842	55268	5-10	2.32	11.20	3.9	5.8	16.3	7.45	8.08	SANDY LOAM	73	13	14	53.0
14380843	55269	10-15	2.24	10.72	5.1	5.1	13.9	6.15	8.35	SANDY LOAM	65	17	18	51.4
14380844	55270	15-20	1.70	10.36	2.5	2.3	12.8	8.25	8.32	SANDY LOAM	69	13	18	49.5
14380845	55272	20-25	1.92	9.96	1.4	1.2	16.5	14.48	8.35	SANDY CLAY LOAM	45	15	40	82.6
14380846	55280	25-28.55	2.15	10.88	1.6	1.3	20.5	17.20	7.58	CLAY	33	15	52	96.8
14380847	55281	40.5-45.5	1.40	10.13	0.3	0.3	13.6	24.59	7.96	CLAY	13	11	76	162.2

Overburden (Rows 2-7) average SAR: 9.98

<u>Ref#</u>	<u>Lab#</u>	<u>Depth</u>	<u>EC</u>	<u>Cat/EC</u>	<u>Ca</u>	<u>Mg</u>	<u>Na</u>	<u>SAR</u>	<u>pH</u>	<u>Texture</u>	<u>Sand</u>	<u>Silt</u>	<u>Clay</u>	<u>Sat. Percent</u>
14384231	68705	0-5	3.33	10.81	1.5	5.5	29.0	15.52	8.57	CLAY	27	21	52	77.3
14384232	68707	5-10	10.38	15.65	21.0	43.9	97.5	17.12	8.41	CLAY LOAM	31	35	34	74.3
14384233	68708	10-15	5.10	11.34	3.6	7.7	46.6	19.60	8.40	CLAY LOAM	21	43	36	90.7
14384234	68709	15-20	2.65	9.72	0.7	0.9	24.2	27.24	8.79	SILTY CLAY LOAM	13	49	38	118.7
14384235	68710	20-25	3.23	9.98	0.7	0.8	30.7	34.66	9.01	CLAY LOAM	25	45	30	98.6
14384236	68711	25-30	2.73	10.06	0.5	0.5	26.4	36.89	8.85	SILTY CLAY LOAM	15	47	38	118.4
14384237	68712	30-35	3.73	8.10	0.5	0.5	29.3	42.04	8.71	LOAM	41	37	22	71.7
14384238	68714	35-40	2.18	10.39	0.5	0.3	21.9	35.27	9.01	SILTY CLAY	9	45	46	129.1
14384239	68715	40-45	2.73	10.34	0.3	0.3	27.6	48.81	8.93	CLAY LOAM	29	35	36	100.9
14384240	68716	45-50	2.55	10.05	0.3	0.3	25.0	46.00	8.73	CLAY	3	37	60	96.4
14384241	68718	50-54.35	2.52	10.34	0.4	0.3	25.3	41.61	8.31	CLAY	13	17	70	129.3
14384242	68719	65.3-70.3	4.73	10.96	1.3	1.4	49.2	42.82	6.86	CLAY	27	11	62	101.5

Overburden (Rows 2-12) Average SAR: 33.16

<u>Ref#</u>	<u>Lab#</u>	<u>Depth</u>	<u>EC</u>	<u>Cat/EC</u>	<u>Ca</u>	<u>Mg</u>	<u>Na</u>	<u>SAR</u>	<u>pH</u>	<u>Texture</u>	<u>Sand</u>	<u>Silt</u>	<u>Clay</u>	<u>Sat. Percent</u>
14355631	68728	0-5	2.44	11.43	5.0	6.1	16.8	7.12	7.91	SANDY CLAY LOAM	53	25	22	42.4
14355632	68729	5-10	6.57	13.34	8.2	18.2	61.3	16.90	8.23	CLAY	29	29	42	65.3
14355633	68730	10-15	10.92	16.62	25.7	50.0	105.7	17.18	6.23	CLAY	21	23	56	73.7
14355634	68731	15-20	7.89	14.94	22.3	24.8	70.8	14.57	7.94	CLAY	9	21	70	94.4
14355635	68732	20-25	3.32	10.99	1.6	1.6	33.3	26.33	8.44	CLAY	16	35	49	103.9
14355636	68733	25-29.45	4.03	10.6	2.0	3.6	37.1	22.08	8.68	CLAY LOAM	21	51	28	85.9
14355637	68734	31-35	2.94	9.38	0.8	0.7	26.1	30.81	8.33	CLAY	11	19	70	97.4
14355638	68735	35-40	3.96	9.05	0.9	0.7	34.3	39.43	8.74	SILTY CLAY	5	43	52	109.1
14355639	68736	40-45	2.69	9.91	0.5	0.4	25.7	37.70	8.97	SILTY CLAY LOAM	18	49	33	113.7
14355640	68737	45-50	2.95	10.98	0.6	0.5	31.3	42.46	8.24	CLAY	14	37	49	111.1
14355641	68738	50-55	1.6	10.82	0.3	0.2	16.8	31.59	9.18	CLAY LOAM	28	39	33	128.0
14355642	68739	55-60	1.84	9.62	0.4	0.3	17.1	30.72	9.17	CLAY LOAM	39	29	32	115.9
14355643	68740	60-65	1.74	10.15	0.2	0.2	17.3	38.62	9.31	SANDY CLAY LOAM	66	13	21	97.3
14355644	68741	65-70	2.08	10	0.4	0.2	20.2	36.42	9.04	SANDY LOAM	74	11	15	77.0
14355645	68742	70-75	1.55	9.49	0.3	0.2	14.2	29.46	9.40	CLAY LOAM	20	41	39	98.6
14355646	68743	75-80	1.57	9.6	0.4	0.2	14.5	26.48	9.37	CLAY LOAM	30	37	33	104.9
14355647	68744	80-85	2.19	10.14	0.5	0.3	21.4	34.12	8.93	SILTY CLAY	16	43	41	118.0
14355648	68745	85-89.5	4.45	9.69	1.9	1.7	39.5	29.58	8.49	CLAY	22	31	47	136.5
14355649	68746	101-106	3.71	10.91	0.8	0.7	39.0	44.85	8.07	CLAY	16	35	49	83.8

Overburden (Rows 2-19) Average SAR: 28.42

<u>Ref#</u>	<u>Lab#</u>	<u>Depth</u>	<u>EC</u>	<u>Cat/EC</u>	<u>Ca</u>	<u>Mg</u>	<u>Na</u>	<u>SAR</u>	<u>pH</u>	<u>Texture</u>	<u>Sand</u>	<u>Silt</u>	<u>Clay</u>	<u>Sat. Percent</u>
14384301	68765	0-5	6.52	14.20	13.8	18.6	60.2	14.98	8.19	SILTY CLAY	16	41	43	80.9
14384302	68766	5-10	2.49	10.65	0.6	1.0	24.9	27.94	8.87	CLAY LOAM	27	37	36	137.1
14384303	68767	10-15	6.61	17.03	3.6	3.7	105.3	55.05	8.66	CLAY LOAM	24	41	35	121.8
14384304	68768	15-20	2.43	10.35	0.6	0.5	24.1	32.43	8.74	CLAY	7	29	64	132.5
14384305	68769	20-24.7	2.35	10.80	0.8	0.7	23.9	27.33	7.53	CLAY	18	17	65	100.2
14384306	68770	35.7-40.7	3.23	11.22	3.1	2.2	30.9	19.00	7.81	CLAY	17	17	66	109.9

Overburden (Rows 2-6) Average SAR: 31.55