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Envelope Number: 5616544
Case Number: 08-2024-CV-00694
Case Style: Casey Voigt, et al. vs. North Dakota Public Service Commission, et al.



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Court	Burleigh County
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-037 OB Sample Analyses Spreadsheet

[Placeholder] - Excel workbook in electronic format

Voigt Exhibit 18

COY-036\OB Sample Analyses	Average Overburden SAR*
<u>CC12011C</u>	18.44
<u>CC12012C</u>	20.00
<u>CC12013C</u>	22.72
<u>CC12014C</u>	19.12
Total Average	20.07

*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>
14366651	36213	0-5	9.95	14.51	21.3	40.4	82.7	14.89	8.0	CLAY	21	30	49	72.3
14366652	36214	5-10	10.21	13.70	17.4	36.7	85.7	16.47	8.0	CLAY	9	28	63	98.8
14366653	36215	10-15	8.61	13.75	18.7	27.7	72.0	14.96	7.9	CLAY	13	40.0	47.0	97.0
14366654	36216	15-20	4.64	12.22	4.0	7.3	45.4	19.08	8.2	SILTY CLAY	15	42	43	144.3
14366655	36217	20-25	4.09	11.42	2.9	3.9	39.9	21.58	8.1	CLAY	9	36	55	127.3
14366656	36218	25-28	5.30	7.73	2.0	2.7	36.3	23.66	7.7	CLAY	11	16	73	112.4
14366657	36219	39-44	2.10	10.64	1.3	1.3	19.8	17.38	7.4	CLAY	23	26	51	102.6

Overburden (Rows 2-7) Average SAR: 18.44

<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>
13251641	36136	0-5	1.82	10.30	9.0	4.0	5.7	2.24	7.1	SANDY LOAM	70	14	16	71.3
13251642	36137	5-10	1.50	10.62	7.9	3.6	4.5	1.86	7.7	CLAY LOAM	34	36	30	56.9
13251643	36138	10-15	1.04	11.93	6.6	3.1	2.7	1.23	7.7	CLAY LOAM	22	42	36	66.2
13251644	36139	15-20	1.27	12.10	7.4	3.9	4.1	1.72	7.7	CLAY LOAM	22	44	34	78.6
13251645	36140	20-25	1.36	11.75	5.9	3.9	6.1	2.77	8.0	CLAY LOAM	30	42	28	108.0
13251646	36141	25-30	1.98	10.01	3.5	2.8	13.5	7.54	8.1	CLAY LOAM	22	46	32	81.9
13251647	36142	30-35	2.35	10.57	1.5	1.2	22.2	19.20	7.9	CLAY	20	38	42	136.9
13251648	36143	35-40	2.67	10.52	1.1	0.9	26.2	26.63	8.2	CLAY	10	37	53	125.6
13251649	36144	40-45	2.04	10.39	0.3	0.2	20.6	39.56	8.8	CLAY	12	22	66	173.1
13251650	36145	45-50	2.33	10.01	0.4	0.4	22.6	36.31	8.8	CLAY	16	16	68	180.2
13251651	36146	50-55	2.32	10.65	0.6	0.5	23.6	31.79	8.6	CLAY LOAM	22	38	40	168.0
13251652	36147	55-60	2.13	10.32	0.4	0.4	21.2	33.70	8.9	SANDY CLAY LOAM	51	24	25	110.1
13251653	36148	60-65	2.09	10.16	0.4	0.4	20.5	33.71	8.8	SILTY CLAY LOAM	19	42	39	147.6
13251654	36149	65-70	2.34	9.43	0.4	0.4	21.3	35.30	8.8	SILTY CLAY	13	44	43	154.9
13251655	36150	70-72	1.45	11.09	0.4	0.3	15.4	26.40	8.2	CLAY LOAM	23	44	33	142.2
13251656	36151	84-89	1.73	10.55	0.3	0.2	17.7	32.96	8.5	SILTY CLAY LOAM	15	52	33	85.7

Overburden (Rows 2-16) Average SAR: 20.00

<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>
14366601	35886	0-5	2.00	12.14	6.1	6.2	12.0	4.82	8.1	SANDY CLAY LOAM	48	17	35	68.7
14366602	35887	5-10	5.19	14.84	6.3	17.6	53.1	15.37	8.1	CLAY LOAM	42	19	39	74.3
14366603	35888	10-15	7.53	13.72	16.2	27.1	60.1	12.92	8.0	LOAM	38	35	27	47.6
14366604	35889	15-20	5.71	14.18	13.9	19.1	48.0	11.84	7.9	CLAY	6	29	65	94.4
14366605	35890	20-25	5.73	14.19	17.1	18.8	45.4	10.72	7.8	CLAY	12	31	57	95.0
14366606	35891	25-30	6.65	17.61	30.2	28.5	58.4	10.78	5.9	CLAY LOAM	28	37	35	56.9
14366607	35892	30-35	6.10	14.93	14.1	13.7	63.3	16.98	6.8	CLAY	28	23	49	76.6
14366608	35893	35-40	3.77	9.74	1.6	1.5	33.6	27.08	7.9	CLAY	12	23	65	117.8
14366609	35894	40-45	2.92	10.41	0.5	0.4	29.4	42.11	8.9	SILTY CLAY	16	41	43	100.1
14366610	35895	45-50	1.95	10.23	0.3	0.3	19.3	33.08	8.8	SILTY CLAY	12	43	45	115.8
14366611	35896	50-55	1.73	10.10	0.3	0.3	16.8	28.92	8.8	SILTY CLAY	16	41	43	135.5
14366612	35897	55-60	1.55	10.35	0.2	0.2	15.6	32.34	9.0	CLAY LOAM	28	37	35	80.3
14366613	35898	60-65	2.22	8.86	0.3	0.3	19.0	33.52	8.9	SILTY CLAY	16	43	41	96.9
14366614	35899	65-70	1.76	10.39	0.4	0.4	17.5	27.06	8.7	SILTY CLAY	14	41	45	109.8
14366615	35900	70-75	2.47	8.99	0.5	0.5	21.2	30.64	8.3	CLAY	16	11	73	106.3
14366616	35901	76-76.7	2.68	10.02	1.1	0.9	24.9	25.34	7.4	CLAY	31	16	53	104.7
14366617	35902	88.2-93.2	2.91	11.26	4.1	3.4	25.2	13.02	7.7	CLAY	18	37	45	90.5

Overburden (Rows 2-17) Average SAR: 22.72

<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>
14366621	35866	0-5	1.59	11.88	7.2	5.7	6.0	2.35	7.6	SANDY CLAY LOAM	53	18	29	48.4
14366622	35867	5-10	1.05	11.90	4.5	5.3	2.7	1.23	7.9	CLAY LOAM	37	26	37	61.9
14366623	35868	10-15	1.35	11.77	4.4	7.3	4.2	1.71	7.9	SANDY LOAM	67	14	19	58.8
14366624	35869	15-20	1.95	12.34	6.9	9.2	8.0	2.80	7.9	SANDY LOAM	75	12	13	37.8
14366625	35870	20-25	1.73	12.35	6.3	7.5	7.5	2.84	8.0	LOAMY SAND	81	8	11	36.4
14366626	35871	25-30	1.63	12.94	6.6	8.0	6.5	2.43	7.9	SANDY LOAM	77	8	15	40.1
14366627	35872	30-35	1.59	12.25	6.0	7.2	6.3	2.45	7.9	SANDY LOAM	73	10	17	41.3
14366628	35873	35-40	1.53	10.91	4.0	4.9	7.8	3.68	8.2	SANDY LOAM	71	12	17	42.7
14366629	35874	40-45	2.41	10.25	1.3	1.2	22.2	19.80	8.2	CLAY	23	20	57	131.6
14366630	35875	45-50	2.29	10.24	0.9	0.8	21.8	23.79	8.4	CLAY	17	28	55	123.0
14366631	35876	50-55	1.85	9.85	0.3	0.3	17.7	33.20	9.1	CLAY	23	36	41	138.0
14366632	35877	55-60	2.09	9.41	0.3	0.3	19.0	33.93	9.2	CLAY LOAM	27	42	31	162.5
14366633	35878	60-65	1.82	10.41	0.2	0.3	18.4	36.49	9.1	CLAY LOAM	29	40	31	138.8
14366634	35879	65-70	1.95	10.20	0.3	0.3	19.3	34.21	9.0	CLAY LOAM	29	36	35	130.3
14366635	35880	70-75	2.32	10.28	0.3	0.3	23.2	41.97	9.1	SANDY CLAY LOAM	61	16	23	95.7
14366636	35881	75-80	2.02	11.06	0.3	0.3	21.7	38.13	9.0	SANDY CLAY LOAM	49	24	27	105.6
14366637	35882	80-85	1.98	10.45	0.4	0.3	20.0	33.00	8.9	CLAY LOAM	35	30	35	111.9
14366638	35883	85-90	2.49	10.20	0.7	0.7	24.0	29.01	8.7	CLAY	11	36	53	134.2
14366639	35884	90-94	1.11	10.97	0.3	0.3	11.5	20.18	8.4	CLAY	17	8	75	124.7
14366640	35885	106-111	0.86	10.62	0.4	0.4	8.3	12.84	8.1	CLAY	11	26	63	100.2

Overburden (Rows 2-20) Average SAR: 19.12