

EF45 - BUCHLYVIE FARM SOIL TESTING RESULTS - 2023

Approved By: General Manager

Version: 2

Issue Date: 04 April 2024

Review Date: 04 April 2027



Leather Naturally

*Not Tested (NT) No Sample (NS)

ANALYSIS	PIVOT 1				PIVOT 2				PIVOT 3				PIVOT 4			
	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE
pH - pH units	6.3	6.8	6.1	6.40	5.8	6.3	6.9	6.33	6	6.3	6.6	6.30	5	6	6.6	5.87
Electrical Conductivity µS/cm	320	320	1230	623.33	170	160	270	200.00	350	400	590	446.67	280	300	1070	550.00
TKN-N - mg/kg	1280	470	220	656.67	1310	430	370	703.33	690	890	320	633.33	1610	350	390	783.33
Available Phosphorus (Colwell P) - mg/kg	55	3	26	28.00	51	49	3.6	34.53	5.2	25	3.9	11.37	46	4.6	4.6	18.40
Emerson Aggregate Class - Class	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Permeability - mm/hr	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Exchangeable Calcium - mg/kg	2435	1261	940	1545.33	1149	1180	1361	1230.00	1202	1238	1149	1196.33	903	949	1107	986.33
Exchangeable Magnesium - mg/kg	293	667	1137	699.00	292	282	1107	560.33	875	313	1303	830.33	173	775	848	598.67
Exchangeable Potassium - mg/kg	245	93	236	191.33	169	169	161	166.33	131	167	251	183.00	271	115	307	231.00
Exchangeable Sodium - mg/kg	137	137	572	282.00	41	36	327	134.67	208	293	745	415.33	102	179	202	161.00
Available Nitrate - mg/kg	38	0.1	0.69	12.93	24	0.1	0.31	8.14	46	0.1	21	22.37	47	2.3	0.42	16.57
Total Nitrogen - %	1320	470	221	670.33	1330	430	370	710.00	736	892	341	656.33	1660	352	393	801.67
Cadmium - mg/kg	0.5	0.5	0.7	0.57	0.6	0.5	0.6	0.57	0.7	0.5	0.5	0.57	0.5	0.5	0.5	0.50
Organic Carbon - %	1.7	0.5	0.2	0.80	1.9	0.5	0.1	0.83	1	0.3	0.2	0.50	1.7	0.4	0.1	0.73
Total Phosphorus - mg/kg	5	84.6	63	50.87	558	95.5	98.9	250.80	197	123	75.6	131.87	319	82	203	201.33
Chromium - mg/kg	1	31.4	35.6	22.67	49.5	41.1	32	40.87	31	27.5	25.2	27.90	24.2	25.9	33.1	27.73
Chromium VI- mg/kg	1	1	1	1.00	1	1	1	1.00	1	1	1	1.00	1	1	1	1.00
Total Sulfur (LECO) - %	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Available Phosphorus (Bray P) - mg/kg	35.4	2.7	5.1	14.40	28.3	25.6	2.3	18.73	1	13.5	3.5	6.00	20.5	1.9	3.6	8.67
Exchangeable Aluminium - mg/kg	1	1	1	1.00	16	1	1	6.00	1	1	1	1.00	22	25	1	16.00
SAR - SAR Units	1.66	5.96	5.21	4.28	1.84	1.6	3.33	2.26	4.44	4.5	7.06	5.33	3.2	4.95	6.63	4.93
Chloride - mg/kg	110	60	59	76.33	47	30	25	34.00	99	160	190	149.67	64	95	120	93.00
CEC - cmol/kg	15.83	12.66	17.18	15.22	9.02	9.05	17.79	11.95	14.48	10.51	20.38	15.12	7.22	12.57	14.21	11.33
ESP - %of ECEC	3.8	4.7	14.5	7.67	2	1.7	8	3.90	6.2	12.1	15.9	11.40	6.2	6.2	6.2	6.20

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ANALYSIS	PIVOT 5				IRRIGATION SECTOR 13				IRRIGATION SECTOR 14				IRRIGATION SECTOR 15			
	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE	0-10 cm	10-30 cm	30-60 cm	AVE
pH - pH units	6.6	6.5	7.1	6.73	6.1	5.7	6.3	6.03	5.6	5.6	6.3	5.83	5.7	5.5	6.1	5.77
Electrical Conductivity µS/cm	130	170	510	270.00	220	290	340	283.33	380	350	450	393.33	250	150	320	240.00
TKN-N - mg/kg	1070	730	380	726.67	1100	320	270	563.33	1210	410	370	663.33	1190	290	260	580.00
Available Phosphorus (Colwell P) - mg/kg	42	3	2.6	15.87	51	6.9	5.9	21.27	62	4.6	4.3	23.63	18	3.9	3.6	8.50
Emerson Aggregate Class - Class	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Permeability - mm/hr	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Exchangeable Calcium - mg/kg	1023	1067	925	1005.00	795	1030	740	855.00	1297	1078	1021	1132.00	564	999	629	730.67
Exchangeable Magnesium - mg/kg	297	730	86	371.00	144	610	663	472.33	305	1126	741	724.00	158	719	852	576.33
Exchangeable Potassium - mg/kg	183	138	159	160.00	169	287	125	193.67	179	189	230	199.33	83	92	113	96.00
Exchangeable Sodium - mg/kg	105	315	419	279.67	160	96	243	166.33	206	474	741	473.67	97	156	200	151.00
Available Nitrate - mg/kg	73	0.32	0.14	24.49	18	1.9	0.1	6.67	25	51	8.8	28.27	23	0.63	23	15.54
Total Nitrogen - %	1140	731	380	750.33	1120	322	271	571.00	1240	462	379	693.67	1210	291	283	594.67
Cadmium - mg/kg	0.5	0.5	0.5	0.50	0.5	0.5	0.5	0.50	0.5	0.5	0.5	0.50	0.5	0.5	0.5	0.50
Organic Carbon - %	1.5	1.4	0.6	1.17	1.8	0.4	0.1	0.77	1.6	0.4	0.3	0.77	1.7	0.3	0.2	0.73
Total Phosphorus - mg/kg	283	107	73.4	154.47	312	100	88.3	166.77	332	86.4	85	167.80	303	65.8	59.7	142.83
Chromium - mg/kg	25.8	27.9	23.8	25.83	18	23	23.5	21.50	33.7	32.8	32.3	32.93	26.2	26.8	25.9	26.30
Chromium VI- mg/kg	1	1	1	1.00	1	1	1	1.00	1	1	1	1.00	1	1	1	1.00
Total Sulfur (LECO) - %	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!	NT	NT	NT	#DIV/0!
Available Phosphorus (Bray P) - mg/kg	28.2	2.2	4.2	11.53	36.3	4	1.7	14.00	29.2	2.4	2.3	11.30	9.2	1.5	1.5	4.07
Exchangeable Aluminium - mg/kg	37	1	1	13.00	35	6	51	30.67	1	1	1	1.00	48	1	11	20.00
SAR - SAR Units	2.55	0.92	5.02	2.83	3.29	5.13	3.23	3.88	3.75	4.39	5.75	4.63	2.68	2.41	4.46	3.18
Chloride - mg/kg	12	39	100	50.33	64	72	130	88.67	120	100	170	130.00	43	28	91	54.00
CEC - cmol/kg	8.96	13.14	14.01	12.04	6.72	11.9	11.3	9.97	10.43	17.24	20.11	15.93	5.29	11.87	11.57	9.58
ESP - %of ECEC	5.1	10.4	13	9.50	10.4	10.5	9.4	10.10	8.6	12	16	12.20	8	5.7	7.5	7.07

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