

Soil Monitoring Data December 2013

Published: 15 January 2014 Licensee: Cargill Newcastle

EPL no.: 58 EPA Point ID	Date of Sampling	Date Results Received	Pollutant	Measurement Period and Monitoring Frequency Required by Licence	Units of Measure	December 2013		
						Min Value	Mean Value	Max Value
14 – Surface	16- 17/12/13	08/01/14	рН	Yearly	pН	6.9	7.2	7.6
			Available Phosphorus (Bray)*	Yearly	mg/kg	2.5	6.2	13.9
			Available Phosphorus (Colwell)**	Yearly	mg/kg	38.0	114.5	306.0
			Chloride	Yearly	mg/kg	40.0	101.7	340.0
			Conductivity	Yearly	μS/cm	130.0	245.5	466.0
			Exchangeable Calcium	Yearly	meq/100g	6.9	9.1	13.5
			Exchangeable Magnesium	Yearly	meq/100g	0.9	1.4	2.5
			Exchangeable Potassium	Yearly	meq/100g	0.3	0.4	0.5
			Exchangeable Sodium	Yearly	meq/100g	0.4	0.8	1.6
			Cation Exchange Capacity	Yearly	meq/100g	8.9	11.6	15.3
			Moisture Content	Yearly	%	10.1	18.0	26.5
14 – Sub- surface	16- 17/12/13	08/01/14	рН	Yearly	рН	7.1	7.4	7.8
			Available Phosphorus (Bray)*	Yearly	mg/kg	1.6	2.7	3.8
			Available Phosphorus (Colwell)**	Yearly	mg/kg	17.0	38.3	67.0
			Chloride	Yearly	mg/kg	10.0	31.7	60.0
			Conductivity	Yearly	μS/cm	85.0	123.5	212.0
			Exchangeable Calcium	Yearly	meq/100g	4.6	7.1	14.3
			Exchangeable Magnesium	Yearly	meq/100g	0.6	0.8	1.1
			Exchangeable Potassium	Yearly	meq/100g	0.1	0.2	0.3
			Exchangeable Sodium	Yearly	meq/100g	0.2	0.6	0.8
			Cation Exchange Capacity	Yearly	meq/100g	5.9	8.6	15.8
			Moisture Content	Yearly	%	8.4	12.0	15.5



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						Min Value	Mean Value	Max Value
15 – Surface	16- 17/12/13	08/01/14	рН	Yearly	рН	7.4	7.5	7.7
			Available Phosphorus (Bray)*	Yearly	mg/kg	1.8	3.1	4.6
			Available Phosphorus (Colwell)**	Yearly	mg/kg	34	41.7	51
			Chloride	Yearly	mg/kg	30	106.7	240
			Conductivity	Yearly	μS/cm	131	220.0	378
			Exchangeable Calcium	Yearly	meq/100g	5.1	8.6	15
			Exchangeable Magnesium	Yearly	meq/100g	0.4	0.9	1.7
			Exchangeable Potassium	Yearly	meq/100g	0.1	0.2	0.4
			Exchangeable Sodium	Yearly	meq/100g	0.3	0.4	0.6
			Cation Exchange Capacity	Yearly	meq/100g	5.9	10.1	17.6
			Moisture Content	Yearly	%	8.5	15.9	27.7
15 – Sub- surface	16- 17/12/13	08/01/14	рН	Yearly	рН	7.7	7.9	8.0
			Available Phosphorus (Bray)*	Yearly	mg/kg	<1.0	1.6	2.9
			Available Phosphorus (Colwell)**	Yearly	mg/kg	8.0	12.0	19.0
			Chloride	Yearly	mg/kg	10.0	13.3	20.0
			Conductivity	Yearly	μS/cm	79.0	93.3	115.0
			Exchangeable Calcium	Yearly	meq/100g	5.3	5.5	5.8
			Exchangeable Magnesium	Yearly	meq/100g	0.2	0.2	0.3
			Exchangeable Potassium	Yearly	meq/100g	<0.1	<0.1	<0.1
			Exchangeable Sodium	Yearly	meq/100g	0.2	0.2	0.2
			Cation Exchange Capacity	Yearly	meq/100g	5.7	5.9	6.3
			Moisture Content	Yearly	%	6.8	9.2	11.9



EPA Point ID	Sampling Date	Date Results Received	P. M Fi	Measurement Period and	Units of Measure	December 2013		
				Monitoring Frequency Required by Licence		Min Value	Mean Value	Max Value
16 – Surface	16- 17/12/13	08/01/14	рН	Yearly	рН	7.6	7.6	7.7
			Available Phosphorus (Bray)*	Yearly	mg/kg	2.3	7.0	11.6
			Available Phosphorus (Colwell)**	Yearly	mg/kg	40	94.3	140
			Chloride	Yearly	mg/kg	20	133.3	300
			Conductivity	Yearly	μS/cm	176	274.7	385
			Exchangeable Calcium	Yearly	meq/100g	8.3	10.2	13.3
			Exchangeable Magnesium	Yearly	meq/100g	0.6	1.1	1.8
			Exchangeable Potassium	Yearly	meq/100g	0.2	0.3	0.3
			Exchangeable Sodium	Yearly	meq/100g	0.2	0.5	0.9
			Cation Exchange Capacity	Yearly	meq/100g	9.4	12.1	16.4
			Moisture Content	Yearly	%	10.6	18.8	29.3
16 – Sub- surface	16- 17/12/13	08/01/14	рН	Yearly	рН	8.0	8.1	8.2
			Available Phosphorus (Bray)*	Yearly	mg/kg	1.2	2.2	3.9
			Available Phosphorus (Colwell)**	Yearly	mg/kg	9.0	26.0	39.0
			Chloride	Yearly	mg/kg	10.0	43.3	110.0
			Conductivity	Yearly	μS/cm	107.0	138.7	188.0
			Exchangeable Calcium	Yearly	meq/100g	7.7	8.8	9.9
			Exchangeable Magnesium	Yearly	meq/100g	0.4	0.5	0.7
			Exchangeable Potassium	Yearly	meq/100g	<0.1	<0.1	0.2
			Exchangeable Sodium	Yearly	meq/100g	0.1	0.3	0.6
			Cation Exchange Capacity	Yearly	meq/100g	8.4	9.7	10.6
			Moisture Content	Yearly	%	7.7	9.2	11.4



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						Min Value	Mean Value	Max Value
17 – Surface	16- 17/12/13	08/01/14	рН	Yearly	рН	7	7.3	7.6
			Available Phosphorus (Bray)*	Yearly	mg/kg	3.8	10.6	30
			Available Phosphorus (Colwell)**	Yearly	mg/kg	55	158.3	321
			Chloride	Yearly	mg/kg	70	216.7	330
			Conductivity	Yearly	μS/cm	267	385.3	519
			Exchangeable Calcium	Yearly	meq/100g	6.1	7.4	9
			Exchangeable Magnesium	Yearly	meq/100g	0.6	0.8	0.9
			Exchangeable Potassium	Yearly	meq/100g	0.1	0.2	0.3
			Exchangeable Sodium	Yearly	meq/100g	0.3	0.5	0.7
			Cation Exchange Capacity	Yearly	meq/100g	7.3	8.8	10.4
			Moisture Content	Yearly	%	14.8	26.2	41.5
17 – Sub- surface	16-17/12/13	08/01/14	рН	Yearly	рН	7.6	7.8	7.9
			Available Phosphorus (Bray)*	Yearly	mg/kg	1.2	2.6	6.5
			Available Phosphorus (Colwell)**	Yearly	mg/kg	19	39.5	48
			Chloride	Yearly	mg/kg	10	36.7	50
			Conductivity	Yearly	μS/cm	96	162.5	199
			Exchangeable Calcium	Yearly	meq/100g	4.8	6.2	7.6
			Exchangeable Magnesium	Yearly	meq/100g	0.2	0.2	0.3
			Exchangeable Potassium	Yearly	meq/100g	<0.1	<0.1	<0.1
			Exchangeable Sodium	Yearly	meq/100g	0.2	0.4	0.5
			Cation Exchange Capacity	Yearly	meq/100g	5.4	6.9	8.3
			Moisture Content	Yearly	%	4.8	12.7	17.9