



**Royal  
HaskoningDHV**  
*Enhancing Society Together*

## **Section 7 Appendix 7.2** **Sediment Quality Data**

[Blank Page]

RAW DATA ONLY

PPB

LSN	TS (%)	23BA	ACENAPH	ACENAPT	ANTHRAC	BAA	BAP	BBF	BENZGHI	BEP	BKF	C1N	C1PHEN
2014/17019	45.5501		214.36	814.52	548.33	975.06	889.23	1337.52	809.36	967.2	510.31	11134.99	5403.3
2014/17020	55.21069		273.72	561.88	583.94	888.31	701.25	913.79	489.64	548.64	345.45	8566.97	3961.68
2014/17021	81.24189		6.5	13.97	13.7	21.25	16.7	24.72	12.05	13.33	9.24	168.76	124.18
2014/17022	48.79497		2587.2	11953.84	3859.01	2781.21	1177.26	1330.62	511.29	802.92	445.3	125347.7	20183.04
2014/17023	46.64362		4046.07	18870.61	5703.1	3712.34	1480.31	1228.42	454.14	900.65	455.55	231192.6	26558.46
2014/17024	46.46338		5661.02	24129.47	7784.29	4879.09	2108.48	1921.35	742.68	1482.52	574.41	327376.6	29317.29
2014/17025	81.19041		35.83	211.3	77.25	117.44	82.07	79.73	82.62	88.12	35.68	5552.09	1322.03
2014/17026	45.1974		91.03	365.7	334.69	805.41	791.47	967.77	707.34	714.76	464.18	7165.7	4120.6
2014/17027	55.69892		78.84	396.05	370.51	926.15	950.33	1254.49	805.94	834.24	519.77	9461.29	4513.11
2014/17028	58.93814		170.28	892.69	534.43	967.54	750.15	970.35	578.21	641.34	386.68	13020.06	5083.61
2014/17029	51.50005		1564.22	7283.99	2339.46	2171.01	1162.65	1294.84	667.21	774.57	509.2	77226.51	13384.23
2014/17030	51.81569		2087.85	12302.13	3301.69	2520.3	1240.06	1168.16	537.6	784.65	506.45	101795.4	15953.84
2014/17031	49.93056		53.36	325.6	304.54	903.92	908.89	1232.53	738	802.56	493.39	8853.31	4044.2
2014/17032	63.2645		95.03	509.75	437.39	943.2	824.26	927.66	735.9	743.96	410.33	12485.74	4800.13
2014/17033	47.41863		124.26	455.59	402.99	936.78	900.81	1134.96	760.26	812.44	492.98	9459.03	4439.54
2014/17034	43.72462		2160.04	11032.34	3537.48	3185.03	1886.75	1870.46	889.75	1094.57	756.12	93965.02	18564.92
2014/17035	39.24144		3500.72	20986.68	7675.6	5953.26	3345.92	3406.42	1476.19	2485.68	1045.95	271461	30922.76
2014/17036	43.75572		1979.95	8522.13	3669	2813.39	1556.96	1808.55	907.3	1368.76	584.43	82593.46	18717.73
2014/17037	76.20991		189.65	738.85	366.6	364.68	240.2	271.74	210.85	255.47	108.67	9773.51	3678.53
2014/17038	43.87153		111.84	426.86	501.72	1195.71	1363.56	1816.36	1118.75	1103.61	759.57	9161.03	4534.48
2014/17039	52.38133		292.03	1361.65	735.01	1153.28	872.4	1136.93	661.67	715.3	451.23	17567.61	6510.9
2014/17040	45.5671		1768.86	6681.79	3696.11	3313.77	1860.74	2139.89	1050.24	1642.53	725.43	105639.1	19508.98

LSN	TS (%)	C2N	C3N	CHRYSEN	DBENZAH	FLUORAN	FLUOREN	INDPYR	NAPTH	PERYLEN	PHENANT	PYRENE	THC
2014/17019	45.5501	10279.38	15350.61	728.37	195.48	2365.14	1765.98	684.98	4346.52	290.1	4270.78	2298.91	4246
2014/17020	55.21069	7863.28	12104.09	619.7	130.09	2009.7	1460.59	485.23	3586.8	203.88	3053.39	2198.97	3461
2014/17021	81.24189	199.96	202.6	14.02	2.72	53.81	31.98	13.97	72.14	5.07	71.28	42.66	72
2014/17022	48.79497	45458.08	61900.21	2081.16	179.28	5649.35	15197.5	479.08	45911.55	299.89	49690.37	8938.47	10400
2014/17023	46.64362	58310.57	92208.97	3212.26	186.53	7314.69	20722.19	492.23	69076.87	323.39	70367.94	13415.49	14290
2014/17024	46.46338	238727	157454.4	3512	274.56	11700.23	50933.81	591.56	93158.96	484.86	98625.72	19355.57	13430
2014/17025	81.19041	4862.14	4891.41	92.27	15.39	245.13	423.51	47.6	3115.93	22.91	765.73	220.02	811
2014/17026	45.1974	11009.77	13953.03	630.28	161.61	1834.06	822.94	606.07	2359.56	236.42	2237.92	1542.92	3617
2014/17027	55.69892	14645.85	18809.66	670.33	195.08	1868.06	893.18	700.76	2764.03	323.13	2621.87	1607.03	4094
2014/17028	58.93814	17478.16	20788.49	697.09	144.96	2065.14	1652.82	478.37	4842.23	235.97	3499.12	1935.71	4501
2014/17029	51.50005	59089.1	43116.22	1676.2	187.03	4051.64	12995.28	633.92	27539.07	320.74	23414.42	5274.1	8200
2014/17030	51.81569	82620.62	56803.54	1800.37	176.76	4591.56	19146.18	503.49	32012.65	302.16	37130.62	7742.56	8476
2014/17031	49.93056	12780.32	15786.74	664.81	181.91	1597.42	698.56	634.97	2456.96	259.66	2357.48	1362.9	3771
2014/17032	63.2645	19157.43	23935.34	599.6	163.77	1791.37	1136.62	548.14	3876.72	221.55	3605.32	1765.85	5148
2014/17033	47.41863	13125.47	16684.23	620.57	183.12	1987	987.96	655.39	2877.89	274.32	2689.82	1825.97	4133
2014/17034	43.72462	70802.78	46098.67	2257.42	276.13	6944.54	18709.66	915.25	31516.31	445.92	35674.28	9186.68	9993
2014/17035	39.24144	173622.9	115891.3	4348.61	538.29	12288.18	39975.78	1170.42	65542.61	782.51	84777.87	18197.7	15924
2014/17036	43.75572	72052.39	54741.46	2209.76	242.9	4940.84	15831.57	605.87	30432.54	427.17	37736.83	7449.06	9111
2014/17037	76.20991	12841.78	13383.57	274.61	45.28	948.58	1466.37	115.58	5067.94	54.41	3076.47	986.02	1823
2014/17038	43.87153	13267.93	17877.03	861.69	272.79	2740.84	961.22	1150.83	2732.62	444.09	2667.03	2200.86	4452
2014/17039	52.38133	22681.09	27619.62	889.08	160.75	2417.59	2490.84	559.89	6228.39	245.8	5114.31	2371.88	4768
2014/17040	45.5671	89145.49	79390.86	2699.83	290.79	6422.54	16780.68	763.55	36893.91	502.06	39707.11	10526.65	11985



PCB's Results:

RAW DATA PPB

LSN	Sample No.	Location	Excluded	TS (%)	mg/kg (ppb) Dry weight								
					CB#101	CB#105	CB#110	CB#118	CB#128	CB#138	CB#141	CB#149	CB#151
2014/17019					0.96	0.31	0.99	0.83	0.29	0.95	0.2	0.81	0.29
2014/17021					0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2014/17022					1.36	0.37	1.53	1.69	1.1	1.78	0.74	2.09	7.18
2014/17023					4.14	2.34	3.64	4.16	4.99	8.22	3.15	5.64	13.47
2014/17024					3.81	3.82	4.42	3.18	2.08	10.78	0.42	12.13	6.16
2014/17025					0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2014/17026					0.89	0.26	0.8	0.76	0.2	0.87	0.2	0.74	0.2
2014/17027					0.79	0.25	0.85	0.7	0.2	0.79	0.2	0.72	0.2
2014/17028					0.82	0.21	0.91	0.72	0.25	0.79	0.2	0.76	0.22
2014/17029					1.1	0.22	1.2	0.99	0.44	1.2	0.47	1.5	0.79
2014/17030					1.3	0.37	1.7	1.6	0.2	1.1	0.82	1.7	4.3
2014/17031					0.66	0.21	0.69	0.57	0.2	0.65	0.2	0.56	0.2
2014/17032					0.87	0.26	0.9	0.72	0.2	0.84	0.2	0.81	0.2
2014/17033					0.85	0.28	0.89	0.7	0.25	0.82	0.2	0.71	0.2
2014/17034					0.83	0.27	1.1	0.82	0.21	0.98	0.3	1.4	0.75
2014/17035					1.8	2.3	3.6	3.9	0.2	2.3	0.2	13	
2014/17036					9.3	2.5	18	0.2	14	0.2	3	4.8	27.53
2014/17037					1.8	0.51	1.8	1.4	0.26	1.2	0.24	1.1	0.2
2014/17038					0.82	0.3	0.9	0.66	0.55	0.76	0.2	0.68	0.2
2014/17039					0.88	0.24	1.19	0.68	0.2	0.86	0.45	0.81	0.29
2014/17040					6.35	0.91	2.12	3.31	5.75	14.06	1.04	9.18	10.67
2014/17041					4.57	1.5	4.66	3.31	3.82	12.85	0.63	9.95	6.81
2014/17042					0.67	0.21	0.69	0.57	0.2	0.64	0.2	0.55	0.2
2014/17043					0.75	0.2	0.7	0.59	0.2	0.76	0.29	0.74	0.2
Mean					1.90500	0.76000	2.23667	1.35250	1.50792	2.57083	0.66875	2.41583	3.90250

LSN	Sample No.	Location	Excluded	TS (%)	mg/kg (ppb) Dry weight								
					CB#153	CB#156	CB#158	CB#170	CB#18	CB#180	CB#183	CB#187	CB#194
2014/17019					0.96	0.26	0.2	0.2	0.48	0.54	0.2	0.36	0.2
2014/17021					0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2014/17022					0.2	0.5	1.85	0.38	23.58	0.78	1.19	0.2	0.28
2014/17023					3.99	1.67	2.94	0.24	101.15	1.02	2.83	0.21	0.22
2014/17024					10.09	0.2	0.37	0.57	5.61	1.56	1.58	0.95	0.53
2014/17025					0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2014/17026					0.91	0.2	0.2	0.2	0.27	0.51	0.2	0.34	0.2
2014/17027					0.82	0.2	0.2	0.2	0.35	0.47	0.2	0.31	0.2
2014/17028					0.77	0.2	0.2	0.2	0.73	0.44	0.2	0.29	0.2
2014/17029					0.97	0.77	0.31	0.35	3.4	0.64	0.42	0.46	0.21
2014/17030					0.2	0.39	2	0.2	33.12	0.2	1.5	0.2	0.2
2014/17031					0.62	0.2	0.2	0.2	0.24	0.34	0.2	0.25	0.2
2014/17032					0.89	0.2	0.2	0.2	0.65	0.53	0.2	0.36	0.2
2014/17033					0.87	0.2	0.2	0.2	0.49	0.53	0.2	0.34	0.2
2014/17034					0.84	0.69	0.2	0.41	1.4	0.67	0.29	0.46	0.2
2014/17035					0.64	0.26	2	0.2	66.99	0.2	3.6	0.2	0.2
2014/17036					5.3	1.4	9.5	0.2	303.73	2.7	17	2	0.2
2014/17037					1.2	0.2	0.2	0.2	1.5	0.56	0.2	0.41	0.2
2014/17038					0.71	0.2	0.2	0.2	0.32	0.43	0.2	0.28	0.28
2014/17039					0.84	0.21	0.2	0.23	0.95	0.58	0.2	0.38	0.2
2014/17040					8.58	0.6	1.36	0.65	46.16	1.98	2.08	1.07	0.49
2014/17041					8.19	0.31	0.4	0.62	6.06	1.69	1.76	1.05	0.51
2014/17042					0.64	0.2	0.2	0.2	0.24	0.4	0.2	0.32	0.24
2014/17043					0.84	0.2	0.2	0.24	0.3	0.65	0.2	0.46	0.2
Mean					2.06125	0.40250	0.98875	0.27875	24.92167	0.74250	1.46042	0.47083	0.24833

LSN	Sample No.	Location	Excluded	TS (%)	mg/kg (ppb) Dry weight								
					CB#28	CB#31	CB#44	CB#47	CB#49	CB#52	CB#66	TOT25CBS	TOTICES7
2014/17019					1.05	1.88	0.89	0.49	0.7	0.89	0.46	15.39	5.64
2014/17021					0.2	0.2	0.2	0.2	0.2	0.2	0.2	5	1.2
2014/17022					4.57	0.83	3.07	5.63	2.42	5.07	2.17	70.56	14.67
2014/17023					96.58	44.56	10.57	11.75	5.78	18.36	9.75	361.37	135.45
2014/17024					3.81	3.36	2.46	2.43	3.63	3.06	2.65	89.66	34.73
2014/17025					0.2	0.2	0.2	0.2	0.2	0.2	0.2	5	1.2
2014/17026					0.9	1.39	0.46	0.22	0.45	0.61	0.37	12.35	4.94
2014/17027					0.74	0.63	0.41	0.23	0.53	0.62	0.41	11.22	4.46
2014/17028					1.02	0.86	0.5	0.2	0.71	0.61	0.43	12.44	4.73
2014/17029					3.6	2.6	1.4	6.8	1.3	1.6	0.74	33.48	9.46
2014/17030					11	1.3	4.3	6.9	2.1	4.6	2.9	84.2	19.8
2014/17031					0.59	0.51	0.26	0.2	0.33	0.48	0.29	9.05	3.57
2014/17032					0.98	0.8	0.53	0.31	0.62	0.62	0.43	12.72	4.92
2014/17033					1	1.3	0.58	0.33	1.4	0.68	0.57	13.99	4.92
2014/17034					1.3	2	1.8	7.4	1.2	0.82	0.73	27.07	5.59
2014/17035					62.77	29.14	12	12	0.2	21.42	9.2	248.52	90.73
2014/17036					17.56	13	13	11	12	59.38	12	559.5	91.94
2014/17037					1.7	1.6	1.7	0.74	1.8	2.2	1.3	24.22	9.5
2014/17038					0.83	0.9	0.37	0.31	0.49	0.6	0.41	11.8	4.38
2014/17039					1.11	0.88	1.35	0.78	2.62	0.64	1.39	18.16	5.01
2014/17040					30.83	12.79	4.81	5.2	3.61	6.56	3.52	183.68	69.69
2014/17041					5.63	4.59	2.74	1.02	3.48	4.38	2.68	93.21	38.93
2014/17042					0.57	0.5	0.28	0.2	0.32	0.51	0.23	9.18	3.6
2014/17043					0.61	0.53	0.37	0.2	0.8	0.48	0.26	10.97	4.03
Mean					10.38125	5.26458	2.67708	3.11417	1.95375	5.60792	2.22042	80.11417	23.87875



**Organochlorines and BDE Results:**

**RAW DATA PPB**

					mg/kg (ppb) Dry weight							
LSN	Sample	Location	Excluded	TS (%)	AHCH	BHCH	GHCH	DIELDRIN	HCB	PPDE	PPDT	PPTDE
2014/17019					0.23		1.83	117.66		0.84	1.27	1.66
2014/17021					0.2		0.2	0.25		0.2	0.2	0.2
2014/17022					4.31		1.32	2.11		0.32	75.36	0.81
2014/17023					6.46		2.14	1.68		0.73	120.95	1.94
2014/17024					4.64		1.95	0.48		1.47	1.8	0.99
2014/17025					0.2		0.2	0.22		0.2	0.2	0.2
2014/17026					0.2		0.2	17.46		0.76	0.29	1.27
2014/17027					0.2		0.2	0.66		0.8	0.2	1.09
2014/17028					0.2		0.2	0.62		0.71	0.2	0.84
2014/17029					14.11		0.2	1.93		1.07	86.58	1.3
2014/17030					13.84		0.6	2.49		0.32	104.47	2.1
2014/17031					0.2		0.2	2.67		0.68	0.26	1.29
2014/17032					2.12		0.2	0.63		0.75	0.38	1.03
2014/17033					0.24		0.44	30.4		0.8	0.45	1.39
2014/17034					0.2		1.87	0.74		0.92	74.71	0.53
2014/17035					6.33		1.29	5.22		0.55	5.59	18.61
2014/17036					0.83		0.33	0.69		4.28	4.03	2.58
2014/17037					0.2		0.2	1.06		0.63	0.2	0.2
2014/17038					0.45		0.2	1.51		0.92	0.24	0.3
2014/17039					0.67		0.47	0.52	6.28	0.87	0.7	0.49
2014/17040					0.74		0.36	0.32	41.54	0.63	1.07	1.37
2014/17041					2.2		0.89	1.57	174.03	2.68	61.11	0.62
2014/17042					0.2		0.2	0.88	1.15	0.67	0.21	1.2
2014/17043					0.2		0.2	0.56	1.02	0.76	0.2	1.28
<b>Mean</b>					2.46542	#DIV/0!	0.66208	8.01375	44.80400	0.94000	22.52792	1.80375

					mg/kg (ppb) Dry weight							
LSN	Sample	Location	Excluded	TS (%)	BDE100	BDE138	BDE 153	BDE 154	BDE 17	BDE 183	BDE 28	BDE 47
2014/17019												
2014/17021												
2014/17022												
2014/17023												
2014/17024												
2014/17025												
2014/17026												
2014/17027												
2014/17028												
2014/17029												
2014/17030												
2014/17031												
2014/17032												
2014/17033												
2014/17034												
2014/17035												
2014/17036												
2014/17037												
2014/17038												
2014/17039												
2014/17040												
2014/17041												
2014/17042												
2014/17043												
<b>Mean</b>					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

					mg/kg (ppb) Dry weight			
LSN	Sample	Location	Excluded	TS (%)	BDE66	BDE 85	BDE 99	BDE 102
2014/17019								
2014/17021								
2014/17022								
2014/17023								
2014/17024								
2014/17025								
2014/17026								
2014/17027								
2014/17028								
2014/17029								
2014/17030								
2014/17031								
2014/17032								
2014/17033								
2014/17034								
2014/17035								
2014/17036								
2014/17037								
2014/17038								
2014/17039								
2014/17040								
2014/17041								
2014/17042								
2014/17043								
<b>Mean</b>					#DIV/0!	#DIV/0!	#DIV/0!	





**Metals and Tin Results**

Application no: DCO/2014/00002

Applicant: Furgro Emu Ltd

Application Title: York Potash

Date Sampled: 04/08/2014



mg/kg (ppm)  
Dry weight

LSN	Sample No.	Location	Dredge Area no.	Excluded	TS%	AS	CD	CR	CU	HG	NI	PB	ZN	DBT	TBT
2014/17019	1+5	VC03A+4, 0m	Area i		45.55	26.88	0.76	58.39	92.43	0.9	33.81	136.9	249.91	0.021	<LOD
2014/17020	2+6	VC03A+4, 1m	Area i		55.211	20.82	0.83	75.65	230.72	2.19	33	121.66	246.23	0.050	0.038
2014/17021	4	VC03A, 1.79m	Area i		81.242	4.43	0.03	60.51	20.06	0.03	53.72	9.25	87.11	<LOD	<LOD
2014/17022	7	VC4, 2m	Area i		48.795	16.34	2.46	322.11	1503.7	13.19	54.74	127.64	518.6	0.056	0.082
2014/17023	8	VC4, 3m	Area i		46.644	16.12	3.01	456.54	1795.9	29.11	52.93	131.32	635.74	0.108	0.074
2014/17024	9	VC4, 4m	Area i		46.463	26.04	2.75	462.9	3070.7	41.78	34.94	140.09	540.49	0.012	0.036
2014/17025	10	VC4, 4.53m	Area i		81.19	6.08	0.07	19.47	13.14	0.16	16.73	21.04	51.81	<LOD	<LOD
2014/17026	11+28	VC6+VC5, 0m	Area i		45.197	29.69	0.6	57.61	64.05	0.62	33.11	133.03	240.6	0.014	<LOD
2014/17027	12	VC6, 1m	Area i		55.699	29.91	0.48	59.06	68.41	0.59	33.73	111.42	204.74	0.046	0.025
2014/17028	13	VC6, 2m	Area i		58.938	27.32	0.86	82.44	167.9	1.13	38.2	124.65	278.65	0.017	0.026
2014/17029	14	VC6, 3m	Area i		51.5	13.56	2.13	288.87	1077.1	2.63	67.01	136.29	550.03	0.047	0.066
2014/17030	15	VC6, 4.53m	Area i		51.816	19.2	2.56	352.1	1424.2	4.78	65.01	156.1	615.12	0.121	0.076
2014/17031	20	VC02A, 0m	Area ii		49.931	36.73	0.5	51.85	57.48	0.54	32.63	129.39	207.21	0.009	0.008
2014/17032	21	VC02A, 0.86m	Area ii		63.265	27.56	0.59	63.12	99.43	0.73	32.74	121.41	202.54	0.012	0.016
2014/17033	22+36	VC08A+VC7, 0m	Area ii		47.419	30.83	0.89	61.12	99.92	0.89	33.18	140.78	281.29	0.027	0.010
2014/17034	23+37	VC08A+VC7, 1m	Area ii		43.725	13.71	2.25	268.59	1007.7	1.11	55.96	132.68	505.46	0.039	0.083
2014/17035	24	VC08A, 2m	Area ii		39.241	34.86	7.33	601.39	1531.4	45.03	34.31	211.42	873.74	0.156	0.082
2014/17036	25+39	VC08A+VC7, 3m	Area ii		43.756	36.42	3.59	516.02	2570.9	22.79	38.42	178.23	717.78	0.071	0.129
2014/17037	26	VC08A, 4m	Area ii		76.21	14.19	1.64	38.26	895.43	4.93	13.37	53.38	141.58	<LOD	<LOD
2014/17038	29	VC5, 1m	Area ii		43.872	31.07	0.88	65.3	107.98	0.91	40.13	155.56	343.68	0.072	0.023
2014/17039	30	VC5, 2m	Area ii		52.381	16.15	1.3	91.22	250.82	0.69	47.32	134.23	368.99	0.007	0.042
2014/17040	31	VC5, 3m	Area ii		45.567	38.24	5.34	488.34	1111.9	45.34	39.07	309.68	1066.4	0.114	0.024
2014/17041	32	VC5, 3.48m	Area ii		41.637	63.46	5.26	624.7	2062.9	59.23	35.35	265.9	1065.5	0.089	0.054
2014/17042	33	VC01A, 0m	Area ii		51.542	35.94	0.32	39.49	46.55	0.59	26.93	116.9	165.91	<LOD	0.007
2014/17043	34	VC01A, 1m	Area ii		55.136	38.69	0.48	57.03	60.08	0.58	34.55	159.67	220.28	0.008	0.017
		Mean			52.88	26.17	1.88	210.48	777.24	11.22	39.24	138.34	415.17	0.052	0.046

AL1 (ppm dry)	20	0.4	40	40	0.3	20	50	130	0.1	0.1
AL2 (ppm dry)	100	5.0	400	400	3.00	200	500	800	1	1

Limits of Detection					0.15	0.05	0.15	0.06	0.03	0.15	0.08	0.15	0.002	0.002
---------------------	--	--	--	--	------	------	------	------	------	------	------	------	-------	-------

Produced by: JL(tins) JL (metals)  
Date: 22/08/2014

28/08/2014





**Polycyclic Aromatic Hydrocarbon Results for Defra**

Application no. DCO/2014/00002  
 Applicant: Furgro Emu Ltd  
 Application Title: York Potash  
 Date Sampled: 04/08/2014



LSN	Sample No.	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm) Dry weight												
						23BA	ACENAPH	ACENAPT	ANTHRAC	BAA	BAP	BBF	BENZGHI	BEP	BKF	C1N	C1PHEN	
2014/17019	1+5	VC03A+4, 0m	Area i		46		0.214	0.815	0.548	0.975	0.889	1.338	0.809	0.967	0.510	11.135	5.403	
2014/17020	2+6	VC03A+4, 1m	Area i		55		0.274	0.562	0.584	0.888	0.701	0.914	0.490	0.549	0.345	8.567	3.962	
2014/17021	4	VC03A, 1.79m	Area i		81		0.007	0.014	0.014	0.021	0.017	0.025	0.012	0.013	0.009	0.169	0.124	
2014/17022	7	VC4, 2m	Area i		49		2.587	11.954	3.859	2.781	1.177	1.331	0.511	0.803	0.445	125.348	20.183	
2014/17023	8	VC4, 3m	Area i		47		4.046	18.871	5.703	3.712	1.480	1.228	0.454	0.901	0.456	231.193	26.558	
2014/17024	9	VC4, 4m	Area i		46		5.661	24.129	7.784	4.879	2.108	1.921	0.743	1.483	0.574	327.377	29.317	
2014/17025	10	VC4, 4.53m	Area i		81		0.036	0.211	0.077	0.117	0.082	0.080	0.083	0.088	0.036	5.552	1.322	
2014/17026	11+28	VC6+VC5, 0m	Area i		45		0.091	0.366	0.335	0.805	0.791	0.968	0.707	0.715	0.464	7.166	4.121	
2014/17027	12	VC6, 1m	Area i		56		0.079	0.396	0.371	0.926	0.950	1.254	0.806	0.834	0.520	9.461	4.513	
2014/17028	13	VC6, 2m	Area i		59		0.170	0.893	0.534	0.968	0.750	0.970	0.578	0.641	0.387	13.020	5.084	
2014/17029	14	VC6, 3m	Area i		52		1.564	7.284	2.339	2.171	1.163	1.295	0.667	0.775	0.509	77.227	13.384	
2014/17030	15	VC6, 4.53m	Area i		52		2.088	12.302	3.302	2.520	1.240	1.168	0.538	0.785	0.506	101.795	15.954	
2014/17031	20	VC02A, 0m	Area ii		50		0.053	0.326	0.305	0.904	0.909	1.233	0.738	0.803	0.493	8.853	4.044	
2014/17032	21	VC02A, 0.86m	Area ii		63		0.095	0.510	0.437	0.943	0.824	0.928	0.736	0.744	0.410	12.486	4.800	
2014/17033	22+36	VC08A+VC7, 0m	Area ii		47		0.124	0.456	0.403	0.937	0.901	1.135	0.760	0.812	0.493	9.459	4.440	
2014/17034	23+37	VC08A+VC7, 1m	Area ii		44		2.160	11.032	3.537	3.185	1.887	1.870	0.890	1.095	0.756	93.965	18.565	
2014/17035	24	VC08A, 2m	Area ii		39		3.501	20.987	7.676	5.953	3.346	3.406	1.476	2.486	1.046	271.461	30.923	
2014/17036	25+39	VC08A+VC7, 3m	Area ii		44		1.980	8.522	3.669	2.813	1.557	1.809	0.907	1.369	0.584	82.593	18.718	
2014/17037	26	VC08A, 4m	Area ii		76		0.190	0.739	0.367	0.365	0.240	0.272	0.211	0.255	0.109	9.774	3.679	
2014/17038	29	VC5, 1m	Area ii		44		0.112	0.427	0.502	1.196	1.364	1.816	1.119	1.104	0.760	9.161	4.534	
2014/17039	30	VC5, 2m	Area ii		52		0.292	1.362	0.735	1.153	0.872	1.137	0.662	0.715	0.451	17.568	6.511	
2014/17040	31	VC5, 3m	Area ii		46		1.769	6.682	3.696	3.314	1.861	2.140	1.050	1.643	0.725	105.639	19.509	
<b>Mean</b>						#DIV/0!	1.231	5.856	2.126	1.888	1.141	1.284	0.679	0.890	0.481	69.953	11.166	
<b>AL1 (ppm dry)</b>							0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

LSN	Sample No.	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm) Dry weight												
						C2N	C3N	CHRYSEN	DBENZAH	FLUORAN	FLUOREN	INDPYR	NAPTH	PERYLEN	PHENANTH	PYRENE	THC	
2014/17019	1+5	VC03A+4, 0m	Area i		46	10.279	15.351	0.728	0.195	2.365	1.766	0.685	4.347	0.290	4.271	2.299	4246	
2014/17020	2+6	VC03A+4, 1m	Area i		55	7.863	12.104	0.620	0.130	2.010	1.461	0.485	3.587	0.204	3.053	2.199	3461	
2014/17021	4	VC03A, 1.79m	Area i		81	0.200	0.203	0.014	0.003	0.054	0.032	0.014	0.072	0.005	0.071	0.043	72	
2014/17022	7	VC4, 2m	Area i		49	45.458	61.900	2.081	0.179	5.649	15.198	0.479	45.912	0.300	49.690	8.938	10400	
2014/17023	8	VC4, 3m	Area i		47	58.311	92.209	3.212	0.187	7.315	20.722	0.492	69.077	0.323	70.368	13.415	14290	
2014/17024	9	VC4, 4m	Area i		46	238.727	157.454	3.512	0.275	11.700	50.934	0.592	93.159	0.485	98.626	19.356	13430	
2014/17025	10	VC4, 4.53m	Area i		81	4.862	4.891	0.092	0.015	0.245	0.424	0.048	3.116	0.023	0.766	0.220	811	
2014/17026	11+28	VC6+VC5, 0m	Area i		45	11.010	13.953	0.630	0.162	1.834	0.823	0.606	2.360	0.236	2.238	1.543	3617	
2014/17027	12	VC6, 1m	Area i		56	14.646	18.810	0.670	0.195	1.868	0.893	0.701	2.764	0.323	2.622	1.607	4094	
2014/17028	13	VC6, 2m	Area i		59	17.478	20.788	0.697	0.145	2.065	1.653	0.478	4.842	0.236	3.499	1.936	4501	
2014/17029	14	VC6, 3m	Area i		52	59.089	43.116	1.676	0.187	4.052	12.995	0.634	27.539	0.321	23.414	5.274	8200	
2014/17030	15	VC6, 4.53m	Area i		52	82.621	56.804	1.800	0.177	4.592	19.146	0.503	32.013	0.302	37.131	7.743	8476	
2014/17031	20	VC02A, 0m	Area ii		50	12.780	15.787	0.665	0.182	1.597	0.699	0.635	2.457	0.260	2.357	1.363	3771	
2014/17032	21	VC02A, 0.86m	Area ii		63	19.157	23.935	0.600	0.164	1.791	1.137	0.548	3.877	0.222	3.605	1.766	5148	
2014/17033	22+36	VC08A+VC7, 0m	Area ii		47	13.125	16.684	0.621	0.183	1.987	0.988	0.655	2.878	0.274	2.690	1.826	4133	
2014/17034	23+37	VC08A+VC7, 1m	Area ii		44	70.803	46.099	2.257	0.276	6.945	18.710	0.915	31.516	0.446	35.674	9.187	9993	
2014/17035	24	VC08A, 2m	Area ii		39	173.623	115.891	4.349	0.538	12.288	39.976	1.170	65.543	0.783	84.778	18.198	15924	
2014/17036	25+39	VC08A+VC7, 3m	Area ii		44	72.052	54.741	2.210	0.243	4.941	15.832	0.606	30.433	0.427	37.377	7.449	9111	
2014/17037	26	VC08A, 4m	Area ii		76	12.842	13.384	0.275	0.045	0.949	1.466	0.116	5.068	0.054	3.076	0.986	1823	
2014/17038	29	VC5, 1m	Area ii		44	13.268	17.877	0.862	0.273	2.741	0.961	1.151	2.733	0.444	2.667	2.201	4452	
2014/17039	30	VC5, 2m	Area ii		52	22.681	27.620	0.889	0.161	2.418	2.491	0.560	6.228	0.246	5.114	2.372	4768	
2014/17040	31	VC5, 3m	Area ii		46	89.145	79.391	2.700	0.291	6.423	16.781	0.764	36.894	0.502	39.707	10.527	11985	
<b>Mean</b>						47.728	41.318	1.416	0.191	3.901	10.231	0.584	21.655	0.305	23.325	5.475	6668	
<b>AL1 (ppm dry)</b>						0.1	0.1	0.1	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	100	

Produced by:  
Date:





**PCB's Results for Defra**

Application no. DCO/2014/00002  
 Applicant: Furgro Emu Ltd  
 Application Title: York Potash  
 Date Sampled: 04/08/2014



LOD= 0.0002ppm

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm) Dry weight									
						CB#101	CB#105	CB#110	CB#118	CB#128	CB#138	CB#141	CB#149	CB#151	
2014/17019	1+5	VC03A+4, 0m	Area i		45.55	0.00096	0.00031	0.00099	0.00083	0.00029	0.00095	0.0002	0.00081	0.00029	
2014/17021	4	VC03A, 1.79m	Area i		81.24	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	
2014/17022	7	VC4, 2m	Area i		48.79	0.00136	0.00037	0.00153	0.00169	0.0011	0.00178	0.00074	0.00209	0.00718	
2014/17023	8	VC4, 3m	Area i		46.64	0.00414	0.00234	0.00364	0.00416	0.00499	0.00822	0.00315	0.00564	0.01347	
2014/17024	9	VC4, 4m	Area i		46.46	0.00381	0.00382	0.00442	0.00318	0.00208	0.01078	0.00042	0.01213	0.00616	
2014/17025	10	VC4, 4.53m	Area i		81.19	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	
2014/17026	11+28	VC6+VC5, 0m	Area i		45.20	0.00089	0.00026	0.0008	0.00076	0.0002	0.00087	0.0002	0.00074	0.0002	
2014/17027	12	VC6, 1m	Area i		55.70	0.00079	0.00025	0.00085	0.0007	0.0002	0.00079	0.0002	0.00072	0.0002	
2014/17028	13	VC6, 2m	Area i		58.94	0.00082	0.00021	0.00091	0.00072	0.00025	0.00079	0.0002	0.00076	0.00022	
2014/17029	14	VC6, 3m	Area i		51.50	0.0011	0.00022	0.0012	0.00099	0.00044	0.0012	0.00047	0.0015	0.00079	
2014/17030	15	VC6, 4.53m	Area i		51.82	0.0013	0.00037	0.0017	0.0016	0.0002	0.0011	0.00082	0.0017	0.0043	
2014/17031	20	VC02A, 0m	Area ii		49.93	0.00066	0.00021	0.00069	0.00057	0.0002	0.00065	0.0002	0.00056	0.0002	
2014/17032	21	VC02A, 0.86m	Area ii		63.26	0.00087	0.00026	0.0009	0.00072	0.0002	0.00084	0.0002	0.00081	0.0002	
2014/17033	22+36	VC08A+VC7, 1m	Area ii		47.42	0.00085	0.00028	0.00089	0.0007	0.00025	0.00082	0.0002	0.00071	0.0002	
2014/17034	23+37	VC08A+VC7, 1m	Area ii		43.72	0.00083	0.00027	0.0011	0.00082	0.00021	0.00098	0.0003	0.0014	0.00075	
2014/17035	24	VC08A, 2m	Area ii		39.24	0.0018	0.0023	0.0036	0.0039	0.0002	0.0002	0.0023	0.0002	0.013	
2014/17036	25+39	VC08A+VC7, 3m	Area ii		43.76	0.0093	0.0025	0.018	0.0002	0.014	0.0002	0.003	0.0048	0.02753	
2014/17037	26	VC08A, 4m	Area ii		76.21	0.0018	0.00051	0.0018	0.0014	0.00026	0.0012	0.00024	0.0011	0.0002	
2014/17038	29	VC5, 1m	Area ii		43.87	0.00082	0.0003	0.0009	0.00066	0.00055	0.00076	0.0002	0.00068	0.0002	
2014/17039	30	VC5, 2m	Area ii		52.38	0.00088	0.00024	0.00119	0.00068	0.0002	0.00086	0.00045	0.00081	0.00029	
2014/17040	31	VC5, 3m	Area ii		45.57	0.00635	0.00091	0.00212	0.00331	0.00575	0.01406	0.00104	0.00918	0.01067	
2014/17041	32	VC5, 3.48m	Area ii		41.64	0.00457	0.0015	0.00466	0.00331	0.00382	0.01285	0.00063	0.00995	0.00681	
2014/17042	33	VC01A, 0m	Area ii		51.54	0.00067	0.00021	0.00069	0.00057	0.0002	0.00064	0.0002	0.00055	0.0002	
2014/17043	34	VC01A, 1m	Area ii		55.14	0.00075	0.0002	0.0007	0.00059	0.0002	0.00076	0.00029	0.00074	0.0002	
Mean						0.00191	0.00076	0.00224	0.00135	0.00151	0.00257	0.00067	0.00242	0.00390	

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm) Dry weight									
						CB#153	CB#156	CB#158	CB#170	CB#18	CB#180	CB#183	CB#187	CB#194	
2014/17019	1+5	VC03A+4, 0m	Area i		45.55	0.00096	0.00026	0.0002	0.0002	0.00048	0.0002	0.0002	0.00036	0.0002	
2014/17021	4	VC03A, 1.79m	Area i		81.24	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	
2014/17022	7	VC4, 2m	Area i		48.79	0.0002	0.0005	0.00185	0.00038	0.02358	0.00078	0.00119	0.0002	0.00028	
2014/17023	8	VC4, 3m	Area i		46.64	0.00399	0.00167	0.00294	0.00024	0.1115	0.00102	0.00283	0.00021	0.00022	
2014/17024	9	VC4, 4m	Area i		46.46	0.01009	0.0002	0.00037	0.00057	0.00561	0.00156	0.00158	0.00095	0.00053	
2014/17025	10	VC4, 4.53m	Area i		81.19	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	
2014/17026	11+28	VC6+VC5, 0m	Area i		45.20	0.00091	0.0002	0.0002	0.0002	0.00027	0.00051	0.0002	0.00034	0.0002	
2014/17027	12	VC6, 1m	Area i		55.70	0.00082	0.0002	0.0002	0.0002	0.00035	0.00047	0.0002	0.00031	0.0002	
2014/17028	13	VC6, 2m	Area i		58.94	0.00077	0.0002	0.0002	0.0002	0.00073	0.00044	0.0002	0.00029	0.0002	
2014/17029	14	VC6, 3m	Area i		51.50	0.00097	0.00077	0.00031	0.00035	0.0034	0.00064	0.00042	0.00046	0.00021	
2014/17030	15	VC6, 4.53m	Area i		51.82	0.0002	0.00039	0.002	0.0002	0.03312	0.0002	0.0015	0.0002	0.0002	
2014/17031	20	VC02A, 0m	Area ii		49.93	0.00062	0.0002	0.0002	0.0002	0.00024	0.00034	0.0002	0.00025	0.0002	
2014/17032	21	VC02A, 0.86m	Area ii		63.26	0.00089	0.0002	0.0002	0.0002	0.00065	0.00053	0.0002	0.00036	0.0002	
2014/17033	22+36	VC08A+VC7, 1m	Area ii		47.42	0.00087	0.0002	0.0002	0.0002	0.00049	0.00053	0.0002	0.00034	0.0002	
2014/17034	23+37	VC08A+VC7, 1m	Area ii		43.72	0.00084	0.00069	0.0002	0.00041	0.0014	0.00067	0.00029	0.00046	0.0002	
2014/17035	24	VC08A, 2m	Area ii		39.24	0.00064	0.00026	0.002	0.0002	0.06699	0.0002	0.00036	0.0002	0.0002	
2014/17036	25+39	VC08A+VC7, 3m	Area ii		43.76	0.0053	0.0014	0.0095	0.0002	0.30373	0.0027	0.017	0.002	0.0002	
2014/17037	26	VC08A, 4m	Area ii		76.21	0.0012	0.0002	0.0002	0.0002	0.0015	0.00056	0.0002	0.00041	0.0002	
2014/17038	29	VC5, 1m	Area ii		43.87	0.00071	0.0002	0.0002	0.0002	0.00032	0.00043	0.0002	0.00028	0.00028	
2014/17039	30	VC5, 2m	Area ii		52.38	0.00084	0.00021	0.0002	0.00023	0.00095	0.00058	0.0002	0.00038	0.0002	
2014/17040	31	VC5, 3m	Area ii		45.57	0.00858	0.0006	0.00136	0.00065	0.04616	0.00198	0.00208	0.0107	0.00049	
2014/17041	32	VC5, 3.48m	Area ii		41.64	0.00819	0.00031	0.0004	0.00062	0.00606	0.00169	0.00176	0.01015	0.00051	
2014/17042	33	VC01A, 0m	Area ii		51.54	0.00064	0.0002	0.0002	0.0002	0.00024	0.0004	0.0002	0.00032	0.00024	
2014/17043	34	VC01A, 1m	Area ii		55.14	0.00084	0.0002	0.0002	0.00024	0.0003	0.00065	0.0002	0.00046	0.0002	
Mean						0.00206	0.00040	0.00099	0.00028	0.02492	0.00074	0.00146	0.00047	0.00025	

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm) Dry weight									
						CB#28	CB#31	CB#44	CB#47	CB#49	CB#52	CB#66	TOT25CBS	TOTICES7	
2014/17019	1+5	VC03A+4, 0m	Area i		45.55	0.00105	0.00188	0.00089	0.00049	0.0007	0.00089	0.00046	0.01539	0.00564	
2014/17021	4	VC03A, 1.79m	Area i		81.24	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.005	0.0012	
2014/17022	7	VC4, 2m	Area i		48.79	0.00457	0.00083	0.00307	0.00563	0.00242	0.00507	0.00217	0.07056	0.01467	
2014/17023	8	VC4, 3m	Area i		46.64	0.00658	0.00456	0.01057	0.01175	0.00578	0.01836	0.00975	0.36137	0.13545	
2014/17024	9	VC4, 4m	Area i		46.46	0.00381	0.00336	0.00246	0.00243	0.00363	0.00306	0.00265	0.08966	0.03473	
2014/17025	10	VC4, 4.53m	Area i		81.19	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.005	0.0012	
2014/17026	11+28	VC6+VC5, 0m	Area i		45.20	0.0009	0.00139	0.00046	0.00022	0.00045	0.00061	0.00037	0.01235	0.00484	
2014/17027	12	VC6, 1m	Area i		55.70	0.00074	0.00063	0.00041	0.00023	0.00053	0.00062	0.00041	0.01122	0.00446	
2014/17028	13	VC6, 2m	Area i		58.94	0.00102	0.00096	0.0005	0.0002	0.00071	0.00061	0.00043	0.01244	0.00473	
2014/17029	14	VC6, 3m	Area i		51.50	0.00036	0.00027	0.0014	0.00068	0.0013	0.00074	0.00348	0.00946		
2014/17030	15	VC6, 4.53m	Area i		51.82	0.011	0.0013	0.0043	0.0069	0.0021	0.0046	0.0029	0.0842	0.0198	
2014/17031	20	VC02A, 0m	Area ii		49.93	0.00059	0.00051	0.00026	0.0002	0.00033	0.00048	0.00029	0.00905	0.00357	
2014/17032	21	VC02A, 0.86m	Area ii		63.26	0.00098	0.0008	0.00053	0.00031	0.00062	0.00062	0.00043	0.01272	0.00492	
2014/17033	22+36	VC08A+VC7, 1m	Area ii		47.42	0.001	0.0013	0.00058	0.00033	0.0014	0.00068	0.00057	0.01399	0.00492	
2014/17034	23+37	VC08A+VC7, 1m	Area ii		43.72	0.0013	0.002	0.0018	0.0074	0.0012	0.00082	0.00073	0.02707	0.00559	
2014/17035	24	VC08A, 2m	Area ii		39.24	0.06277	0.02914	0.012	0.012	0.0002	0.02142	0.0092	0.24852	0.09073	
2014/17036	25+39	VC08A+VC7, 3m	Area ii		43.76	0.01756	0.013	0.013	0.011	0.012	0.05938	0.012	0.5595	0.09194	
2014/17037	26	VC08A, 4m	Area ii		76.21	0.0017	0.0016	0.0017	0.00074	0.0018	0.0022	0.0013	0.02422	0.0095	
2014/17038	29	VC5, 1m	Area ii		43.87	0.00083	0.0009	0.00037	0.00031	0.00049	0.0006	0.00041	0.0118	0.00438	
2014/17039	30	VC5, 2m	Area ii		52.38	0.00111	0.00088	0.00135	0.0007						



LOD= 0.0002ppm

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm)									
						CB#101	CB#105	CB#110	CB#118	CB#128	CB#138	CB#141	CB#149	CB#151	
2014/17044	35	VC01A, 1.6m	Area ii		59.85	0.00081	0.00025	0.00085	0.00067	0.0002	0.00081	0.0002	0.00074	0.0002	
2014/17045	38	VC7, 2m	Area ii		45.50	0.0051	0.00325	0.0021	0.00173	0.00196	0.00213	0.00096	0.00191	0.0011	
2014/17046	40	VC7, 4m	Area ii		38.64	0.04702	0.00338	0.02233	0.01368	0.01456	0.01335	0.01204	0.00592	0.01136	
2014/17047	41	VC7, 4.86m	Area ii		48.16	0.0309	0.00065	0.00033	0.00205	0.00092	0.0044	0.00062	0.00568	0.00364	
2014/17048	42	VC05A, 3.78m	Area ii		51.57	0.00426	0.00146	0.00449	0.00319	0.00232	0.00794	0.00053	0.00628	0.00771	
Mean						0.01114	0.00120	0.00602	0.00426	0.00381	0.00573	0.00287	0.00411	0.00492	

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm)									
						CB#153	CB#156	CB#158	CB#170	CB#18	CB#180	CB#183	CB#187	CB#194	
2014/17044	35	VC01A, 1.6m	Area ii		59.85	0.00082	0.0002	0.0002	0.00022	0.00032	0.00054	0.0002	0.00035	0.0002	
2014/17045	38	VC7, 2m	Area ii		45.50	0.00224	0.00064	0.00031	0.00054	0.01809	0.00155	0.00127	0.00093	0.00044	
2014/17046	40	VC7, 4m	Area ii		38.64	0.00992	0.00224	0.00998	0.00096	0.44224	0.0043	0.00286	0.00151	0.00079	
2014/17047	41	VC7, 4.86m	Area ii		48.16	0.00507	0.0003	0.00039	0.00044	0.00673	0.0013	0.00065	0.00077	0.00037	
2014/17048	42	VC05A, 3.78m	Area ii		51.57	0.00577	0.00021	0.00026	0.00064	0.00432	0.00171	0.00111	0.00103	0.00047	
Mean						0.00476	0.00072	0.00223	0.00056	0.09434	0.00188	0.00122	0.00092	0.00045	

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm)									
						CB#28	CB#31	CB#44	CB#47	CB#49	CB#52	CB#66	TOT25CBS	TOTICES7	
2014/17044	35	VC01A, 1.6m	Area ii		59.85	0.00077	0.00065	0.00041	0.0002	0.00052	0.00057	0.00031	0.01121	0.00445	
2014/17045	38	VC7, 2m	Area ii		45.50	0.00262	0.00686	0.00242	0.00217	0.00286	0.00262	0.00116	0.05849	0.01185	
2014/17046	40	VC7, 4m	Area ii		38.64	0.47046	0.20771	0.05565	0.02928	0.05497	0.09011	0.01125	1.53847	0.64454	
2014/17047	41	VC7, 4.86m	Area ii		48.16	0.00716	0.00448	0.00238	0.00129	0.00235	0.00346	0.00169	0.06021	0.02523	
2014/17048	42	VC05A, 3.78m	Area ii		51.57	0.00538	0.00524	0.00353	0.00352	0.00284	0.00431	0.00343	0.08195	0.03085	
Mean						0.09728	0.04499	0.01288	0.00729	0.01271	0.02021	0.00357	0.35007	0.14388	

AL1 (ppm dry) 0.02 0.01  
 AL2 (ppm dry) 0.2

Produced by: JL  
 Date: 01/10/2014



**Organochlorines and BDE Results for Defra**

Application no. DCO/2014/00002  
 Applicant: Furgro Emu Ltd  
 Application Title: York Potash  
 Date Sampled: 04/08/2014



LOD= 0.0002ppm

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm)							Dry weight		
						AHCH	BHCH	GHCH	DIELDRIN	HCB	PPDDE	PPDDT	PPTDE		
2014/17019	1+5	VC03A+4, 0m	Area i		45.55	0.00023			0.00183	0.11766		0.00084	0.00127	0.00166	
2014/17021	4	VC03A, 1.79m	Area i		81.24	0.0002			0.0002	0.00025		0.0002	0.0002	0.0002	
2014/17022	7	VC4, 2m	Area i		48.79	0.00431			0.00132	0.00211		0.00032	0.07536	0.00081	
2014/17023	8	VC4, 3m	Area i		46.64	0.00648			0.00214	0.00168		0.00073	0.12095	0.00194	
2014/17024	9	VC4, 4m	Area i		46.46	0.00464			0.00195	0.00048		0.00147	0.0018	0.00099	
2014/17025	10	VC4, 4.53m	Area i		81.19	0.0002			0.0002	0.00022		0.0002	0.0002	0.0002	
2014/17026	11+28	VC6+VC5, 0m	Area i		45.20	0.0002			0.0002	0.01746		0.00076	0.00029	0.00127	
2014/17027	12	VC6, 1m	Area i		55.70	0.0002			0.0002	0.00066		0.0008	0.0002	0.00109	
2014/17028	13	VC6, 2m	Area i		58.94	0.0002			0.0002	0.00062		0.00071	0.0002	0.00084	
2014/17029	14	VC6, 3m	Area i		51.50	0.01411			0.0002	0.00193		0.00107	0.08658	0.0013	
2014/17030	15	VC6, 4.53m	Area i		51.82	0.01384			0.0006	0.00249		0.00032	0.10447	0.0021	
2014/17031	20	VC02A, 0m	Area ii		49.93	0.0002			0.0002	0.00267		0.00068	0.00026	0.00129	
2014/17032	21	VC02A, 0.86m	Area ii		63.26	0.00212			0.0002	0.00063		0.00075	0.00038	0.00103	
2014/17033	22+36	VC08A+VC7, 0m	Area ii		47.42	0.00024			0.00044	0.0304		0.0008	0.00045	0.00139	
2014/17034	23+37	VC08A+VC7, 1m	Area ii		43.72	0.0002			0.00187	0.00074		0.00092	0.07471	0.00053	
2014/17035	24	VC08A, 2m	Area ii		39.24	0.00533			0.00129	0.00522		0.00055	0.00559	0.01861	
2014/17036	25+39	VC08A+VC7, 3m	Area ii		43.76	0.00083			0.00033	0.00069		0.00428	0.00403	0.00258	
2014/17037	26	VC08A, 4m	Area ii		76.21	0.0002			0.0002	0.00106		0.00063	0.0002	0.0002	
2014/17038	29	VC5, 1m	Area ii		43.87	0.00045			0.0002	0.00151		0.00092	0.00024	0.0003	
2014/17039	30	VC5, 2m	Area ii		52.38	0.00067			0.00047	0.00052	0.00628	0.00087	0.0007	0.00049	
2014/17040	31	VC5, 3m	Area ii		45.57	0.00074			0.00036	0.00032	0.04154	0.00063	0.00107	0.00137	
2014/17041	32	VC5, 3.48m	Area ii		41.64	0.0022			0.00089	0.00157	0.17403	0.00268	0.06111	0.00062	
2014/17042	33	VC01A, 0m	Area ii		51.54	0.0002			0.0002	0.00088	0.00115	0.00067	0.00021	0.0012	
2014/17043	34	VC01A, 1m	Area ii		55.14	0.0002			0.0002	0.00056	0.00102	0.00076	0.0002	0.00128	
Mean						0.00247	#DIV/0!	0.00066	0.00801	0.04480	0.00094	0.02253	0.00180		
AL1 (ppm dry)						0.005							0.001		

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm)								
						BDE 100	BDE 138	BDE 153	BDE 154	BDE 17	BDE 183	BDE 28	BDE 47	
2014/17019	1+5	VC03A+4, 0m	Area i		45.55									
2014/17021	4	VC03A, 1.79m	Area i		81.24									
2014/17022	7	VC4, 2m	Area i		48.79									
2014/17023	8	VC4, 3m	Area i		46.64									
2014/17024	9	VC4, 4m	Area i		46.46									
2014/17025	10	VC4, 4.53m	Area i		81.19									
2014/17026	11+28	VC6+VC5, 0m	Area i		45.20									
2014/17027	12	VC6, 1m	Area i		55.70									
2014/17028	13	VC6, 2m	Area i		58.94									
2014/17029	14	VC6, 3m	Area i		51.50									
2014/17030	15	VC6, 4.53m	Area i		51.82									
2014/17031	20	VC02A, 0m	Area ii		49.93									
2014/17032	21	VC02A, 0.86m	Area ii		63.26									
2014/17033	22+36	VC08A+VC7, 0m	Area ii		47.42									
2014/17034	23+37	VC08A+VC7, 1m	Area ii		43.72									
2014/17035	24	VC08A, 2m	Area ii		39.24									
2014/17036	25+39	VC08A+VC7, 3m	Area ii		43.76									
2014/17037	26	VC08A, 4m	Area ii		76.21									
2014/17038	29	VC5, 1m	Area ii		43.87									
2014/17039	30	VC5, 2m	Area ii		52.38									
2014/17040	31	VC5, 3m	Area ii		45.57									
2014/17041	32	VC5, 3.48m	Area ii		41.64									
2014/17042	33	VC01A, 0m	Area ii		51.54									
2014/17043	34	VC01A, 1m	Area ii		55.14									
Mean						#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm)			
						BDE 66	BDE 85	BDE 99	BDE 209
2014/17019	1+5	VC03A+4, 0m	Area i		45.55				
2014/17021	4	VC03A, 1.79m	Area i		81.24				
2014/17022	7	VC4, 2m	Area i		48.79				
2014/17023	8	VC4, 3m	Area i		46.64				
2014/17024	9	VC4, 4m	Area i		46.46				
2014/17025	10	VC4, 4.53m	Area i		81.19				
2014/17026	11+28	VC6+VC5, 0m	Area i		45.20				
2014/17027	12	VC6, 1m	Area i		55.70				
2014/17028	13	VC6, 2m	Area i		58.94				
2014/17029	14	VC6, 3m	Area i		51.50				
2014/17030	15	VC6, 4.53m	Area i		51.82				
2014/17031	20	VC02A, 0m	Area ii		49.93				
2014/17032	21	VC02A, 0.86m	Area ii		63.26				
2014/17033	22+36	VC08A+VC7, 0m	Area ii		47.42				
2014/17034	23+37	VC08A+VC7, 1m	Area ii		43.72				
2014/17035	24	VC08A, 2m	Area ii		39.24				
2014/17036	25+39	VC08A+VC7, 3m	Area ii		43.76				
2014/17037	26	VC08A, 4m	Area ii		76.21				
2014/17038	29	VC5, 1m	Area ii		43.87				
2014/17039	30	VC5, 2m	Area ii		52.38				
2014/17040	31	VC5, 3m	Area ii		45.57				
2014/17041	32	VC5, 3.48m	Area ii		41.64				
2014/17042	33	VC01A, 0m	Area ii		51.54				
2014/17043	34	VC01A, 1m	Area ii		55.14				
Mean						#DIV/0!	#DIV/0!	#DIV/0!	

Produced by: JL  
 Date: 01/10/2014

**Organochlorines and BDE Results for Defra**

Application no. DCO/2014/00002

Applicant: Furgro Emu Ltd

Application Title: York Potash

Date Sampled: 04/08/2014



LOD= 0.0002ppm

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm)							
						AHCH	BHCH	GHCH	DIELDRIN	HCB	PPDDE	PPDDT	PPTDE
2014/17044	35	VC01A, 1.6m	Area ii		59.85	0.0002		0.0002	0.00055	0.00157	0.00075	0.00022	0.00112
2014/17045	38	VC7, 2m	Area ii		45.50	0.00042		0.00021	0.001	0.01222	0.0019	0.01679	0.00185
2014/17046	40	VC7, 4m	Area ii		38.64	0.00085		0.00188	0.0009	0.33495	0.00584	0.00434	0.00405
2014/17047	41	VC7, 4.86m	Area ii		48.16	0.003		0.00108	0.00093	0.85251	0.00104	0.00246	0.00143
2014/17048	42	VC05A, 3.78m	Area ii		51.57	0.00048		0.00086	0.00121	0.04167	0.00216	0.0028	0.00189
Mean						0.00099	#DIV/0!	0.00085	0.00092	0.08858	0.00234	0.00532	0.00207

AL1 (ppm dry) 0.005 0.001

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm)							
						BDE 100	BDE 138	BDE 153	BDE 154	BDE 17	BDE 183	BDE 28	BDE 47
2014/17044	35	VC01A, 1.6m	Area ii		59.85								
2014/17045	38	VC7, 2m	Area ii		45.50								
2014/17046	40	VC7, 4m	Area ii		38.64								
2014/17047	41	VC7, 4.86m	Area ii		48.16								
2014/17048	42	VC05A, 3.78m	Area ii		51.57								
Mean						#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

LSN	Sample	Location	Dredge Area no.	Excluded	TS (%)	mg/kg (ppm)			
						BDE66	BDE 85	BDE 99	BDE 209
2014/17044	35	VC01A, 1.6m	Area ii		59.85				
2014/17045	38	VC7, 2m	Area ii		45.50				
2014/17046	40	VC7, 4m	Area ii		38.64				
2014/17047	41	VC7, 4.86m	Area ii		48.16				
2014/17048	42	VC05A, 3.78m	Area ii		51.57				
Mean						#DIV/0!	#DIV/0!	#DIV/0!	

Produced by: JL  
Date: 01/10/2014



**PSA Results for Defra**

Application no. DCO/2014/00002

Applicant: Furgro Emu Ltd

Application Title: York Potash

Date Sampled: 04/08/2014



LSN	Sample No.	Location	Dredge Area no.	Excluded	TS (%)	Gravel	Sand	Silt/Clay
2014/17019	1+5	VC03A+4, 0m	Area i		45.55	0	20.23761	79.76239
2014/17020	2+6	VC03A+4, 1m	Area i		55.21	6.451613	34.3596	59.18878
2014/17021	4	VC03A, 1.79m	Area i		81.24	0.307692	46.19922	53.49309
2014/17022	7	VC4, 2m	Area i		48.79	0	21.37805	78.62195
2014/17023	8	VC4, 3m	Area i		46.64	0	15.63513	84.36487
2014/17024	9	VC4, 4m	Area i		46.46	0.149254	19.2252	80.62555
2014/17025	10	VC4, 4.53m	Area i		81.19	0.697211	84.25072	15.05207
2014/17026	11+28	VC6+VC5, 0m	Area i		45.20	0	15.87424	84.12576
2014/17027	12	VC6, 1m	Area i		55.70	0	17.42787	82.57213
2014/17028	13	VC6, 2m	Area i		58.94	0	16.05663	83.94337
2014/17029	14	VC6, 3m	Area i		51.50	0	15.98433	84.01567
2014/17030	15	VC6, 4.53m	Area i		51.82	0	19.68431	80.31569
2014/17031	20	VC02A, 0m	Area ii		49.93	0	17.83375	82.16625
2014/17032	21	VC02A, 0.86m	Area ii		63.26	0	16.24995	83.75005
2014/17033	22+36	VC08A+VC7, 0m	Area ii		47.42	0	25.11047	74.88953
2014/17034	23+37	VC08A+VC7, 1m	Area ii		43.72	0	23.02943	76.97057
2014/17035	24	VC08A, 2m	Area ii		39.24	0	28.24922	71.75078
2014/17036	25+39	VC08A+VC7, 3m	Area ii		43.76	0	24.45085	75.54915
2014/17037	26	VC08A, 4m	Area ii		76.21	0.070572	77.63206	22.29737
2014/17038	29	VC5, 1m	Area ii		43.87	0	31.6147	68.3853
2014/17039	30	VC5, 2m	Area ii		52.38	0	20.16341	79.83659
2014/17040	31	VC5, 3m	Area ii		45.57	0	12.50158	87.49842
2014/17041	32	VC5, 3.48m	Area ii		41.64	0	19.60518	80.39482
2014/17042	33	VC01A, 0m	Area ii		51.54	0	17.37179	82.62821
2014/17043	34	VC01A, 1m	Area ii		55.14	0	16.40732	83.59268



**PR details**

**App no:** DCO/2014/00002  
**Sampled date:** 04 August 2014  
**App Title:** York Potash  
**Applicant:** Furgro Emu Ltd

Tonnes			
Area i	960,000	76.19%	
Area ii	300,000	23.81%	
Area iii		0.00%	
Area iv		0.00%	
Area v		0.00%	
Area vi		0.00%	
<b>TOTAL</b>	<b>1,260,000</b>		



**PPM**

Metals & Tins

TS%	AS	CD	CR	CU	HG	NI	PB	ZN	DBT	TBT
54	11.52	0.777	97.54	379.5	4.4	22.09	62.21	188.5	0.0209	0.0181

**PPB**

Hydrocarbons

23BA	ACENAPH	ACENAPT	ANTHRAC	BAA	BAP	BBF	BENZGHI	BEP	BKF	C1N	C1PHEN
	623	2920	1010	876	511	573	303	395	218	34600	5330

Hydrocarbons

C2N	C3N	CHRYSEN	DBENZAH	FLUORAN	FLUOREN	INDPYR	NAPTH	PERYLEN	PHENANT	PYRENE	THC (ppm)
22500	20100	659	85.2	1820	4910	264	10900	138	11300	2590	3180

**PPM**

PCBs

CB#101	CB#105	CB#110	CB#118	CB#128	CB#138	CB#141	CB#149	CB#151
0.000792	0.000371	0.000878	0.000667	0.000557	0.00119	0.000314	0.00115	0.00159

PCBs

CB#153	CB#156	CB#158	CB#170	CB#18	CB#180	CB#183	CB#187	CB#194
0.000903	0.000214	0.000426	0.000143	0.00906	0.00033	0.000513	0.000203	0.000129

PCBs

CB#28	CB#31	CB#44	CB#47	CB#49	CB#52	CB#66	TOT25CBS	TOTICES7
0.00505	0.00245	0.00116	0.00152	0.000867	0.002	0.000956	0.0335	0.0106

**PPM**

Organochlorines

AHCH	BHCH	GHCH	DIELDRIN	HCB	PPDDE	PPDDT	PPTDE
0.00168		0.000365	0.00504	0.00456	0.000396	0.0146	0.000679

BDEs

BDE100	BDE138	BDE 153	BDE 154	BDE 17	BDE 183	BDE 28	BDE 47

BDEs

BDE66	BDE 85	BDE 99	BDE209



**PSA**

%Gravel	0.48
%Sand	26.77
%Silt/Clay	72.75

Dredge Area	Tonnage Exempt from Chemical Analysis*
Area i	
Area ii	
Area iii	
Area iv	
Area v	
Area vi	
	0

**PR details**

**App no:** DCO/2014/00002  
**Sampled date:** 04 August 2014  
**App Title:** York Potash  
**Applicant:** Furgro Emu Ltd

Tonnes			
Area i	960,000	76.19%	
Area ii	300,000	23.81%	
Area iii		0.00%	
Area iv		0.00%	
Area v		0.00%	
Area vi		0.00%	
<b>TOTAL</b>	<b>1,260,000</b>		



**PPM**

Metals & Tins

TS%	AS	CD	CR	CU	HG	NI	PB	ZN	DBT	TBT
12	4.311	0.33	42.15	121.1	2.56	4.34	22.5	77.46	0.0153	0.00566

**PPB**

Hydrocarbons

23BA	ACENAPH	ACENAPT	ANTHRAC	BAA	BAP	BBF	BENZGHI	BEP	BKF	C1N	C1PHEN
	190	923	385	300	186	186	99	144	64.9	9950	1870

Hydrocarbons

C2N	C3N	CHRYSEN	DBENZAH	FLUORAN	FLUOREN	INDPYR	NAPTH	PERYLEN	PHENANT	PYRENE	THC (ppm)
9820	8780	235	43	560	1690	80.1	3210	45.8	3570	788	1030

**PPM**

PCBs

CB#101	CB#105	CB#110	CB#118	CB#128	CB#138	CB#141	CB#149	CB#151
0.00108	0.000126	0.000599	0.000434	0.000375	0.000611	0.000275	0.000456	0.000523

PCBs

CB#153	CB#156	CB#158	CB#170	CB#18	CB#180	CB#183	CB#187	CB#194
0.000512	0.0000725	0.000212	0.0000615	0.0088	0.0002	0.000128	0.000101	0.0000498

PCBs

CB#28	CB#31	CB#44	CB#47	CB#49	CB#52	CB#66	TOT25CBS	TOTICES7
0.00904	0.00422	0.00123	0.000707	0.00121	0.00192	0.000364	0.0333	0.0136

**PPM**

Organochlorines

AHCH	BHCH	GHCH	DIELDRIN	HCB	PPDDE	PPDDT	PPTDE
0.000111		0.0000907	0.000105	0.00868	0.000247	0.000575	0.000226

BDEs

BDE100	BDE138	BDE 153	BDE 154	BDE 17	BDE 183	BDE 28	BDE 47

BDEs

BDE66	BDE 85	BDE 99	BDE209



**PSA**

%Gravel	0.02
%Sand	3.75
%Silt/Clay	20.04

Dredge Area	Tonnage Exempt from Chemical Analysis*
Area i	
Area ii	
Area iii	
Area iv	
Area v	
Area vi	
	0

ApplicationNo	TS	Gravel	Sand	Silt	As	Cd	Cr	Cu	Hg	Ni	Pb
DCO/2014/00002	54	0.4841986	26.76626081	72.749541	11.52	0.777	97.54	379.5	4.4	22.09	62.21

TBT	Acenaphth	Acenaphthylene	Antracn	BAA	BAP	BBF	BEP	Benzghip	BKF	C1N
0.0181	623	2920	1010	876	511	573	395	303	218	34600

C3N	Chrysene	Debenzah	Flurant	Fluorene	Indypr	naph	perylene	phenant	pyrene	THC
20100	659	85.2	1820	4910	264	10900	138	11300	2590	3180

PCB101	PCB118	PCB138	PCB153	PCB18	PCB105	PCB110	PCB128	PCB141	PCB149	PCB151
0.000792	0.000667	0.00119	0.000903	0.00906	0.000371	0.000878	0.000557	0.000314	0.00115	0.00159

PCB170	PCB180	PCB183	PCB187	PCB194	PCB31	PCB44	PCB47	PCB49	PCB66	ICES7
0.000143	0.00033	0.000513	0.000203	0.000129	0.00245	0.00116	0.00152	0.000867	0.000956	0.0106

GHCH	DIELDRIN	HCB	DDE	DDT	TDE	BDE100	BDE138	BDE153	BDE154	BDE17
0.000365	0.00504	0.00456	0.000396	0.0146	0.000679					

BDE28	BDE47	BDE66	BDE85	BDE99	Ag	TonnesExemptFromChemAnal
						0

Zn	DBT
188.5	0.0209

C1PHEN	C2N
5330	22500

PCB28	PCB52
0.00505	0.002

PCB156	PCB158
0.000214	0.000426

AHCH	BHCH
0.00168	

BDE183	BDE209

ApplicationNo	TS	Gravel	Sand	Silt	As	Cd	Cr	Cu	Hg	Ni	Pb	Zn	DBT
DCO/2014/00002	12	0.0204826	3.751151463	20.0379	4.311	0.33	42.15	121.1	2.56	4.34	22.5	77.46	0.0155

TBT	Acenaphth	Acenaphthylene	Antracn	BAA	BAP	BBF	BEP	Benzghip	BKF	C1N	C1PHEN	C2N
0.00566	190	923	385	300	186	186	144	99	64.9	9950	1870	9820

C3N	Chrysene	Debenzah	Flurant	Fluorene	Indypr	naph	perylene	phenant	pyrene	THC	PCB28	PCB52
8780	235	43	560	1690	80.1	3210	45.8	3570	788	1030	0.00904	0.00192

PCB101	PCB118	PCB138	PCB153	PCB18	PCB105	PCB110	PCB128	PCB141	PCB149	PCB151	PCB156	PCB158
0.00108	0.000434	0.000611	0.00051	0.0088	0.00013	0.0006	0.00038	0.00028	0.00046	0.00052	7.3E-05	0.00021

PCB170	PCB180	PCB183	PCB187	PCB194	PCB31	PCB44	PCB47	PCB49	PCB66	ICES7	AHCH	BHCH
6.2E-05	0.0002	0.000128	0.0001	5E-05	0.00422	0.00123	0.00071	0.00121	0.00036	0.0136	0.00011	

GHCH	DIELDRIN	HCB	DDE	DDT	TDE	BDE100	BDE138	BDE153	BDE154	BDE17	BDE183	BDE209
9.1E-05	0.000105	0.00868	0.00025	0.00058	0.00023							

BDE28	BDE47	BDE66	BDE85	BDE99	Ag	TonnesExemptFromChemAnal
						0

**CONTRACT:**

**AREA:**

**DAS:**

**Sample analysis completed by:**

**Results validated by:**

**No of Samples:**

**Deadline:**

**LICENSING  
York Potash  
DCO/2014/00002/A  
C. LIMPENNY  
C. MASON  
30  
30/09/2014**

**Method of analysis:**

Visual description completed.

Subsample removed and laser diffraction completed on <1mm fraction.

The rest of the sample is split at 1mm and the >1mm dry sieved at 0.5φ intervals.

The <1mm is dried and weighed and used to calculate proportion of <1mm:>1mm.

Sieve and laser data are merged to produce a complete particle size (PS) distribution at 0.5φ intervals.

**Visual description and PSA (NMBAQC method)**

[http://www.nmbaqcs.org/media/10839/nmbaqc%20best%20practice%20guidance\\_particle%20size%20analysis.pdf](http://www.nmbaqcs.org/media/10839/nmbaqc%20best%20practice%20guidance_particle%20size%20analysis.pdf)

Mason, C. 2011. NMBAQC's Best Practice Guidance. Particle Size Analysis (PSA) for Supporting Biological Analysis. National Marine Biological AQC Coordinating Committee, 72pp, December 2011.

**Method of analysis:**

Freeze-dry subsample

Remove >2mm

Grind <2mm

Removal of inorganic carbon by sulphurous acid digest

Carbon measured with elemental analyser.

**Organic carbon and nitrogen:**

**Storage of samples after analysis:**

Samples will initially be stored in the Sedimentology Laboratory.

Following this, they will be catalogued, and placed in dry storage.

**Notes:**

2014/17022; 2014/17029; 2014/17030; 2014/17032

Small sample. Laser analysis only completed on these. Minimal >1mm sediment observed when sample screened.



<b>York Potash</b>	<b>DCO/2014/00002/A</b>				Very coarse and coarse sand (%)	Medium sand (%)	Fine sand and very fine sand (%)
<b>LIMs sample number</b>	<b>Sample site/sites</b>	Gravel (%)	Sand (%)	Silt/Clay (%)			
2014/17019	Sample 1+5	0.00	20.24	79.76	0.71	1.95	17.58
2014/17020	Sample 2+6	6.45	34.36	59.19	5.45	4.95	23.96
2014/17021	Sample 4	0.31	46.20	53.49	15.98	9.27	20.95
2014/17022	Sample 7	0.00	21.38	78.62	1.14	2.12	18.11
2014/17023	Sample 8	0.00	15.64	84.36	0.37	0.50	14.76
2014/17024	Sample 9	0.15	19.23	80.63	0.30	0.54	18.38
2014/17025	Sample 10	0.70	84.25	15.05	5.38	14.98	63.90
2014/17026	Sample 11+28	0.00	15.87	84.13	0.18	0.09	15.60
2014/17027	Sample 12	0.00	17.43	82.57	0.32	0.40	16.70
2014/17028	Sample 13	0.00	16.06	83.94	0.00	0.16	15.89
2014/17029	Sample 14	0.00	15.98	84.02	0.00	0.36	15.62
2014/17030	Sample 15	0.00	19.68	80.32	0.35	1.96	17.38
2014/17031	Sample 20	0.00	17.83	82.17	0.07	0.29	17.48
2014/17032	Sample 21	0.00	16.25	83.75	0.00	0.23	16.02
2014/17033	Sample 22+36	0.00	25.11	74.89	0.71	1.65	22.75
2014/17034	Sample 23+37	0.00	23.03	76.97	0.72	1.19	21.12
2014/17035	Sample 24	0.00	28.25	71.75	0.71	4.64	22.90
2014/17036	Sample 25+39	0.00	24.45	75.55	0.93	3.17	20.35
2014/17037	Sample 26	0.07	77.63	22.30	11.14	34.07	32.41
2014/17038	Sample 29	0.00	31.61	68.39	1.02	3.60	26.99
2014/17039	Sample 30	0.00	20.16	79.84	0.11	0.64	19.41
2014/17040	Sample 31	0.00	12.50	87.50	0.07	0.05	12.38
2014/17041	Sample 32	0.00	19.61	80.39	0.57	1.15	17.89
2014/17042	Sample 33	0.00	17.37	82.63	0.15	0.23	16.99
2014/17043	Sample 34	0.00	16.41	83.59	0.05	0.13	16.23
2014/17044	Sample 35	0.13	13.14	86.73	0.13	0.05	12.96
2014/17045	Sample 38	0.15	17.00	82.84	0.15	0.53	16.32
2014/17046	Sample 40	0.00	16.13	83.87	0.14	0.35	15.64
2014/17047	Sample 41	0.07	16.74	83.18	0.22	0.24	16.28
2014/17048	Sample 42	0.07	15.76	84.16	0.15	0.14	15.48



**DCO/2014/00002/**

<b>York Potash</b>	<b>A</b>	-0.5	0	0.5	1	1.5	2	2.5	3	3.5	4
<b>LIMs sample number</b>	<b>Sample site/sites</b>	1.4mm	1mm	707um	500um	353.6um	250um	176.8um	125um	88.39um	63um
2014/17019	Sample 1+5	0.11	0.11	0.00	0.48	0.81	1.13	2.74	3.58	4.93	6.34
2014/17020	Sample 2+6	1.81	1.35	0.74	1.55	1.93	3.02	6.93	6.37	5.45	5.20
2014/17021	Sample 4	1.03	2.46	6.36	6.14	4.93	4.33	5.89	5.49	4.93	4.64
2014/17022	Sample 7	0.00	0.00	0.02	1.11	1.21	0.91	3.17	4.19	5.09	5.66
2014/17023	Sample 8	0.19	0.19	0.00	0.00	0.00	0.50	2.39	3.36	4.26	4.75
2014/17024	Sample 9	0.15	0.15	0.00	0.00	0.00	0.54	2.96	4.61	5.32	5.49
2014/17025	Sample 10	0.50	0.45	2.37	2.06	4.45	10.53	25.77	23.93	11.07	3.12
2014/17026	Sample 11+28	0.09	0.09	0.00	0.00	0.00	0.09	1.67	3.42	4.59	5.91
2014/17027	Sample 12	0.11	0.00	0.00	0.21	0.19	0.20	1.49	3.47	5.10	6.65
2014/17028	Sample 13	0.00	0.00	0.00	0.00	0.00	0.16	2.65	3.82	3.89	5.53
2014/17029	Sample 14	0.00	0.00	0.00	0.00	0.00	0.36	2.86	4.00	4.19	4.56
2014/17030	Sample 15	0.00	0.00	0.10	0.25	0.26	1.69	3.92	3.90	4.46	5.10
2014/17031	Sample 20	0.00	0.07	0.00	0.00	0.00	0.29	2.28	3.68	5.25	6.26
2014/17032	Sample 21	0.00	0.00	0.00	0.00	0.00	0.23	2.65	4.00	4.34	5.02
2014/17033	Sample 22+36	0.07	0.07	0.03	0.54	0.61	1.04	3.71	5.07	6.48	7.49
2014/17034	Sample 23+37	0.09	0.09	0.16	0.39	0.39	0.80	3.90	5.27	5.64	6.31
2014/17035	Sample 24	0.00	0.00	0.02	0.69	1.75	2.89	5.80	6.11	5.57	5.41
2014/17036	Sample 25+39	0.11	0.11	0.02	0.70	1.65	1.52	4.63	5.82	5.11	4.78
2014/17037	Sample 26	0.32	0.49	3.13	7.20	13.96	20.11	18.91	8.61	2.99	1.90
2014/17038	Sample 29	0.09	0.09	0.20	0.64	1.35	2.25	5.85	6.77	6.90	7.47
2014/17039	Sample 30	0.05	0.05	0.00	0.00	0.01	0.63	2.98	4.62	5.61	6.21
2014/17040	Sample 31	0.00	0.07	0.00	0.00	0.00	0.05	1.58	3.28	3.57	3.95
2014/17041	Sample 32	0.10	0.10	0.00	0.37	0.43	0.72	3.46	4.46	4.88	5.09
2014/17042	Sample 33	0.08	0.08	0.00	0.00	0.00	0.23	2.13	3.67	5.02	6.16
2014/17043	Sample 34	0.00	0.05	0.00	0.00	0.00	0.13	1.79	3.58	4.74	6.12
2014/17044	Sample 35	0.07	0.07	0.00	0.00	0.00	0.05	1.38	2.83	3.65	5.10
2014/17045	Sample 38	0.08	0.08	0.00	0.00	0.00	0.53	2.53	3.70	4.68	5.41
2014/17046	Sample 40	0.00	0.14	0.00	0.00	0.00	0.35	2.84	4.17	4.18	4.44
2014/17047	Sample 41	0.07	0.15	0.00	0.00	0.00	0.24	3.15	4.83	4.23	4.08
2014/17048	Sample 42	0.07	0.07	0.00	0.00	0.00	0.14	2.46	4.21	4.16	4.64

**DCO/2014/00002/**

<b>York Potash</b>	<b>A</b>	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9
<b>LIMs sample number</b>	<b>Sample site/sites</b>	44.2um	31.3um	22.1um	15.6um	11um	7.8um	5.5um	3.9um	2.75um	1.95um
2014/17019	Sample 1+5	7.50	8.59	8.62	8.69	8.31	7.76	6.95	5.79	4.46	3.27
2014/17020	Sample 2+6	5.41	6.05	6.31	6.65	6.28	5.64	4.96	4.18	3.33	2.57
2014/17021	Sample 4	4.92	4.88	4.56	4.62	4.39	4.11	3.86	3.55	3.24	3.03
2014/17022	Sample 7	6.15	7.52	8.83	9.75	9.18	7.93	6.68	5.44	4.24	3.25
2014/17023	Sample 8	5.24	7.02	8.95	10.12	9.68	8.58	7.37	6.07	4.82	3.85
2014/17024	Sample 9	5.59	6.59	7.61	8.65	8.61	8.05	7.27	6.22	5.01	4.00
2014/17025	Sample 10	1.44	1.20	0.97	1.22	1.18	1.19	1.21	1.11	0.90	0.89
2014/17026	Sample 11+28	6.98	8.28	8.63	9.02	8.97	8.64	7.84	6.55	4.96	3.51
2014/17027	Sample 12	8.34	9.58	9.43	8.95	7.93	7.04	6.27	5.37	4.36	3.44
2014/17028	Sample 13	6.43	7.62	8.12	8.79	8.41	7.72	7.00	6.11	5.11	4.23
2014/17029	Sample 14	5.34	7.23	9.22	10.60	10.15	8.80	7.41	5.98	4.62	3.53
2014/17030	Sample 15	6.02	7.82	9.43	10.46	9.92	8.54	7.02	5.48	4.07	2.97
2014/17031	Sample 20	6.98	8.05	8.20	8.48	8.36	8.06	7.46	6.41	5.00	3.66
2014/17032	Sample 21	5.92	7.18	7.72	8.63	8.77	8.55	7.94	6.88	5.52	4.27
2014/17033	Sample 22+36	8.08	8.48	8.17	7.99	7.62	7.24	6.46	5.27	3.95	2.84
2014/17034	Sample 23+37	7.38	8.88	9.77	9.88	8.84	7.44	6.06	4.72	3.49	2.54
2014/17035	Sample 24	5.57	6.29	6.76	7.52	7.63	7.31	6.68	5.73	4.56	3.50
2014/17036	Sample 25+39	5.13	6.14	6.98	8.18	8.24	7.69	6.94	5.93	4.76	3.77
2014/17037	Sample 26	1.74	1.88	1.85	1.90	1.87	1.82	1.73	1.60	1.43	1.29
2014/17038	Sample 29	8.25	8.81	8.42	7.90	6.99	6.13	5.29	4.34	3.32	2.41
2014/17039	Sample 30	6.80	7.56	7.97	8.73	8.56	7.78	6.79	5.63	4.43	3.47
2014/17040	Sample 31	4.43	5.76	6.85	8.40	9.01	9.07	8.65	7.64	6.27	5.03
2014/17041	Sample 32	5.61	6.31	7.64	8.72	8.62	8.18	7.46	6.44	5.23	4.14
2014/17042	Sample 33	7.48	8.31	8.77	8.91	8.02	7.58	7.08	6.14	4.87	3.64
2014/17043	Sample 34	7.52	8.78	8.84	8.67	8.03	7.59	6.91	5.89	4.73	3.69
2014/17044	Sample 35	6.35	7.75	8.19	8.73	8.35	7.82	7.30	6.51	5.44	4.41
2014/17045	Sample 38	6.20	7.30	8.11	9.21	9.17	8.63	7.60	6.18	4.77	3.68
2014/17046	Sample 40	4.98	6.68	8.35	9.51	9.25	8.57	7.76	6.66	5.36	4.19
2014/17047	Sample 41	4.45	5.76	7.00	8.45	8.76	8.40	7.72	6.70	5.49	4.50
2014/17048	Sample 42	5.39	6.00	7.22	8.52	8.33	8.13	7.57	6.62	5.52	4.62

**DCO/2014/00002/**

<b>York Potash</b>	<b>A</b>	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14
<b>LIMs sample number</b>	<b>Sample site/sites</b>	1.38um	0.98um	0.69um	0.49um	0.34um	0.24um	0.17um	0.12um	0.09um	0.06um
2014/17019	Sample 1+5	2.32	1.61	1.23	1.11	1.05	0.92	0.70	0.48	0.28	0.11
2014/17020	Sample 2+6	1.93	1.40	1.06	0.87	0.76	0.63	0.49	0.35	0.22	0.09
2014/17021	Sample 4	2.65	2.05	1.59	1.43	1.39	1.23	0.91	0.61	0.33	0.12
2014/17022	Sample 7	2.47	1.88	1.44	1.13	0.88	0.67	0.48	0.34	0.21	0.09
2014/17023	Sample 8	3.11	2.49	1.97	1.55	1.20	0.90	0.63	0.44	0.27	0.11
2014/17024	Sample 9	3.21	2.55	2.02	1.60	1.24	0.93	0.65	0.45	0.26	0.10
2014/17025	Sample 10	0.90	0.74	0.54	0.41	0.34	0.29	0.21	0.16	0.10	0.04
2014/17026	Sample 11+28	2.41	1.67	1.32	1.22	1.17	1.05	0.82	0.59	0.36	0.14
2014/17027	Sample 12	2.63	1.98	1.57	1.37	1.24	1.07	0.83	0.61	0.38	0.15
2014/17028	Sample 13	3.37	2.51	1.93	1.64	1.48	1.27	0.96	0.68	0.41	0.16
2014/17029	Sample 14	2.73	2.12	1.67	1.33	1.05	0.81	0.59	0.42	0.26	0.10
2014/17030	Sample 15	2.18	1.64	1.26	1.01	0.80	0.62	0.45	0.33	0.21	0.08
2014/17031	Sample 20	2.59	1.85	1.47	1.34	1.26	1.09	0.82	0.58	0.35	0.13
2014/17032	Sample 21	3.16	2.25	1.65	1.33	1.15	0.97	0.75	0.55	0.35	0.14
2014/17033	Sample 22+36	2.00	1.40	1.10	1.00	0.95	0.84	0.64	0.46	0.28	0.11
2014/17034	Sample 23+37	1.88	1.45	1.17	0.96	0.78	0.62	0.46	0.34	0.21	0.09
2014/17035	Sample 24	2.65	1.97	1.48	1.16	0.93	0.73	0.54	0.39	0.24	0.09
2014/17036	Sample 25+39	2.98	2.32	1.80	1.41	1.10	0.83	0.58	0.40	0.24	0.09
2014/17037	Sample 26	1.15	0.99	0.81	0.66	0.52	0.40	0.29	0.21	0.13	0.05
2014/17038	Sample 29	1.68	1.15	0.85	0.70	0.62	0.53	0.42	0.31	0.19	0.08
2014/17039	Sample 30	2.74	2.17	1.76	1.47	1.23	1.00	0.74	0.53	0.32	0.13
2014/17040	Sample 31	3.95	2.99	2.30	1.91	1.64	1.35	0.98	0.68	0.40	0.15
2014/17041	Sample 32	3.19	2.36	1.74	1.35	1.08	0.85	0.62	0.45	0.27	0.11
2014/17042	Sample 33	2.64	1.89	1.49	1.34	1.27	1.13	0.88	0.63	0.39	0.15
2014/17043	Sample 34	2.81	2.11	1.70	1.52	1.41	1.23	0.93	0.66	0.39	0.15
2014/17044	Sample 35	3.48	2.68	2.16	1.91	1.74	1.48	1.08	0.74	0.43	0.16
2014/17045	Sample 38	2.87	2.21	1.73	1.41	1.17	0.94	0.70	0.51	0.32	0.12
2014/17046	Sample 40	3.24	2.48	1.89	1.47	1.14	0.87	0.63	0.45	0.28	0.11
2014/17047	Sample 41	3.70	2.98	2.38	1.95	1.61	1.27	0.91	0.63	0.37	0.14
2014/17048	Sample 42	3.83	3.05	2.41	1.95	1.60	1.27	0.91	0.65	0.39	0.15

**DCO/2014/00002/**

**York Potash**

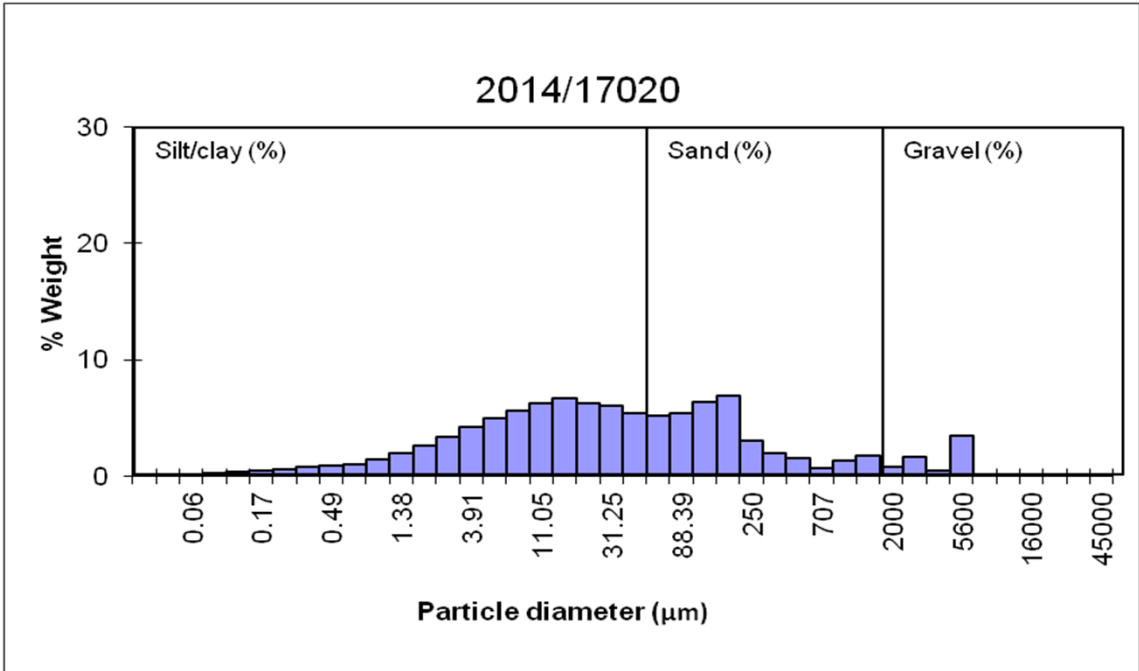
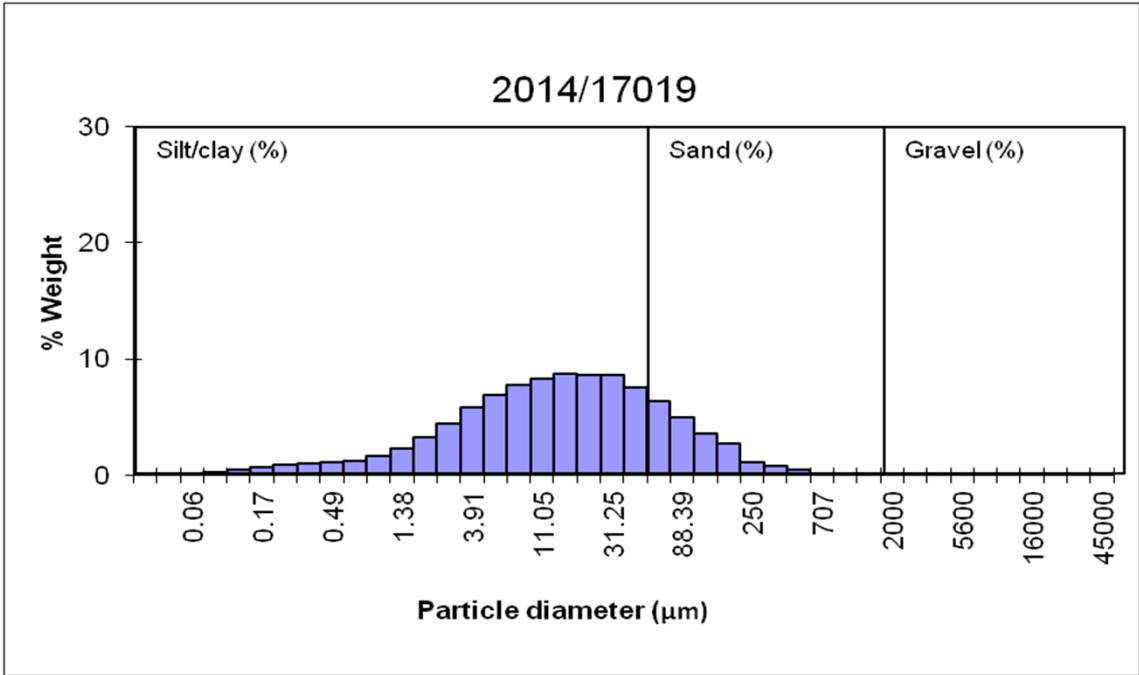
**A**

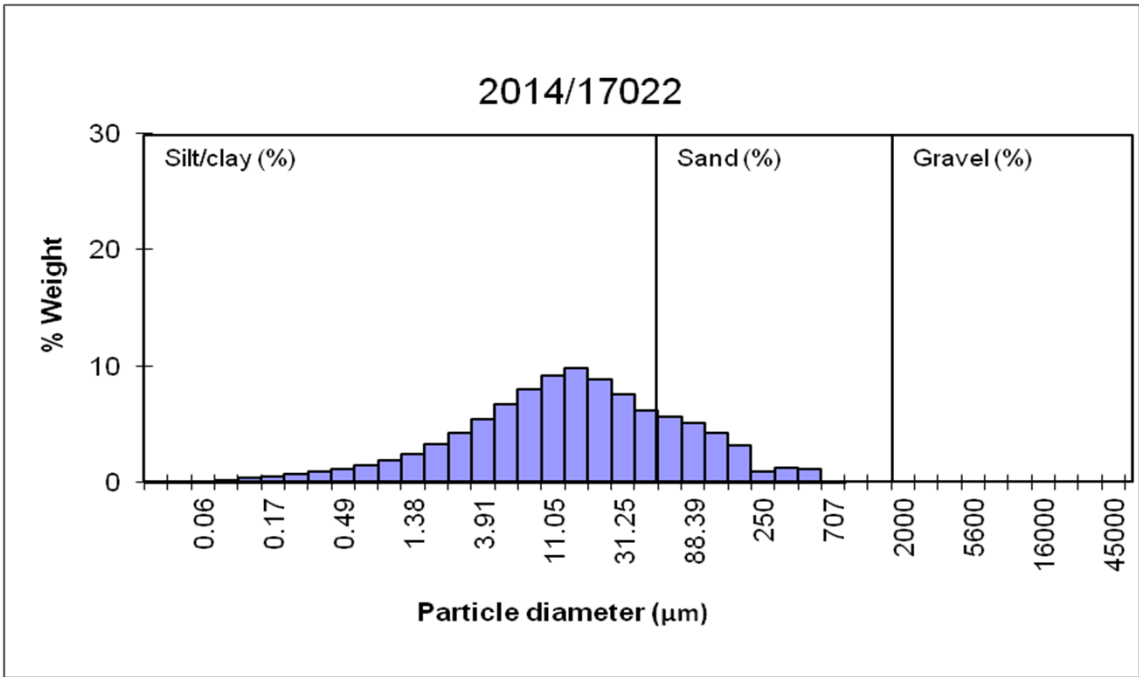
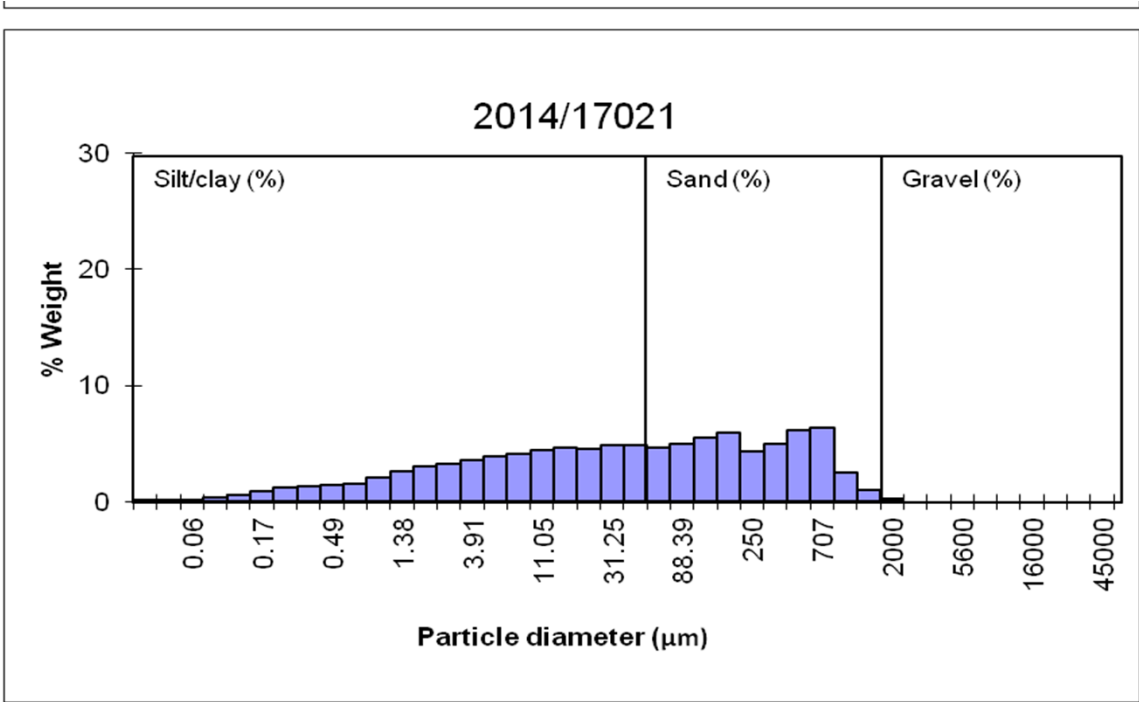
14.5 >14.5  
0.04um <0.04um

**LIMs sample number**

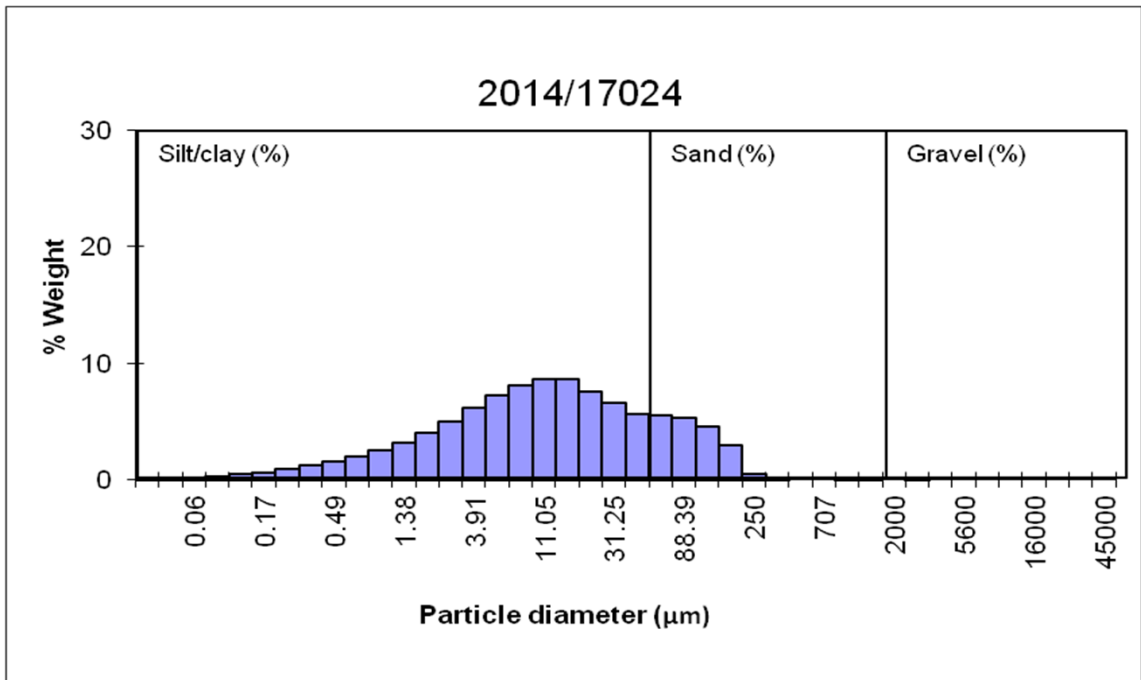
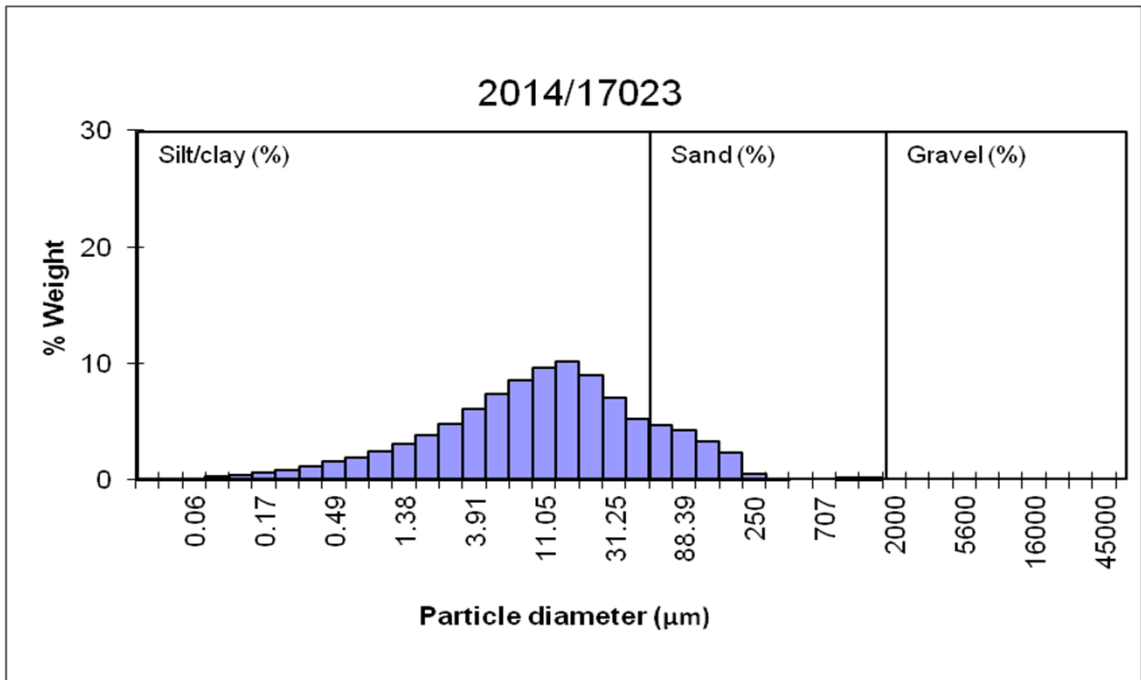
**Sample site/sites**

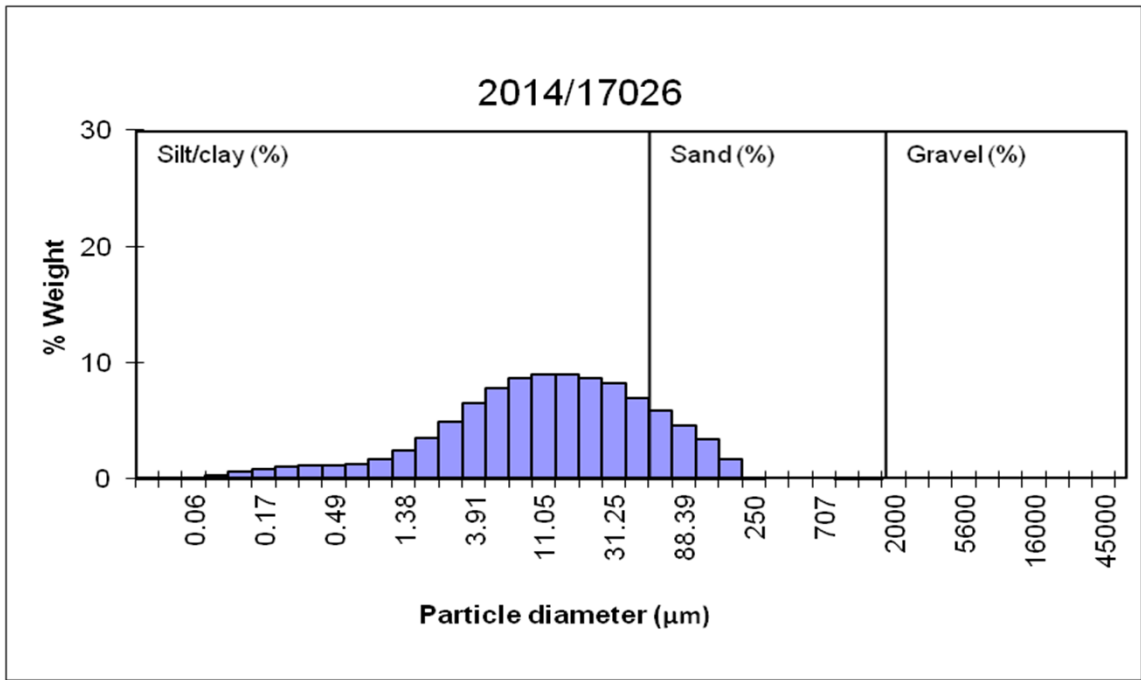
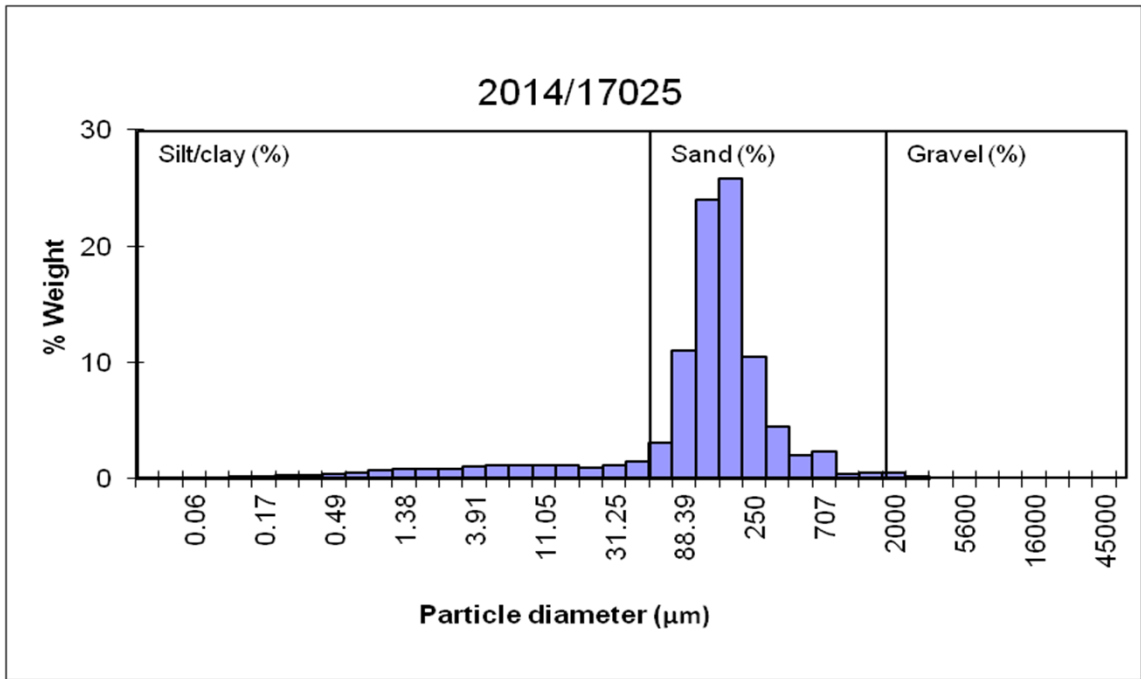
LIMs sample number	Sample site/sites	0.04um	<0.04um
2014/17019	Sample 1+5	0.01	0.00
2014/17020	Sample 2+6	0.01	0.00
2014/17021	Sample 4	0.02	0.00
2014/17022	Sample 7	0.01	0.00
2014/17023	Sample 8	0.01	0.00
2014/17024	Sample 9	0.01	0.00
2014/17025	Sample 10	0.01	0.00
2014/17026	Sample 11+28	0.02	0.00
2014/17027	Sample 12	0.02	0.00
2014/17028	Sample 13	0.02	0.00
2014/17029	Sample 14	0.01	0.00
2014/17030	Sample 15	0.01	0.00
2014/17031	Sample 20	0.02	0.00
2014/17032	Sample 21	0.02	0.00
2014/17033	Sample 22+36	0.01	0.00
2014/17034	Sample 23+37	0.01	0.00
2014/17035	Sample 24	0.01	0.00
2014/17036	Sample 25+39	0.01	0.00
2014/17037	Sample 26	0.01	0.00
2014/17038	Sample 29	0.01	0.00
2014/17039	Sample 30	0.02	0.00
2014/17040	Sample 31	0.02	0.00
2014/17041	Sample 32	0.01	0.00
2014/17042	Sample 33	0.02	0.00
2014/17043	Sample 34	0.02	0.00
2014/17044	Sample 35	0.02	0.00
2014/17045	Sample 38	0.02	0.00
2014/17046	Sample 40	0.01	0.00
2014/17047	Sample 41	0.02	0.00
2014/17048	Sample 42	0.02	0.00

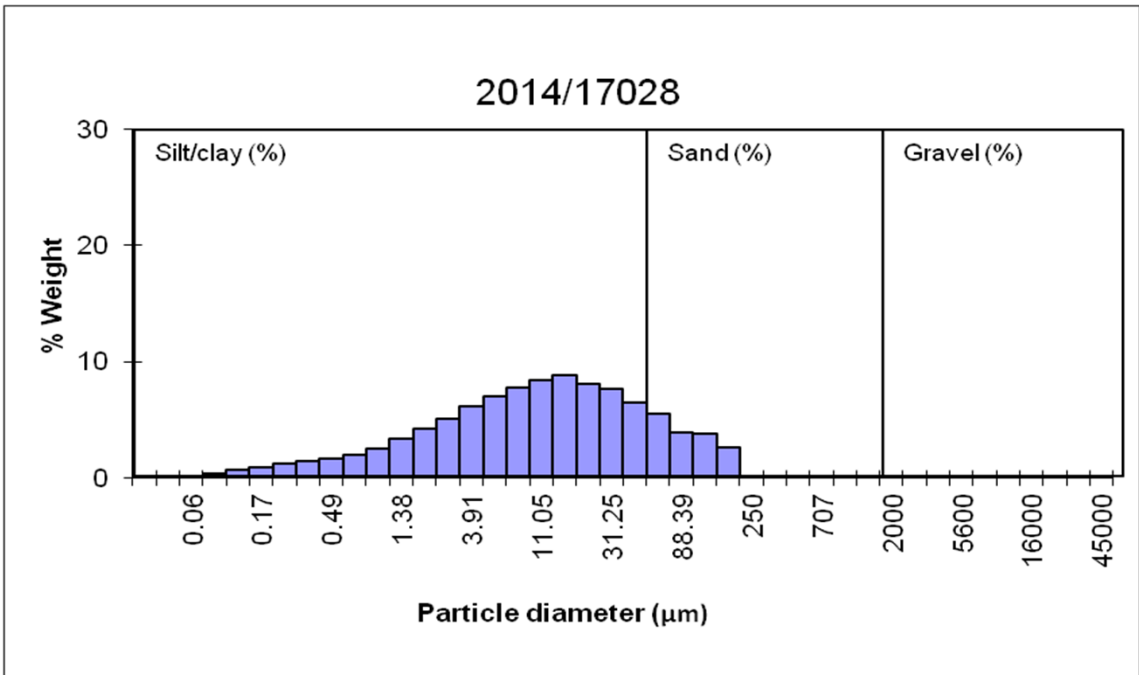
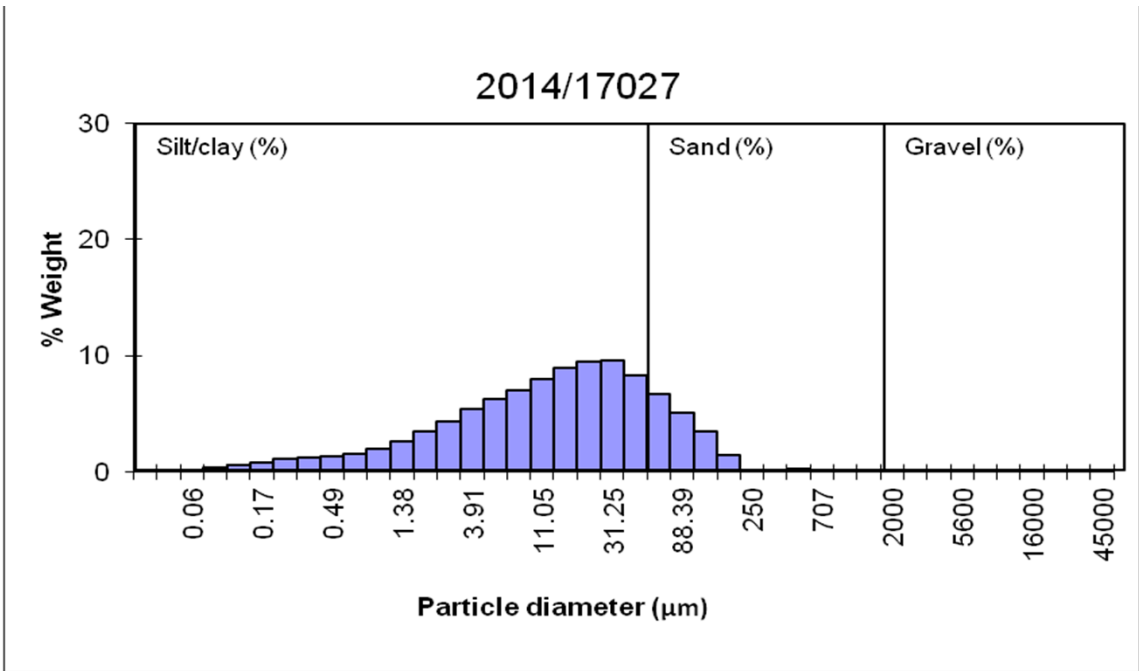


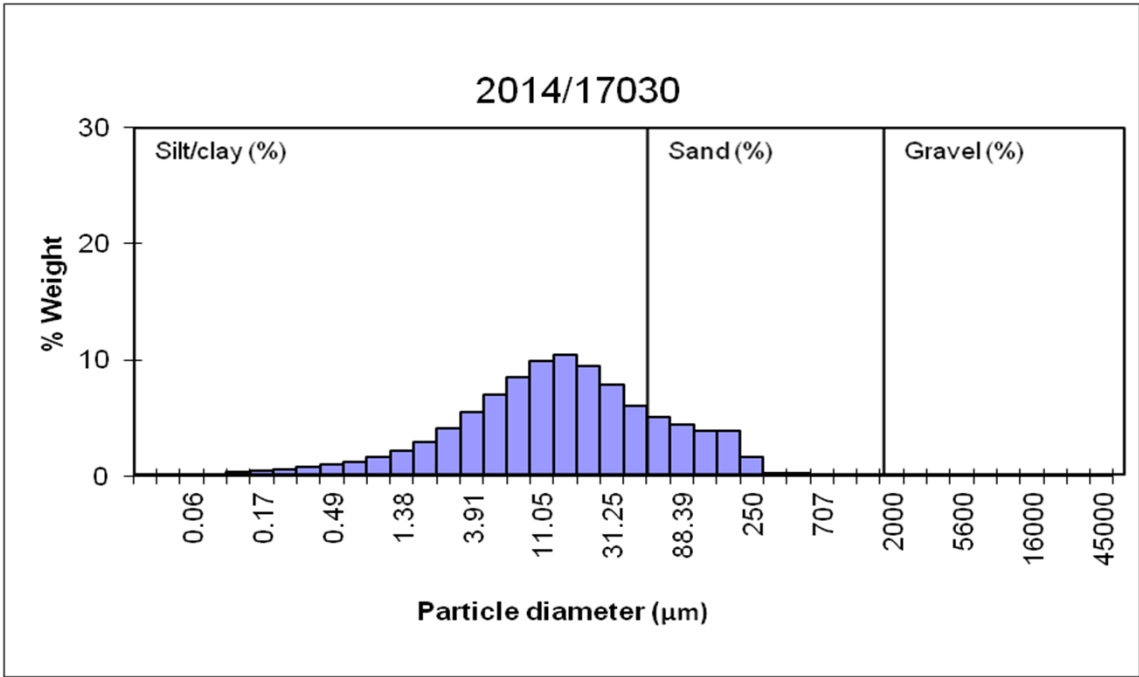
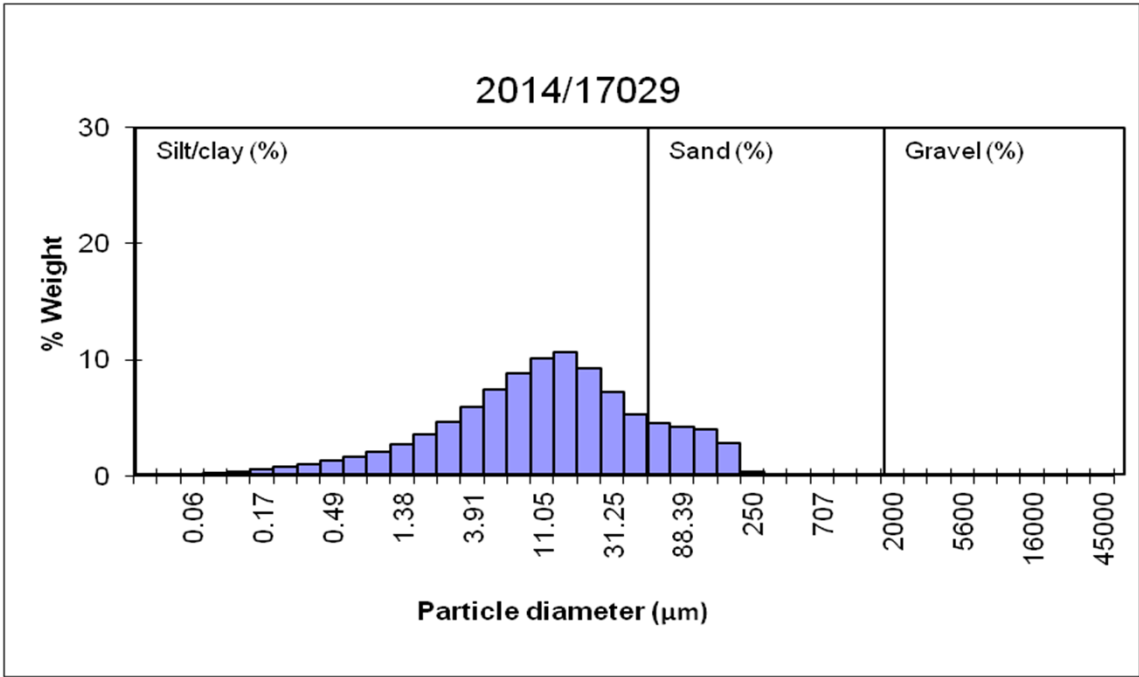


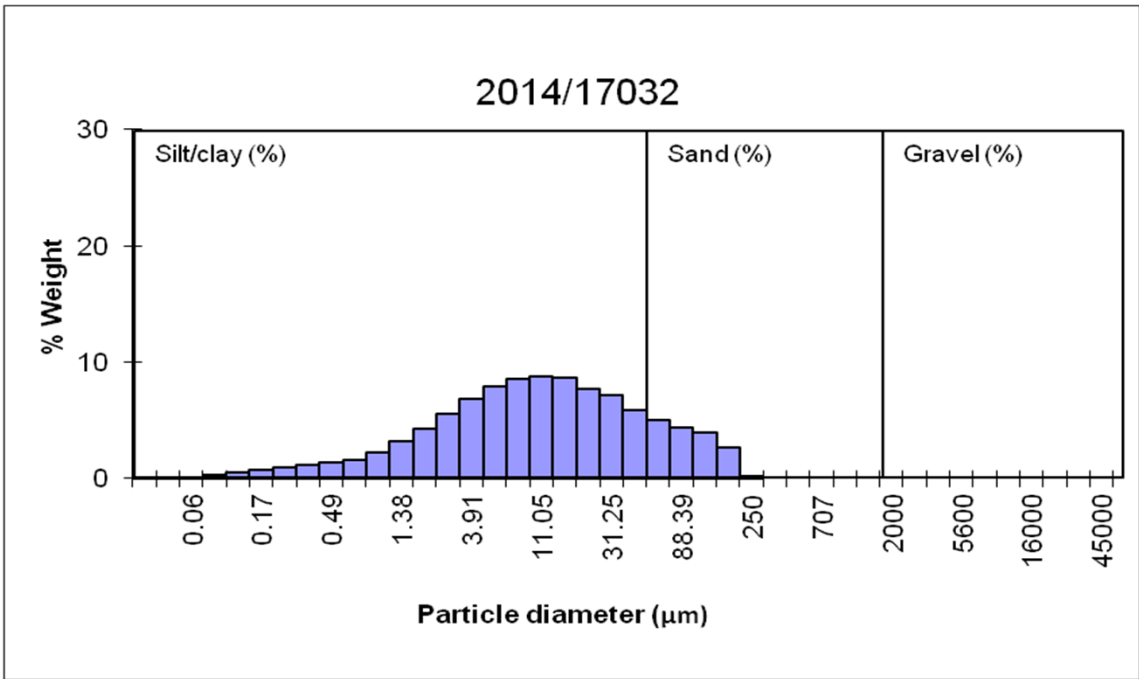
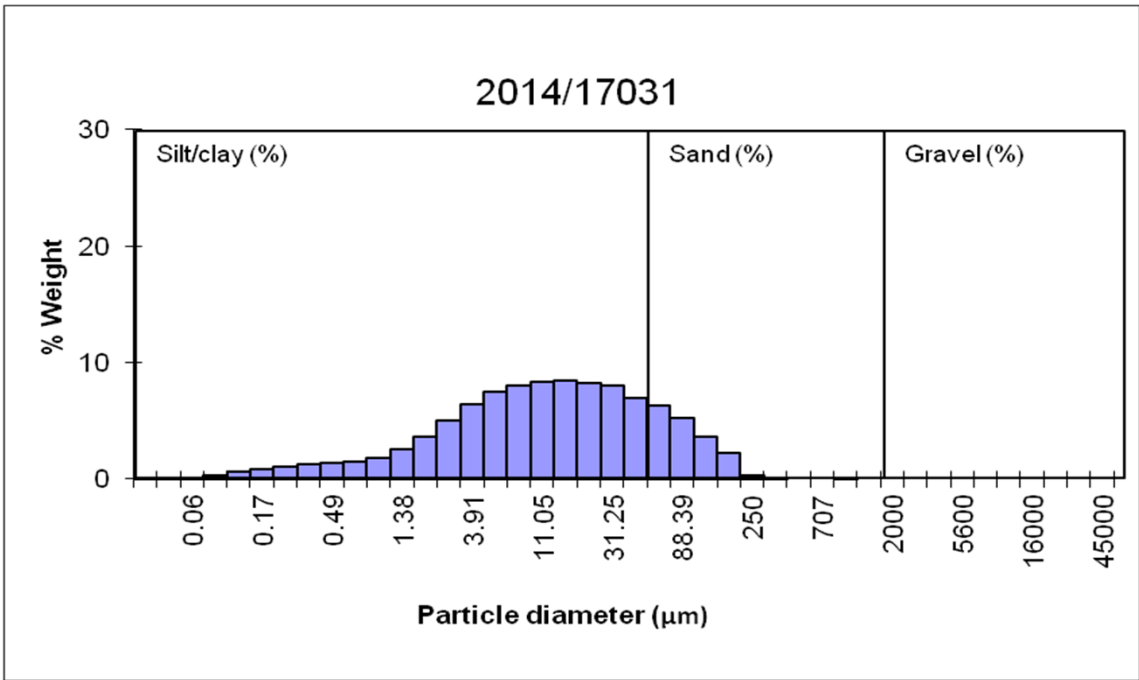




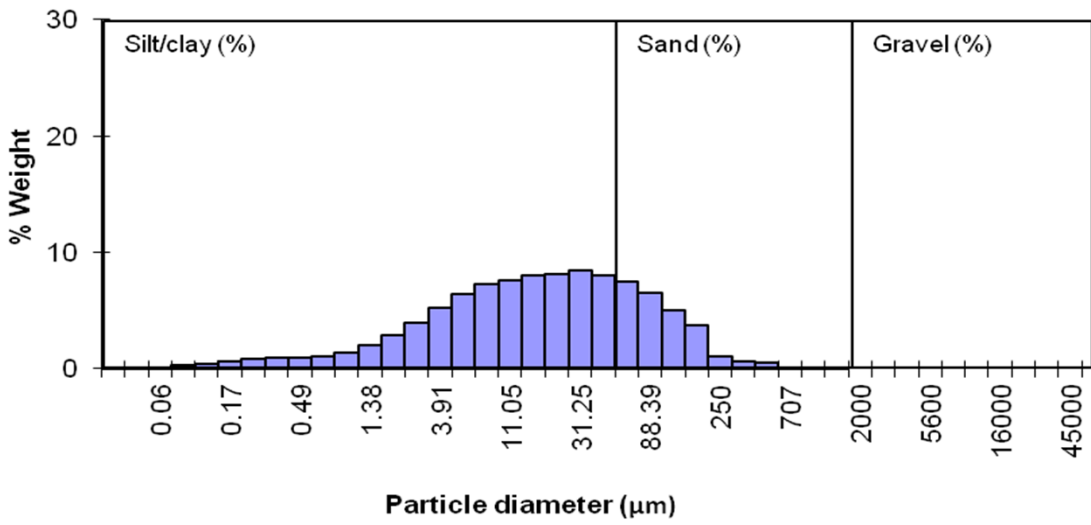




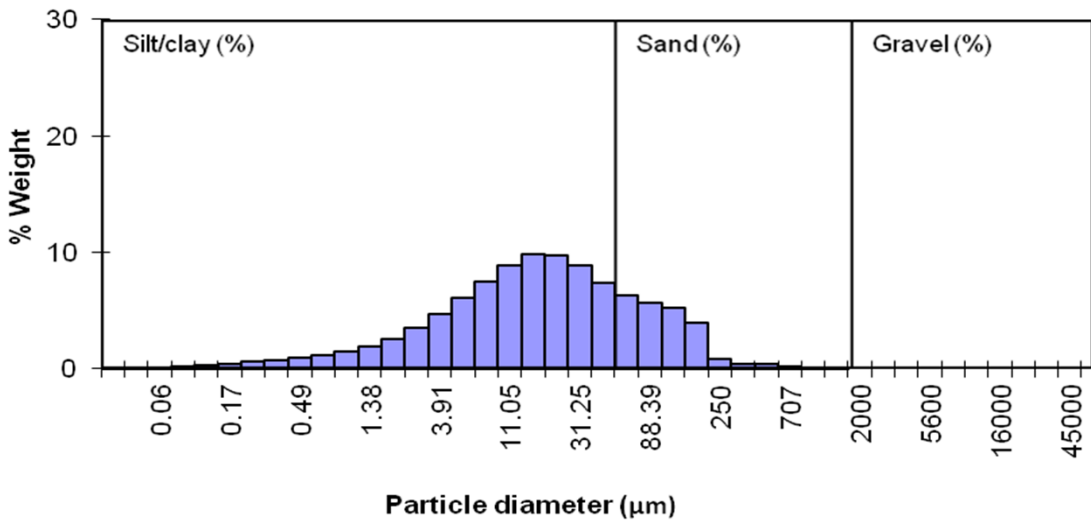


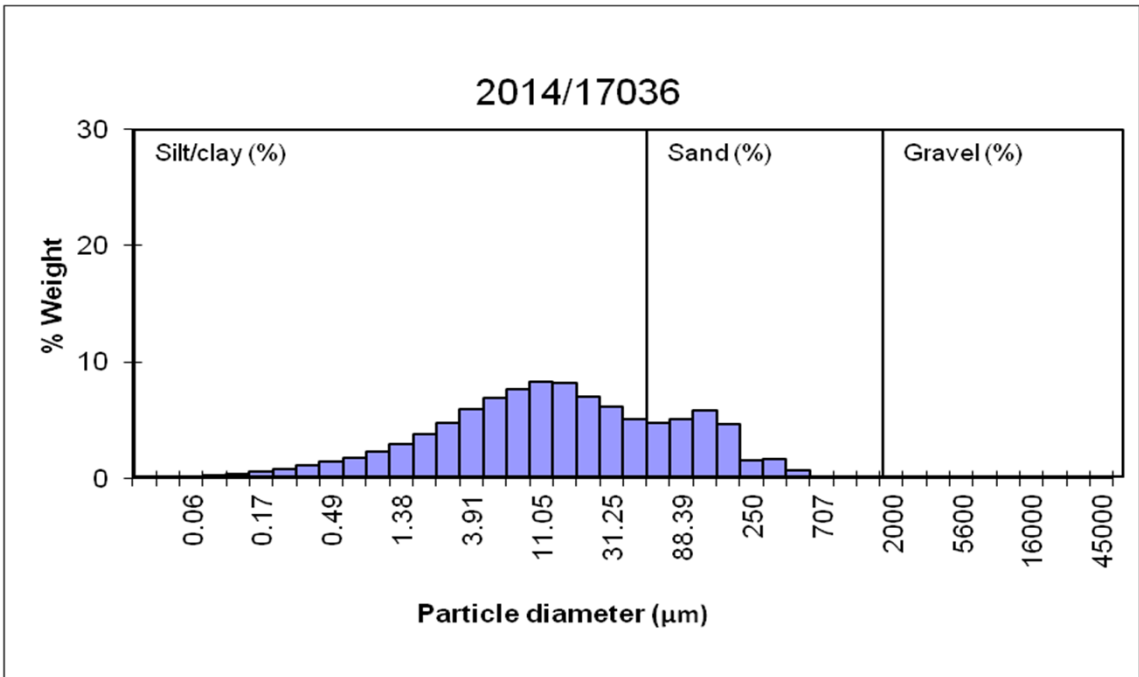
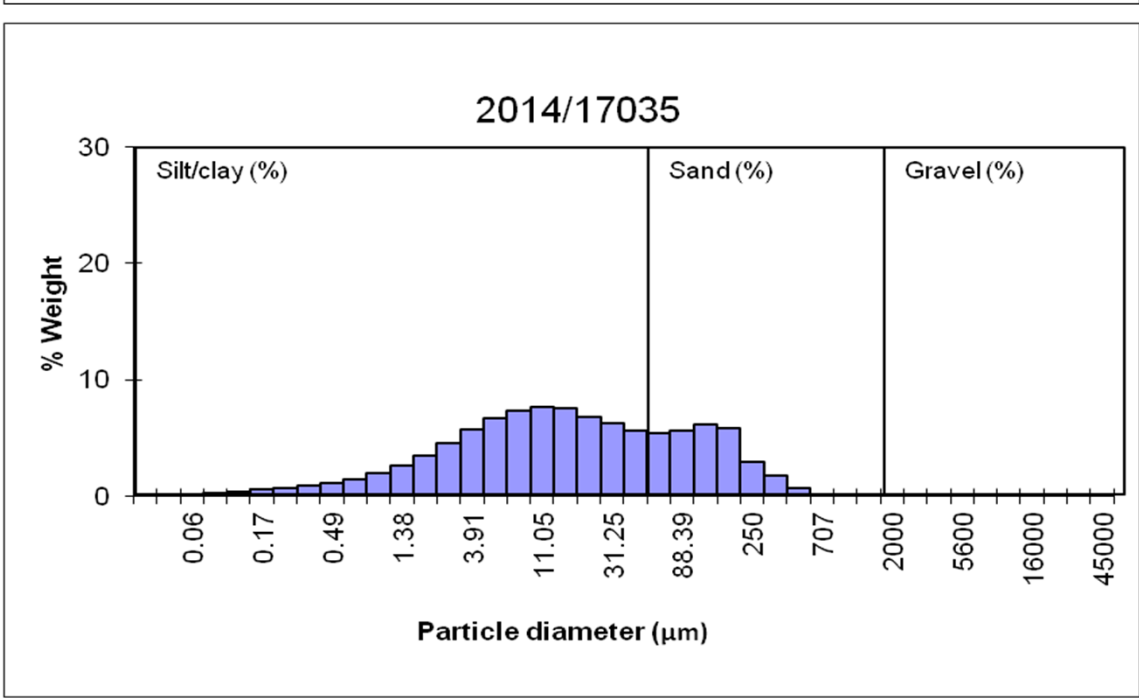


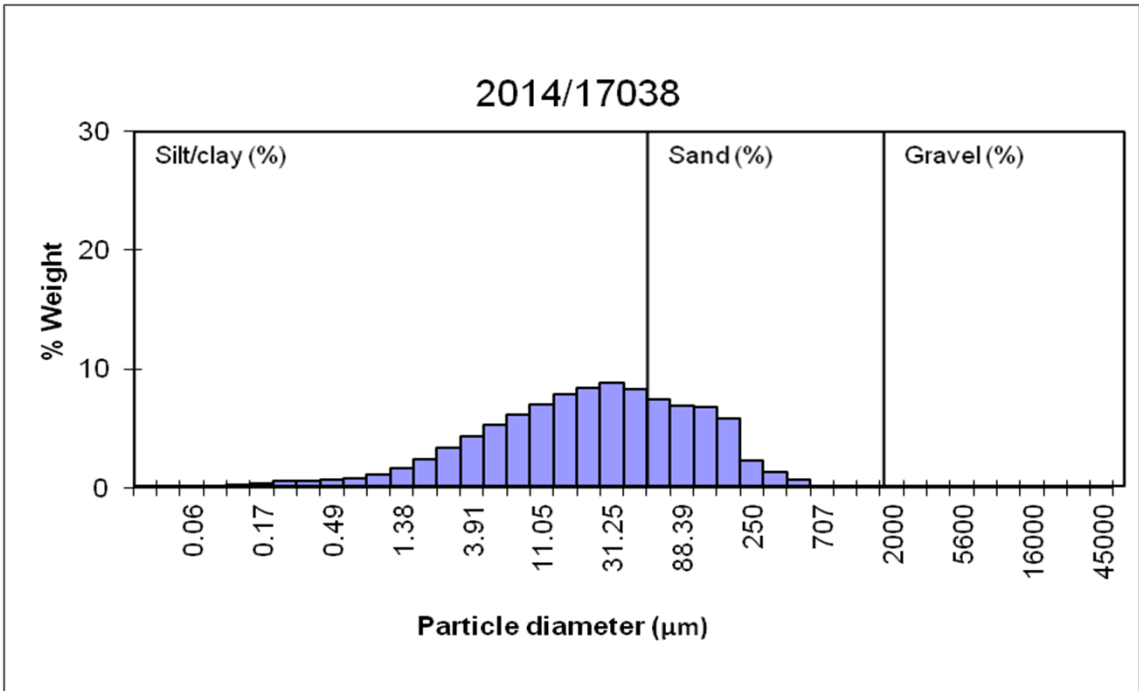
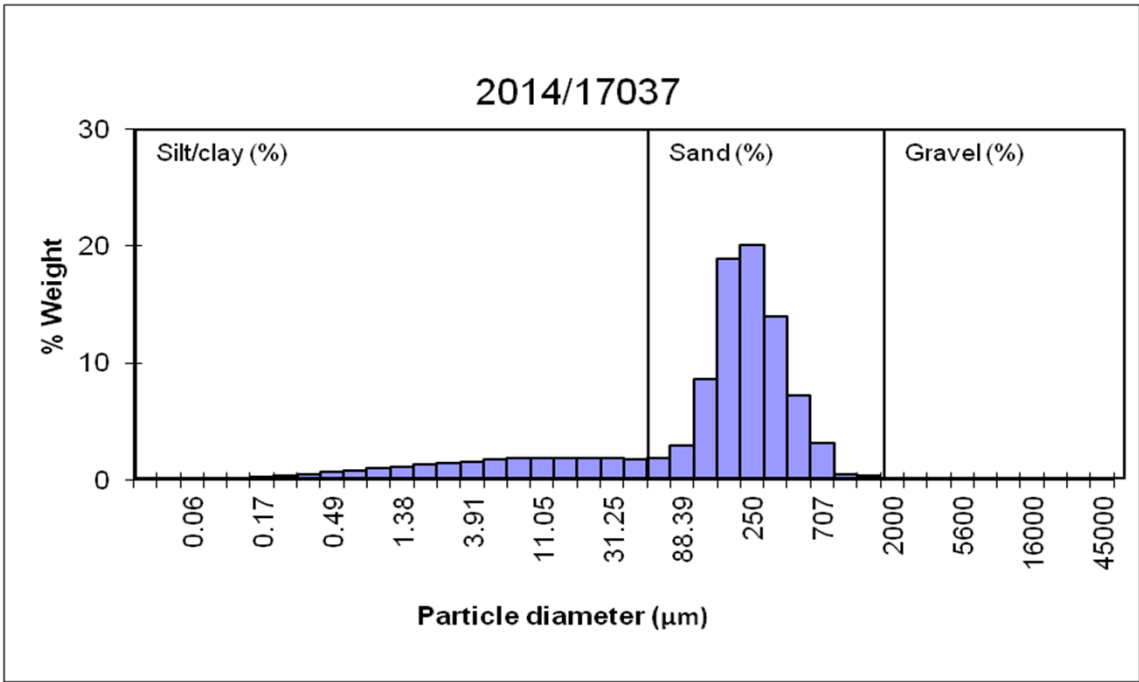
### 2014/17033



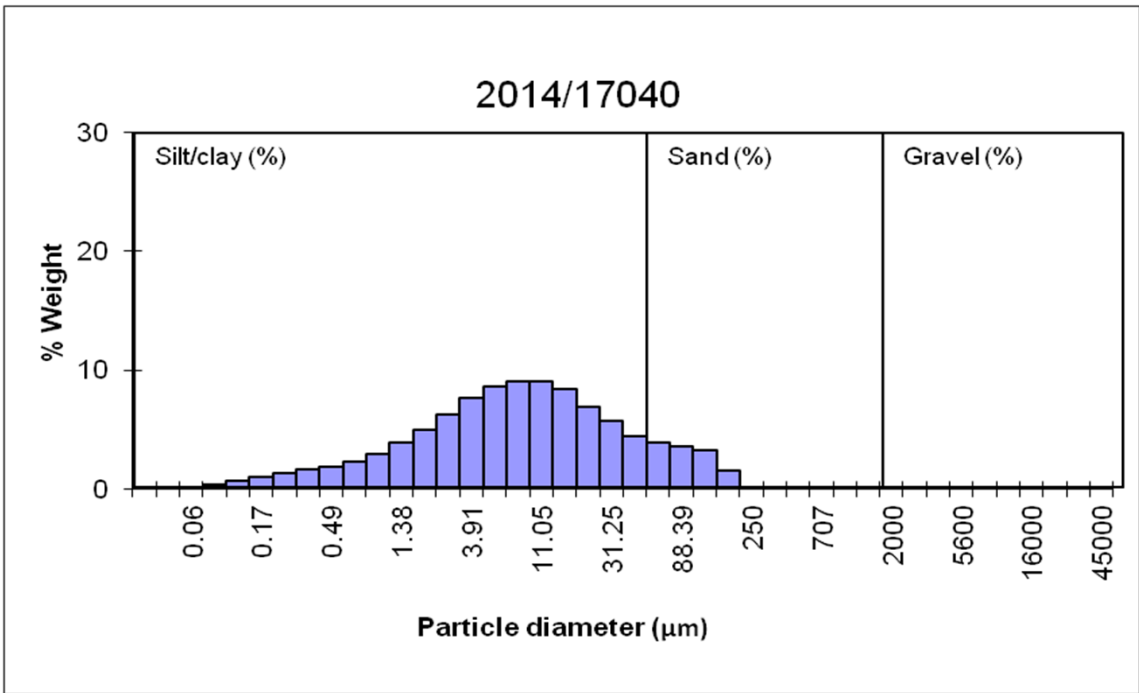
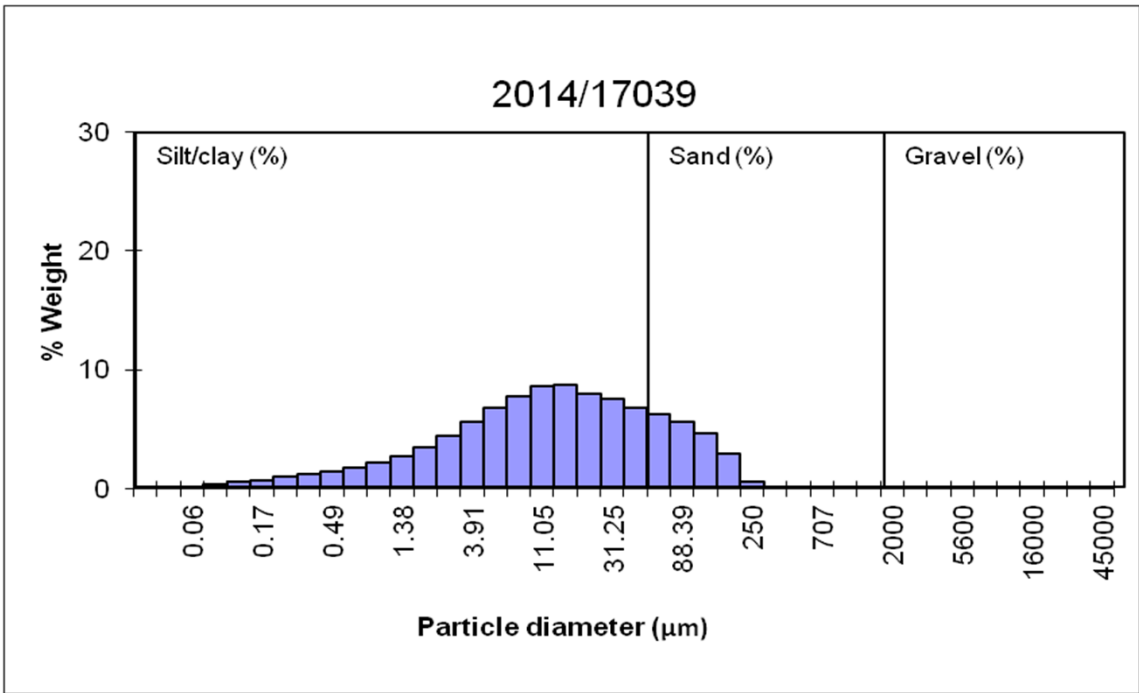
### 2014/17034

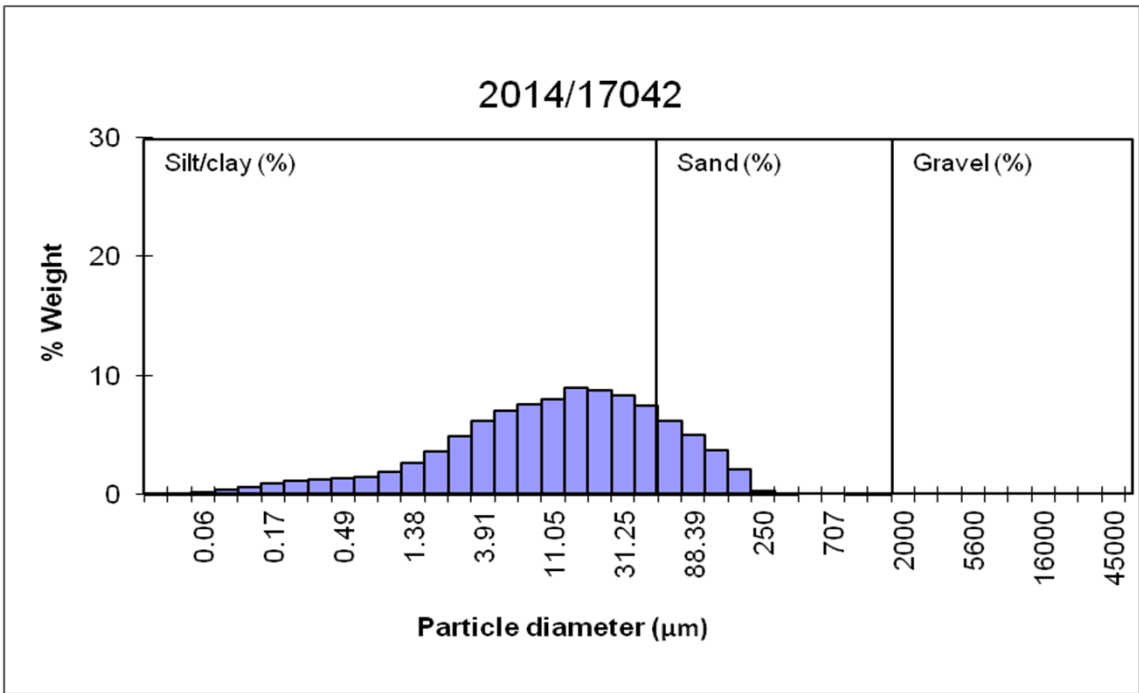
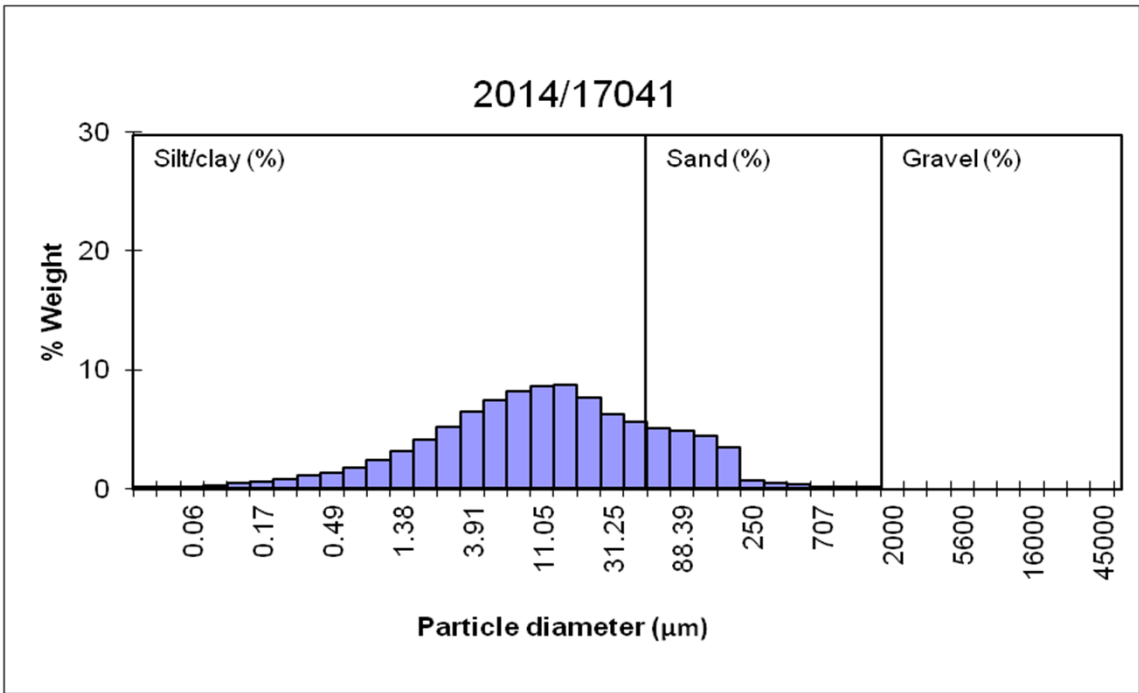


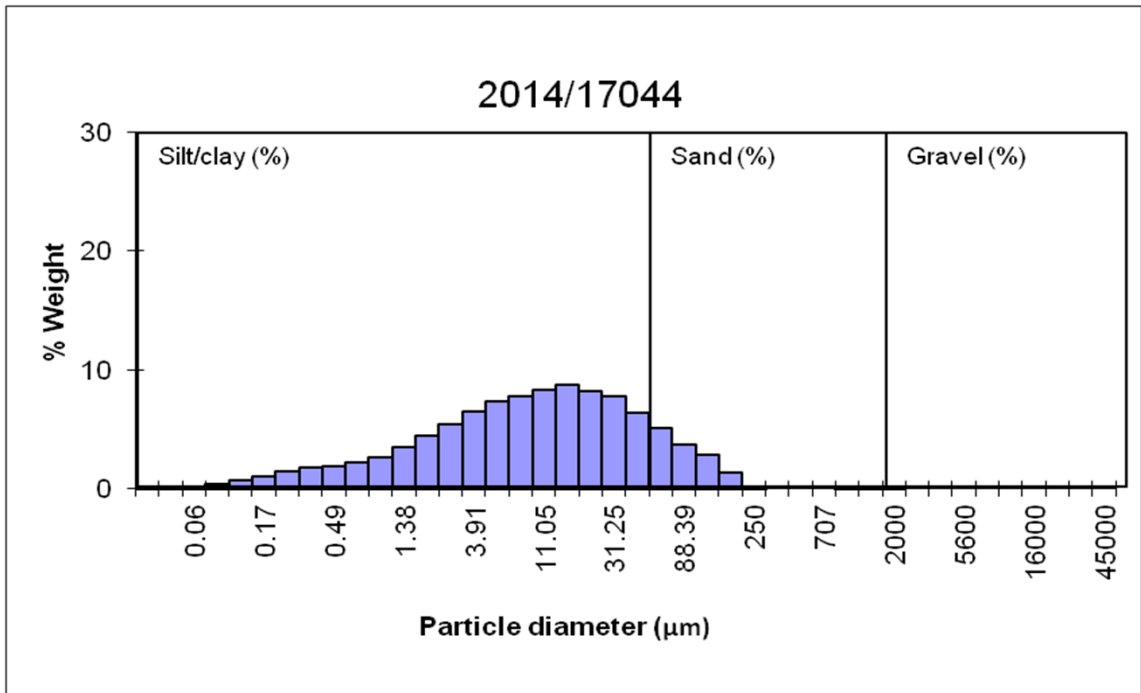
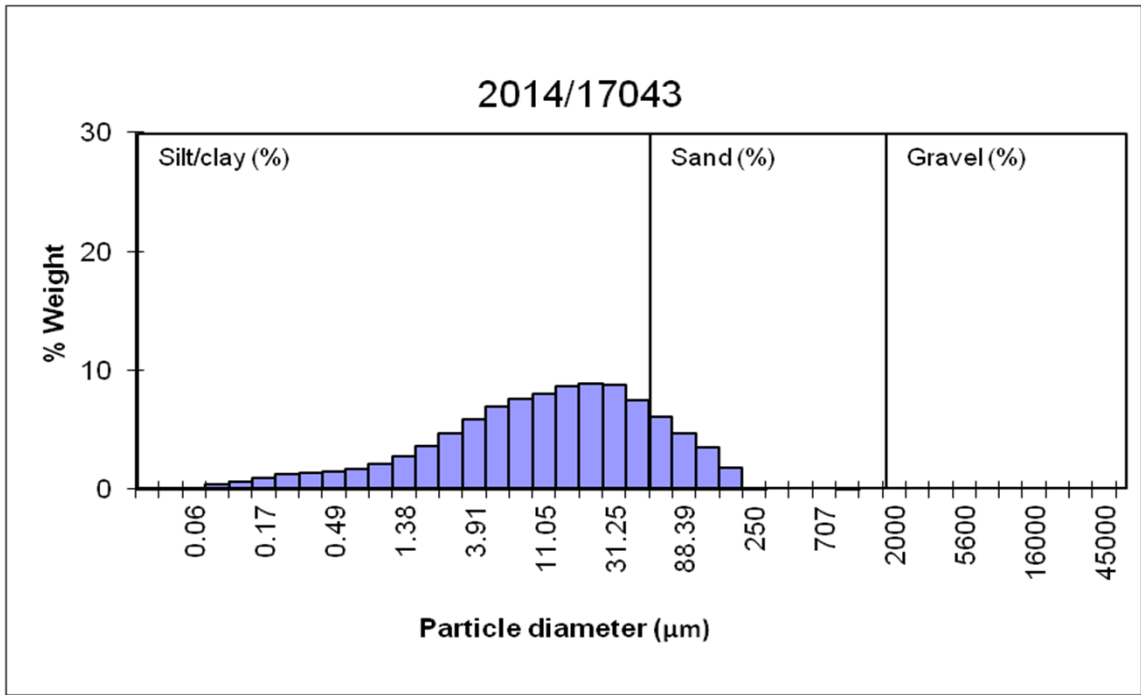


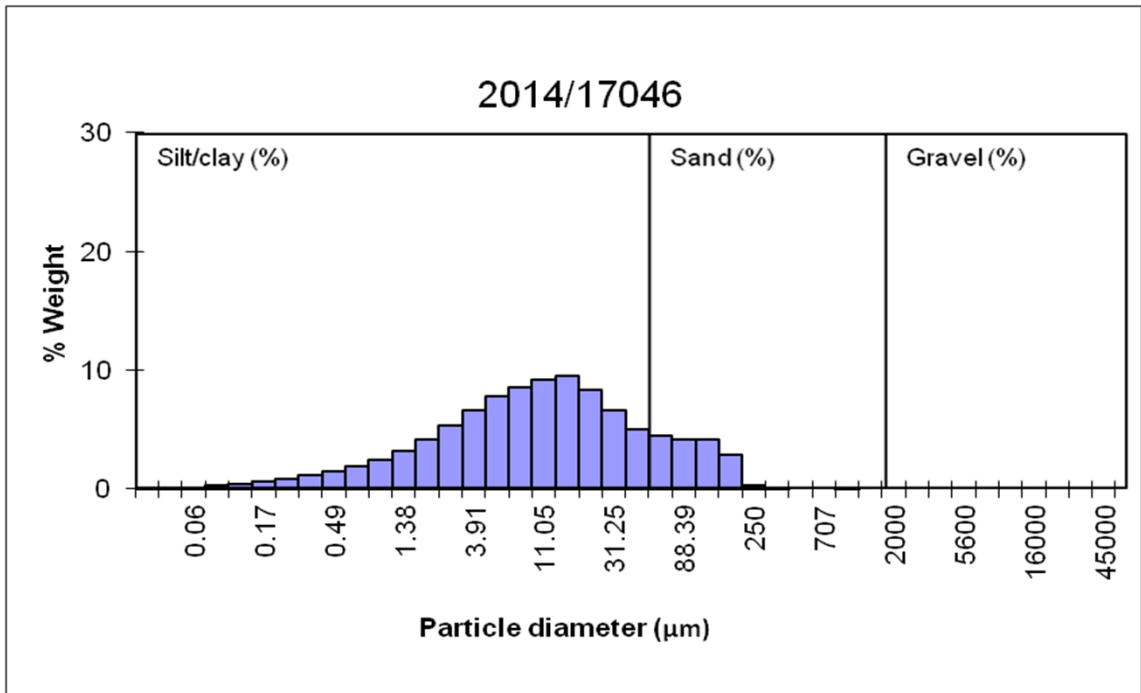
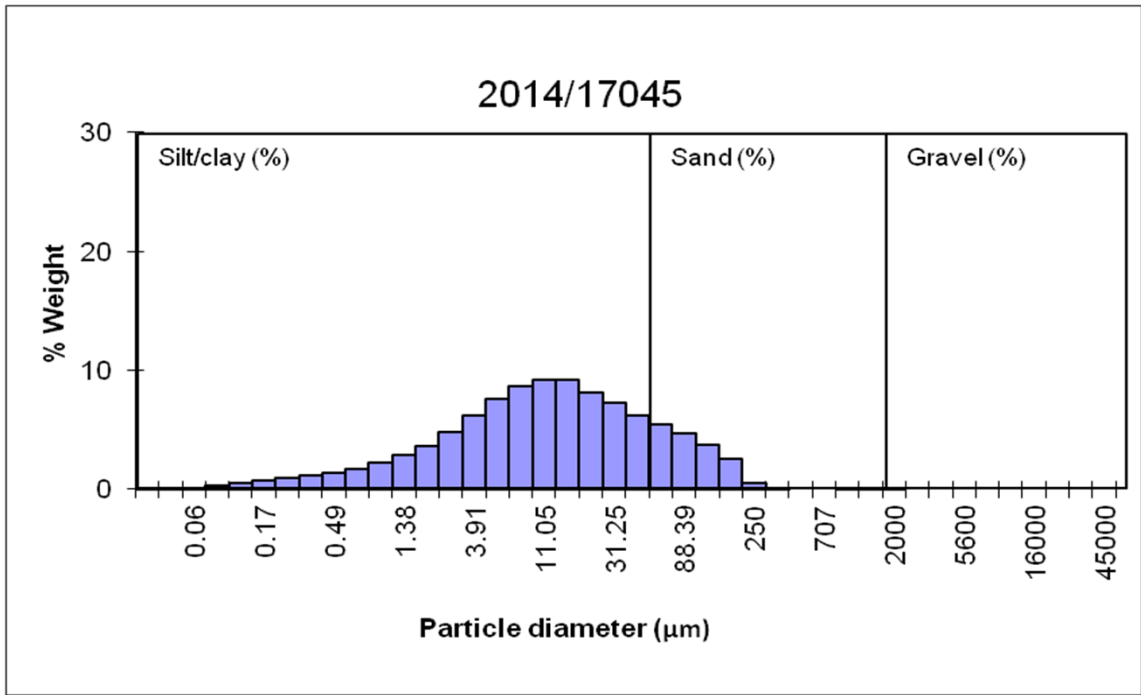


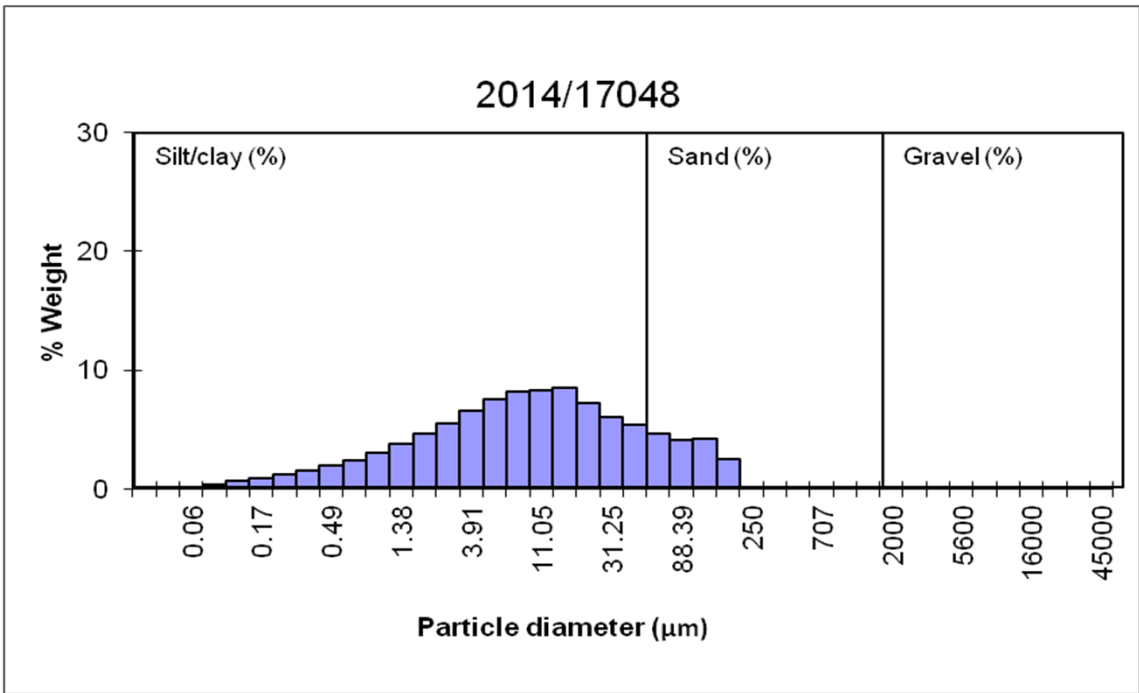
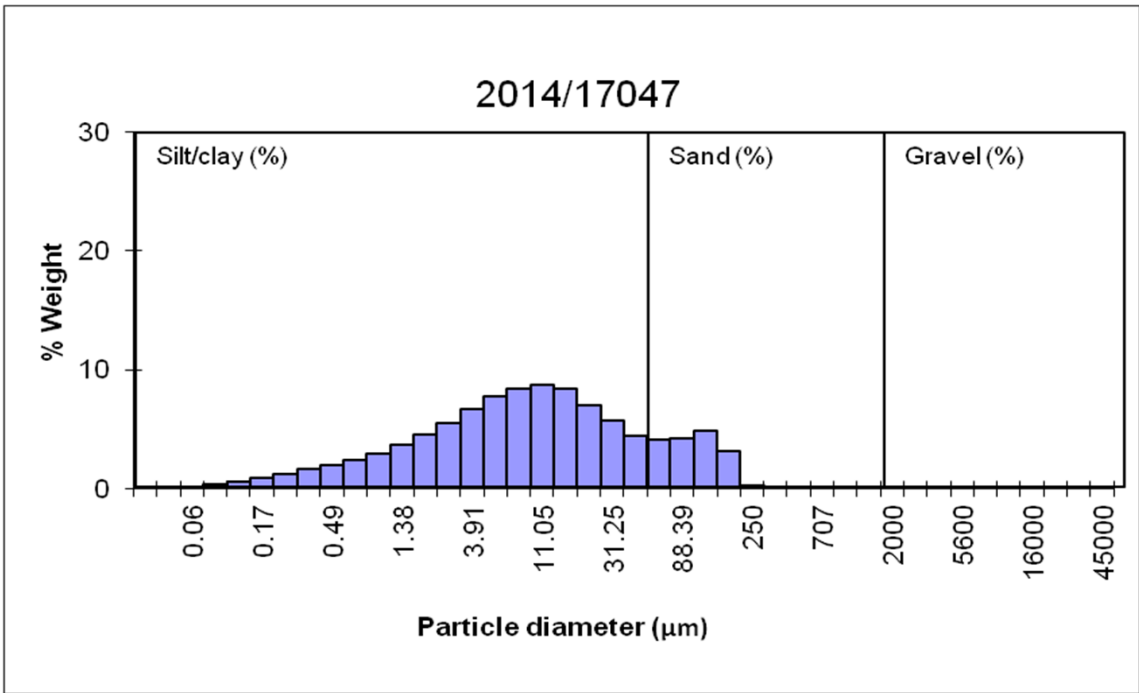












**York Potash**  
**LIMs sample number**

**DCO/2014/00002/A**  
**Sample site/sites**

**Visual description**

2014/17019	Sample 1+5	Thick, sticky, dark brown, sandy mud containing some organic fragments.
2014/17020	Sample 2+6	Thick, sticky, dark brown, slightly gravelly (1 coal? fragment), sandy mud containing some organic fragments.
2014/17021	Sample 4	Thick, crumbly, sticky, pale orangey-brown, sandy, mud (clay?).
2014/17022	Sample 7	Thick, dark brown, slightly sandy mud containing some organic fragments (>1mm). Sample has strong oil/fuel smell. Small sample.
2014/17023	Sample 8	Thick, sticky, dark brown/black, slightly sandy mud containing some organic fragments. Sample has strong oil/fuel smell.
2014/17024	Sample 9	Sticky, dark brown/black, slightly sandy mud containing some organic fragments. Sample has strong oil/fuel smell.
2014/17025	Sample 10	Pale orangey brown, slightly muddy sand containing some organic fragments. Sample has strong oil/fuel smell.
2014/17026	Sample 11+28	Slightly sticky, dark brown, slightly sandy mud.
2014/17027	Sample 12	Thick, sticky, brown, slightly sandy mud.
2014/17028	Sample 13	Thick, sticky, brown, slightly sandy mud. No >1mm present.
2014/17029	Sample 14	Thick, dark brown, slightly sandy mud containing some organic fragments. Sample has strong oil/fuel smell. Small sample.
2014/17030	Sample 15	Thick, dark brown, slightly sandy mud containing some organic fragments (>1mm). Sample has strong oil/fuel smell. Small sample.
2014/17031	Sample 20	Slightly sticky, dark brown, slightly sandy mud.
2014/17032	Sample 21	Thick, sticky, brown, slightly sandy mud. Small sample.
2014/17033	Sample 22+36	Slightly sticky, dark brown, sandy mud.
2014/17034	Sample 23+37	Dark brown/black, slightly sandy mud. Sample has strong oil/fuel smell.
2014/17035	Sample 24	Dark brown/black, sandy mud. No >1mm present. Sample has strong oil/fuel smell.
2014/17036	Sample 25+39	Dark brown/black, slightly sandy mud. Sample has strong oil/fuel smell.
2014/17037	Sample 26	Thick, dark brown, slightly muddy sand. Sample has strong oil/fuel smell.
2014/17038	Sample 29	Thick, slightly sticky, dark brown/black, sandy mud.
2014/17039	Sample 30	Thick, sticky, dark brown, slightly sandy mud. Sample has strong oil/fuel smell.
2014/17040	Sample 31	Thick, sticky, dark brown/black, slightly sandy mud. Sample has strong oil/fuel smell.
2014/17041	Sample 32	Slightly sticky, dark brown/black, slightly sandy mud. Sample has strong oil/fuel smell.
2014/17042	Sample 33	Thick, sticky, dark brown, slightly sandy mud.
2014/17043	Sample 34	Thick, sticky, dark brown, slightly sandy mud.
2014/17044	Sample 35	Thick, sticky, dark brown, slightly sandy mud.
2014/17045	Sample 38	Thick, sticky, dark brown/black, slightly sandy mud containing organic fragments. Sample has strong oil/fuel smell.
2014/17046	Sample 40	Dark brown/black, slightly sandy mud. Sample has strong oil/fuel smell.
2014/17047	Sample 41	Thick, sticky, dark brown/black, slightly sandy mud. Sample has strong oil/fuel smell.
2014/17048	Sample 42	Thick, sticky, dark brown/black, slightly sandy mud. Sample has strong oil/fuel smell.

**York Potash****DCO/2014/00002/A****LIMs sample number****Sample site/sites****Organic carbon (%m/m)****Nitrogen (%m/m)**

2014/17019	Sample 1+5	9.09	0.480
2014/17020	Sample 2+6	5.49	0.260
2014/17021	Sample 4	0.26	0.080
2014/17022	Sample 7	7.94	0.380
2014/17023	Sample 8	7.75	0.410
2014/17024	Sample 9	7.40	0.240
2014/17025	Sample 10	2.23	0.090
2014/17026	Sample 11+28	6.99	0.430
2014/17027	Sample 12	7.55	0.420
2014/17028	Sample 13	6.98	0.350
2014/17029	Sample 14	7.62	0.460
2014/17030	Sample 15	7.85	0.440
2014/17031	Sample 20	6.18	0.340
2014/17032	Sample 21	6.79	0.310
2014/17033	Sample 22+36	9.47	0.470
2014/17034	Sample 23+37	8.61	0.450
2014/17035	Sample 24	7.85	0.330
2014/17036	Sample 25+39	6.52	0.320
2014/17037	Sample 26	2.73	0.110
2014/17038	Sample 29	8.08	0.520
2014/17039	Sample 30	7.63	0.330
2014/17040	Sample 31	7.50	0.340
2014/17041	Sample 32	8.20	0.370
2014/17042	Sample 33	6.45	0.350
2014/17043	Sample 34	6.56	0.360
2014/17044	Sample 35	6.66	0.320
2014/17045	Sample 38	9.02	0.450
2014/17046	Sample 40	6.42	0.310
2014/17047	Sample 41	5.71	0.230
2014/17048	Sample 42	7.35	0.310

[Blank Page]