



## EPA ENVIRONMENTAL MONITORING

MANDATORY MONITORING																		
EPA Identification point number	Type of Monitoring Point	Type of Discharge Point	How Monitored	Location Description	Detail	Volume	Pollutant											
<a href="#">Point 1: Evaporation Bay North End. Influent.</a>	Volume monitoring. Influent quality monitoring.	Volume monitoring. Influent quality monitoring.	Volume: flowmeter & cont. logger. Quality: influent sample.	Inflow to evaporation ponds "EPA 1" on site map. North end evap bay.	Test		BOD	COD	EC	N (total)	pH	P (total)	SAR	TDS	TSS			
					unit of measure	kilolitres	mg/L	mg/L	µs/cm	mg/L	pH	mg/L	SAR	mg/L	mg/L			
					frequency	continous during discharge	every 6 months											
					sampling method	flow meter & cont. logger	representative sample											
<a href="#">Point 2: Evaporation Bay South End. Effluent.</a>	Discharge to utilisation area. Volume monitoring. Effluent quality monitoring.	Discharge to utilisation area. Volume monitoring. Effluent quality monitoring.	Volume: flowmeter. Quality: effluent sample.	Outflow from evaporation ponds "EPA 2" on site map.	Test		BOD	COD	EC	N (total)	pH	P (total)	SAR	TDS	TSS			
					unit of measure	kilolitres	mg/L	mg/L	µs/cm	mg/L	pH	mg/L	SAR	mg/L	mg/L			
					frequency	continous during discharge	every 6 months											
					sampling method	flow meter	representative sample											
<a href="#">Point 3: Soil Sample Chardonnay 7</a>	Soil quality monitoring		Soil sample.	Soil control point "EPA 3" on site map.	Test		EC	Exch. Ca	Exch. Mg	Exch. K	Exch. Na	Nitrate	N (total)	pH	P (total)	K	SAR	P sorption capacity
					unit of measure	µs/cm	mmol(+)/kg	cmol(+)/kg	cmol(+)/kg	cmol(+)/kg	mg/kg	mg/kg	pH	mg/kg	mg/kg	SAR	mg/kg	
					frequency	yearly										spec. freq 1		
					sampling method	composite sample												
<a href="#">Point 4: Soil Sample Old Canada Muscat 11</a>	Soil quality monitoring		Soil sample.	Soil control point "EPA 4" on site map.	Test		EC	Exch. Ca	Exch. Mg	Exch. K	Exch. Na	Nitrate	N (total)	pH	P (total)	K	SAR	P sorption capacity
					unit of measure	µs/cm	mmol(+)/kg	cmol(+)/kg	cmol(+)/kg	cmol(+)/kg	mg/kg	mg/kg	pH	mg/kg	mg/kg	SAR	mg/kg	
					frequency	yearly										spec. freq 1		
					sampling method	composite sample												
<a href="#">Point 5: Soil Sample Red Frontignac 12</a>	Soil quality monitoring		Soil sample.	Soil control point "EPA 5" on site map.	Test		EC	Exch. Ca	Exch. Mg	Exch. K	Exch. Na	Nitrate	N (total)	pH	P (total)	K	SAR	P sorption capacity
					unit of measure	µs/cm	mmol(+)/kg	cmol(+)/kg	cmol(+)/kg	cmol(+)/kg	mg/kg	mg/kg	pH	mg/kg	mg/kg	SAR	mg/kg	
					frequency	yearly										spec. freq 1		
					sampling method	composite sample												

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						EC	Exch. Ca	Exch. Mg	Exch. K	Exch. Na	Nitrate	N (total)	pH	P (total)	K	SAR	P sorption capacity
<a href="#">Point 11: Soil Sample Old Chardonnay 5</a>	Soil quality monitoring		Soil sample.	Soil control point "EPA 11" on site map.	Test	EC	Exch. Ca	Exch. Mg	Exch. K	Exch. Na	Nitrate	N (total)	pH	P (total)	K	SAR	P sorption capacity
					unit of measure	µs/cm	mmol(+)/kg	cmol(+)/kg	cmol(+)/kg	cmol(+)/kg	mg/kg	mg/kg	pH	mg/kg	mg/kg	SAR	mg/kg
					frequency; sampling method	yearly; composite sample											

EPA Identification point number	Type of Monitoring Point	Type of Discharge Point	How Monitored	Location Description	Detail	<a href="#">Standing Water Level</a>	Pollutant										
							ammonia	Ca	EC	Mg	Nitrate N	N (total)	pH	P (total)	K	Na	
<a href="#">Point 7: Piezometer Red Frontignac Row 1</a>	Groundwater quality monitoring. Standing water level monitoring		Groundwater sample. Groundwater level m'mnt.	Soil control point "EPA 7" on site map.	Test		ammonia	Ca	EC	Mg	Nitrate N	N (total)	pH	P (total)	K	Na	
					unit of measure	metres	mg/L	mg/L	µs/cm	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L	
					frequency	every 6 months	yearly										
					sampling method	inspection	representative sample										

EPA Identification point number	Type of Monitoring Point	Type of Discharge Point	How Monitored	Location Description	Detail	<a href="#">Standing Water Level</a>	Pollutant										
							ammonia	Ca	EC	Mg	Nitrate N	N (total)	pH	P (total)	K	Na	
<a href="#">Point 8: Piezometer South End Lined Dam</a>	Groundwater quality monitoring. Standing water level monitoring		Groundwater sample. Groundwater level m'mnt.	Soil control point "EPA 8" on site map.	Test		ammonia	Ca	EC	Mg	Nitrate N	N (total)	pH	P (total)	K	Na	
					unit of measure	metres	mg/L	mg/L	µs/cm	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L	
					frequency	every 6 months	yearly										
					sampling method	inspection	representative sample										

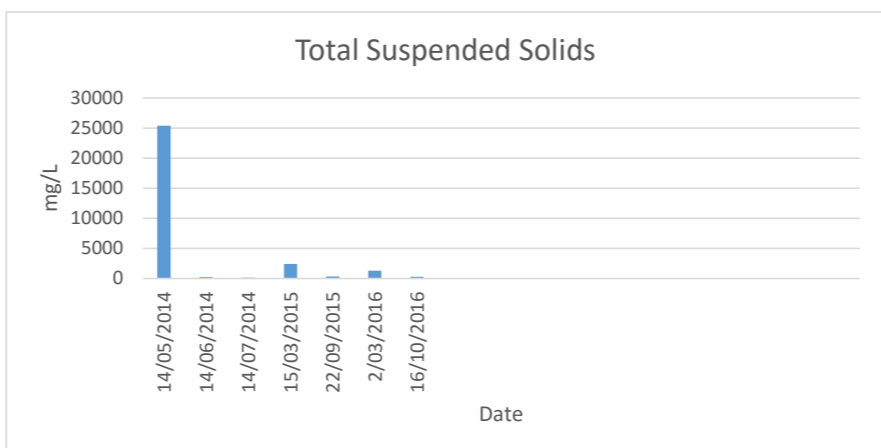
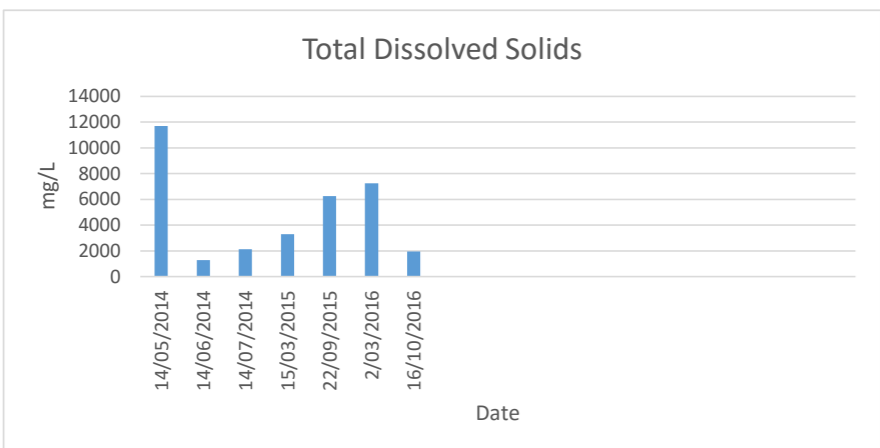
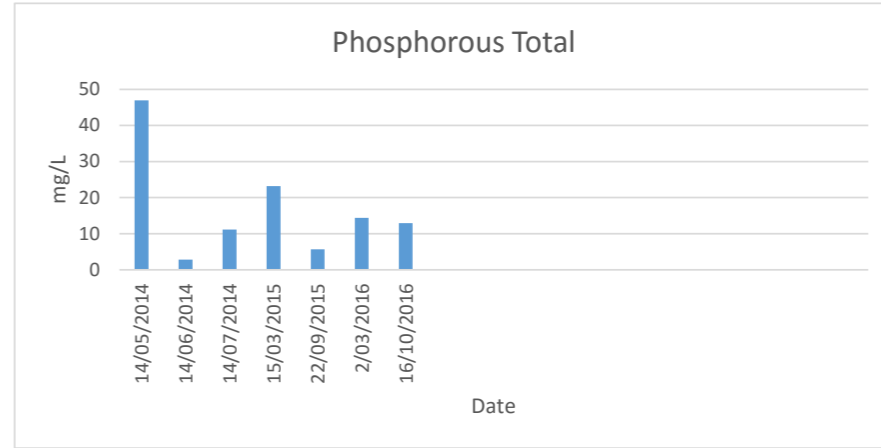
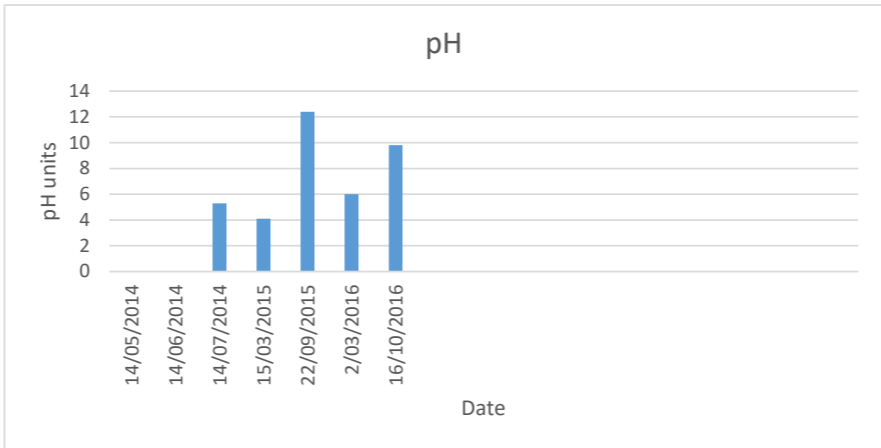
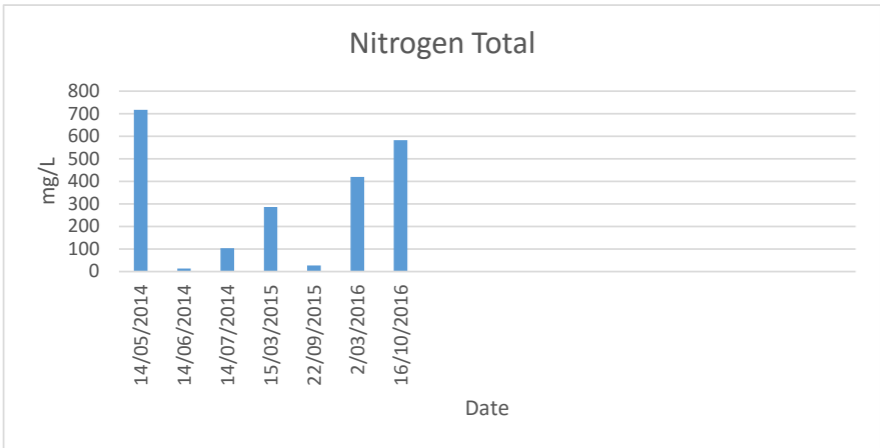
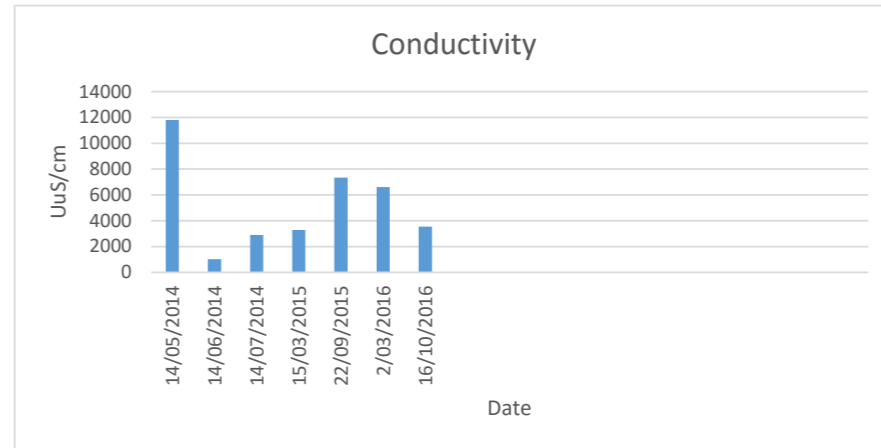
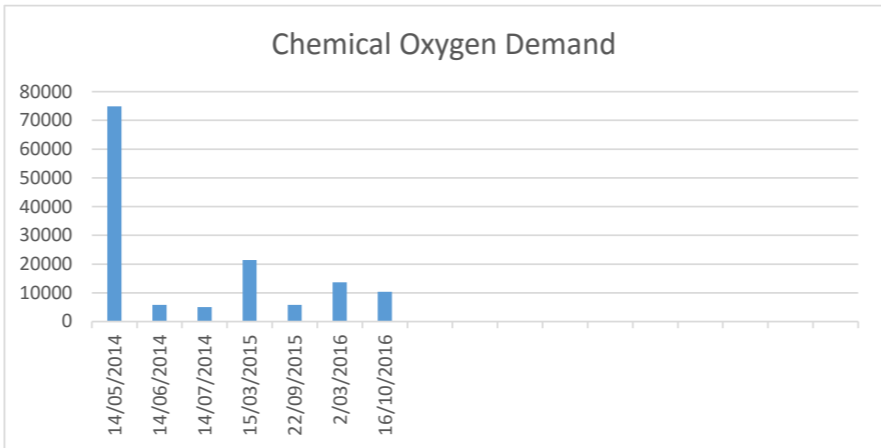
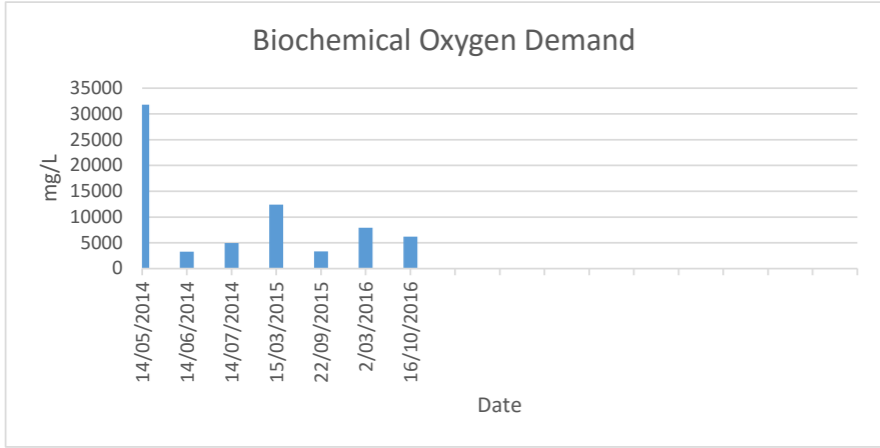
EPA Identification point number	Type of Monitoring Point	Type of Discharge Point	How Monitored	Location Description	Detail	<a href="#">Standing Water Level</a>	Pollutant										
							ammonia	Ca	EC	Mg	Nitrate N	N (total)	pH	P (total)	K	Na	
<a href="#">Point 9: Piezometer South West End Row 8 Touriga 13</a>	Groundwater quality monitoring. Standing water level monitoring		Groundwater sample. Groundwater level m'mnt.	Soil control point "EPA 9" on site map.	Test		ammonia	Ca	EC	Mg	Nitrate N	N (total)	pH	P (total)	K	Na	
					unit of measure	metres	mg/L	mg/L	µs/cm	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L	
					frequency	every 6 months	yearly										
					sampling method	inspection	representative sample										

EPA Identification point number	Type of Monitoring Point	Type of Discharge Point	How Monitored	Location Description	Detail	<a href="#">Standing Water Level</a>	Pollutant										
							ammonia	Ca	EC	Mg	Nitrate N	N (total)	pH	P (total)	K	Na	
<a href="#">Point 10: Piezometer South West Point F128 dam</a>	Groundwater quality monitoring. Standing water level monitoring		Groundwater sample. Groundwater level m'mnt.	Soil control point "EPA 10" on site map.	Test		ammonia	Ca	EC	Mg	Nitrate N	N (total)	pH	P (total)	K	Na	
					unit of measure	metres	mg/L	mg/L	µs/cm	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L	
					frequency	every 6 months	yearly										
					sampling method	inspection	representative sample										

EPA Identification point number	Type of Monitoring Point	Type of Discharge Point	How Monitored	Location Description	Detail	<a href="#">Standing Water Level</a>	Pollutant										
							ammonia	Ca	EC	Mg	Nitrate N	N (total)	pH	P (total)	K	Na	
<a href="#">Point 13: Piezometer West End Old Chardonnay 6</a>	Groundwater quality monitoring. Standing water level monitoring		Groundwater sample. Groundwater level m'mnt.	Soil control point "EPA 13" on site map.	Test		ammonia	Ca	EC	Mg	Nitrate N	N (total)	pH	P (total)	K	Na	
					unit of measure	metres	mg/L	mg/L	µs/cm	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L	
					frequency	every 6 months	yearly										
					sampling method	inspection	representative sample										

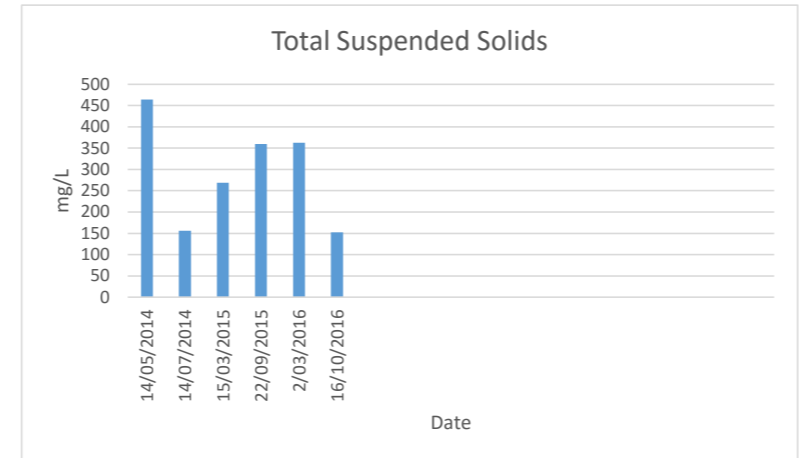
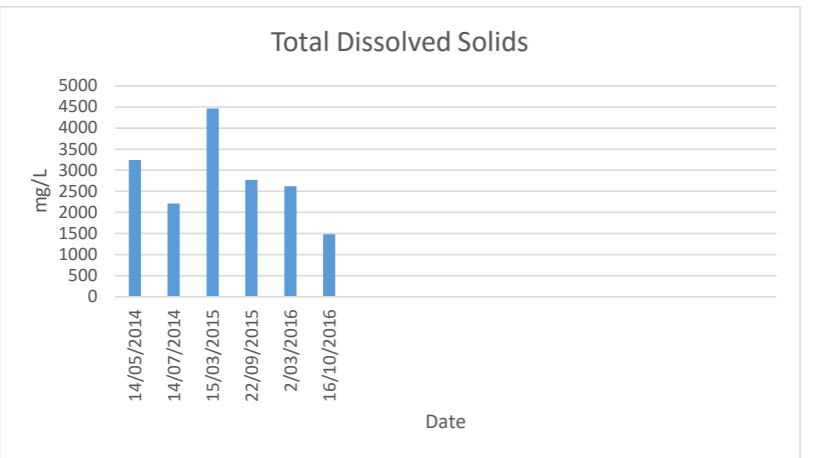
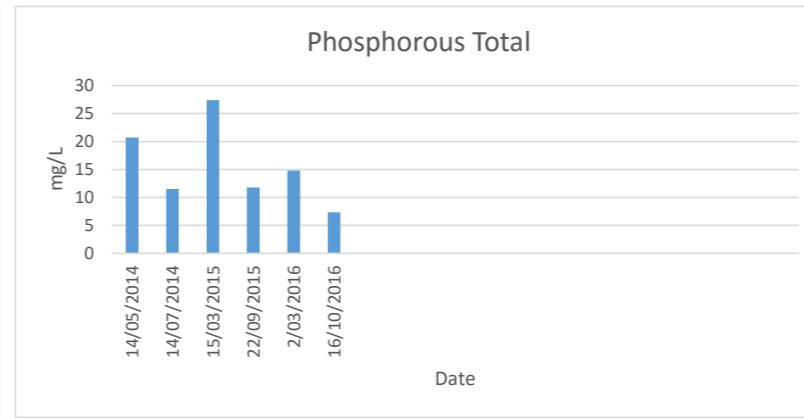
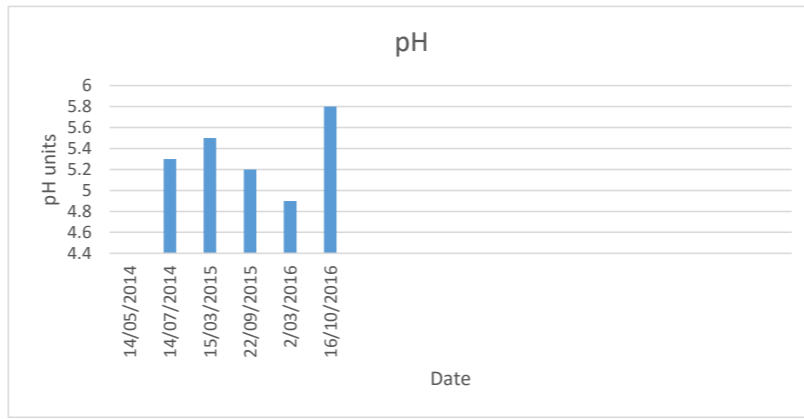
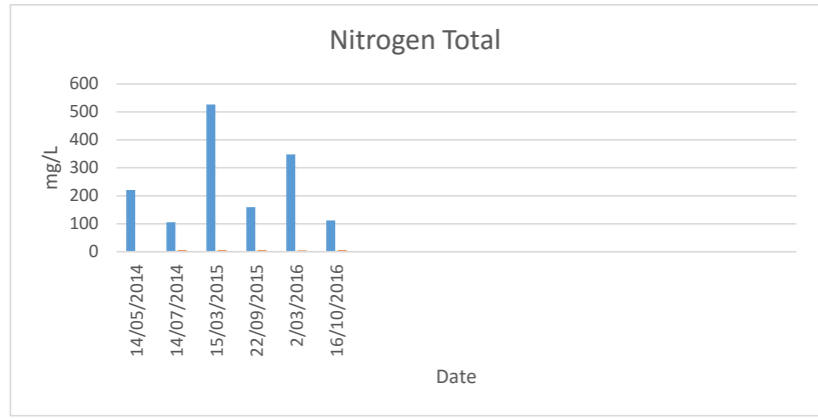
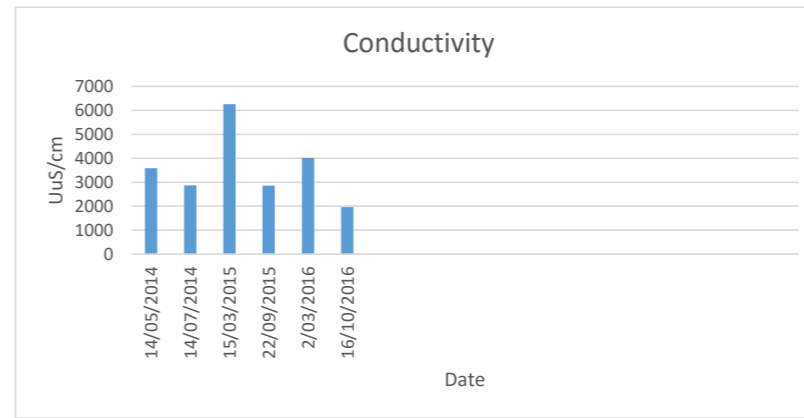
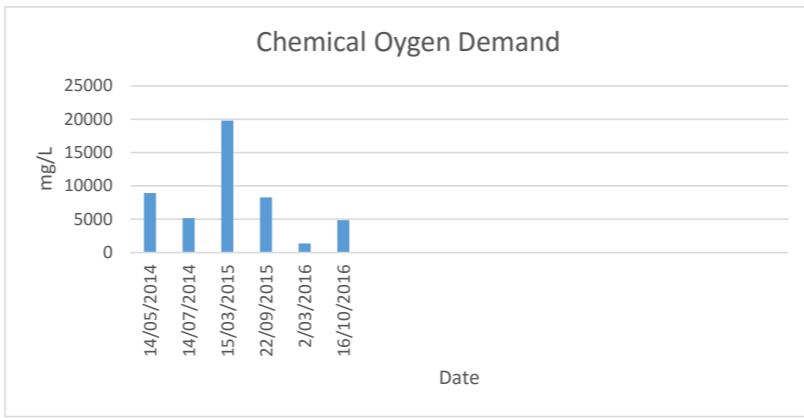
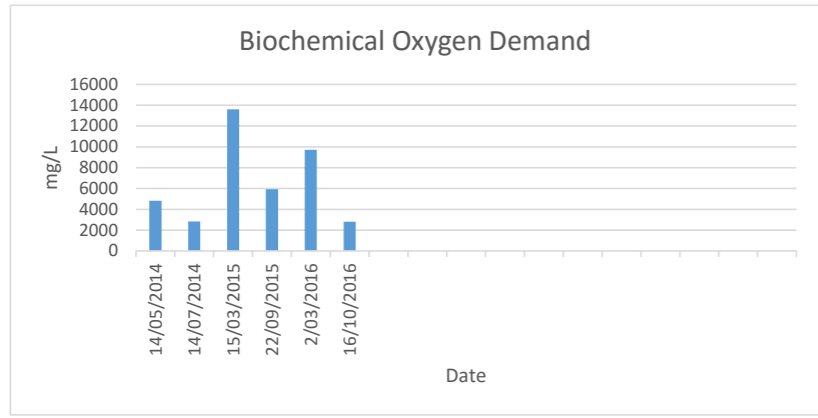
**Point 1: Influent Quality Monitoring**

Type of Test	Name of Test	Test	Units	Date																
				14/05/2014	14/06/2014	14/07/2014	15/03/2015	22/09/2015	2/03/2016	16/10/2016										
Quality monitoring	Biological oxygen demand	BOD	mg/L	31800	3260	4950	12400	3320	7920	6190										
Quality monitoring	Chemical oxygen demand	COD	mg/L	74900	5820	5060	21400	5850	13700	10400										
Quality monitoring	Electrical conductivity	EC	µs/cm	11800	1020	2900	3290	7330	6610	3540										
Quality monitoring	Nitrogen	N (total)	mg/L	717	13	103	286	27	420	582										
Quality monitoring	pH	pH	pH	n/a	n/a	5.3	4.1	12.4	6	9.8										
Quality monitoring	Phosphorus	P (total)	mg/L	47	2.8	11.2	23.2	5.69	14.4	12.9										
Quality monitoring	Sodium absorption ratio	SAR	SAR	<1	2	2	1	2	2	3										
Quality monitoring	Total dissolved solids	TDS	mg/L	11700	1280	2140	3310	6250	7240	1960										
Quality monitoring	Total suspended solids	TSS	mg/L	25400	254	144	2410	322	1310	312										



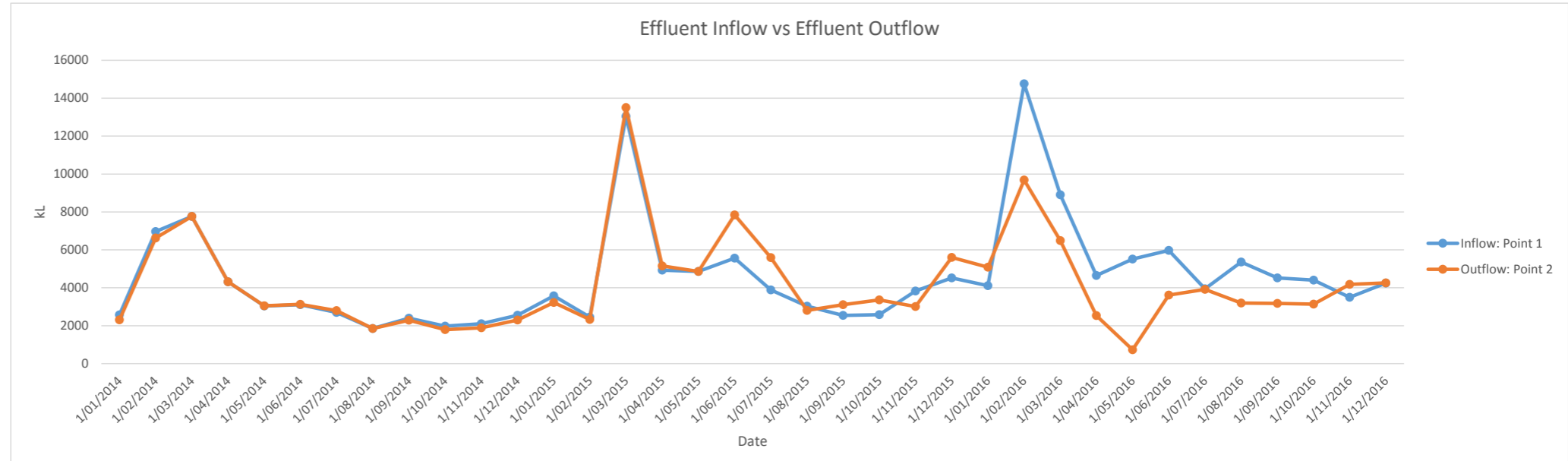
**Point 2: Effluent Quality Monitoring**

Type of Test	Name of Test	Test	Units	Date																
				14/05/2014	14/07/2014	15/03/2015	22/09/2015	2/03/2016	16/10/2016											
Quality monitoring	Biological oxygen demand	BOD	mg/L	4830	2820	13600	5920	9730	2800											
Quality monitoring	Chemical oxygen demand	COD	mg/L	8940	5160	19800	8260	1350	4860											
Quality monitoring	Electrical conductivity	EC	µs/cm	3580	2870	6260	2860	4010	1960											
Quality monitoring	Nitrogen	N (total)	mg/L	221	105	527	159	348	112											
Quality monitoring	pH	pH	pH		5.3	5.5	5.2	4.9	5.8											
Quality monitoring	Phosphorus	P (total)	mg/L	20.7	11.5	27.4	11.8	14.8	7.33											
Quality monitoring	Sodium aborption ratio	SAR	SAR	1	2	1	1	2	6											
Quality monitoring	Total dissolved solids	TDS	mg/L	3240	2210	4460	2770	2620	1480											
Quality monitoring	Total suspended solids	TSS	mg/L	464	156	269	360	363	152											



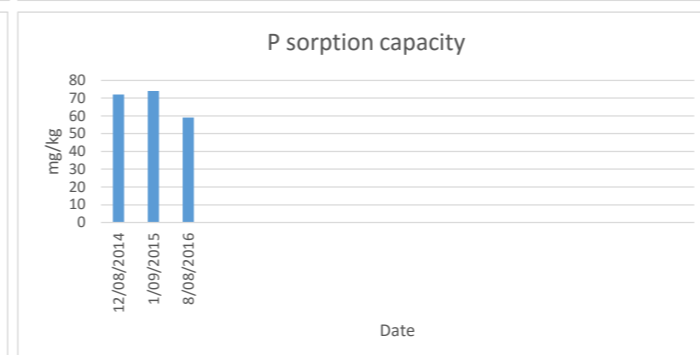
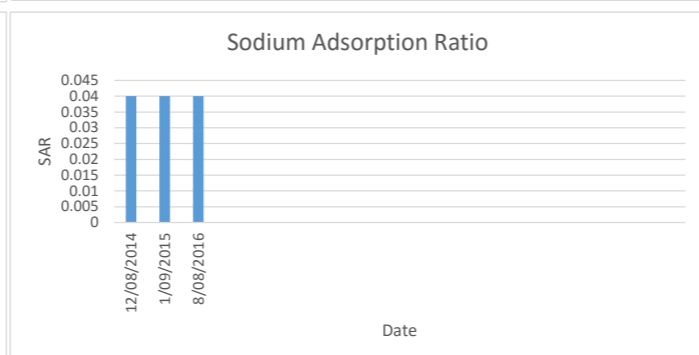
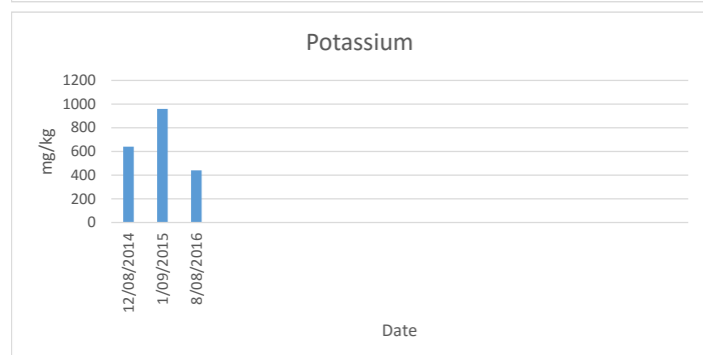
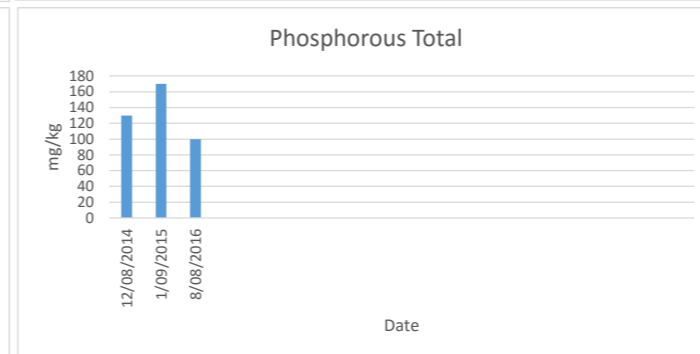
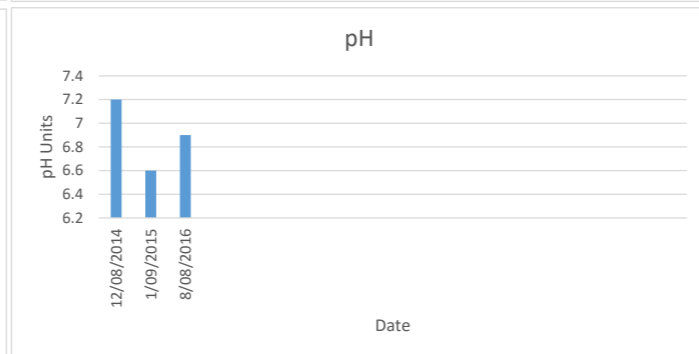
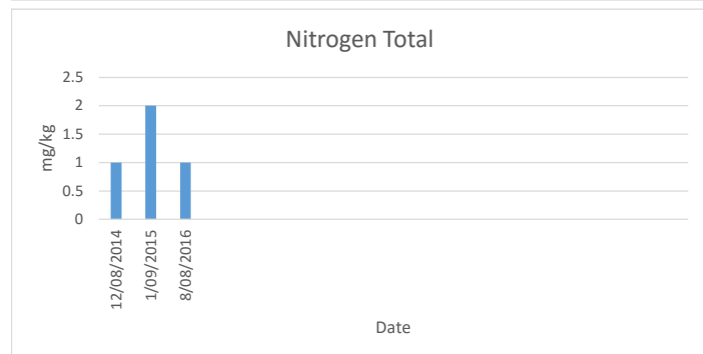
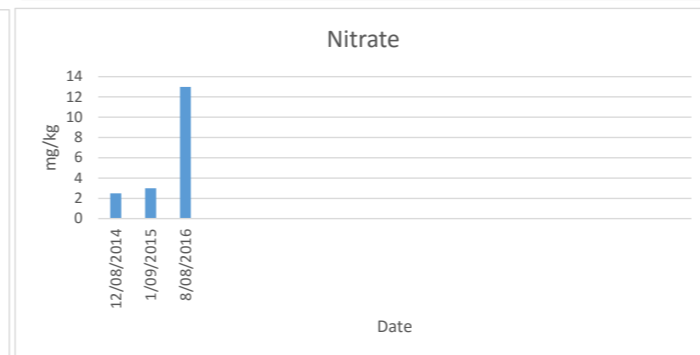
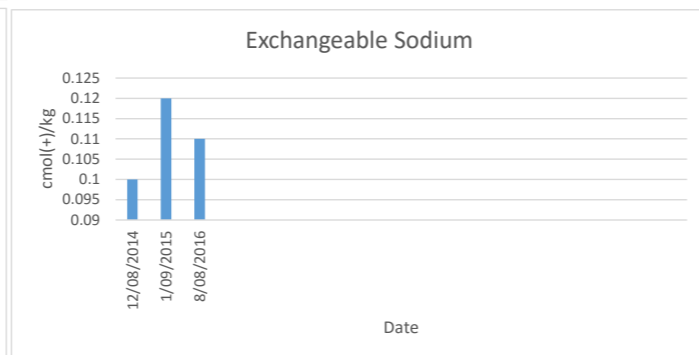
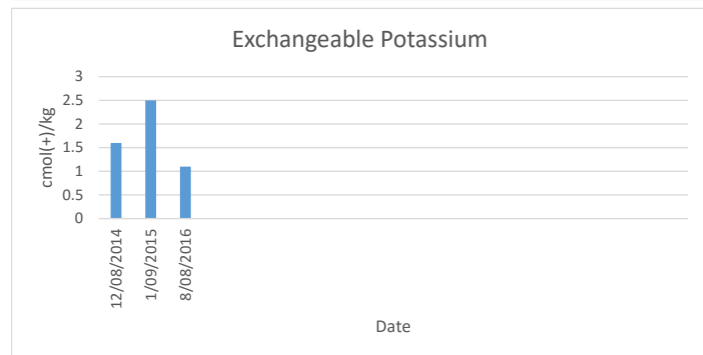
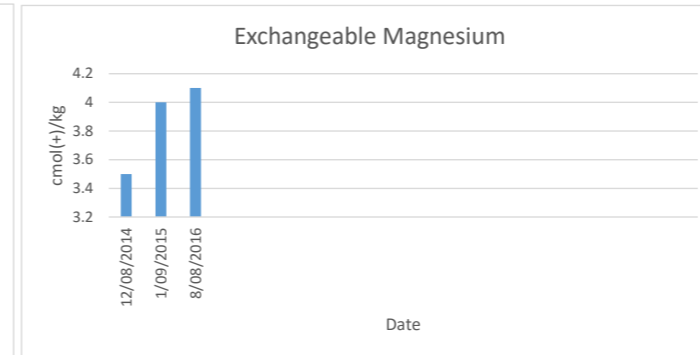
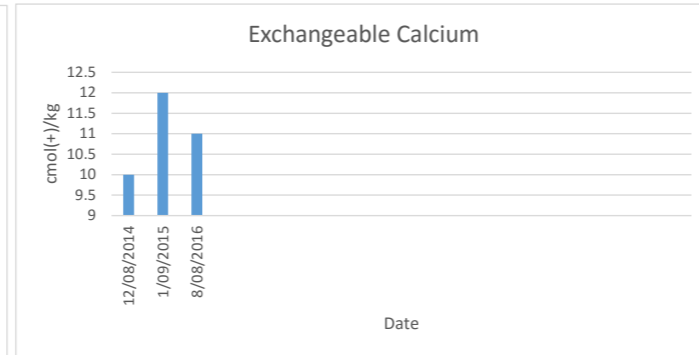
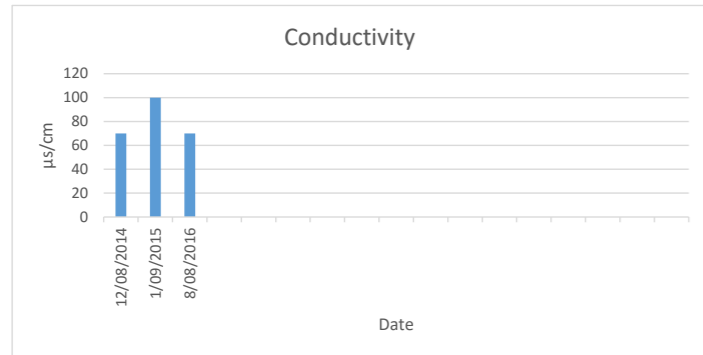
**Influent (Inflow) vs Effluent (Outflow)**

Date	Inflow: Point 1	Outflow: Point 2
27/01/2014	2566	2309
24/02/2014	6970	6622
31/03/2014	7760	7760
28/04/2014	4315	4316
26/05/2014	3043	3044
30/06/2014	3110	3122
28/07/2014	2698	2798
25/08/2014	1854	1854
29/09/2014	2391	2290
27/10/2014	1979	1787
24/11/2014	2100	1890
29/12/2014	2554	2300
26/01/2015	3578	3220
23/02/2015	2451	2330
30/03/2015	13047	13503
27/04/2015	4927	5155
25/05/2015	4858	4865
29/06/2015	5558	7839
27/07/2015	3882	5593
31/08/2015	3027	2800
28/09/2015	2543	3110
26/10/2015	2584	3360
30/11/2015	3826	3010
31/12/2015	4524	5600
31/01/2016	4110	5080
29/02/2016	14760	9680
31/03/2016	8900	6490
30/04/2016	4651	2530
31/05/2016	5515	730
30/06/2016	5971	3610
31/07/2016	3942	3914
31/08/2016	5354	3190
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31/10/2016	4398	3135
30/11/2016	3497	4176
31/12/2016	4249	4253



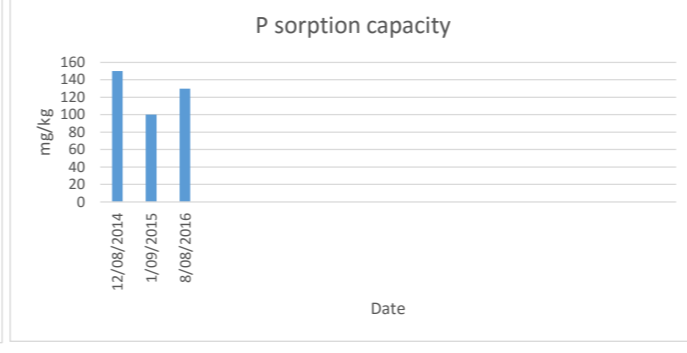
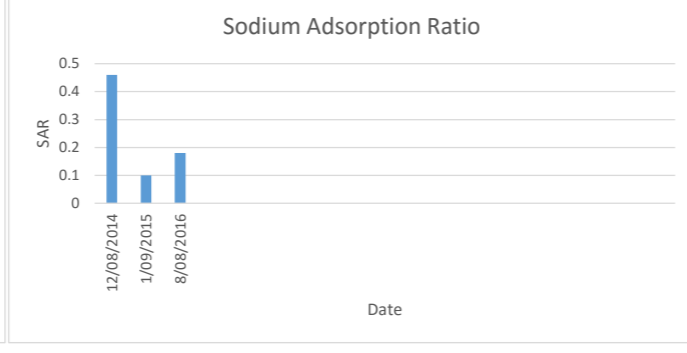
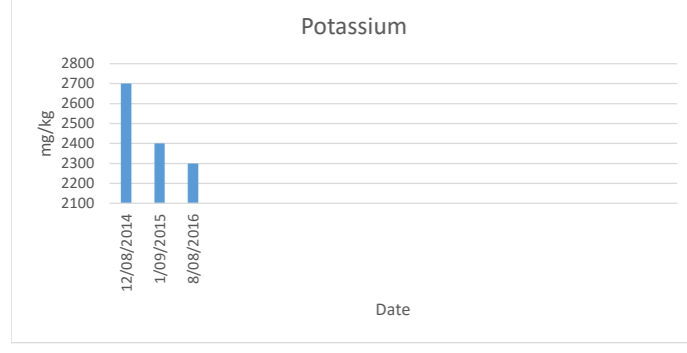
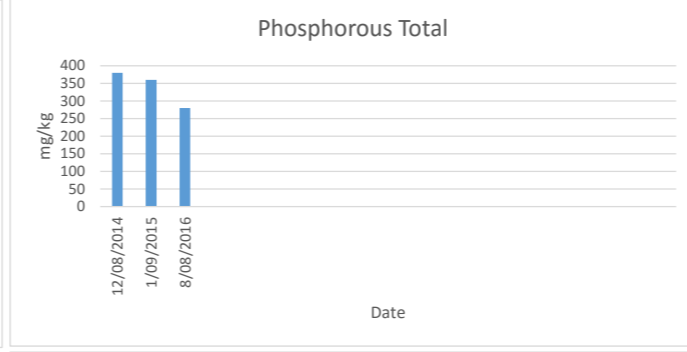
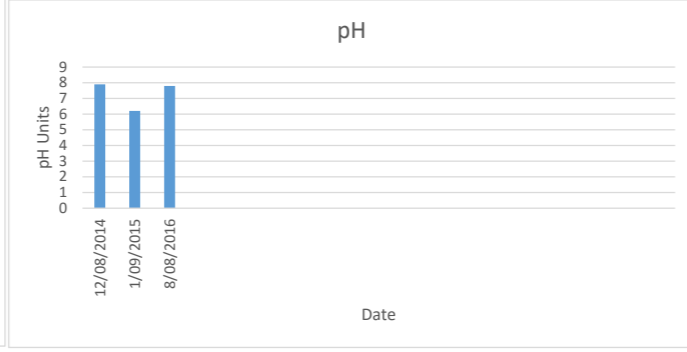
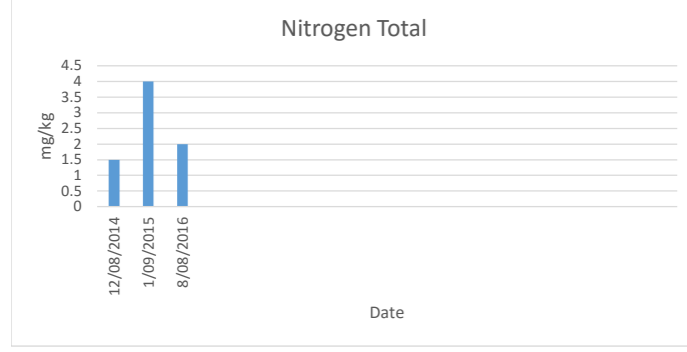
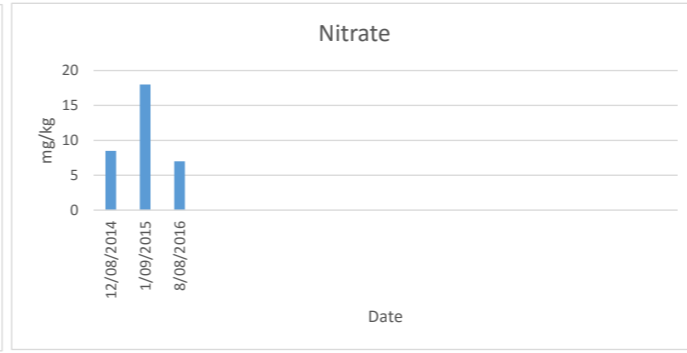
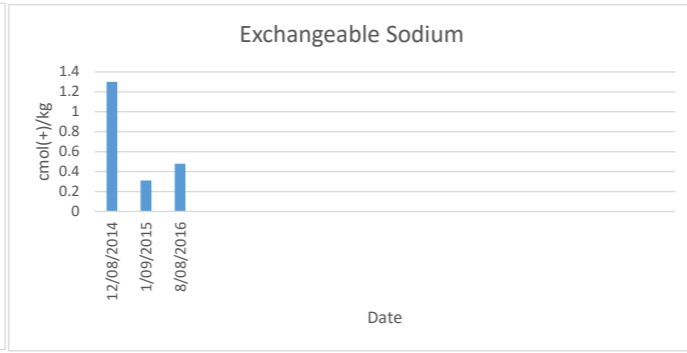
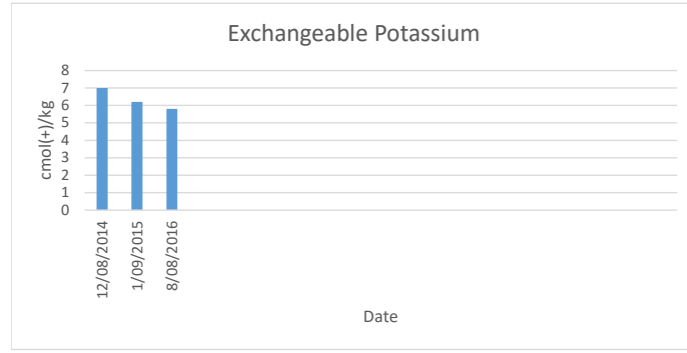
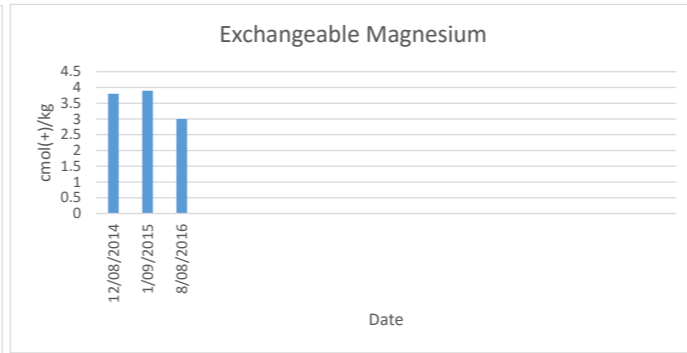
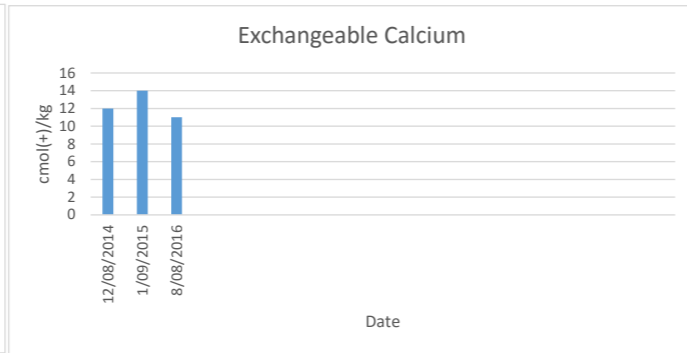
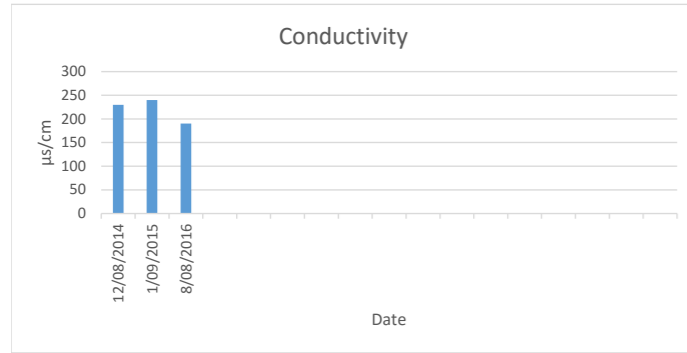
**Point 3: Soil Test Results Chardonnay 7**

Type of Test	Name of Test	Test	Units	Date															
				12/08/2014	1/09/2015	8/08/2016													
Quality monitoring	Electrical conductivity	EC	µs/cm	70	100	70													
Quality monitoring	Exchangeable calcium	Exch. Ca	cmol(+)/kg	10	12	11													
Quality monitoring	Exchangeable magnesium	Exch. Mg	cmol(+)/kg	3.5	4	4.1													
Quality monitoring	Exchangeable potassium	Exch. K	cmol(+)/kg	1.6	2.5	1.1													
Quality monitoring	Exchangeable sodium	Exch. Na	cmol(+)/kg	0.1	0.12	0.11													
Quality monitoring	Nitrate nitrogen	Nitrate	mg/kg	2.5	3	13													
Quality monitoring	Total nitrogen	N (total)	mg/kg	1	2	1													
Quality monitoring	pH	pH	pH	7.2	6.6	6.9													
Quality monitoring	Total phosphorus	P (total)	mg/kg	130	170	100													
Quality monitoring	Potassium	K	mg/kg	640	960	440													
Quality monitoring	Sodium absorption ratio	SAR	SAR	0.04	0.04	0.04													
Quality monitoring	P sorption capacity	P sorption capacity	mg/kg	72	74	59													



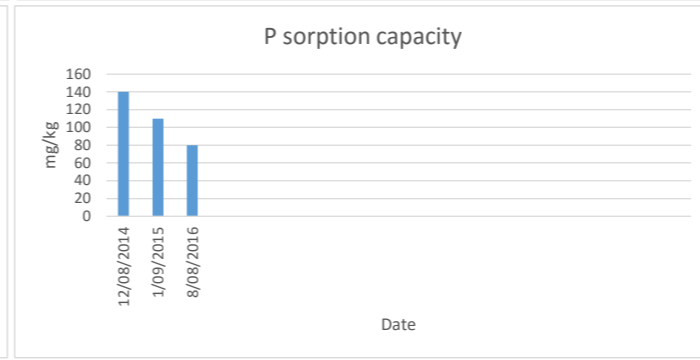
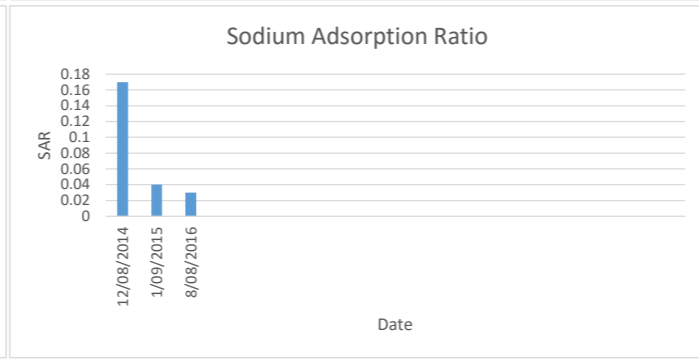
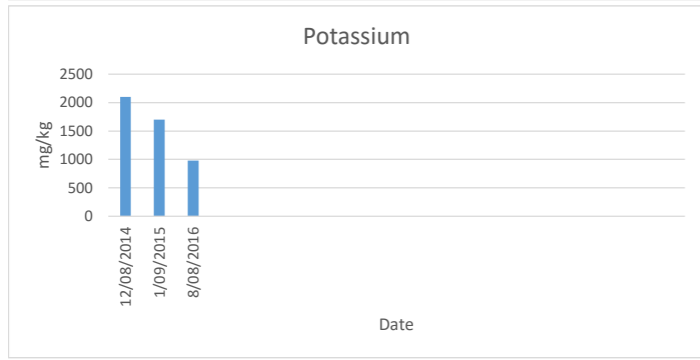
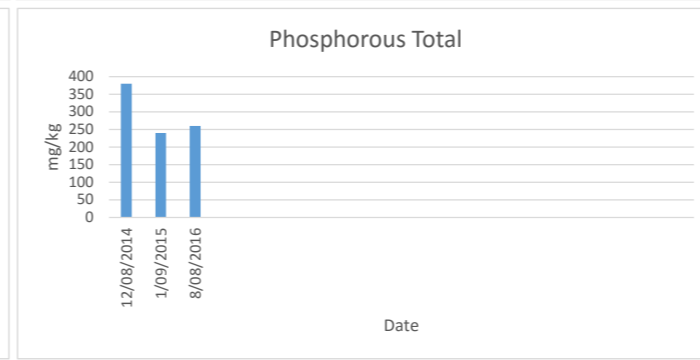
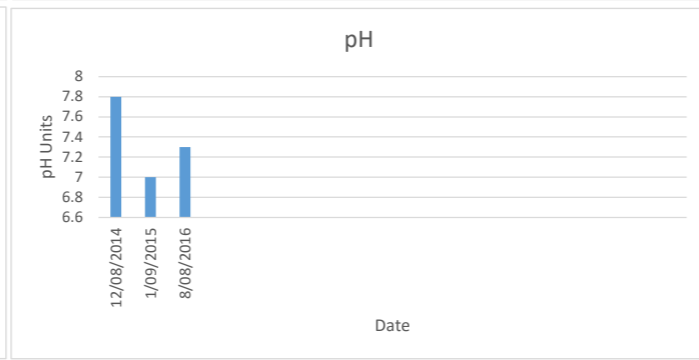
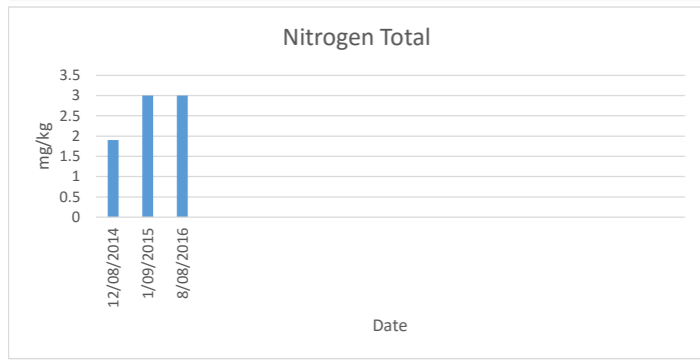
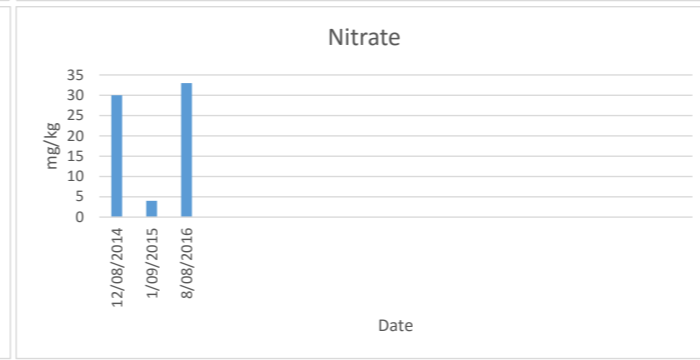
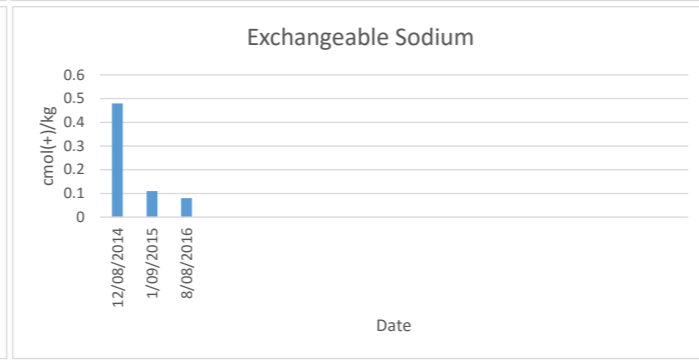
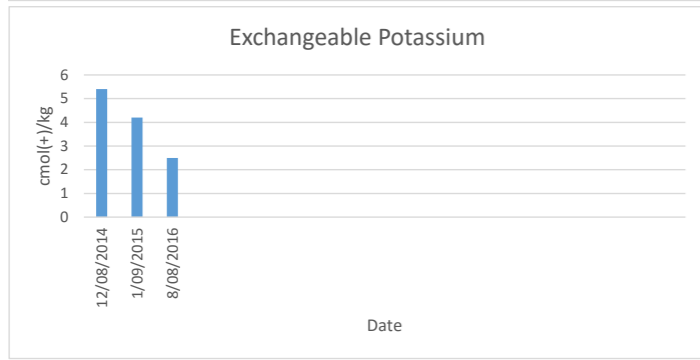
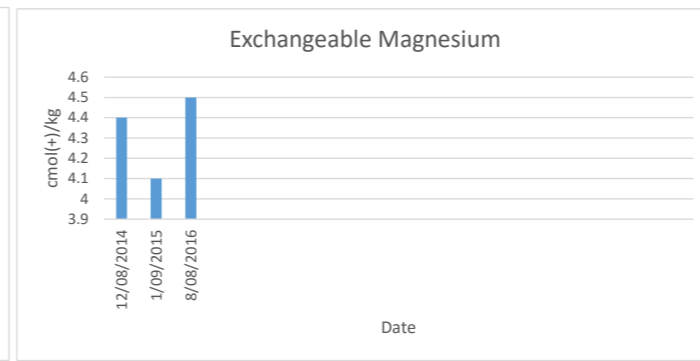
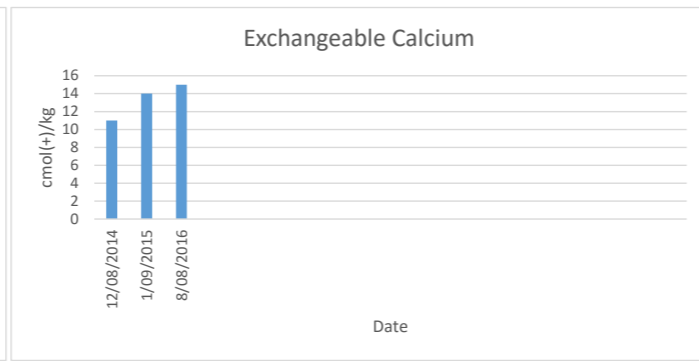
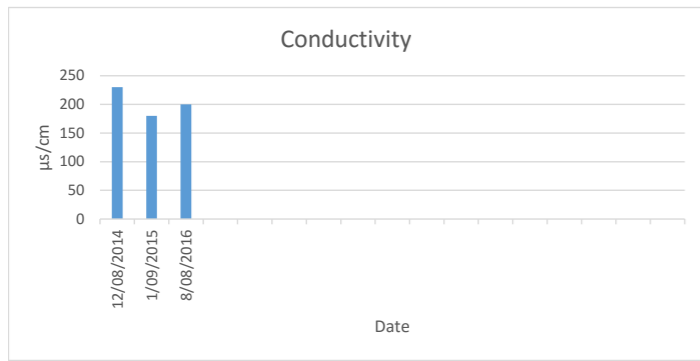
**Point 4: Soil Test Results Canada Muscat 11**

Type of Test	Name of Test	Test	Units	Date															
				12/08/2014	1/09/2015	8/08/2016													
Quality monitoring	Electrical conductivity	EC	µs/cm	230	240	190													
Quality monitoring	Exchangeable calcium	Exch. Ca	cmol(+)/kg	12	14	11													
Quality monitoring	Exchangeable magnesium	Exch. Mg	cmol(+)/kg	3.8	3.9	3													
Quality monitoring	Exchangeable potassium	Exch. K	cmol(+)/kg	7	6.2	5.8													
Quality monitoring	Exchangeable sodium	Exch. Na	cmol(+)/kg	1.3	0.31	0.48													
Quality monitoring	Nitrate nitrogen	Nitrate	mg/kg	8.5	18	7													
Quality monitoring	Total nitrogen	N (total)	mg/kg	1.5	4	2													
Quality monitoring	pH	pH	pH	7.9	6.2	7.8													
Quality monitoring	Total phosphorus	P (total)	mg/kg	380	360	280													
Quality monitoring	Potassium	K	mg/kg	2700	2400	2300													
Quality monitoring	Sodium adsorption ratio	SAR	mg/kg	0.46	0.1	0.18													
Quality monitoring	P sorption capacity	P sorption capacity	mg/kg	150	100	130													



**Point 5: Soil Test Results Red Frontignac 12**

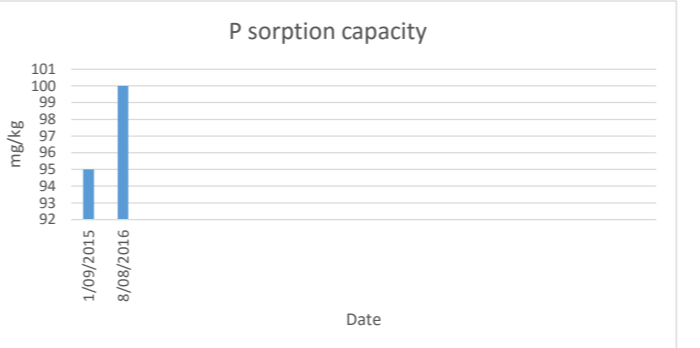
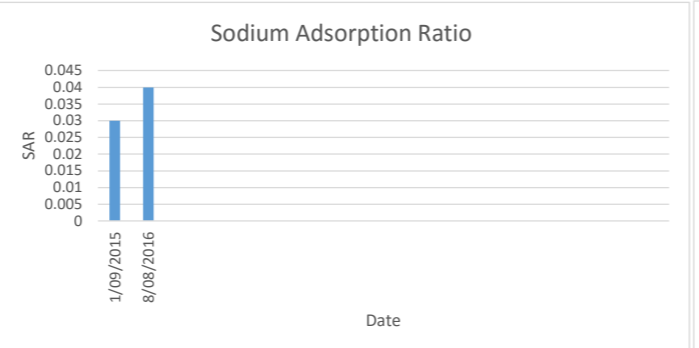
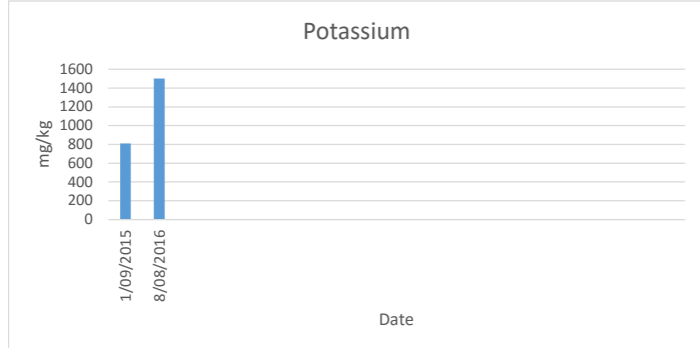
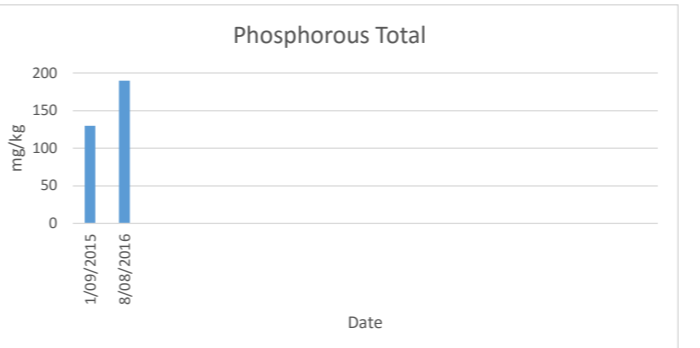
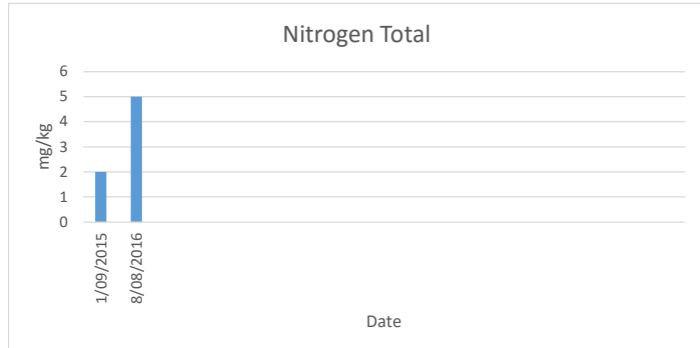
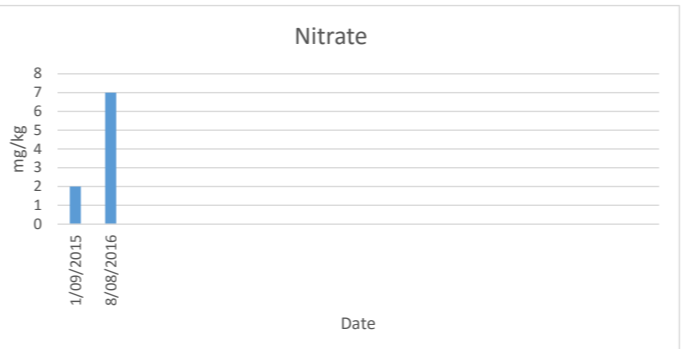
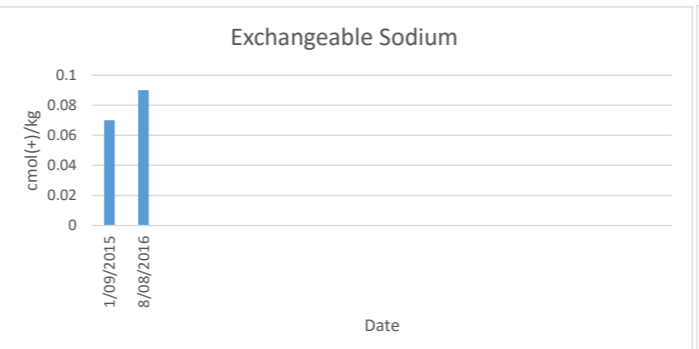
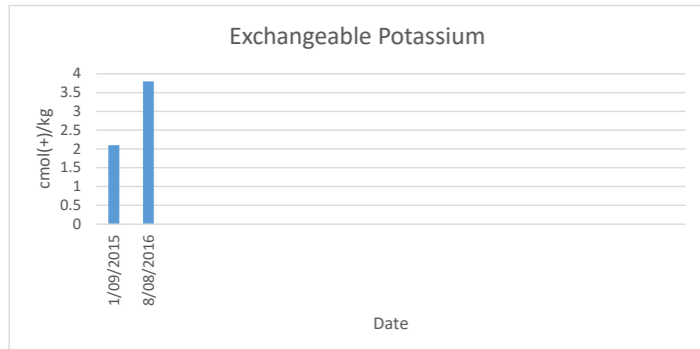
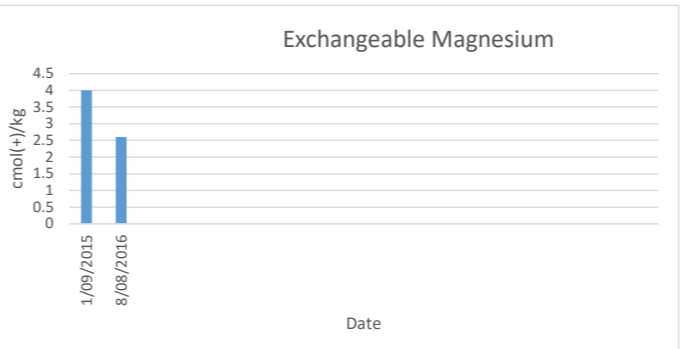
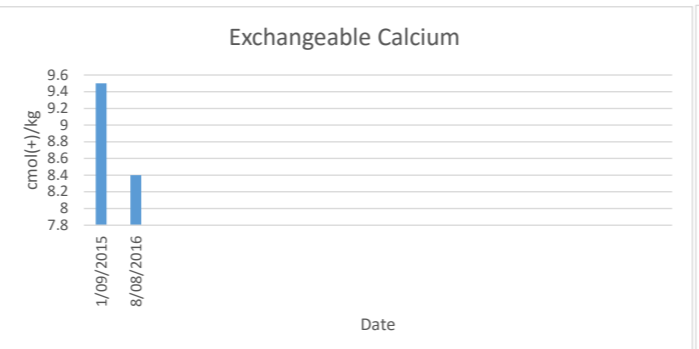
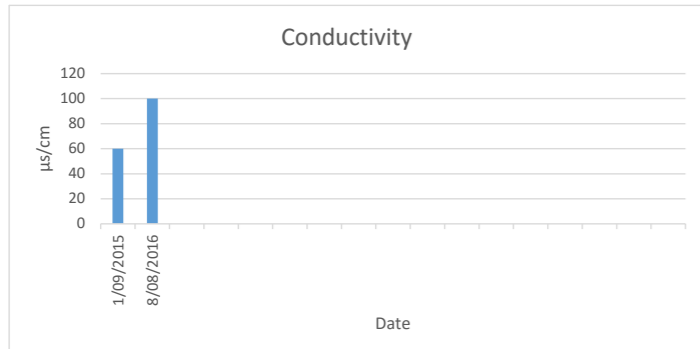
Type of Test	Name of Test	Test	Units	Date																
				12/08/2014	1/09/2015	8/08/2016														
Quality monitoring	Electrical conductivity	EC	µs/cm	230	180	200														
Quality monitoring	Exchangeable calcium	Exch. Ca	cmol(+)/kg	11	14	15														
Quality monitoring	Exchangeable magnesium	Exch. Mg	cmol(+)/kg	4.4	4.1	4.5														
Quality monitoring	Exchangeable potassium	Exch. K	cmol(+)/kg	5.4	4.2	2.5														
Quality monitoring	Exchangeable sodium	Exch. Na	cmol(+)/kg	0.48	0.11	0.08														
Quality monitoring	Nitrate nitrogen	Nitrate	mg/kg	30	4	33														
Quality monitoring	Total nitrogen	N (total)	mg/kg	1.9	3	3														
Quality monitoring	pH	pH	pH	7.8	7	7.3														
Quality monitoring	Total phosphorus	P (total)	mg/kg	380	240	260														
Quality monitoring	Potassium	K	mg/kg	2100	1700	980														
Quality monitoring	Sodium adsorption ratio	SAR	mg/kg	0.17	0.04	0.03														
Quality monitoring	P sorption capacity	P sorption capacity	mg/kg	140	110	80														





**Point 11: Soil Test Results Old Chardonnay 5**

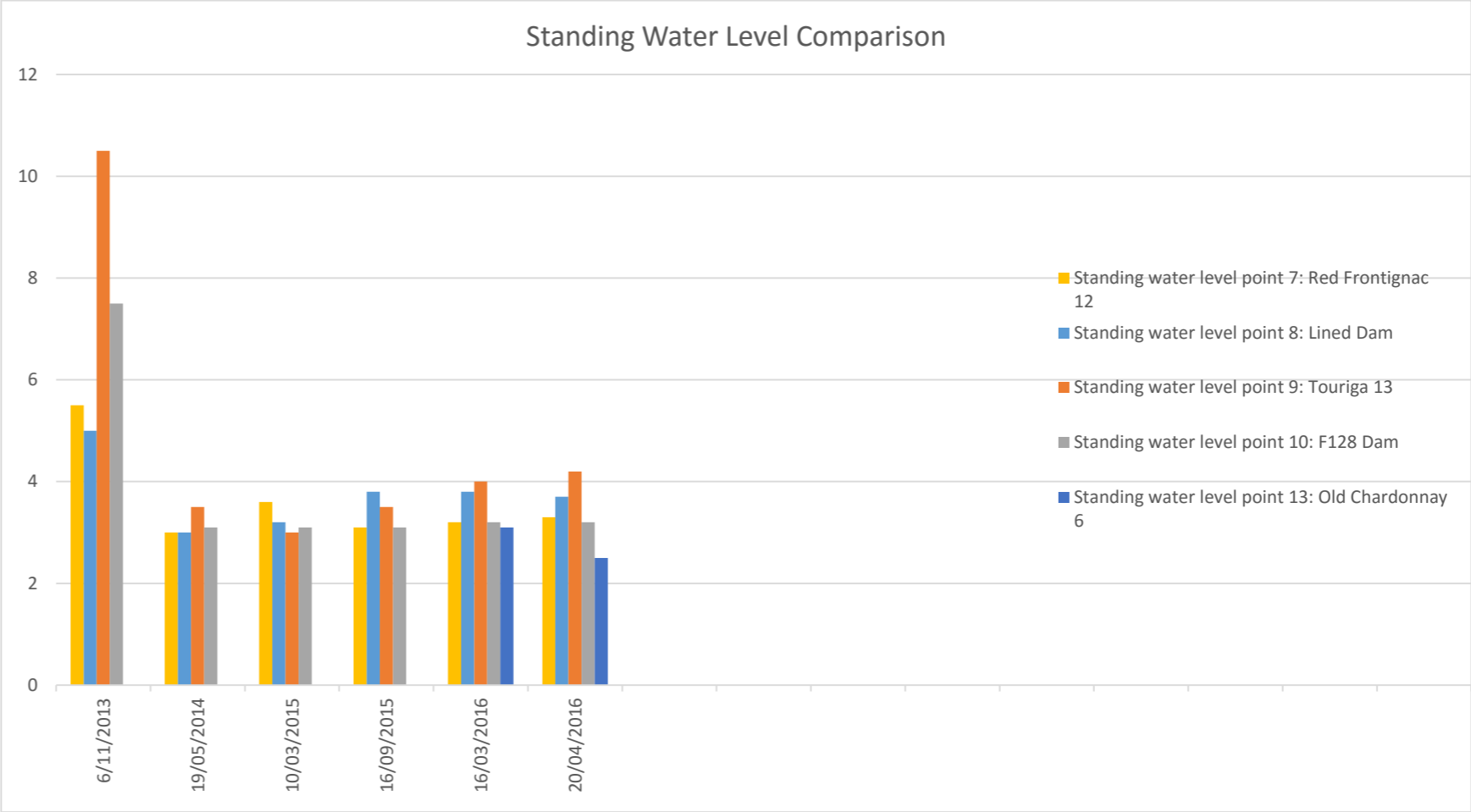
Type of Test	Name of Test	Test	Units	Date																
				1/09/2015	8/08/2016															
Quality monitoring	Electrical conductivity	EC	µs/cm	60	100															
Quality monitoring	Exchangeable calcium	Exch. Ca	cmol(+)/kg	9.5	8.4															
Quality monitoring	Exchangeable magnesium	Exch. Mg	cmol(+)/kg	4	2.6															
Quality monitoring	Exchangeable potassium	Exch. K	cmol(+)/kg	2.1	3.8															
Quality monitoring	Exchangeable sodium	Exch. Na	cmol(+)/kg	0.07	0.09															
Quality monitoring	Nitrate nitrogen	Nitrate	mg/kg	2	7															
Quality monitoring	Total nitrogen	N (total)	mg/kg	2	5															
Quality monitoring	pH	pH	pH	5.9	6.7															
Quality monitoring	Total phosphorus	P (total)	mg/kg	130	190															
Quality monitoring	Potassium	K	mg/kg	810	1500															
Quality monitoring	Sodium adsorption ratio	SAR	SAR	0.03	0.04															
Quality monitoring	P sorption capacity	P sorption capacity	mg/kg	95	100															





**Piezometer Standing Water Levels: depth in metres below surface**

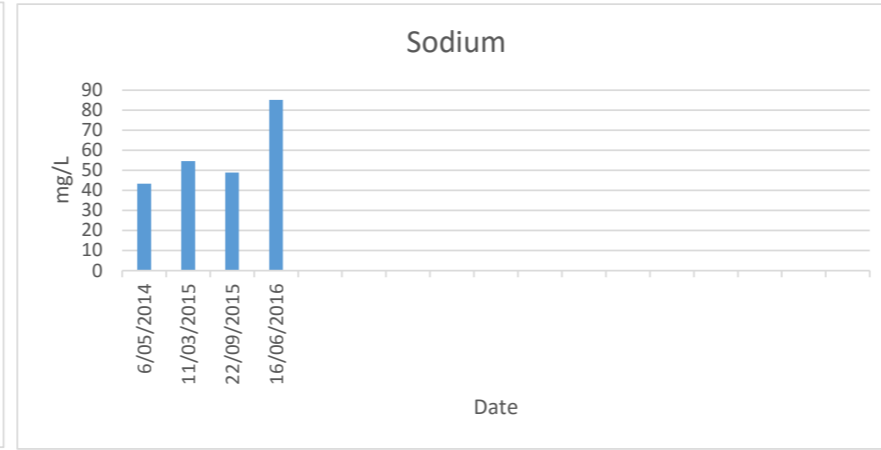
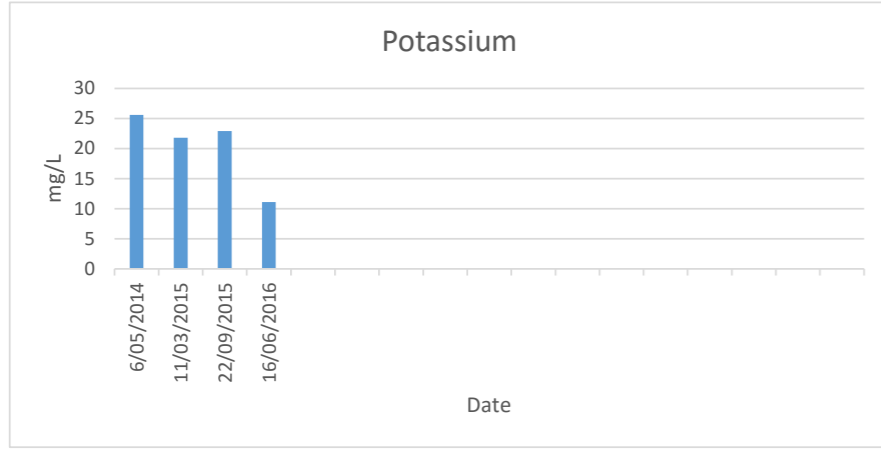
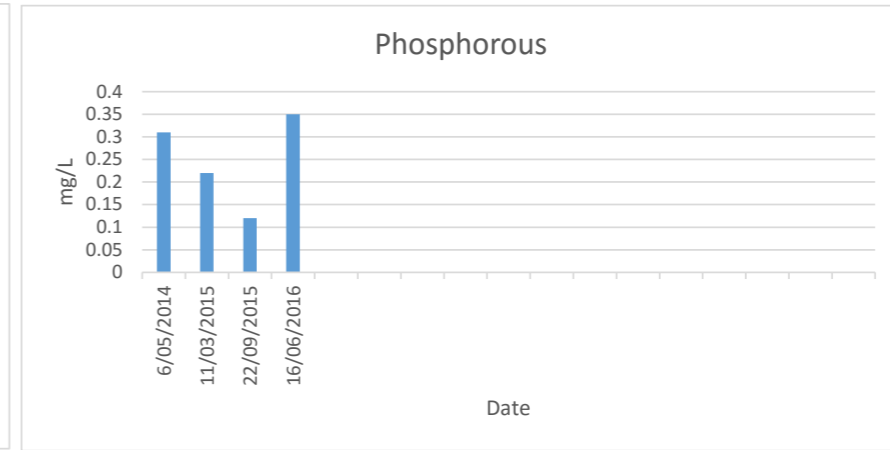
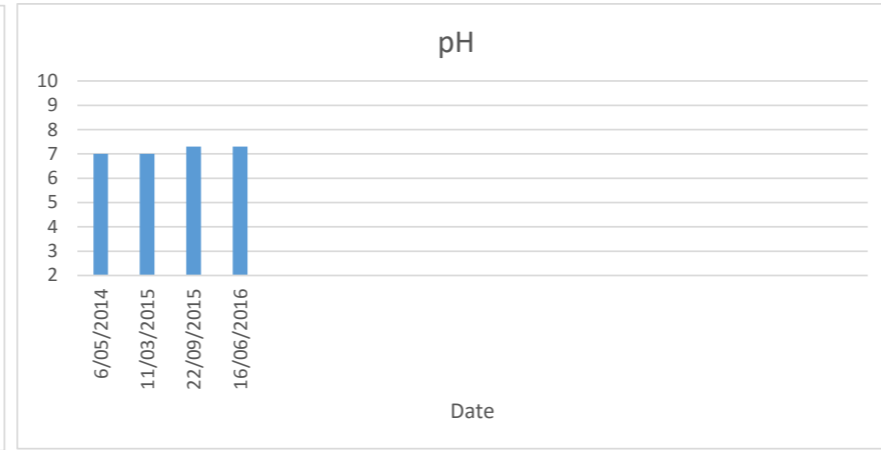
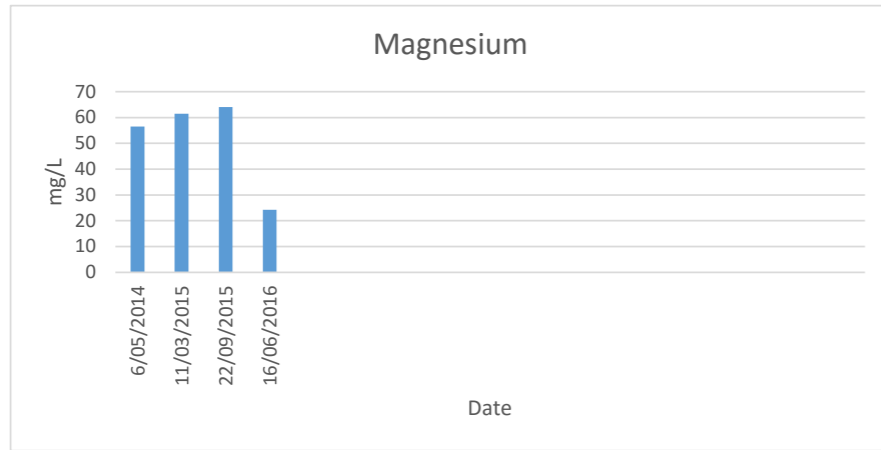
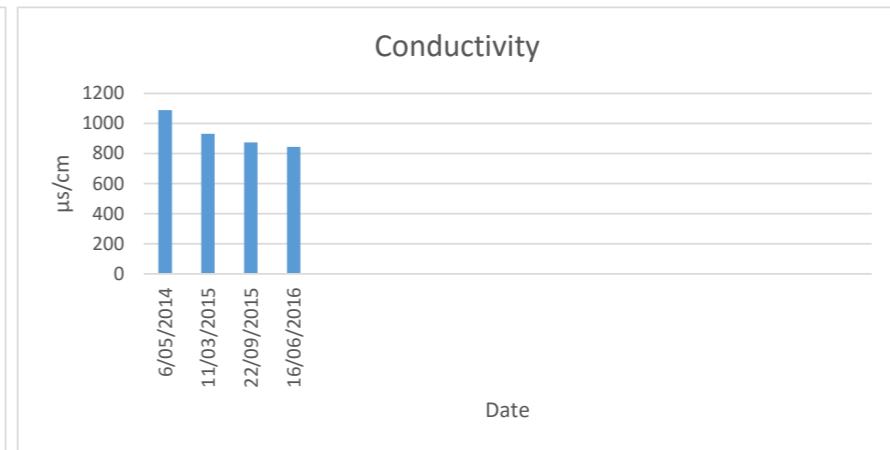
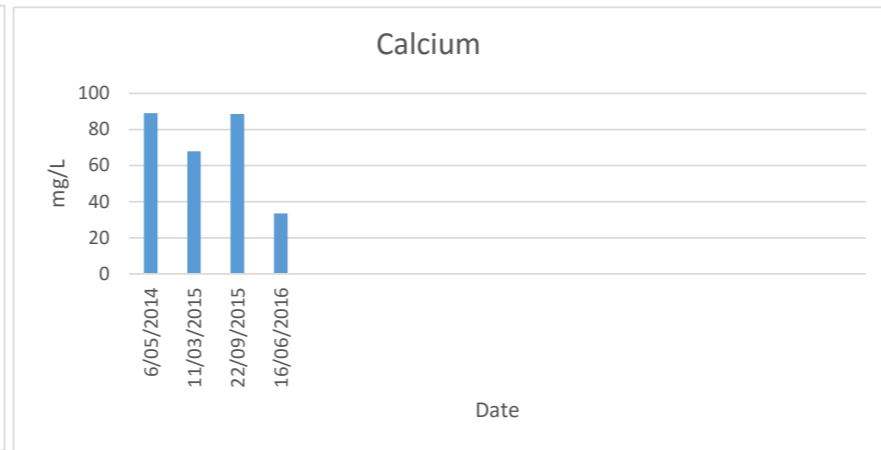
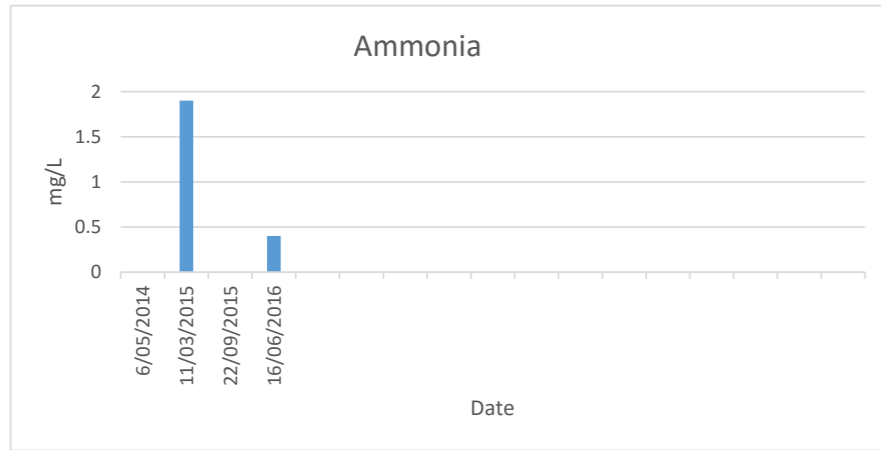
Date	Standing water level point 7: Red Frontignac 12	Standing water level point 8: Lined Dam	Standing water level point 9: Touriga 13	Standing water level point 10: F128 Dam	Standing water level point 13: Old Chardonnay 6
6/11/2013	5.5	5	10.5	7.5	
19/05/2014	3	3	3.5	3.1	
10/03/2015	3.6	3.2	3	3.1	
16/09/2015	3.1	3.8	3.5	3.1	
16/03/2016	3.2	3.8	4	3.2	3.1
20/04/2016	3.3	3.7	4.2	3.2	2.5



**Point 7: Piezometer Water Quality Test Results Red Frontignac 12 Row 1**

Date

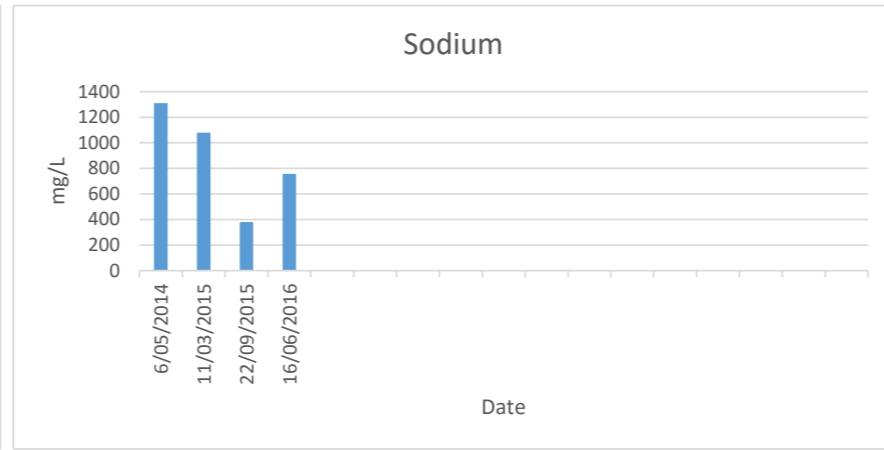
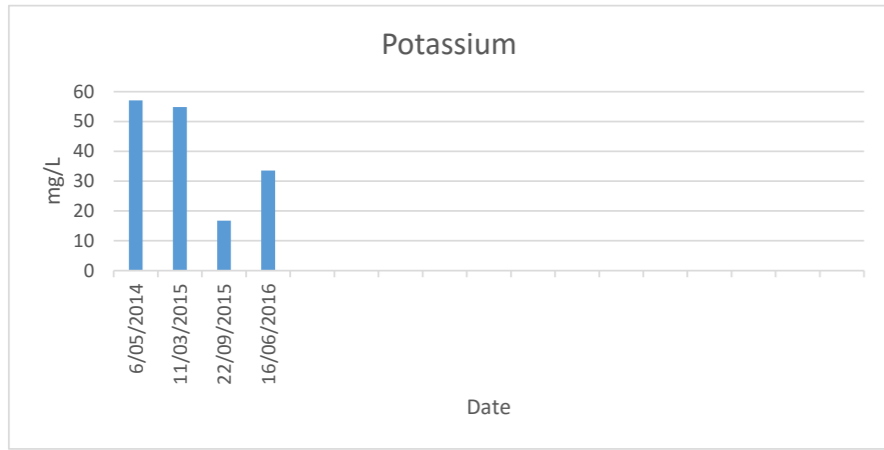
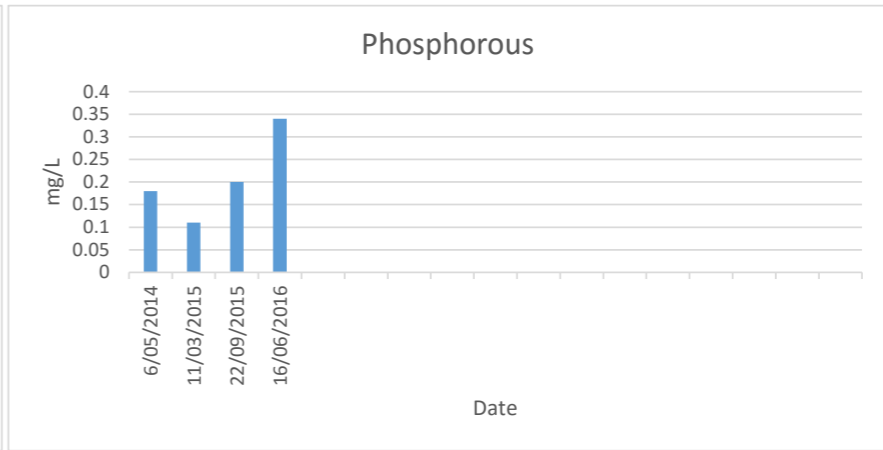
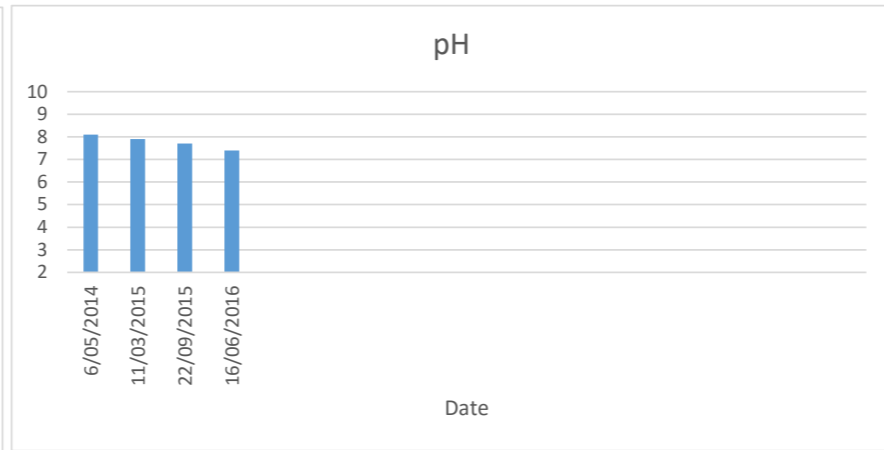
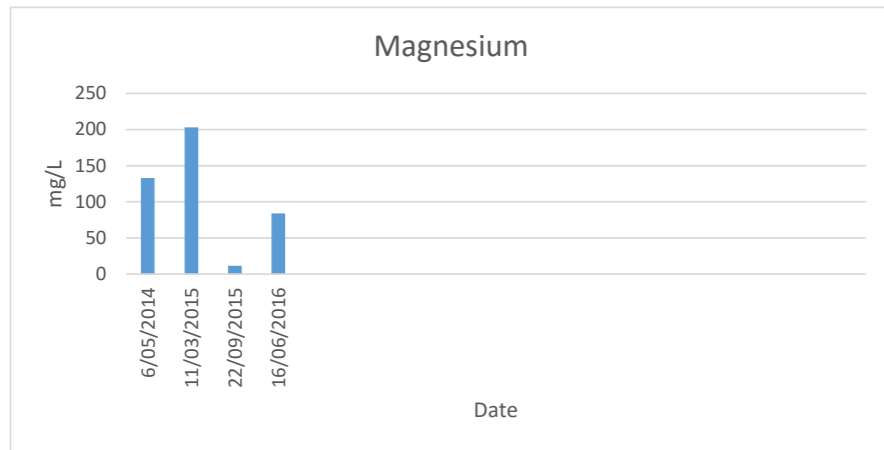
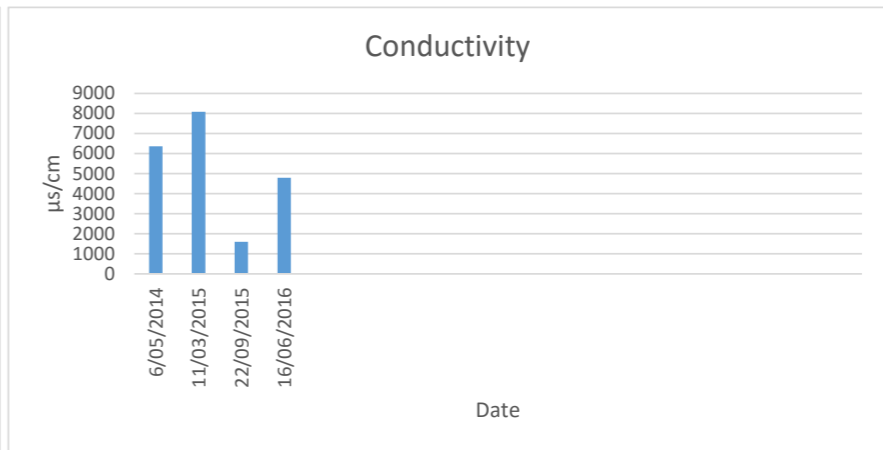
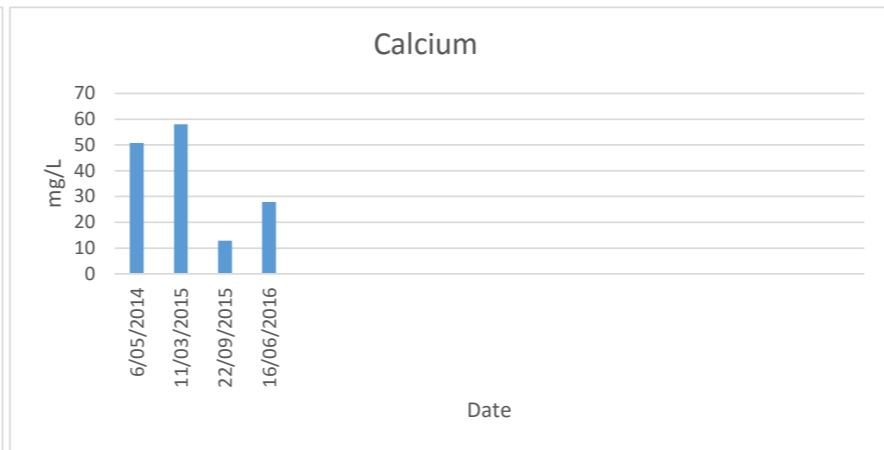
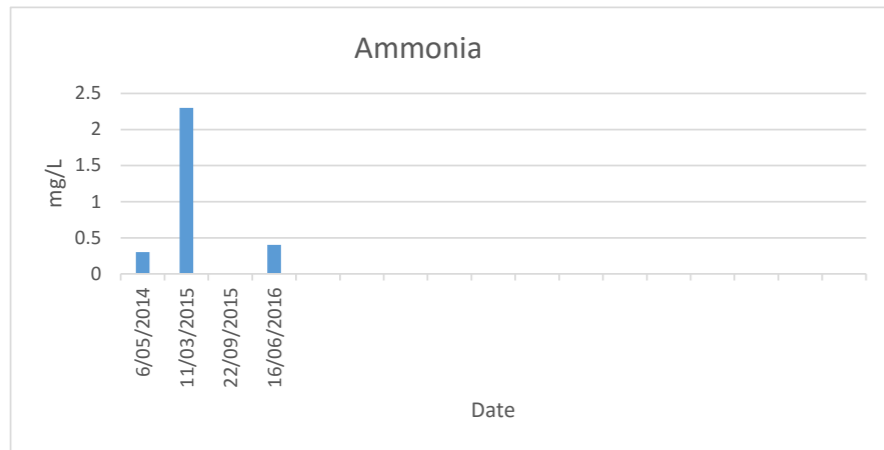
Type of Test	Name of Test	Test	Units	6/05/2014	11/03/2015	22/09/2015	16/06/2016													
Quality monitoring	Ammonium nitrogen	ammonia	mg/L	<0.2	1.9	<0.2	0.4													
Quality monitoring	Calcium	Ca	mg/L	89.1	67.9	88.6	33.5													
Quality monitoring	Electrical conductivity	EC	µs/cm	1090	931	874	845													
Quality monitoring	Magnesium	Mg	mg/L	56.5	61.5	64	24.3													
Quality monitoring	Nitrate nitrogen	N( nitrate)	mg/L	<0.5	<1	<0.5	<0.1													
Quality monitoring	Total nitrogen	N(total)	mg/L	2	<2	2	2													
Quality monitoring	pH	pH	pH	7	7	7.3	7.3													
Quality monitoring	Phosphorus	P	mg/L	0.31	0.22	0.12	0.35													
Quality monitoring	Potassium	K	mg/L	25.6	21.8	22.9	11.1													
Quality monitoring	Sodium	Na	mg/L	43.4	54.6	48.9	85.2													



**Point 8: Piezometer Water Quality Test Results Lined Dam SW End**

Date

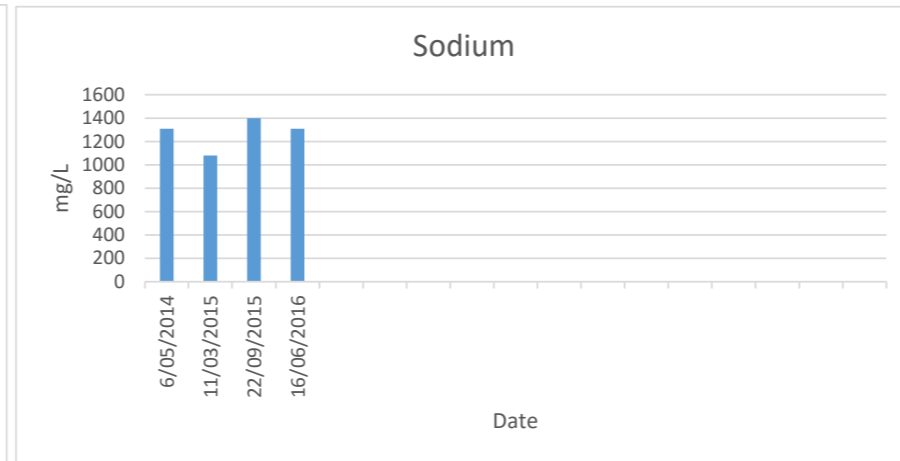
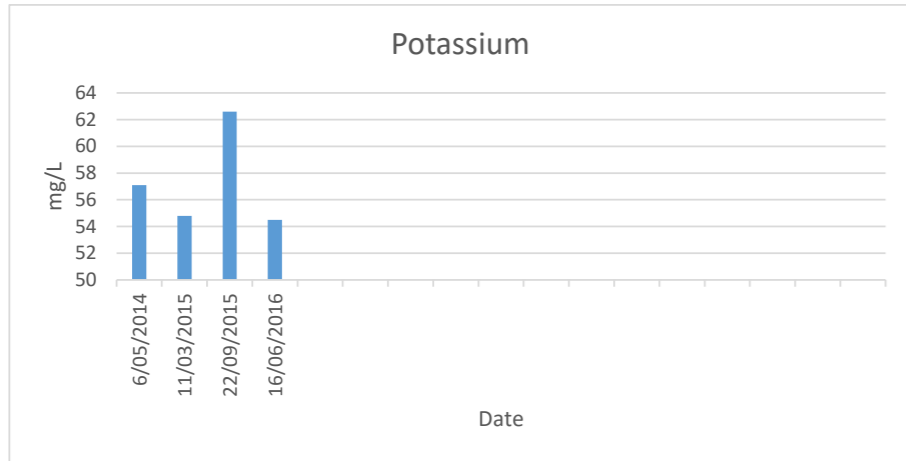
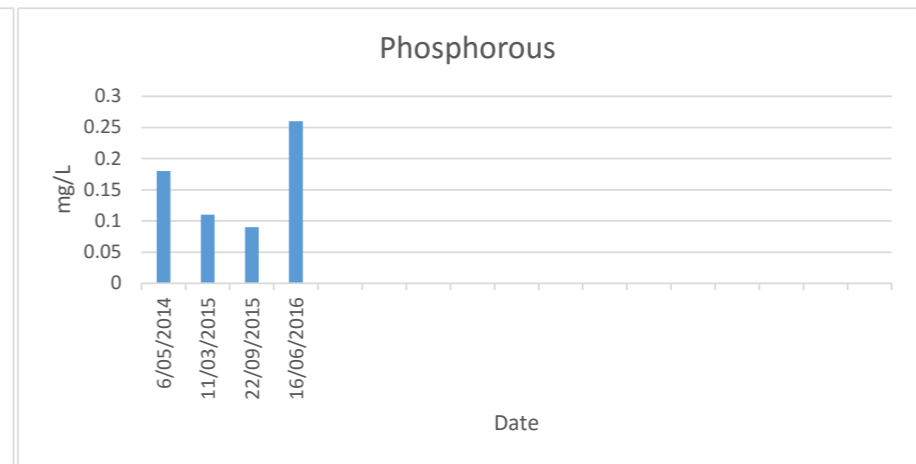
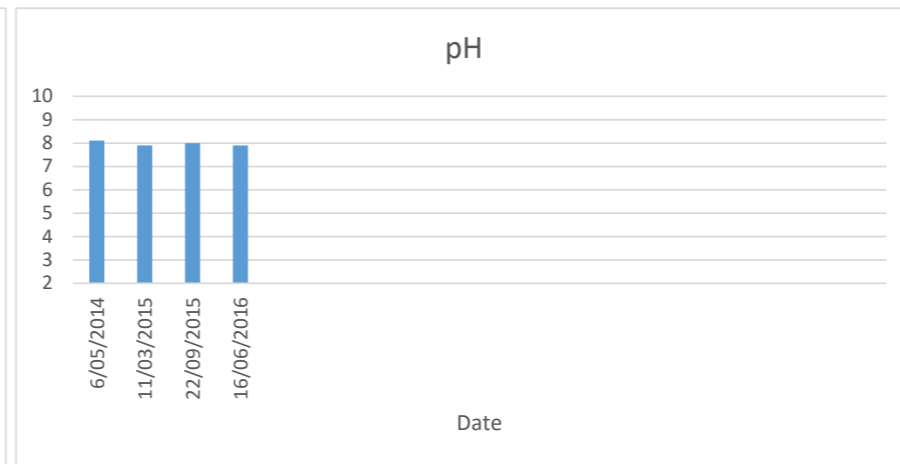
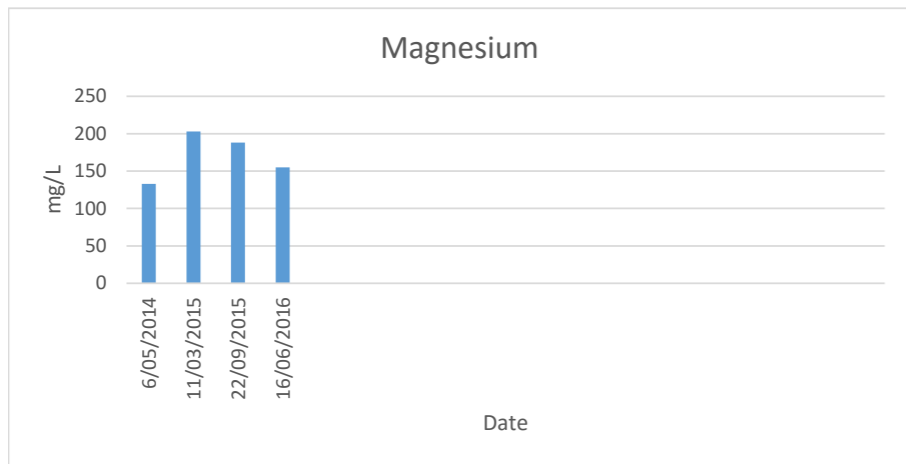
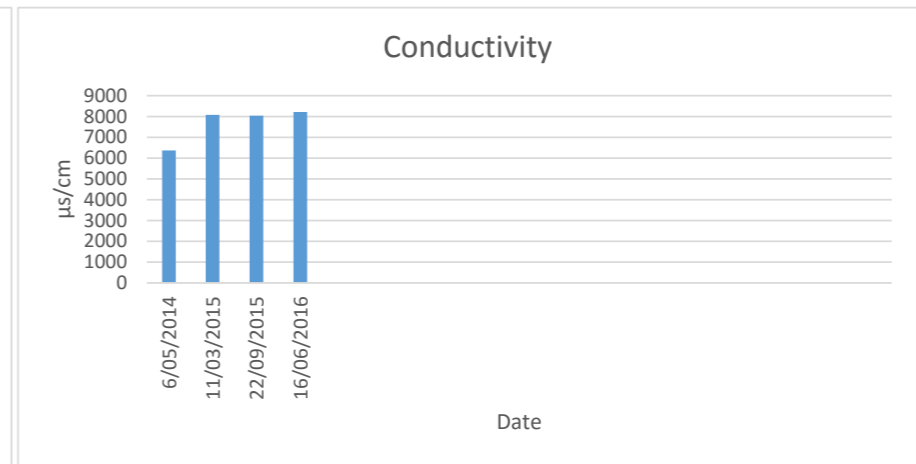
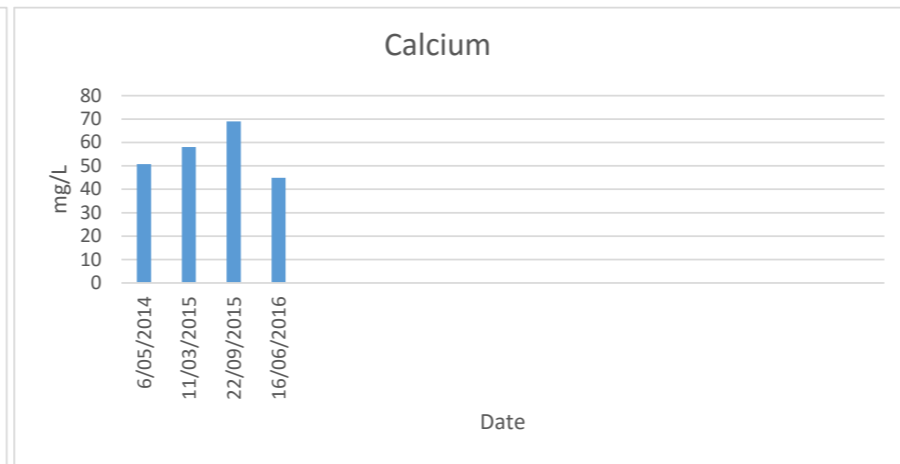
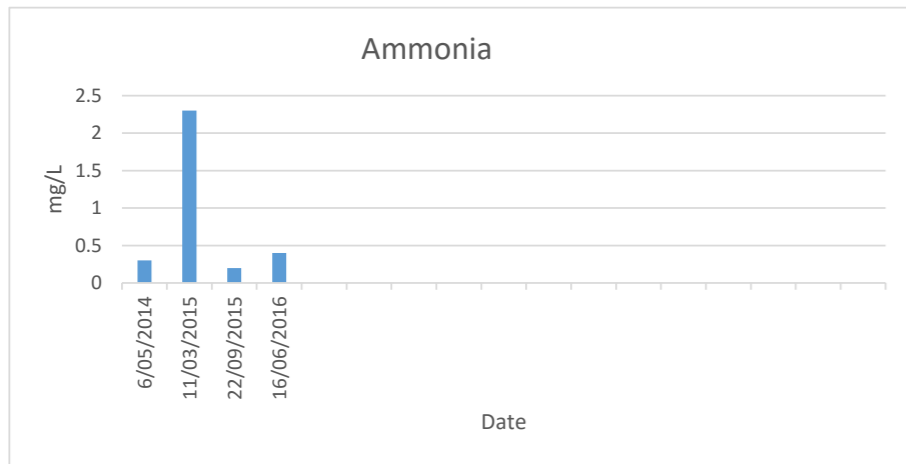
Type of Test	Name of Test	Test	Units	6/05/2014	11/03/2015	22/09/2015	16/06/2016													
Quality monitoring	Ammonium nitrogen	ammonia	mg/L	0.3	2.3	<0.2	0.4													
Quality monitoring	Calcium	Ca	mg/L	50.8	58	12.9	27.9													
Quality monitoring	Electrical conductivity	EC	µs/cm	6370	8080	1600	4790													
Quality monitoring	Magnesium	Mg	mg/L	133	203	11.4	84													
Quality monitoring	Nitrate nitrogen	N( nitrate)	mg/L	<0.5	<1.0	<0.5	1.1													
Quality monitoring	Total nitrogen	N(total)	mg/L	2	<2	2	3													
Quality monitoring	pH	pH	pH	8.1	7.9	7.7	7.4													
Quality monitoring	Phosphorus	P	mg/L	0.18	0.11	0.2	0.34													
Quality monitoring	Potassium	K	mg/L	57.1	54.8	16.8	33.6													
Quality monitoring	Sodium	Na	mg/L	1310	1080	380	756													



**Point 9: Piezometer Water Quality Test Results Touriga SW End**

Date

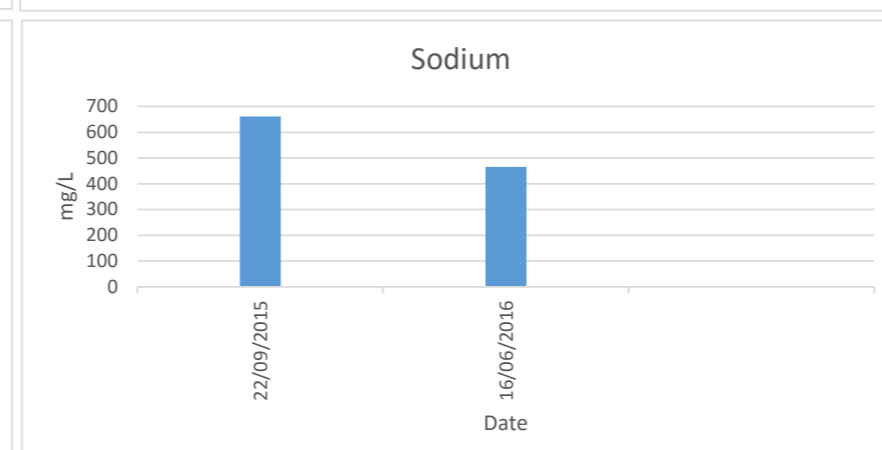
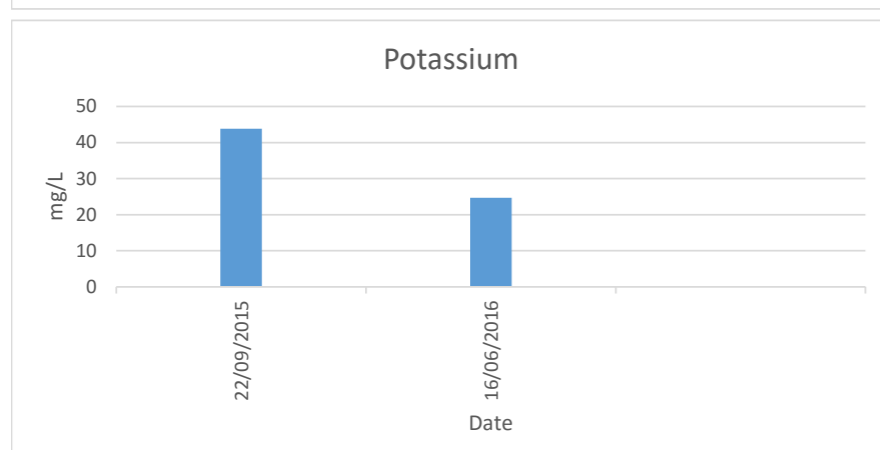
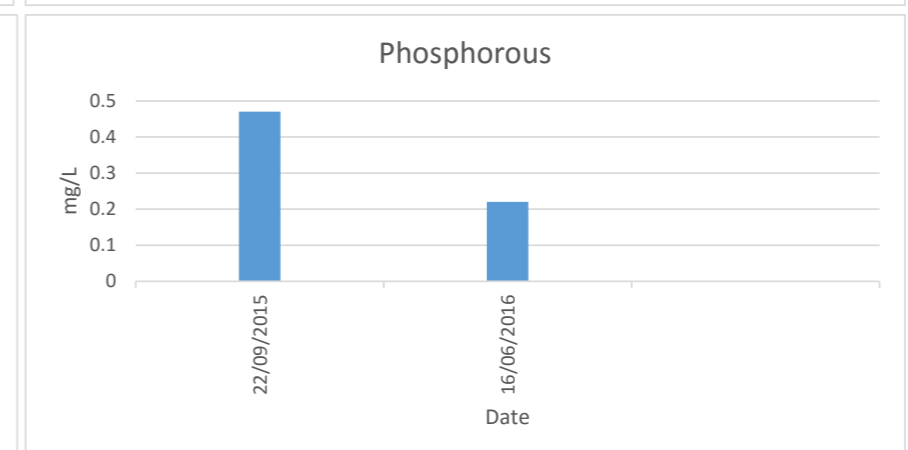
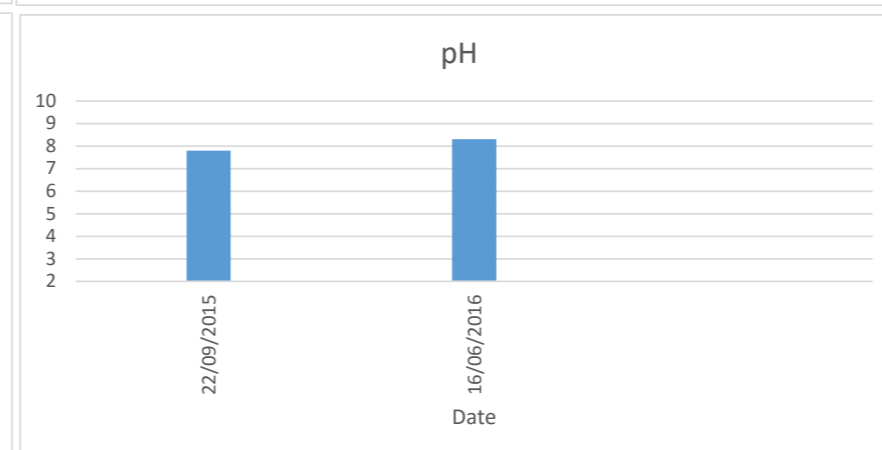
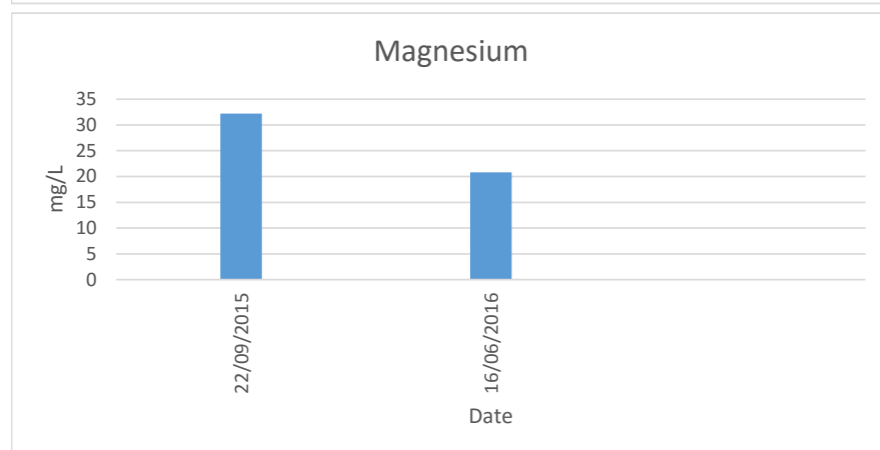
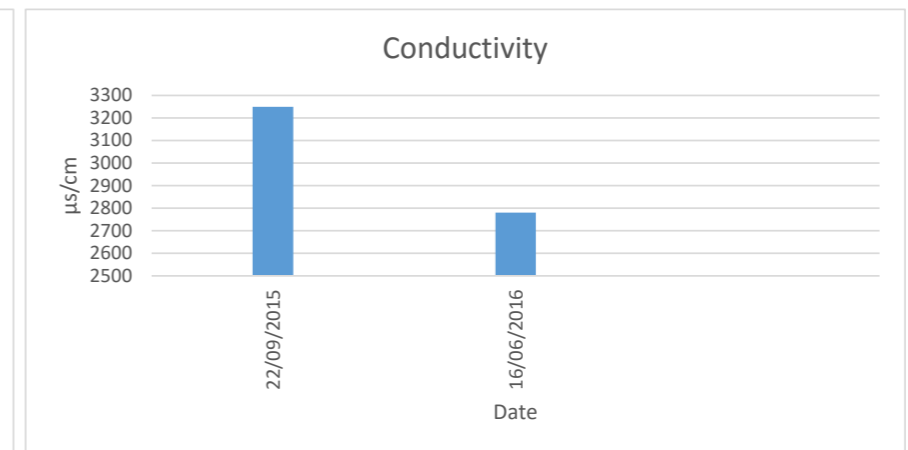
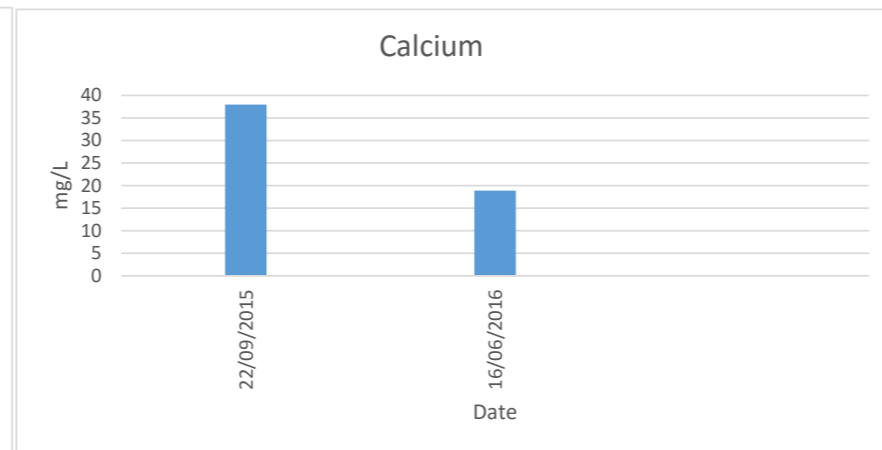
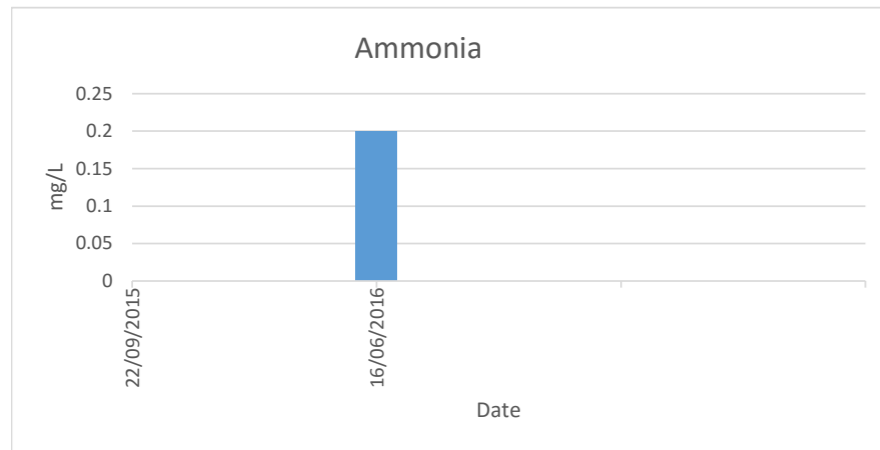
Type of Test	Name of Test	Test	Units	6/05/2014	11/03/2015	22/09/2015	16/06/2016													
Quality monitoring	Ammonium nitrogen	ammonia	mg/L	0.3	2.3	0.2	0.4													
Quality monitoring	Calcium	Ca	mg/L	50.8	58	69	44.9													
Quality monitoring	Electrical conductivity	EC	µs/cm	6370	8080	8030	8210													
Quality monitoring	Magnesium	Mg	mg/L	133	203	188	155													
Quality monitoring	Nitrate nitrogen	N( nitrate)	mg/L	<0.5	<1	<0.5	<0.1													
Quality monitoring	Total nitrogen	N(total)	mg/L	2	<2	<2	2													
Quality monitoring	pH	pH	pH	8.1	7.9	8	7.9													
Quality monitoring	Phosphorus	P	mg/L	0.18	0.11	0.09	0.26													
Quality monitoring	Potassium	K	mg/L	57.1	54.8	62.6	54.5													
Quality monitoring	Sodium	Na	mg/L	1310	1080	1400	1310													



**Point 10: Piezometer Water Quality Test Results F128 Dam SW Point**

Date

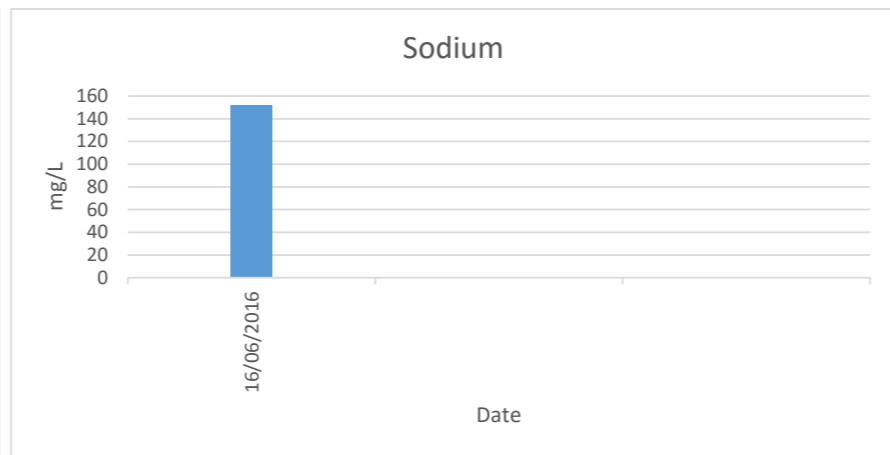
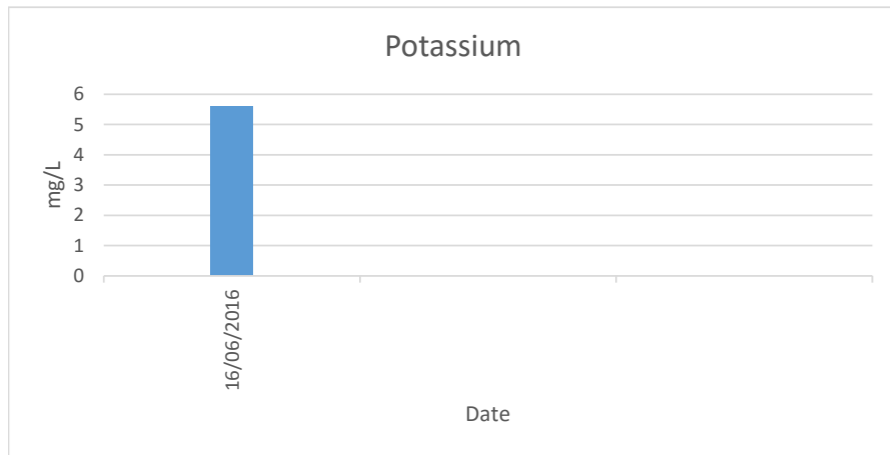
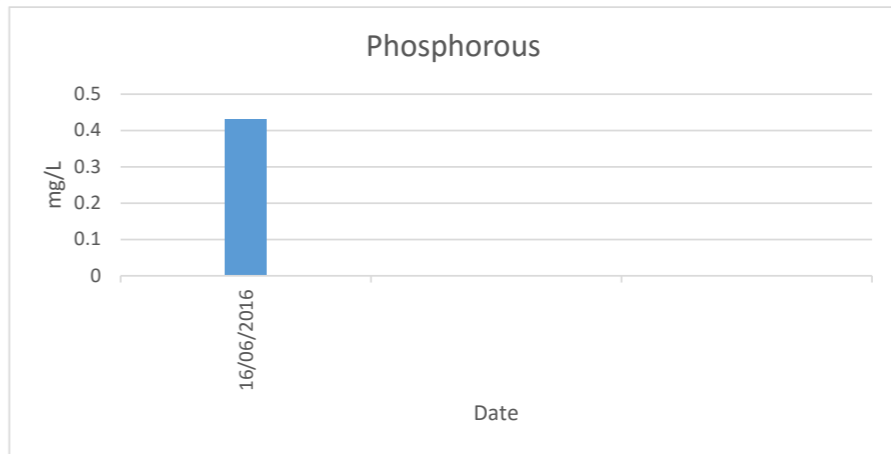
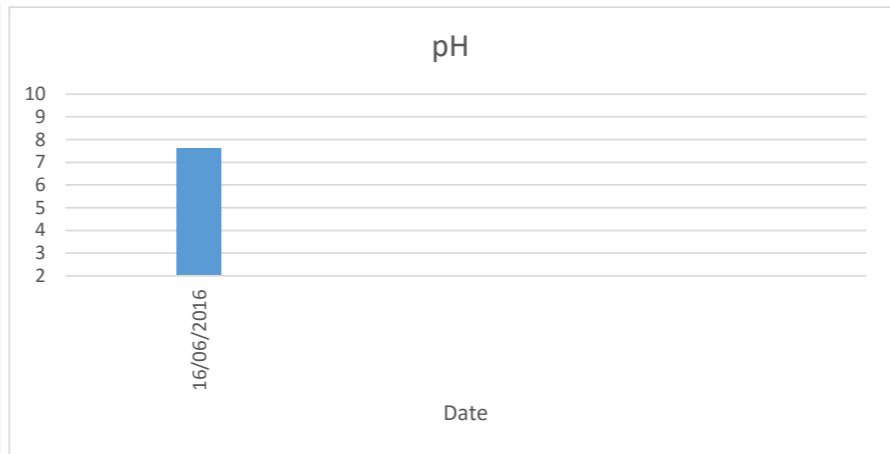
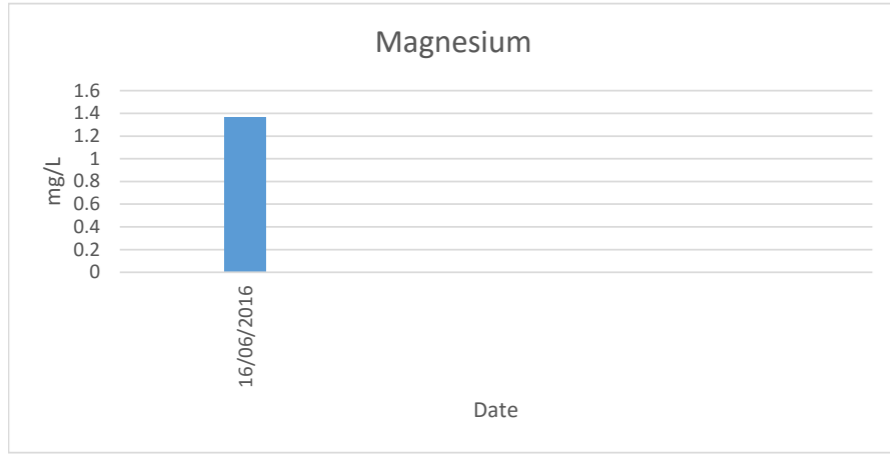
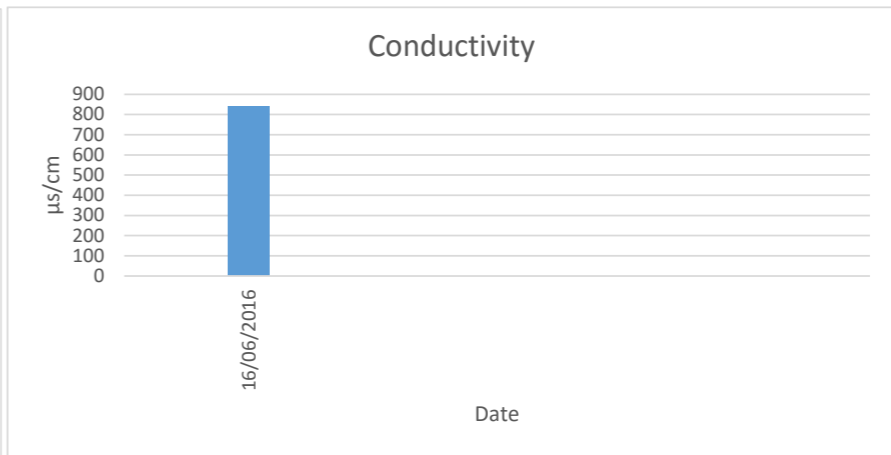
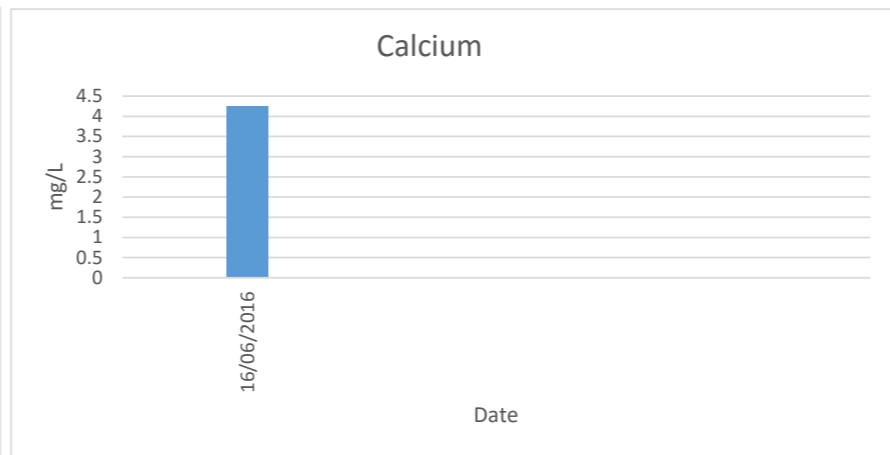
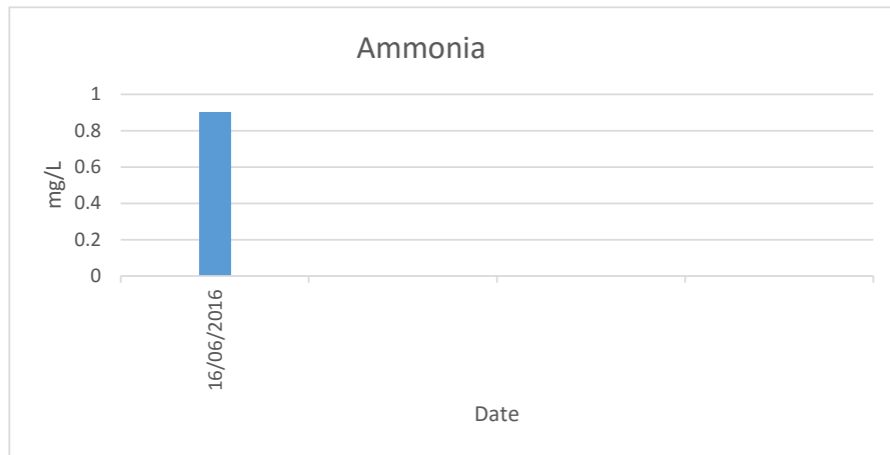
Type of Test	Name of Test	Test	units	Date																
				22/09/2015	16/06/2016															
Quality monitoring	Ammonium nitrogen	ammonia	mg/L	<0.2	0.2															
Quality monitoring	Calcium	Ca	mg/L	38	18.9															
Quality monitoring	Electrical conductivity	EC	µs/cm	3250	2780															
Quality monitoring	Magnesium	Mg	mg/L	32.2	20.8															
Quality monitoring	Nitrate nitrogen	N( nitrate)	mg/L	1.6	<0.1															
Quality monitoring	Total nitrogen	N(total)	mg/L	4	<2															
Quality monitoring	pH	pH	pH	7.8	8.3															
Quality monitoring	Phosphorus	P	mg/L	0.47	0.22															
Quality monitoring	Potassium	K	mg/L	43.8	24.7															
Quality monitoring	Sodium	Na	mg/L	661	466															



**Point 13: Piezometer Water Quality Test Results Old Chardonnay 6 SW End**

Date

Type of Test	Name of Test	Test	units	16/06/2016																	
Quality monitoring	Ammonium nitrogen	ammonia	mg/L	0.9																	
Quality monitoring	Calcium	Ca	mg/L	4.25																	
Quality monitoring	Electrical conductivity	EC	µs/cm	840																	
Quality monitoring	Magnesium	Mg	mg/L	1.37																	
Quality monitoring	Nitrate nitrogen	N( nitrate)	mg/L	0.6																	
Quality monitoring	Total nitrogen	N(total)	mg/L	2																	
Quality monitoring	pH	pH	pH	7.6																	
Quality monitoring	Phosphorus	P	mg/L	0.43																	
Quality monitoring	Potassium	K	mg/L	5.6																	
Quality monitoring	Sodium	Na	mg/L	152																	





**EPA ENVIRONMENTAL MONITORING**

Type of Monitoring Point	How Monitored	Location Description	Frequency
Odour	Odour Intensity and Descriptor Sheet; observation.	Boundary of evaporation ponds "EPA 21" & "EPA 22" on site map.	Daily (working days)

Type of Monitoring Point	How Monitored	Location Description	Frequency
Weather conditions other than rainfall - temperature, wind speed, wind direction, humidity	Handheld weather meter	Boundary of evaporation ponds "EPA 21" & "EPA 22" on site map.	Daily (working days)

Type of Monitoring Point	How Monitored	Location Description	Frequency
Rainfall	Rain gauge	Boundary of evaporation ponds "EPA 21" & "EPA 22" on site map.	Daily (working days)

Type of Monitoring Point	How Monitored	Location Description	Frequency
Biosolids Cake	Biosolids sample, laboratory analysis	Evaporation ponds sludge	As required

Test Type	EPA Reference Points	Frequency of Monitoring	Next Sample Date
Soil quality monitoring	3, 4, 5, 6, 11	Annual	1/09/2016
Groundwater quality monitoring	7, 8, 9, 10	Annual	11/03/2016
Groundwater standing level	7, 8, 9, 10	6 monthly	16/03/2016
Effluent quality monitoring: inflow and outflow	1, 2	6 monthly	15/03/2016
Effluent volume monitoring: inflow and outflow	1,2	Monthly	28/10/2015