

Eviron Road Quarry Landfill
Annual Environmental Management Review 2017
Stage 1 (Application No.08_0068)

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Table of Contents



- Executive Summary 1
- 1. Project Overview 3
- 2. Location 3
- 3. Scope of This Report..... 3
- 4. Summary of Works Undertaken in 2017 4
 - 4.1 Management Plans 4
 - 4.2 General 6
 - 4.3 Meteorological Station..... 6
 - 4.4 Haul Road 7
 - 4.5 Biodiversity Offsets..... 10
- 5. Forward Works Planned for 2018 13
 - 5.1 Haul Road Construction 13
 - 5.2 Environmental 14
- 6. Monitoring Results Review 14
 - 6.1 Surface Water Quality 14
 - 6.2 Groundwater Water Quality 16
 - 6.3 Meteorological Station..... 21
 - 6.4 Complaints 22
- 7. Identification of Non-Compliance and Actions 22
- 8. Impact Assessment 22
- 9. Improvement Program..... 22
- Appendix A – Site Plan 23
- Appendix B – Monitoring Data 24
- Appendix C – Monitoring Graphs of each Parameter 25
- Appendix D – 2016 Meteorological Data 26
- Appendix E – Restoration and Biodiversity Offset Annual Progress Report. 30



Executive Summary

In December 2012, Council sought an approval from the Department of Planning and Environment (DoPE) (formerly known as the Department of Planning and Infrastructure (DoPI)) to develop new waste infrastructure at Eviron Road, Eviron. Approval was granted (Project Approval 08_0068) following an environmental assessment prepared by GHD Pty Ltd (GHD) in accordance with the requirements of Part 3A of the Environmental Planning and Assessment Act 1979 (EP&A Act). This approval includes:

- A landfill within the void space created by Quirks Quarry
- Development of two further quarries to be used as landfills after exhaustion of quarry resources and
- Operational infrastructure such as haul roads, an acid sulphate soil treatment area and other service buildings/storage facilities as required.

Construction works under this approval have only recently commenced for Stage 1 of the project which includes:

- Construction of a Haul Road from the existing Stott's Creek Resource Recovery Centre to the new landfill at Quirks Quarry
- Construction of a new landfill in the void of the existing Quirks Quarry and
- Construction of a new quarry at the site known as the West Valley.

The purpose of this report is to satisfy the requirements of Schedule 6, Condition 6 of Project Approval 08_0068, namely that an Annual Review be produced detailing the works carried out in the previous twelve months, being the reporting period from 1 January 2017 to 31 December 2017. The works carried out during this period are summarised as follows:

Management Plans

In the 2017 reporting period, no new management plans were prepared or submitted for approval and no approvals of outstanding management plans previously submitted to the DoPE were received.

General Activities

During the 2017 reporting period, the following general works activities were carried out at the site:

- Negotiations were ongoing for the removal of the remaining material stockpiles located within Quirks Quarry. It is anticipated that this material will be removed from the site by the end of 2018.
- Environmental baseline monitoring of groundwater and surface water continues to be undertaken as per the Environmental Assessment recommendations.
- Environmental and cultural heritage site inductions have continued for site personnel.
- Vegetation protection areas have been signposted and taped off restricting access (refer Figures 1 and 5) with monitoring and maintenance undertaken as required.
- Environmental controls installed at the site continue to be maintained and rectification works are undertaken as required.

Meteorological Station

The meteorological station that had previously been installed at the site was lost during the unprecedented March 2017 flood which was the largest flood event on record in the Tweed.

A new weather station has been installed at the site to replace the previous one and has been operational since January 2018. During the down period between the loss of the old station and the installation of the new, weather data was taken from the Bureau of Meteorology north Murwillumbah weather station.

Haul Road

Activities undertaken at the site during the 2017 reporting period comprised of preliminary site work in preparation for the commencement of construction of the haul road. Specifically, these works included:

- Installation of a fob activated boom gate at the entry to the site off Eviron Road to manage, control and monitor all material coming into the site during construction.
- Installation of permanent and temporary erosion and sediment controls in current active areas of disturbance. Ongoing monitoring of these controls is also being undertaken on a periodic basis.
- Installation of one set of cross road culverts and headwalls beneath the haul road alignment (approx. CH800)
- Construction of road base bridging layer between CH780 to CH1010 in preparation for the future placement of fill above.

Biodiversity Offsets

Biodiversity offset planting was implemented in 2017 in accordance with the submitted Biodiversity Offset Plan. These works are aimed at improving the quality of corridor vegetation composition and connectivity through enhancement plantings, bush regeneration and weed control in two defined corridor alignments; being the Northern Riparian Corridor (NRC) and Southern Ridgeline Corridor (SRC) (refer Figure 8). A total of 13,700 tube stock were planted across both zones during March and April with subsequent maintenance and weed control undertaken throughout the remainder of the year.

Nest Box

The first annual follow-up and maintenance inspection was undertaken which recorded 17 sugar gliders (*Petaurus breviceps*) occurring within a range of nest box types. Five nest boxes had nesting material (eucalypt and/or eucalypt leaves and camphor leaves combined) present within boxes. Based on the type of nest construction observed, a further three species may be using boxes and includes *Antechinus* spp., the Feather-tail Glider and Possum (most likely Mountain Brushtail Possum based on previous site records). Three boxes were colonised by arboreal ants.

Complaints

During the 2017 reporting period, no complaints were received relating to the project.

1. Project Overview

Residents within the Tweed Shire Council (the Council) Local Government Area (LGA) currently generate approximately 100,000 tonnes of waste annually which is largely recycled or reused. A component of this waste, however, cannot be reused and therefore must be safely managed in landfill.

Waste within the Tweed is currently landfilled at Council's Stott's Creek Resource Recovery Centre, however, this facility is nearing its design capacity. In planning for the shires future landfill requirements, Council sought an approval from the Department of Planning and Environment (DoPE) (formerly known as the Department of Planning and Infrastructure (DoPI)) in December 2012 to develop new waste infrastructure at Eviron Road, Eviron (Project Approval 08_0068). Approval was granted following an environmental assessment prepared by GHD Pty Ltd (GHD) in accordance with the requirements of Part 3A of the Environmental Planning and Assessment Act 1979 (EP&A Act). This approval includes:

- A landfill within the void space created by Quirks Quarry,
- Development of two further quarries to be used as landfills after exhaustion of quarry resources, and
- Operational infrastructure such as haul roads, an acid sulphate soil treatment area and other service buildings/storage facilities as required.

Construction works under this approval have only recently commenced for Stage 1 of the project which includes:

- Construction of a Haul Road from the existing Stott's Creek Resource Recovery Centre to the new landfill at Quirks Quarry
- Construction of a new landfill in the void of the existing Quirks Quarry; and
- Construction of a new quarry at the site known as the West Valley.

Works carried out at the site to date have been minimal and consist of preliminary works only in preparation for the commencement of Stage 1 of works. A number of management plans have been prepared for the project along with necessary site investigations and monitoring works. Environmental controls have also been installed in preparation for the commencement of pre-loading for the construction of the haul road.

2. Location

The subject site is located at Eviron Road, Eviron, within the Tweed LGA. The site is approximately 16km north east of Murwillumbah and adjoins the existing Stott's Creek Resource Recovery Centre which is located to the north west of the site.

The Council owned site has an area of 136 hectares (excluding Stott's Creek Resource Recovery Centre) which previously comprised Lot 1 of DP 34555, Lot 26 of DP 615931, and Lot 602 DP 1001049. Following a series of property acquisitions and boundary adjustments, the subject site now comprises Lot 1 DP 1159352, Lot 2 DP 1170442, Lot 1 DP 1170442, Lot 30 DP 820048, Lot 1 DP 34555, Lot 1 DP 783802 and Lot 25 DP 615931 (refer Appendix A).

3. Scope of This Report

The purpose of this report is to satisfy the requirements of Schedule 6, Condition 6 of Project Approval 08_0068, namely that an Annual Review be produced detailing the works carried out in the previous twelve months.

This Review covers the reporting period from 1 January 2017 to 31 December 2017.

The requirements of Condition 6 are provided in Table 1 below, with specific section references for each relevant section addressed in this document.

Table 1: Annual Review requirements (Condition 6 of Schedule 6 of Project Approval 08_0068)

Annual Review Requirement		Specific Section
(a)	Describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year	Section 4 and Section 5
(b)	Include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against: <ul style="list-style-type: none"> • The relevant statutory requirements, limits or performance measures/criteria; • The monitoring results of previous years; and • The relevant predictions in the EA; 	Section 6
(c)	Identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance	Section 7
(d)	Identify any trends in the monitoring data over the life of the project	Section 6 and Appendix B & C
(e)	Identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies	Section 8
(f)	Describe what measures will be implemented over the current calendar year to improve the environmental performance of the project	Section 9

4. Summary of Works Undertaken in 2017

4.1 Management Plans

A number of management plans which are required under the project approval have been previously prepared and submitted to the Director General for necessary approval. A summary of these plans and their progress is presented in Table 2 below.

In the 2017 reporting period, no new management plans were prepared or submitted for approval and no approvals of outstanding management plans previously submitted to the DoPE were received.

Table 2: Status summary of management plans submitted under Project Approval 08_0068.

Management Plan	Summary	Status
Environmental Management Strategy	Schedule 6, Condition 3 of Project Approval 08_0068, requires that an Environmental Management Strategy be prepared and implemented for the project to the satisfaction of the Director-General.	✓ Completed - 27 May 2014
	The Environmental Management Strategy outlines all plans required under the approval, who is responsible for preparation of each plan, who is responsible for implementing each plan and who audits each plan within recommended timeframes.	✓ Approved - 4 June 2014

Management Plan	Summary	Status
	<p>The Environmental Management Strategy was prepared and submitted to the Director General on 27 May 2014 and was granted approval by DoPE on 4 June 2014.</p>	
Heritage Management Plan	<p>A Heritage Management Plan is required as per Schedule 4, Condition 28 of Project Approval 08_0068. This plan was prepared in consultation with the TBLALC and included a Heritage Awareness Induction for all those involved. To date any personnel attending the site have been inducted prior to commencement of any activities.</p> <p>The Heritage Management Plan was submitted to the Director General on 8 January 2014 and approved by the DoPE on 4 June 2014.</p>	<p>✓ Completed - 8 January 2014</p> <p>✓ Approved - 4 June 2014</p>
Biodiversity Offset Plan	<p>The Biodiversity Offset Plan is a requirement of Schedule 4, Condition 29 of Project Approval 08_0068. This plan was submitted to the Director General on 18 December 2013 and the reply from DoPE dated 4 June 2014 stated they would review its adequacy in consultation with relevant agencies.</p> <p>A number of key commitments within the submitted plan have been undertaken in 2016 which include:</p> <ul style="list-style-type: none"> (i) Delineation of Vegetation Protection Areas on the site with bunting and signage that restricts access from site operations (refer Figure 1). (ii) Eviron Quarry & Landfill Bio Offset Restoration plan finalised and procurement of significant vegetation works that will be implemented under the plan. 	<p>✓ Completed - 18 December 2013</p> <p>X Awaiting Approval</p>
White Laceflower Translocation Plan	<p>This plan is required as per Schedule 4, Condition 30 of Project Approval 08_0068. This plan was submitted 28 August 2013 and approved by DoPE 4 June 2014. Work to date has been carried out in accordance with the plan.</p> <p>Despite ongoing monitoring of white lace flower seeds on the site, no white lace flower seeds have propagated on the site since the approval of this plan. Ongoing monitoring of white lace flowers continues locally with the aim of utilising white lace flower seedlings from the site as soon as they become available. Failing this, alternative White Lace seedlings may have to be sourced from an alternative source.</p>	<p>✓ Completed - 28 August 2013</p> <p>✓ Approved - 4 June 2014</p>
Landscape Management Plan	<p>A Landscape Management Plan (LMP) is a requirement of Schedule 4, Condition 31 of Project Approval 08_0068. This plan was submitted to DoPE 4 April 2014. DoPE advised that further discussions would be required with the Office of Environment and Heritage.</p> <p>Under the provision of Condition 32, Schedule 4, a conservation and rehabilitation bond is to be lodged within six (6) months of the approval of the Landscape Management Plan. Once</p>	<p>✓ Completed - 4 April 2014</p> <p>X Awaiting Approval</p>

Management Plan	Summary	Status
	approval has been received, necessary arrangements will be made for lodgement of this bond.	

4.2 General

During the 2017 reporting period, the following general works activities were carried out at the site:

- Negotiations were ongoing for the removal of the remaining material stockpiles located within Quirks Quarry. It is anticipated that this material will be removed from the site by the end of 2018.
- Environmental baseline monitoring of groundwater and surface water continues to be undertaken as per the Environmental Assessment recommendations.
- Environmental and cultural heritage site inductions have continued for site personnel.
- Vegetation protection areas have been signposted and taped off restricting access (refer Figures 1 and 5) with monitoring and maintenance undertaken as required.
- Environmental controls installed at the site continue to be maintained and rectification works are undertaken as required.



Figure 1 – Vegetation Protection Area.

4.3 Meteorological Station

Condition 9 of Schedule 3 of Project Approval 08_0068 requires that a meteorological station be situated on the site to continuously monitor air temperature, wind direction, wind speed, rainfall and relative humidity (refer Figure 2 and Appendix A). The meteorological station that had previously been installed at the site was lost during the unprecedented March 2017 flood which was the largest flood event on record in the Tweed.

A new weather station has been installed at the site to replace the previous one and has been operational since January 2018. During the down period between the loss of the old station and the installation of the new, weather data was taken from the Bureau of Meteorology north Murwillumbah weather station.

Meteorological data captured for the 2017 reporting period is summarised in Appendix D.



Figure 2 – New meteorological station replaced following the March 30 flood event.

4.4 Haul Road

Pre-construction and design works for the proposed haul road were completed in 2016 with the proposed road alignment surveyed and pegged out.

Activities undertaken at the site during the 2017 reporting period comprised of preliminary site work in preparation for the commencement of construction of the haul road. Specifically, these works included:

- Installation of a fob activated boom gate at the entry to the site off Eviron Road to manage, control and monitor all material coming into the site during construction (refer Figure 3).
- Installation of permanent and temporary erosion and sediment controls in current active areas of disturbance. Ongoing monitoring of these controls is also being undertaken on a periodic basis (refer Figure 4, 5, and 6).
- Installation of one set of cross road culverts and headwalls beneath the haul road alignment (approx. CH800)

- Construction of road base bridging layer between CH780 to CH1010 in preparation for the future placement of fill above (refer Figure 7).



Figure 3 – Fob activated boom gate constructed at entrance to haul road site.



Figure 4 – Photo of vegetated stockpiles and stormwater infrastructure on site ready for installation.



Figure 5 – Environmental controls along haul road alignment.



Figure 6 – Construction of temporary and permanent environmental controls associated with the construction of cross road culverts at approx. CH800.



Figure 7 – Current haul road alignment following construction of the road base bridging layer between CH780 to CH1010 in preparation for future placement of fill above.

4.5 Biodiversity Offsets

Biodiversity offset planting was implemented in 2017 in accordance with the submitted Biodiversity Offset Plan (refer Figure 8). These works are aimed at improving the quality of corridor vegetation composition and connectivity through enhancement plantings, bush regeneration and weed control in two defined corridor alignments; being the Northern Riparian Corridor (NRC) and Southern Ridgeline Corridor (SRC) (refer Figure 8).

The on-ground works for the offset planting began on the 20th February 2017 comprising of primary weed controls across both zones. A total of 13,700 tube stock were planted across both zones during March and April with subsequent maintenance and weed control undertaken throughout the remainder of the year (refer Figures 9 and 10, and Appendix E for annual report).

As part of the biodiversity offset plan, rectification of existing cattle fencing has also been undertaken and all cattle have been removed from the site to prevent damage to the offset restoration areas.

In addition to the above works, 12 nest boxes have also been installed at the site in accordance with the Eviron Road Quarry and Landfill Nest box Plan (refer Figure 11). Nest boxes were installed on the 29th July 2016 as per Table 3 below.

Council commissioned an independent ecologist (Lewis Ecological Consultants) to undertake the first annual follow-up and maintenance inspection on the 16th March 2018 (refer Appendix F). In accordance with the nest box management plan, the engaged ecologist inspected each box looking for evidence of fauna occupation or pest activity. The inspection recorded 17 sugar gliders (*Petaurus breviceps*) occurring within a range of nest box types. Five nest boxes had nesting material (eucalypt and/or eucalypt leaves and camphor leaves combined) present within boxes. Based on the type of nest construction observed, a further three species may be using boxes and includes *Antechinus* spp., the Feather-tail Glider and Possum (most likely Mountain Brushtail Possum based on previous site records). Three boxes were colonised by arboreal ants.

In regards to the condition and functionality of nest boxes, all boxes were in good condition and functioning as designed. Consequently, no maintenance is required on boxes at this stage.

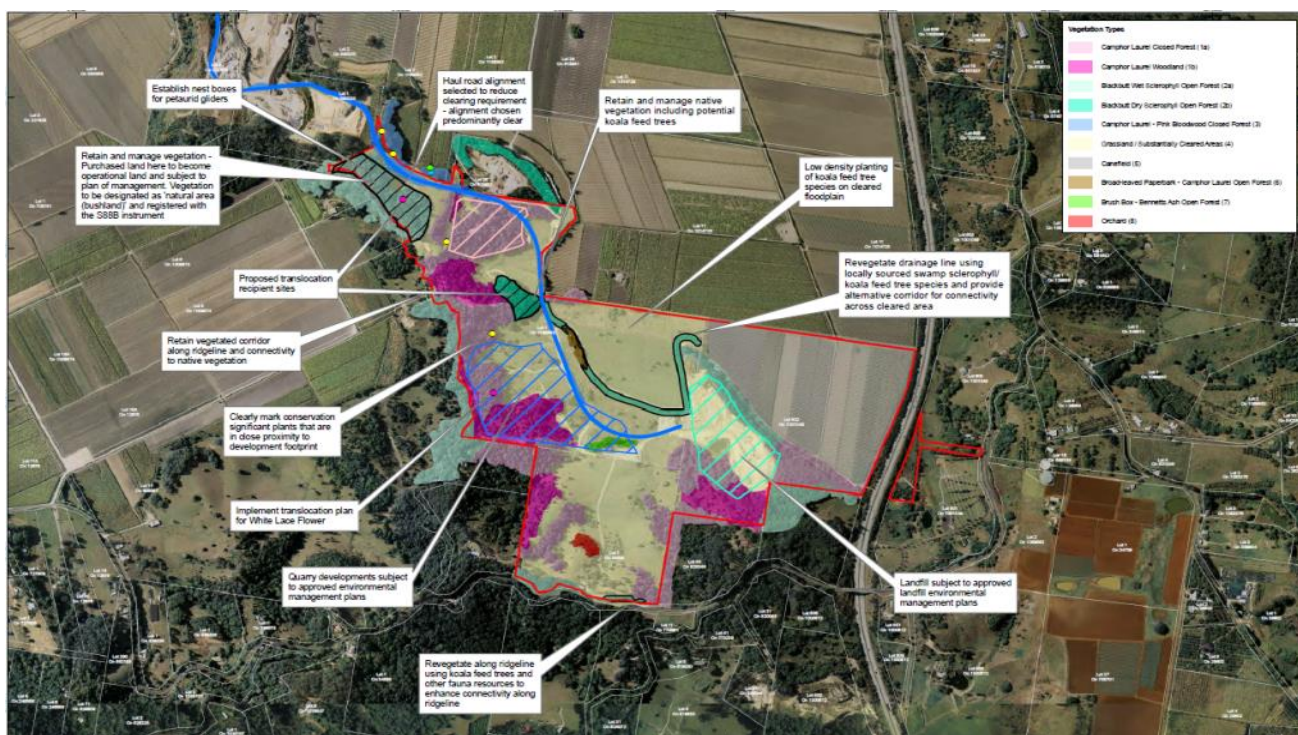


Figure 8 – Biodiversity offset plan.



Figure 9 – Revegetation planting of the Southern Ridgeline Corridor (SRC).



Figure 10 – Revegetation planting of the Northern Riparian Corridor (NRC).

Table 3: Location and details of nest boxes installed at the site

Location	Id.	Box type	Height above Gnd. (m)	Aspect	Tree species	GPS coordinate
Conservation Area 5 (Southern end of north valley)	Tree 1	Small Glider (silver top)	6.0	SSE	Blackbutt	23.30066, 153.50279
as above	Tree 1	Bat Box wedge	7.0	E	Blackbutt	23.30066, 153.50279
as above	Tree 2	Small Glider (silver top)	8.0	SSE	Blackbutt	28.30062, 153.50279
as above	Tree 2	Bat Box Wedge	7.0	W	Blackbutt	28.30062, 153.50279
as above	Tree 3	Bat Box Wedge	7.0	SSW	Blackbutt	28.30096, 153.50299
as above	Tree 3	Small Glider (silver top)	5.0	ESE	Blackbutt	28.30096, 153.50299
Conservation Area 1 (boxes along ridgeline road to Hawkins house)	Tree 4	Bat Box (HLH)	5.5	N	Brushbox	28.29826, 153.49902
as above	Tree 4	Parrot (HLH)	7.0	ESE	Brushbox	28.29826, 153.49902
as above	Tree 5	Small Glider Wedge	5.0	NW	Bloodwood	28.29798, 153.49881
as above	Tree 5	Parrot (HLH)	6.5	SE	Bloodwood	28.29798, 153.49881
as above	Tree 6	Large Parrot	7.0	W	Blackbutt	28.29774, 153.49855
as above	Tree 6	Small Glider wedge	8.0	S	Blackbutt	28.29774, 153.49855



Figure 11: Two of the nest boxes installed at the site.

5. Forward Works Planned for 2018

5.1 Haul Road Construction

Pre-loading of the haul road is to commence in 2018 with works to be undertaken by Council. The pre-loading works would utilise Virgin Excavated Natural Material (VENM) or certified Excavated Natural Material (ENM), but also Excavated Public Road Material (EPRM) left over from Council road construction projects in accordance with the Tweed Shire Council Excavated Road Material Order and Exemption 2016. This Order and Exemption is valid to the 30th May 2018 therefore an extension has been sought to enable the ongoing importation of appropriate material during the construction of the haul road.

Once the pre-load material has compacted and settlement has been completed as per the design requirements, construction of Stage 1 of the haul road would commence.

Installation of stormwater and drainage infrastructure for the haul road will also commence during 2018, however specific timelines are yet to be finalised and are dependent on necessary compaction of pre-load areas as described above.

5.2 Environmental

Environmental monitoring and recording will continue at the site in accordance with the approved Environmental Management Plans submitted to date.

Continual reviews of the timelines for activities will be carried out to ensure they align with the Environmental Management Strategy.

Ongoing maintenance of the biodiversity offset plantings is proposed throughout 2018 which would include follow-up weed control of the NRC and SRC plantings, stem injection of remaining Camphor Laurels in SRC, planting of propagated Swamp Hibiscus, replacement of dead plants and ongoing monitoring.

The second annual follow-up and maintenance review of the nest boxes installed at the site would also be undertaken in Spring 2018. Any required maintenance or repairs will be undertaken at the time of inspection.

In accordance with the requirements of Schedule 6, condition 10, Council is in the process of engaging an environmental auditor to undertake a review of the site and assess its environmental performance. The auditor will also assess whether the project is complying with the relevant requirements of the approval and review the adequacy of the management plans that have been prepared in association with the project.

Although not part of any formal approval requirement, a wild dog management program will also be implemented in the upcoming monitoring period in response to concerns about safety raised by a Council staff member after a wild dog was sighted at the adjacent Eviron Road cemetery. This project will comprise a range of tasks aimed at identifying key wild dog movement corridors and behaviour across the identified properties. The data collected through this project would inform the development of a range of recommendations to guide management, with the view of reducing the risk to Council staff and the tenants that reside in the identified Council managed properties from wild dogs.

6. Monitoring Results Review

6.1 Surface Water Quality

In 2008 Council implemented a baseline surface water monitoring program which occurs in the main drainage channel on the northern boundary of the site, adjacent to Quirks Quarry. This monitoring program comprises three (3) monitoring sites (SW1, SW2 and SW4) (refer Figure 12) which are sampled on a quarterly basis. A suite of parameters are tested during each monitoring event which are outlined in Table 9-7 of the Environmental Assessment. This suite of parameters is generally consistent with the requirements of the Environmental Guidelines: Solid Waste Landfills (EPA 1996).

For the suite of parameters that are monitored, there are currently no specific trigger values, however, the ANZECC/ARMCANZ freshwater guidelines continue to be used as a point of reference. Upon commencement of significant construction works, a range of operational trigger values will be developed for each site based on the collected baseline data. These trigger values would be applicable during quarrying and landfill activities and would feed into the Quarry Plan of Management and Landfill Environmental Plan. It is anticipated that once operations commence, the surface water monitoring program will be a specific requirement in the Environmental Protection Licences for the site.

The results of surface water monitoring and their graphs are provided in Appendix B and C. Surface water monitoring data continues to be considered baseline at this stage as no significant project works have been undertaken at the site. Nonetheless, a summary analysis of data trends to date for each monitoring site has been undertaken which is provided below. A more detailed analysis of data will be undertaken once substantial construction works are undertaken at the site.

SW1

SW1 is a surface water monitoring site with baseline data indicating that surface water in this location is fresh. The pH of surface water at this site varies between slightly acidic and neutral ranging between 5.6 and 6.7. Nutrient values at the site are typically low, however, a spike in BOD, total nitrogen and total phosphorus has been previously recorded in the past which extended over three monitoring periods between 09/08/2011 and 06/02/2012. This period coincides with a similar spike in suspended solids which is likely the result of significant rainfall during this period. The concentration of metals at the site are generally low, however, similar to that described above, a spike in total arsenic, total cadmium, total copper, total manganese and total nickel were all recorded the same rain event period. It is also noted that a spike in total phosphorus was recorded on the 9th August 2017, however, this value had returned to background by the following monitoring event.

SW2

SW2 is a surface water monitoring site with baseline data indicating that surface water in this location is fresh. The pH of surface water at this site varies between strongly acidic and neutral ranging between 5.4 and 7.1. Nutrient values at the site are generally low with total nitrogen ranging between 0.3 and 2.7mg/L throughout the monitoring period. The concentration of metals at the site are also generally low and consistent with baseline monitoring data in the other surface water monitoring sites.

SW4

SW4 is a surface water monitoring site with baseline data indicating that surface water in this location is fresh. The pH of surface water at this site varies between slightly acidic and neutral ranging between 6.2 and 7.0. Nutrient values at the site are generally low with total nitrogen ranging between 0.2 and 2.8mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the other surface water monitoring sites. It is noted, however, that concentrations of manganese and calcium are slightly elevated at this site.

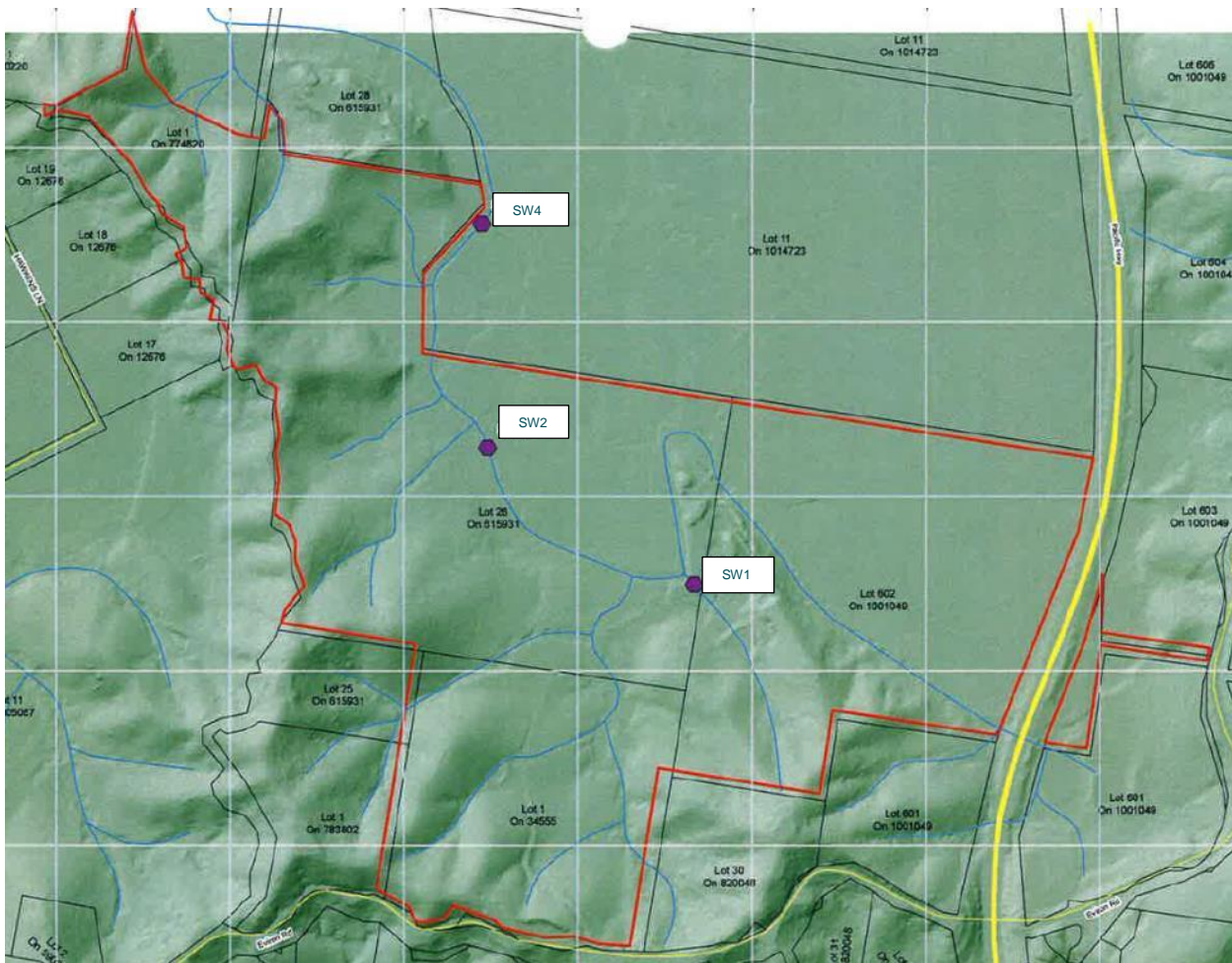


Figure 12 – Eviron surface water monitoring bores.

6.2 Groundwater Water Quality

There are currently nineteen (19) groundwater monitoring bores (refer Figure 13) located on the site which are monitored on a quarterly basis, measuring both groundwater levels and groundwater quality.

Similar to the surface water monitoring program, there are currently no specific trigger values for groundwater at the site, however, the ANZECC/ARMCANZ freshwater guidelines continue to be used as a point of reference. Upon commencement of significant construction works, a range of operational trigger values will be developed for each site based on the collected baseline data. These trigger values would be applicable during quarrying and landfill activities and would feed into the Quarry Plan of Management and Landfill Environmental Plan. It is anticipated that once operations commence, the groundwater monitoring program will be a specific requirement in the Environmental Protection Licences for the site.

The results of groundwater monitoring and their graphs are provided in Appendix B and C. Groundwater monitoring data continues to be considered baseline at this stage as no significant project works have been undertaken at the site. Nonetheless, a summary analysis of data trends to date for each monitoring site has been undertaken which is provided below. A more detailed analysis of data will be undertaken once substantial construction works are undertaken at the site.



Figure 13 – Eviron Groundwater Monitoring Bore locations.

GW1

GW1 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity and alkalinity values which are recorded at the site. The pH of groundwater is slightly acidic ranging between 4.9 and 6.4. Nutrient values at the site are typically low with total nitrogen concentrations ranging between 0.1 and 1.8mg/L. The concentration of metals at this site are also considered to be generally low and stable. Notwithstanding, one monitoring event on the 14/11/2012 recorded a significant spike in total chromium, total copper, total iron, total lead, total aluminium, total calcium, total manganese, total nickel and total zinc. It is noted that the total aluminium, total copper and total iron, total lead, total nickel concentrations were very high during this event reaching 498mg/L, 1.08mg/L and 612mg/L respectively.

GW2

GW2 is an alluvial monitoring site with baseline monitoring data indicating that groundwater in this location is brackish. This is reflected in the relatively high concentration of conductivity, alkalinity, bicarbonate, total sodium, total chloride, and total calcium recorded at the site. Given the brackish nature of the groundwater, pH values at this site are generally neutral and stable, ranging between 6.7 and 7.1 throughout the monitoring period. Nutrient values at the site are generally low and stable, however, one moderate spike in concentration was recorded on the 09/02/2015 which is reflected in the results for ammonia, BOD, TKN and total nitrogen. The concentrations of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data.

GW4

GW4 is an alluvial monitoring site with baseline monitoring data indicating that groundwater in this location is brackish. This is reflected in the relatively high concentration of conductivity, alkalinity, bicarbonate, total sodium, total chloride, and total calcium recorded at the site. Given the brackish nature of the groundwater, pH values at this site are generally neutral to slightly alkaline, ranging between 6.9 and 7.5 throughout the monitoring period. Nutrient values at the site are generally low and stable, however, one significant spike in concentration was recorded on the 09/02/2015 which is shown in the results for ammonia, BOD, TKN, total nitrogen and total phosphorus. An additional moderate spike in nutrient values was also recorded at this site during the 2016 monitoring period. The concentrations of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data.

GW5

GW5 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity, alkalinity and bicarbonate values which are recorded at the site. The pH of groundwater is strongly to extremely acidic ranging between 3.8 and 5.4. Nutrient values at the site are typically low with Total Nitrogen concentrations ranging between 0.3 and 4.1mg/L. The concentrations of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data. Notwithstanding, the concentration of manganese at this location is considered to be high.

GW6

GW6 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity, alkalinity and bicarbonate values which are recorded at the site. The pH of groundwater varies between strongly acidic to slightly acidic ranging between 5.1 and 6.3. Nutrient values at the site are generally low and stable, however, one moderate spike in concentration was recorded on the 09/02/2015 which is reflected in the results for ammonia, BOD, TOC, TKN and total nitrogen. The concentrations of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data. Notwithstanding, the concentration of nickel and zinc at this location appear high relative to background levels.

GW7

GW7 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity, alkalinity and bicarbonate values which are recorded at the site. The pH of groundwater varies between strongly acidic to extremely acidic ranging between 4.2 and 5.5. Nutrient values at the site are generally low and stable, however, one moderate spike in concentration was recorded on the 13/02/2013 which is reflected in the results for BOD, nitrate, oxidised nitrogen, TOC, TKN and total nitrogen. The concentrations of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data. Notwithstanding, a significant spike the concentration zinc was recorded on the 10/11/2015 (80mg/L), however, this is thought to be an error in the data entry and should be further investigated.

GW8

GW8 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity, alkalinity and bicarbonate values which are recorded at the site. The pH of groundwater varies between moderately acidic and neutral ranging between 5.7 and 6.6. Nutrient values at the site are generally low and stable, with total nitrogen ranging between 0.6 and 3.1mg/L throughout the monitoring period. The concentrations of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data. Notwithstanding, a significant spike the concentration nickel was recorded on the 13/11/2012 at this location which was high relative to background levels.

An anomaly is observed in temperature data which shows a spike of 218 degrees on the 13/02/1013. This is a data entry error and the correct value should be 21.8.

GW9

GW9 is an alluvial monitoring site with baseline data indicating that groundwater at this site ranges between fresh and brackish. This is reflected in the elevated conductivity, sodium and chloride levels, however, it is noted that the alkalinity and bicarbonate values are generally low. The pH of groundwater varies between very strongly acidic and slightly acidic ranging between 4.8 and 6.2. Nutrient values at the site are generally low and stable, with total nitrogen ranging between 0.2 and 1.1mg/L throughout the monitoring period. The concentration of metals at the site are generally consistent with baseline monitoring data in the surrounding area, however, it is noted that total lead concentrations were slightly elevated at this site.

GW10

GW10 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity levels recorded during the monitoring period. The pH of groundwater varies between very strongly acidic and slightly acidic ranging between 4.8 and 6.3. Nutrient values at the site are generally low although slightly elevated against other surrounding baseline monitoring sites with total nitrogen ranging between 0.2 and 4.4mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area, however, a spike was recorded at the site which occurred on the 12/11/2013 and saw temporary elevated levels of chromium, aluminium, arsenic, copper, iron, lead, nickel and zinc. In addition, it is also noted that a significant spike in conductivity occurred on the 11/08/2015 which also coincided with spikes in chloride, sulfate, calcium, magnesium, manganese, nickel and sodium, and a drop in pH.

GW11

GW11 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity and alkalinity levels recorded during the monitoring period. The pH of groundwater varies between very strongly acidic and moderately acidic ranging between 4.1 and 5.7. Nutrient values at the site are generally low although slightly elevated against other surrounding baseline monitoring sites with total nitrogen ranging between 0.4 and 3.06mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area, however, a low level spike was recorded at the site on the 14/05/2014 which saw a short-term spike in the level of total aluminium, total chromium, total copper, total iron, total lead, total manganese, total nickel and zinc.

GW14

GW14 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity and alkalinity levels recorded during the monitoring period. The pH of groundwater at this site is the lowest of all monitoring sites varying between extremely acidic and very strongly acidic ranging between 3.7 and 4.9. Nutrient values at the site are generally low with total nitrogen ranging between 0.5 and 3.5mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area, however, slightly elevated levels of total aluminium, total chromium, total lead, total iron and total copper were recorded at the site during a low level spike that occurred on the 14/11/2012.

GW15

GW15 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity and alkalinity levels recorded during the monitoring period. The pH of groundwater at this site varies between moderately acidic and slightly acidic ranging between 5.6 and 6.9. Nutrient values at the site are generally low although two slightly elevated spikes were recorded on the 14/05/2014 and 11/11/2015. Total nitrogen concentrations at the site ranged between 0.2 and 6.4mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area.

GW16

GW16 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity and alkalinity levels recorded during the monitoring period. The pH of groundwater at this site varies between very strongly acidic and neutral ranging between 4.6 and 6.8. Nutrient values at the site are generally low although slightly elevated against other surrounding baseline monitoring sites with total nitrogen ranging between 0.2 and 5.5mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area. It is noted that the concentration of calcium is generally very low, although a very high spike in concentration was recorded on the 08/11/2011.

GW17

GW17 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. The pH of groundwater at this site varies between strongly acidic and slightly acidic ranging between 5.3 and 6.2. Nutrient values at the site are generally low with total nitrogen ranging between 1.1 and 2.4mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area, however, it is noted that total arsenic, total chromium and calcium concentrations are slightly elevated.

GW19

GW19 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. The pH of groundwater at this site varies between moderately acidic and slightly alkaline ranging between 5.9 and 7.5. Nutrient values at the site are generally very low with total nitrogen ranging between 0.4 and 0.7mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area.

GW20

GW20 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh, although close to approaching brackish. This is reflected in the slightly elevated conductivity, alkalinity and bicarbonate levels recorded at the site. The pH of groundwater at this site varies between neutral and slightly alkaline ranging between 6.8 and 7.6. Nutrient values at the site are generally very low with total nitrogen ranging between 0.07 and 0.9mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area. It is noted that the concentration of anions and cations are moderately elevated at this site including calcium, fluoride, zinc, sodium, sulfate and potassium.

GW21

GW21 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh which is reflected in the low conductivity levels recorded at the site. The pH of groundwater at this site varies between strongly acidic and neutral ranging between 5.3 and 6.6. Nutrient values at the site are very low with total nitrogen ranging between 0.05 and 0.3mg/L throughout the monitoring period. The concentration of metals at the site are also generally low and consistent with baseline monitoring data in the surrounding area. Of note at this site is the short term spike in alkalinity and bicarbonates recorded at the site during the 08/02/2016. This spike is in the order of 10 times that of the typical baseline levels and may be the result of an error in data entry.

GW22

GW22 is a bedrock monitoring site with baseline data indicating that groundwater at this site is slightly brackish as reflected in the elevated conductivity, alkalinity and bicarbonate levels recorded at the site. The pH of groundwater at this site is neutral, ranging between 6.5 and 7.0. Nutrient values at the site are generally very low with total nitrogen ranging between 0.2 and 1.05mg/L throughout the monitoring period. The concentration of metals at the site are also generally low and consistent with baseline monitoring data in the surrounding area. It is noted that elevated concentration of anions and cations are present at site including calcium, fluoride, sodium, sulfate and potassium.

GW23

GW23 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. The pH of groundwater at this site varies between moderately acidic and neutral ranging between 6.0 and 6.8. Nutrient values at the site are very low with total nitrogen ranging between 0.05 and 0.8mg/L throughout the monitoring period. The concentration of metals at the site are also generally low and consistent with baseline monitoring data in the surrounding area. It is noted that the concentration of some anions and cations at the site are slightly elevated above other baseline sites, including calcium, chloride, fluoride and sodium.

6.3 Meteorological Station

Condition 9 of Schedule 3 of Project Approval 08_0068 requires that a meteorological station be situated on the site to continuously monitor air temperature, wind direction, wind speed, rainfall and relative humidity (refer Figure 2 and Appendix A). The data captured from the station is used to identify any impacts that weather has on other parameters being monitored for the project and is also useful for assisting in reviewing ways to minimise potential impacts.

Data capture from the meteorological station located on the site continued throughout part of 2017 until the March 30 flood event when the meteorological station was lost. This flood event was unprecedented and the largest flood event on record in the Tweed.

A new weather station has been installed at the site to replace the previous one and is now operational as of January 2018. During the down period between the loss of the old station and the installation of the new, weather data was taken from the Bureau of Meteorology’s north Murwillumbah weather station.

Meteorological data captured for the 2017 reporting period is summarised in Appendix D.

6.4 Complaints

To date there have been no complaints related to the project.

7. Identification of Non-Compliance and Actions

A summary of non-compliance and actions for the reporting period is provided below.

Condition	Non-Compliance	Discussion and Actions
Schedule 6 Condition 10	Independent Environmental Audit	<p>This condition requires that an independent environmental audit is to be undertaken one year after approval and every subsequent three years. Substantial works have only recently commenced at the site and therefore prior to this there was no potential risk to the environment.</p> <p>Correspondence was sent to DoPE in 2016 and 2017 seeking that this condition be relaxed to require that an independent audit be undertaken within 12 months of commencement of Stage 1 of the project, being the construction of the haul road.</p> <p>Construction works for the haul road commenced in August 2017, therefore an independent environmental auditor is in the process of being engaged to undertake a review of the project. The audit will be completed by 31st August 2018.</p>

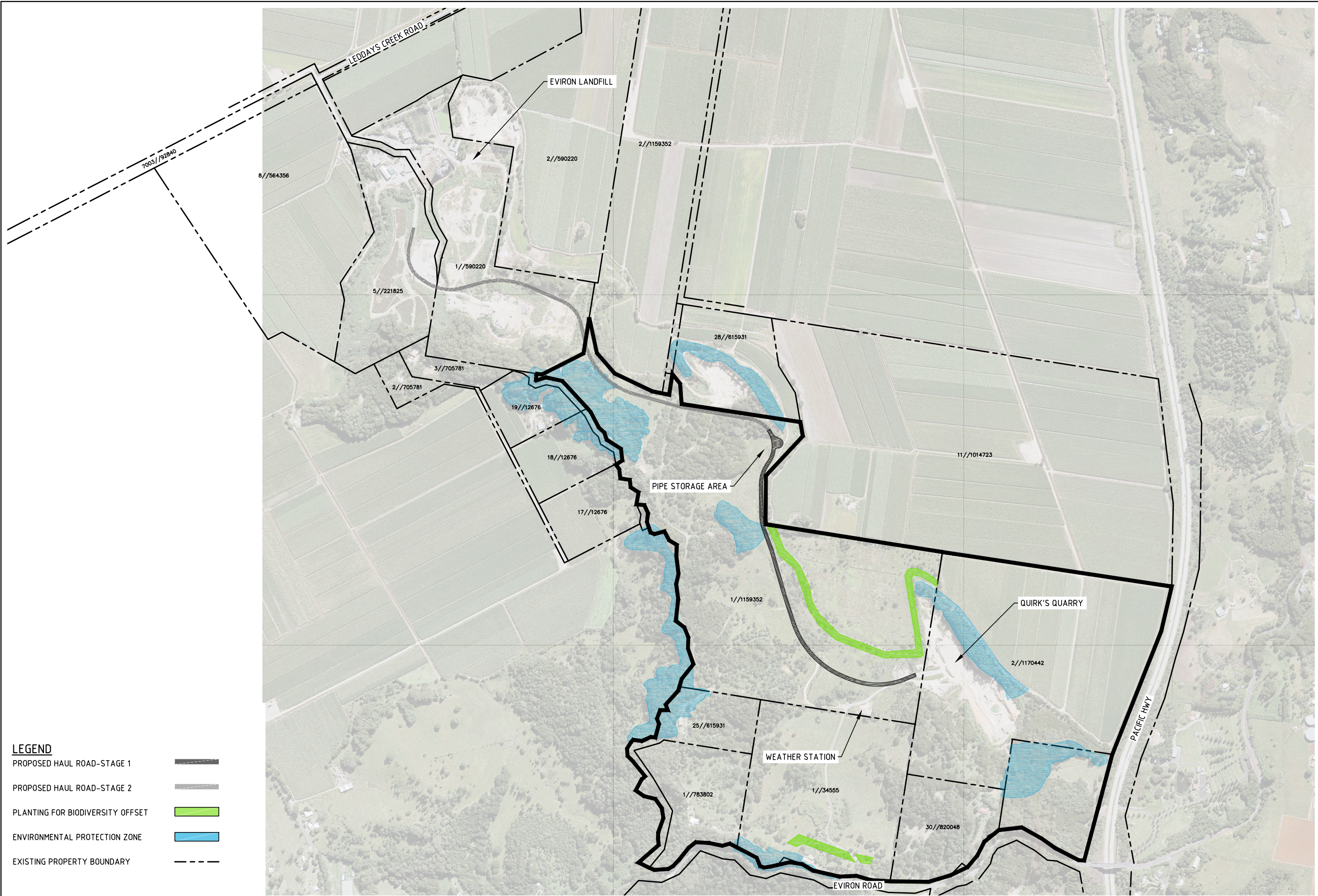
8. Impact Assessment

Substantial works are yet to be carried out at the site, therefore no discrepancies have been identified against the relevant predictions in the Environmental Assessment.

9. Improvement Program

As the project moves into the construction and operation phases, a detailed analysis of operational data will be undertaken against baseline data for assessment against predictions of the Environmental Assessment.

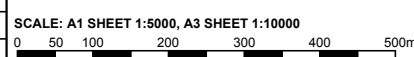
Appendix A – Site Plan



LEGEND

PROPOSED HAUL ROAD-STAGE 1	
PROPOSED HAUL ROAD-STAGE 2	
PLANTING FOR BIODIVERSITY OFFSET	
ENVIRONMENTAL PROTECTION ZONE	
EXISTING PROPERTY BOUNDARY	

PRELIMINARY
NOT FOR CONSTRUCTION



DESIGN UNIT
COUNCIL OFFICES
TUMBULGUM ROAD,
MURWILLUMBAH NSW 2484.
PHONE 02 66702400
FAX 02 66727513
WEBSITE www.tweed.nsw.gov.au



DESIGNED	A.D.	22.03.17	COORDS ADOPTED	PM 124179
CHECKED	W.K.	22.03.17	EASTING	548869.775
HORIZONTAL DATUM	MGA	NORTHING	6869228.643	
VERTICAL DATUM	AHD	R.L.	1.252	

PROJECT: **EVIRON ROAD, EVIRON QUIRKS QUARRY TO STOTTS LANDFILL HAUL ROAD**

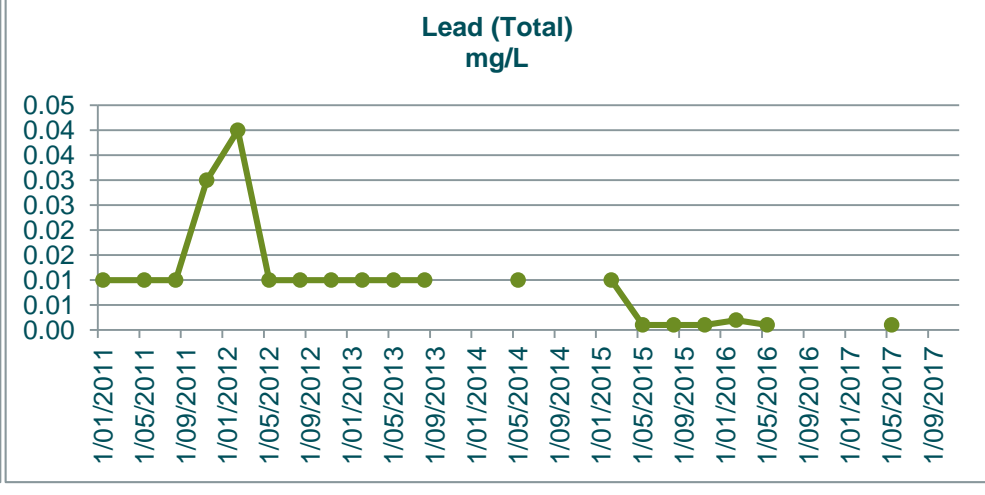
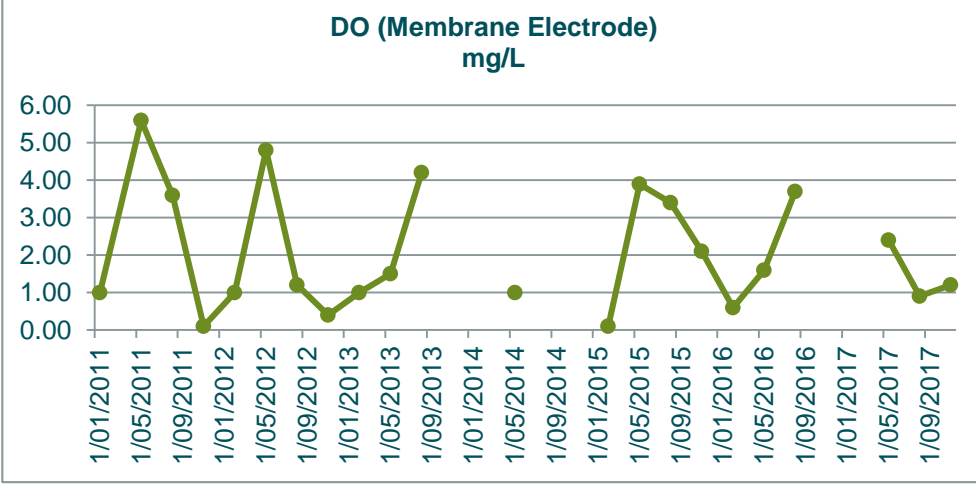
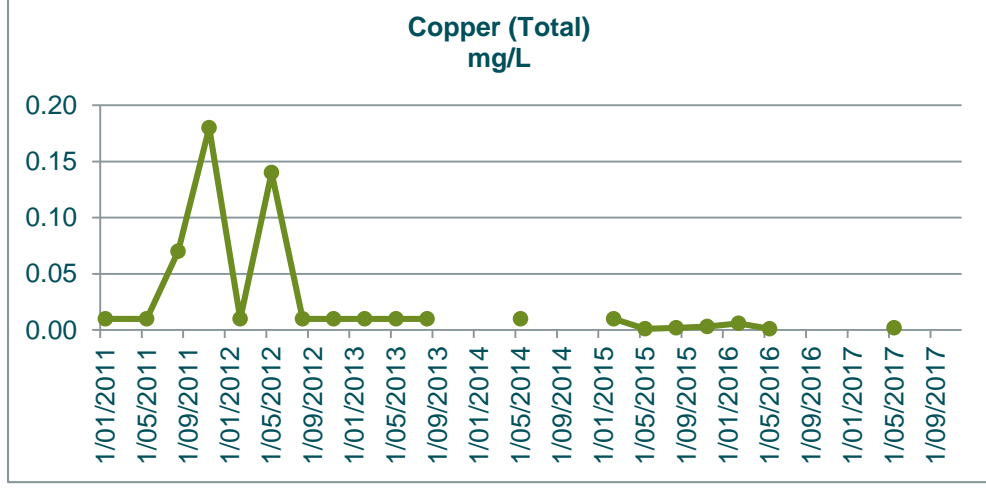
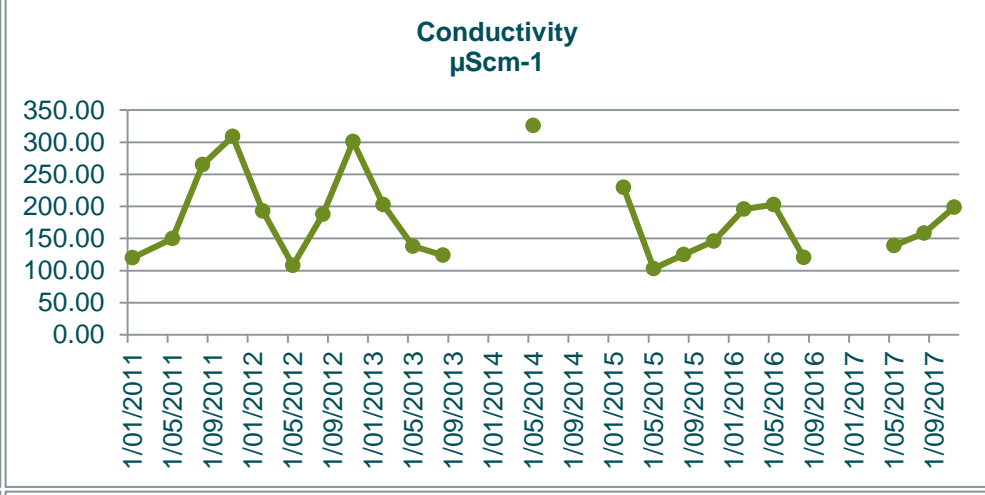
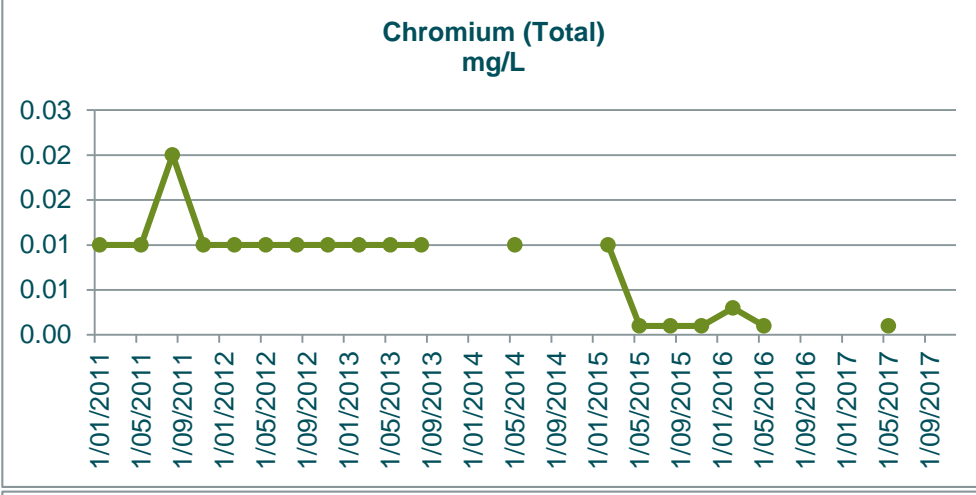
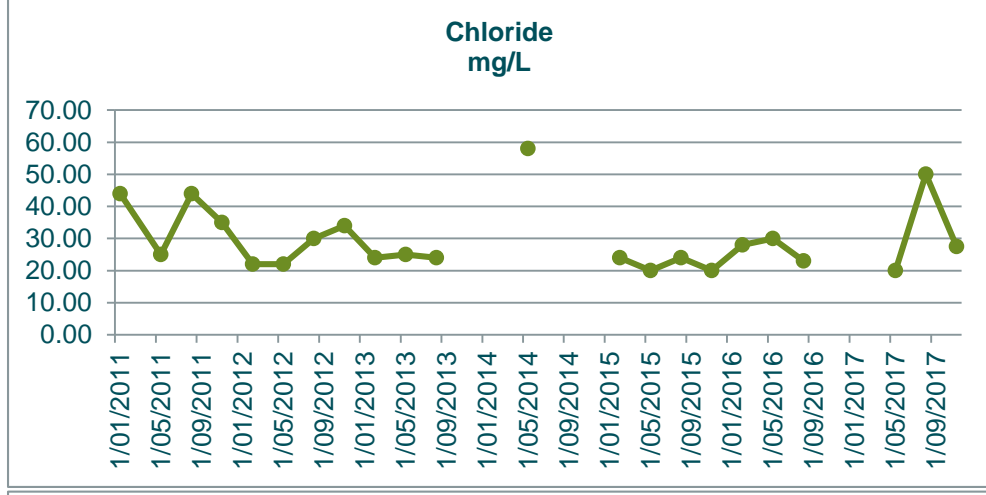
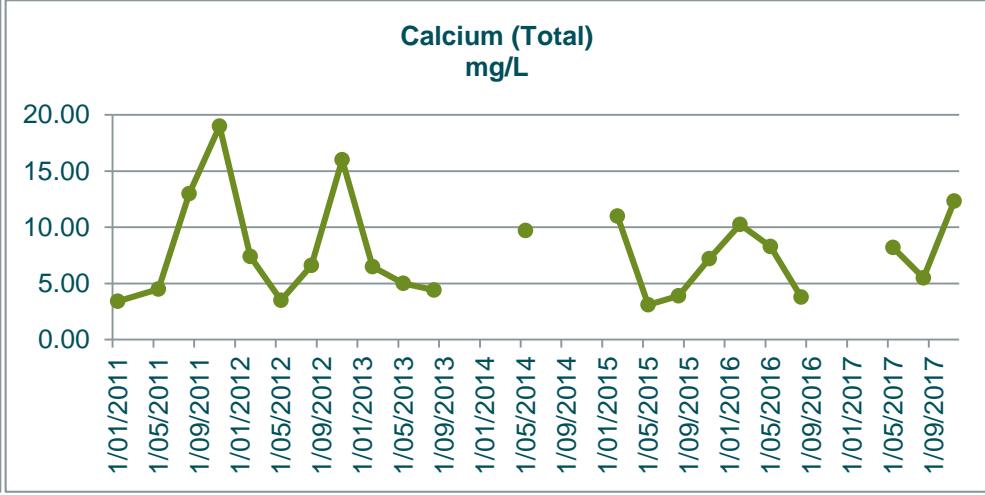
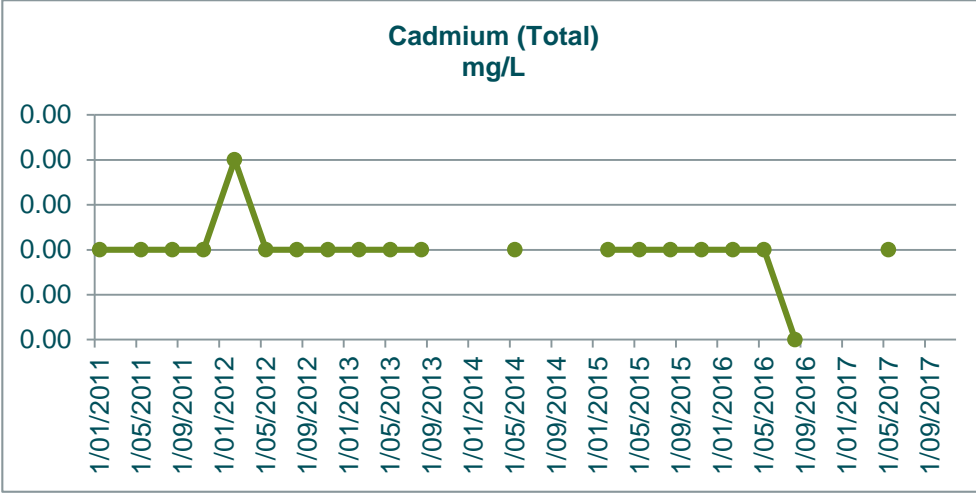
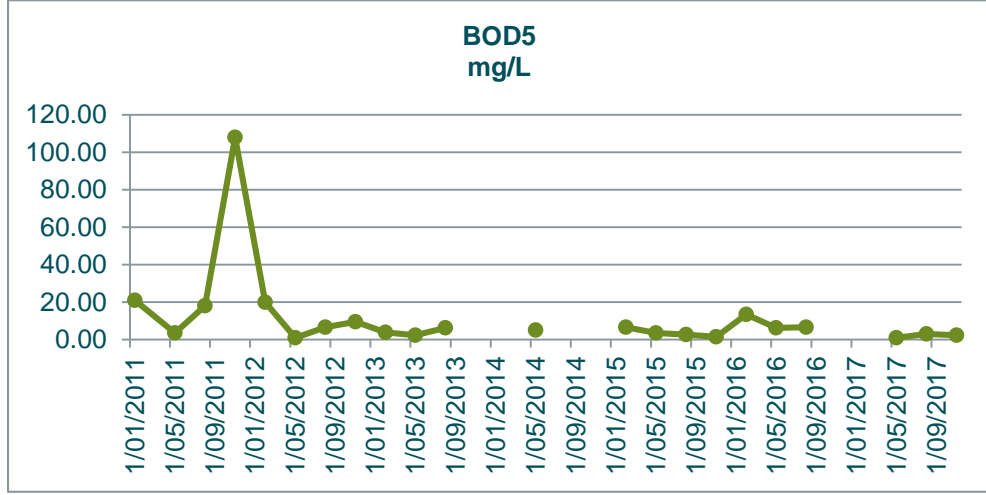
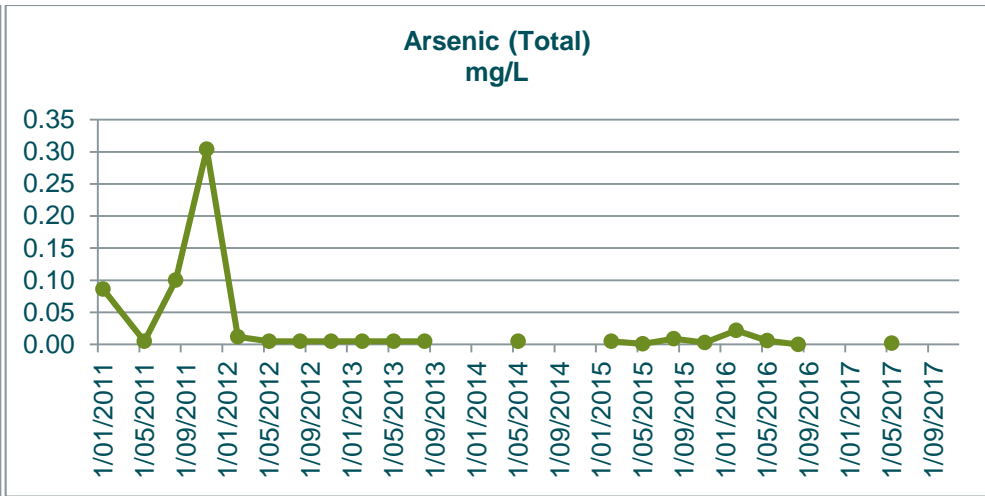
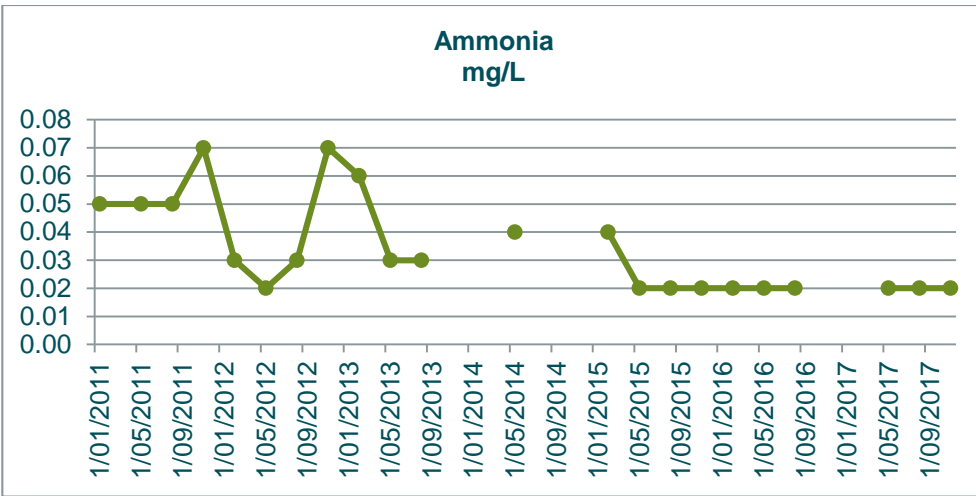
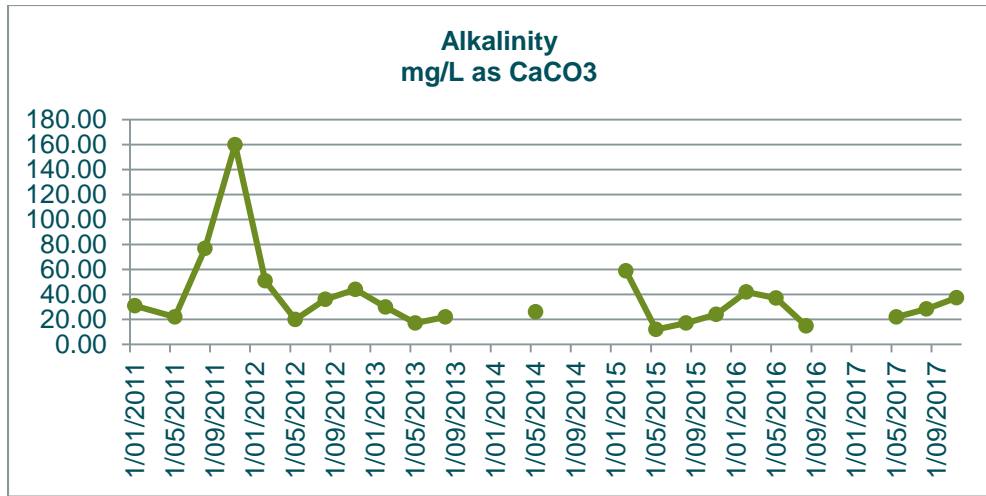
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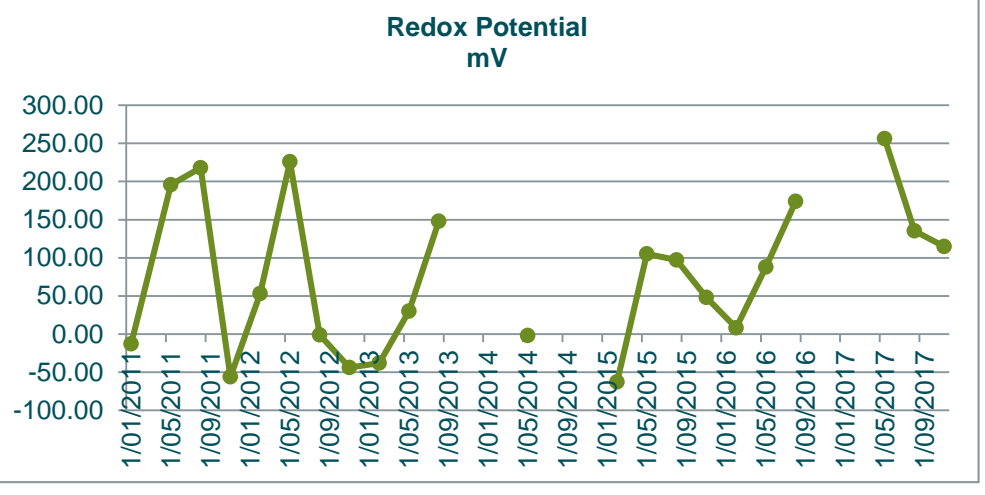
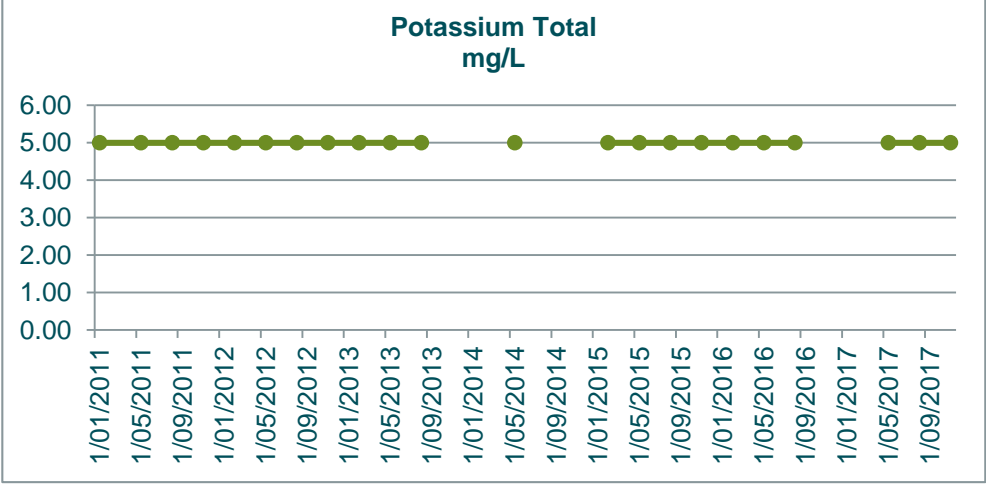
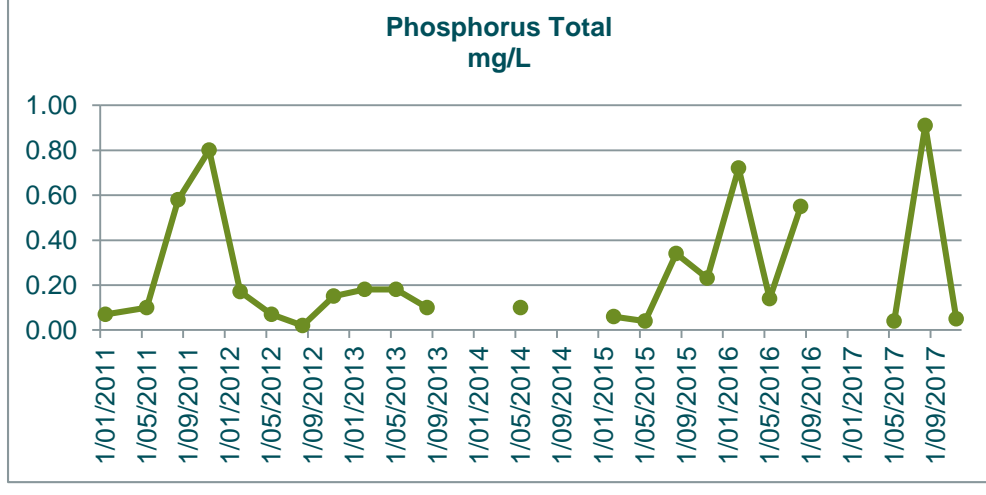
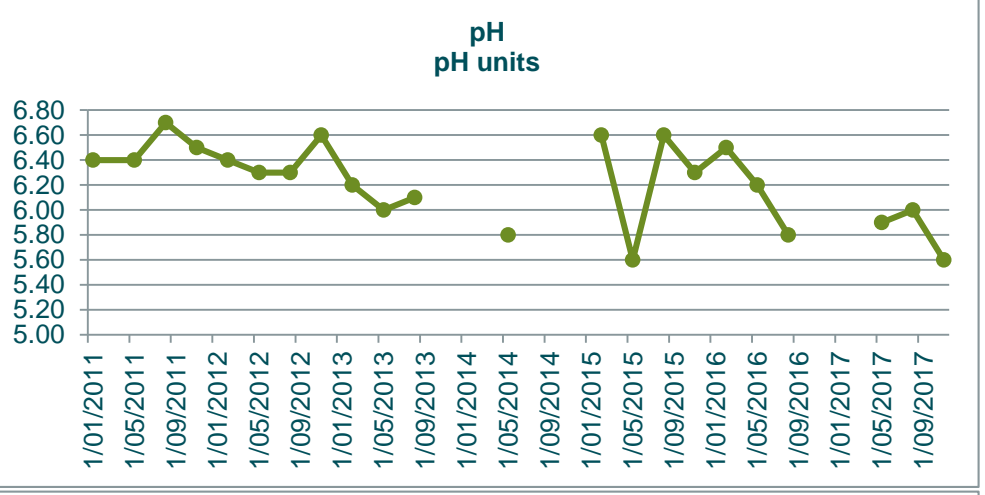
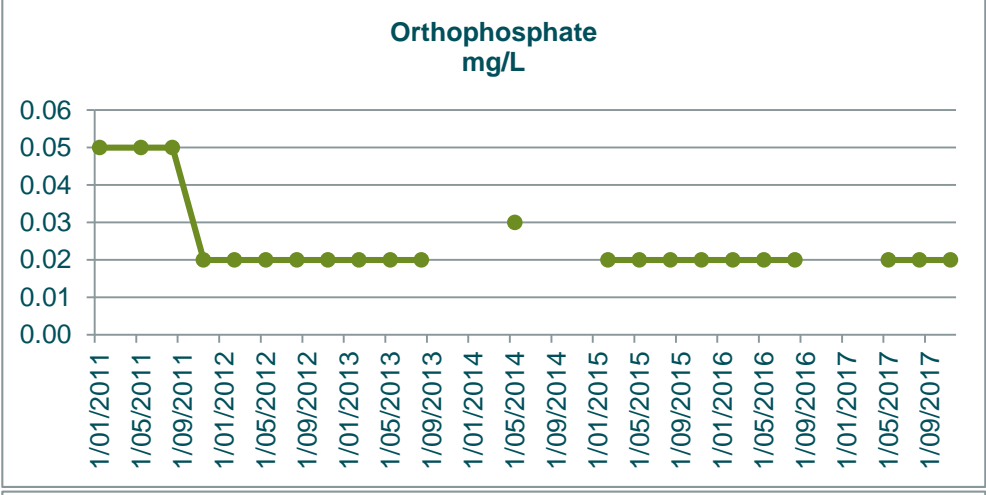
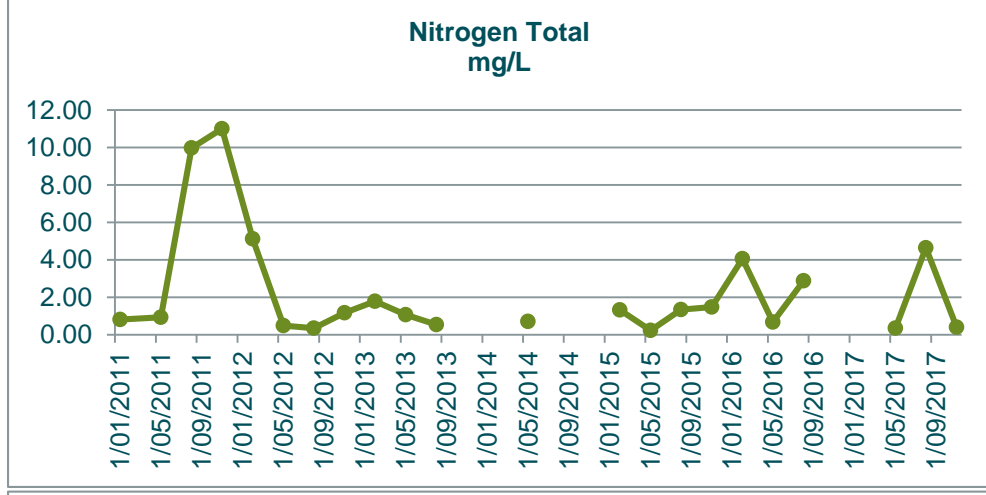
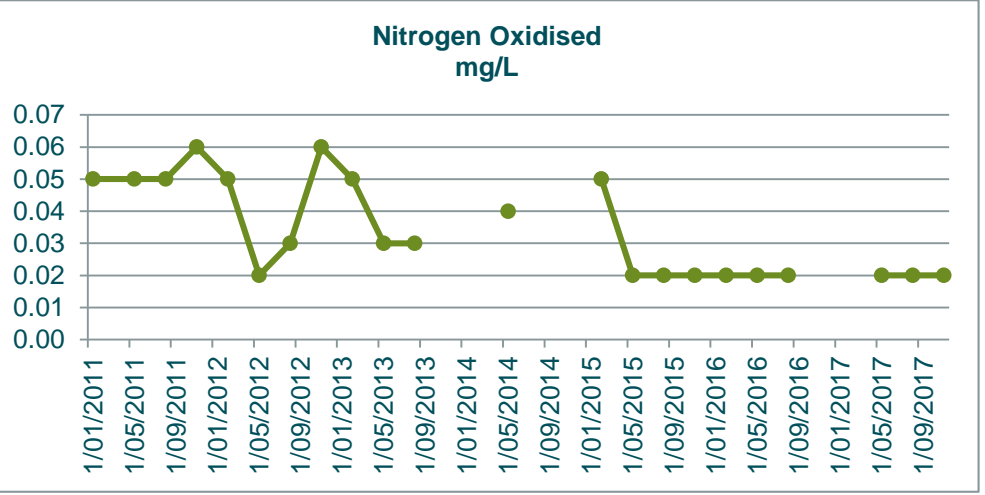
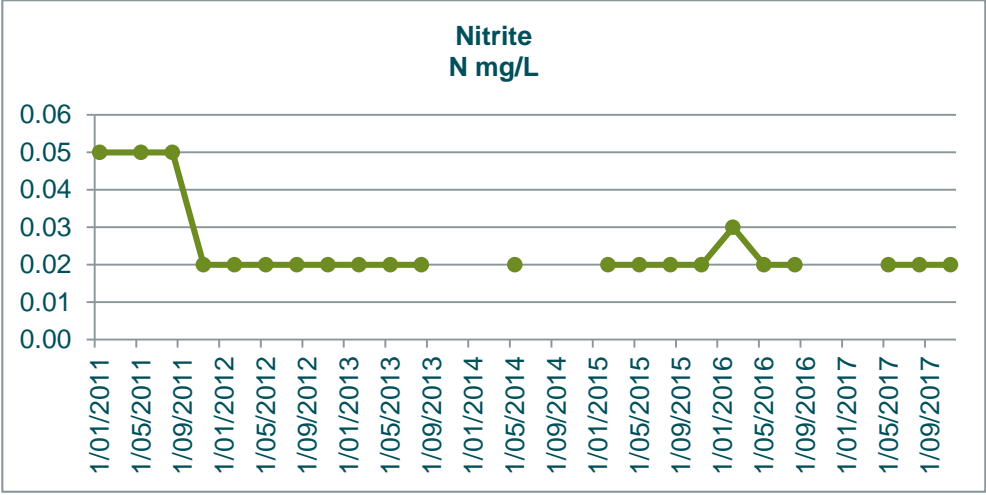
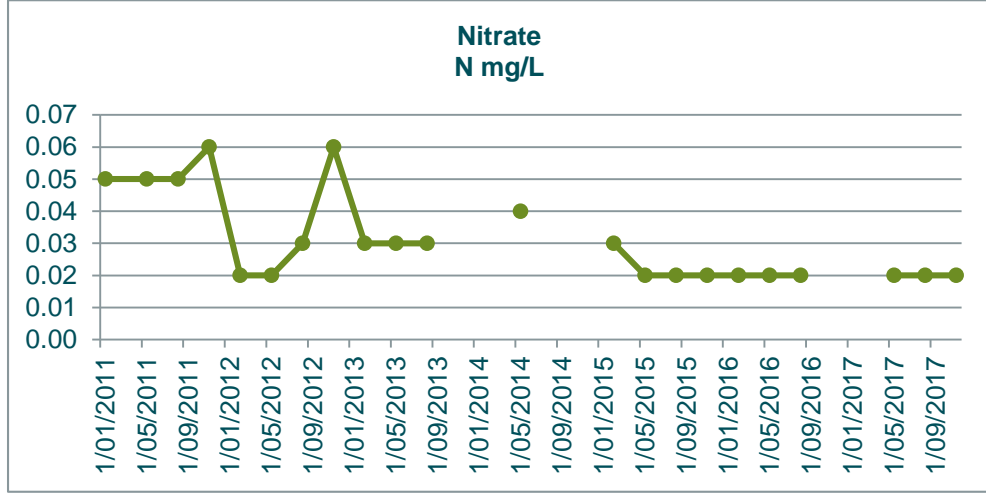
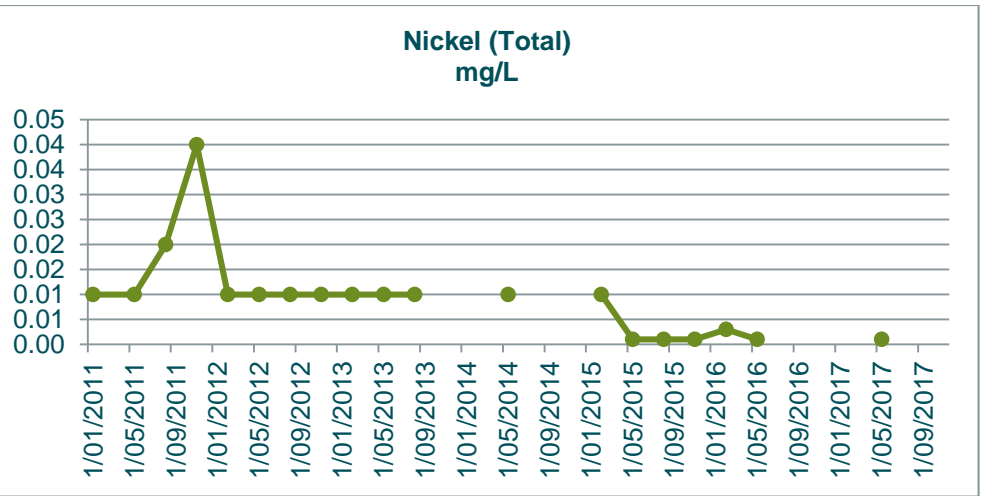
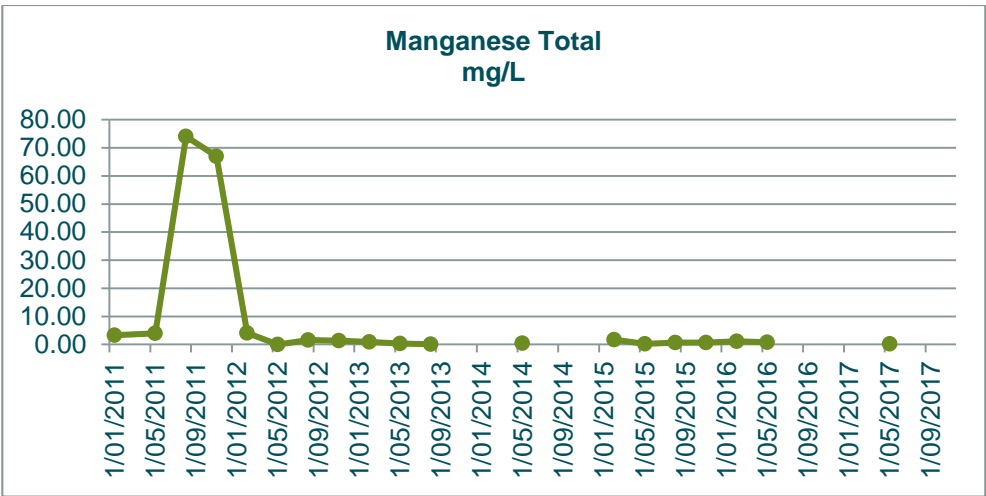
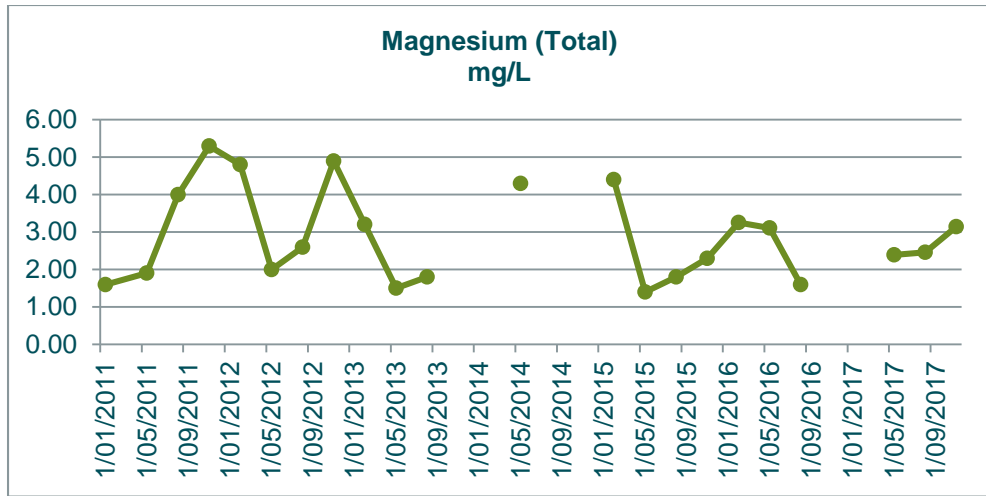
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DRAWING NUMBER	INF7-SK-10
ISSUE	A

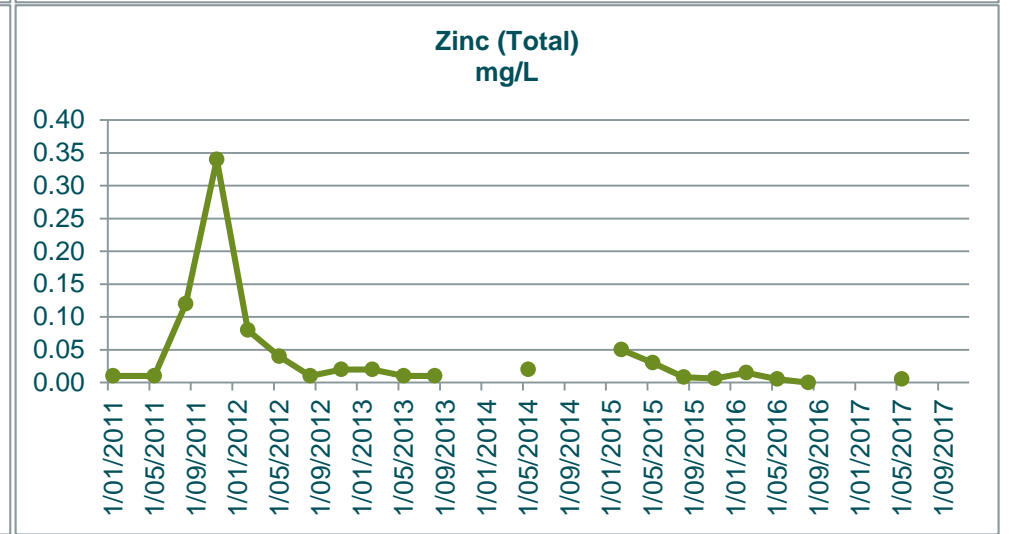
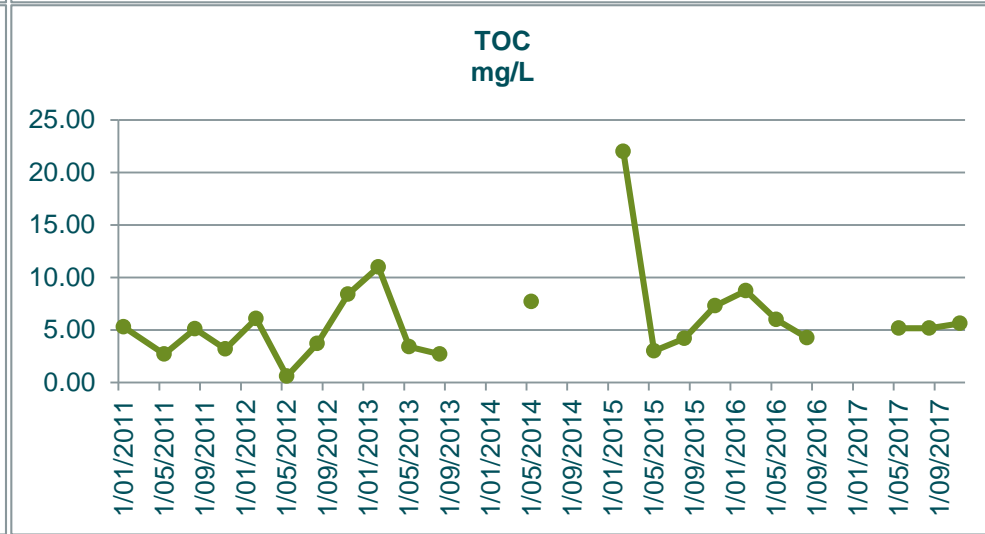
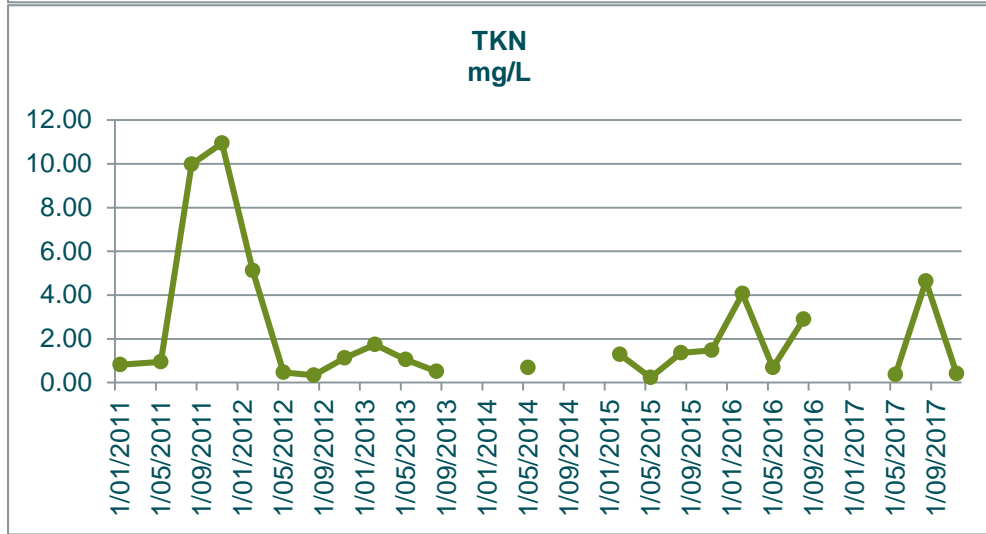
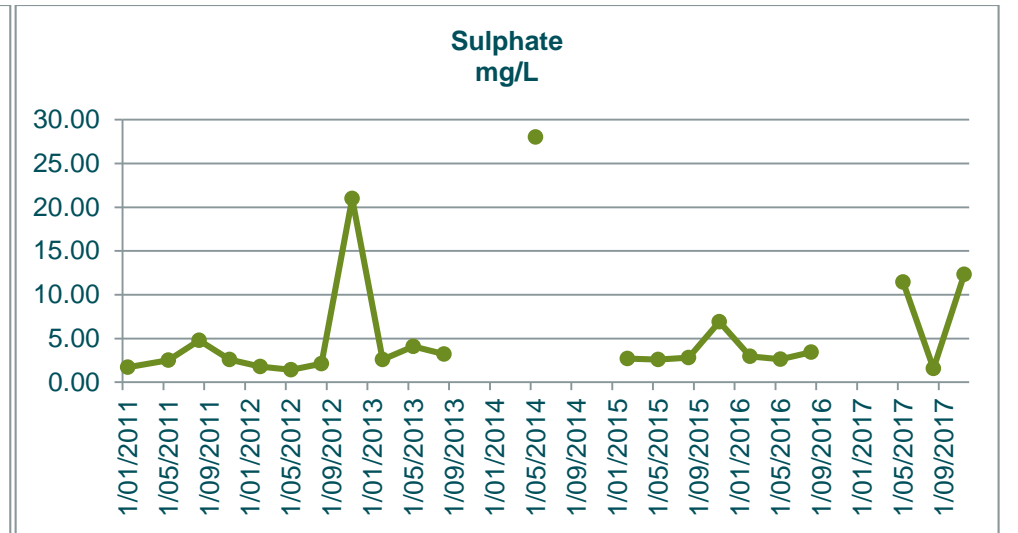
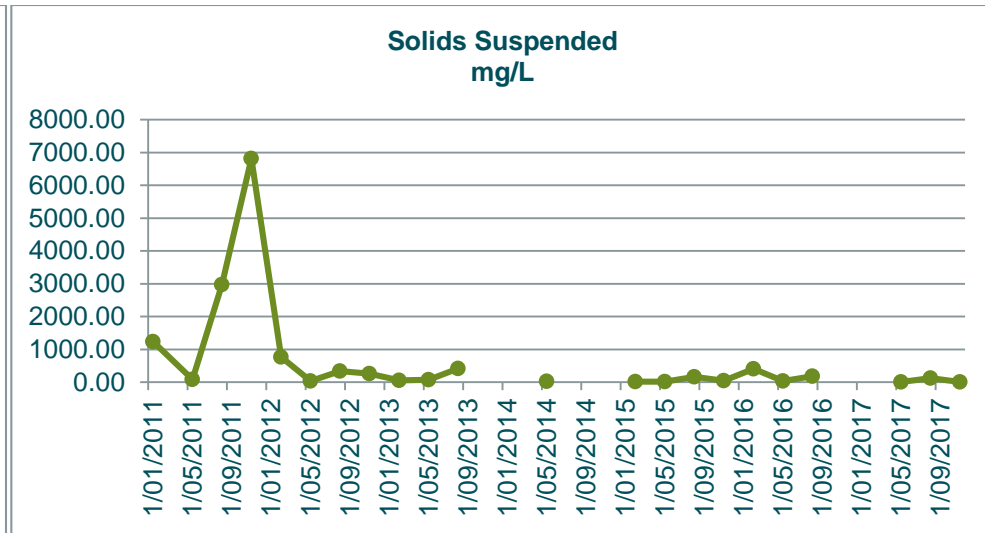
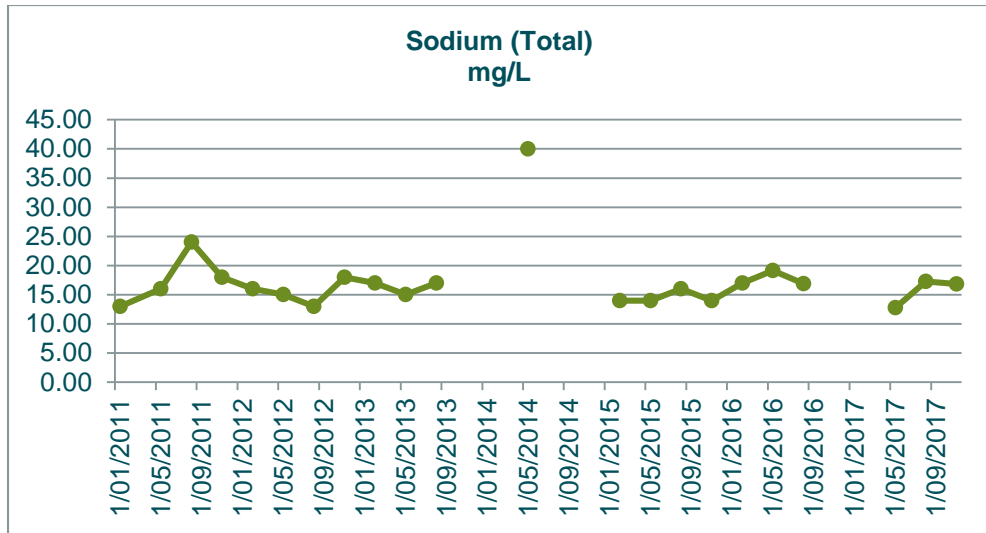
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Appendix B – Monitoring Data

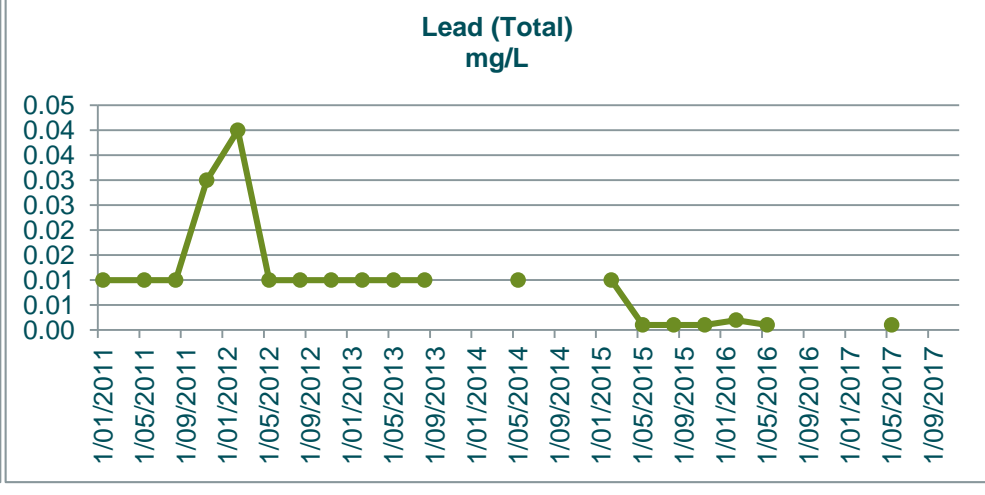
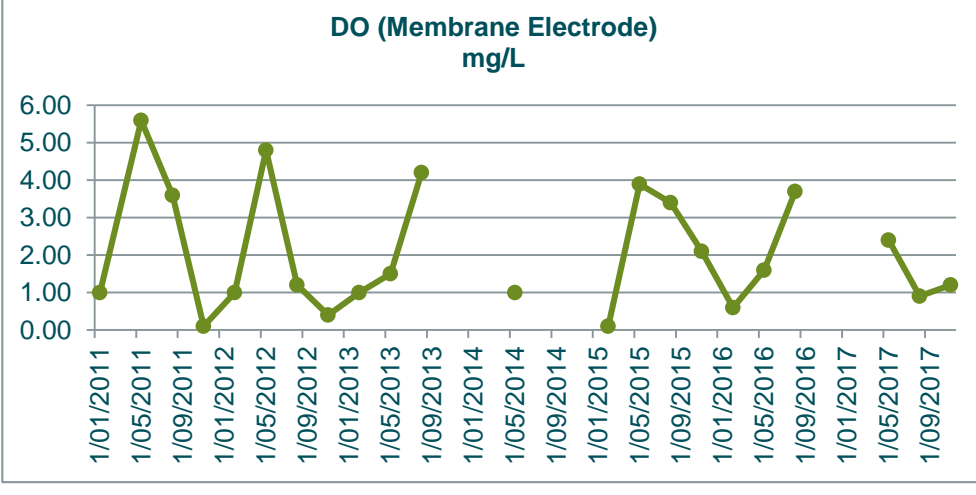
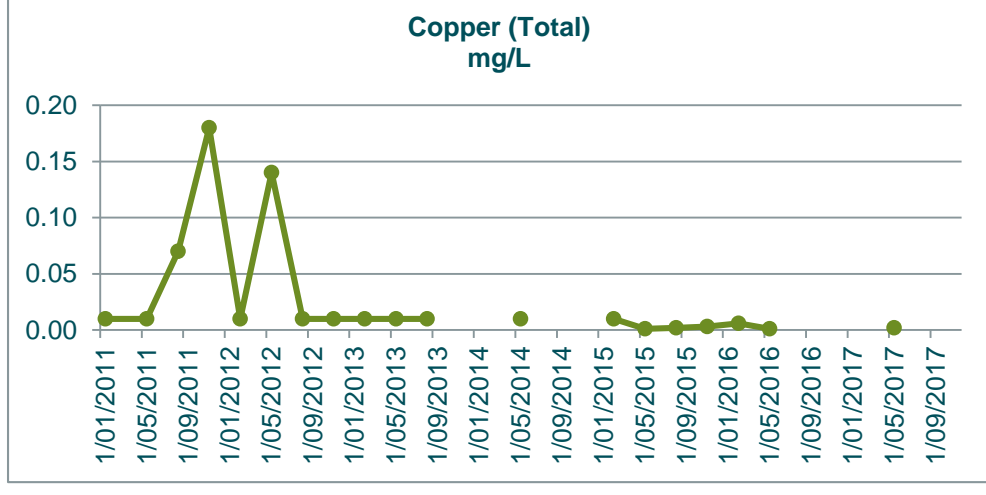
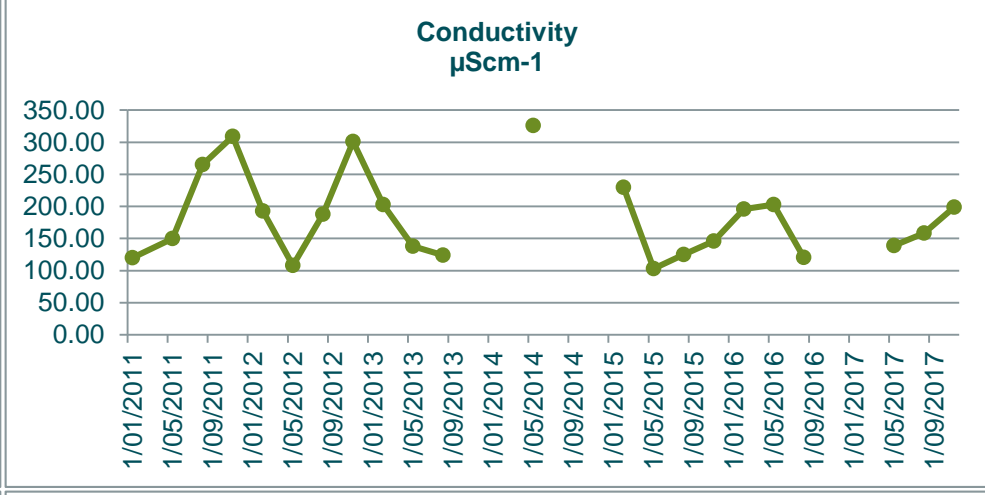
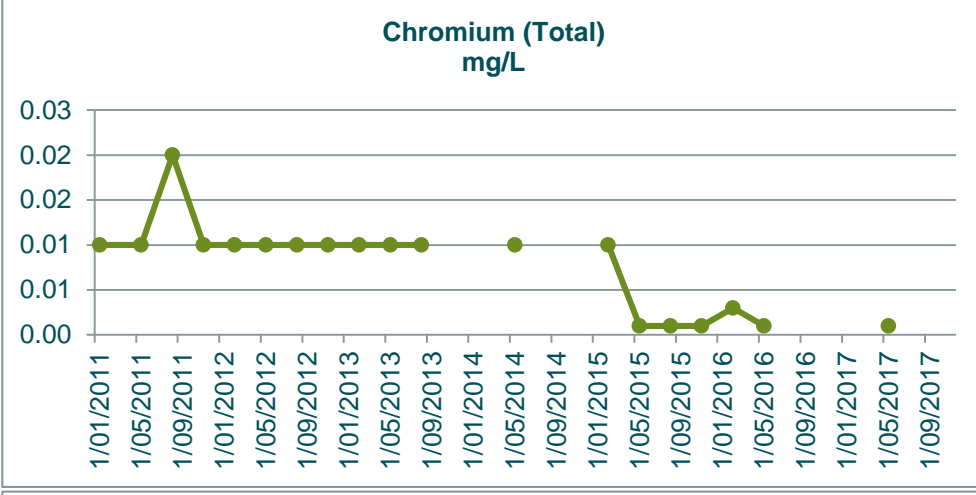
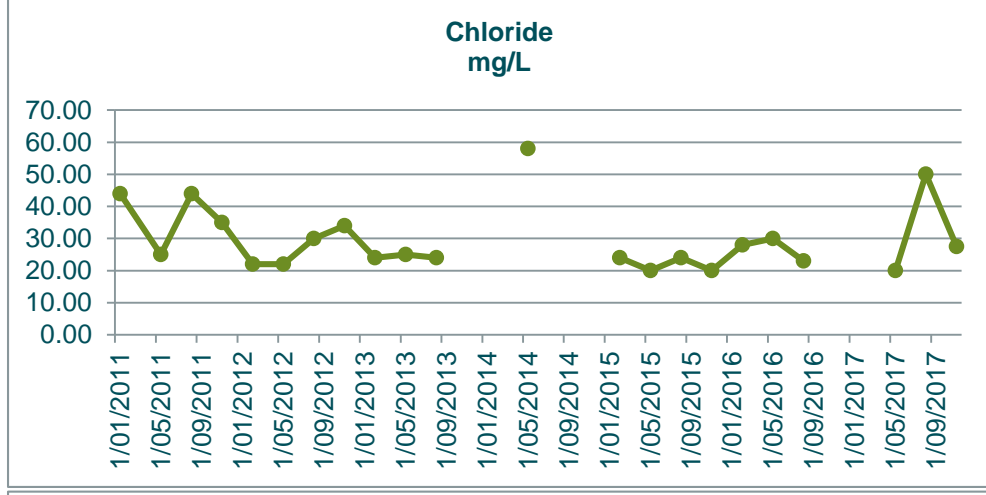
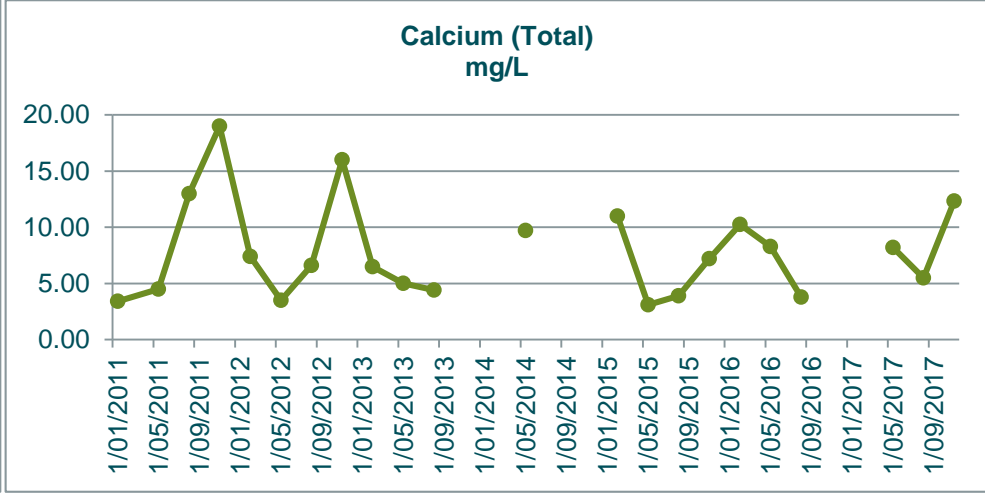
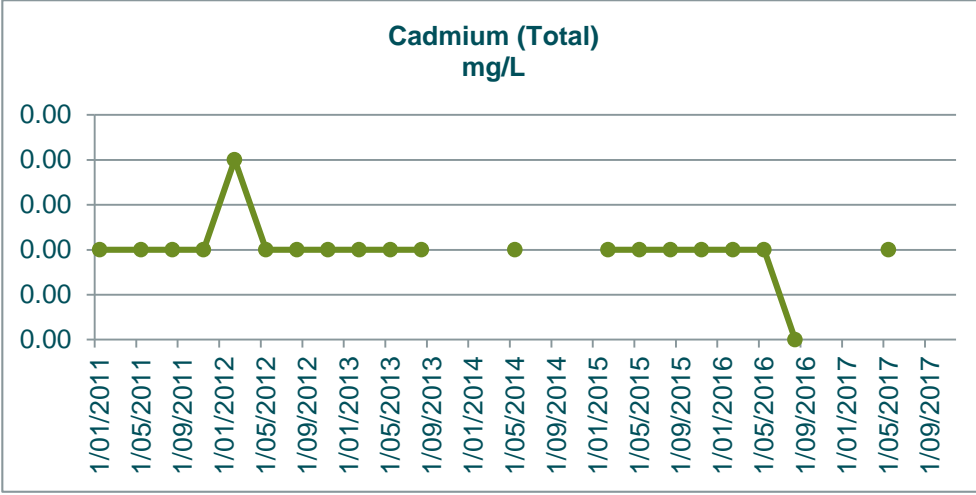
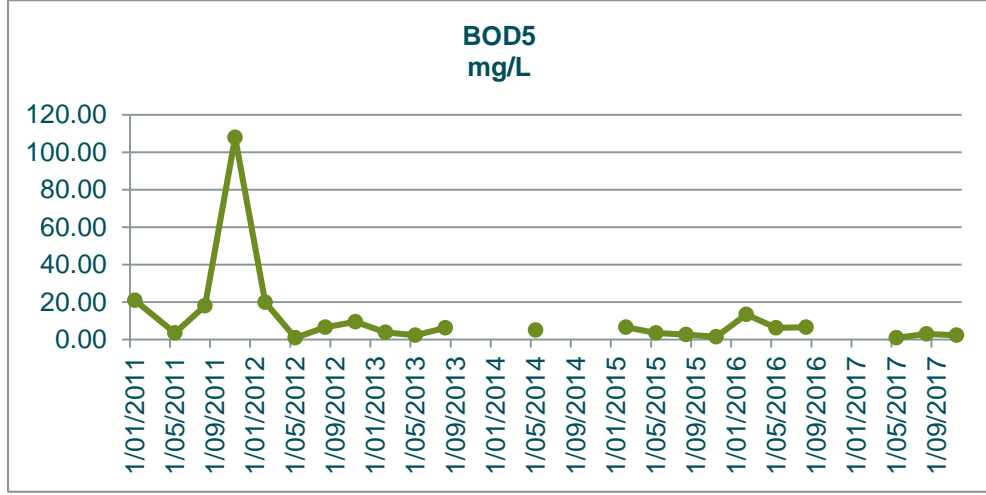
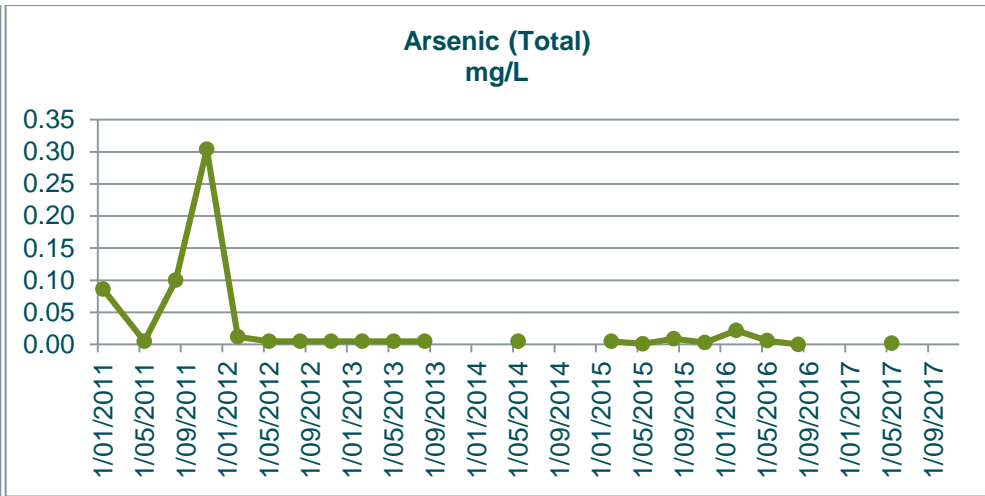
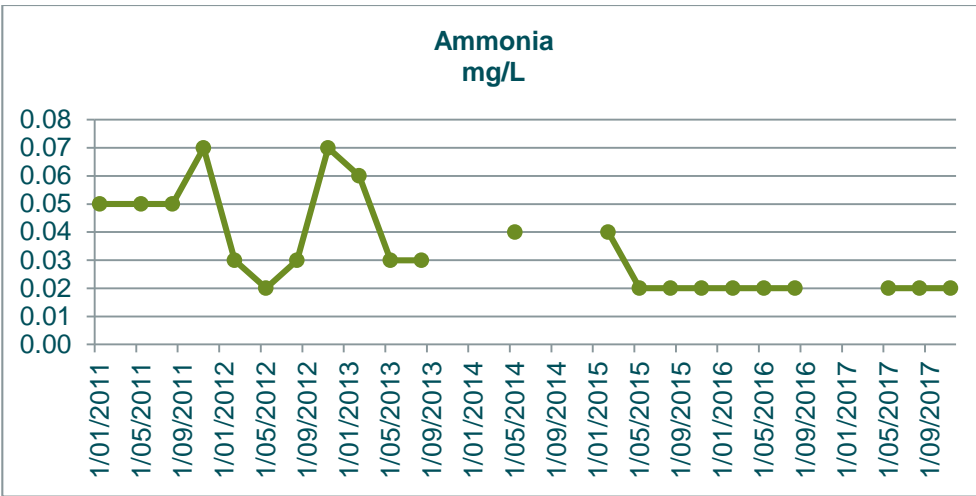
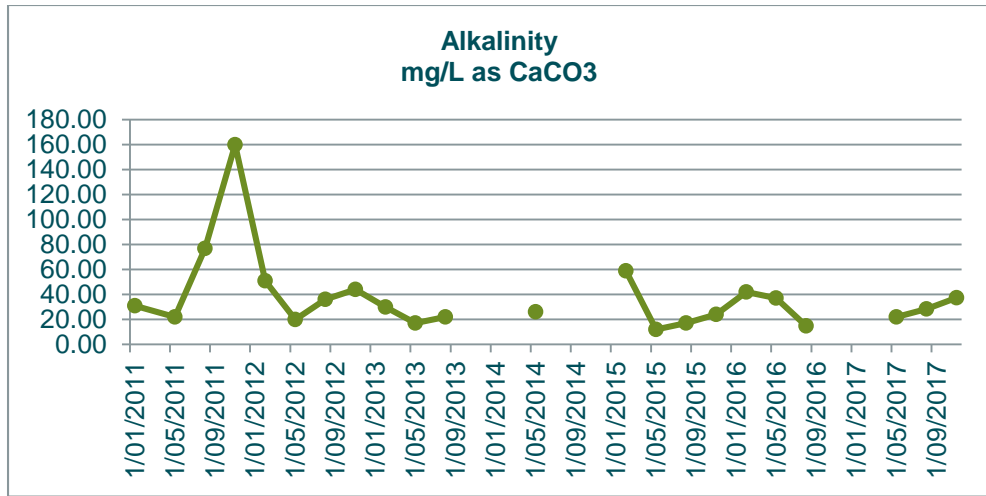
SW1	Alkalinity mg/L as CaCO3	Ammonia mg/L	Arsenic (Total) mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	Orthophosphate mg/L	pH pH units	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Solids Suspended mg/L	Sulphate mg/L	TKN mg/L	TOC mg/L	Zinc (Total) mg/L	
31/01/2011	31.00	0.05	0.09	21.00	0.00	3.40	44.00	0.01	120.00	0.01	1.00	0.01	1.60	3.30	0.01	0.05	0.05	0.05	0.82	0.05	6.40	0.07	5.00	-13.00	13.00	1237.00	1.70	0.82	5.30	0.01	
10/05/2011	22.00	0.05	0.01	3.60	0.00	4.50	25.00	0.01	150.00	0.01	5.60	0.01	1.90	4.01	0.01	0.05	0.05	0.05	0.94	0.05	6.40	0.10	5.00	196.00	16.00	89.00	2.50	0.94	2.70	0.01	
9/08/2011	77.00	0.05	0.10	18.00	0.00	13.00	44.00	0.02	265.00	0.07	3.60	0.01	4.00	74.00	0.02	0.05	0.05	0.05	9.98	0.05	6.70	0.58	5.00	218.00	24.00	2970.00	4.80	9.98	5.10	0.12	
8/11/2011	160.00	0.07	0.30	108.00	0.00	19.00	35.00	0.01	309.00	0.18	0.10	0.03	5.30	67.00	0.04	0.06	0.02	0.06	11.00	0.02	6.50	0.80	5.00	-56.00	18.00	6820.00	2.60	10.94	3.20	0.34	
6/02/2012	51.00	0.03	0.01	20.00	0.00	7.40	22.00	0.01	193.00	0.01	1.00	0.04	4.80	4.10	0.01	0.02	0.02	0.05	5.12	0.02	6.40	0.17	5.00	53.00	16.00	764.00	1.80	5.12	6.10	0.08	
8/05/2012	20.00	0.02	0.01	1.00	0.00	3.50	22.00	0.01	108.00	0.14	4.80	0.01	2.00	0.01	0.01	0.02	0.02	0.02	0.49	0.02	6.30	0.07	5.00	226.00	15.00	38.00	1.40	0.47	0.60	0.04	
7/08/2012	36.00	0.03	0.01	6.60	0.00	6.60	30.00	0.01	188.00	0.01	1.20	0.01	2.60	1.55	0.01	0.03	0.02	0.03	0.36	0.02	6.30	0.02	5.00	-1.00	13.00	334.00	2.10	0.33	3.70	0.01	
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12/11/2013																															
11/02/2014																															
14/05/2014	26.00	0.04	0.01	5.10	0.00	9.70	58.00	0.01	326.00	0.01	1.00	0.01	4.30	0.41	0.01	0.04	0.02	0.04	0.72	0.03	5.80	0.10	5.00	-2.00	40.00	28.00	28.00	0.68	7.70	0.02	
12/08/2014																															
10/11/2014																															
10/02/2015	59.00	0.04	0.01	6.60	0.00	11.00	24.00	0.01	230.00	0.01	0.10	0.01	4.40	1.71	0.01	0.03	0.02	0.05	1.33	0.02	6.60	0.06	5.00	-63.00	14.00	12.00	2.70	1.28	22.00	0.05	
12/05/2015	12.00	0.02	0.00	3.60	0.00	3.10	20.00	0.00	103.00	0.00	3.90	0.00	1.40	0.15	0.00	0.02	0.02	0.02	0.23	0.02	5.60	0.04	5.00	105.00	14.00	13.00	2.60	0.23	3.00	0.03	
12/08/2015	17.00	0.02	0.01	2.70	0.00	3.90	24.00	0.00	125.00	0.00	3.40	0.00	1.80	0.60	0.00	0.02	0.02	0.02	1.35	0.02	6.60	0.34	5.00	97.00	16.00	165.00	2.80	1.35	4.20	0.01	
11/11/2015	24.00	0.02	0.00	1.50	0.00	7.20	20.00	0.00	146.00	0.00	2.10	0.00	2.30	0.64	0.00	0.02	0.02	0.02	1.49	0.02	6.30	0.23	5.00	48.00	14.00	50.00	6.90	1.47	7.30	0.01	
9/02/2016	42.00	0.02	0.02	13.50	0.00	10.26	28.00	0.00	196.00	0.01	0.60	0.00	3.25	1.16	0.00	0.02	0.03	0.02	4.07	0.02	6.50	0.72	5.00	8.00	17.01	402.00	2.96	4.07	8.73	0.02	
10/05/2016	37.00	0.02	0.01	6.30	0.00	8.27	30.00	0.00	203.00	0.00	1.60	0.00	3.11	0.77	0.00	0.02	0.02	0.02	0.68	0.02	6.20	0.14	5.00	88.00	19.15	40.00	2.62	0.68	6.00	0.01	
10/08/2016	14.90	0.02		6.60		3.80	23.00		120.60		3.70		1.60			0.02	0.02	0.02	2.89	0.02	5.80	0.55	5.00	174.00	16.89	178.00	3.44	2.89	4.27		
8/11/2016																															
7/02/2017																															
9/05/2017	22.10	0.02	0.00	1.00	0.00	8.20	20.00	0.00	139.00	0.00	2.40	0.00	2.39	0.19	0.00	0.02	0.02	0.02	0.36	0.02	5.90	0.04	5.00	256.30	12.76	8.50	11.45	0.36	5.16	0.01	
9/08/2017	28.28	0.02		3.00		5.49	50.00		158.50		0.90		2.46			0.02	0.02	0.02	4.64	0.02	6.00	0.91	5.00	135.30	17.26	119.00	1.55	4.64	5.16		
8/11/2017	37.27	0.02		2.40		12.34	27.50		198.80		1.20		3.14			0.02	0.02	0.02	0.40	0.02	5.60	0.05	5.00	114.90	16.83	9.70	12.31	0.40	5.62		
2017 Min	22.10	0.02	0.00	1.00	0.00	5.49	20.00	0.00	139.00	0.00	0.90	0.00	2.39	0.19	0.00	0.02	0.02	0.02	0.36	0.02	5.60	0.04	5.00	114.90	12.76	8.50	1.55	0.36	5.16	0.01	
2017 Max	37.27	0.02	0.00	3.00	0.00	12.34	50.00	0.00	198.80	0.00	2.40	0.00	3.14	0.19	0.00	0.02	0.02	0.02	4.64	0.02	6.00	0.91	5.00	256.30	17.26	119.00	12.31	4.64	5.62	0.01	
2017 Mean	29.22	0.02	0.00	2.13	0.00	8.68	32.50	0.00	165.43	0.00	1.50	0.00	2.66	0.19	0.00	0.02	0.02	0.02	1.80	0.02	5.83	0.33	5.00	168.83	15.62	45.73	8.44	1.80	5.31	0.01	

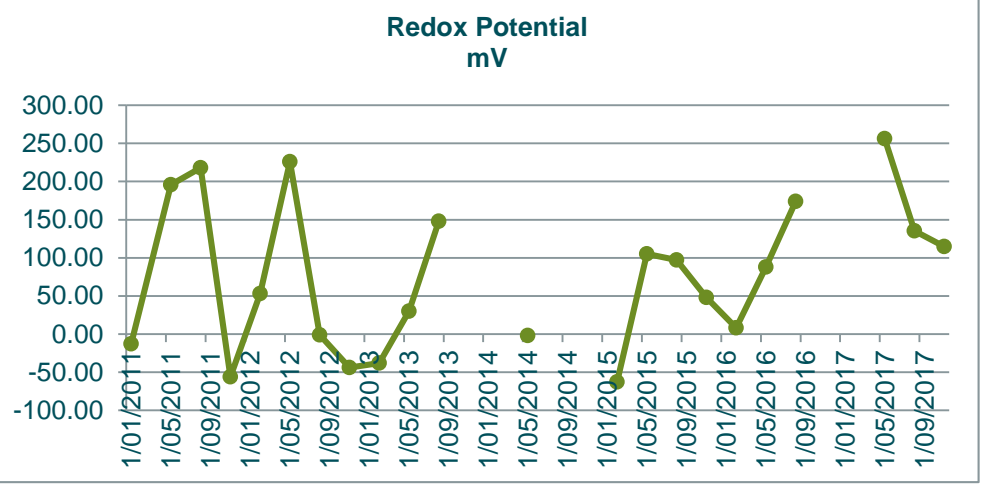
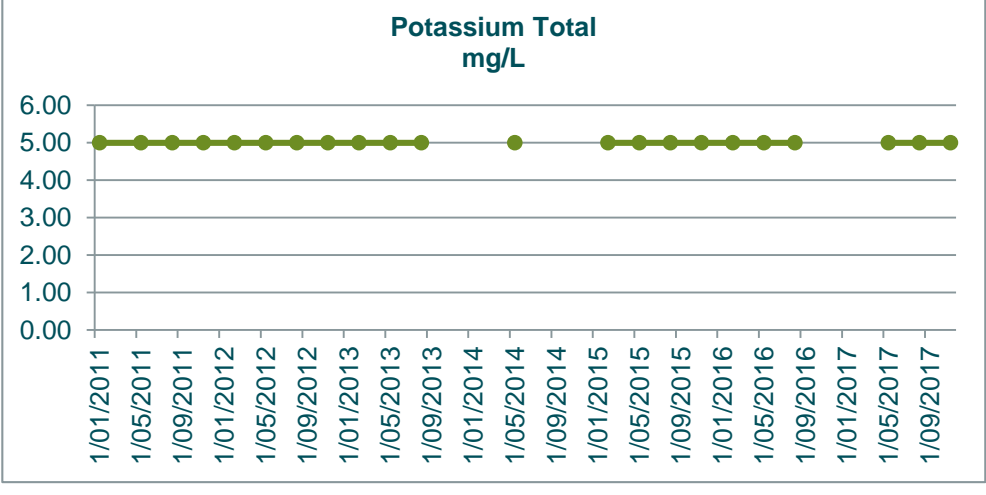
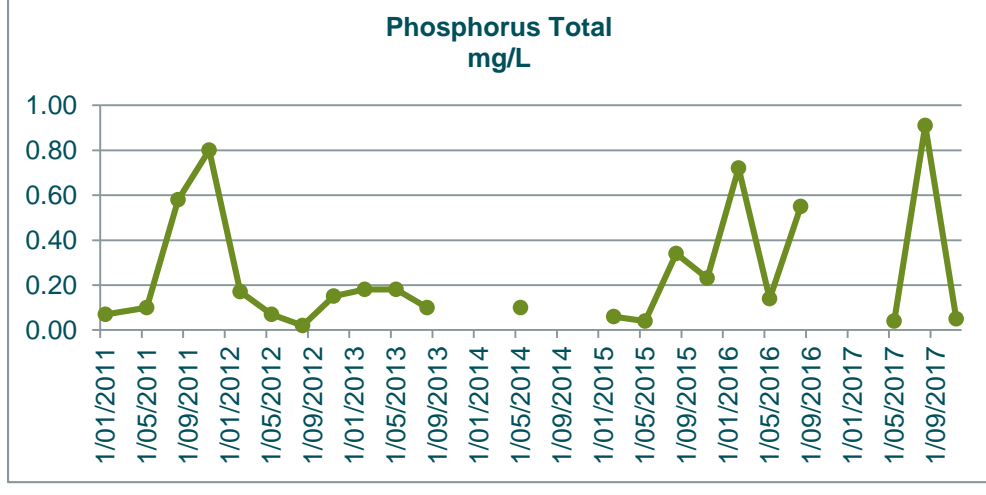
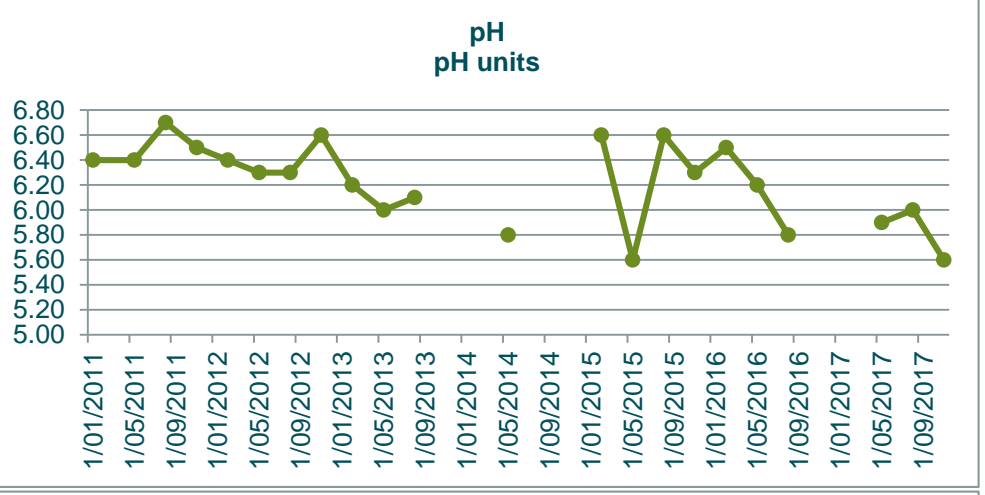
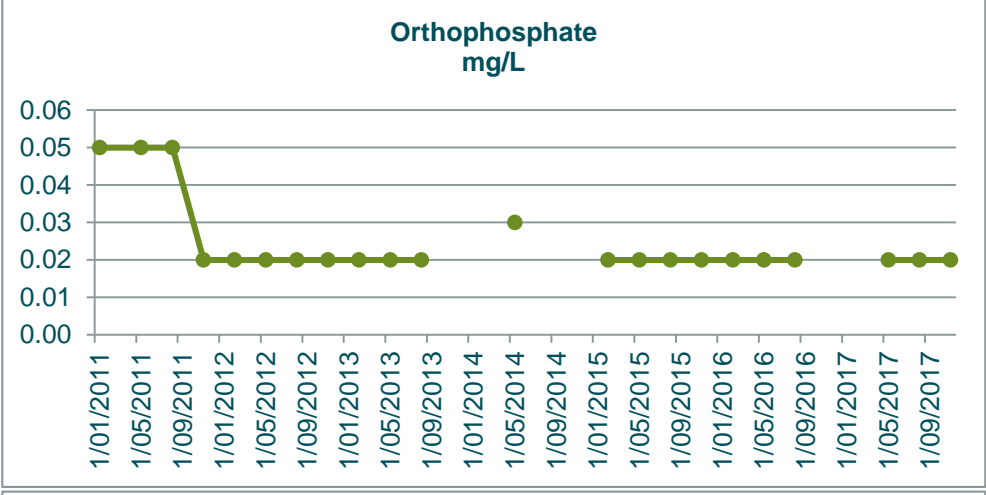
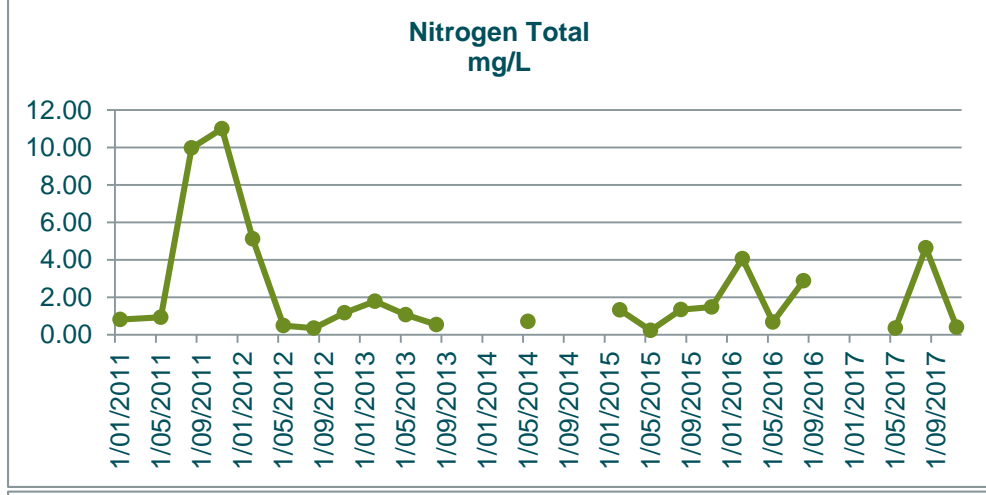
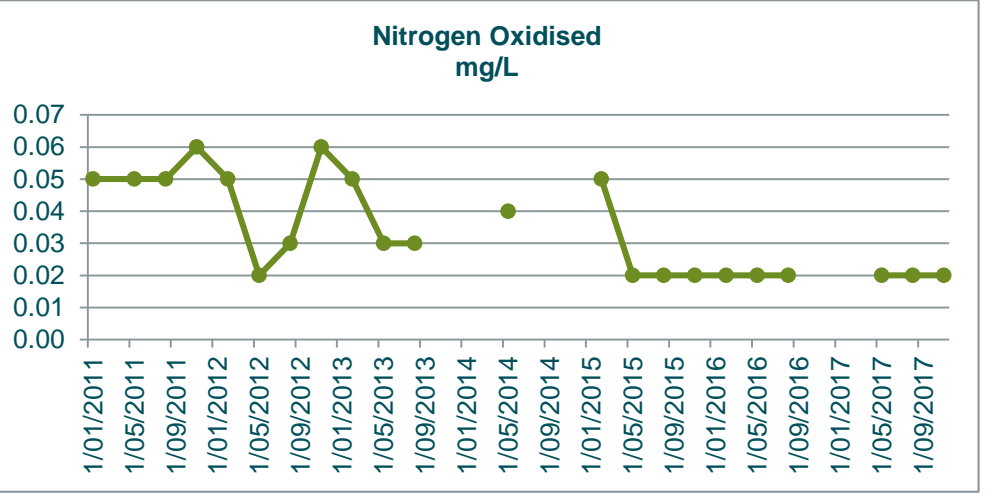
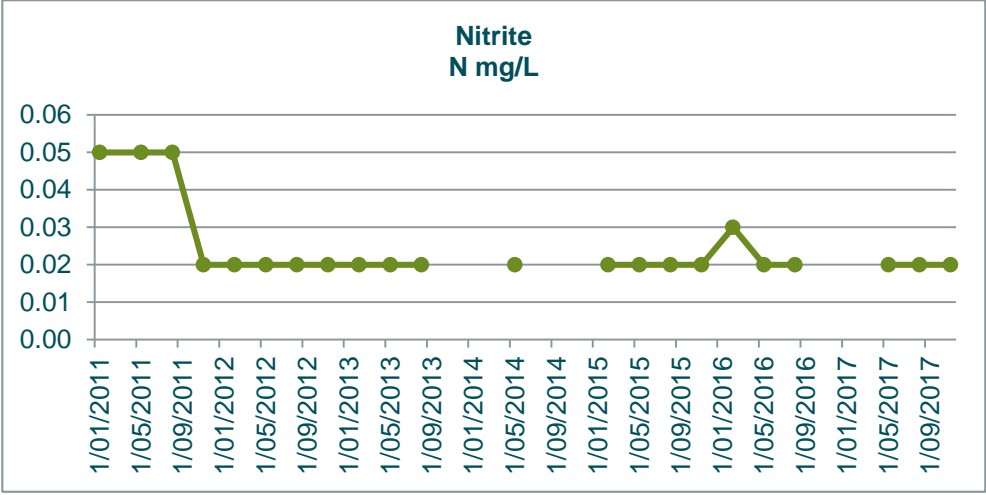
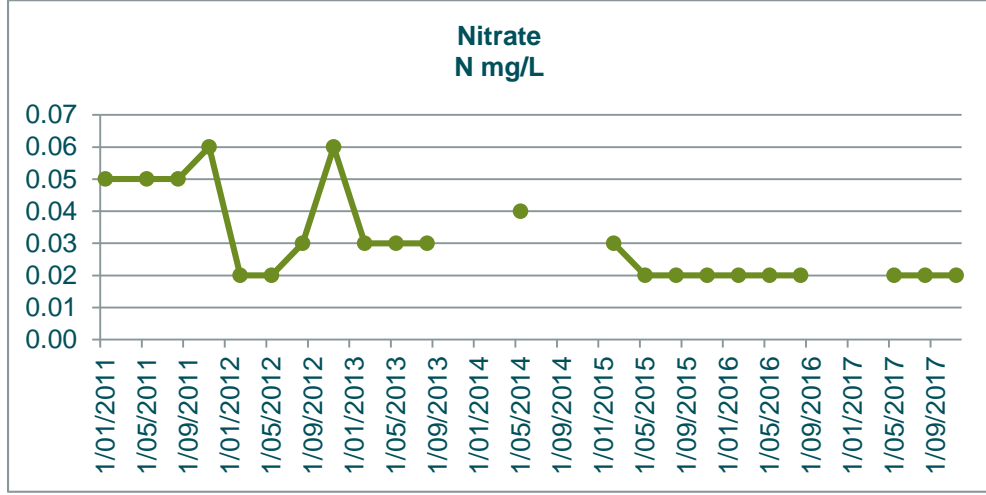
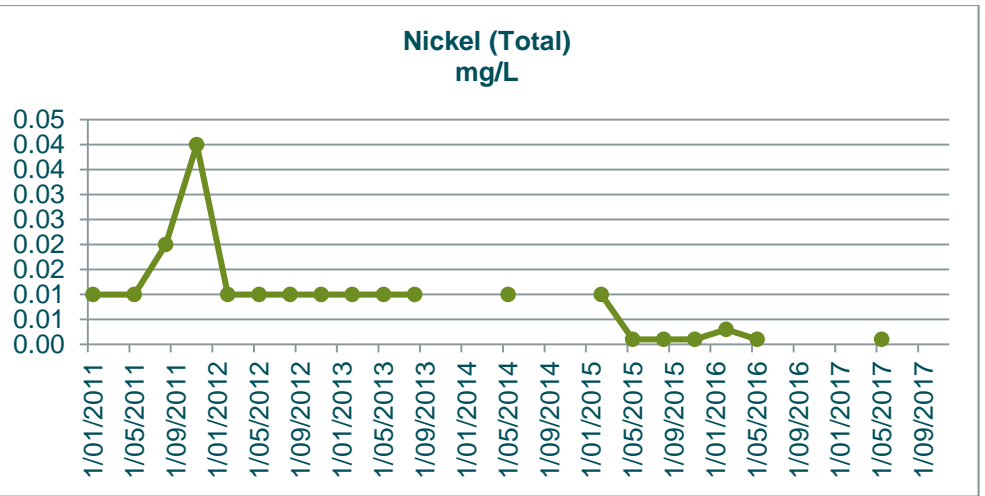
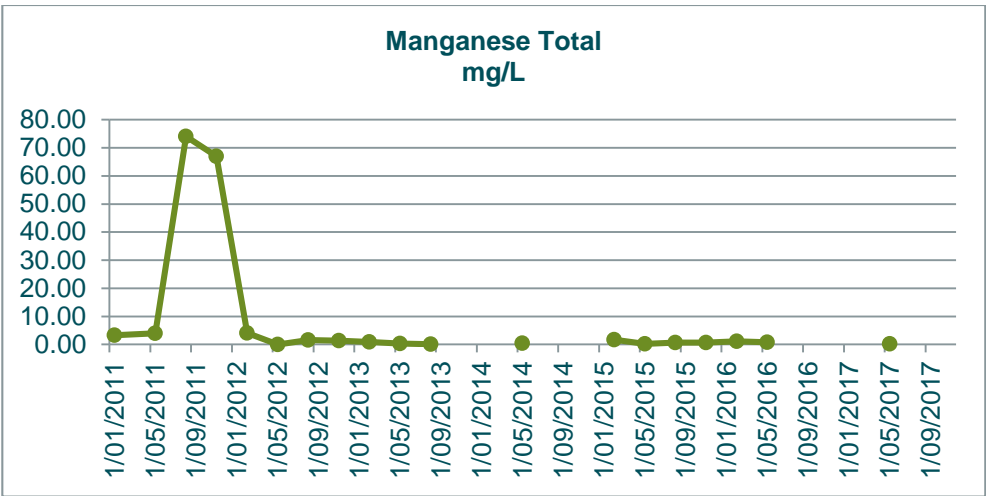
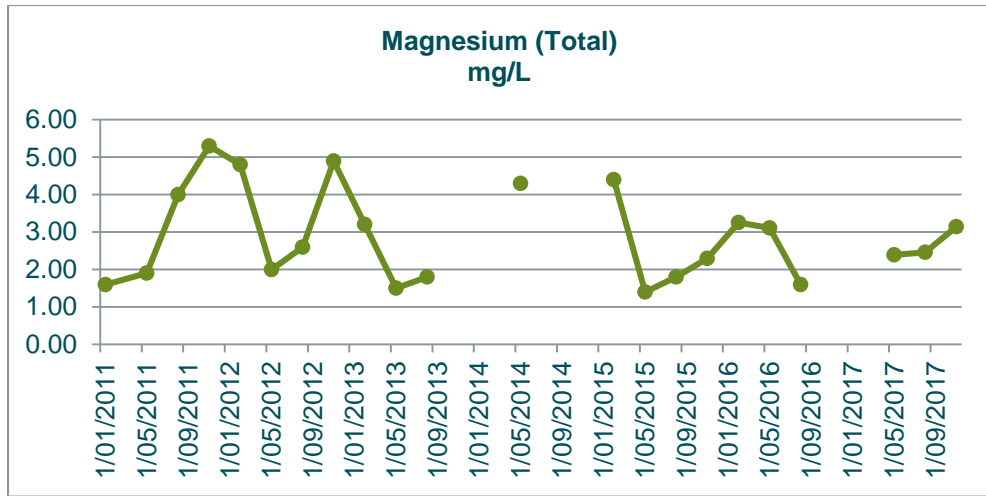


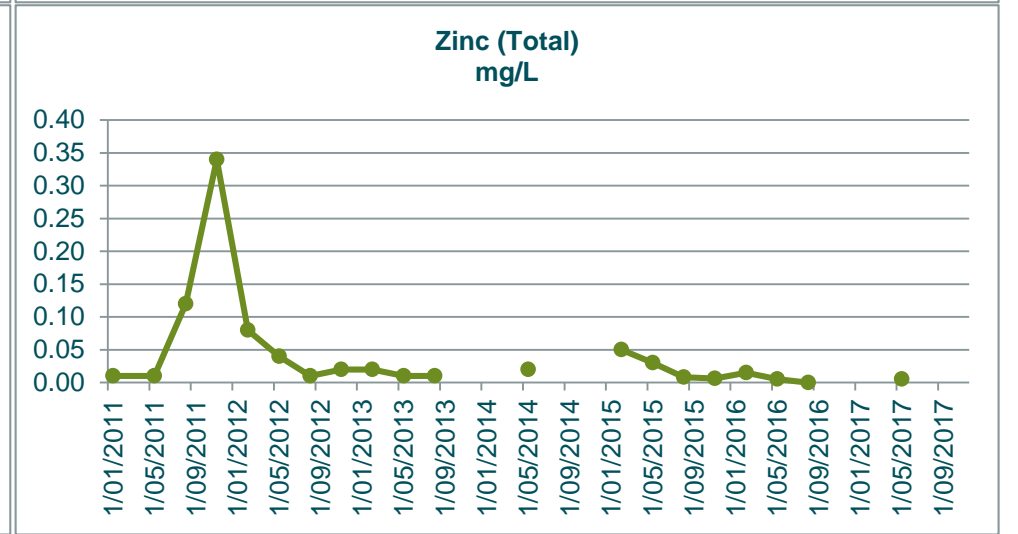
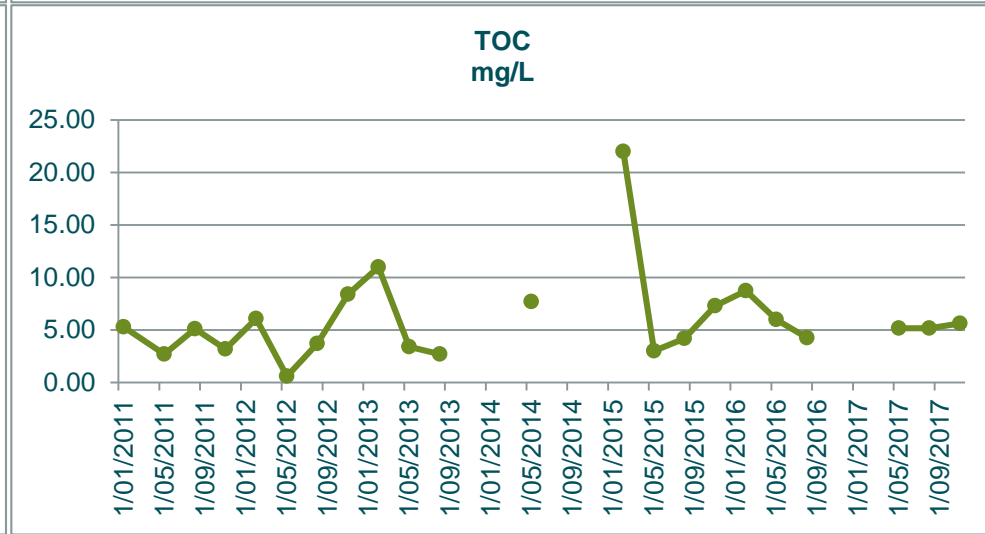
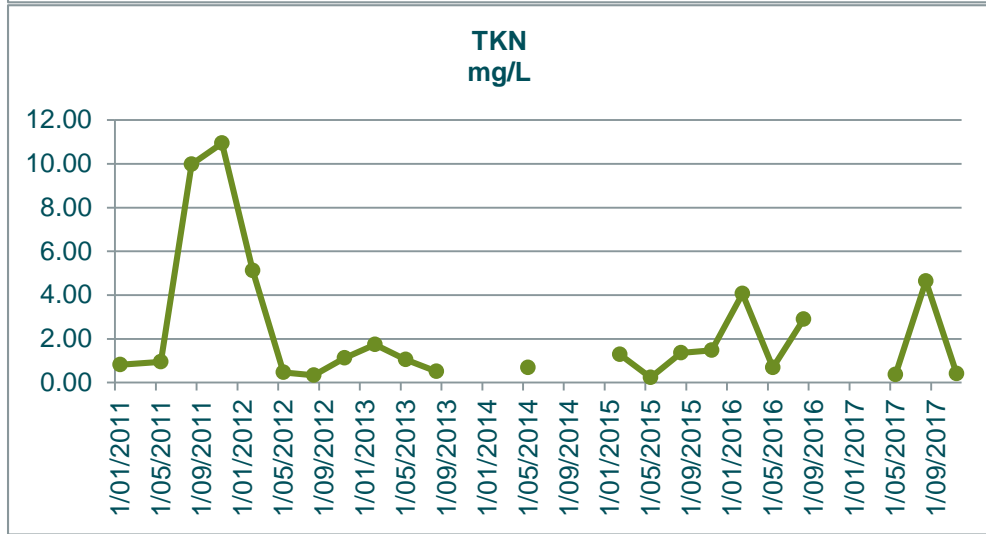
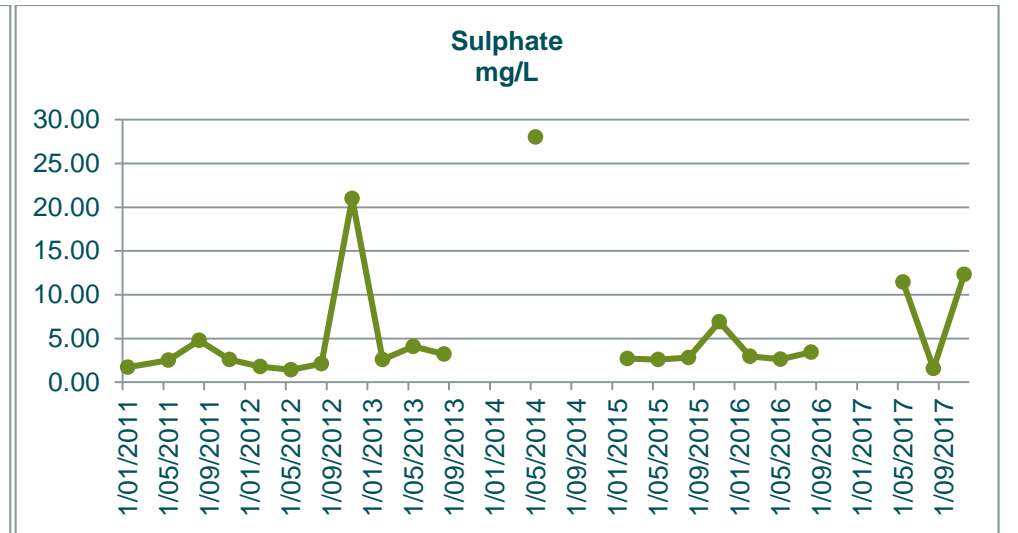
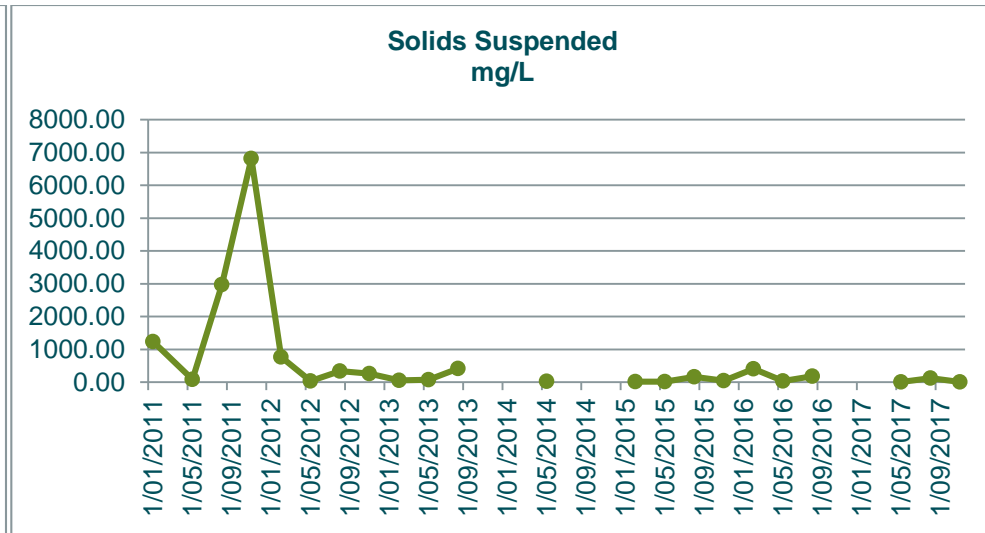
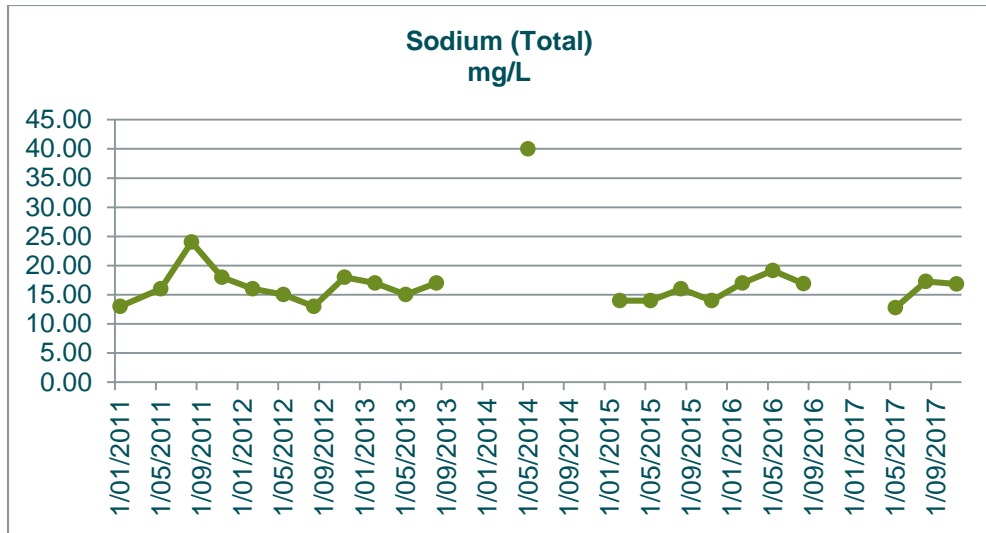




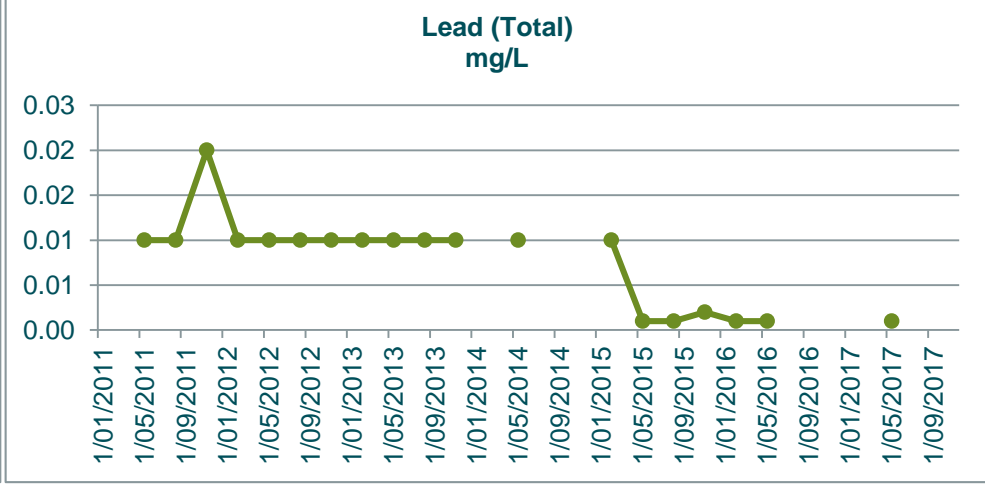
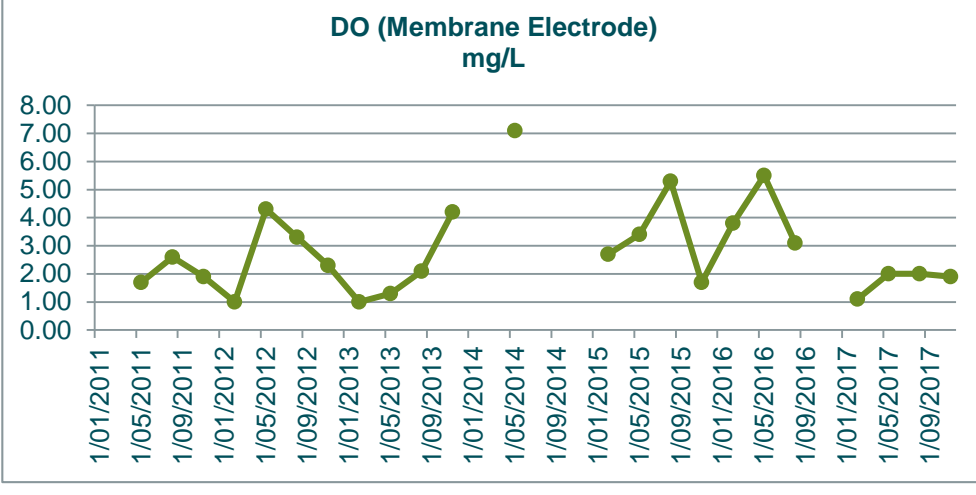
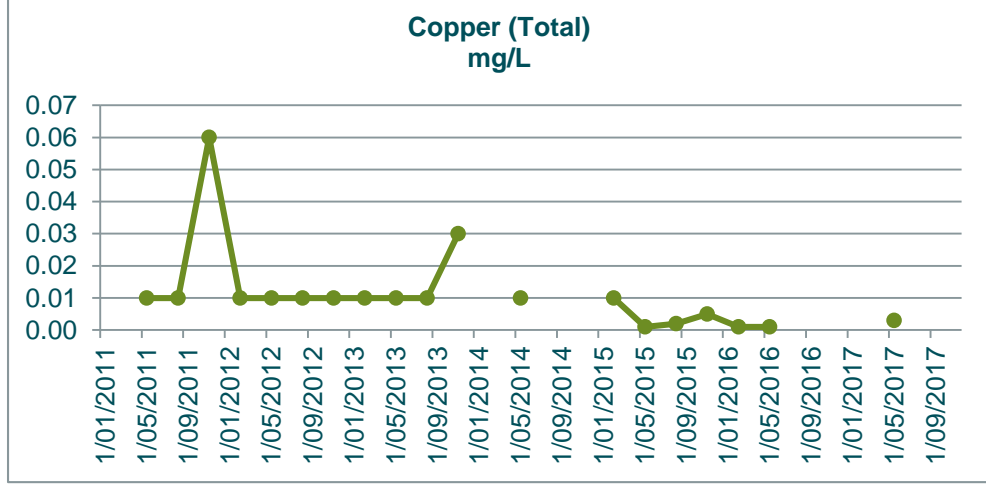
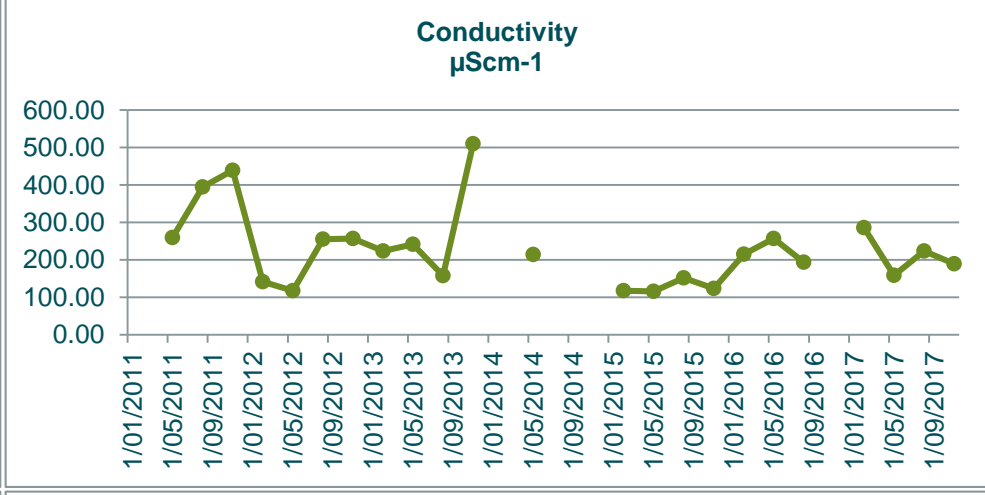
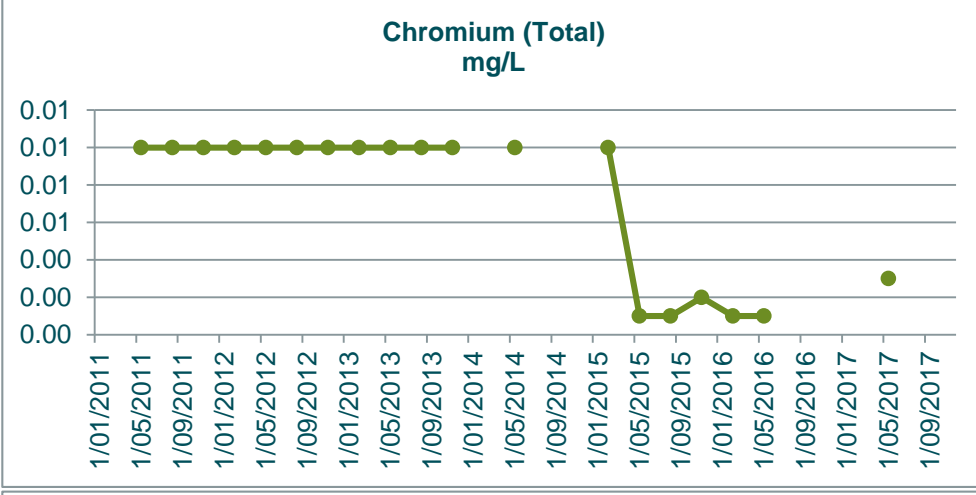
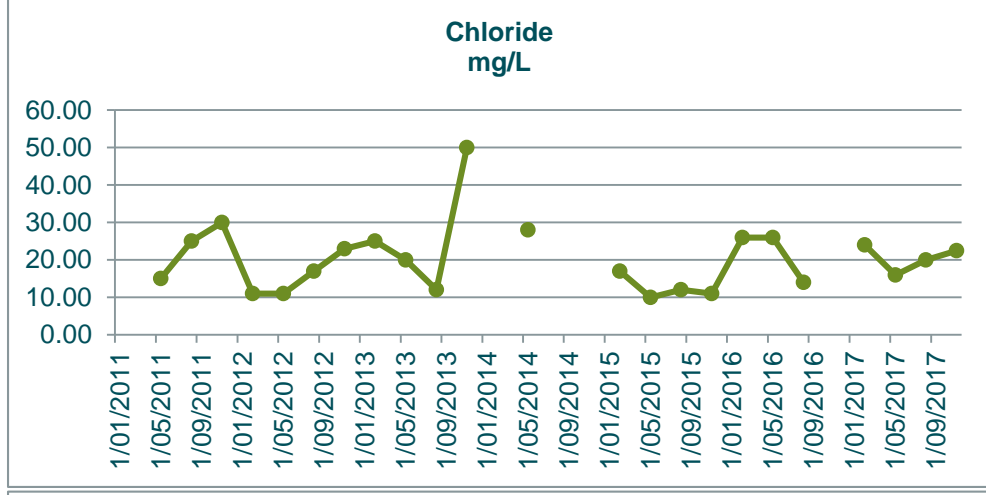
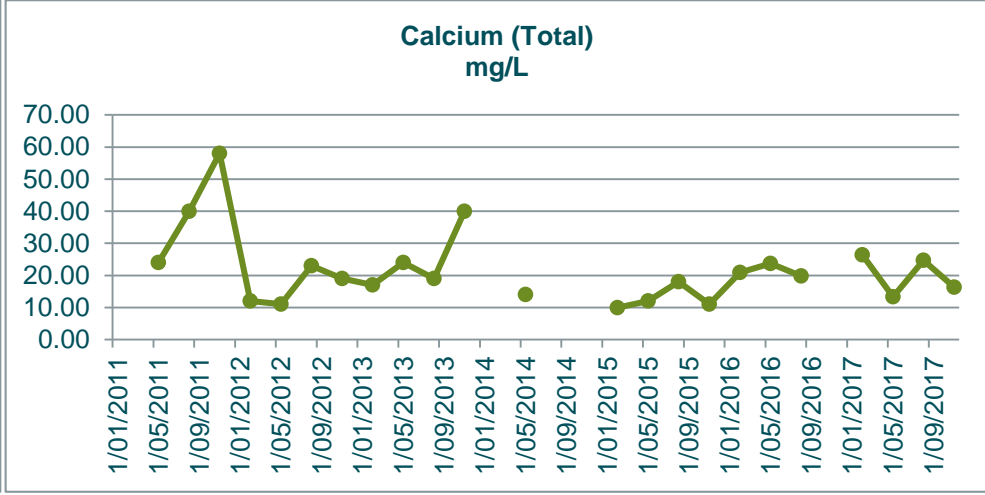
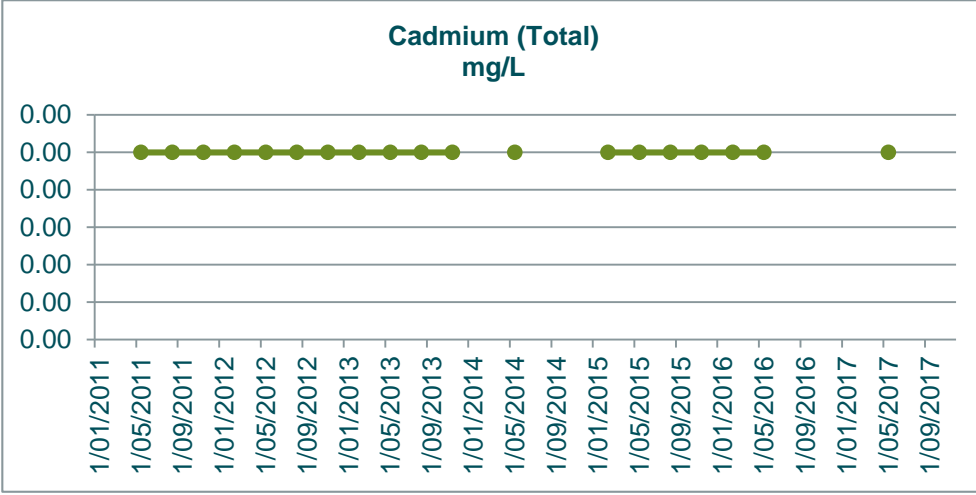
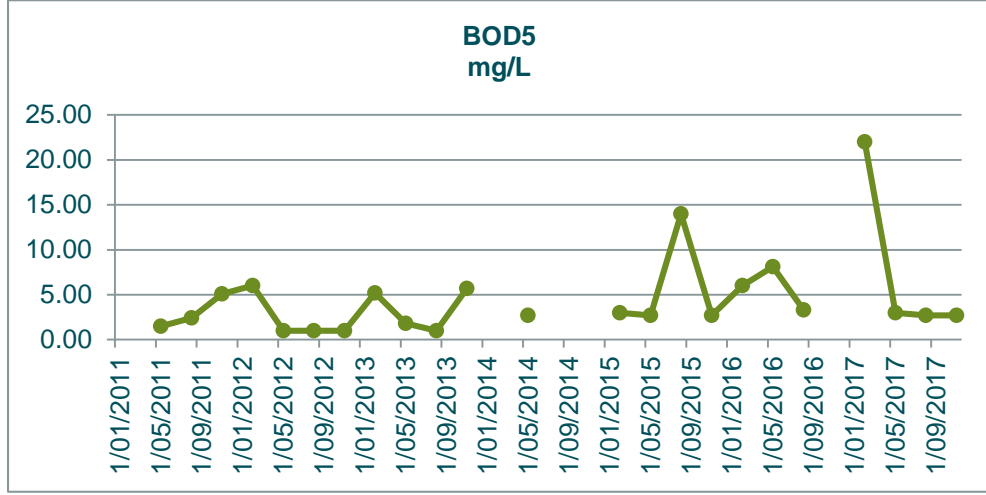
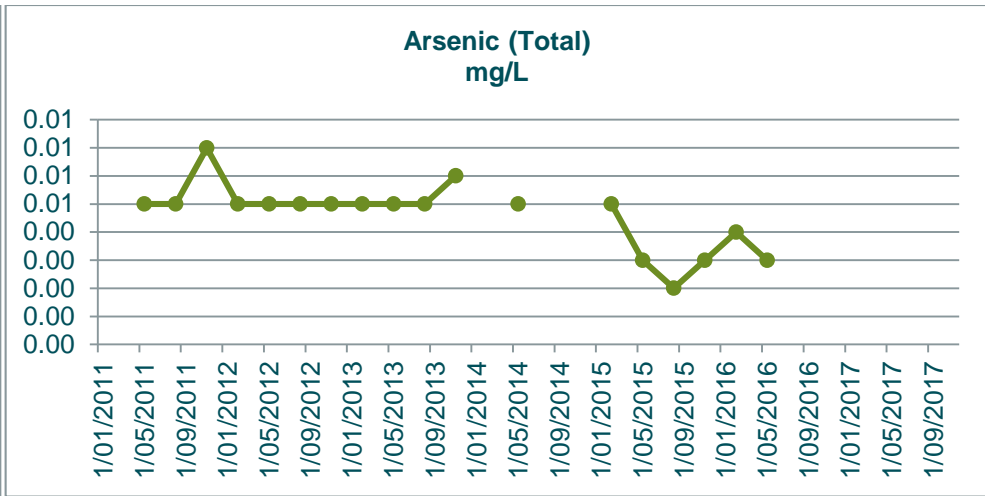
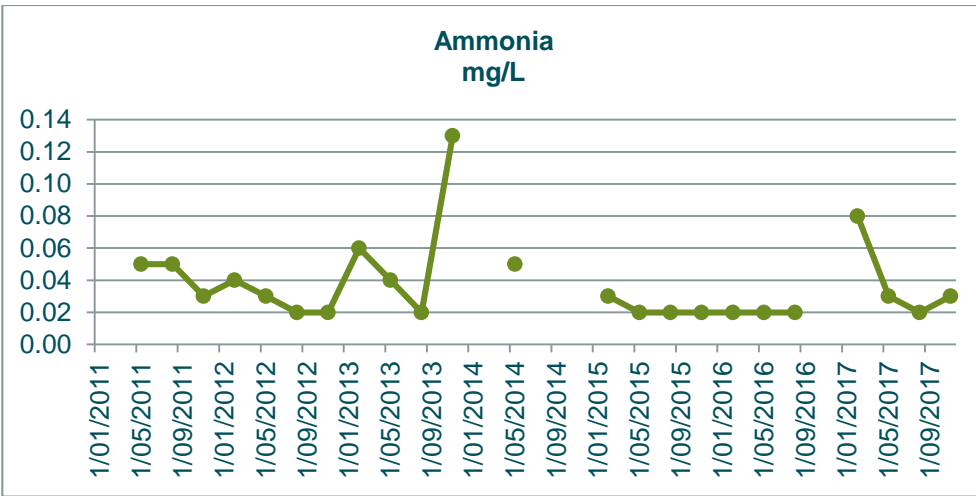
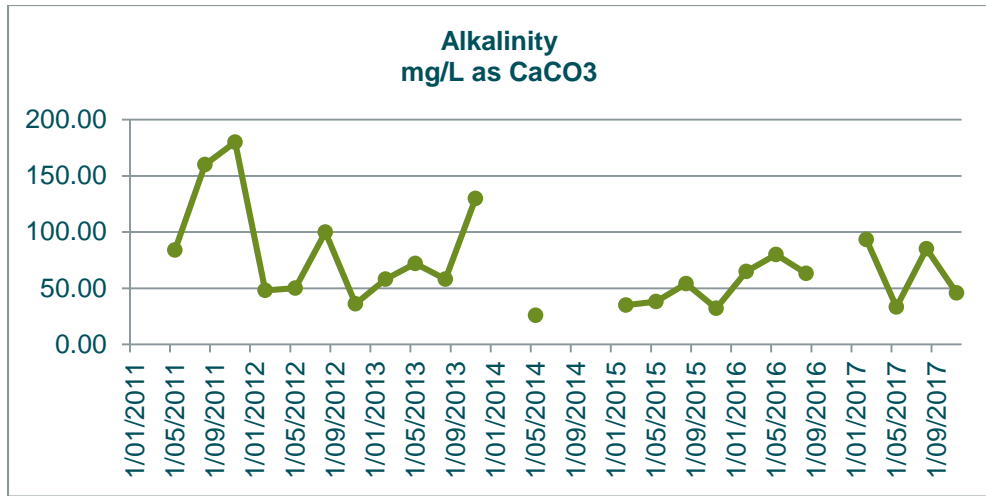
SW2	Alkalinity mg/L as CaCO3	Ammonia mg/L	Arsenic (Total) mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	Orthophosphate mg/L	pH pH units	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Solids Suspended mg/L	Sulphate mg/L	TKN mg/L	TOC mg/L	Zinc (Total) mg/L
31/01/2011	25.00	0.05	0.01	7.80	0.00	3.90	20.00	0.01	142.00	0.01	1.10	0.01	2.10	1.42	0.01	0.05	0.05	0.05	0.95	0.05	6.20	0.08	5.00	-18.00	13.00	82.00	1.00	0.95	5.60	0.01
10/05/2011	17.00	0.05	0.01	2.40	0.00	3.60	28.00	0.01	163.00	0.01	3.10	0.01	2.20	0.01	0.01	0.05	0.05	0.05	0.38	0.05	5.50	0.05	5.00	186.00	19.00	6.00	3.20	0.38	2.90	0.01
9/08/2011	22.00	0.05	0.01	18.00	0.00	5.90	44.00	0.01	224.00	0.01	6.90	0.01	3.10	0.73	0.01	0.05	0.05	0.05	0.71	0.05	6.00	0.07	5.00	244.00	23.00	167.00	4.70	0.71	7.60	0.01
8/11/2011	38.00	0.03	0.01	6.00	0.00	9.90	40.00	0.01	229.00	0.02	2.40	0.01	4.30	1.53	0.01	0.02	0.02	0.02	0.77	0.02	6.30	0.07	5.00	107.30	13.00	52.00	1.80	0.75	5.40	0.03
6/02/2012	45.00	0.04	0.01	6.00	0.00	9.00	24.00	0.01	205.00	0.01	1.00	0.01	5.40	2.93	0.01	0.05	0.02	0.05	1.19	0.02	6.40	0.46	5.00	34.00	17.00	44.00	2.30	1.14	4.80	0.02
8/05/2012	18.00	0.03	0.01	7.80	0.00	3.30	26.00	0.01	123.00	0.01	5.10	0.01	2.20	0.27	0.01	0.03	0.02	0.03	0.75	0.02	5.90	0.07	5.00	228.00	17.00	68.00	1.90	0.72	0.70	0.01
7/08/2012	32.00	0.02	0.01	1.00	0.00	5.30	32.00	0.01	192.00	0.01	3.10	0.01	4.20	0.05	0.01	0.02	0.02	0.02	0.31	0.02	6.10	0.02	5.00	114.00	15.00	3.70	1.80	0.29	4.40	0.01
14/11/2012	19.00	0.04	0.01	2.70	0.00	7.50	56.00	0.01	325.00	0.01	1.50	0.01	5.20	1.64	0.01	0.04	0.02	0.04	0.80	0.02	6.20	0.05	5.00	41.00	27.00	52.00	20.00	0.76	7.00	0.03
14/02/2013	37.00	0.07	0.01	14.00	0.00	8.30	38.00	0.01	272.00	0.01	1.00	0.01	4.40	1.59	0.01	0.02	0.03	0.04	1.02	0.02	6.20	0.06	5.00	-47.00	22.00	39.00	2.60	0.98	15.00	0.02
15/05/2013	7.00	0.05	0.01	3.90	0.00	3.30	35.00	0.01	149.00	0.01	2.10	0.01	1.70	0.41	0.01	0.04	0.02	0.04	0.22	0.02	5.70	0.03	5.00	78.00	18.00	20.00	4.00	0.18	2.70	0.01
7/08/2013	19.00	0.04	0.01	4.50	0.00	4.00	31.00	0.01	144.00	0.01	3.60	0.01	2.60	0.27	0.01	0.04	0.02	0.04	0.78	0.02	6.00	0.07	5.00	146.00	20.00	90.00	1.50	0.74	4.30	0.02
13/11/2013	36.00	0.04	0.01	7.20	0.00	8.40	51.00	0.01	257.00	0.01	4.50	0.01	4.90	1.00	0.01	0.03	0.02	0.03	1.23	0.02	6.50	0.14	5.00	90.00	29.00	35.00	2.20	1.20	6.80	0.05
12/02/2014	36.00	0.08	0.01	22.00	0.00	9.00	56.00	0.01	260.00	0.01	3.60	0.01	5.20	0.74	0.01	0.09	0.02	0.09	2.67	0.02	6.40	0.16	5.00	145.00	34.00	64.00	2.40	2.58	9.30	0.05
14/05/2014	37.00	0.02	0.01	5.70	0.00	7.10	67.00	0.01	321.00	0.01	4.20	0.01	4.90	0.43	0.01	0.02	0.03	0.02	1.64	0.02	6.30	0.17	5.00	34.00	38.00	34.00	4.40	1.62	12.10	0.01
13/08/2014	10.00	0.03	0.01	2.70	0.00	6.20	59.00	0.01	269.00	0.01	3.80	0.01	4.00	0.12	0.01	0.03	0.02	0.03	0.43	0.02	5.80	0.05	5.00	153.00	37.00	10.00	18.00	0.40	5.00	0.03
11/11/2014	31.00	0.05	0.01	5.40	0.00	7.50	60.00	0.01	248.00	0.01	3.90	0.01	4.60	0.44	0.01	0.04	0.02	0.04	1.23	0.02	7.10	0.15	5.00	79.00	33.00	23.00	3.30	1.19	11.00	0.03
10/02/2015	40.00	0.03	0.01	5.70	0.00	8.30	29.00	0.01	196.00	0.01	0.10	0.01	4.80	2.02	0.01	0.02	0.02	0.04	1.45	0.02	6.50	0.05	5.00	-1.00	16.00	22.00	2.60	1.41	20.00	0.01
12/05/2015	9.00	0.02	0.00	4.80	0.00	2.30	24.00	0.00	111.00	0.00	1.50	0.00	1.50	0.18	0.00	0.02	0.02	0.02	0.44	0.02	5.40	0.06	5.00	124.00	16.00	21.00	2.70	0.44	3.80	0.04
12/08/2015	12.00	0.02	0.00	1.20	0.00	3.10	31.00	0.00	140.00	0.00	4.80	0.00	2.10	0.11	0.00	0.02	0.02	0.02	0.28	0.02	6.30	0.03	5.00	139.00	20.00	3.00	3.10	0.28	4.20	0.01
11/11/2015	12.00	0.02	0.00	1.80	0.00	4.00	29.00	0.00	148.00	0.00	2.50	0.00	2.40	0.36	0.00	0.02	0.02	0.02	0.53	0.02	5.90	0.04	5.00	80.00	18.00	17.00	9.80	0.51	6.50	0.01
9/02/2016	27.00	0.02	0.00	6.30	0.00	6.08	39.00	0.00	182.00	0.00	1.10	0.00	3.01	0.54	0.00	0.02	0.02	0.02	0.66	0.02	6.40	0.07	5.00	84.00	20.62	28.00	3.03	0.66	8.57	0.01
10/05/2016	24.00	0.02	0.00	6.30	0.00	5.81	37.00	0.00	176.00	0.00	2.50	0.00	3.15	0.64	0.00	0.02	0.02	0.02	1.10	0.02	6.20	0.14	5.00	116.00	20.68	34.00	1.89	1.10	6.17	0.01
10/08/2016	11.10	0.02		3.90		4.10	41.00		181.20		2.00		2.71			0.02	0.02	0.02	0.51	0.02	5.60	0.07	5.00	134.00	22.30	15.50	6.42	0.51	4.32	
8/11/2016	31.40	0.02		3.60		7.22	39.50		191.00		2.00		3.75			0.02	0.02	0.02	0.94	0.02	6.30	0.10	5.00	408.40	25.38	16.00	2.48	0.94	7.94	
8/02/2017	38.30	0.16		3.00		6.86	38.00		215.10		1.50		4.15			0.02	0.02	0.02	1.16	0.02	6.40	0.10	5.00	330.70	24.47	16.00	3.70	1.16	12.77	
9/05/2017	6.70	0.02	0.00	1.00	0.00	3.46	32.00	0.00	142.00	0.00	2.00	0.00	2.16	0.15	0.00	0.02	0.02	0.02	0.38	0.02	5.40	0.03	5.00	345.80	17.73	5.70	10.37	0.38	5.32	0.01
9/08/2017	19.94	0.02		3.90		3.62	27.50		139.70		2.30		2.30			0.02	0.02	0.02	0.54	0.02	6.00	0.06	5.00	358.80	18.57	15.50	1.09	0.54	5.35	
8/11/2017	34.32	0.06		4.80		8.29	40.00		216.30		1.20		4.15			0.02	0.02	0.02	0.71	0.02	5.60	0.08	5.00	121.30	23.63	18.00	2.91	0.71	9.32	
2017 Min	6.70	0.02	0.00	1.00	0.00	3.46	27.50	0.00	139.70	0.00	1.20	0.00	2.16	0.15	0.00	0.02	0.02	0.02	0.38	0.02	5.40	0.03	5.00	121.30	17.73	5.70	1.09	0.38	5.32	0.01
2017 Max	38.30	0.16	0.00	4.80	0.00	8.29	40.00	0.00	216.30	0.00	2.30	0.00	4.15	0.15	0.00	0.02	0.02	0.02	1.16	0.02	6.40	0.10	5.00	358.80	24.47	18.00	10.37	1.16	12.77	0.01
2017 Mean	24.82	0.07	0.00	3.18	0.00	5.56	34.38	0.00	178.28	0.00	1.75	0.00	3.19	0.15	0.00	0.02	0.02	0.02	0.70	0.02	5.85	0.07	5.00	289.15	21.10	13.80	4.52	0.70	8.19	0.01

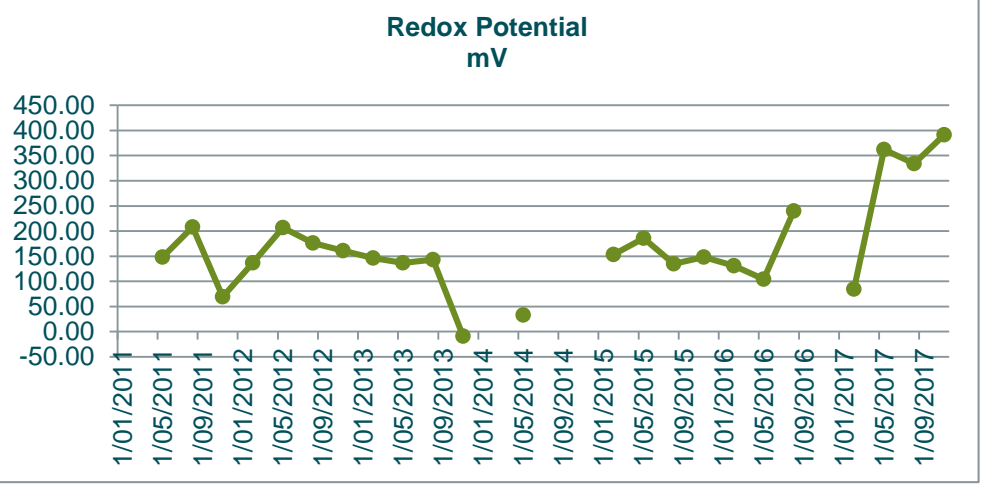
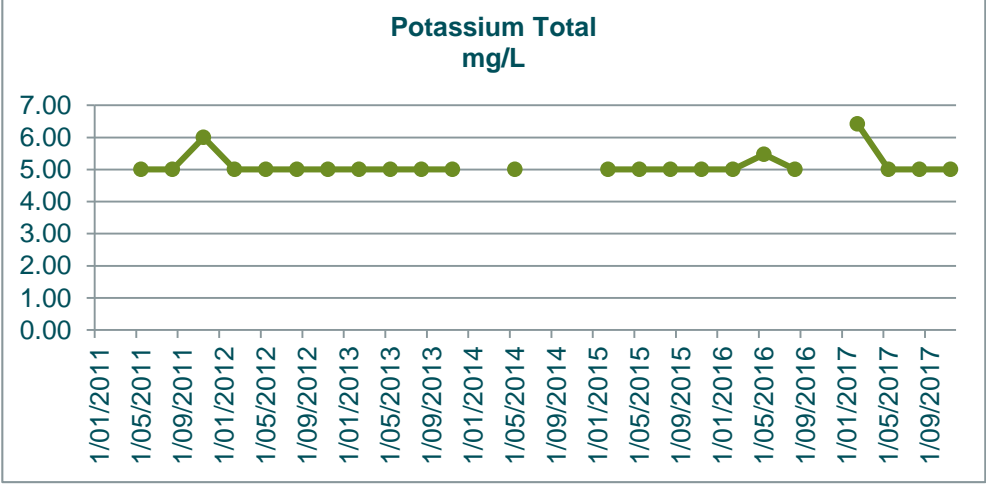
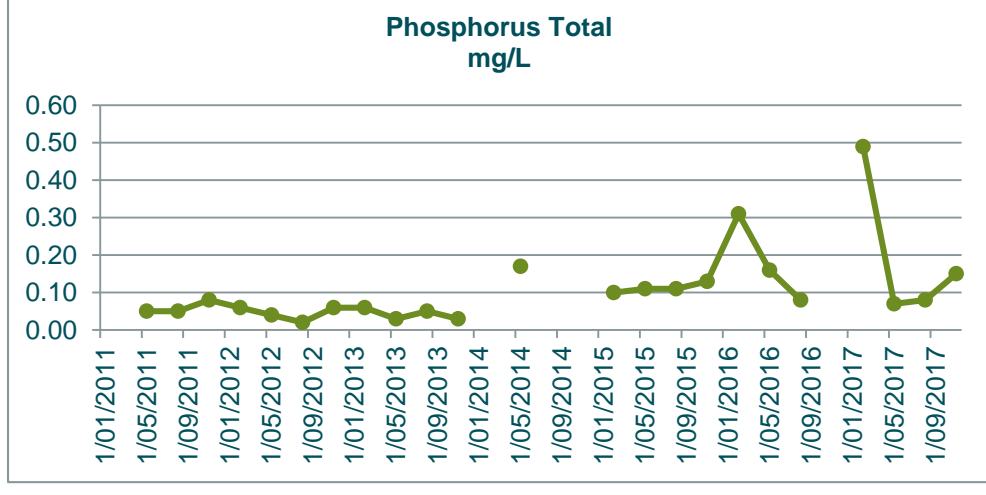
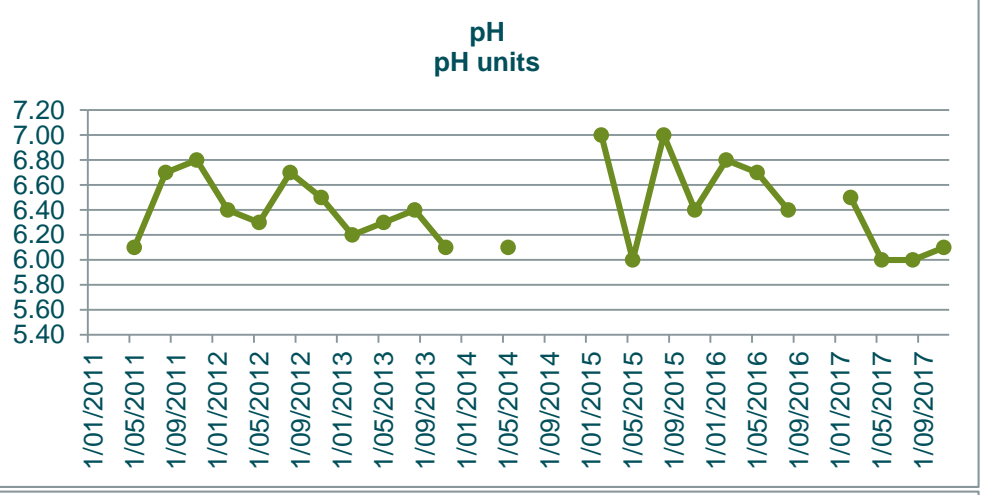
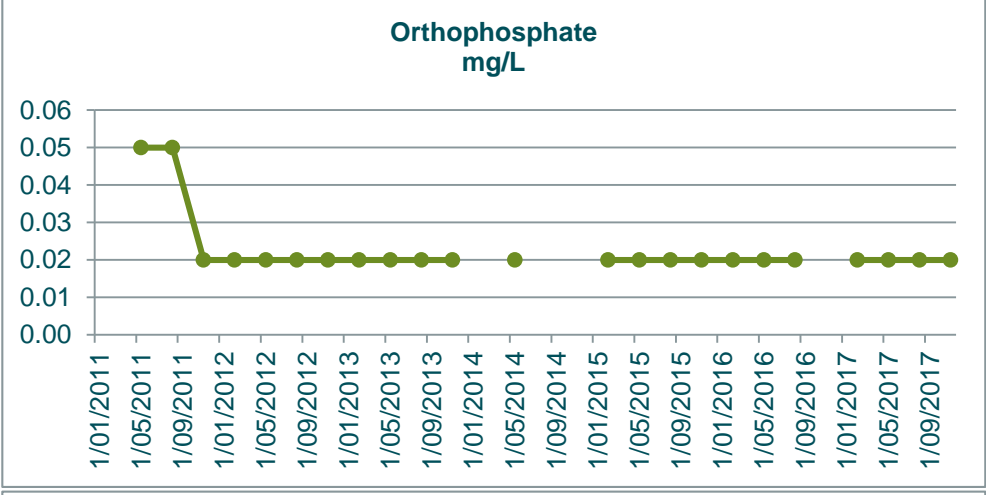
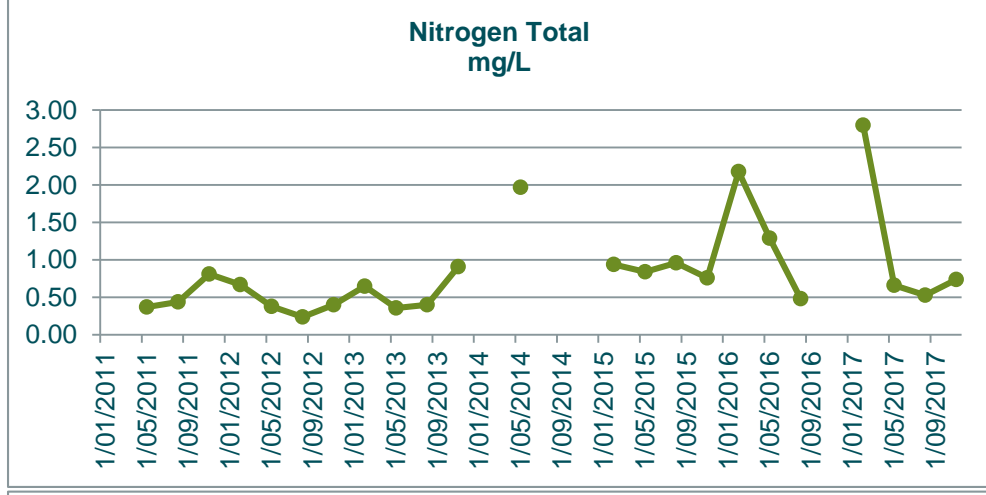
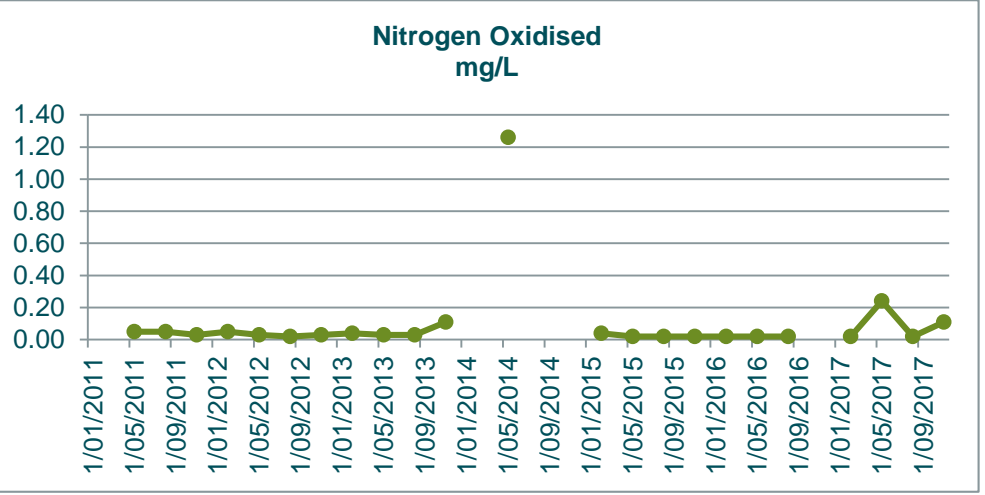
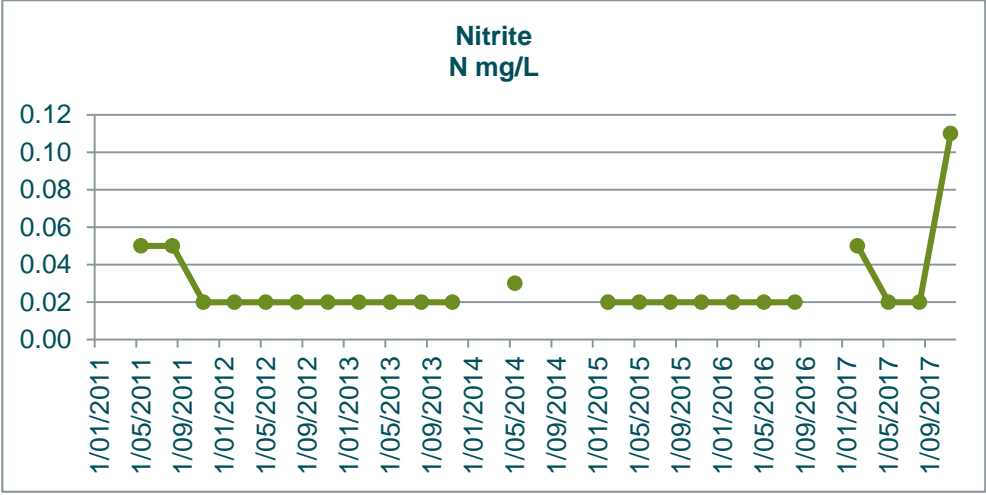
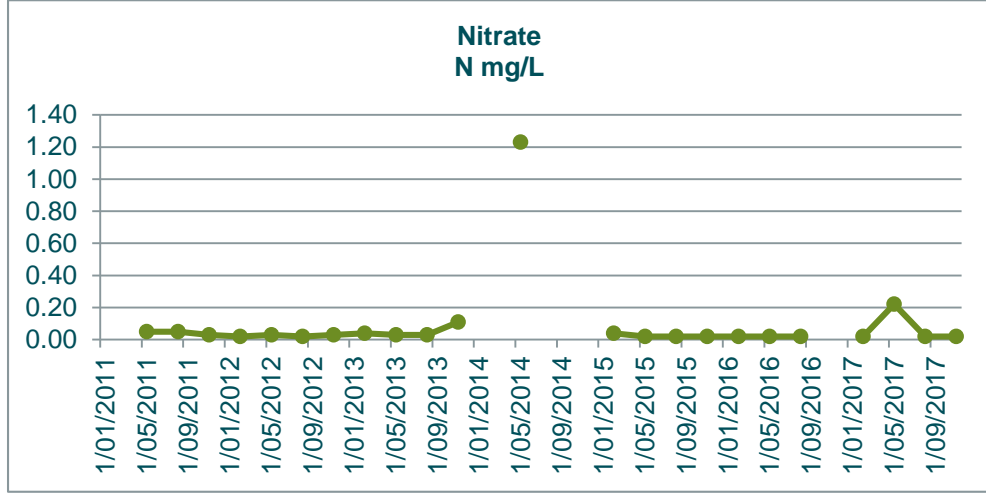
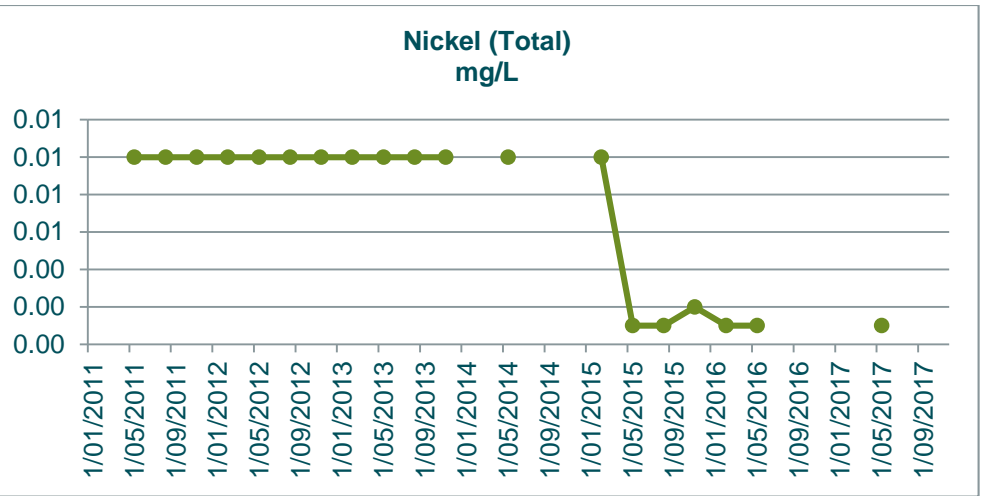
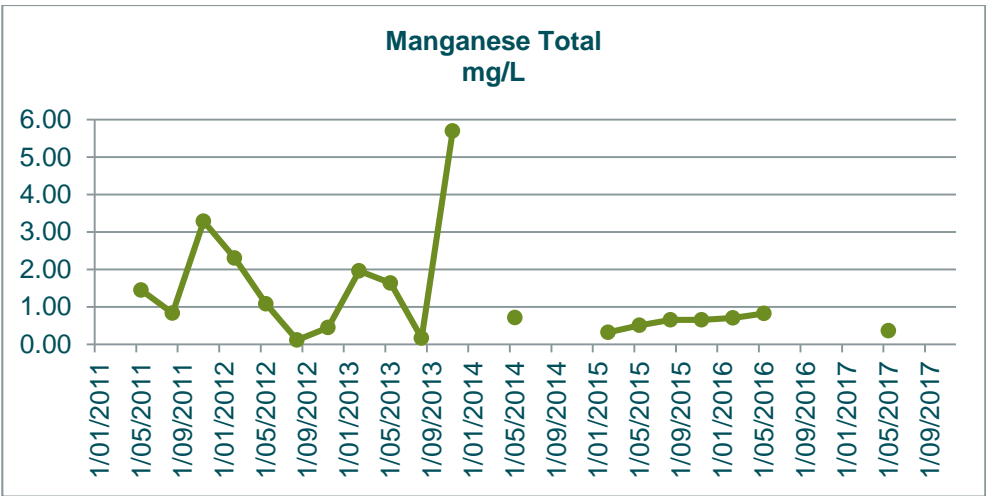
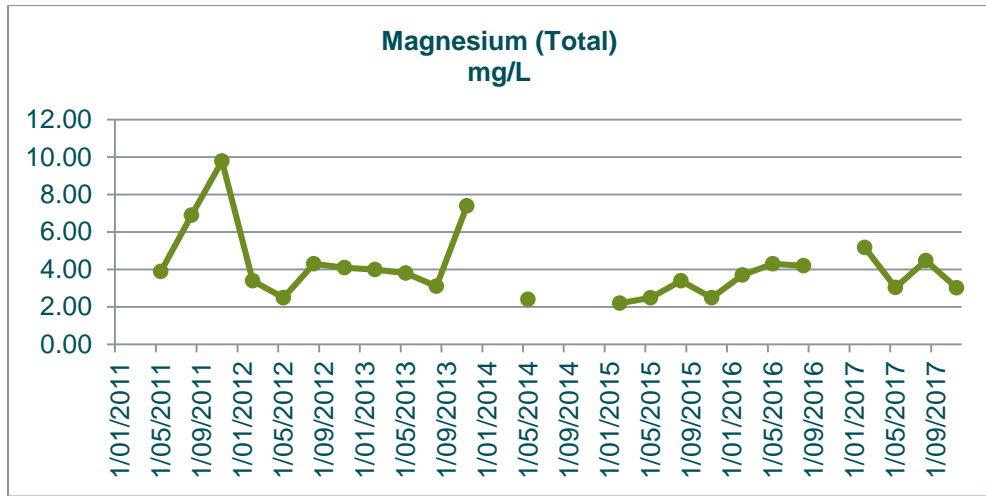


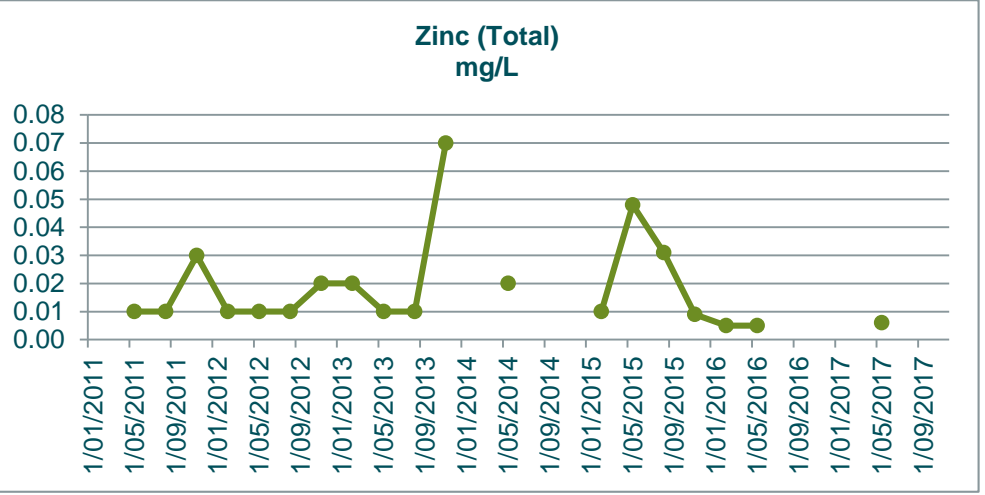
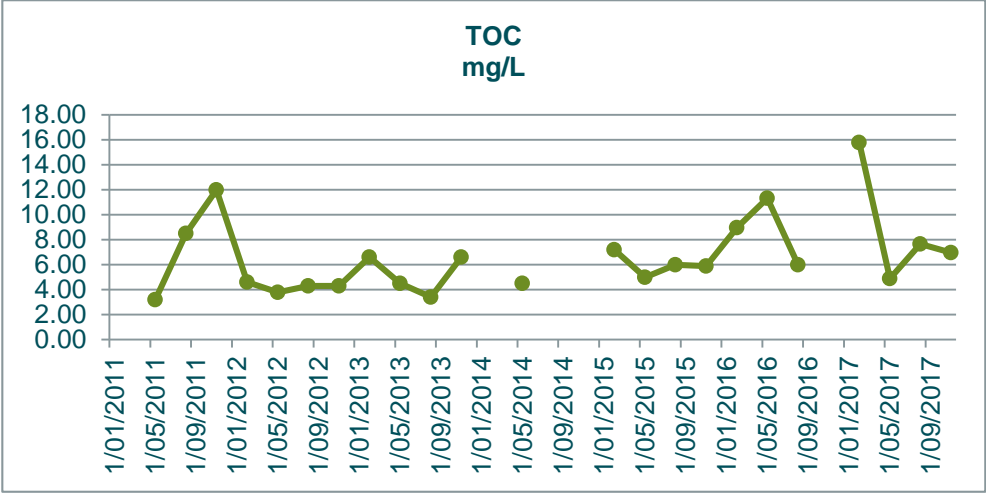
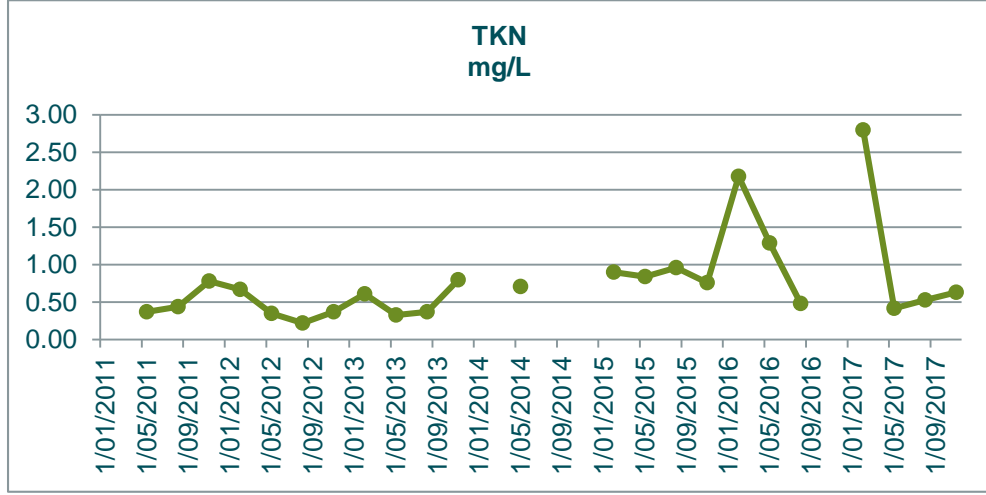
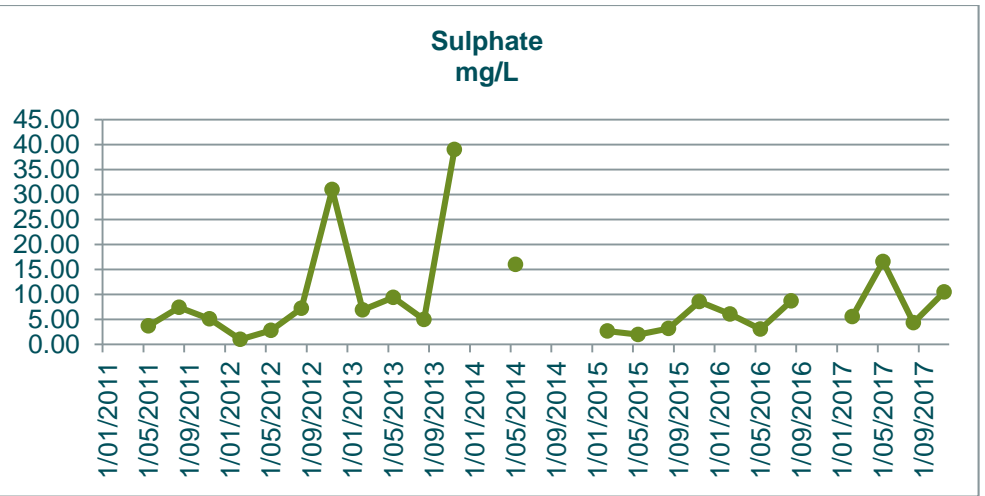
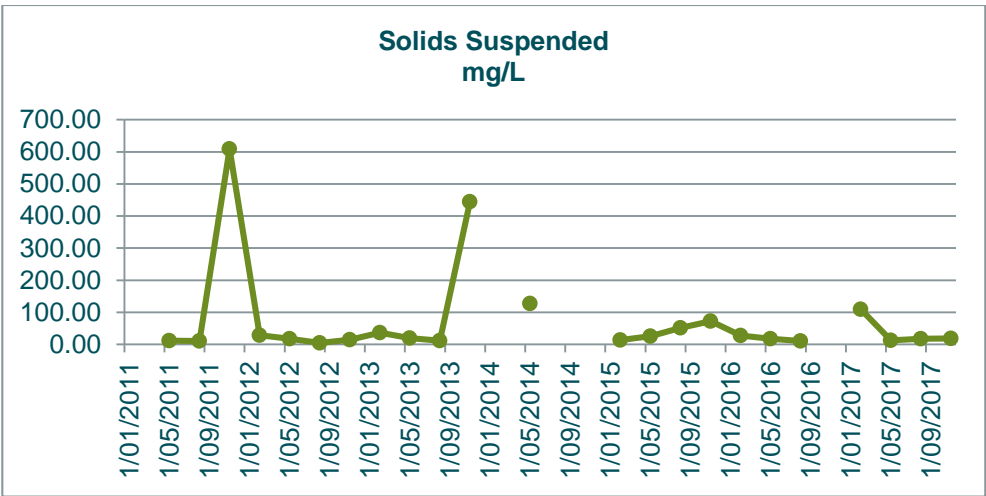
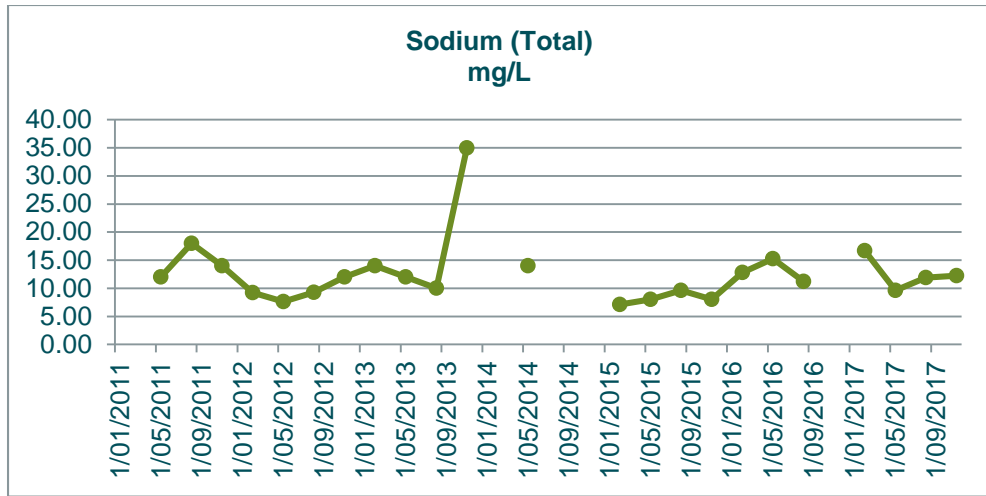




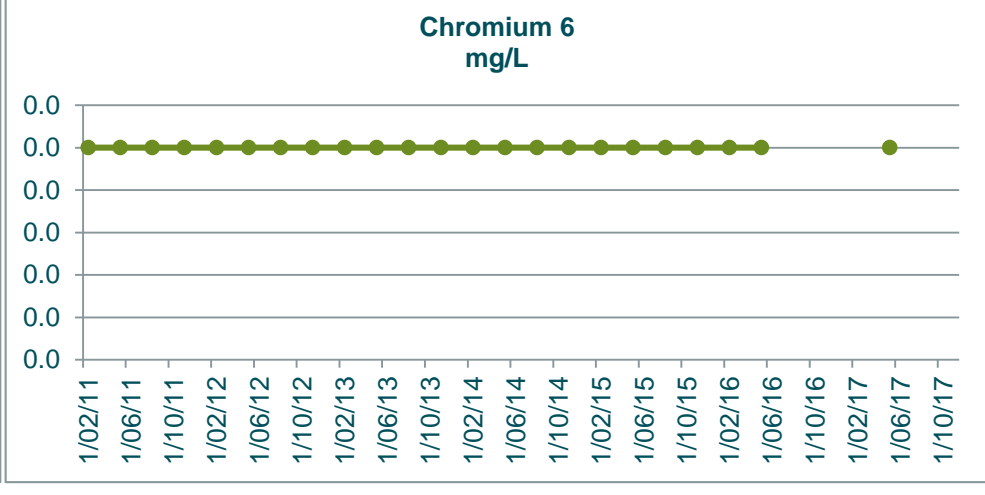
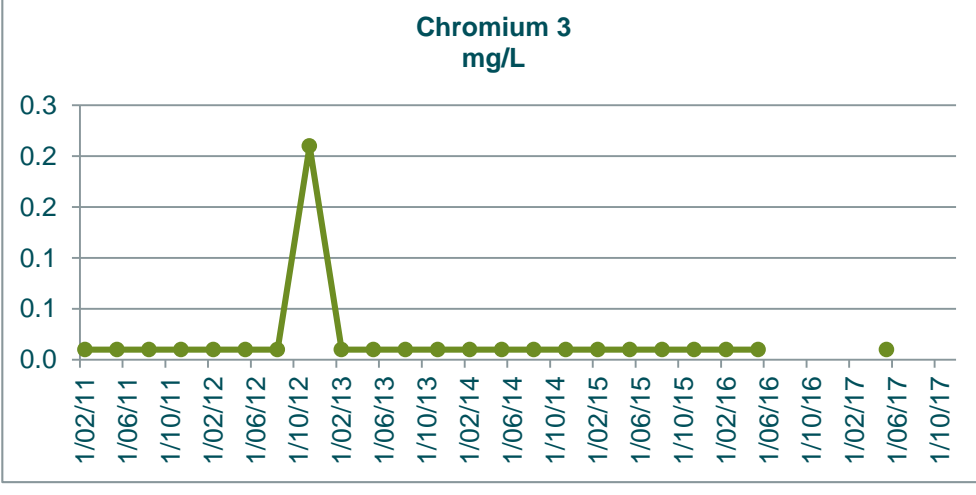
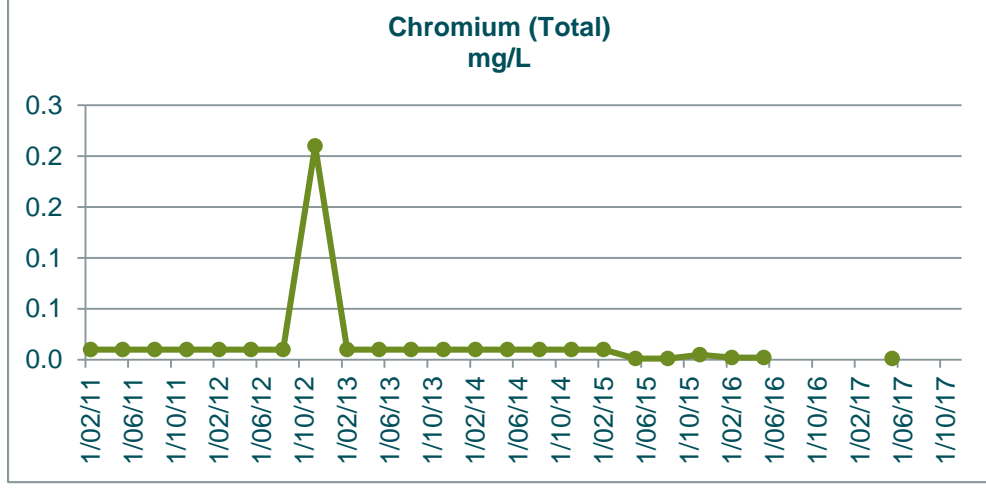
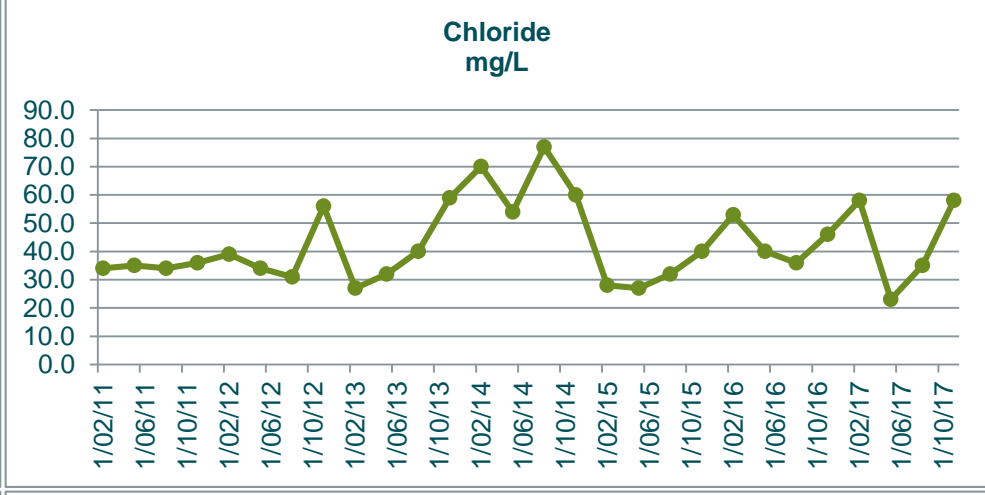
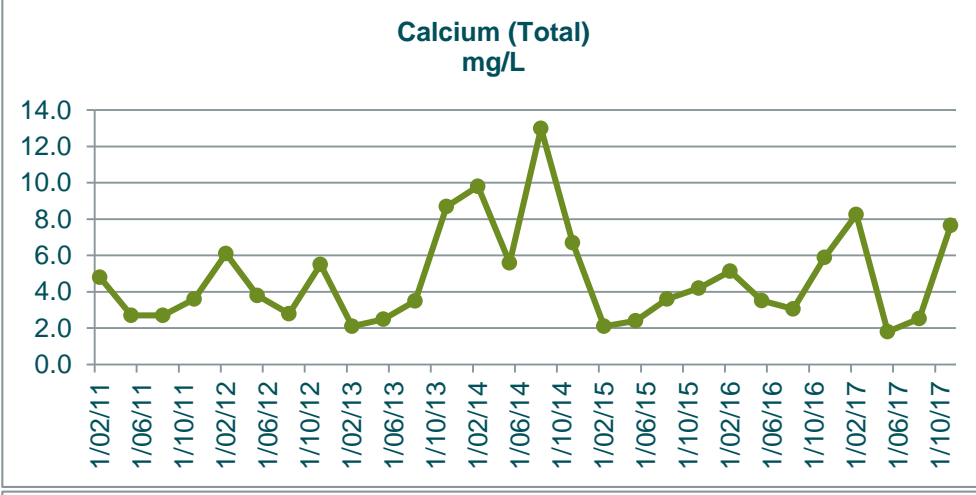
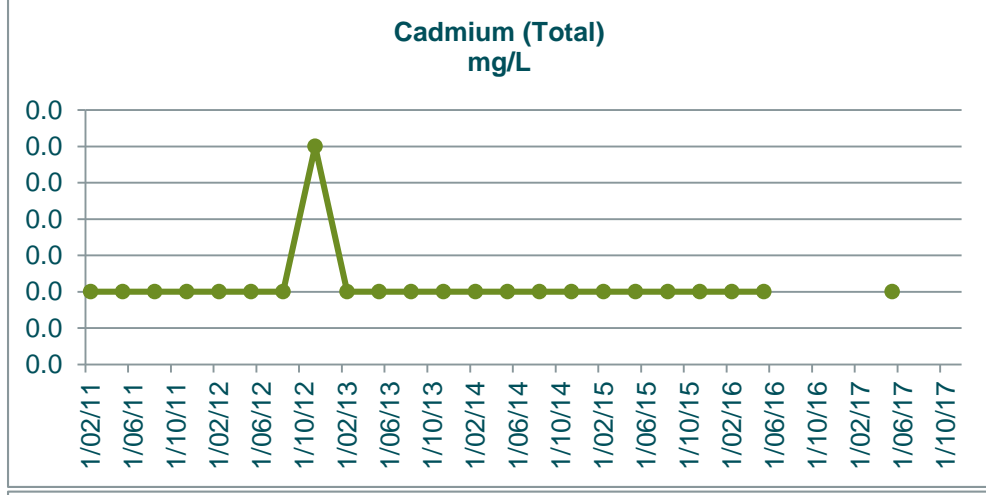
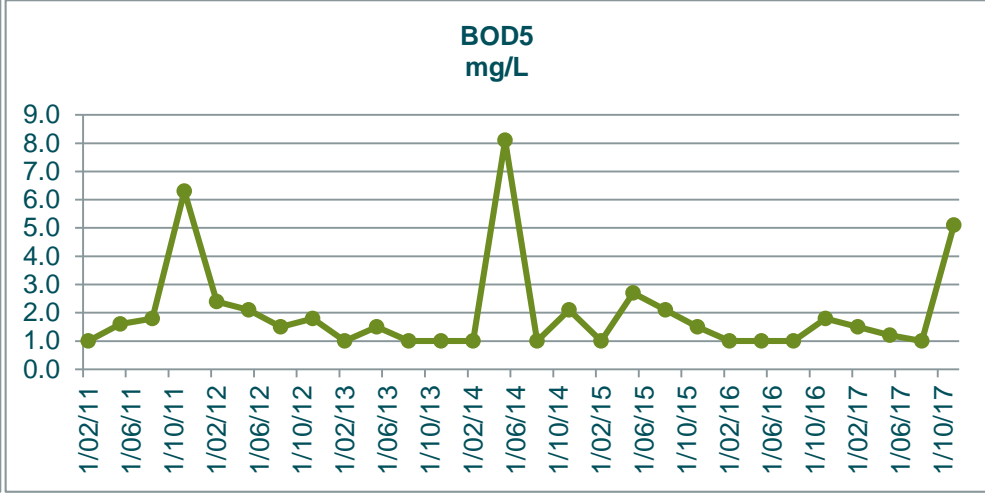
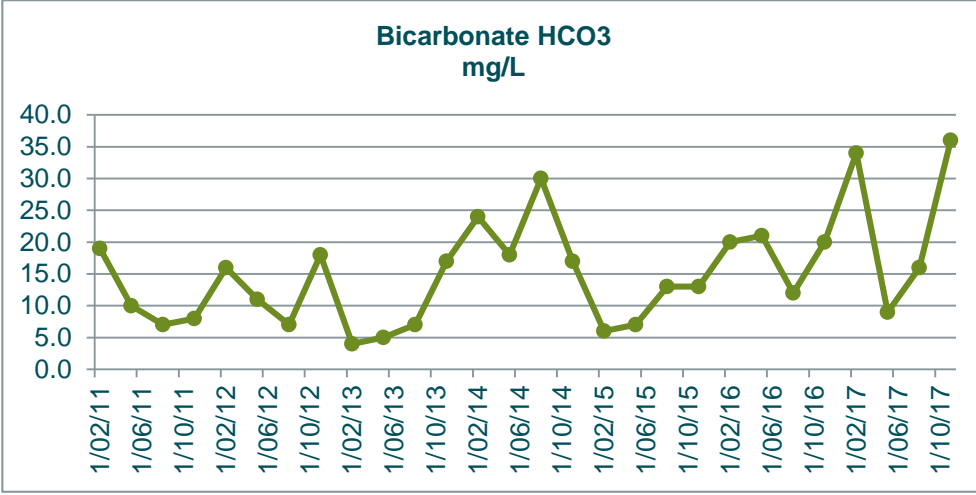
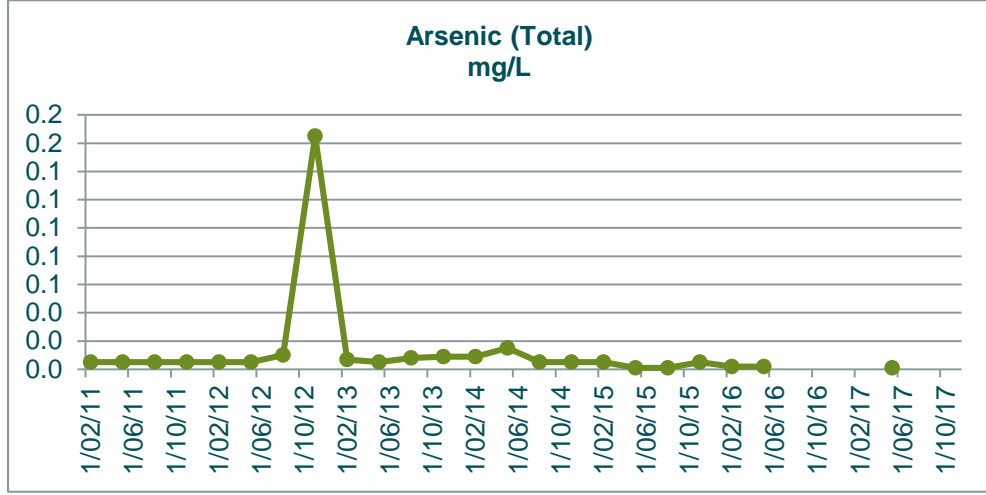
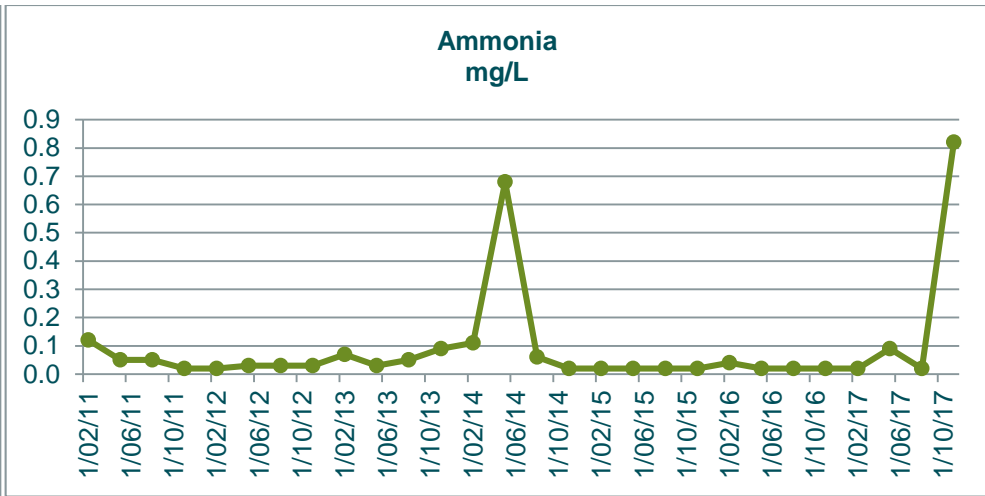
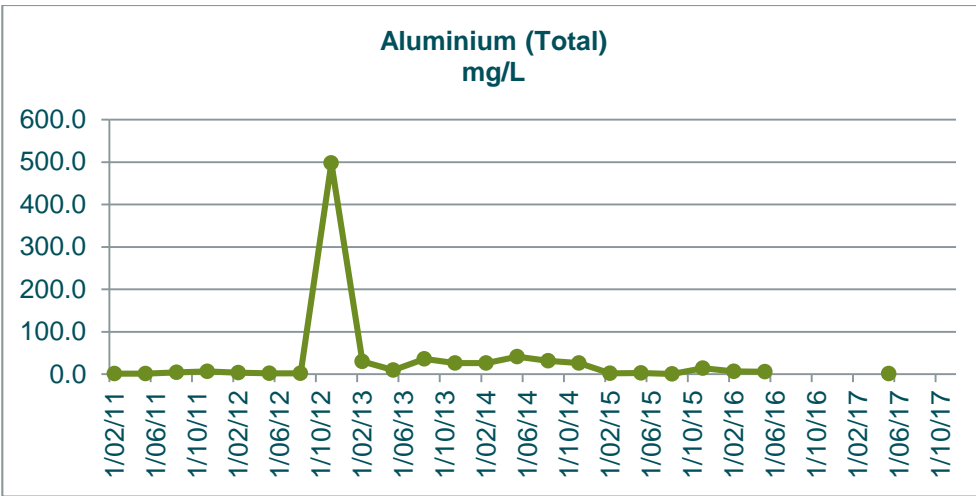
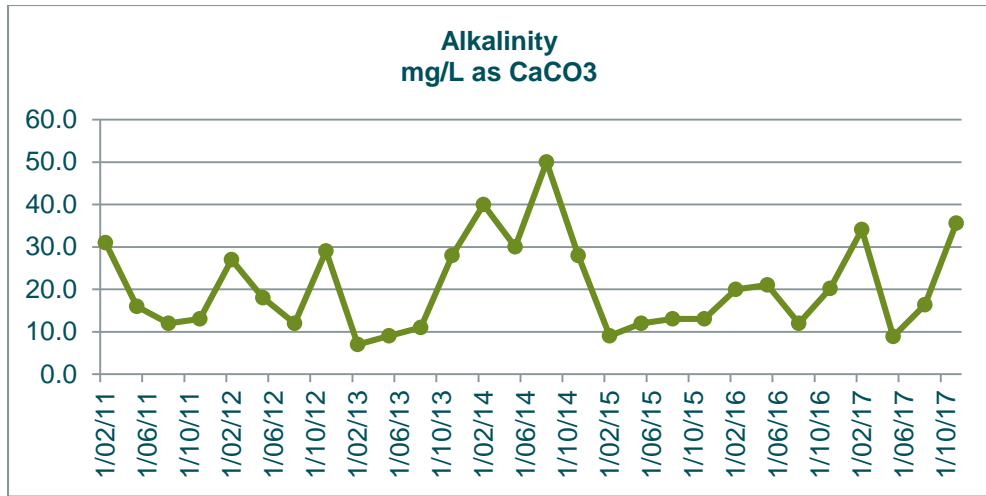
SW4	Alkalinity mg/L as CaCO3	Ammonia mg/L	Arsenic (Total) mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	Orthophosphate mg/L	pH pH units	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Solids Suspended mg/L	Sulphate mg/L	TKN mg/L	TOC mg/L	Zinc (Total) mg/L	
31/01/2011																															
10/05/2011	84.00	0.05	0.01	1.50	0.00	24.00	15.00	0.01	260.00	0.01	1.70	0.01	3.90	1.45	0.01	0.05	0.05	0.05	0.37	0.05	6.10	0.05	5.00	148.00	12.00	12.00	3.70	0.37	3.20	0.01	
9/08/2011	160.00	0.05	0.01	2.40	0.00	40.00	25.00	0.01	395.00	0.01	2.60	0.01	6.90	0.84	0.01	0.05	0.05	0.05	0.44	0.05	6.70	0.05	5.00	208.00	18.00	11.00	7.40	0.44	8.50	0.01	
8/11/2011	180.00	0.03	0.01	5.10	0.00	58.00	30.00	0.01	439.00	0.06	1.90	0.02	9.80	3.29	0.01	0.03	0.02	0.03	0.81	0.02	6.80	0.08	6.00	69.40	14.00	609.00	5.10	0.78	12.00	0.03	
6/02/2012	48.00	0.04	0.01	6.00	0.00	12.00	11.00	0.01	142.00	0.01	1.00	0.01	3.40	2.31	0.01	0.02	0.02	0.05	0.67	0.02	6.40	0.06	5.00	137.00	9.20	29.00	1.00	0.67	4.60	0.01	
8/05/2012	50.00	0.03	0.01	1.00	0.00	11.00	11.00	0.01	118.00	0.01	4.30	0.01	2.50	1.08	0.01	0.03	0.02	0.03	0.38	0.02	6.30	0.04	5.00	207.00	7.60	18.00	2.80	0.35	3.80	0.01	
7/08/2012	100.00	0.02	0.01	1.00	0.00	23.00	17.00	0.01	255.00	0.01	3.30	0.01	4.30	0.12	0.01	0.02	0.02	0.02	0.24	0.02	6.70	0.02	5.00	176.00	9.30	5.00	7.20	0.22	4.30	0.01	
14/11/2012	36.00	0.02	0.01	1.00	0.00	19.00	23.00	0.01	257.00	0.01	2.30	0.01	4.10	0.45	0.01	0.03	0.02	0.03	0.40	0.02	6.50	0.06	5.00	161.00	12.00	15.00	31.00	0.37	4.30	0.02	
14/02/2013	58.00	0.06	0.01	5.20	0.00	17.00	25.00	0.01	224.00	0.01	1.00	0.01	4.00	1.96	0.01	0.04	0.02	0.04	0.65	0.02	6.20	0.06	5.00	146.00	14.00	37.00	6.90	0.61	6.60	0.02	
15/05/2013	72.00	0.04	0.01	1.80	0.00	24.00	20.00	0.01	242.00	0.01	1.30	0.01	3.80	1.64	0.01	0.03	0.02	0.03	0.36	0.02	6.30	0.03	5.00	137.00	12.00	20.00	9.40	0.33	4.50	0.01	
7/08/2013	58.00	0.02	0.01	1.00	0.00	19.00	12.00	0.01	158.00	0.01	2.10	0.01	3.10	0.17	0.01	0.03	0.02	0.03	0.40	0.02	6.40	0.05	5.00	143.00	10.00	12.00	5.00	0.37	3.40	0.01	
13/11/2013	130.00	0.13	0.01	5.70	0.00	40.00	50.00	0.01	510.00	0.03	4.20	0.01	7.40	5.70	0.01	0.11	0.02	0.11	0.91	0.02	6.10	0.03	5.00	-9.00	35.00	445.00	39.00	0.80	6.60	0.07	
11/02/2014																															
14/05/2014	26.00	0.05	0.01	2.70	0.00	14.00	28.00	0.01	214.00	0.01	7.10	0.01	2.40	0.72	0.01	1.23	0.03	1.26	1.97	0.02	6.10	0.17	5.00	33.00	14.00	127.00	16.00	0.71	4.50	0.02	
12/08/2014																															
10/11/2014																															
10/02/2015	35.00	0.03	0.01	3.00	0.00	10.00	17.00	0.01	118.00	0.01	2.70	0.01	2.20	0.32	0.01	0.04	0.02	0.04	0.94	0.02	7.00	0.10	5.00	153.00	7.10	14.00	2.70	0.90	7.20	0.01	
12/05/2015	38.00	0.02	0.00	2.70	0.00	12.00	10.00	0.00	116.00	0.00	3.40	0.00	2.50	0.51	0.00	0.02	0.02	0.02	0.84	0.02	6.00	0.11	5.00	186.00	8.00	26.00	2.00	0.84	5.00	0.05	
12/08/2015	54.00	0.02	0.00	14.00	0.00	18.00	12.00	0.00	152.00	0.00	5.30	0.00	3.40	0.66	0.00	0.02	0.02	0.02	0.96	0.02	7.00	0.11	5.00	135.00	9.60	52.00	3.20	0.96	6.00	0.03	
11/11/2015	32.00	0.02	0.00	2.70	0.00	11.00	11.00	0.00	124.00	0.01	1.70	0.00	2.50	0.65	0.00	0.02	0.02	0.02	0.76	0.02	6.40	0.13	5.00	148.00	8.00	73.00	8.60	0.76	5.90	0.01	
9/02/2016	65.00	0.02	0.00	6.00	0.00	20.87	26.00	0.00	215.00	0.00	3.80	0.00	3.71	0.71	0.00	0.02	0.02	0.02	2.18	0.02	6.80	0.31	5.00	131.00	12.81	28.00	6.06	2.18	8.97	0.01	
10/05/2016	80.00	0.02	0.00	8.10	0.00	23.67	26.00	0.00	257.00	0.00	5.50	0.00	4.30	0.82	0.00	0.02	0.02	0.02	1.29	0.02	6.70	0.16	5.48	104.00	15.27	18.00	3.04	1.29	11.33	0.01	
10/08/2016	63.30	0.02		3.30		19.79	14.00		193.50		3.10		4.20			0.02	0.02	0.02	0.48	0.02	6.40	0.08	5.00	240.00	11.23	11.00	8.74	0.48	6.00		
8/11/2016																															
8/02/2017	93.40	0.08		22.00		26.39	24.00		286.50		1.10		5.18			0.02	0.05	0.02	2.80	0.02	6.50	0.49	6.42	84.40	16.66	109.00	5.54	2.80	15.78		
9/05/2017	33.20	0.03		3.00	0.00	13.31	16.00	0.00	158.70	0.00	2.00	0.00	3.03	0.37	0.00	0.22	0.02	0.24	0.66	0.02	6.00	0.07	5.00	361.90	9.61	13.00	16.60	0.42	4.89	0.01	
9/08/2017	85.05	0.02		2.70		24.73	20.00		224.10		2.00		4.47			0.02	0.02	0.02	0.53	0.02	6.00	0.08	5.00	334.00	11.89	18.00	4.33	0.53	7.66		
8/11/2017	45.84	0.03		2.70		16.32	22.50		189.50		1.90		3.03			0.02	0.11	0.11	0.74	0.02	6.10	0.15	5.00	391.60	12.22	19.00	10.48	0.63	6.97		
2017 Min	33.20	0.02	0.00	2.70	0.00	13.31	16.00	0.00	158.70	0.00	1.10	0.00	3.03	0.37	0.00	0.02	0.02	0.02	0.53	0.02	6.00	0.07	5.00	84.40	9.61	13.00	4.33	0.42	4.89	0.01	
2017 Max	93.40	0.08	0.00	22.00	0.00	26.39	24.00	0.00	286.50	0.00	2.00	0.00	5.18	0.37	0.00	0.22	0.11	0.24	2.80	0.02	6.50	0.49	6.42	391.60	16.66	109.00	16.60	2.80	15.78	0.01	
2017 Mean	64.37	0.04	#DIV/0!	7.60	0.00	20.19	20.63	0.00	214.70	0.00	1.75	0.00	3.93	0.37	0.00	0.07	0.05	0.10	1.18	0.02	6.15	0.20	5.35	292.98	12.60	39.75	9.24	1.10	8.83	0.01	

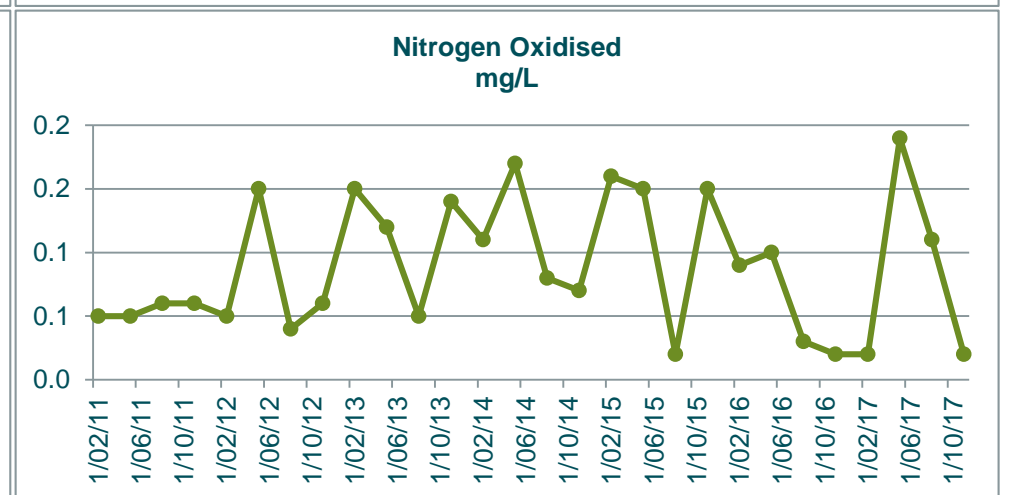
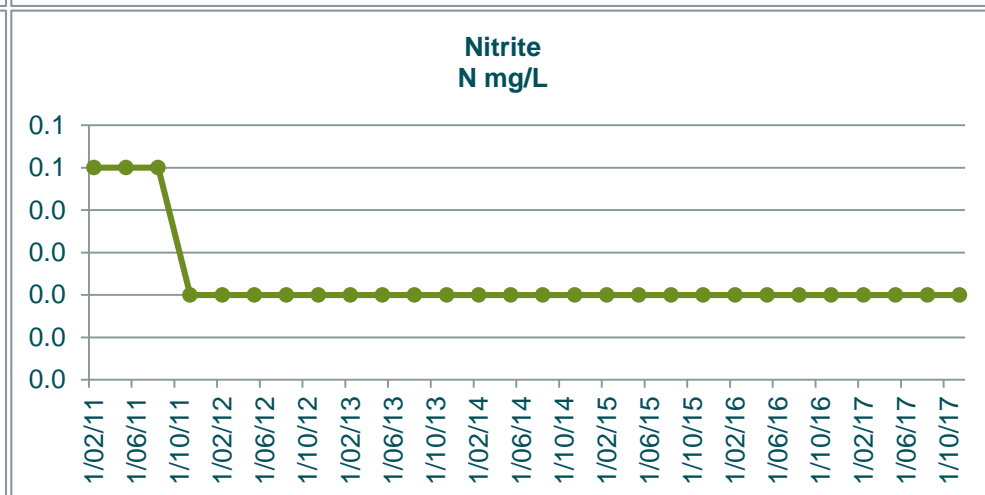
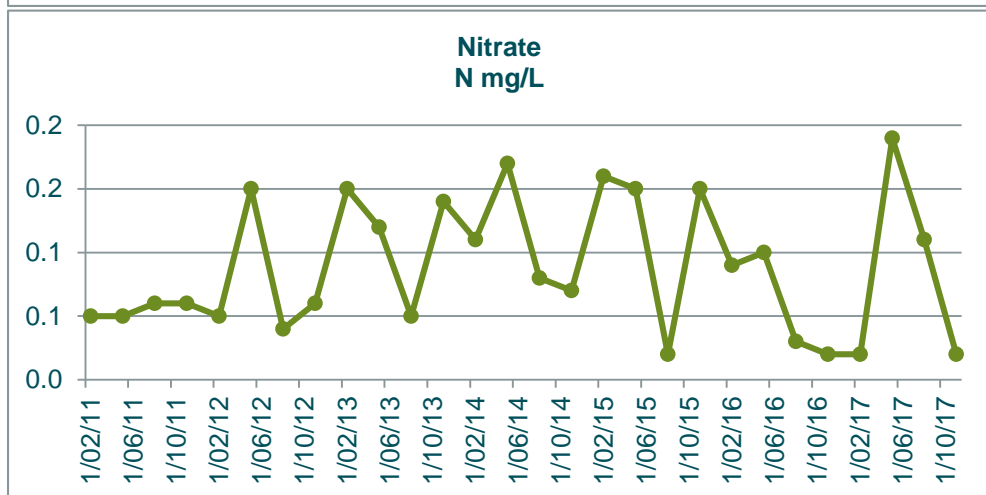
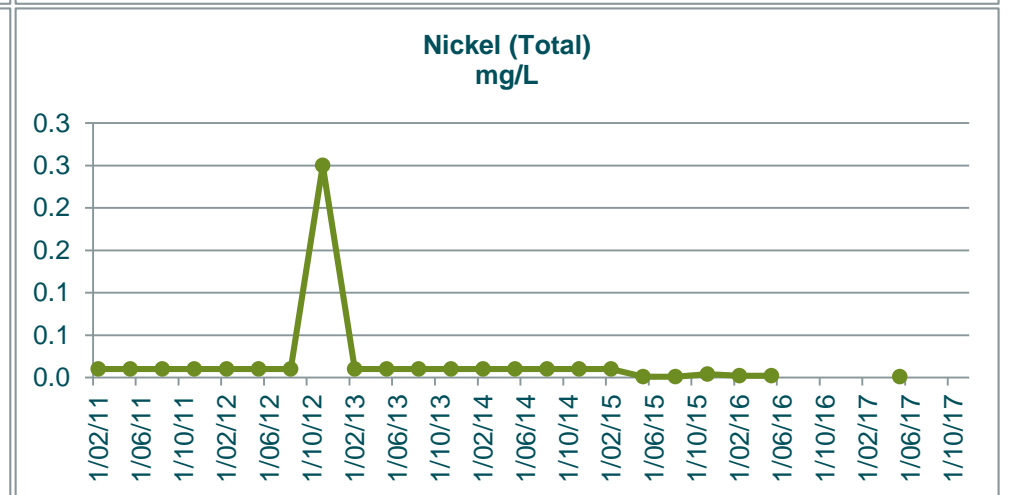
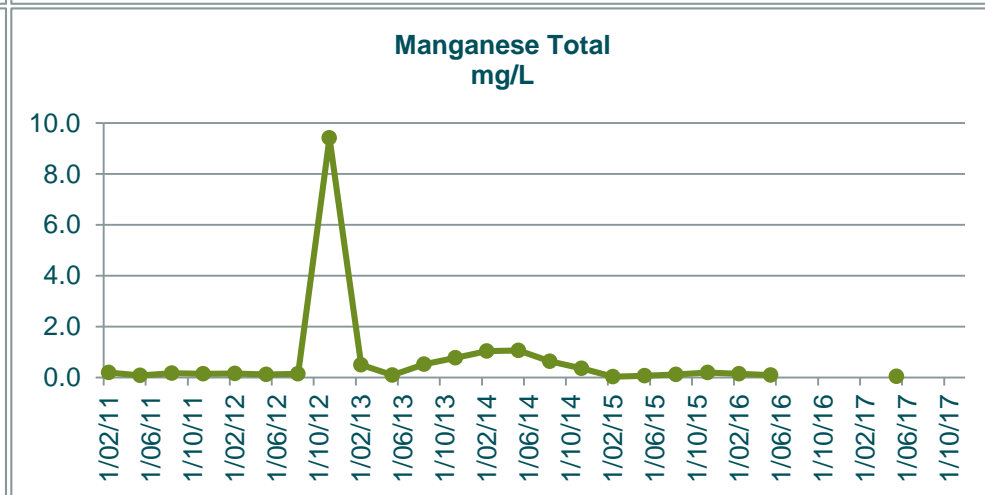
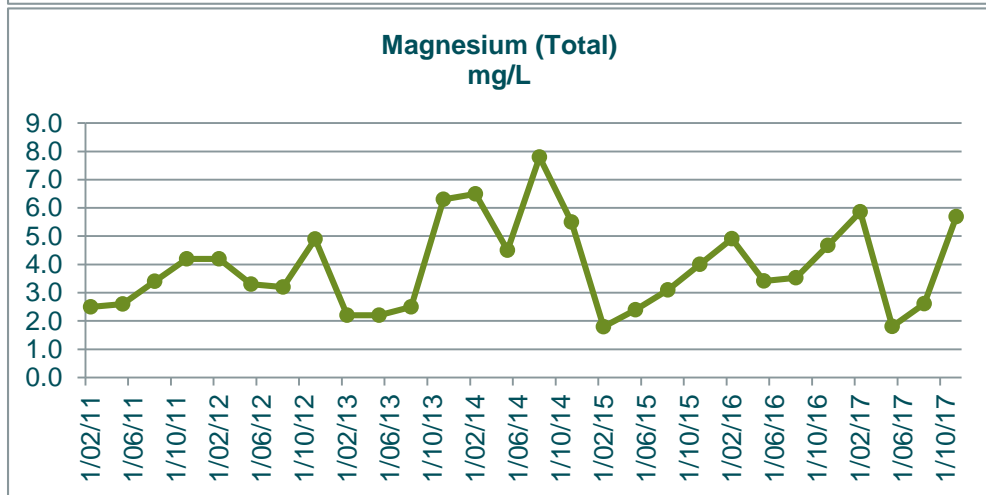
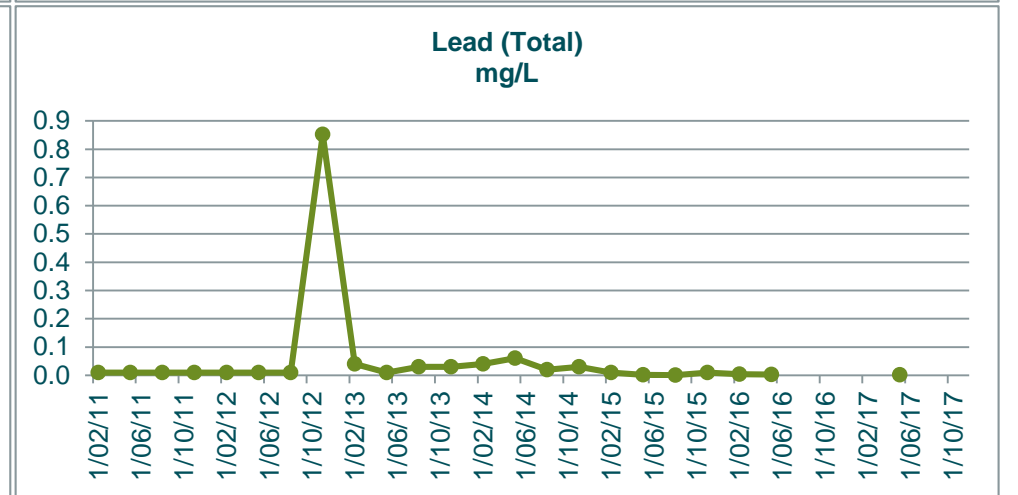
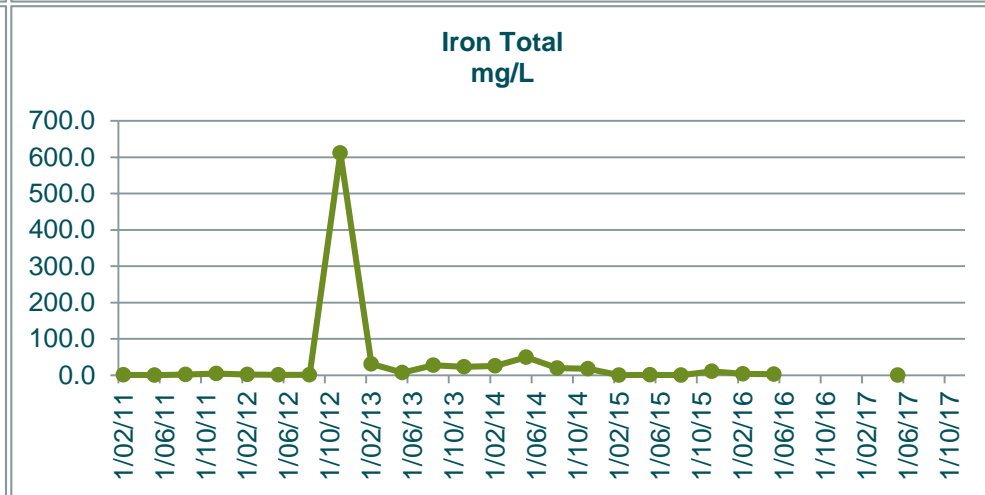
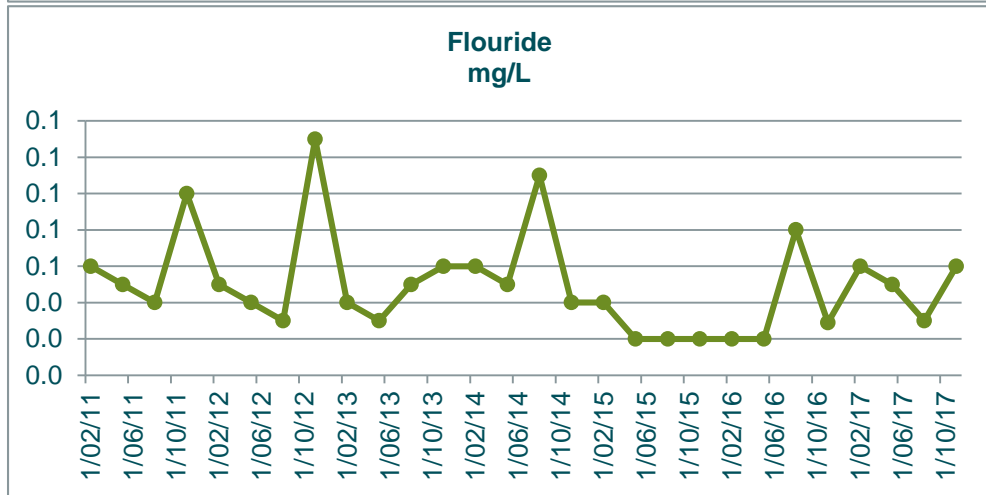
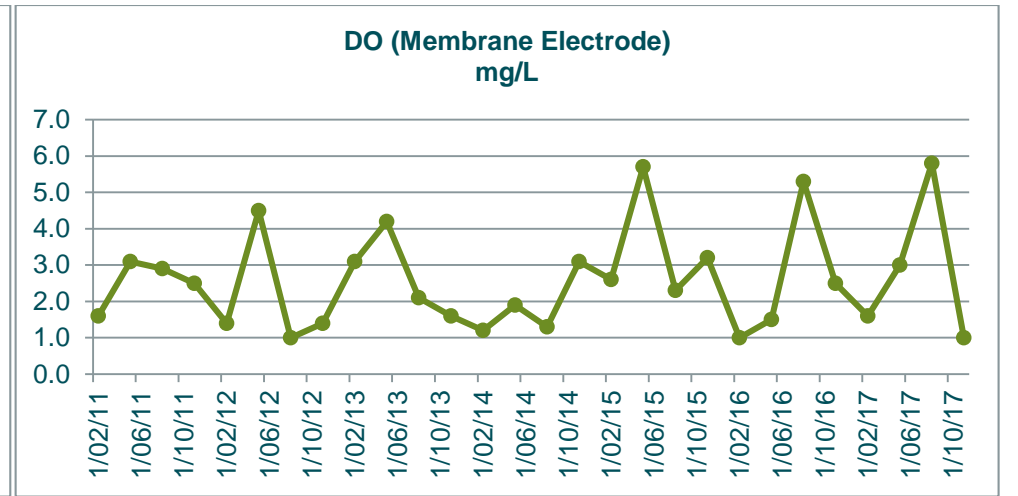
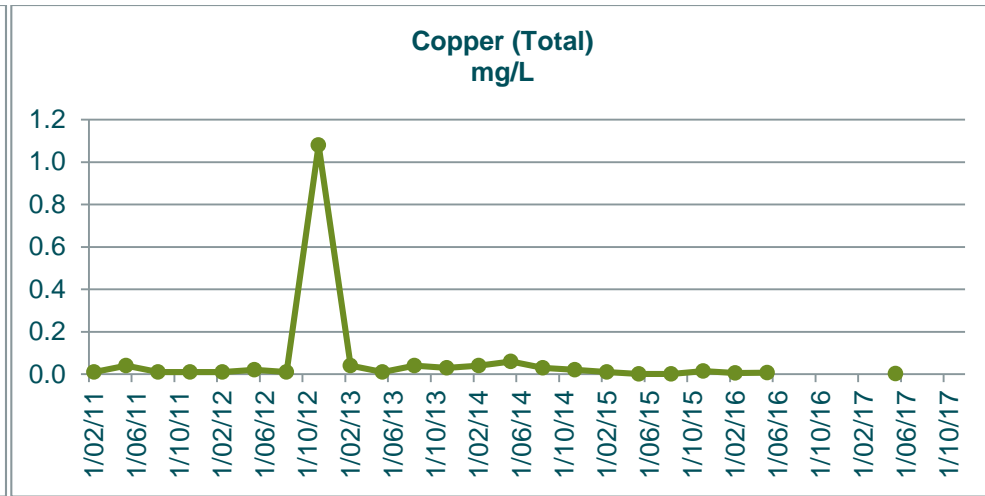
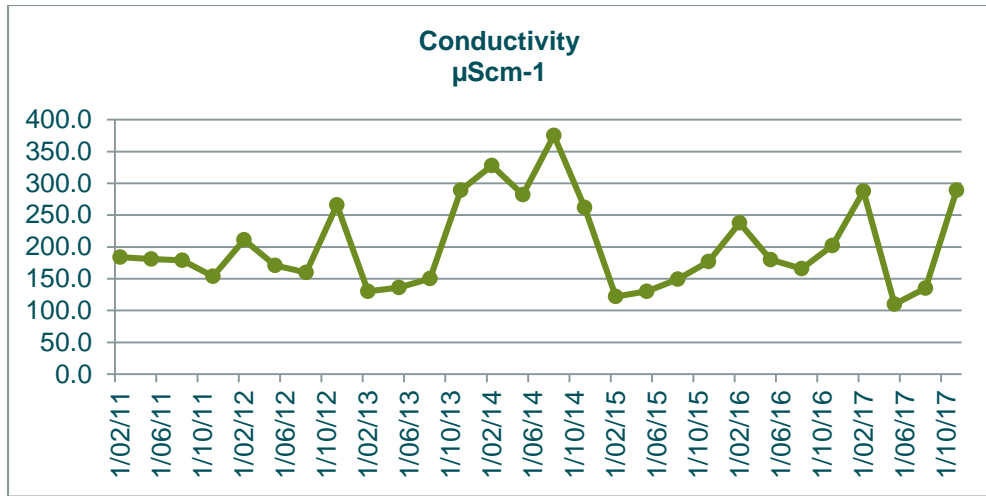


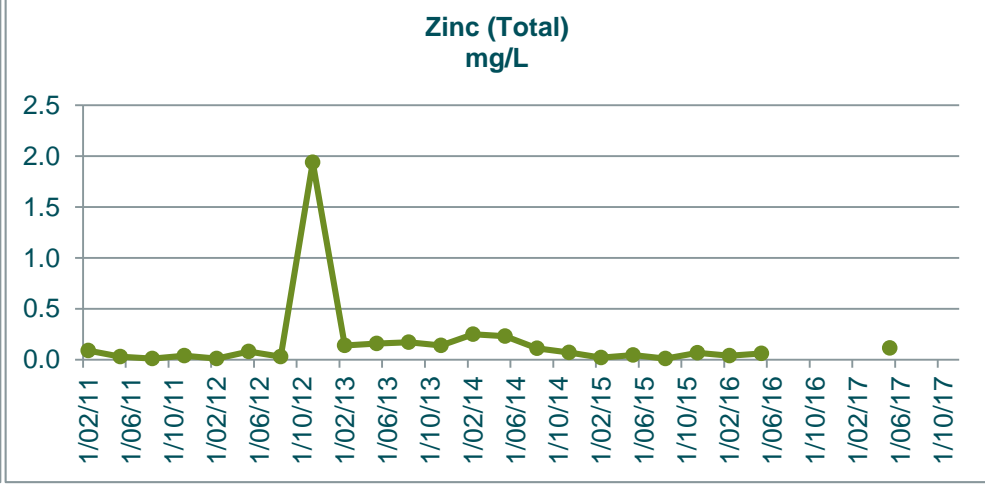
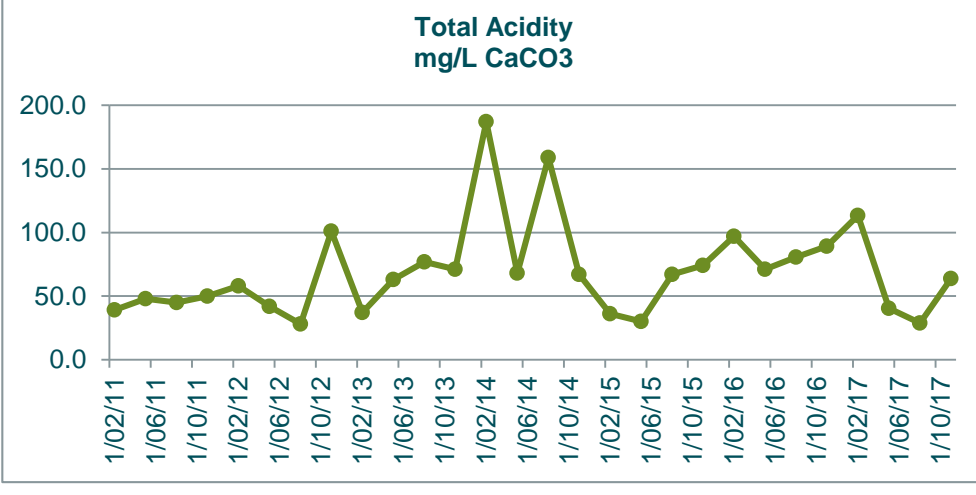
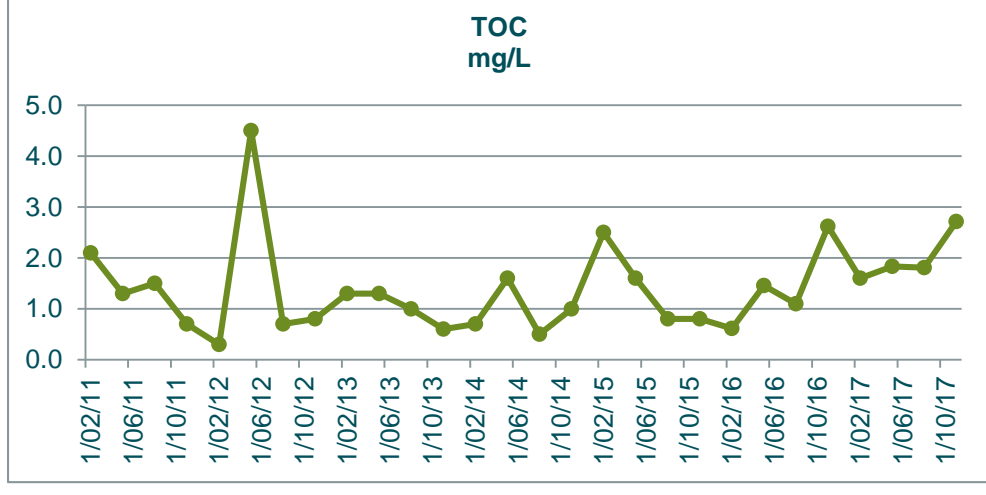
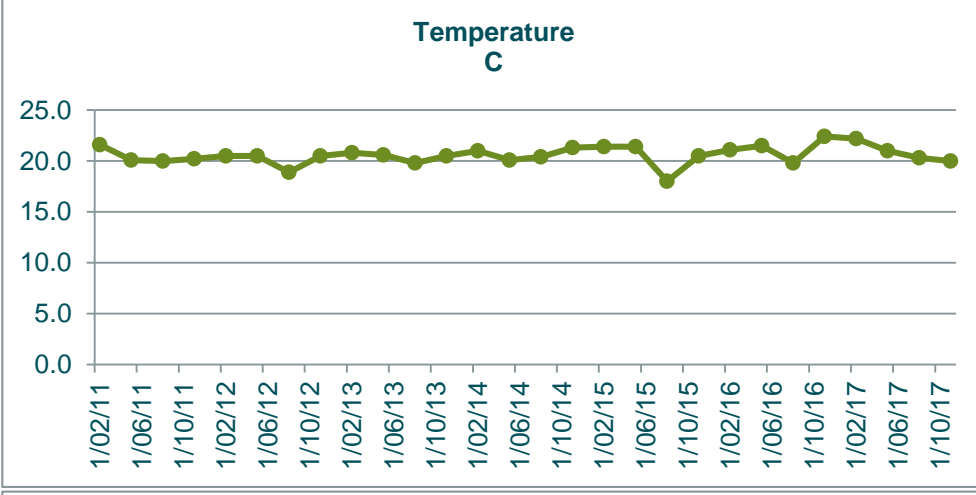
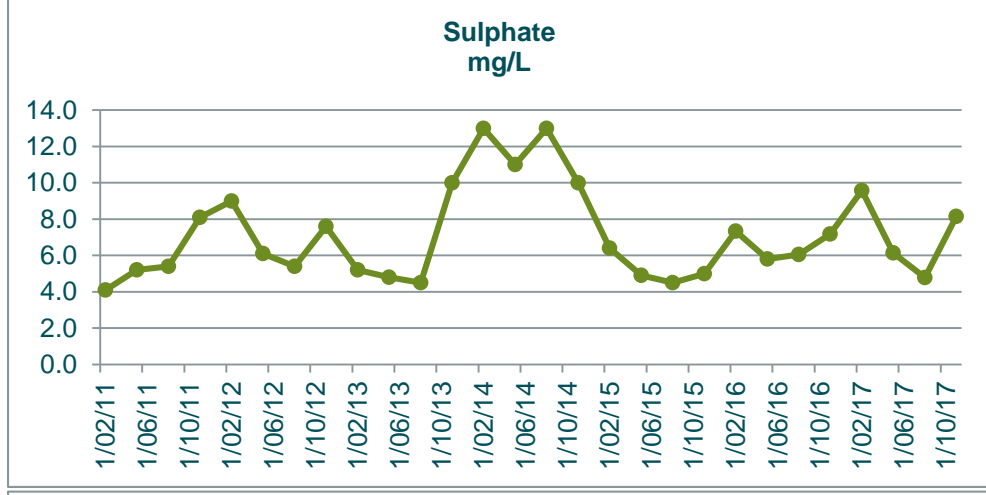
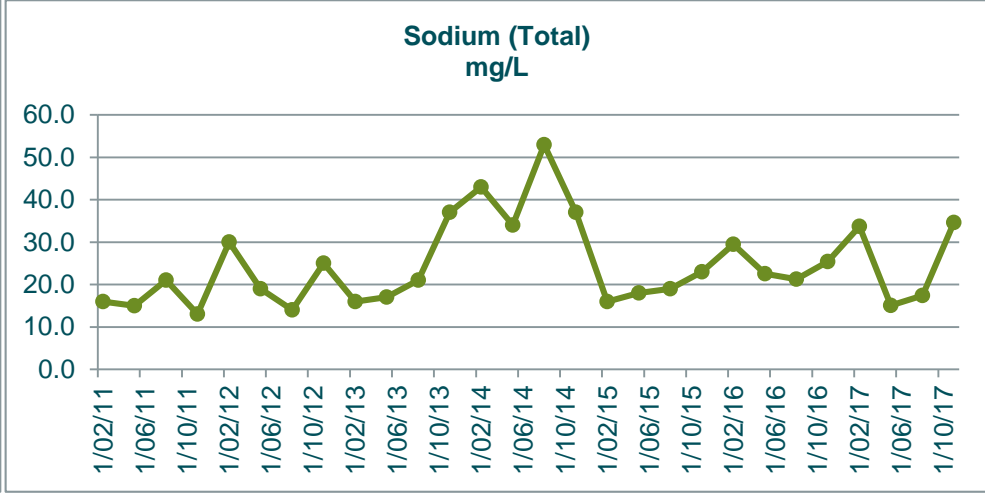
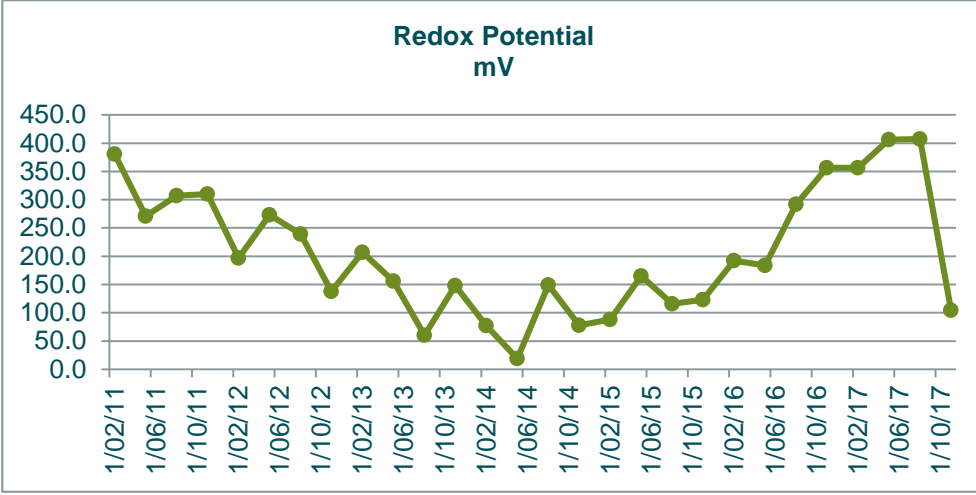
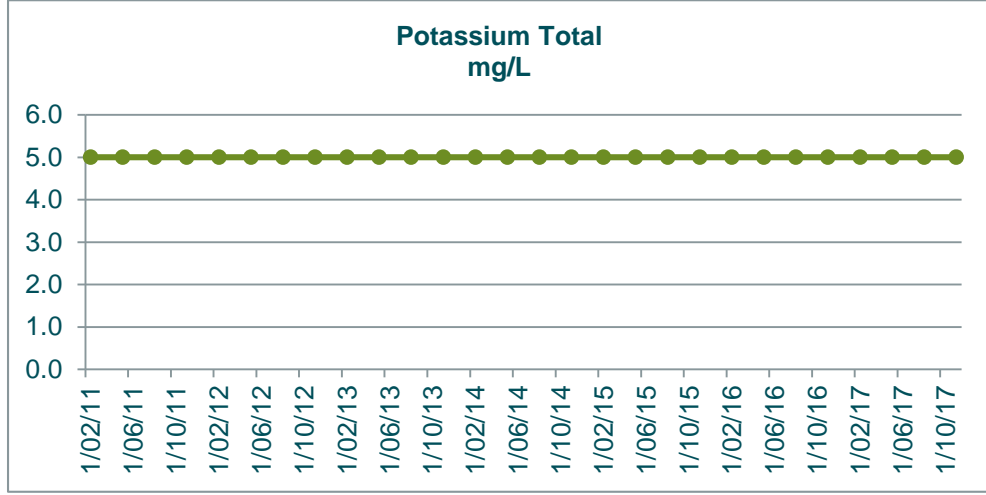
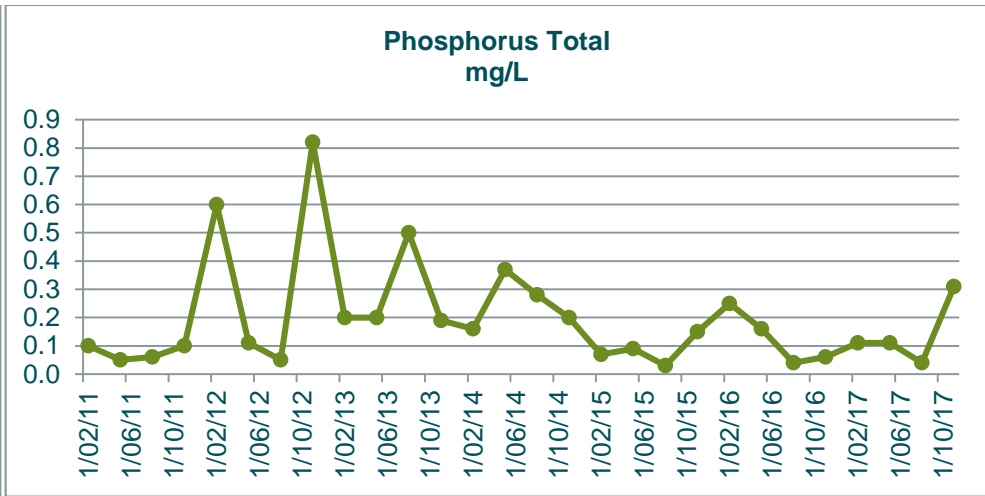
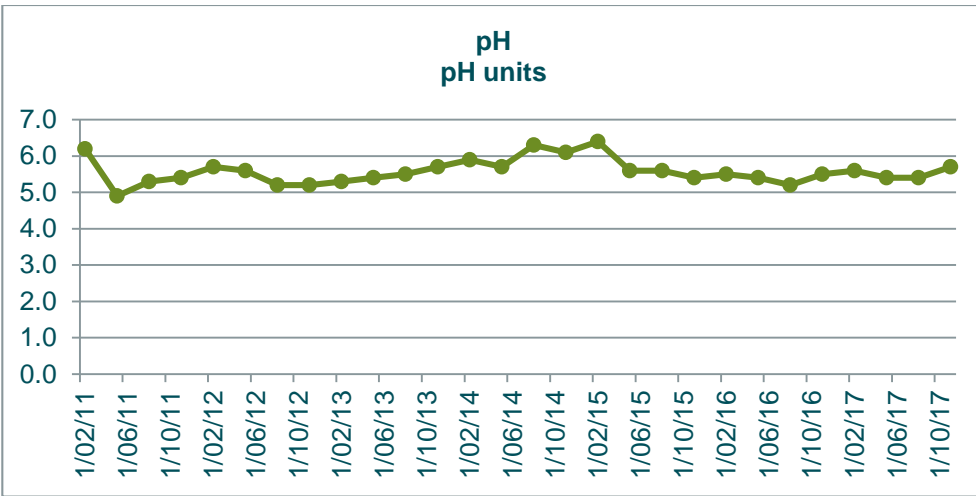
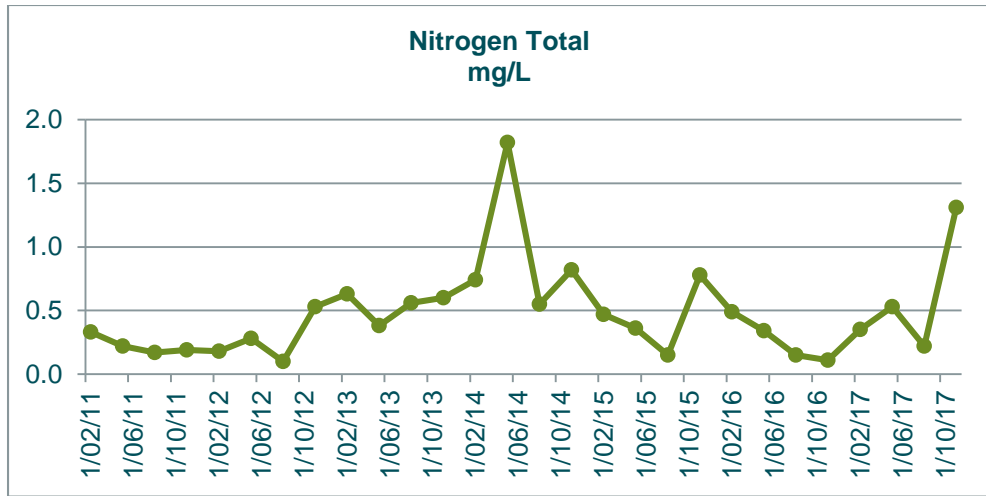




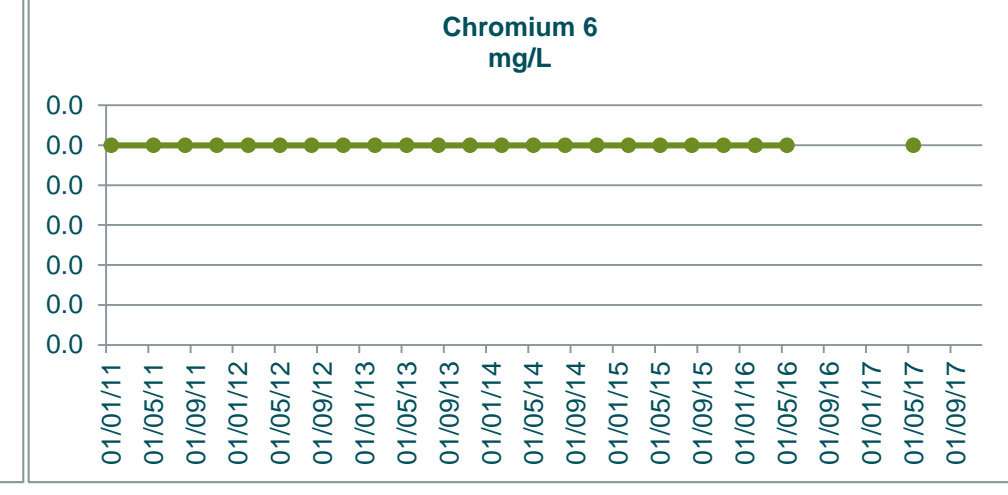
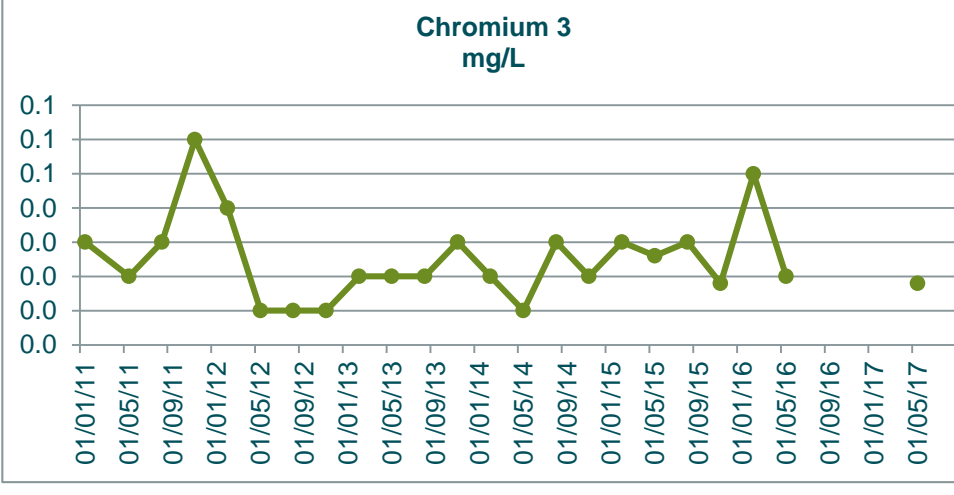
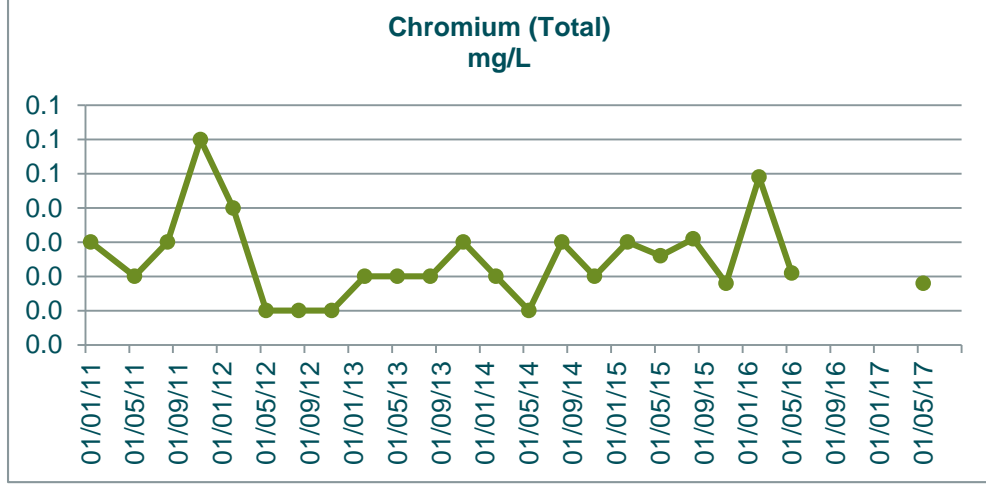
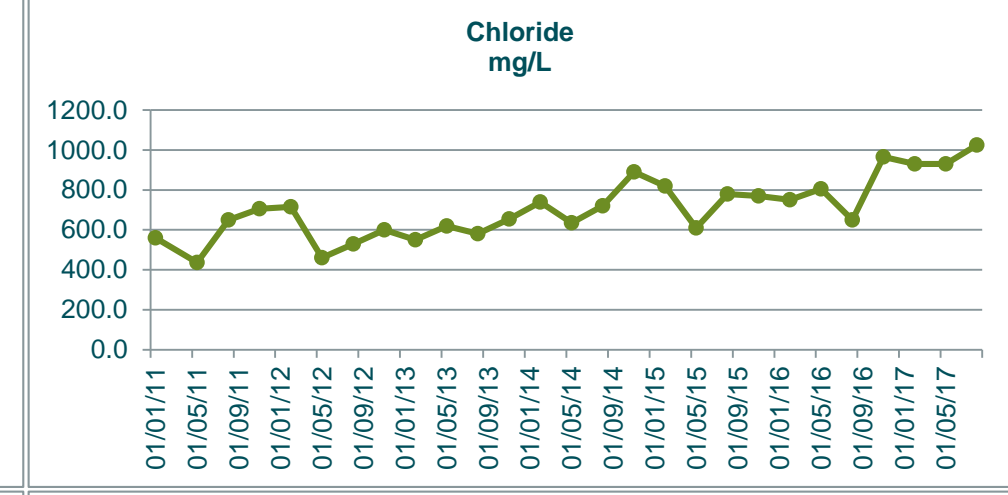
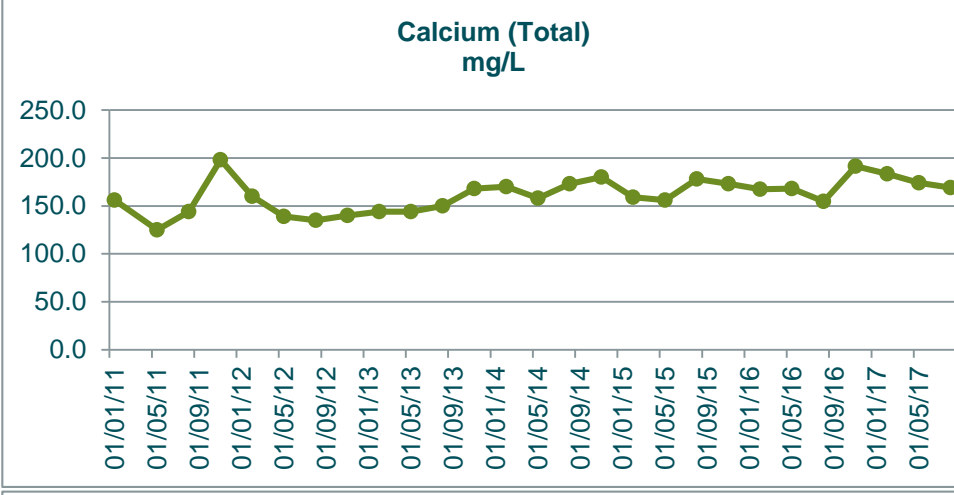
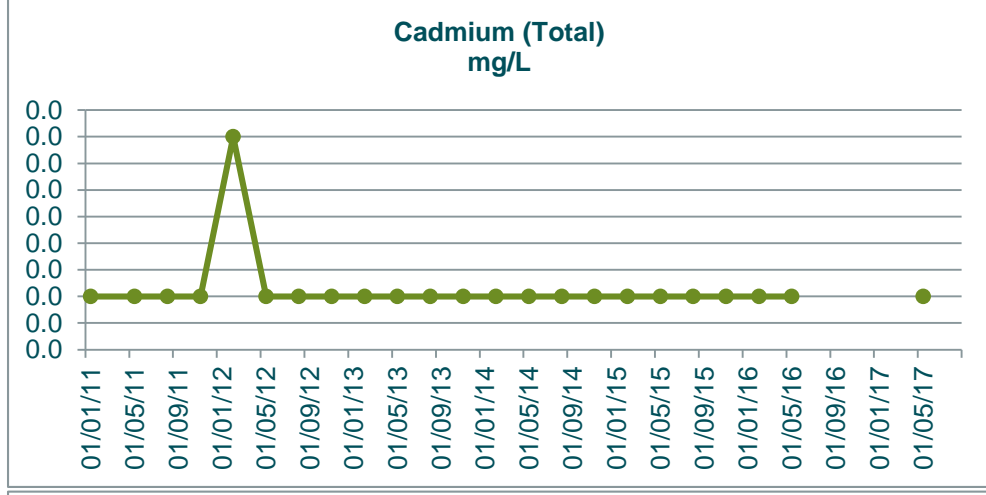
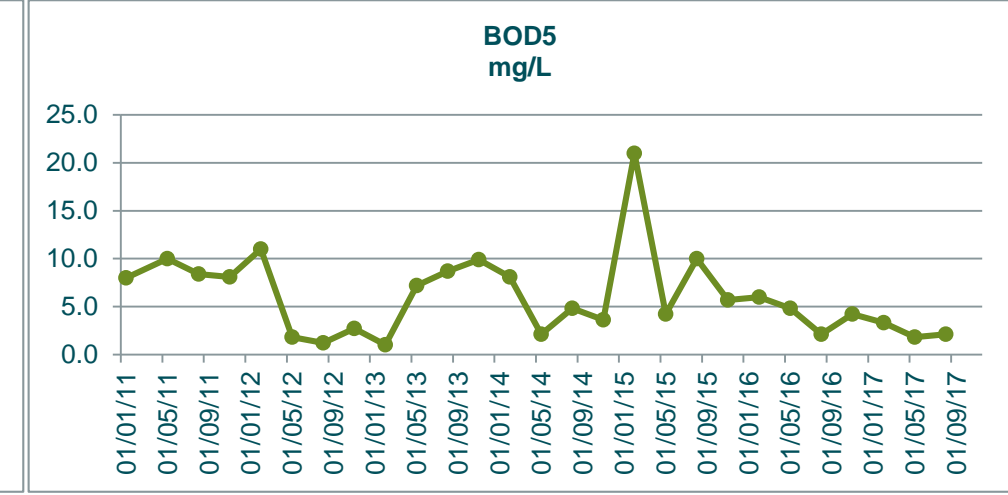
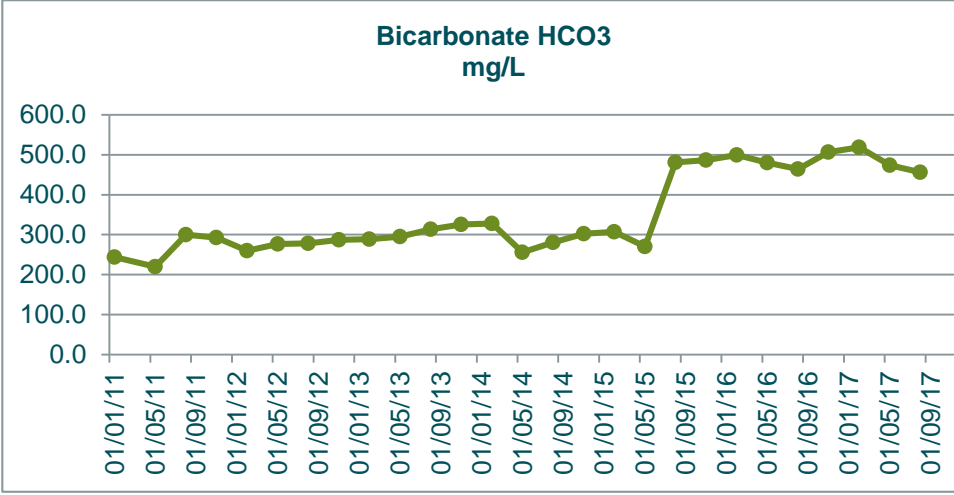
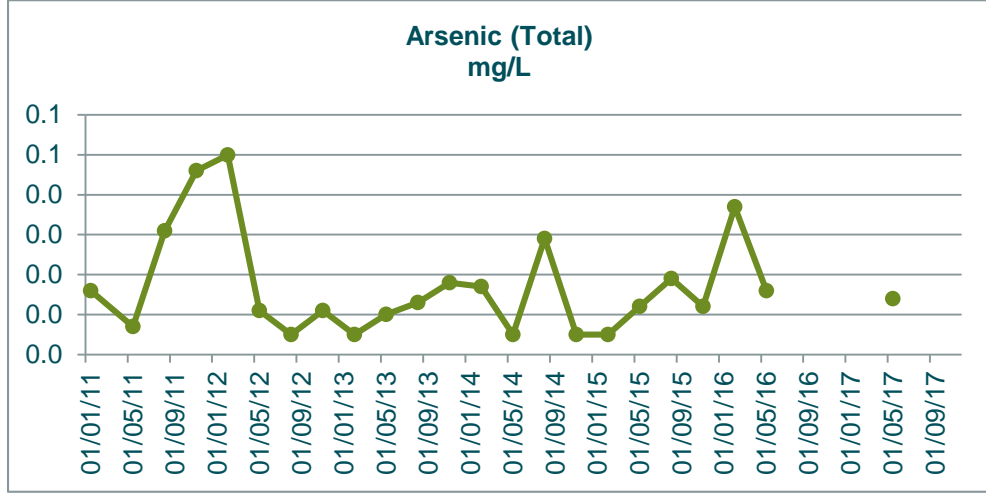
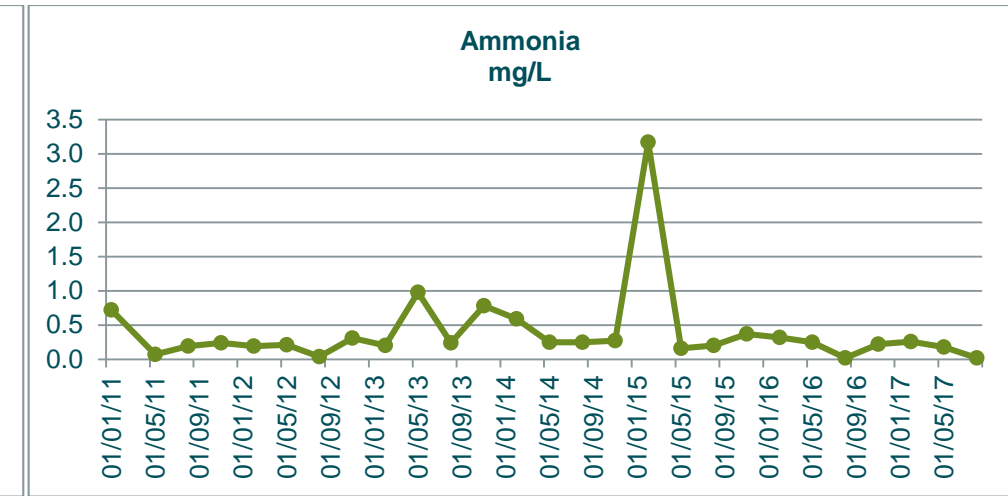
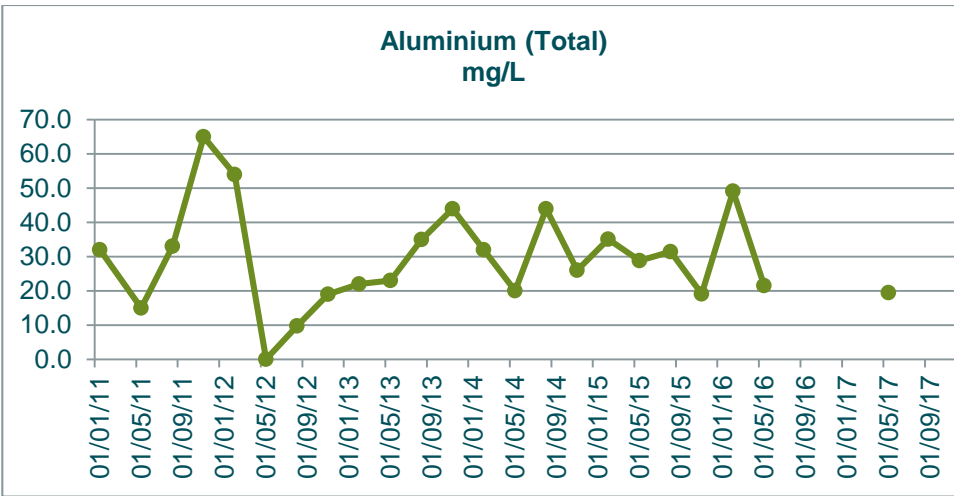
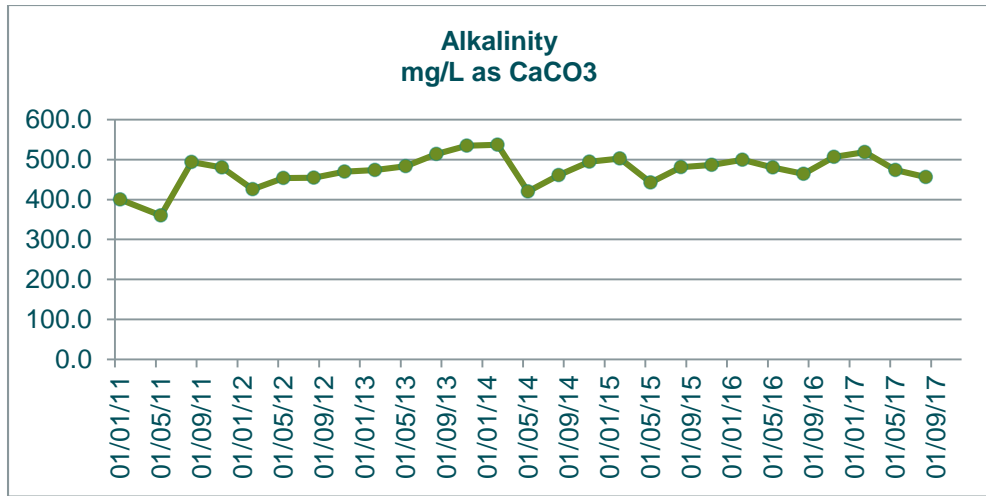
GW1	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L
1/02/11	31.0	1.1	0.1	0.0	19.0	1.0	0.0	4.8	34.0	0.0	0.0	0.0	184.0	0.0	1.6	0.1	1.0	0.0	2.5	0.2	0.0	0.1	0.1	0.1	0.3	6.2		0.1	5.0	381.0	16.0	4.1	21.6	0.3	2.1	39.0	0.1
11/05/11	16.0	1.1	0.1	0.0	10.0	1.6	0.0	2.7	35.0	0.0	0.0	0.0	181.0	0.0	3.1	0.1	0.8	0.0	2.6	0.1	0.0	0.1	0.1	0.1	0.2	4.9		0.1	5.0	271.0	15.0	5.2	20.1	0.2	1.3	48.0	0.0
10/08/11	12.0	3.9	0.1	0.0	7.0	1.8	0.0	2.7	34.0	0.0	0.0	0.0	179.0	0.0	2.9	0.0	2.5	0.0	3.4	0.2	0.0	0.1	0.1	0.1	0.2	5.3		0.1	5.0	307.0	21.0	5.4	20.0	0.1	1.5	45.0	0.0
9/11/11	13.0	6.6	0.0	0.0	8.0	6.3	0.0	3.6	36.0	0.0	0.0	0.0	154.0	0.0	2.5	0.1	5.0	0.0	4.2	0.2	0.0	0.1	0.0	0.1	0.2	5.4		0.1	5.0	310.0	13.0	8.1	20.2	0.1	0.7	50.0	0.0
7/02/12	27.0	3.0	0.0	0.0	16.0	2.4	0.0	6.1	39.0	0.0	0.0	0.0	211.0	0.0	1.4	0.1	2.6	0.0	4.2	0.2	0.0	0.1	0.0	0.1	0.2	5.7		0.6	5.0	197.0	30.0	9.0	20.5	0.1	0.3	58.0	0.0
9/05/12	18.0	2.1	0.0	0.0	11.0	2.1	0.0	3.8	34.0	0.0	0.0	0.0	171.0	0.0	4.5	0.0	1.5	0.0	3.3	0.1	0.0	0.2	0.0	0.2	0.3	5.6		0.1	5.0	273.0	19.0	6.1	20.5	0.1	4.5	42.0	0.1
7/08/12	12.0	1.7	0.0	0.0	7.0	1.5	0.0	2.8	31.0	0.0	0.0	0.0	160.0	0.0	1.0	0.0	1.0	0.0	3.2	0.1	0.0	0.0	0.0	0.0	0.1	5.2		0.1	5.0	239.0	14.0	5.4	18.9	0.1	0.7	28.0	0.0
14/11/12	29.0	498.0	0.0	0.2	18.0	1.8	0.0	5.5	56.0	0.2	0.2	0.0	266.0	1.1	1.4	0.1	612.0	0.9	4.9	9.4	0.3	0.1	0.0	0.1	0.5	5.2		0.8	5.0	138.0	25.0	7.6	20.5	0.5	0.8	101.0	1.9
14/02/13	7.0	30.0	0.1	0.0	4.0	1.0	0.0	2.1	27.0	0.0	0.0	0.0	130.0	0.0	3.1	0.0	31.0	0.0	2.2	0.5	0.0	0.2	0.0	0.2	0.6	5.3		0.2	5.0	207.0	16.0	5.2	20.8	0.5	1.3	37.0	0.1
15/05/13	9.0	9.7	0.0	0.0	5.0	1.5	0.0	2.5	32.0	0.0	0.0	0.0	136.0	0.0	4.2	0.0	7.1	0.0	2.2	0.1	0.0	0.1	0.0	0.1	0.4	5.4		0.2	5.0	156.0	17.0	4.8	20.6	0.3	1.3	63.0	0.2
7/08/13	11.0	36.0	0.1	0.0	7.0	1.0	0.0	3.5	40.0	0.0	0.0	0.0	150.0	0.0	2.1	0.1	28.0	0.0	2.5	0.5	0.0	0.1	0.0	0.1	0.6	5.5		0.5	5.0	60.0	21.0	4.5	19.8	0.5	1.0	77.0	0.2
13/11/13	28.0	26.0	0.1	0.0	17.0	1.0	0.0	8.7	59.0	0.0	0.0	0.0	289.0	0.0	1.6	0.1	23.0	0.0	6.3	0.8	0.0	0.1	0.0	0.1	0.6	5.7		0.2	5.0	148.0	37.0	10.0	20.5	0.5	0.6	71.0	0.1
12/02/14	40.0	26.0	0.1	0.0	24.0	1.0	0.0	9.8	70.0	0.0	0.0	0.0	328.0	0.0	1.2	0.1	26.0	0.0	6.5	1.0	0.0	0.1	0.0	0.1	0.7	5.9		0.2	5.0	77.0	43.0	13.0	21.0	0.6	0.7	187.0	0.3
14/05/14	30.0	41.0	0.7	0.0	18.0	8.1	0.0	5.6	54.0	0.0	0.0	0.0	282.0	0.1	1.9	0.1	50.0	0.1	4.5	1.1	0.0	0.2	0.0	0.2	1.8	5.7		0.4	5.0	19.0	34.0	11.0	20.1	1.7	1.6	68.0	0.2
13/08/14	50.0	31.0	0.1	0.0	30.0	1.0	0.0	13.0	77.0	0.0	0.0	0.0	375.0	0.0	1.3	0.1	20.0	0.0	7.8	0.6	0.0	0.1	0.0	0.1	0.6	6.3		0.3	5.0	149.0	53.0	13.0	20.4	0.5	0.5	159.0	0.1
11/11/14	28.0	26.0	0.0	0.0	17.0	2.1	0.0	6.7	60.0	0.0	0.0	0.0	262.0	0.0	3.1	0.0	18.0	0.0	5.5	0.4	0.0	0.1	0.0	0.1	0.8	6.1		0.2	5.0	78.0	37.0	10.0	21.3	0.8	1.0	67.0	0.1
10/02/15	9.0	2.2	0.0	0.0	6.0	1.0	0.0	2.1	28.0	0.0	0.0	0.0	122.0	0.0	2.6	0.0	0.8	0.0	1.8	0.0	0.0	0.2	0.0	0.2	0.5	6.4		0.1	5.0	88.0	16.0	6.4	21.4	0.3	2.5	36.0	0.0
12/05/15	12.0	2.4	0.0	0.0	7.0	2.7	0.0	2.4	27.0	0.0	0.0	0.0	130.0	0.0	5.7	0.0	1.2	0.0	2.4	0.1	0.0	0.2	0.0	0.2	0.4	5.6		0.1	5.0	165.0	18.0	4.9	21.4	0.2	1.6	30.0	0.0
12/08/15	13.0	0.5	0.0	0.0	13.0	2.1	0.0	3.6	32.0	0.0	0.0	0.0	149.0	0.0	2.3	0.0	0.3	0.0	3.1	0.1	0.0	0.0	0.0	0.0	0.2	5.6		0.0	5.0	116.0	19.0	4.5	18.0	0.1	0.8	67.0	0.0
11/11/15	13.0	14.3	0.0	0.0	13.0	1.5	0.0	4.2	40.0	0.0	0.0	0.0	177.0	0.0	3.2	0.0	10.6	0.0	4.0	0.2	0.0	0.2	0.0	0.2	0.8	5.4		0.2	5.0	123.0	23.0	5.0	20.5	0.6	0.8	74.0	0.1
9/02/16	20.0	6.6	0.0	0.0	20.0	1.0	0.0	5.1	53.0	0.0	0.0	0.0	238.0	0.0	1.0	0.0	3.8	0.0	4.9	0.1	0.0	0.1	0.0	0.1	0.5	5.5		0.3	5.0	192.0	29.5	7.3	21.1	0.4	0.6	97.0	0.0
10/05/16	21.0	5.7	0.0	0.0	21.0	1.0	0.0	3.5	40.0	0.0	0.0	0.0	180.0	0.0	1.5	0.0	3.0	0.0	3.4	0.1	0.0	0.1	0.0	0.1	0.3	5.4		0.2	5.0	184.0	22.5	5.8	21.5	0.2	1.5	71.0	0.1
10/08/16	12.0		0.0		12.0	1.0		3.1	36.0				165.6		5.3	0.1			3.5			0.0	0.0	0.0	0.2	5.2		0.0	5.0	292.0	21.2	6.1	19.8	0.1	1.1	80.6	
8/11/16	20.2		0.0		20.0	1.8		5.9	46.0				201.9		2.5	0.0			4.7			0.0	0.0	0.0	0.1	5.5		0.1	5.0	356.2	25.4	7.2	22.4	0.1	2.6	89.2	
8/02/17	34.1		0.0		34.0	1.5		8.3	58.0				287.5		1.6	0.1			5.9			0.0	0.0	0.0	0.4	5.6		0.1	5.0	356.5	33.7	9.6	22.2	0.4	1.6	113.3	
9/05/17	8.9	0.9	0.1	0.0	9.0	1.2	0.0	1.8	23.0	0.0	0.0	0.0	110.2	0.0	3.0	0.1	0.7	0.0	1.8	0.0	0.0	0.2	0.0	0.2	0.5	5.4		0.1	5.0	406.3	15.1	6.1	21.0	0.3	1.8	40.5	0.1
9/08/17	16.4		0.0		16.0	1.0		2.5	35.0				135.1		5.8	0.0			2.6			0.1	0.0	0.1	0.2	5.4		0.0	5.0	407.3	17.4	4.8	20.3	0.1	1.8	28.7	
8/11/17	35.6		0.8		36.0	5.1		7.6	58.0				289.1		1.0	0.1			5.7			0.0	0.0	0.0	1.3	5.7		0.3	5.0	104.7	34.6	8.1	20.0	1.3	2.7	63.9	
2017 Min	8.9	0.9	0.0	0.0	9.0	1.0	0.0	1.8	23.0	0.0	0.0	0.0	110.2	0.0	1.0	0.0	0.7	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.2	5.4		0.0	5.0	104.7	15.1	4.8	20.0	0.1	1.6	28.7	0.1
2017 Max	35.6	0.9	0.8	0.0	36.0	5.1	0.0	8.3	58.0	0.0	0.0	0.0	289.1	0.0	5.8	0.1	0.7	0.0	5.9	0.0	0.0	0.2	0.0	0.2	1.3	5.7		0.3	5.0	407.3	34.6	9.6	22.2	1.3	2.7	113.3	0.1
2017 Mean	23.7	0.9	0.2	0.0	23.8	2.2	0.0	5.1	43.5	0.0	0.0	0.0	205.5	0.0	2.9	0.1	0.7	0.0	4.0	0.0	0.0	0.1	0.0	0.1	0.6	5.5		0.1	5.0	318.7	25.2	7.2	20.9	0.5	2.0	61.6	0.1

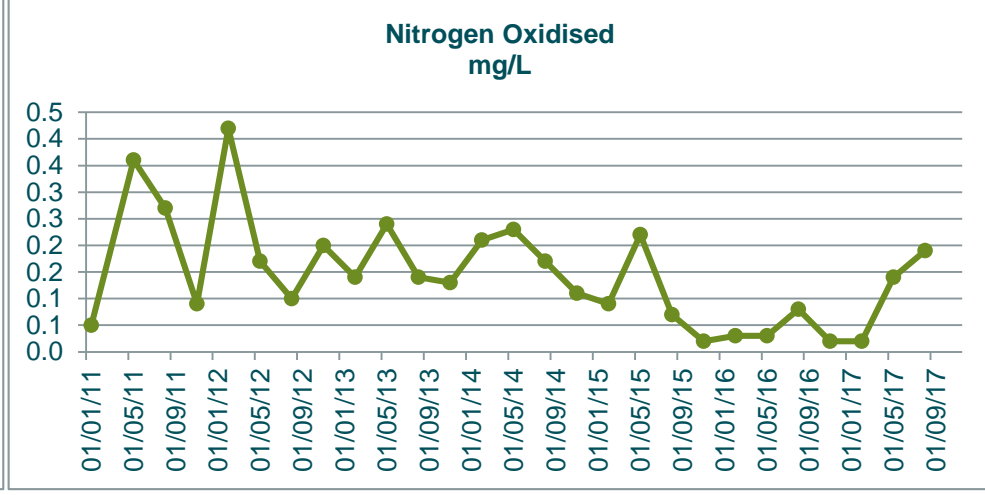
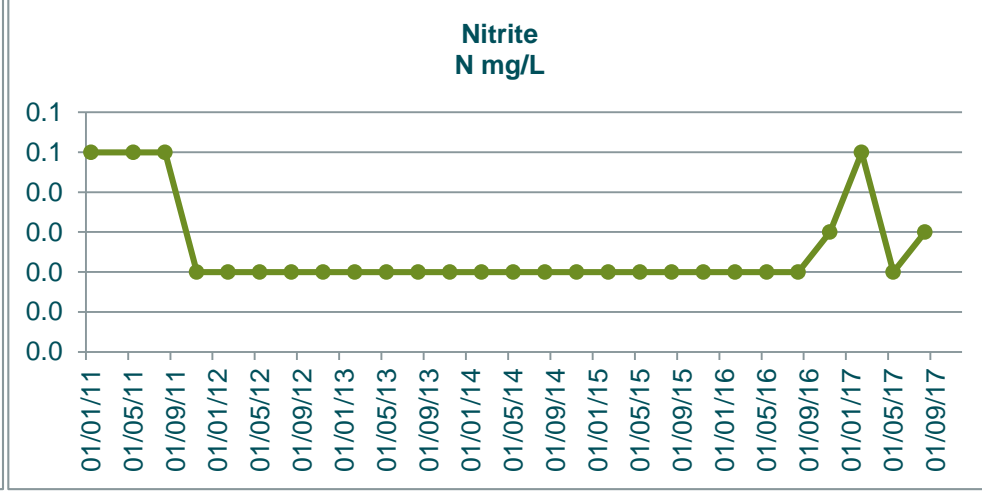
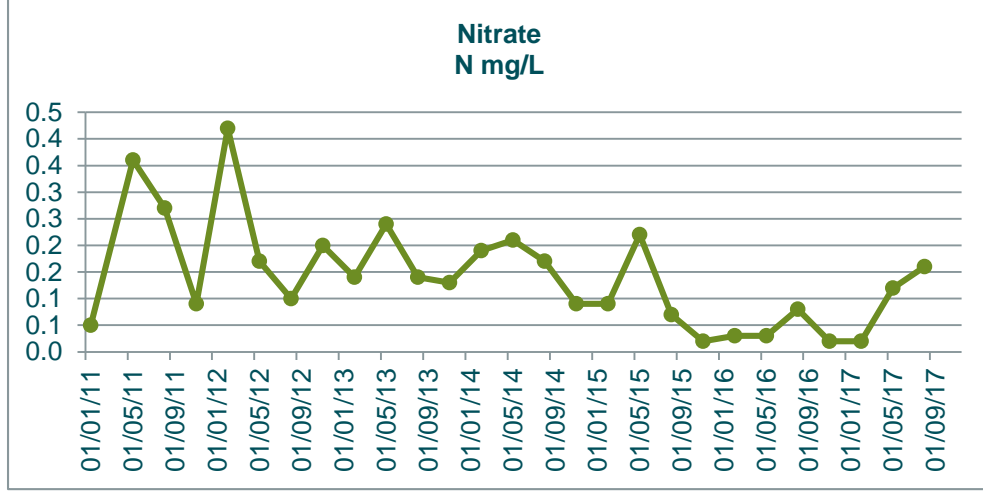
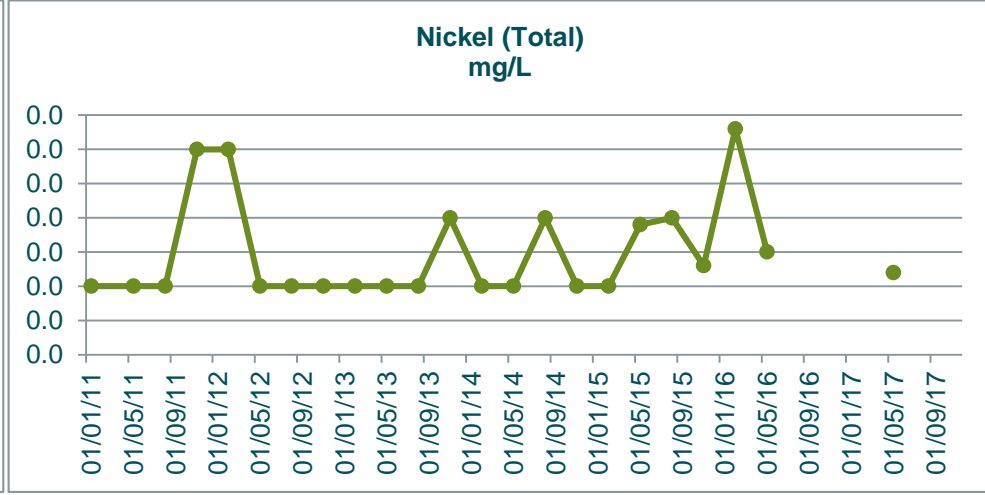
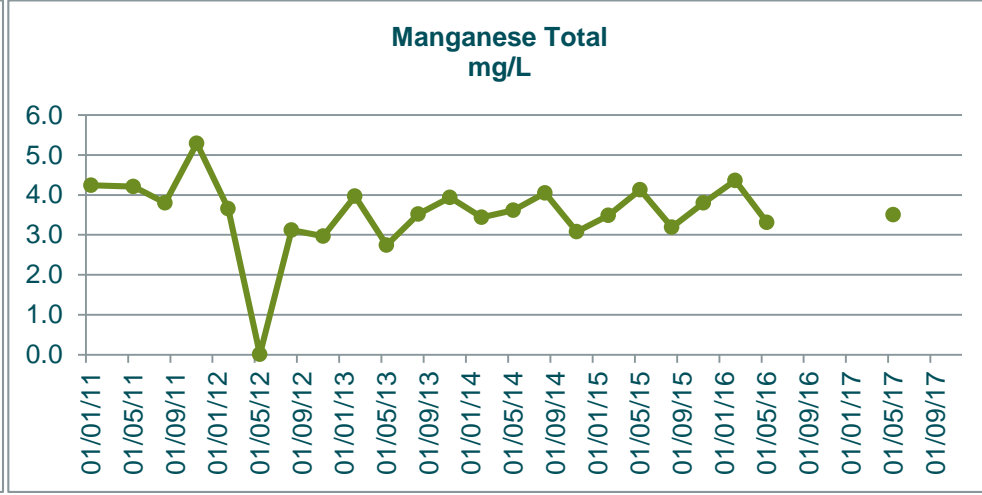
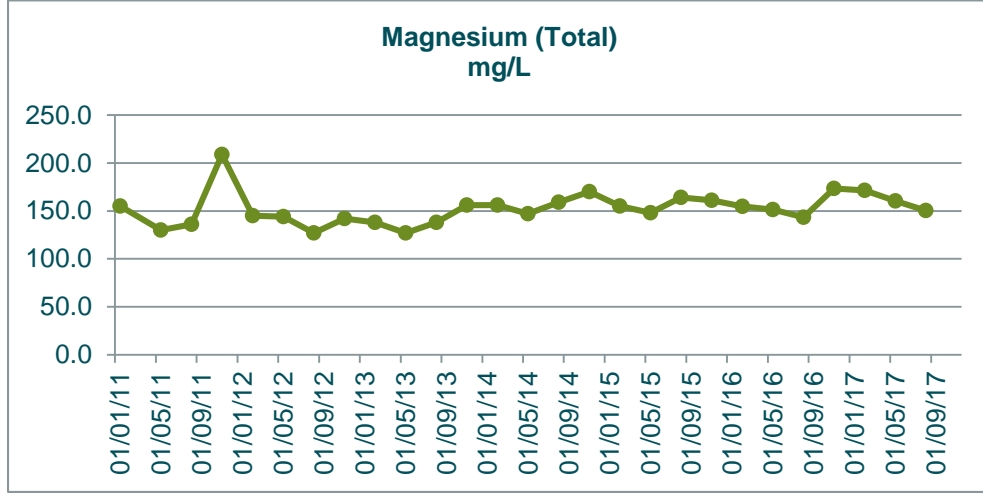
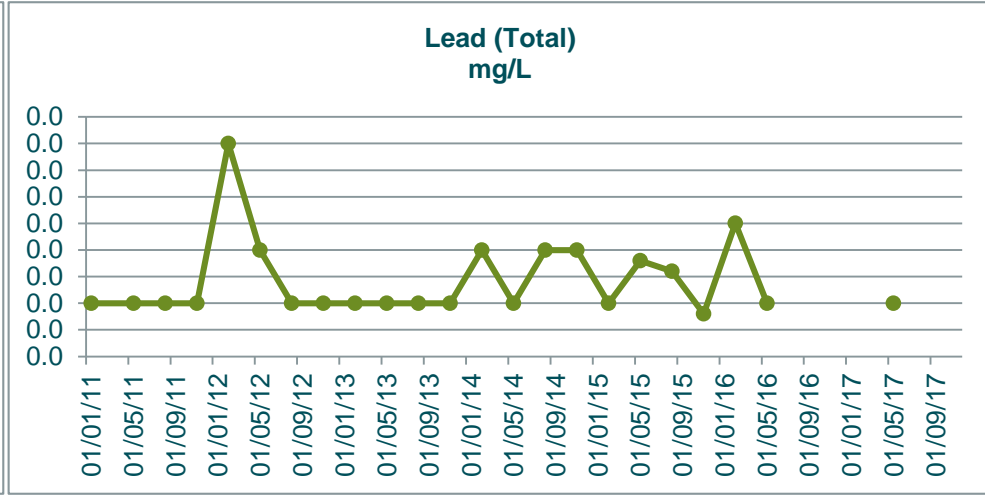
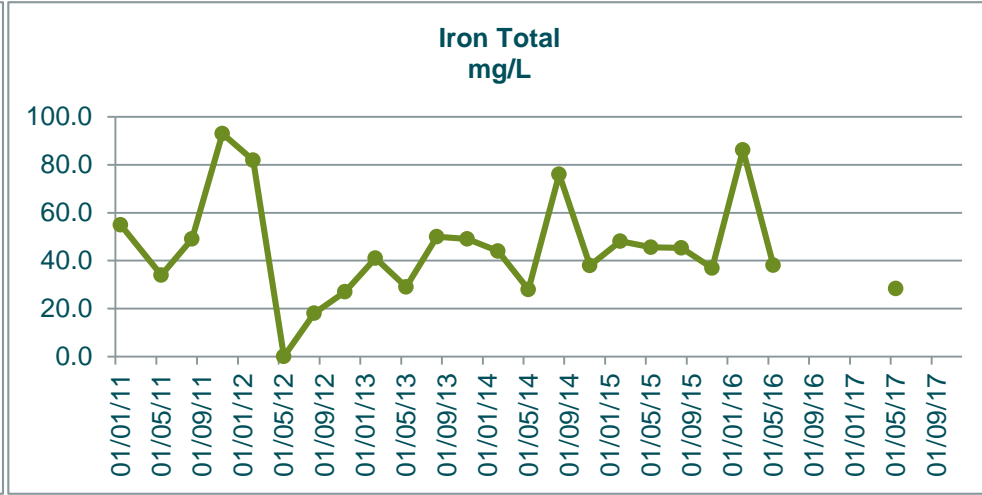
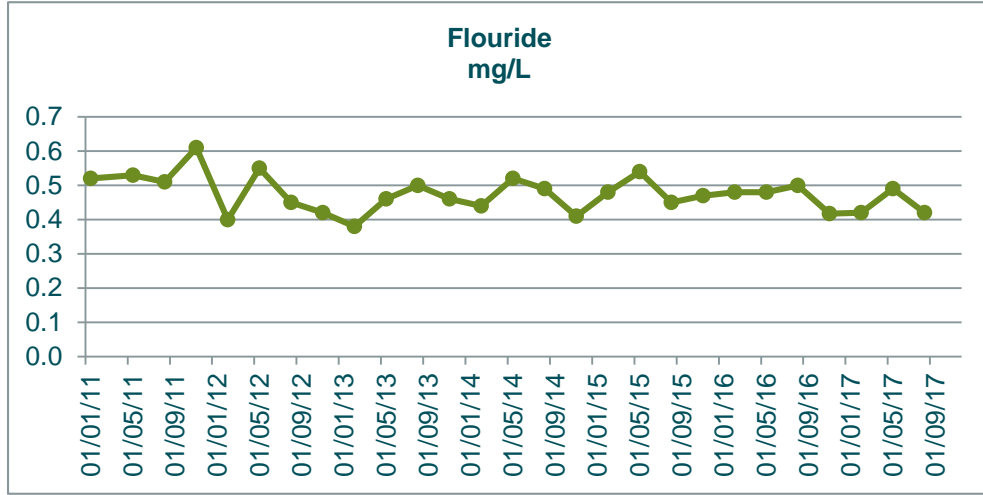
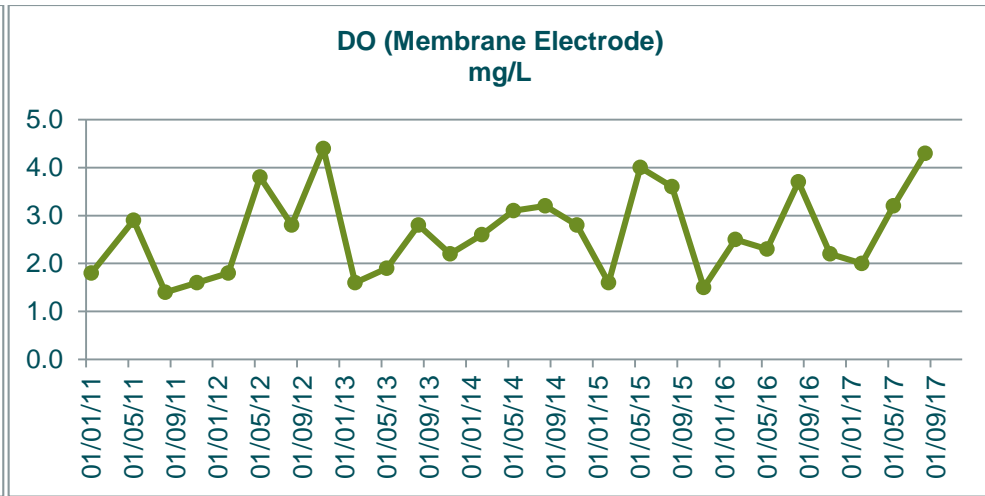
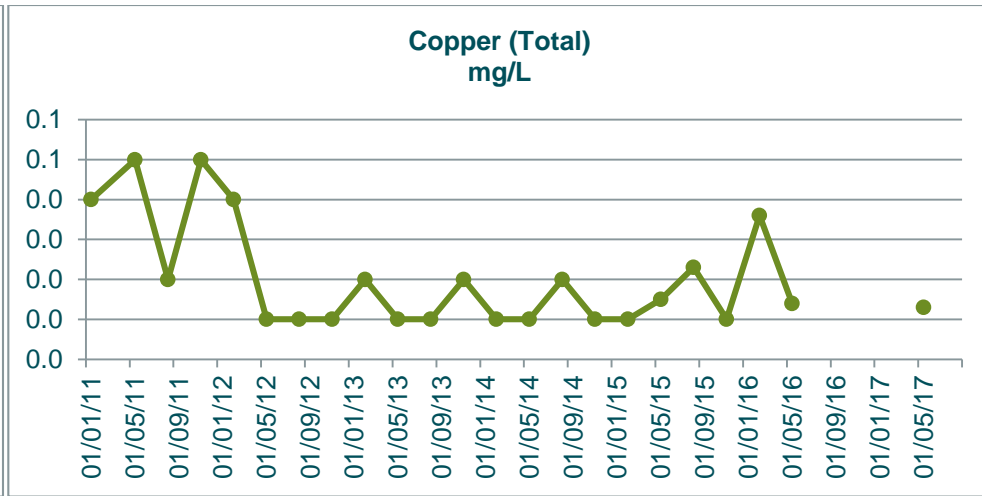
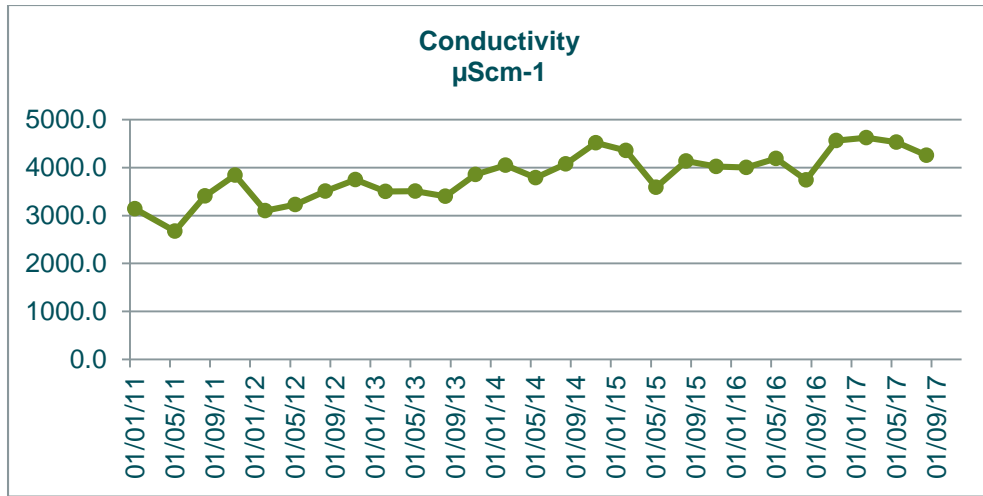


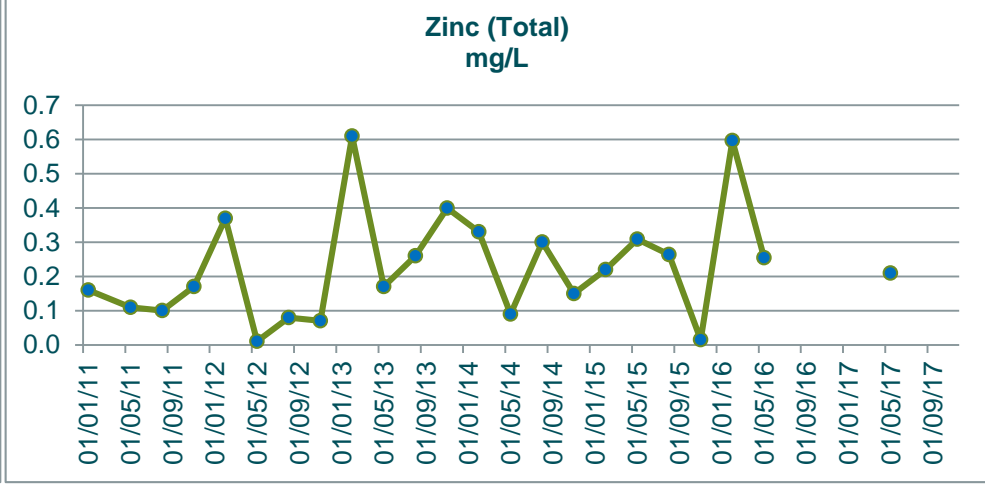
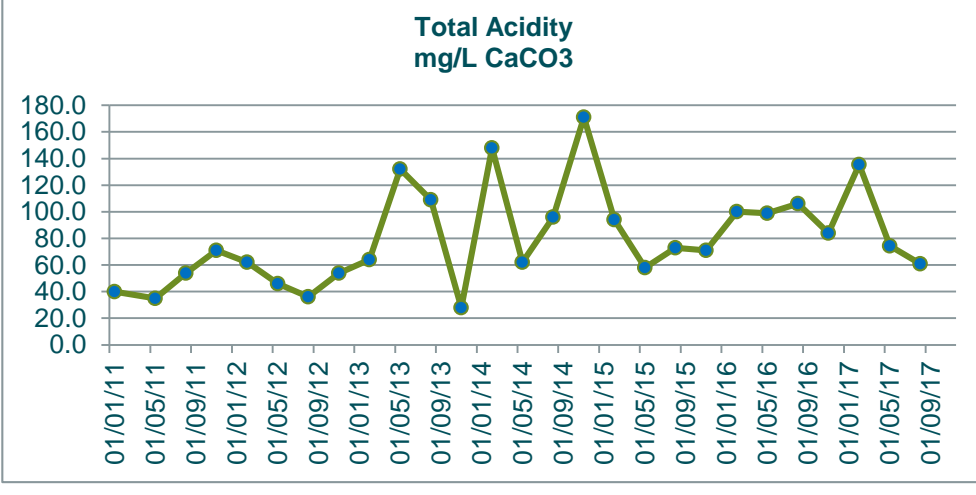
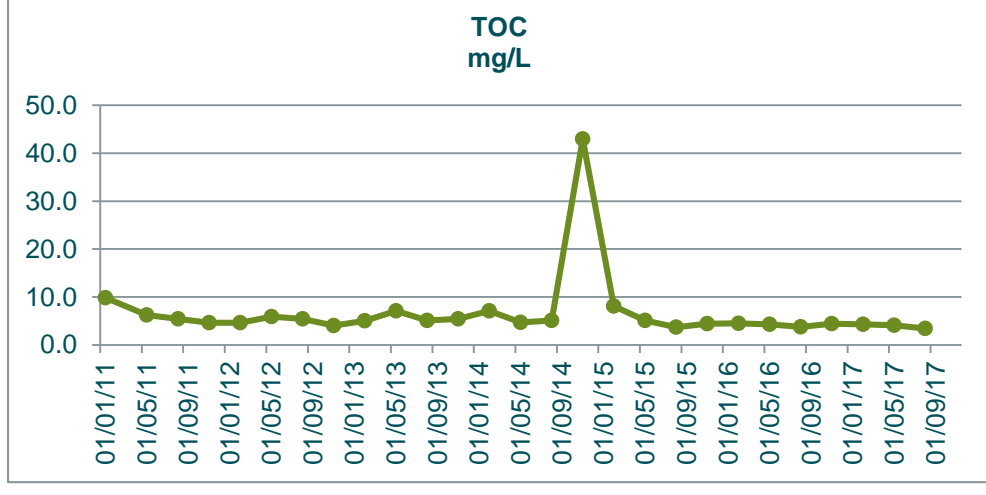
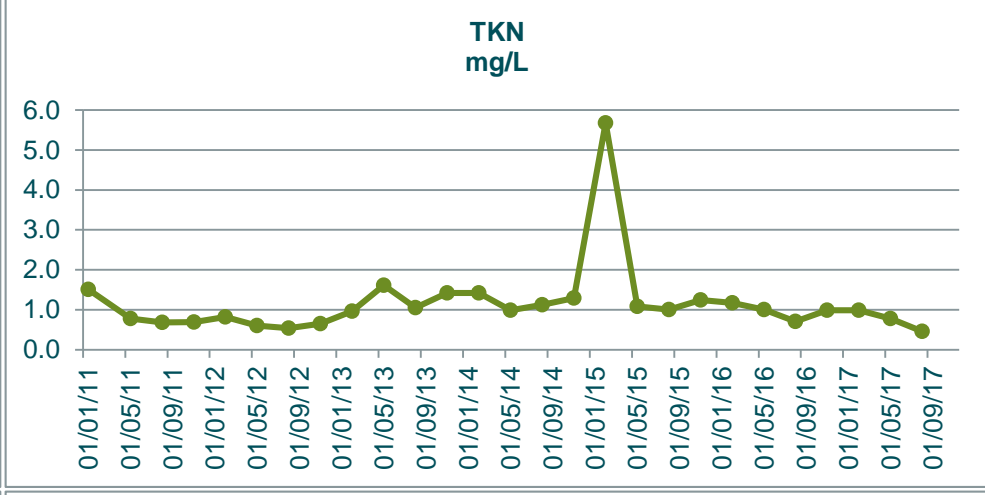
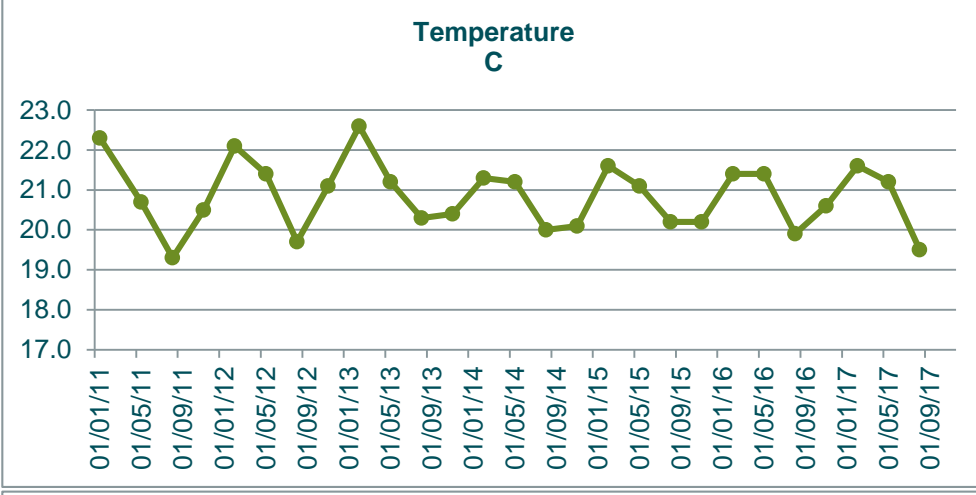
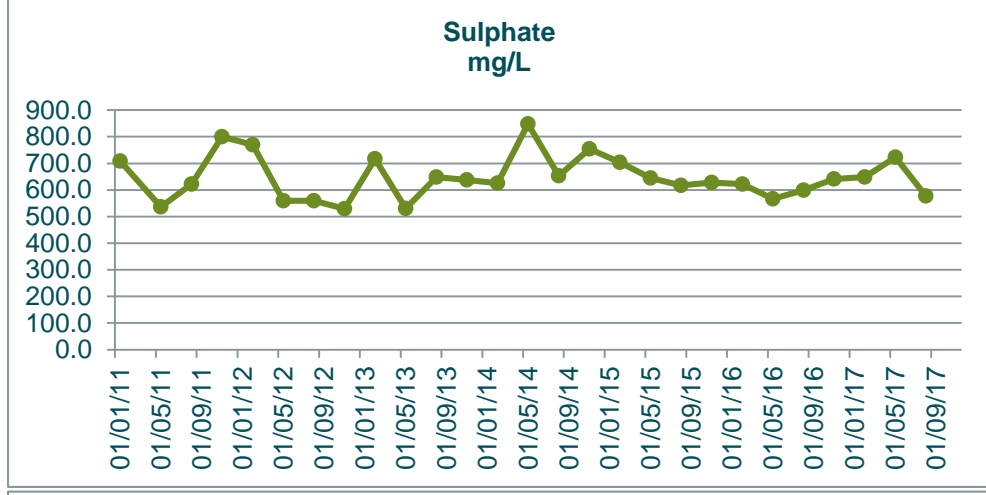
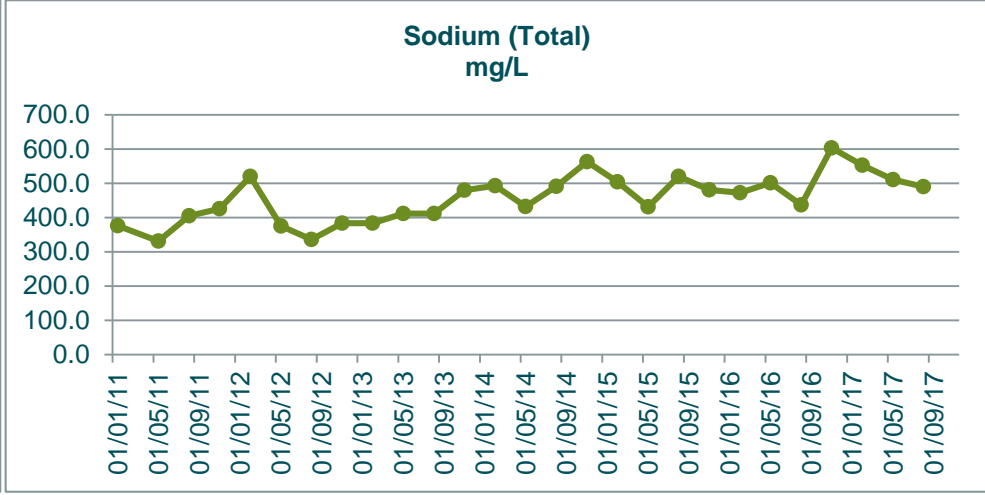
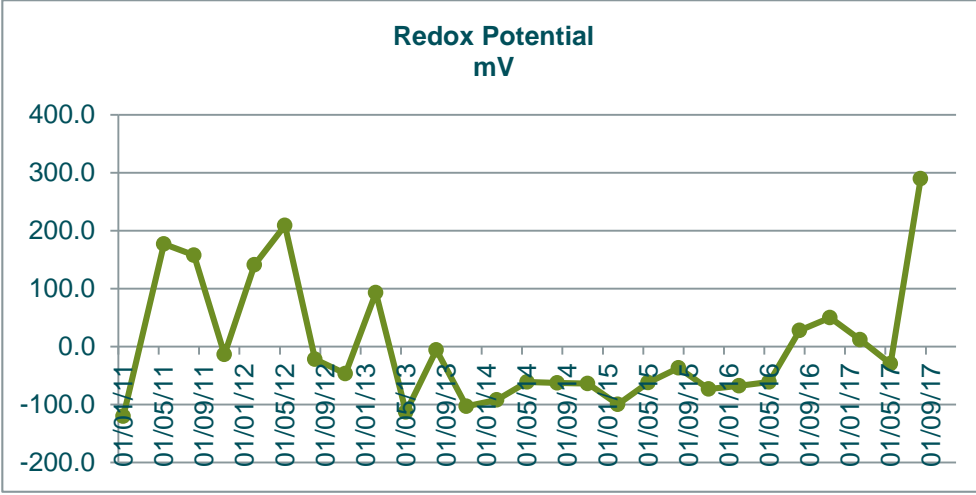
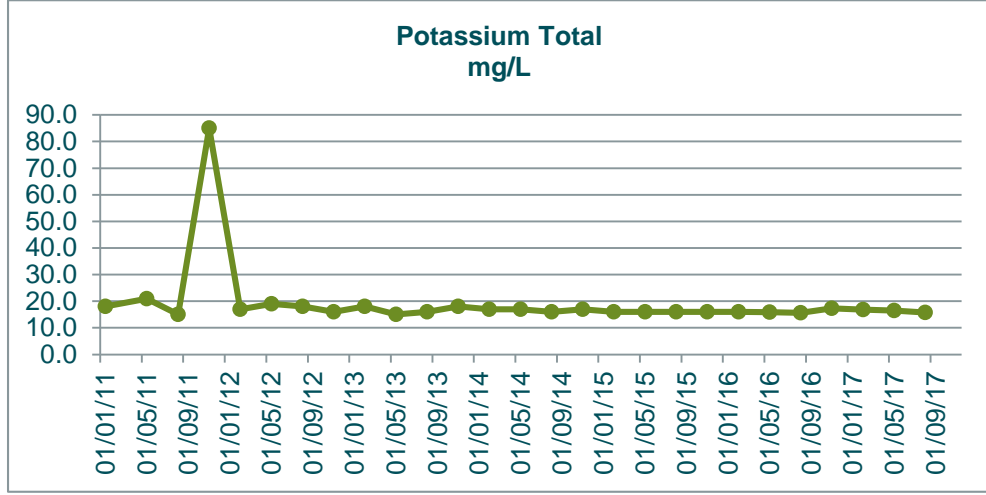
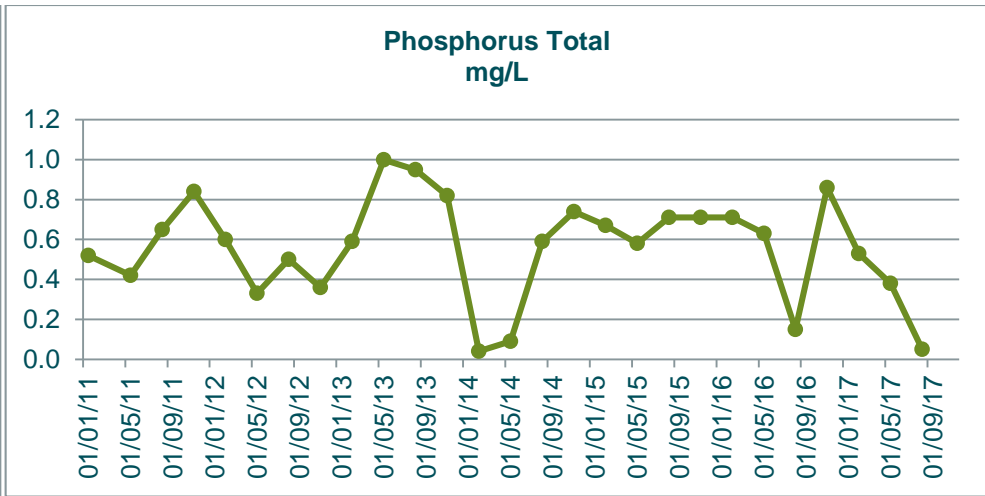
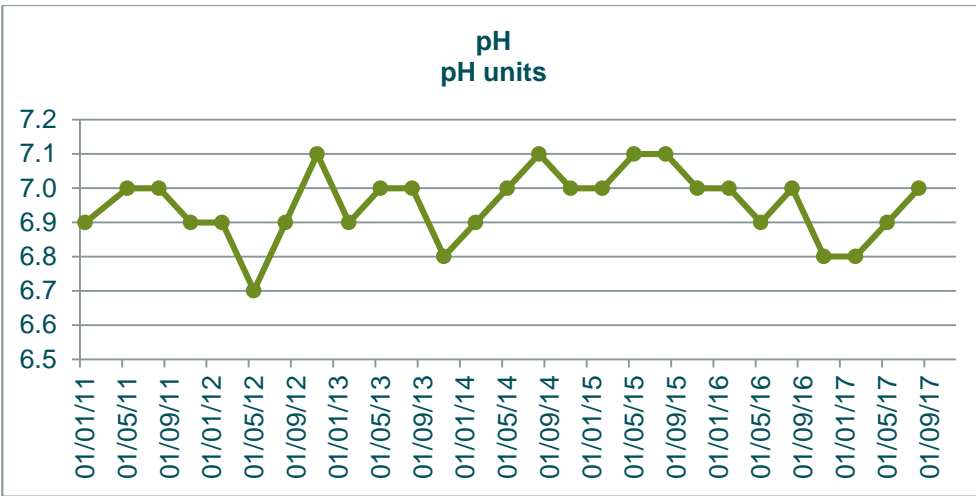
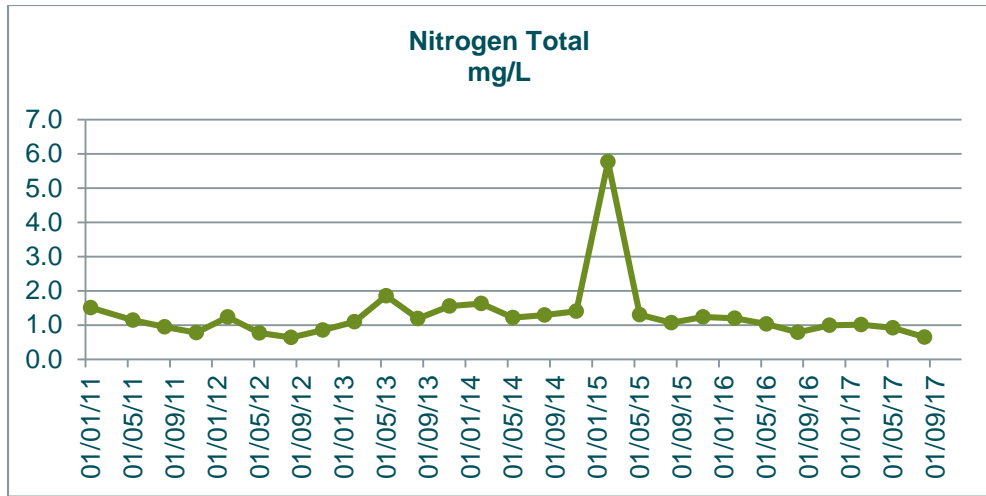




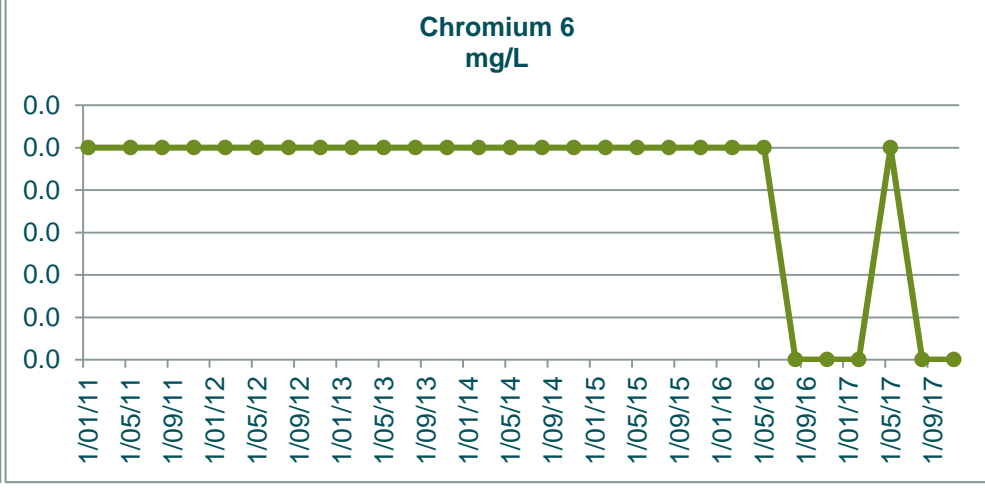
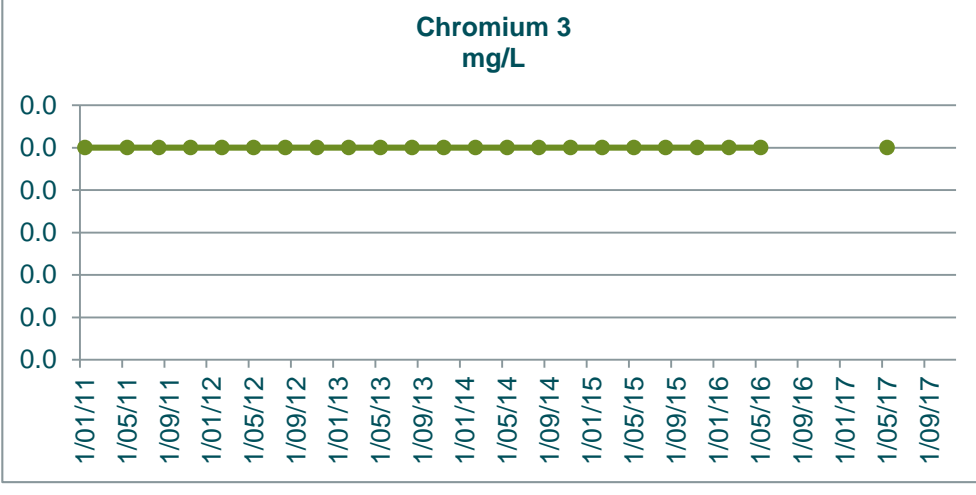
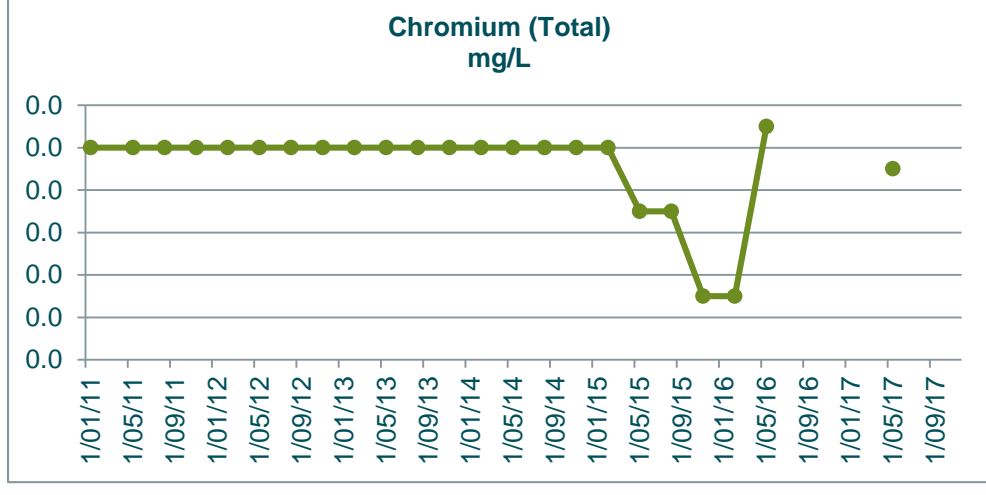
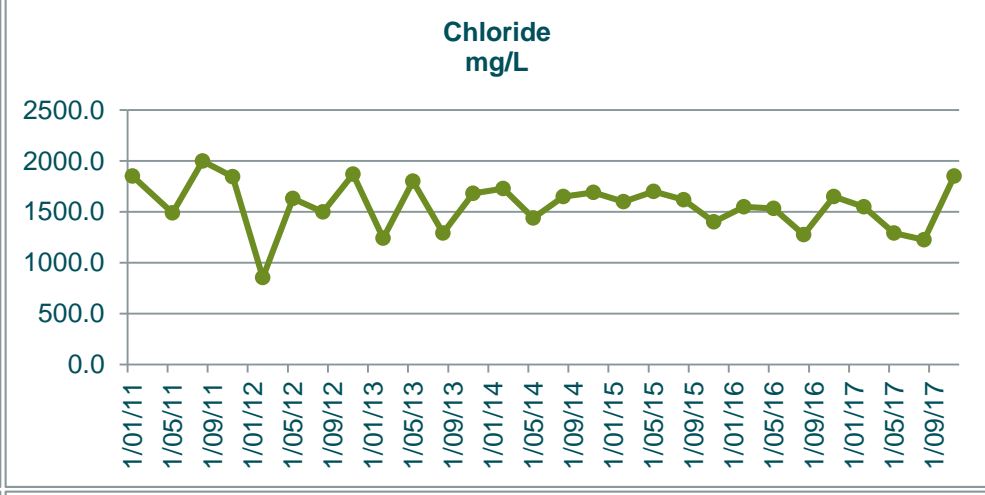
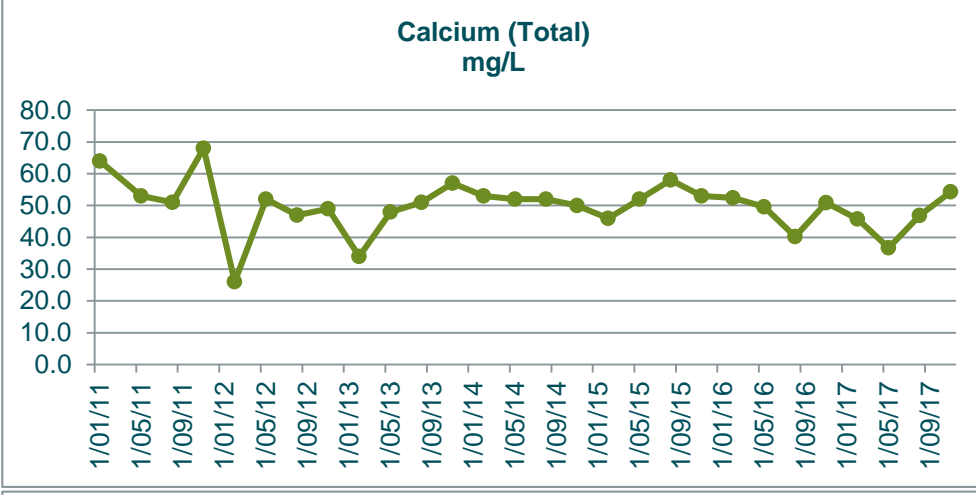
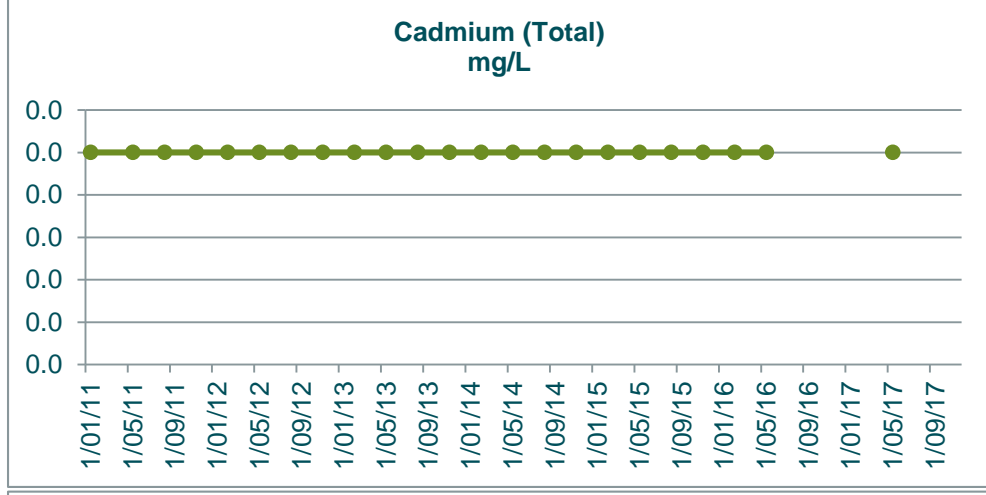
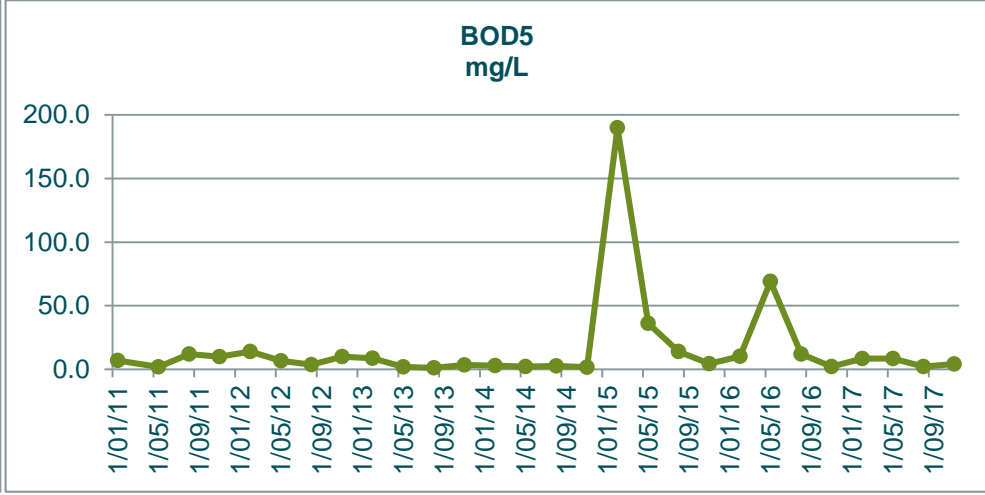
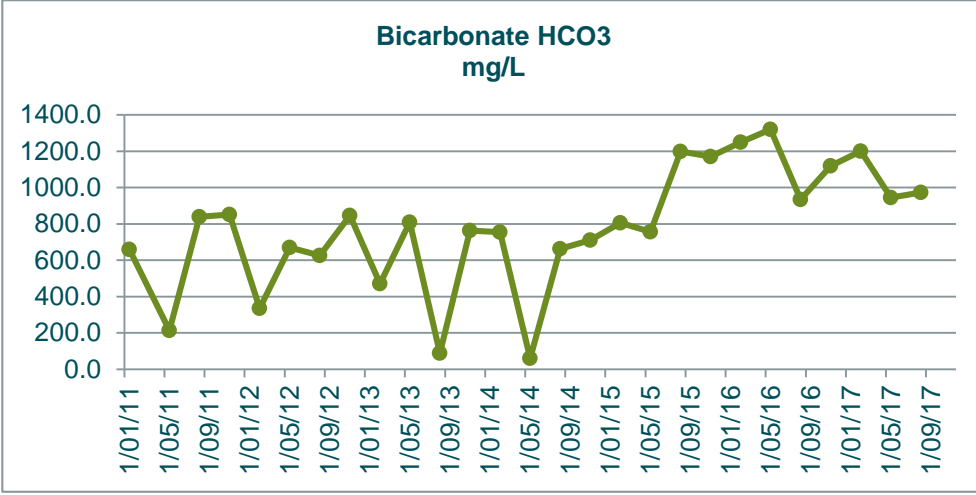
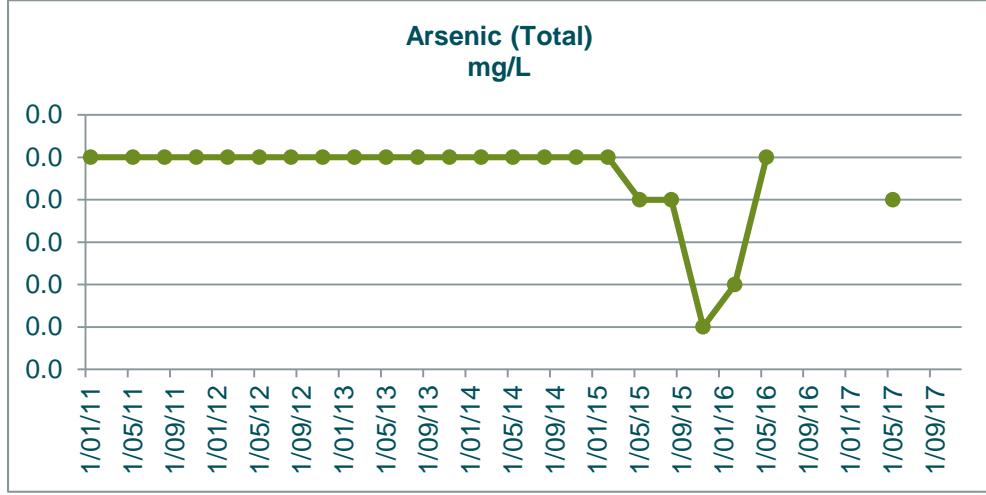
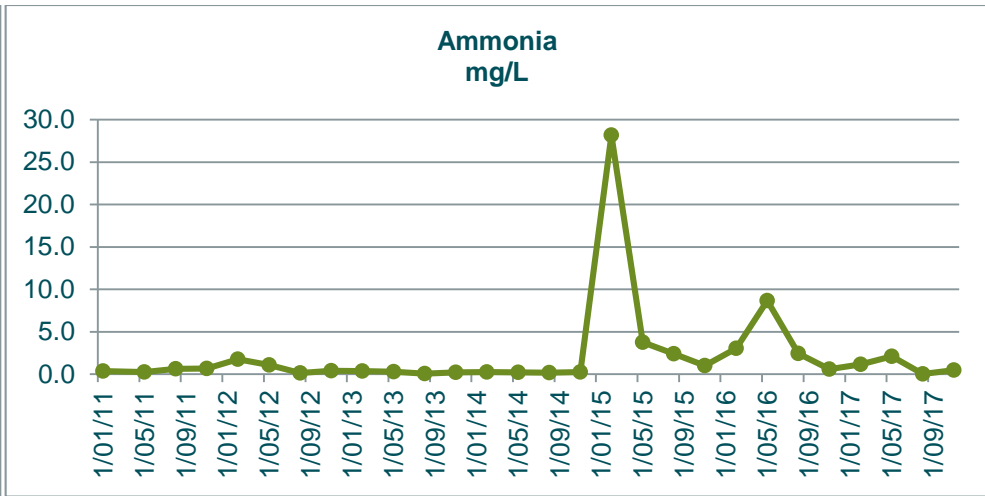
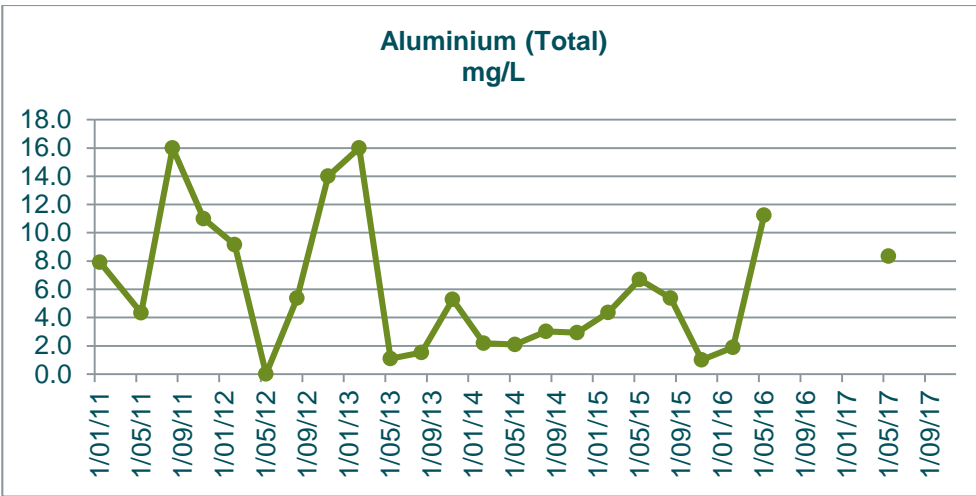
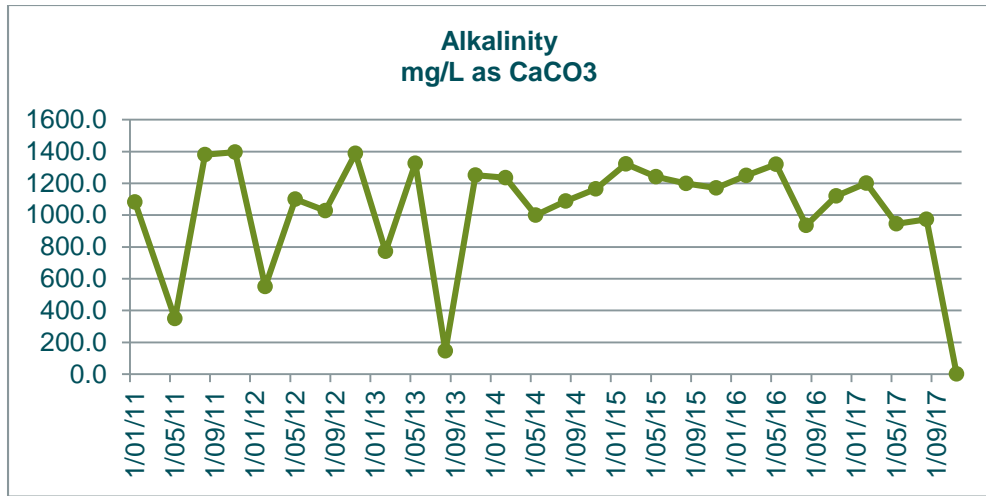
GW2	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Fluoride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L		
31/01/11	400.0	32.0	0.7	0.0	244.0	8.0	0.0	156.0	560.0	0.0	0.0	0.0	3141.0	0.0	1.8	0.5	55.0	0.0	155.0	4.2	0.0	0.1	0.1	0.1	1.5	6.9		0.5	18.0	-120.0	376.0	709.0	22.3	1.5	9.8	40.0	0.2		
10/05/11	360.0	15.0	0.1	0.0	220.0	10.0	0.0	125.0	437.0	0.0	0.0	0.0	2671.0	0.1	2.9	0.5	34.0	0.0	130.0	4.2	0.0	0.4	0.1	0.4	1.1	7.0		0.4	21.0	177.0	331.0	536.0	20.7	0.8	6.2	35.0	0.1		
9/08/11	494.0	33.0	0.2	0.0	300.0	8.4	0.0	144.0	650.0	0.0	0.0	0.0	3410.0	0.0	1.4	0.5	49.0	0.0	136.0	3.8	0.0	0.3	0.1	0.3	1.0	7.0		0.7	15.0	158.0	405.0	622.0	19.3	0.7	5.4	54.0	0.1		
8/11/11	480.0	65.0	0.2	0.0	293.0	8.1	0.0	198.0	705.0	0.1	0.1	0.0	3842.0	0.1	1.6	0.6	93.0	0.0	209.0	5.3	0.0	0.1	0.0	0.1	0.8	6.9		0.8	85.0	-13.8	426.0	800.0	20.5	0.7	4.6	71.0	0.2		
6/02/12	426.0	54.0	0.2	0.1	260.0	11.0	0.0	160.0	715.0	0.0	0.0	0.0	3100.0	0.0	1.8	0.4	82.0	0.0	145.0	3.7	0.0	0.4	0.0	0.4	1.2	6.9		0.6	17.0	141.0	520.0	770.0	22.1	0.8	4.6	62.0	0.4		
8/05/12	454.0	0.0	0.2	0.0	277.0	1.8	0.0	139.0	460.0	0.0	0.0	0.0	3225.0	0.0	3.8	0.6	0.0	0.0	144.0	0.0	0.0	0.2	0.0	0.2	0.8	6.7		0.3	19.0	209.0	375.0	560.0	21.4	0.6	5.9	46.0	0.0		
6/08/12	455.0	9.7	0.0	0.0	278.0	1.2	0.0	135.0	530.0	0.0	0.0	0.0	3510.0	0.0	2.8	0.5	18.0	0.0	127.0	3.1	0.0	0.1	0.0	0.1	0.6	6.9		0.5	18.0	-22.0	336.0	559.0	19.7	0.5	5.4	36.0	0.1		
13/11/12	470.0	19.0	0.3	0.0	287.0	2.7	0.0	140.0	600.0	0.0	0.0	0.0	3750.0	0.0	4.4	0.4	27.0	0.0	142.0	3.0	0.0	0.2	0.0	0.2	0.9	7.1		0.4	16.0	-47.0	384.0	529.0	21.1	0.7	4.0	54.0	0.1		
13/02/13	474.0	22.0	0.2	0.0	289.0	1.0	0.0	144.0	550.0	0.0	0.0	0.0	3500.0	0.0	1.6	0.4	41.0	0.0	138.0	4.0	0.0	0.1	0.0	0.1	1.1	6.9		0.6	18.0	93.0	384.0	717.0	22.6	1.0	5.0	64.0	0.6		
14/05/13	484.0	23.0	1.0	0.0	295.0	7.2	0.0	144.0	620.0	0.0	0.0	0.0	3510.0	0.0	1.9	0.5	29.0	0.0	127.0	2.7	0.0	0.2	0.0	0.2	1.9	7.0		1.0	15.0	-113.0	412.0	531.0	21.2	1.6	7.1	132.0	0.2		
6/08/13	514.0	35.0	0.2	0.0	314.0	8.7	0.0	150.0	580.0	0.0	0.0	0.0	3400.0	0.0	2.8	0.5	50.0	0.0	138.0	3.5	0.0	0.1	0.0	0.1	1.2	7.0		1.0	16.0	-6.0	412.0	648.0	20.3	1.1	5.1	109.0	0.3		
12/11/13	535.0	44.0	0.8	0.0	326.0	9.9	0.0	168.0	655.0	0.0	0.0	0.0	3858.0	0.0	2.2	0.5	49.0	0.0	156.0	3.9	0.0	0.1	0.0	0.1	1.6	6.8		0.8	18.0	-103.0	480.0	638.0	20.4	1.4	5.4	28.0	0.4		
11/02/14	537.0	32.0	0.6	0.0	328.0	8.1	0.0	170.0	740.0	0.0	0.0	0.0	4052.0	0.0	2.6	0.4	44.0	0.0	156.0	3.4	0.0	0.2	0.0	0.2	1.6	6.9		0.0	17.0	-92.0	493.0	625.0	21.3	1.4	7.1	148.0	0.3		
13/05/14	420.0	20.0	0.3	0.0	256.0	2.1	0.0	158.0	635.0	0.0	0.0	0.0	3790.0	0.0	3.1	0.5	28.0	0.0	147.0	3.6	0.0	0.2	0.0	0.2	1.2	7.0		0.1	17.0	-61.0	432.0	848.0	21.2	1.0	4.7	62.0	0.1		
12/08/14	461.0	44.0	0.3	0.0	281.0	4.8	0.0	173.0	720.0	0.0	0.0	0.0	4080.0	0.0	3.2	0.5	76.0	0.0	159.0	4.1	0.0	0.2	0.0	0.2	1.3	7.1		0.6	16.0	-63.0	491.0	653.0	20.0	1.1	5.1	96.0	0.3		
10/11/14	495.0	26.0	0.3	0.0	302.0	3.6	0.0	180.0	890.0	0.0	0.0	0.0	4520.0	0.0	2.8	0.4	38.0	0.0	170.0	3.1	0.0	0.1	0.0	0.1	1.4	7.0		0.7	17.0	-64.0	563.0	754.0	20.1	1.3	43.0	171.0	0.2		
9/02/15	503.0	35.1	3.2	0.0	307.0	21.0	0.0	159.0	820.0	0.0	0.0	0.0	4360.0	0.0	1.6	0.5	48.1	0.0	155.0	3.5	0.0	0.1	0.0	0.1	5.8	7.0		0.7	16.0	-100.0	504.0	704.0	21.6	5.7	8.1	94.0	0.2		
11/05/15	443.0	28.8	0.2	0.0	270.0	4.2	0.0	156.0	610.0	0.0	0.0	0.0	3590.0	0.0	4.0	0.5	45.6	0.0	148.0	4.1	0.0	0.2	0.0	0.2	1.3	7.1		0.6	16.0	-62.0	431.0	645.0	21.1	1.1	5.1	58.0	0.3		
11/08/15	481.0	31.4	0.2	0.0	481.0	10.0	0.0	178.0	780.0	0.0	0.0	0.0	4140.0	0.0	3.6	0.5	45.3	0.0	164.0	3.2	0.0	0.1	0.0	0.1	1.1	7.1		0.7	16.0	-37.0	520.0	617.0	20.2	1.0	3.7	73.0	0.3		
10/11/15	487.0	19.1	0.4	0.0	487.0	5.7	0.0	173.0	770.0	0.0	0.0	0.0	4020.0	0.0	1.5	0.5	37.0	0.0	161.0	3.8	0.0	0.0	0.0	0.0	1.2	7.0		0.7	16.0	-73.0	481.0	628.0	20.2	1.2	4.4	71.0	0.0		
8/02/16	500.0	49.1	0.3	0.0	500.0	6.0	0.0	167.4	750.0	0.0	0.1	0.0	4000.0	0.0	2.5	0.5	86.2	0.0	154.8	4.4	0.0	0.0	0.0	0.0	1.2	7.0		0.7	16.0	-68.0	472.9	621.5	21.4	1.2	4.5	100.0	0.6		
9/05/16	480.0	21.5	0.3	0.0	480.0	4.8	0.0	168.2	805.0	0.0	0.0	0.0	4190.0	0.0	2.3	0.5	38.2	0.0	151.5	3.3	0.0	0.0	0.0	0.0	1.0	6.9		0.6	15.9	-61.0	501.7	566.5	21.4	1.0	4.3	99.0	0.3		
9/08/16	464.0		0.0		464.0	2.1		154.7	650.0				3743.6		3.7	0.5			143.3			0.1	0.0	0.1	0.8	7.0		0.2	15.7	28.0	436.5	598.8	19.9	0.7	3.8	106.1			
7/11/16	507.0		0.2		507.0	4.2		191.6	965.0				4565.1		2.2	0.4			173.3			0.0	0.0	0.0	1.0	6.8		0.9	17.3	50.0	603.6	641.8	20.6	1.0	4.4	83.9			
7/02/17	519.0		0.3		519.0	3.3		183.6	930.0				4624.0		2.0	0.4			171.4			0.0	0.1	0.0	1.0	6.8		0.5	16.8	11.9	553.0	648.1	21.6	1.0	4.3	135.5			
8/05/17	474.0	19.5	0.2	0.0	474.0	1.8	0.0	174.2	930.0	0.0	0.0	0.0	4531.5	0.0	3.2	0.5	28.3	0.0	160.4	3.5	0.0	0.1	0.0	0.1	0.9	6.9		0.4	16.5	-29.7	510.6	723.3	21.2	0.8	4.1	74.4	0.2		
8/08/17	456.4		0.0		456.0	2.1		169.1	1025.0				4255.2		4.3	0.4			150.4			0.2	0.0	0.2	0.7	7.0		0.1	15.8	289.7	490.6	577.9	19.5	0.5	3.4	60.8			
7/11/17														0.0																									
2017 Min	456.4	19.5	0.0	0.0	456.0	1.8	0.0	169.1	930.0	0.0	0.0	0.0	4255.2	0.0	2.0	0.4	28.3	0.0	150.4	3.5	0.0	0.0	0.0	0.0	0.7	6.8		0.1	15.8	-29.7	490.6	577.9	19.5	0.5	3.4	60.8	0.2		
2017 Max	519.0	19.5	0.3	0.0	519.0	3.3	0.0	183.6	1025.0	0.0	0.0	0.0	4624.0	0.0	4.3	0.5	28.3	0.0	171.4	3.5	0.0	0.2	0.1	0.2	1.0	7.0		0.5	16.8	289.7	553.0	723.3	21.6	1.0	4.3	135.5	0.2		
2017 Mean	483.1	19.5	0.2	0.0	483.0	2.4	0.0	175.7	961.7	0.0	0.0	0.0	4470.2	0.0	3.2	0.4	28.3	0.0	160.7	3.5	0.0	0.1	0.0	0.1	0.9	6.9		0.3	16.4	90.6	518.1	649.7	20.8	0.7	3.9	90.2	0.2		

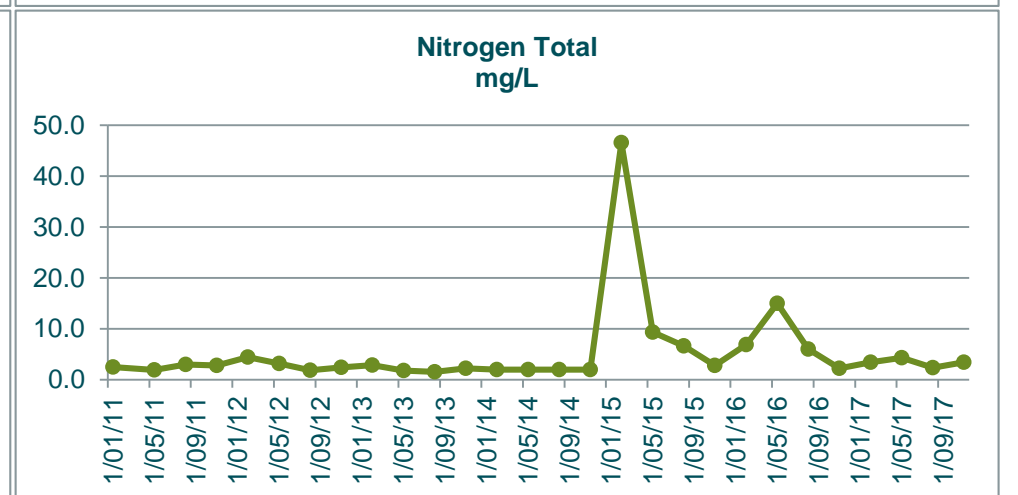
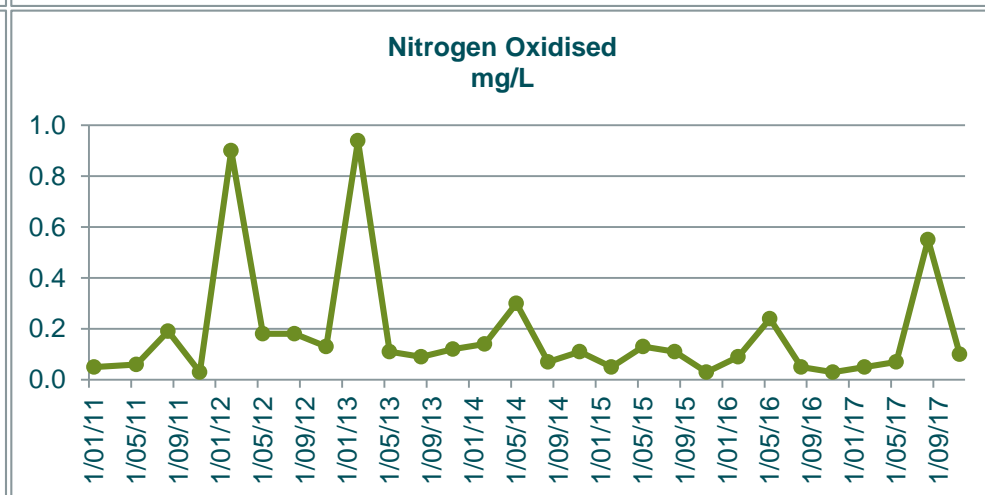
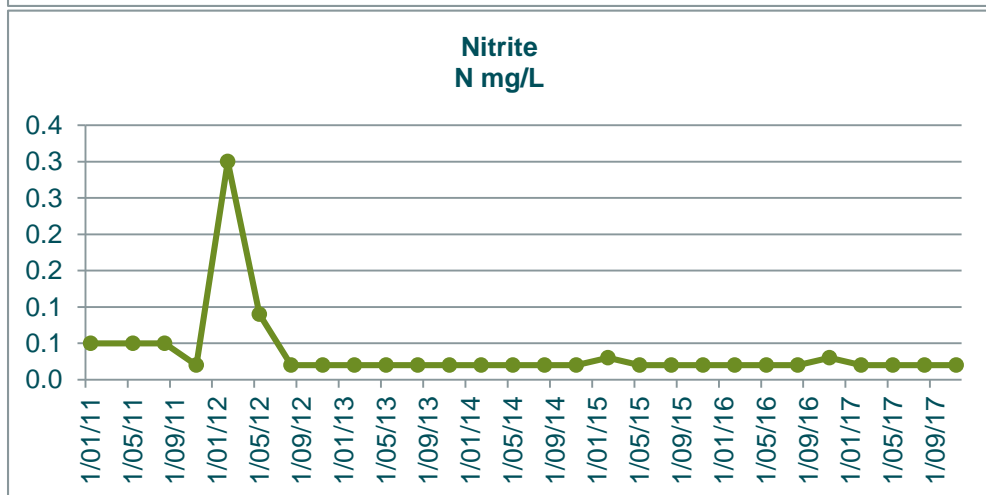
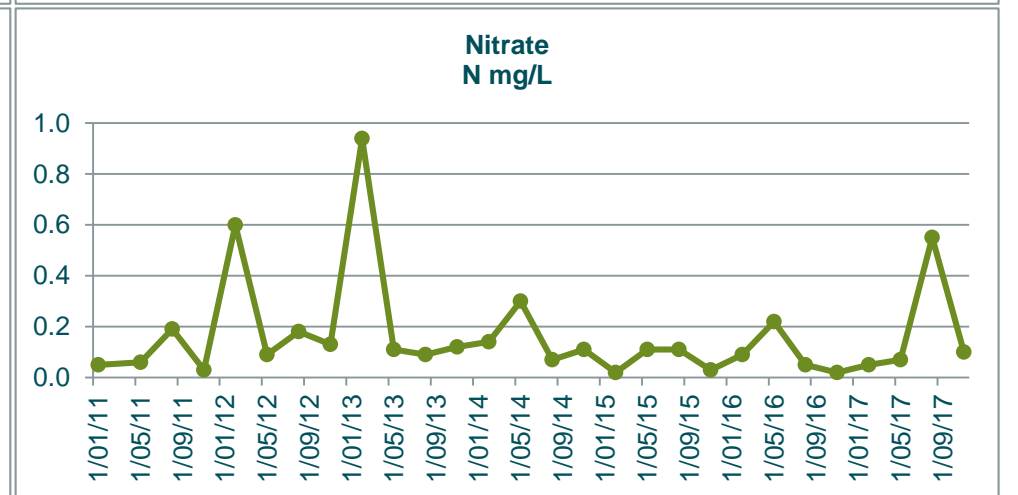
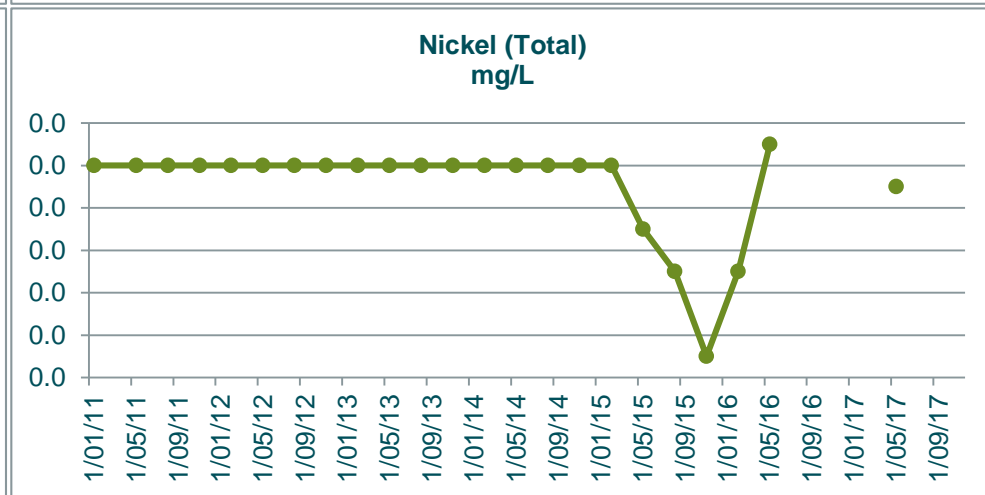
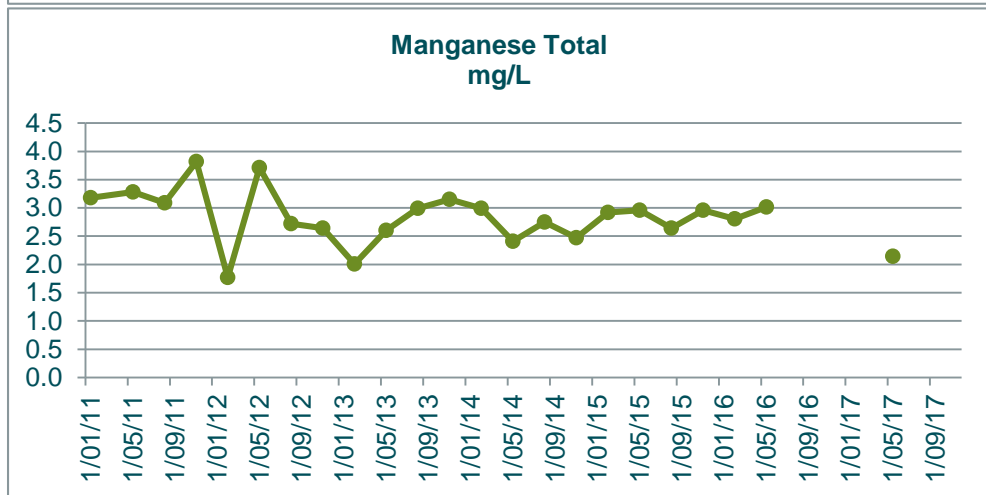
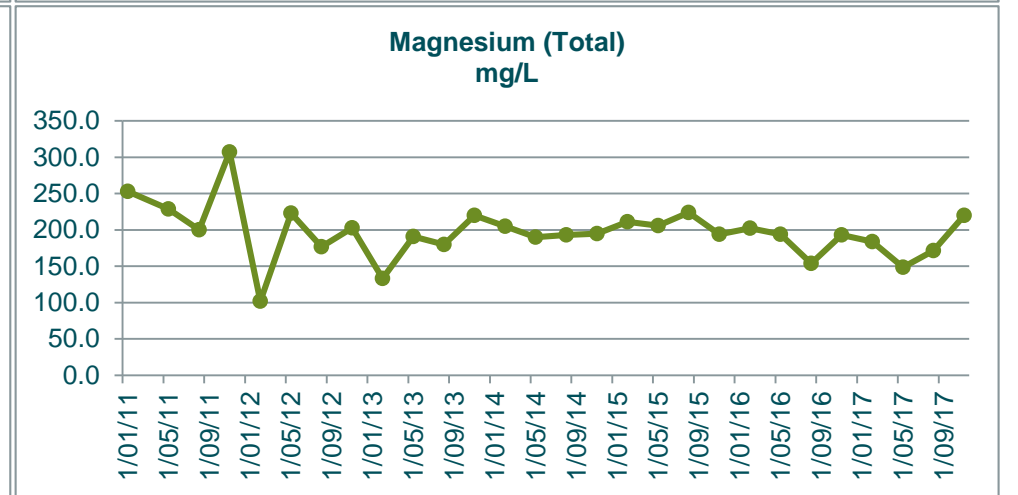
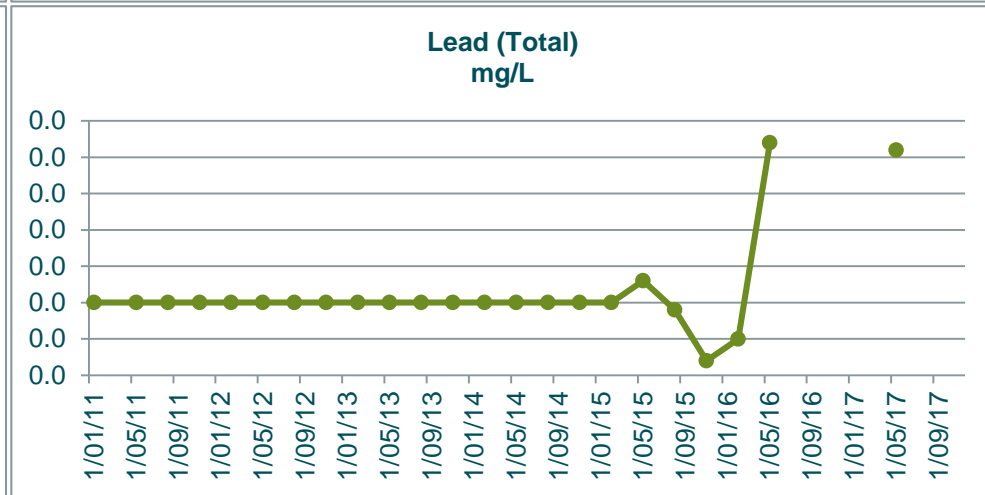
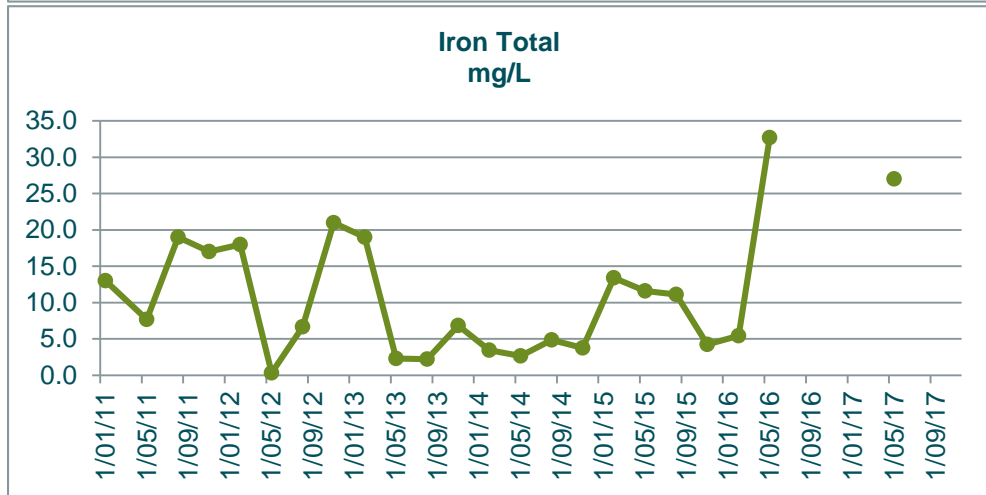
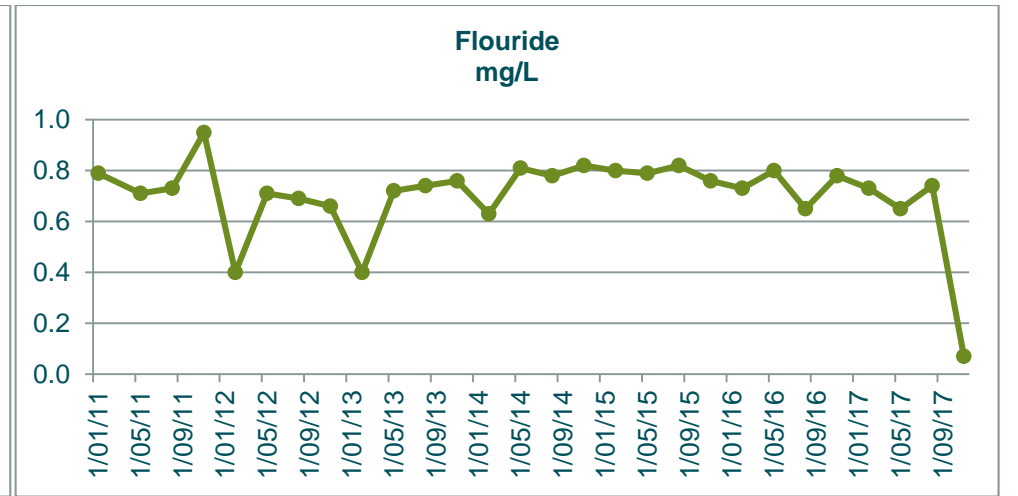
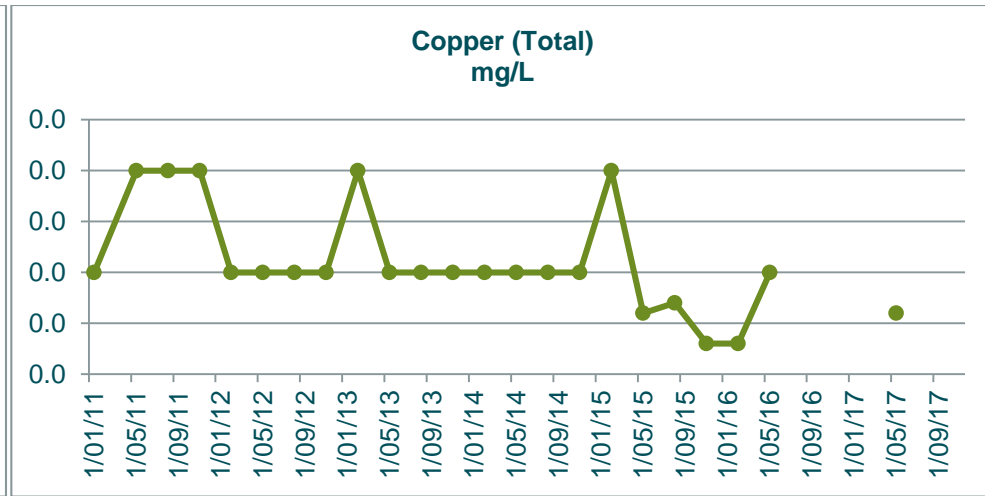
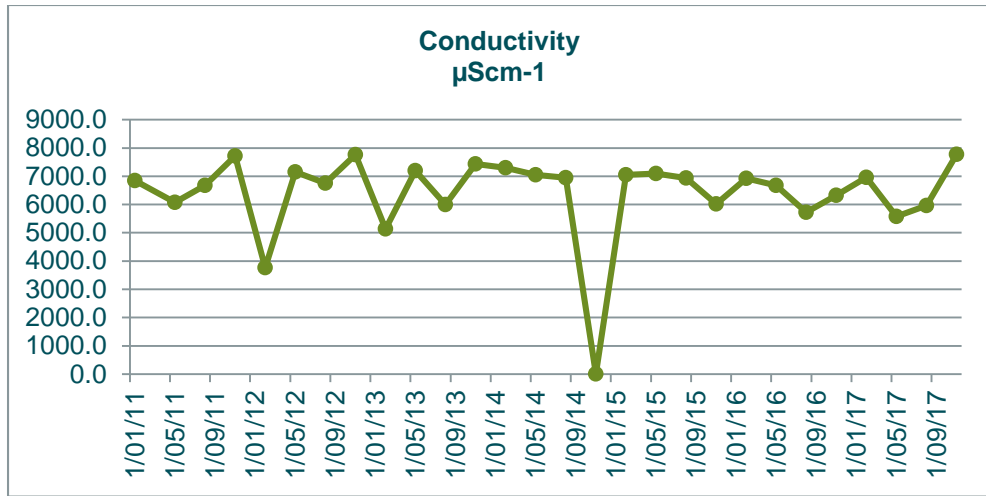


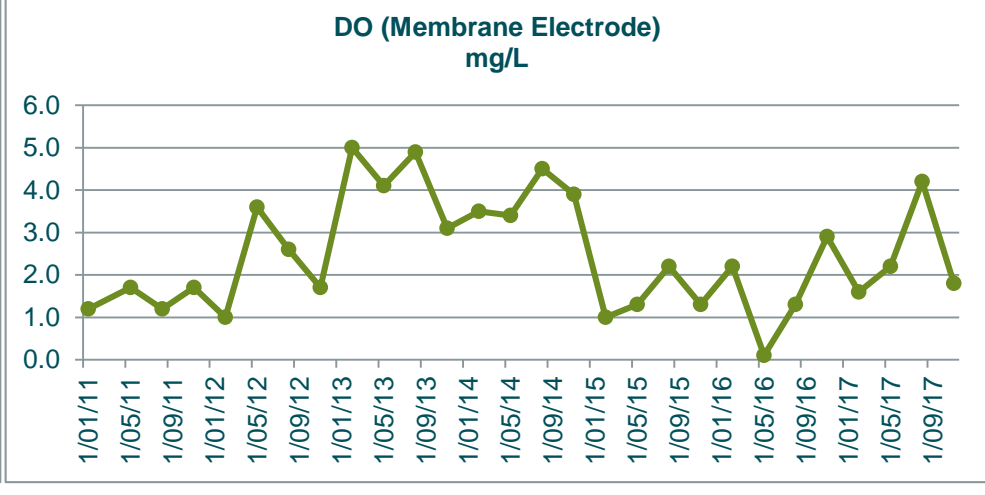
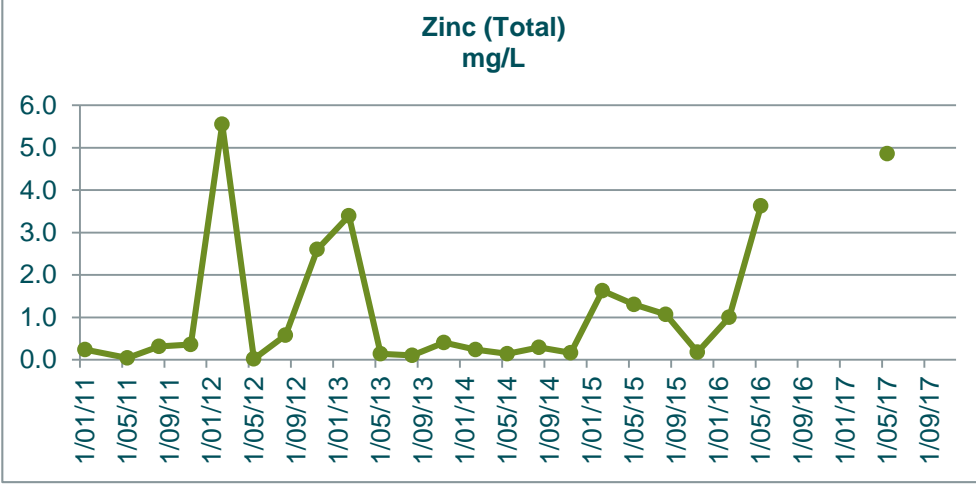
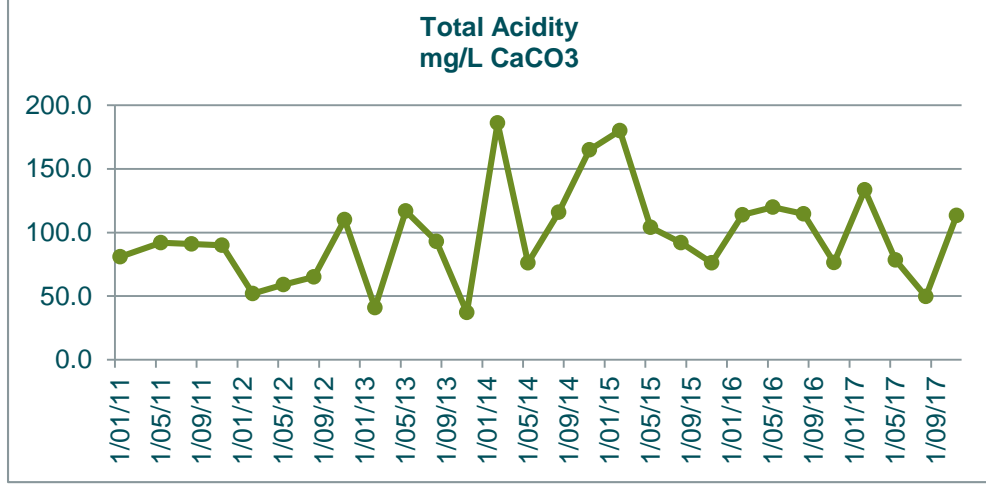
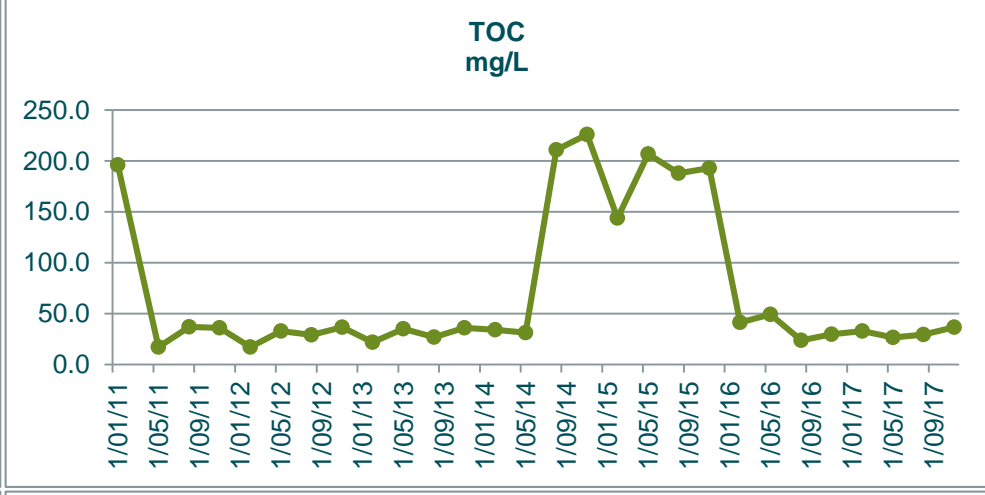
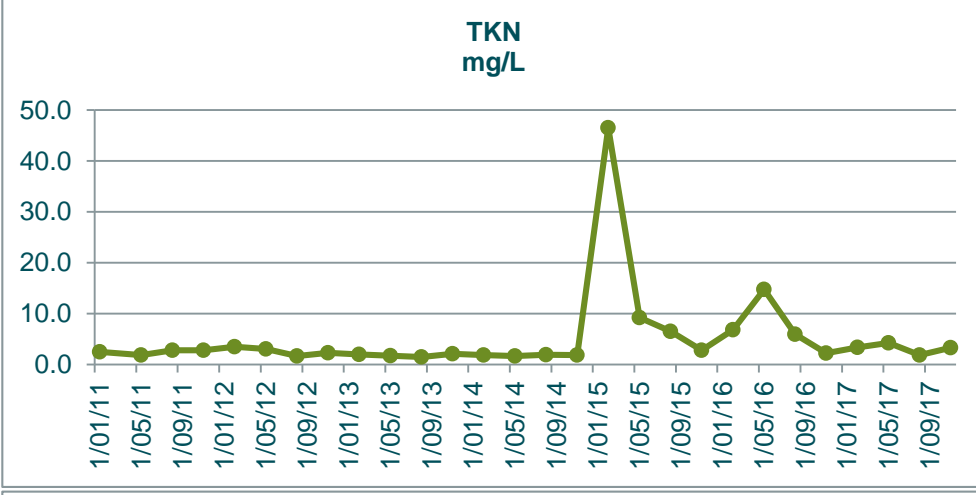
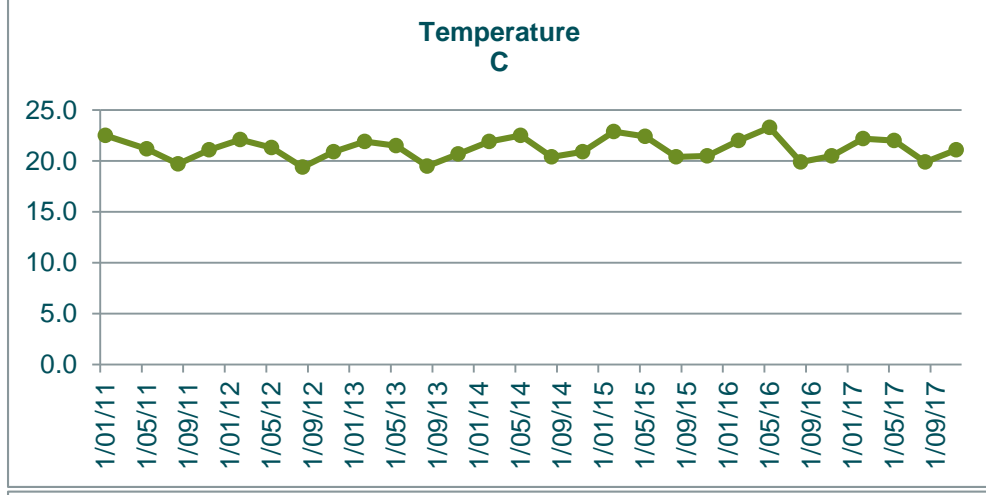
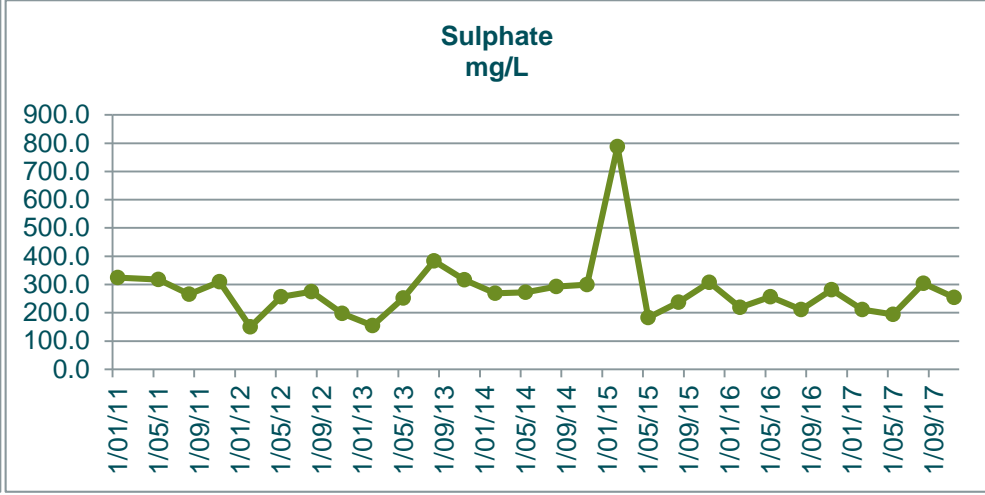
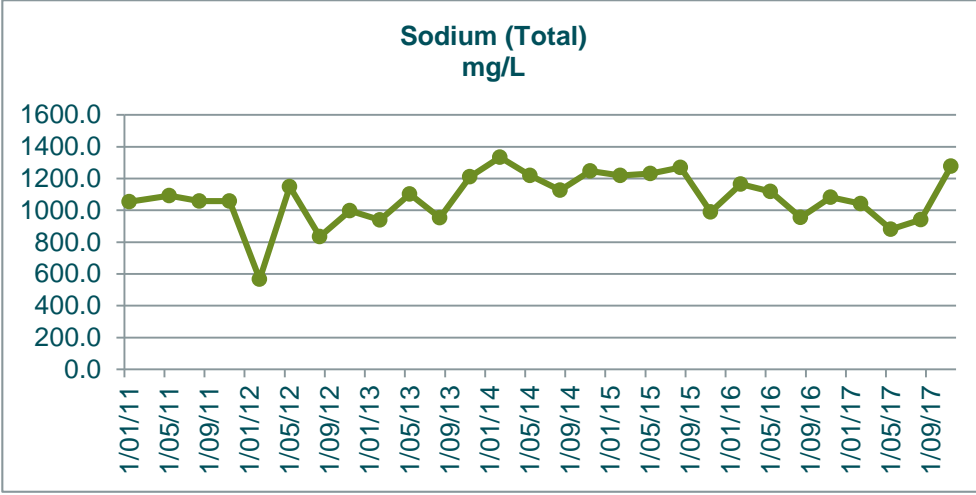
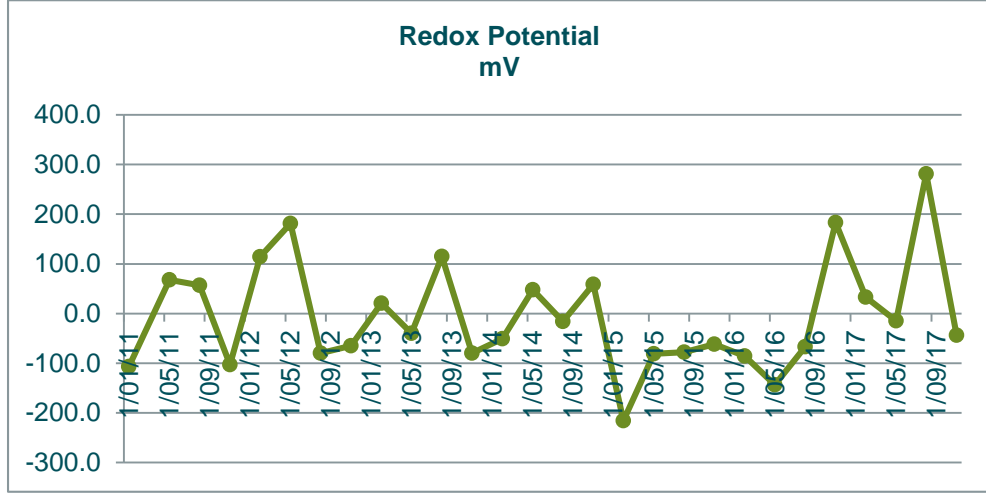
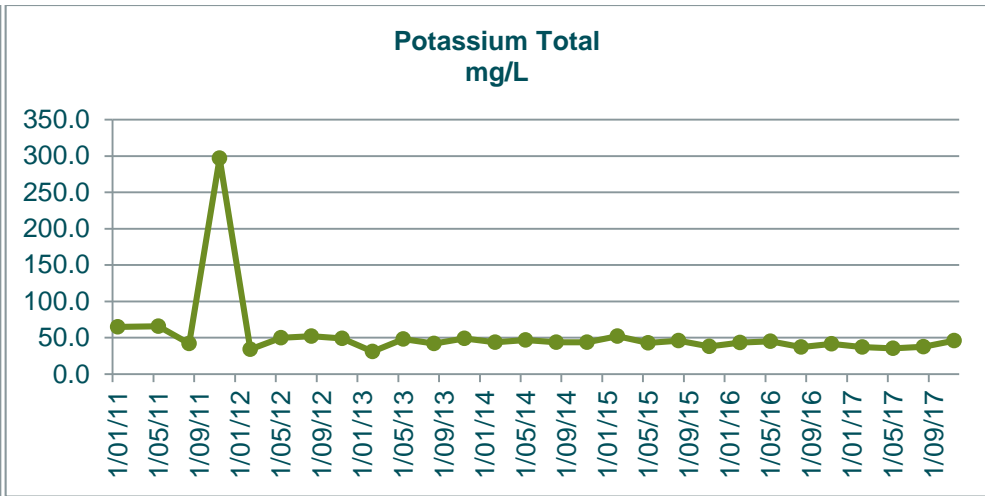
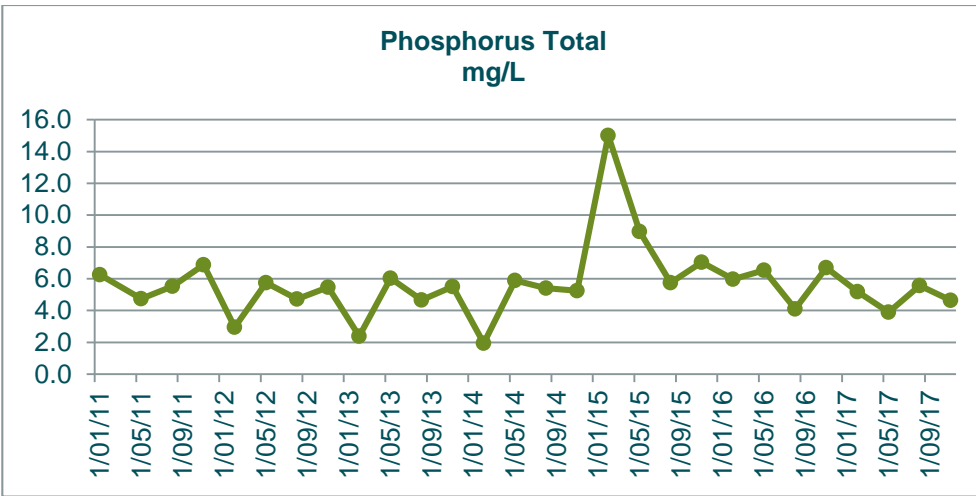
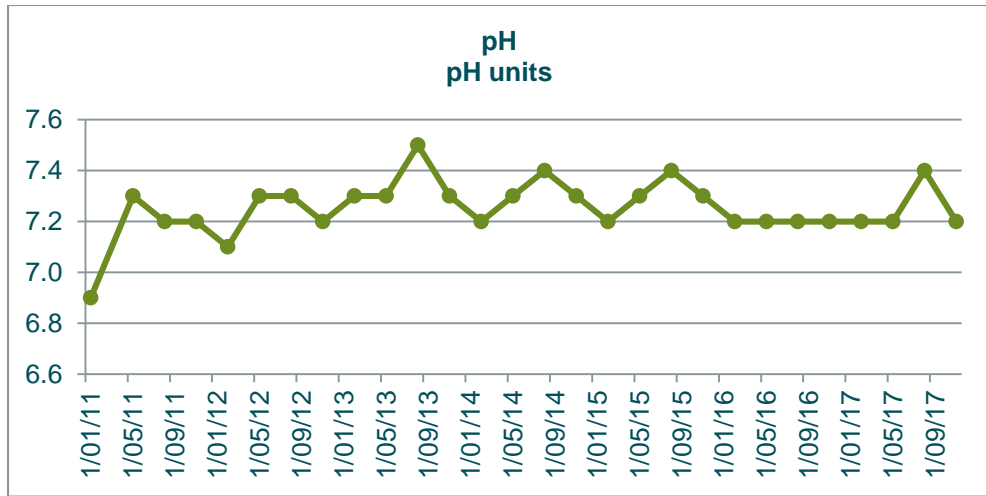




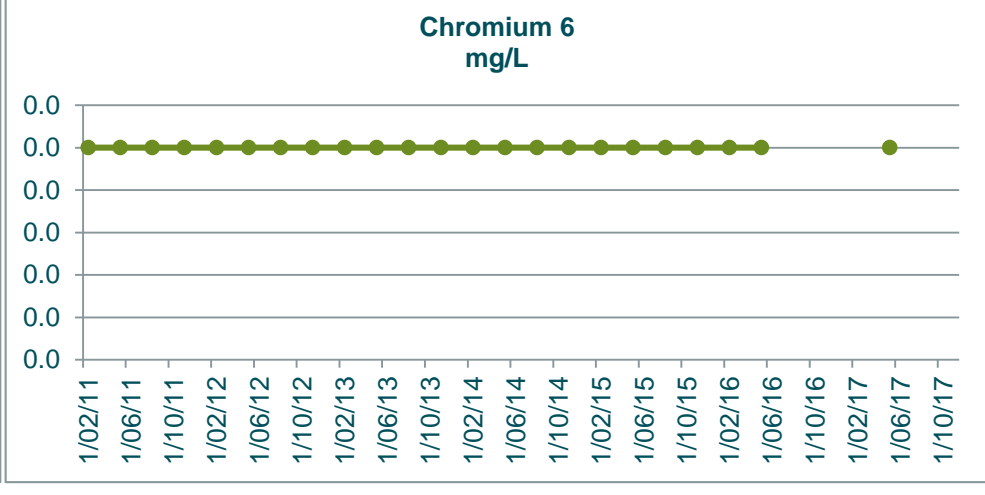
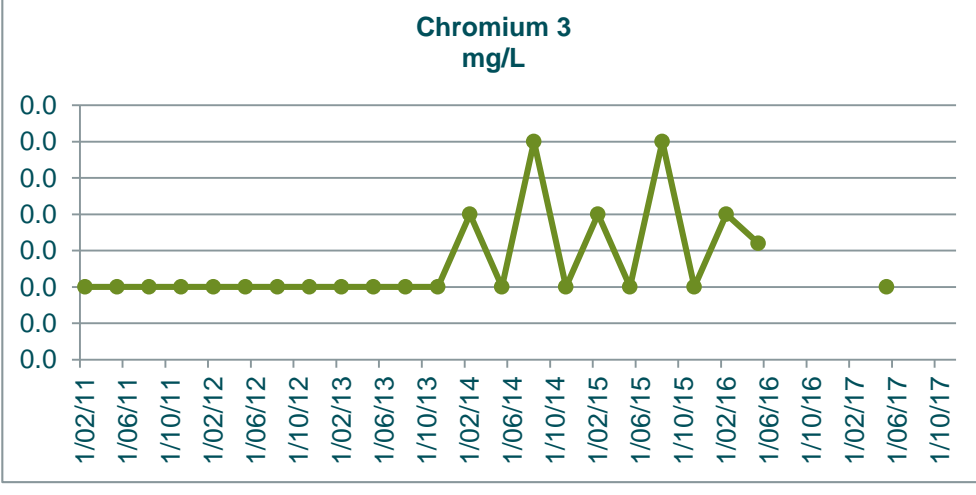
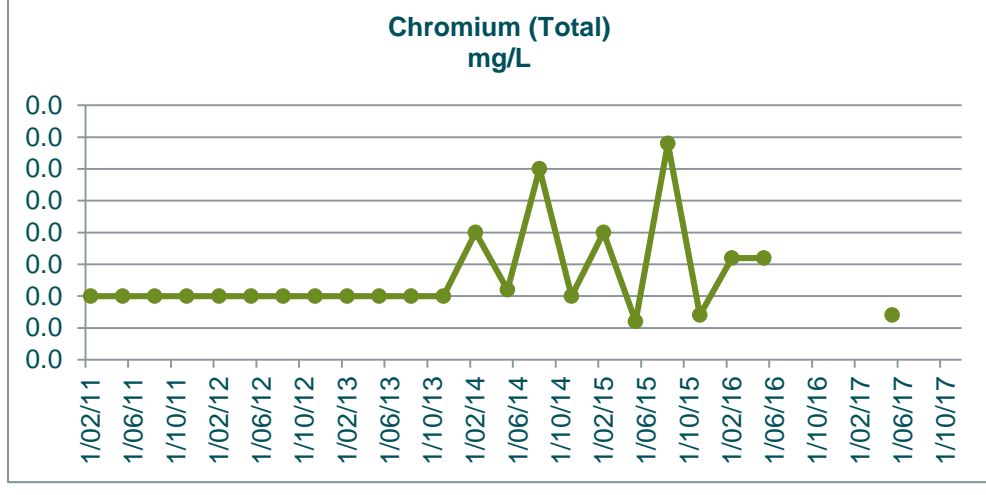
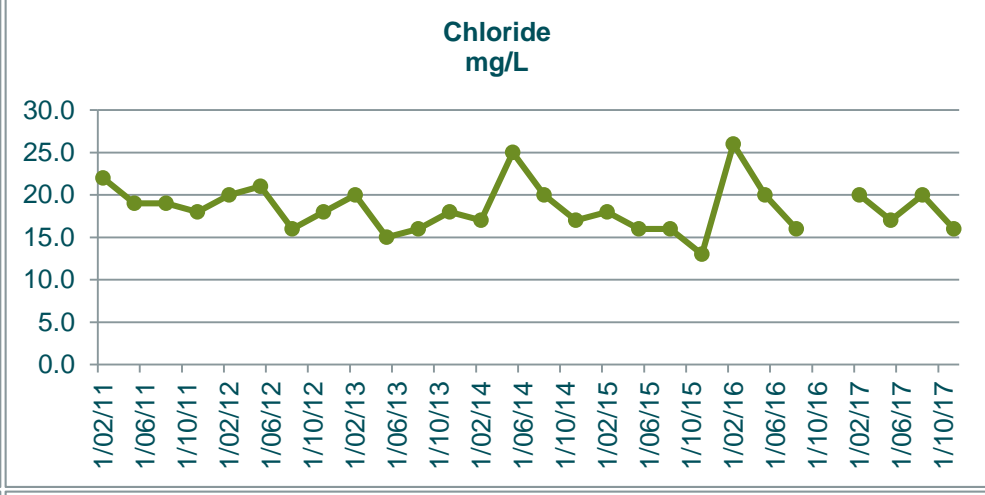
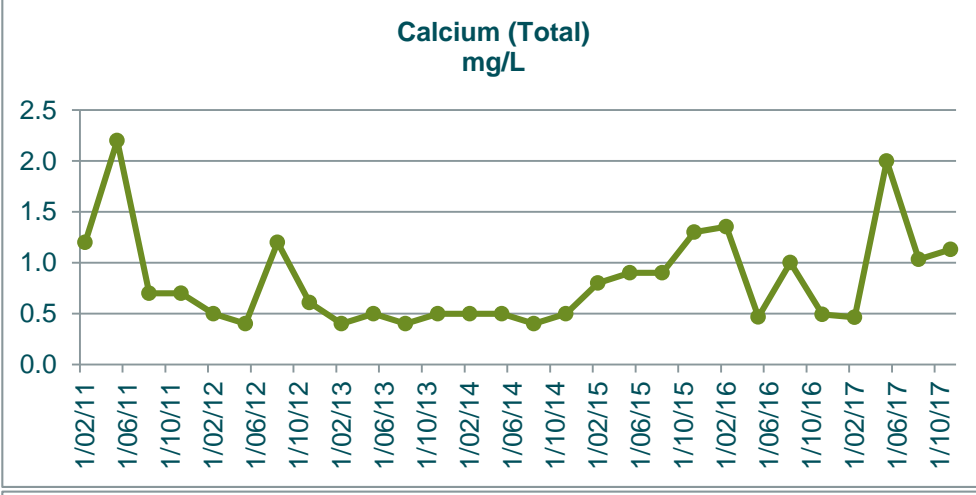
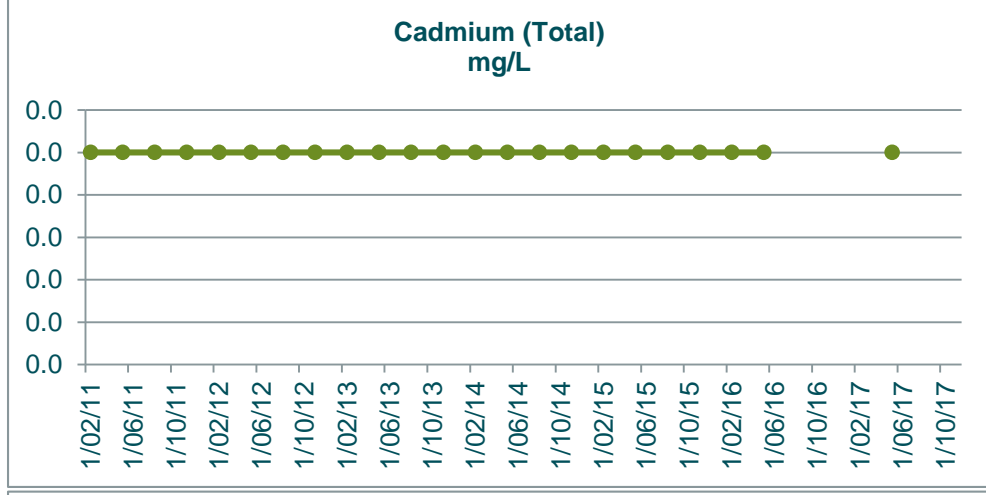
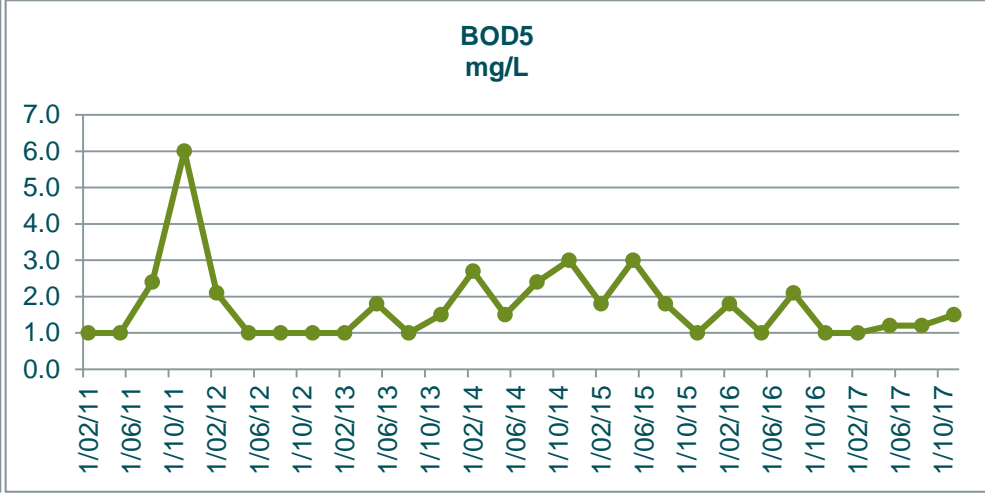
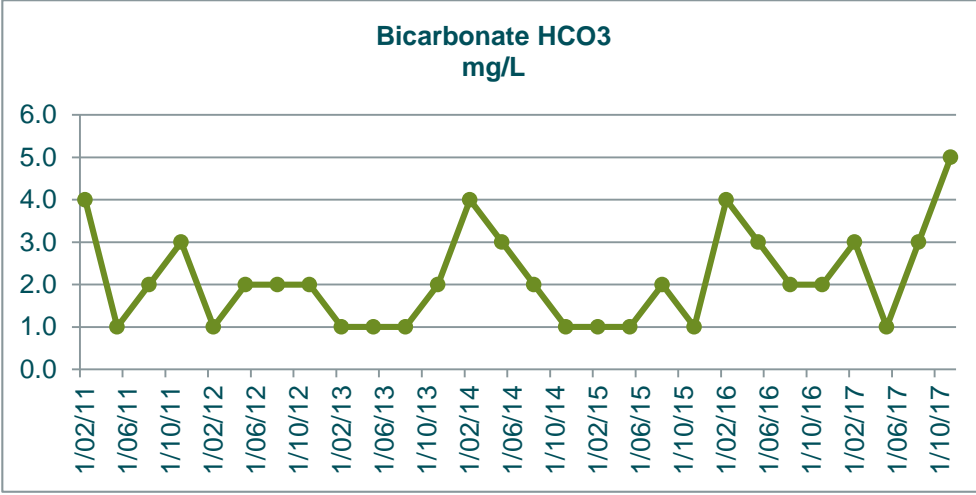
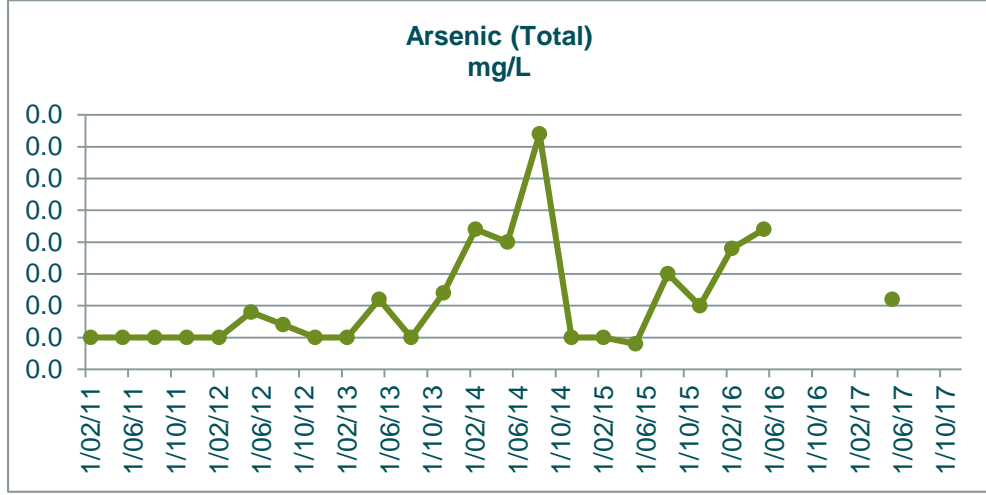
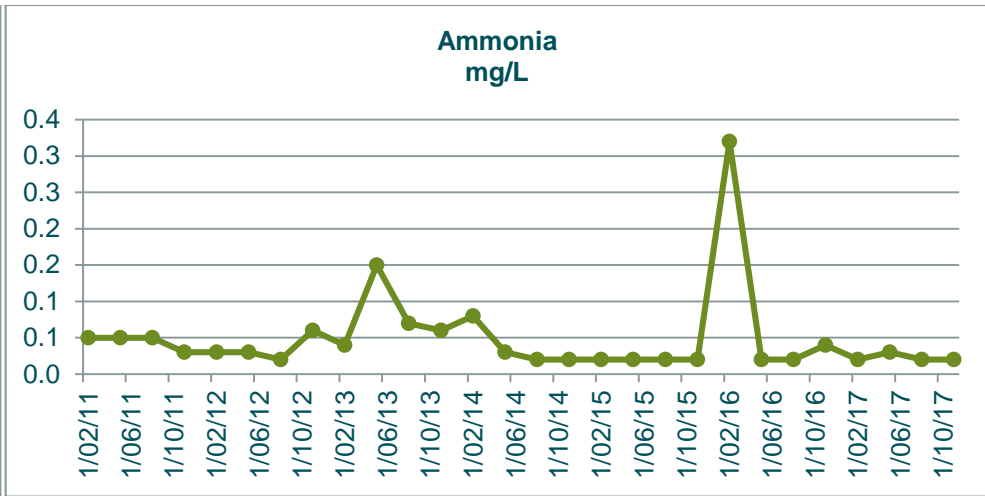
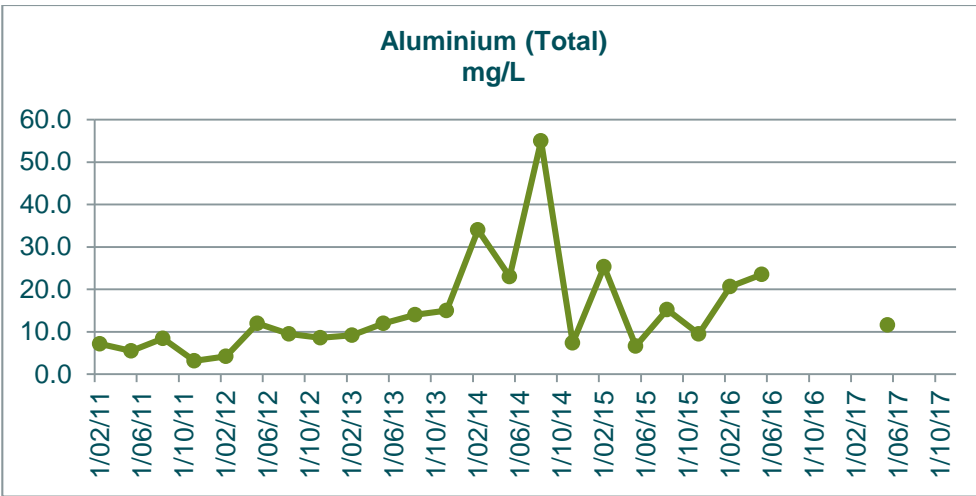
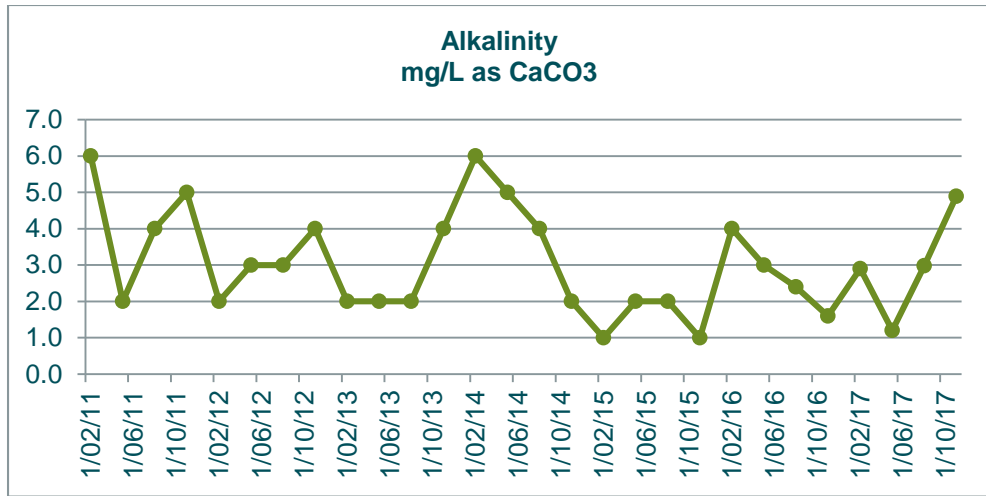
GW4	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L
31/01/11	1082.0	7.9	0.3	0.0	660.0	7.0	0.0	64.0	1850.0	0.0	0.0	0.0	6843.0	0.0	1.2	0.8	13.0	0.0	253.0	3.2	0.0	0.1	0.1	0.1	2.5	6.9		6.3	65.0	-107.0	1054.0	324.0	22.5	2.5	196.0	81.0	0.2
10/05/11	350.0	4.3	0.2	0.0	214.0	1.8	0.0	53.0	1490.0	0.0	0.0	0.0	6080.0	0.0	1.7	0.7	7.7	0.0	229.0	3.3	0.0	0.1	0.1	0.1	1.9	7.3		4.8	66.0	68.0	1092.0	318.0	21.2	1.8	17.0	92.0	0.0
9/08/11	1380.0	16.0	0.6	0.0	840.0	12.0	0.0	51.0	2000.0	0.0	0.0	0.0	6680.0	0.0	1.2	0.7	19.0	0.0	200.0	3.1	0.0	0.2	0.1	0.2	3.0	7.2		5.5	42.0	57.0	1058.0	266.0	19.7	2.8	37.0	91.0	0.3
8/11/11	1397.0	11.0	0.7	0.0	852.0	10.0	0.0	68.0	1845.0	0.0	0.0	0.0	7715.0	0.0	1.7	1.0	17.0	0.0	307.0	3.8	0.0	0.0	0.0	0.0	2.8	7.2		6.9	297.0	-103.3	1059.0	310.0	21.1	2.8	36.0	90.0	0.4
6/02/12	550.0	9.2	1.8	0.0	336.0	14.0	0.0	26.0	855.0	0.0	0.0	0.0	3770.0	0.0	1.0	0.4	18.0	0.0	102.0	1.8	0.0	0.6	0.3	0.9	4.4	7.1		2.9	34.0	114.0	566.0	150.0	22.1	3.5	17.0	52.0	5.6
8/05/12	1100.0	0.0	1.1	0.0	671.0	6.6	0.0	52.0	1630.0	0.0	0.0	0.0	7151.0	0.0	3.6	0.7	0.3	0.0	223.0	3.7	0.0	0.1	0.1	0.2	3.2	7.3		5.8	50.0	181.0	1148.0	256.0	21.3	3.0	33.0	59.0	0.0
6/08/12	1028.0	5.4	0.1	0.0	627.0	3.6	0.0	47.0	1500.0	0.0	0.0	0.0	6750.0	0.0	2.6	0.7	6.7	0.0	177.0	2.7	0.0	0.2	0.0	0.2	1.8	7.3		4.7	52.0	-80.0	835.0	275.0	19.4	1.7	29.0	65.0	0.6
13/11/12	1388.0	14.0	0.4	0.0	847.0	9.9	0.0	49.0	1870.0	0.0	0.0	0.0	7760.0	0.0	1.7	0.7	21.0	0.0	203.0	2.6	0.0	0.1	0.0	0.1	2.4	7.2		5.5	49.0	-65.0	998.0	198.0	20.9	2.3	36.5	110.0	2.6
13/02/13	772.0	16.0	0.4	0.0	471.0	8.7	0.0	34.0	1240.0	0.0	0.0	0.0	5140.0	0.0	5.0	0.4	19.0	0.0	133.0	2.0	0.0	0.9	0.0	0.9	2.9	7.3		2.4	31.0	21.0	940.0	154.0	21.9	2.0	22.0	41.0	3.4
14/05/13	1326.0	1.1	0.3	0.0	809.0	1.8	0.0	48.0	1800.0	0.0	0.0	0.0	7200.0	0.0	4.1	0.7	2.3	0.0	191.0	2.6	0.0	0.1	0.0	0.1	1.8	7.3		6.0	48.0	-40.0	1103.0	252.0	21.5	1.7	35.0	117.0	0.1
6/08/13	146.0	1.5	0.0	0.0	89.0	1.0	0.0	51.0	1290.0	0.0	0.0	0.0	6000.0	0.0	4.9	0.7	2.2	0.0	180.0	3.0	0.0	0.1	0.0	0.1	1.5	7.5		4.7	42.0	115.0	954.0	383.0	19.5	1.5	26.9	93.0	0.1
12/11/13	1251.0	5.3	0.2	0.0	763.0	3.3	0.0	57.0	1680.0	0.0	0.0	0.0	7430.0	0.0	3.1	0.8	6.8	0.0	220.0	3.2	0.0	0.1	0.0	0.1	2.2	7.3		5.5	49.0	-80.0	1212.0	316.0	20.7	2.1	36.0	37.0	0.4
11/02/14	1236.0	2.2	0.3	0.0	754.0	3.0	0.0	53.0	1730.0	0.0	0.0	0.0	7298.0	0.0	3.5	0.6	3.5	0.0	205.0	3.0	0.0	0.1	0.0	0.1	2.0	7.2		1.9	44.0	-51.0	1334.0	269.0	21.9	1.9	34.0	186.0	0.2
13/05/14	1000.0	2.1	0.2	0.0	61.0	2.1	0.0	52.0	1440.0	0.0	0.0	0.0	7050.0	0.0	3.4	0.8	2.7	0.0	190.0	2.4	0.0	0.3	0.0	0.3	2.0	7.3		5.9	47.0	48.0	1219.0	272.0	22.5	1.7	31.3	76.0	0.1
12/08/14	1088.0	3.0	0.2	0.0	664.0	2.7	0.0	52.0	1650.0	0.0	0.0	0.0	6950.0	0.0	4.5	0.8	4.9	0.0	193.0	2.8	0.0	0.1	0.0	0.1	2.0	7.4		5.4	44.0	-16.0	1126.0	293.0	20.4	1.9	211.0	116.0	0.3
10/11/14	1165.0	2.9	0.2	0.0	711.0	1.5	0.0	50.0	1690.0	0.0	0.0	0.0	6.9	0.0	3.9	0.8	3.8	0.0	195.0	2.5	0.0	0.1	0.0	0.1	2.0	7.3		5.3	44.0	59.0	1247.0	300.0	20.9	1.9	226.0	165.0	0.2
9/02/15	1322.0	4.4	28.2	0.0	806.0	190.0	0.0	46.0	1600.0	0.0	0.0	0.0	7050.0	0.0	1.0	0.8	13.4	0.0	211.0	2.9	0.0	0.0	0.0	0.1	46.6	7.2		15.0	52.0	-216.0	1220.0	788.0	22.9	46.6	144.0	180.0	1.6
11/05/15	1241.0	6.7	3.8	0.0	757.0	36.0	0.0	52.0	1700.0	0.0	0.0	0.0	7100.0	0.0	1.3	0.8	11.6	0.0	206.0	3.0	0.0	0.1	0.0	0.1	9.3	7.3		9.0	43.0	-81.0	1232.0	183.0	22.4	9.2	207.0	104.0	1.3
11/08/15	1198.0	5.4	2.4	0.0	1198.0	14.0	0.0	58.0	1620.0	0.0	0.0	0.0	6940.0	0.0	2.2	0.8	11.1	0.0	224.0	2.6	0.0	0.1	0.0	0.1	6.6	7.4		5.8	46.0	-78.0	1270.0	237.0	20.4	6.5	188.0	92.0	1.1
10/11/15	1170.0	1.0	1.0	0.0	1170.0	4.5	0.0	53.0	1400.0	0.0	0.0	0.0	6020.0	0.0	1.3	0.8	4.3	0.0	194.0	3.0	0.0	0.0	0.0	0.0	2.8	7.3		7.0	38.0	-62.0	990.0	307.0	20.5	2.8	193.0	76.0	0.2
8/02/16	1250.0	1.9	3.1	0.0	1250.0	10.2	0.0	52.4	1550.0	0.0	0.0	0.0	6920.0	0.0	2.2	0.7	5.4	0.0	202.4	2.8	0.0	0.1	0.0	0.1	6.9	7.2		6.0	43.3	-86.0	1165.2	219.7	22.0	6.8	41.3	114.0	1.0
9/05/16	1320.0	11.2	8.7	0.0	1320.0	69.0	0.0	49.6	1535.0	0.0	0.0	0.0	6680.0	0.0	0.1	0.8	32.7	0.0	194.0	3.0	0.0	0.2	0.0	0.2	15.0	7.2		6.5	45.1	-144.0	1119.2	255.9	23.3	14.8	49.3	120.0	3.6
9/08/16	935.0		2.4		935.0	12.0		40.3	1275.0				5727.9		1.3	0.7			153.9			0.1	0.0	0.1	6.0	7.2		4.1	37.2	-67.0	954.4	211.6	19.9	5.9	23.9	114.7	
7/11/16	1120.0		0.6		1120.0	2.0		50.9	1650.0				6320.8		2.9	0.8			193.2			0.0	0.0	0.0	2.3	7.2		6.7	41.7	183.0	1083.0	281.6	20.5	2.2	29.7	76.5	
7/02/17	1200.0		1.1		1200.0	8.5		45.8	1550.0				6964.7		1.6	0.7			184.0			0.1	0.0	0.1	3.4	7.2		5.2	37.1	32.8	1041.1	211.5	22.2	3.4	32.9	133.6	
8/05/17	946.0	8.3	2.1	0.0	946.0	8.5	0.0	36.7	1290.0	0.0	0.0	0.0	5581.2	0.0	2.2	0.7	27.0	0.0	148.8	2.1	0.0	0.1	0.0	0.1	4.3	7.2		3.9	35.5	-14.5	880.9	194.4	22.0	4.3	26.7	78.3	4.9
8/08/17	972.7		0.0		973.0	2.0		46.9	1225.0				5962.0		4.2	0.7			171.7			0.6	0.0	0.6	2.4	7.4		5.6	37.8	281.4	941.9	304.3	19.9	1.8	29.4	49.6	
7/11/17	1.0		0.5			4.2		54.3	1850.0				7777.3		1.8	0.1			219.8			0.1	0.0	0.1	3.4	7.2		4.7	46.0	-43.9	1277.6	254.5	21.1	3.3	36.7	113.3	
2017 Min	1.0	8.3	0.0	0.0	946.0	2.0	0.0	36.7	1225.0	0.0	0.0	0.0	5581.2	0.0	1.6	0.1	27.0	0.0	148.8	2.1	0.0	0.1	0.0	0.1	2.4	7.2		3.9	35.5	-43.9	880.9	194.4	19.9	1.8	26.7	49.6	4.9
2017 Max	1200.0	8.3	2.1	0.0	1200.0	8.5	0.0	54.3	1850.0	0.0	0.0	0.0	7777.3	0.0	4.2	0.7	27.0	0.0	219.8	2.1	0.0	0.6	0.0	0.6	4.3	7.4		5.6	46.0	281.4	1277.6	304.3	22.2	4.3	36.7	133.6	4.9
2017 Mean	779.9	8.3	0.9	0.0	1039.7	5.8	0.0	45.9	1478.8	0.0	0.0	0.0	6571.3	0.0	2.5	0.5	27.0	0.0	181.1	2.1	0.0	0.2	0.0	0.2	3.4	7.3		4.8	39.1	64.0	1035.4	241.2	21.3	3.2	31.4	93.7	4.9

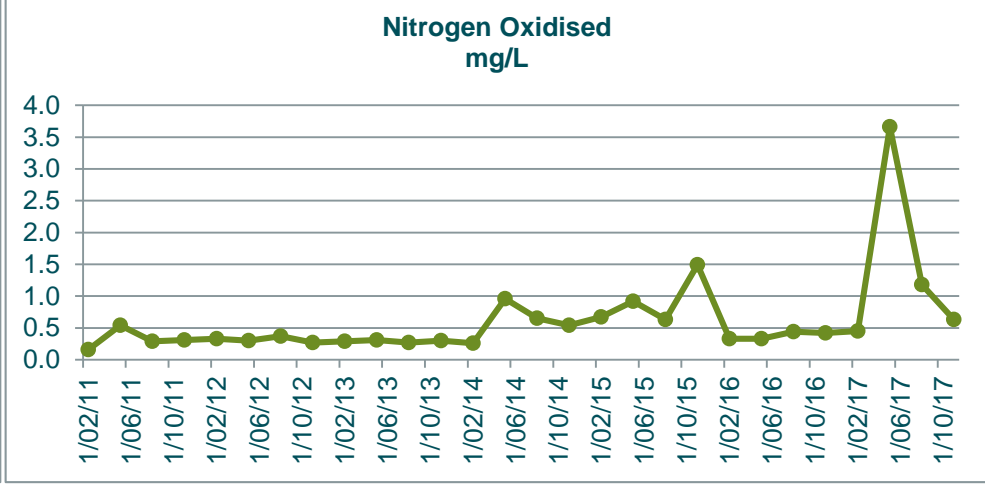
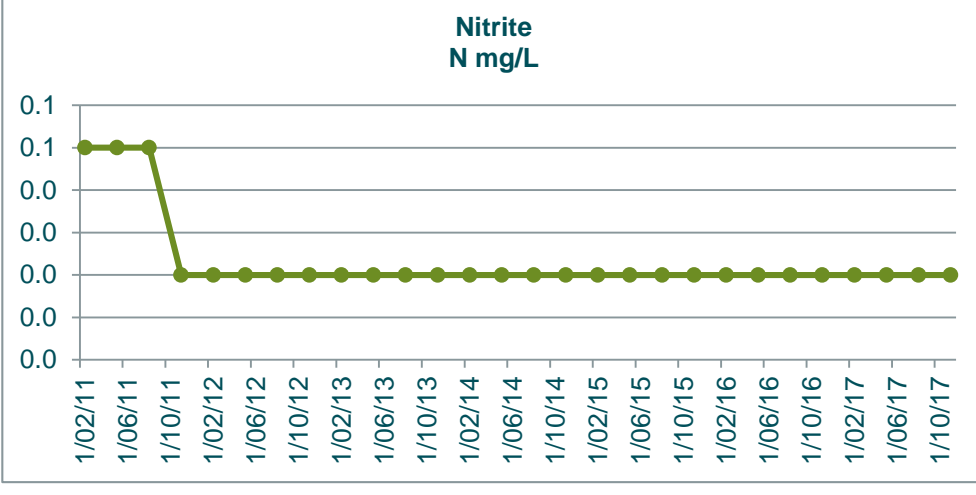
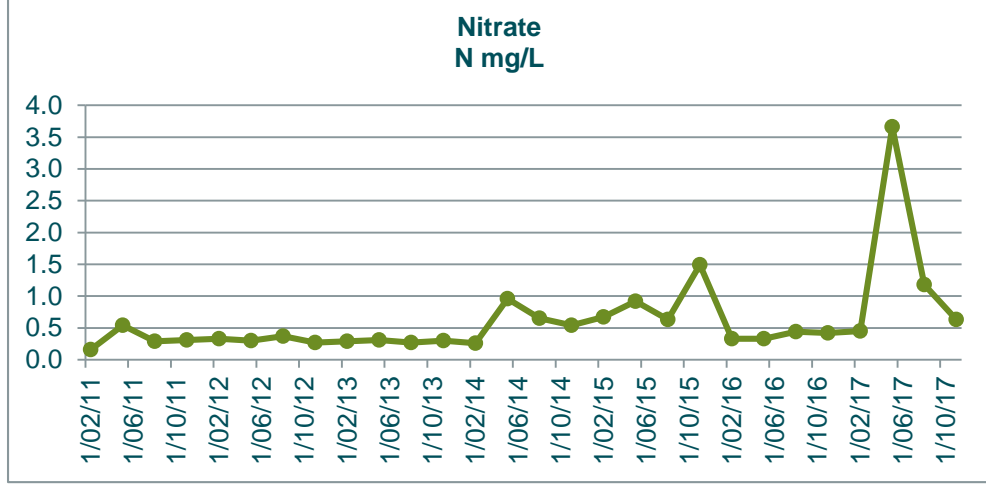
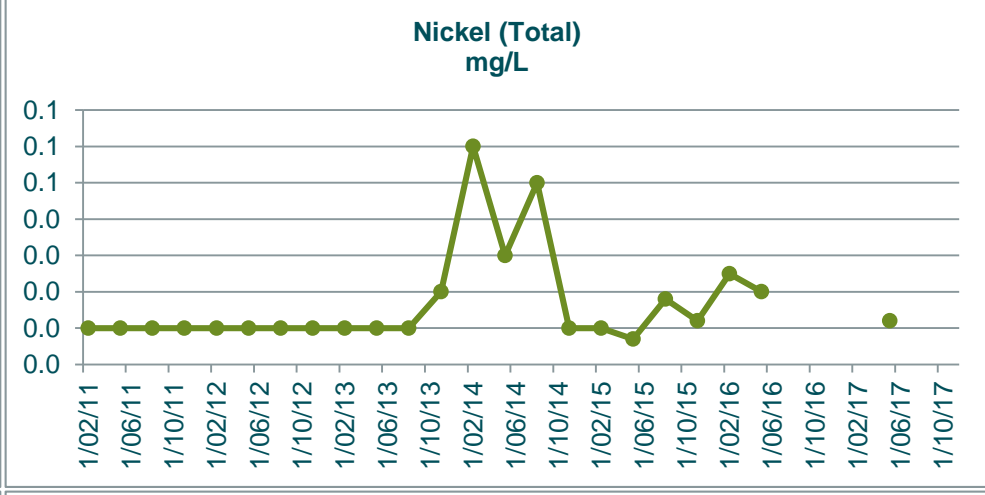
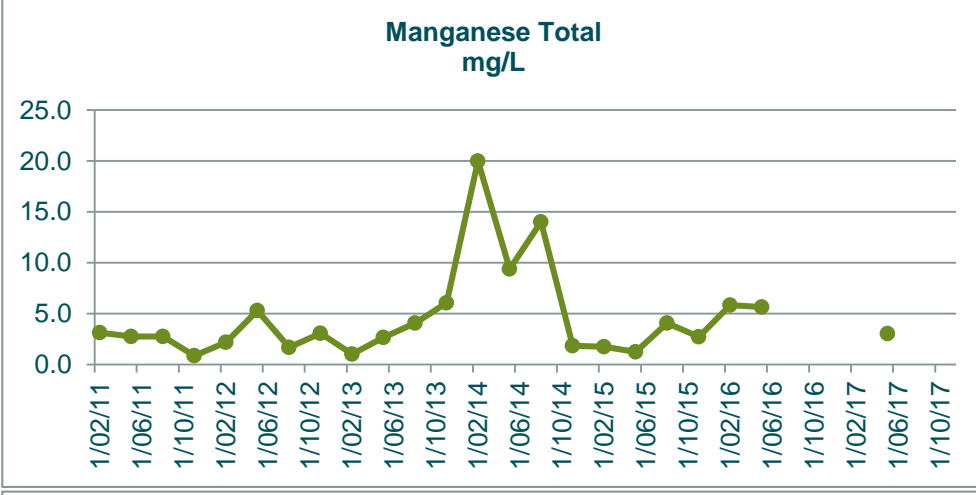
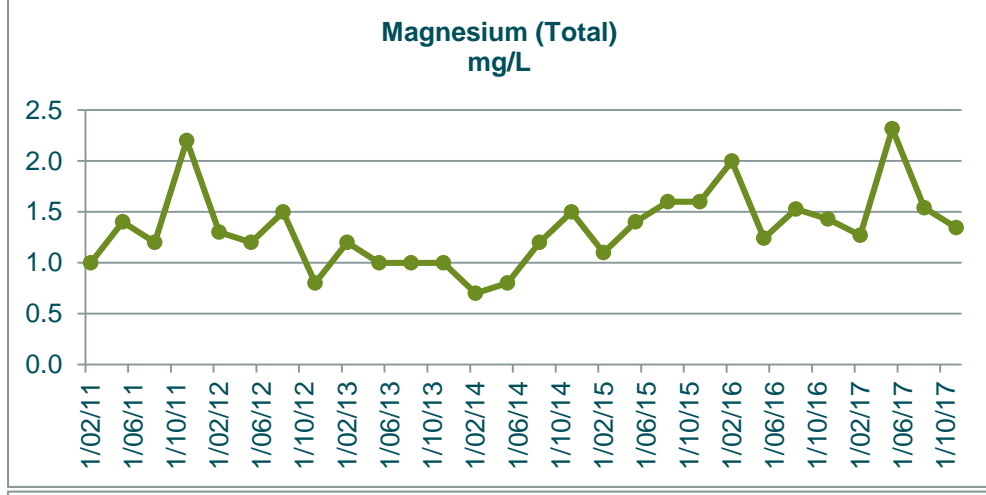
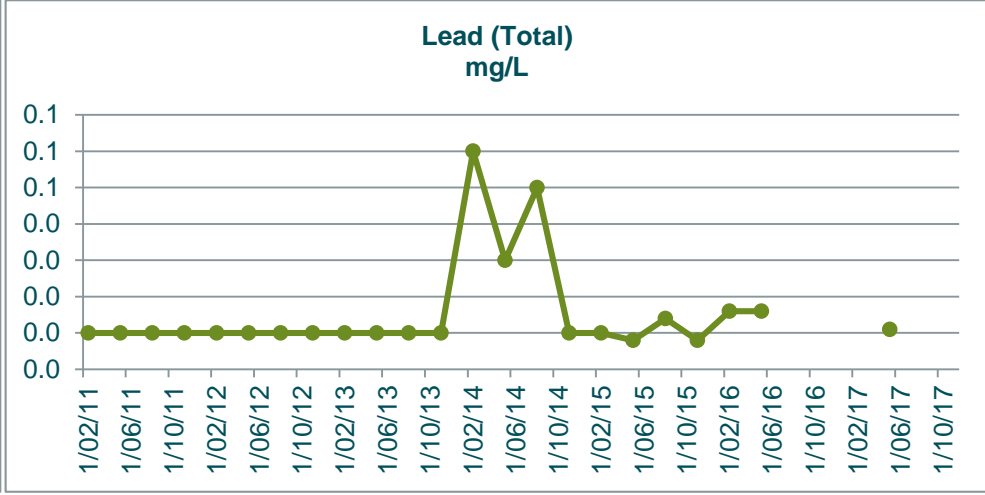
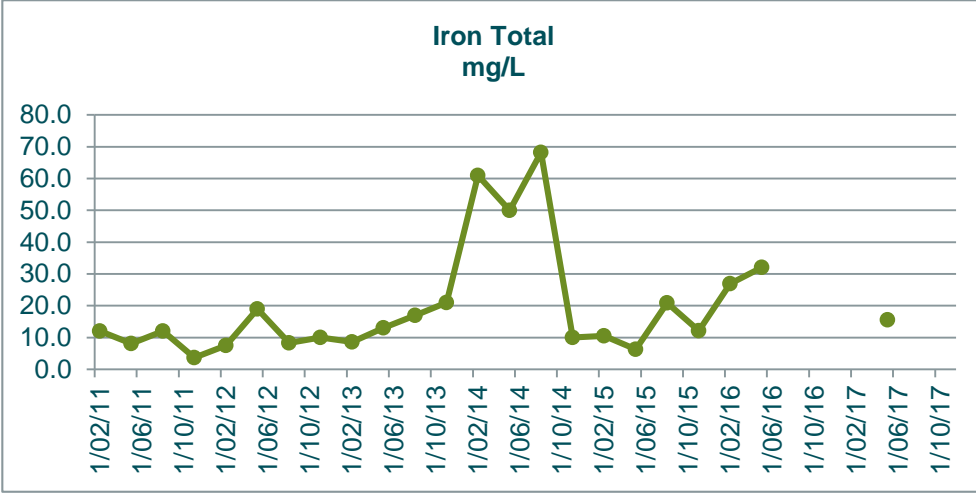
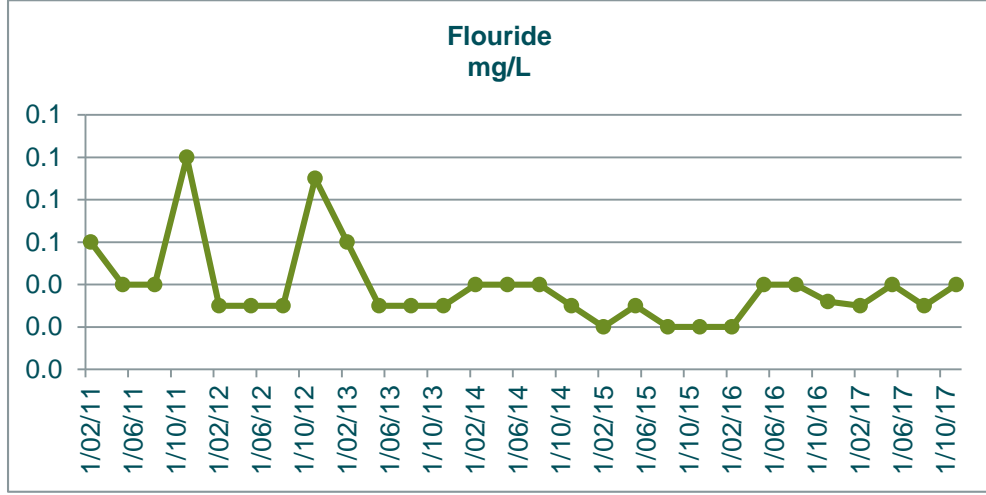
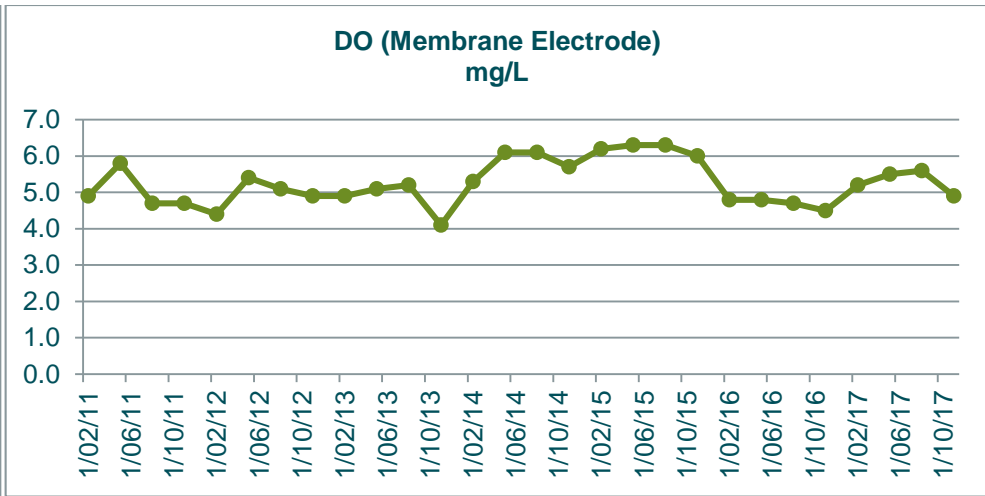
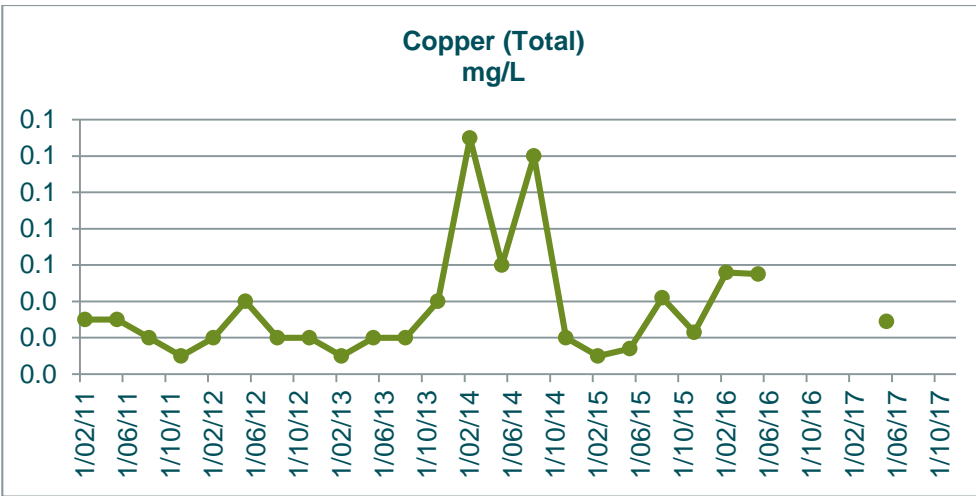
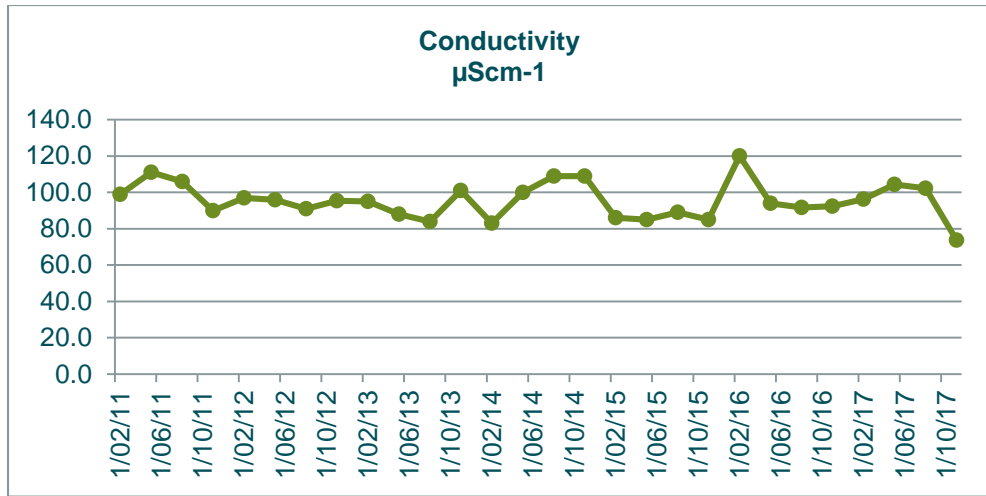


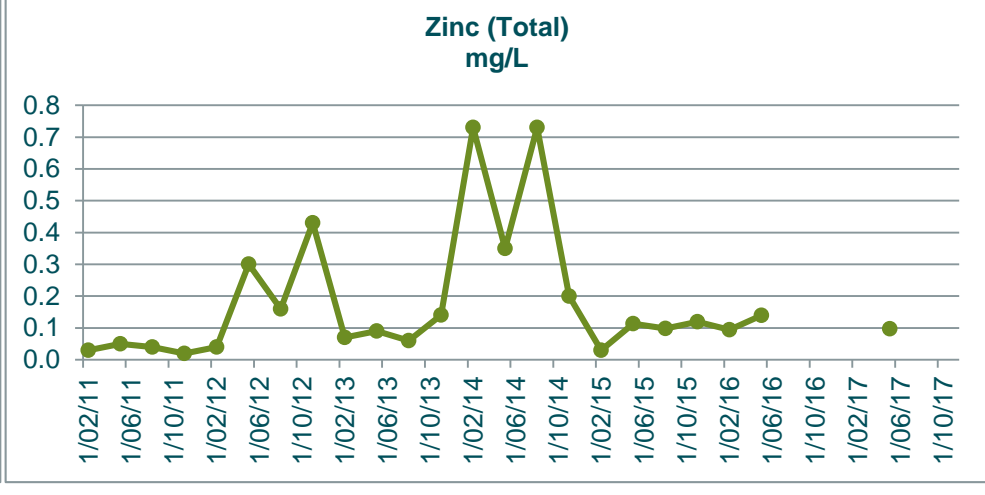
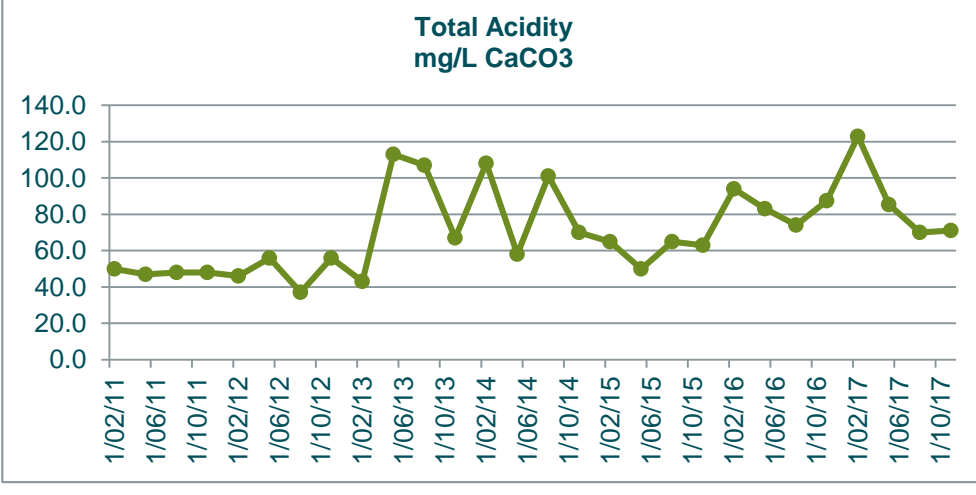
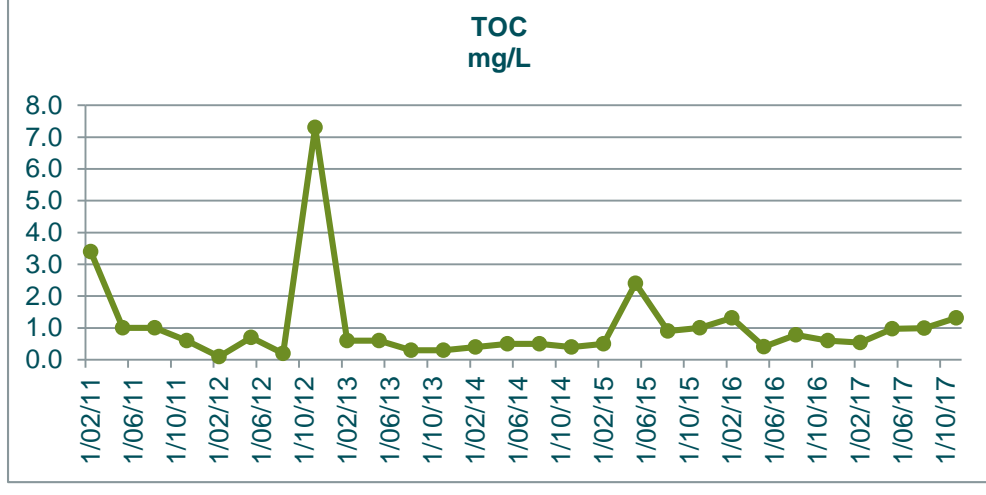
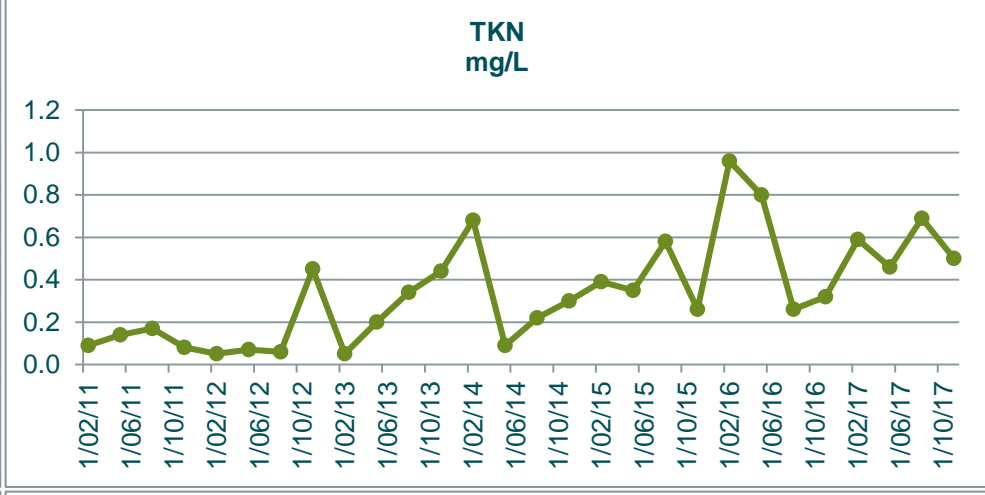
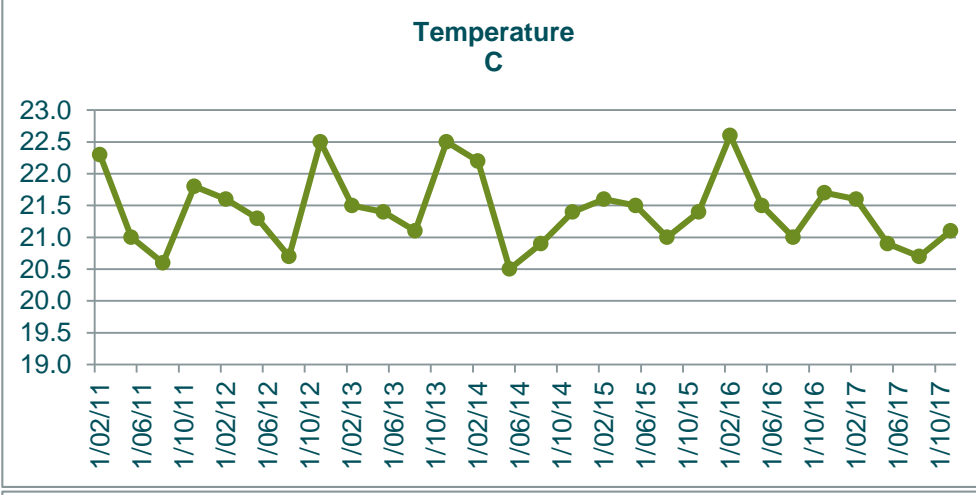
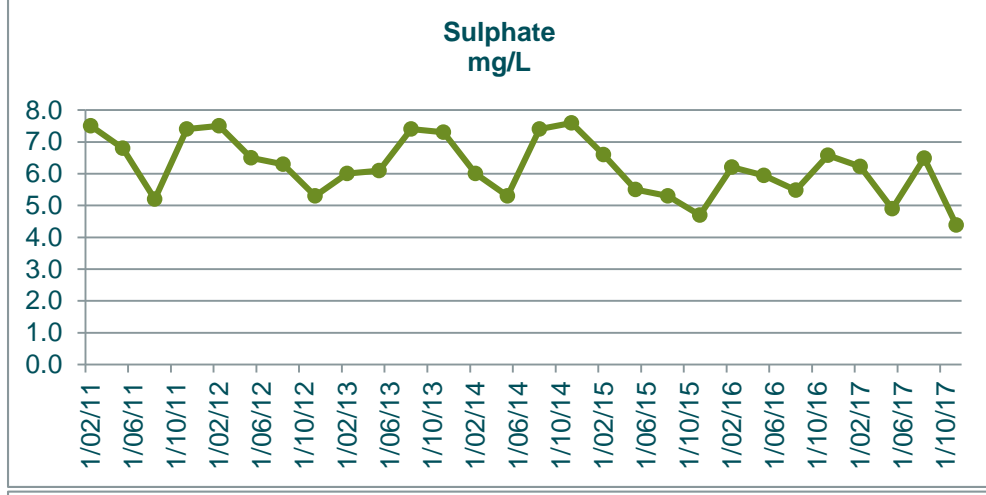
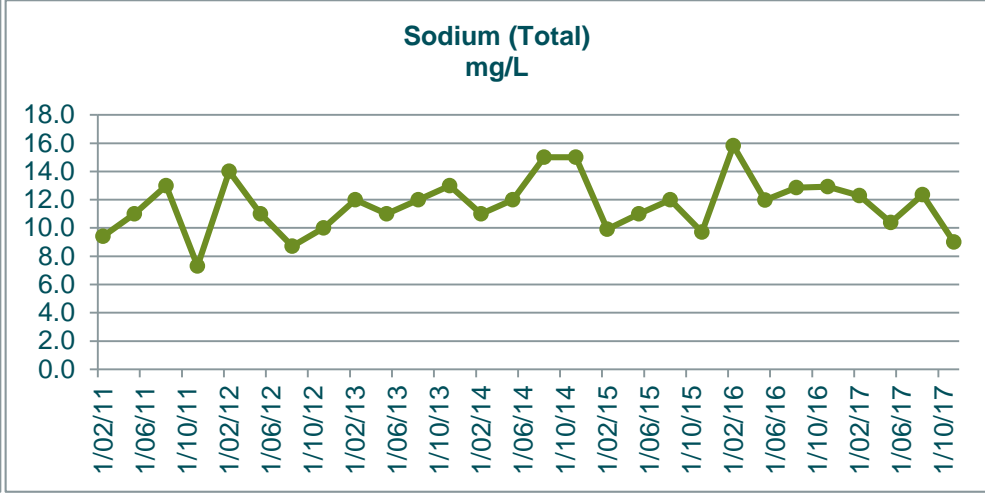
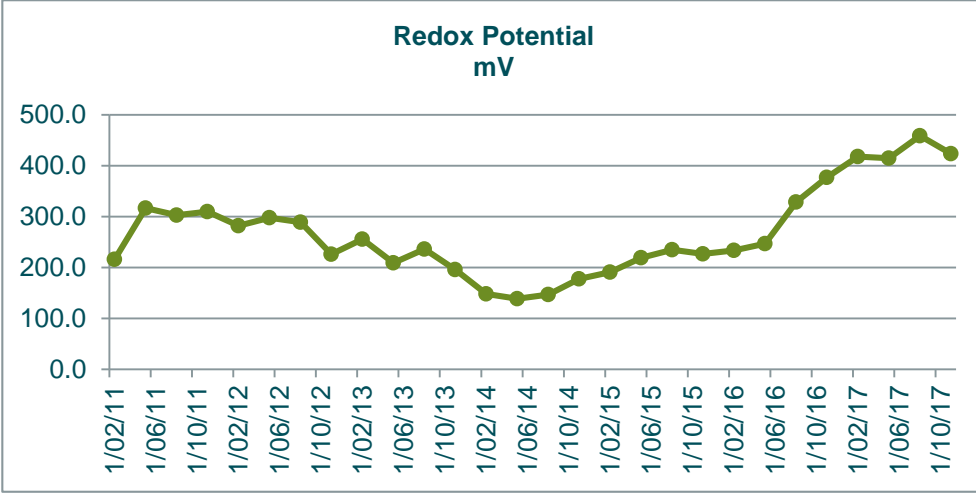
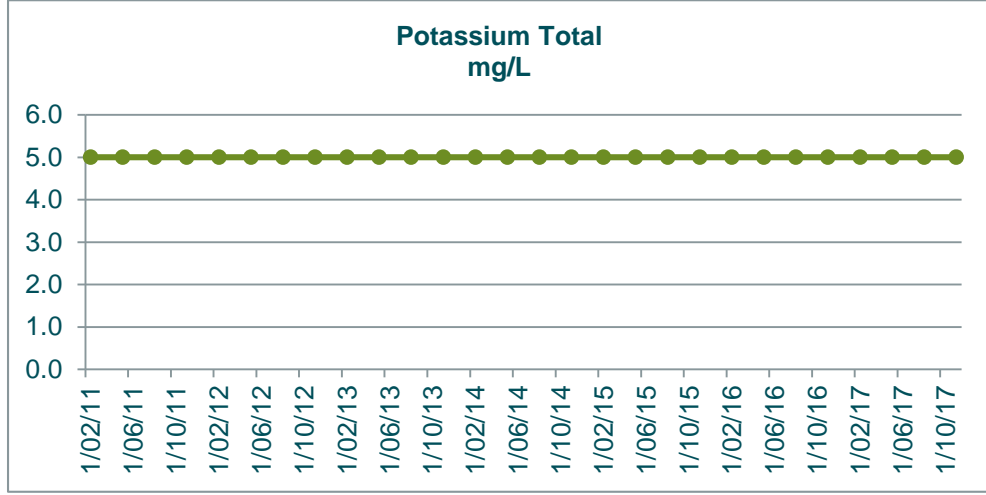
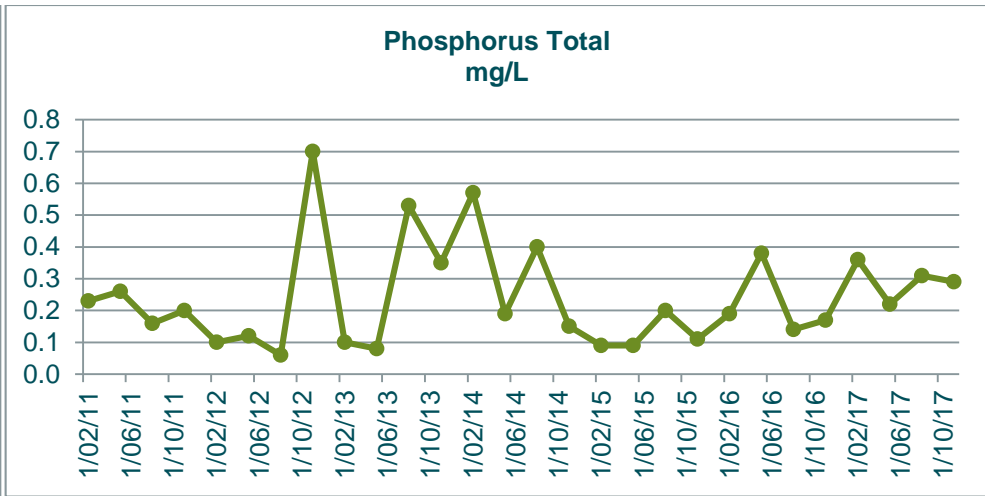
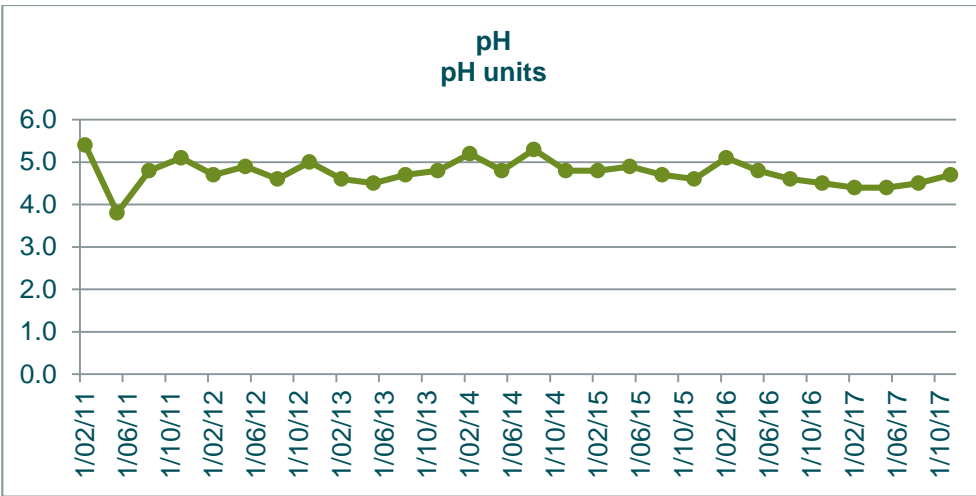
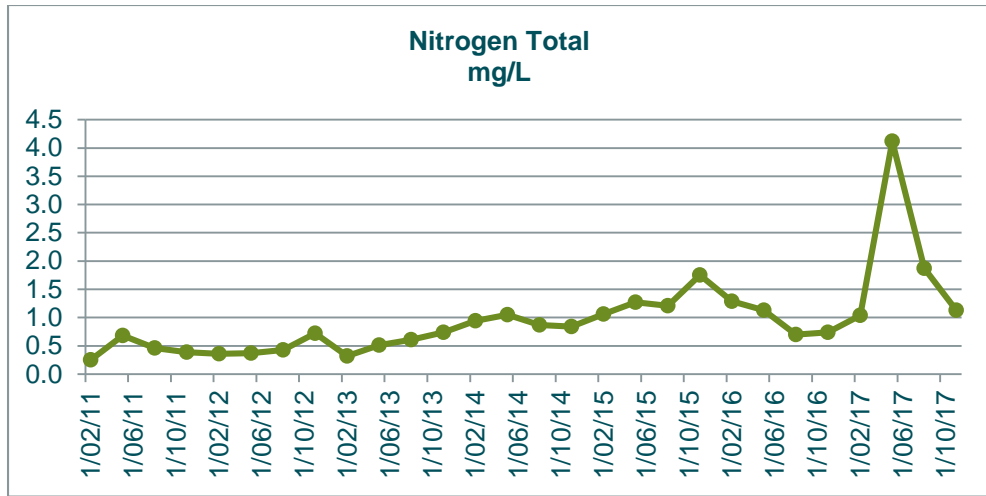




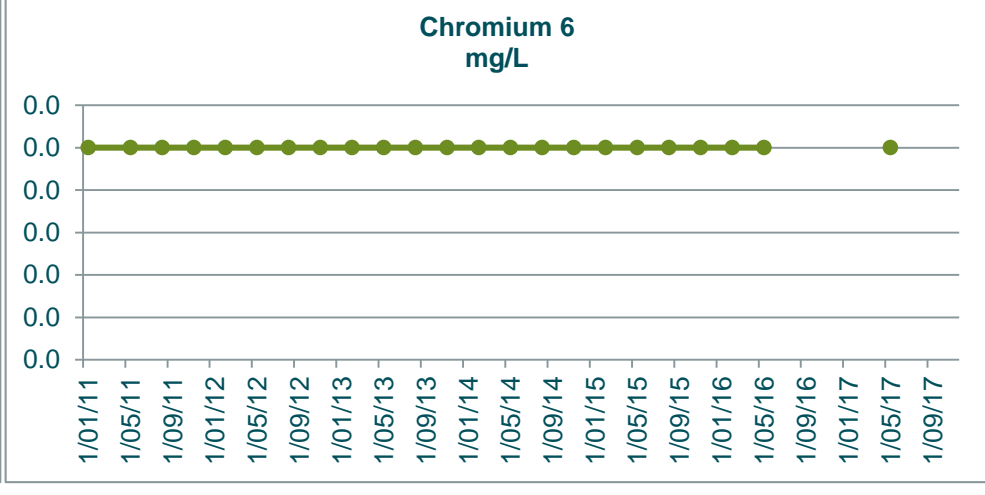
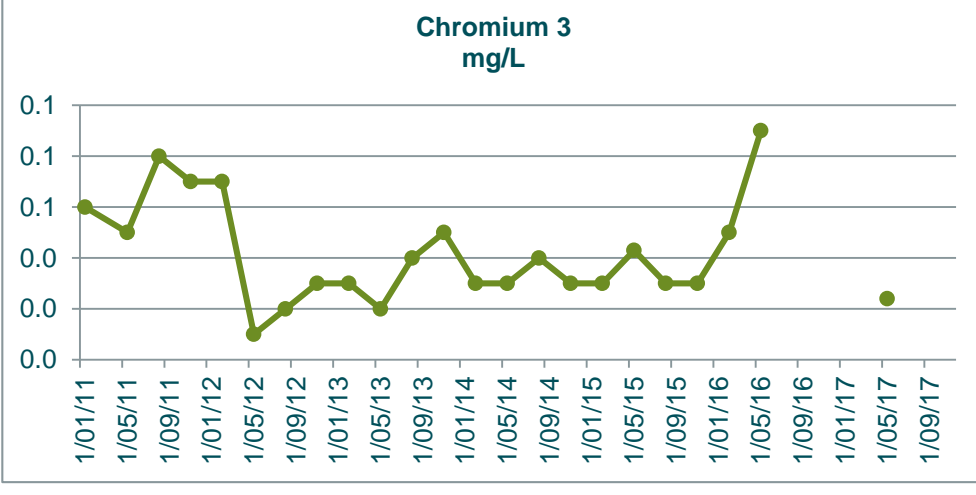
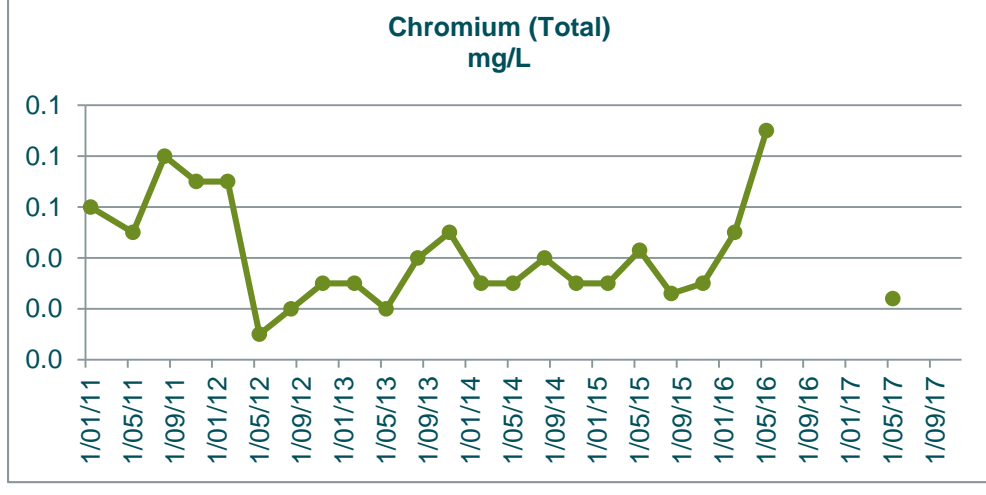
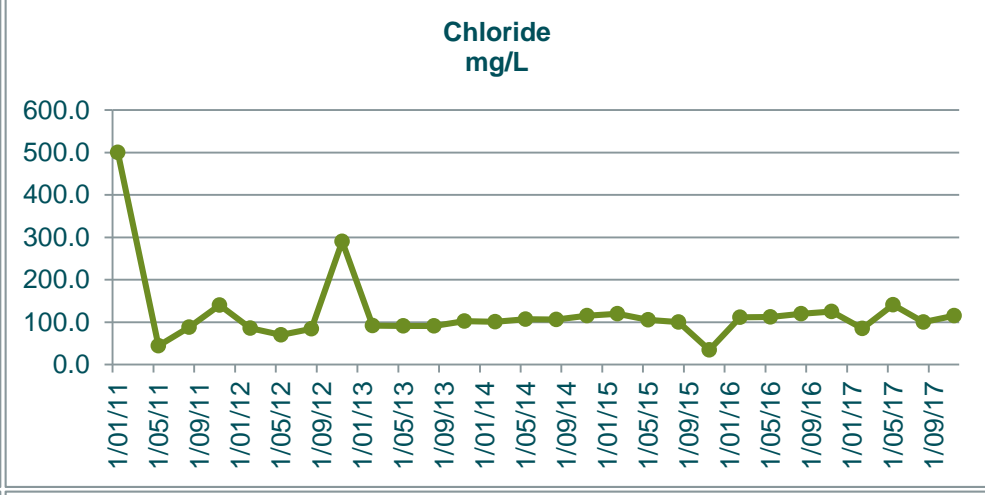
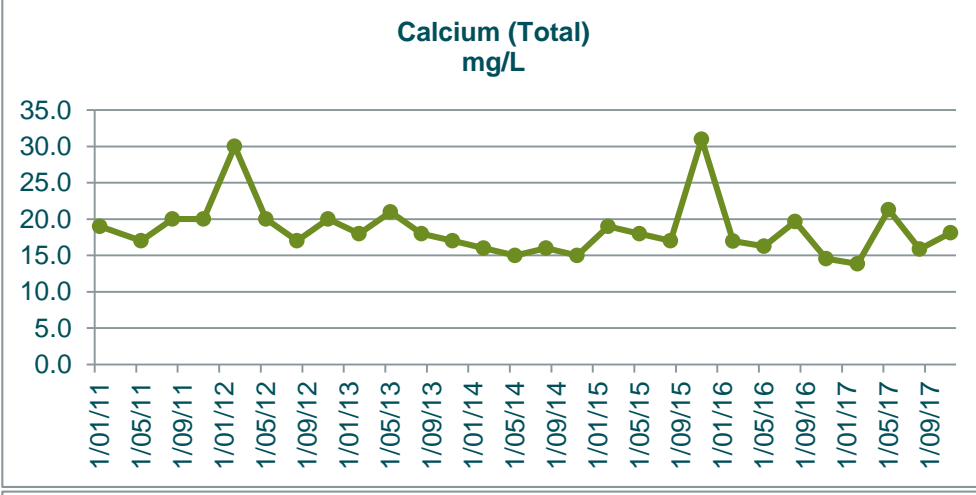
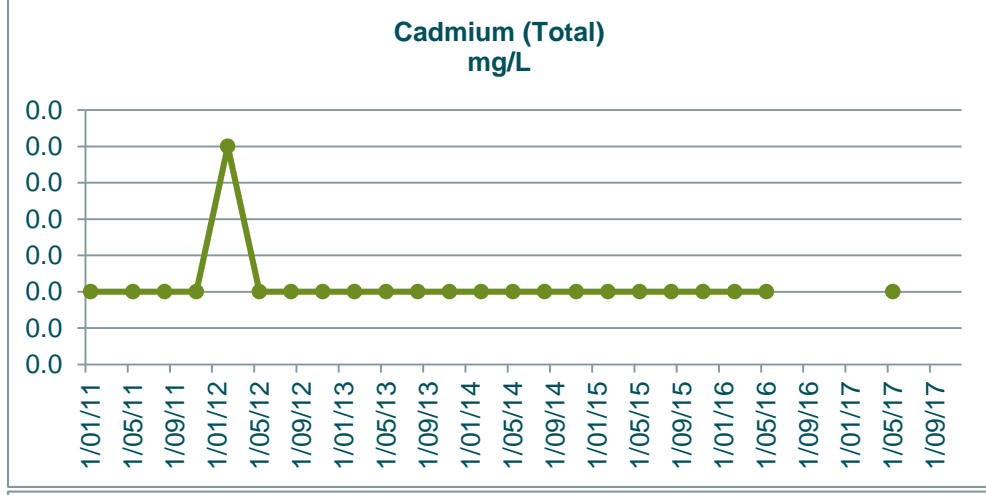
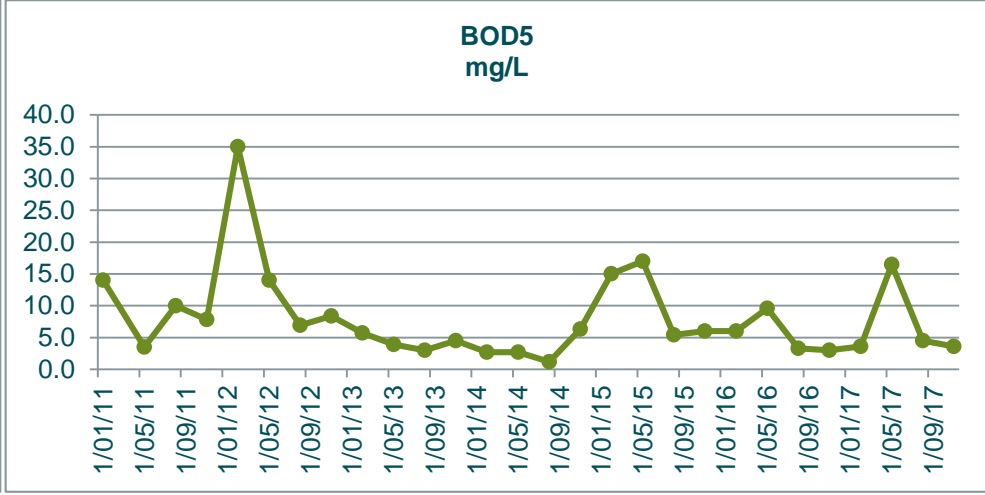
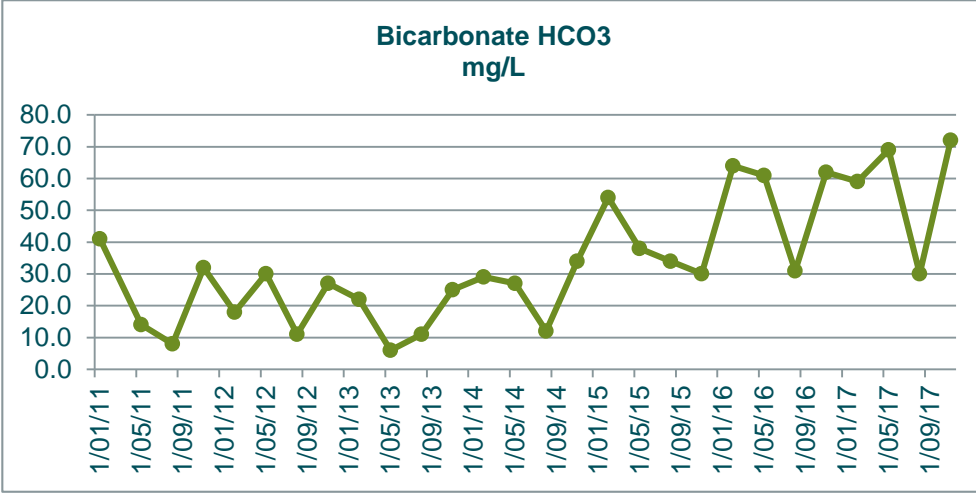
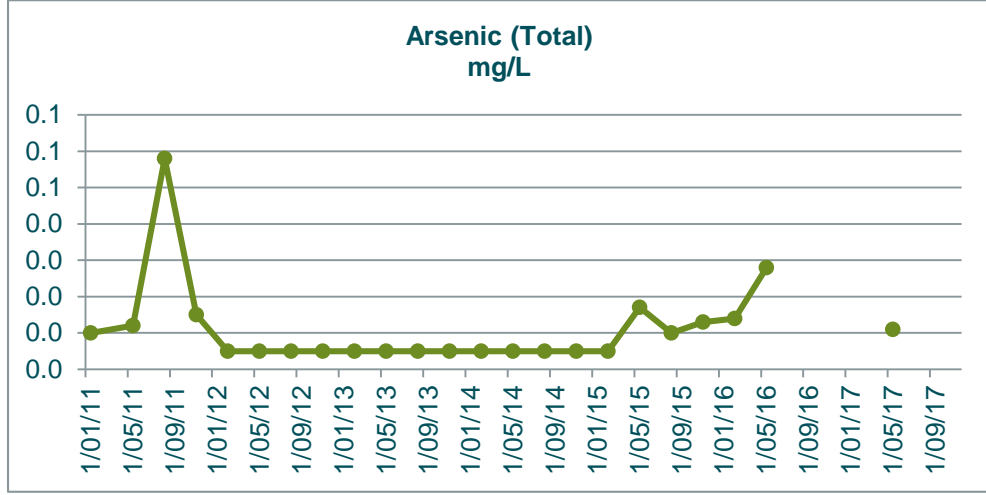
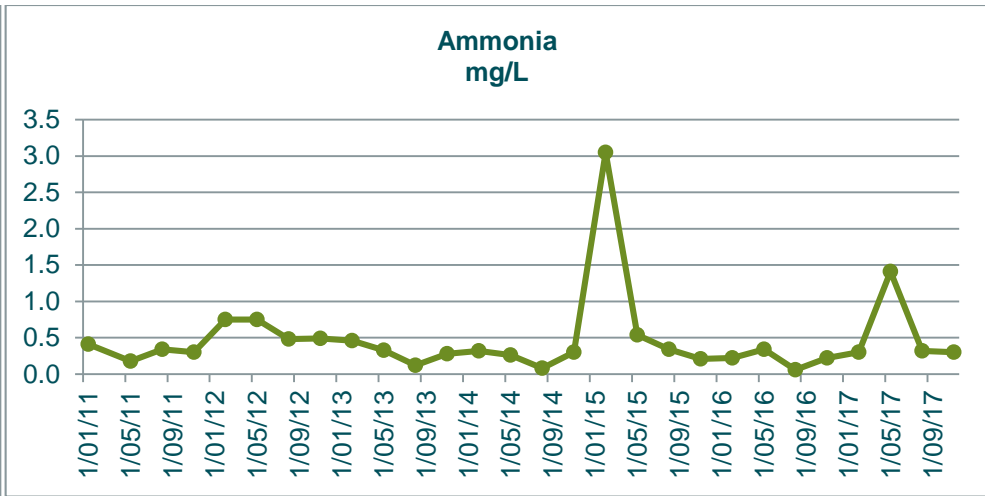
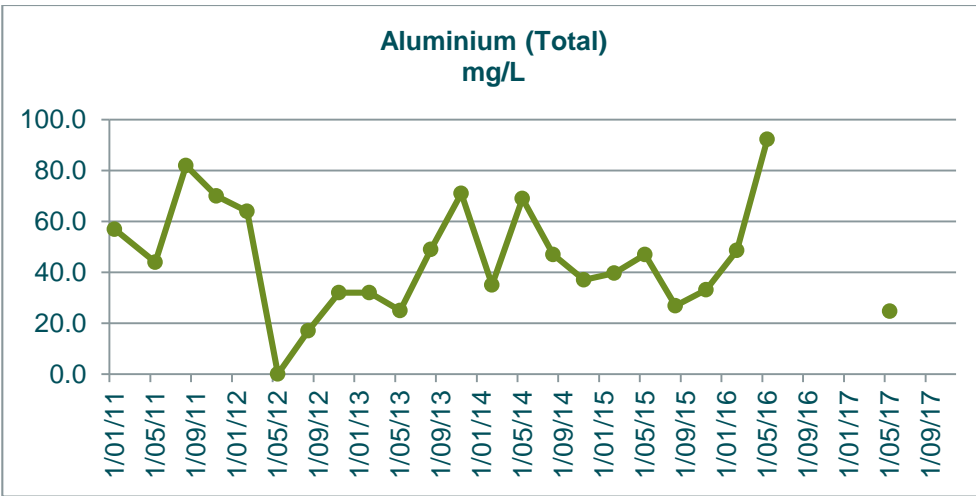
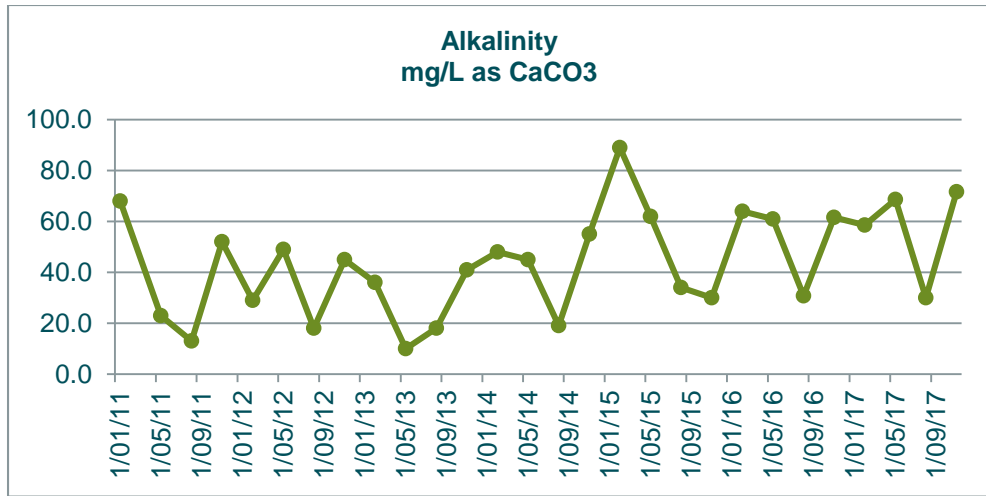
GW5	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L
1/02/11	6.0	7.1	0.1	0.0	4.0	1.0	0.0	1.2	22.0	0.0	0.0	0.0	99.0	0.0	4.9	0.1	12.0	0.0	1.0	3.1	0.0	0.2	0.1	0.2	0.3	5.4		0.2	5.0	216.0	9.4	7.5	22.3	0.1	3.4	50.0	0.0
11/05/11	2.0	5.4	0.1	0.0	1.0	1.0	0.0	2.2	19.0	0.0	0.0	0.0	111.0	0.0	5.8	0.0	8.1	0.0	1.4	2.8	0.0	0.5	0.1	0.5	0.7	3.8		0.3	5.0	317.0	11.0	6.8	21.0	0.1	1.0	47.0	0.1
10/08/11	4.0	8.4	0.1	0.0	2.0	2.4	0.0	0.7	19.0	0.0	0.0	0.0	106.0	0.0	4.7	0.0	12.0	0.0	1.2	2.7	0.0	0.3	0.1	0.3	0.5	4.8		0.2	5.0	303.0	13.0	5.2	20.6	0.2	1.0	48.0	0.0
9/11/11	5.0	3.1	0.0	0.0	3.0	6.0	0.0	0.7	18.0	0.0	0.0	0.0	90.0	0.0	4.7	0.1	3.7	0.0	2.2	0.9	0.0	0.3	0.0	0.3	0.4	5.1		0.2	5.0	310.0	7.3	7.4	21.8	0.1	0.6	48.0	0.0
7/02/12	2.0	4.2	0.0	0.0	1.0	2.1	0.0	0.5	20.0	0.0	0.0	0.0	97.0	0.0	4.4	0.0	7.5	0.0	1.3	2.2	0.0	0.3	0.0	0.3	0.4	4.7		0.1	5.0	282.0	14.0	7.5	21.6	0.1	0.1	46.0	0.0
9/05/12	3.0	12.0	0.0	0.0	2.0	1.0	0.0	0.4	21.0	0.0	0.0	0.0	96.0	0.0	5.4	0.0	19.0	0.0	1.2	5.3	0.0	0.3	0.0	0.3	0.4	4.9		0.1	5.0	298.0	11.0	6.5	21.3	0.1	0.7	56.0	0.3
7/08/12	3.0	9.5	0.0	0.0	2.0	1.0	0.0	1.2	16.0	0.0	0.0	0.0	91.0	0.0	5.1	0.0	8.3	0.0	1.5	1.7	0.0	0.4	0.0	0.4	0.4	4.6		0.1	5.0	289.0	8.7	6.3	20.7	0.1	0.2	37.0	0.2
14/11/12	4.0	8.6	0.1	0.0	2.0	1.0	0.0	0.6	18.0	0.0	0.0	0.0	95.4	0.0	4.9	0.1	10.0	0.0	0.8	3.1	0.0	0.3	0.0	0.3	0.7	5.0		0.7	5.0	226.0	10.0	5.3	22.5	0.5	7.3	56.0	0.4
14/02/13	2.0	9.2	0.0	0.0	1.0	1.0	0.0	0.4	20.0	0.0	0.0	0.0	95.0	0.0	4.9	0.1	8.6	0.0	1.2	1.0	0.0	0.3	0.0	0.3	0.3	4.6		0.1	5.0	256.0	12.0	6.0	21.5	0.1	0.6	43.0	0.1
15/05/13	2.0	12.0	0.2	0.0	1.0	1.8	0.0	0.5	15.0	0.0	0.0	0.0	88.0	0.0	5.1	0.0	13.0	0.0	1.0	2.7	0.0	0.3	0.0	0.3	0.5	4.5		0.1	5.0	209.0	11.0	6.1	21.4	0.2	0.6	113.0	0.1
7/08/13	2.0	14.0	0.1	0.0	1.0	1.0	0.0	0.4	16.0	0.0	0.0	0.0	84.0	0.0	5.2	0.0	17.0	0.0	1.0	4.1	0.0	0.3	0.0	0.3	0.6	4.7		0.5	5.0	236.0	12.0	7.4	21.1	0.3	0.3	107.0	0.1
13/11/13	4.0	15.0	0.1	0.0	2.0	1.5	0.0	0.5	18.0	0.0	0.0	0.0	101.0	0.0	4.1	0.0	21.0	0.0	1.0	6.1	0.0	0.3	0.0	0.3	0.7	4.8		0.4	5.0	196.0	13.0	7.3	22.5	0.4	0.3	67.0	0.1
12/02/14	6.0	34.0	0.1	0.0	4.0	2.7	0.0	0.5	17.0	0.0	0.0	0.0	83.0	0.1	5.3	0.0	61.0	0.1	0.7	20.0	0.1	0.3	0.0	0.3	0.9	5.2		0.6	5.0	148.0	11.0	6.0	22.2	0.7	0.4	108.0	0.7
14/05/14	5.0	23.0	0.0	0.0	3.0	1.5	0.0	0.5	25.0	0.0	0.0	0.0	100.0	0.1	6.1	0.0	50.0	0.0	0.8	9.4	0.0	1.0	0.0	1.0	1.1	4.8		0.2	5.0	139.0	12.0	5.3	20.5	0.1	0.5	58.0	0.4
13/08/14	4.0	55.0	0.0	0.0	2.0	2.4	0.0	0.4	20.0	0.0	0.0	0.0	109.0	0.1	6.1	0.0	68.2	0.1	1.2	14.0	0.1	0.7	0.0	0.7	0.9	5.3		0.4	5.0	147.0	15.0	7.4	20.9	0.2	0.5	101.0	0.7
11/11/14	2.0	7.4	0.0	0.0	1.0	3.0	0.0	0.5	17.0	0.0	0.0	0.0	109.0	0.0	5.7	0.0	10.0	0.0	1.5	1.9	0.0	0.5	0.0	0.5	0.8	4.8		0.2	5.0	178.0	15.0	7.6	21.4	0.3	0.4	70.0	0.2
10/02/15	1.0	25.3	0.0	0.0	1.0	1.8	0.0	0.8	18.0	0.0	0.0	0.0	86.0	0.0	6.2	0.0	10.5	0.0	1.1	1.8	0.0	0.7	0.0	0.7	1.1	4.8		0.1	5.0	191.0	9.9	6.6	21.6	0.4	0.5	65.0	0.0
12/05/15	2.0	6.6	0.0	0.0	1.0	3.0	0.0	0.9	16.0	0.0	0.0	0.0	85.0	0.0	6.3	0.0	6.3	0.0	1.4	1.3	0.0	0.9	0.0	0.9	1.3	4.9		0.1	5.0	219.0	11.0	5.5	21.5	0.4	2.4	50.0	0.1
12/08/15	2.0	15.2	0.0	0.0	2.0	1.8	0.0	0.9	16.0	0.0	0.0	0.0	89.0	0.0	6.3	0.0	20.9	0.0	1.6	4.1	0.0	0.6	0.0	0.6	1.2	4.7		0.2	5.0	235.0	12.0	5.3	21.0	0.6	0.9	65.0	0.1
11/11/15	1.0	9.5	0.0	0.0	1.0	1.0	0.0	1.3	13.0	0.0	0.0	0.0	85.0	0.0	6.0	0.0	12.1	0.0	1.6	2.7	0.0	1.5	0.0	1.5	1.8	4.6		0.1	5.0	227.0	9.7	4.7	21.4	0.3	1.0	63.0	0.1
9/02/16	4.0	20.7	0.3	0.0	4.0	1.8	0.0	1.4	26.0	0.0	0.0	0.0	120.0	0.1	4.8	0.0	27.0	0.0	2.0	5.8	0.0	0.3	0.0	0.3	1.3	5.1		0.2	5.0	234.0	15.8	6.2	22.6	1.0	1.3	94.0	0.1
10/05/16	3.0	23.5	0.0	0.0	3.0	1.0	0.0	0.5	20.0	0.0	0.0	0.0	94.0	0.1	4.8	0.0	32.1	0.0	1.2	5.7	0.0	0.3	0.0	0.3	1.1	4.8		0.4	5.0	247.0	12.0	5.9	21.5	0.8	0.4	83.0	0.1
10/08/16	2.4		0.0		2.0	2.1		1.0	16.0				91.7		4.7	0.0			1.5			0.4	0.0	0.4	0.7	4.6		0.1	5.0	329.0	12.8	5.5	21.0	0.3	0.8	74.0	
8/11/16	1.6		0.0		2.0	1.0		0.5					92.4		4.5	0.0			1.4			0.4	0.0	0.4	0.7	4.5		0.2	5.0	377.3	12.9	6.6	21.7	0.3	0.6	87.5	
8/02/17	2.9		0.0		3.0	1.0		0.5	20.0				96.3		5.2	0.0			1.3			0.5	0.0	0.5	1.0	4.4		0.4	5.0	417.9	12.3	6.2	21.6	0.6	0.5	122.8	
9/05/17	1.2	11.6	0.0	0.0	1.0	1.2	0.0	2.0	17.0	0.0	0.0	0.0	104.3	0.0	5.5	0.0	15.6	0.0	2.3	3.0	0.0	3.7	0.0	3.7	4.1	4.4		0.2	5.0	414.8	10.4	4.9	20.9	0.5	1.0	85.3	0.1
9/08/17	3.0		0.0		3.0	1.2		1.0	20.0				102.3		5.6	0.0			1.5			1.2	0.0	1.2	1.9	4.5		0.3	5.0	459.1	12.4	6.5	20.7	0.7	1.0	70.1	
8/11/17	4.9		0.0		5.0	1.5		1.1	16.0				73.8		4.9	0.0			1.3			0.6	0.0	0.6	1.1	4.7		0.3	5.0	423.8	9.0	4.4	21.1	0.5	1.3	71.0	
2017 Min	1.2	11.6	0.0	0.0	1.0	1.2	0.0	0.5	16.0	0.0	0.0	0.0	73.8	0.0	4.9	0.0	15.6	0.0	1.3	3.0	0.0	0.5	0.0	0.5	1.0	4.4		0.2	5.0	414.8	9.0	4.4	20.7	0.5	0.5	70.1	0.1
2017 Max	4.9	11.6	0.0	0.0	5.0	1.5	0.0	2.0	20.0	0.0	0.0	0.0	104.3	0.0	5.6	0.0	15.6	0.0	2.3	3.0	0.0	3.7	0.0	3.7	4.1	4.7		0.4	5.0	459.1	12.4	6.5	21.6	0.7	1.3	122.8	0.1
2017 Mean	3.0	11.6	0.0	0.0	3.0	1.3	0.0	1.2	18.3	0.0	0.0	0.0	94.2	0.0	5.3	0.0	15.6	0.0	1.6	3.0	0.0	1.5	0.0	1.5	2.0	4.5		0.3	5.0	428.9	11.0	5.5	21.1	0.6	1.0	87.3	0.1

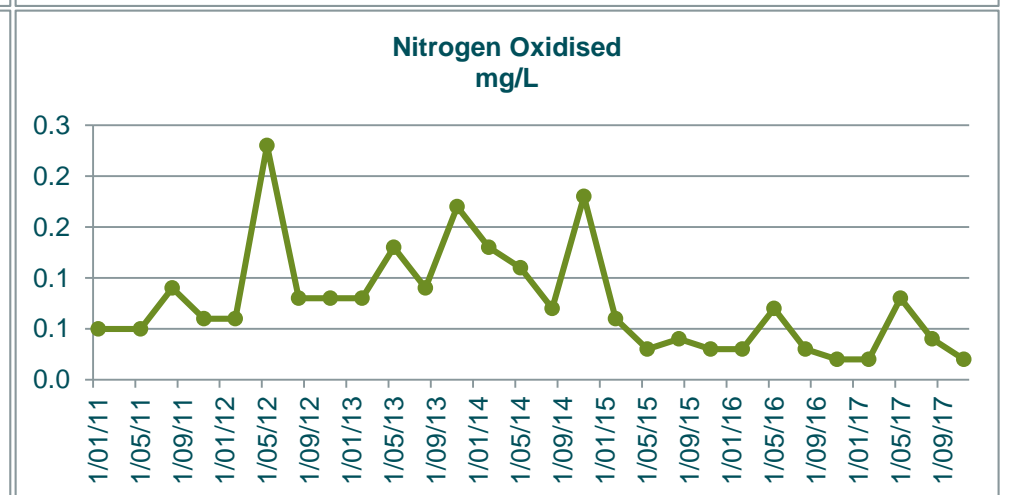
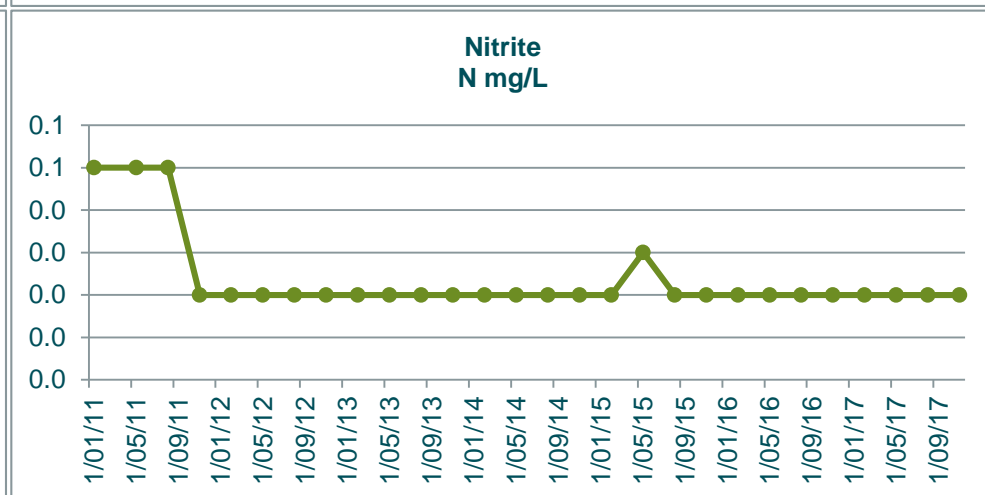
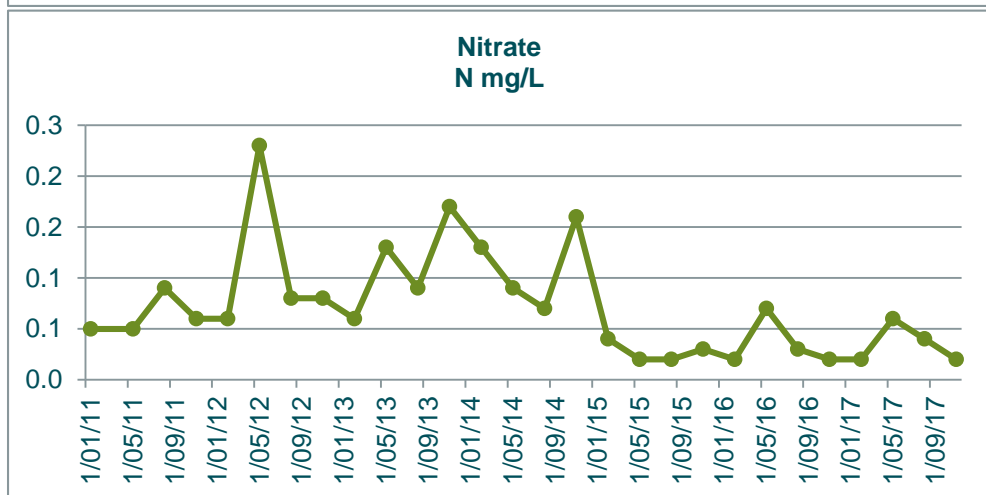
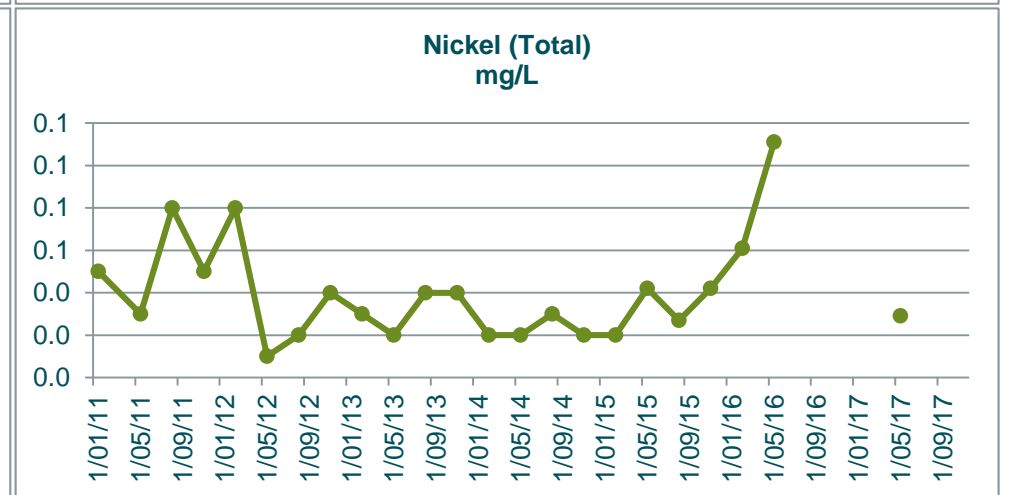
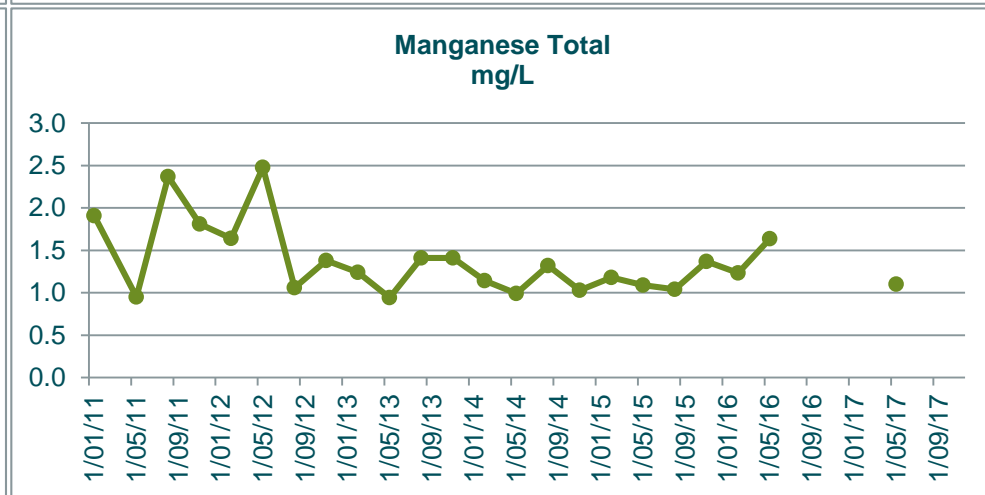
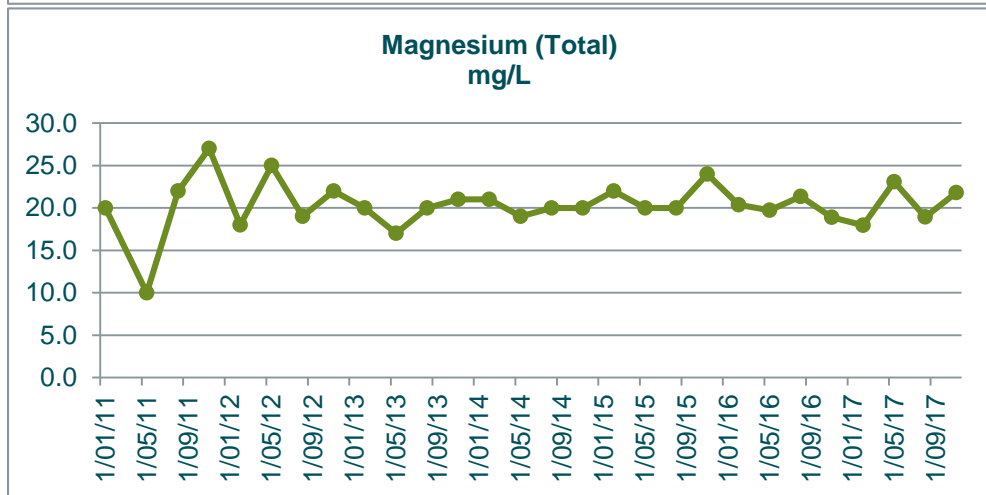
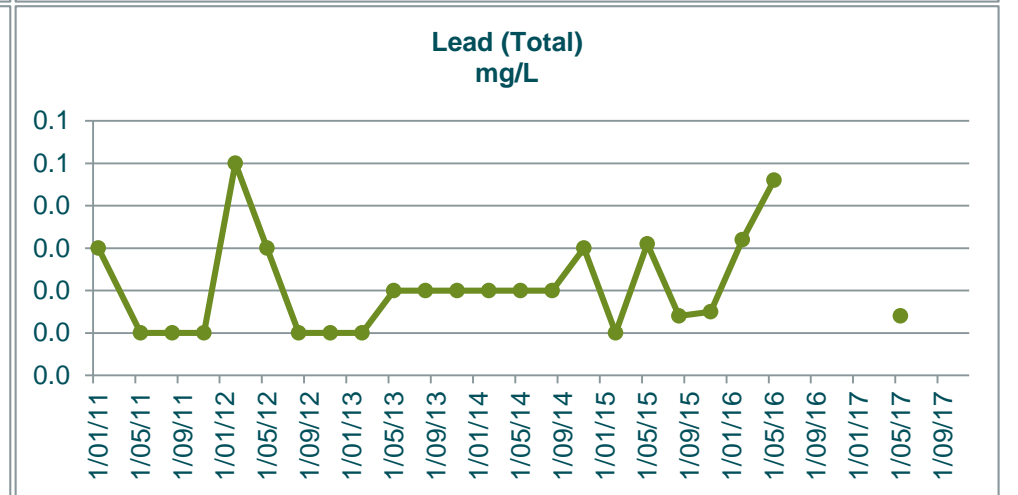
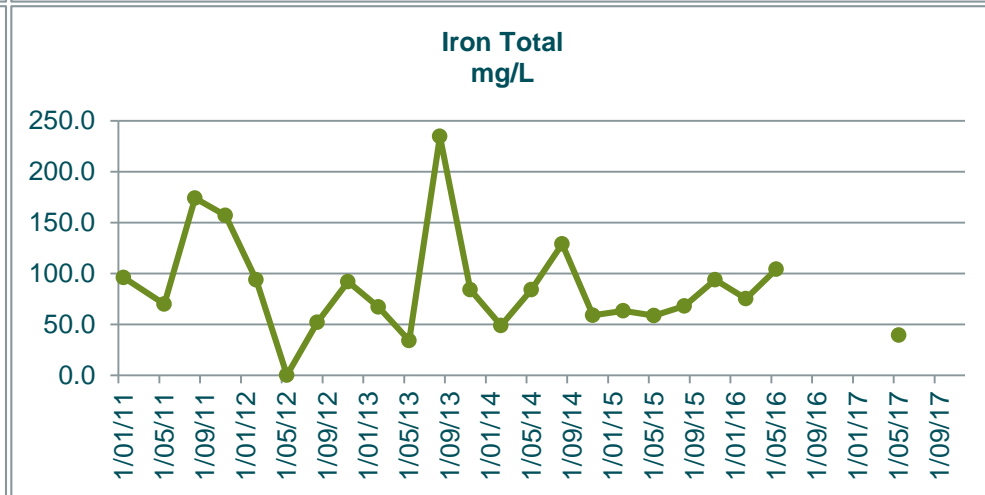
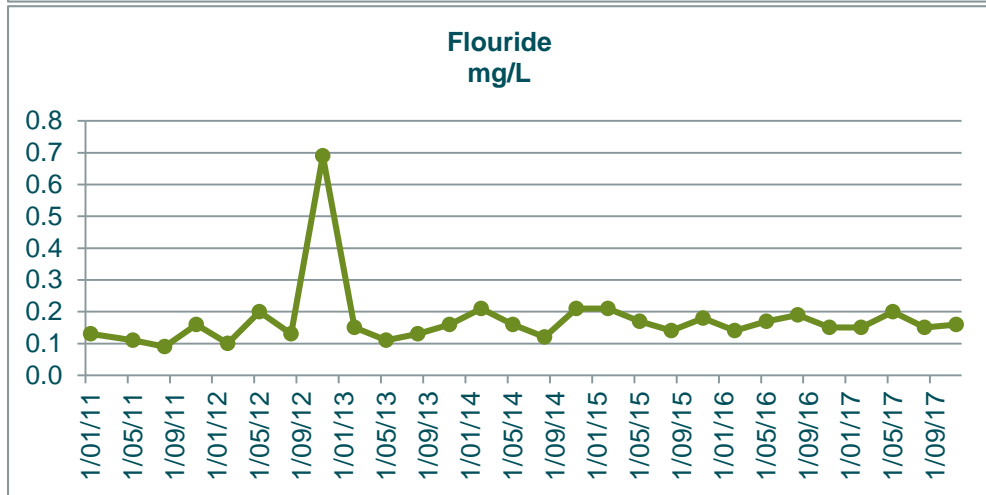
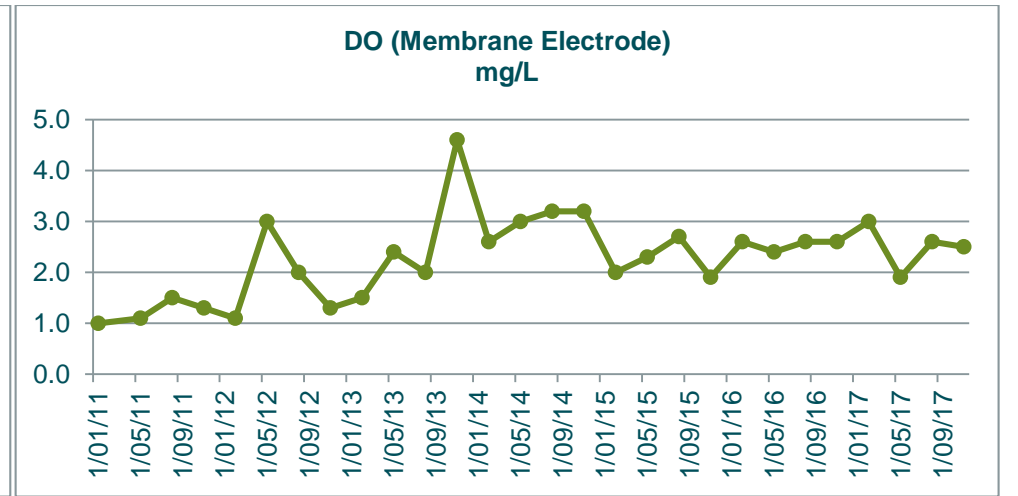
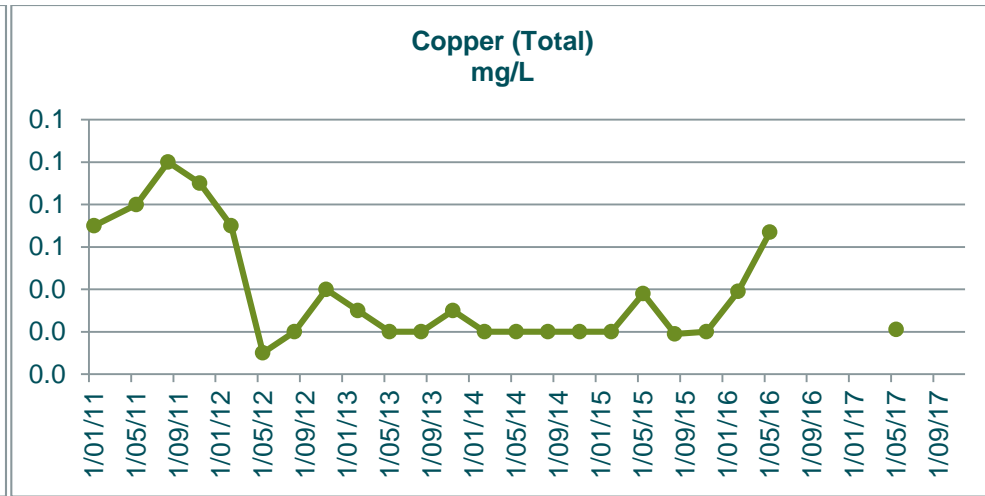
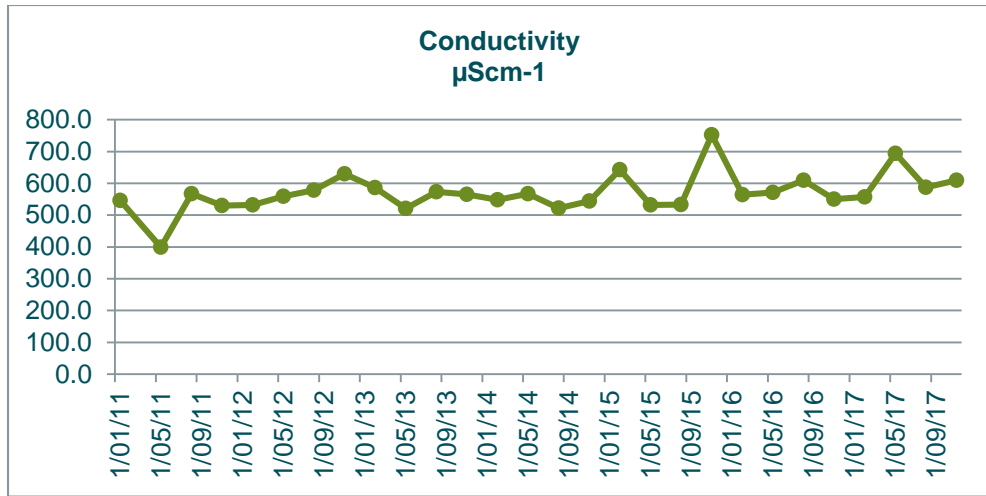


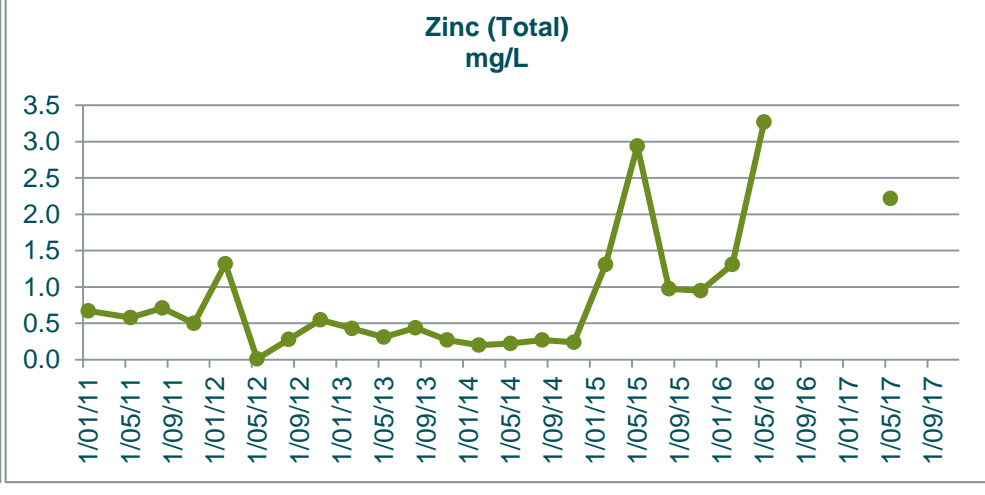
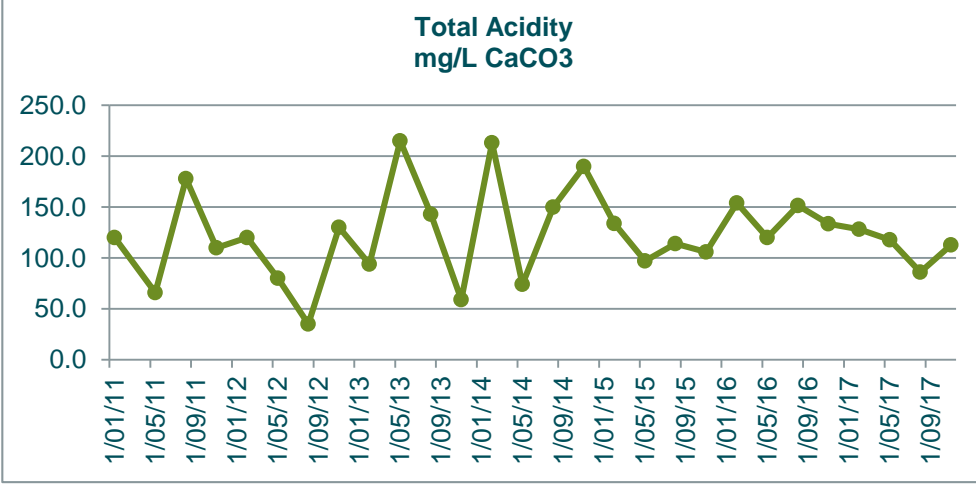
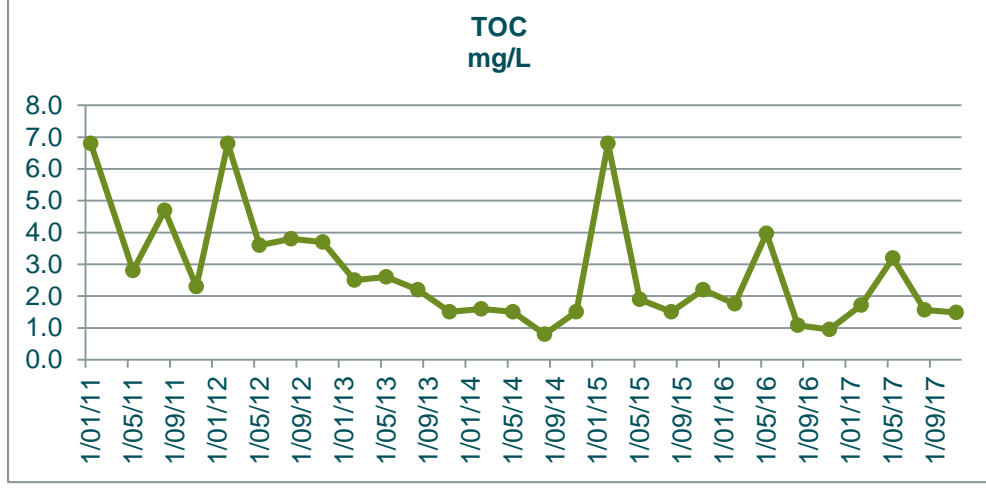
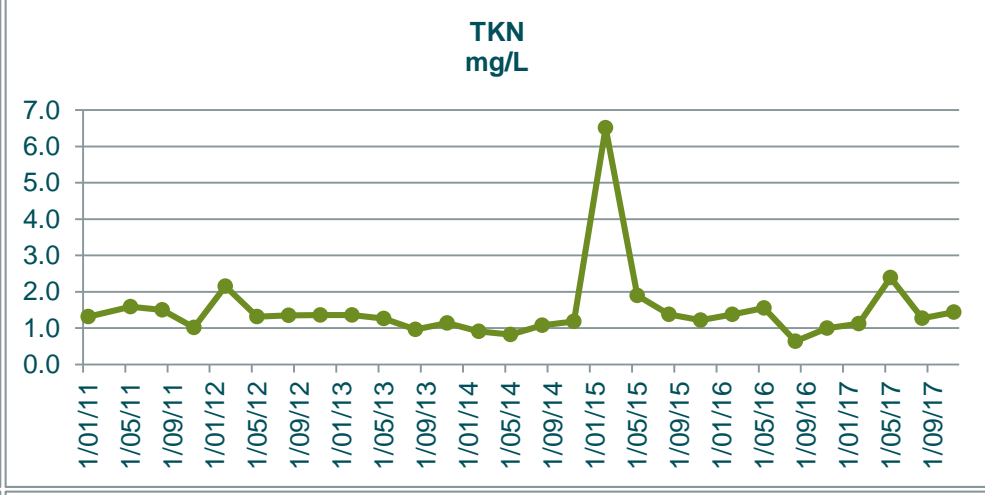
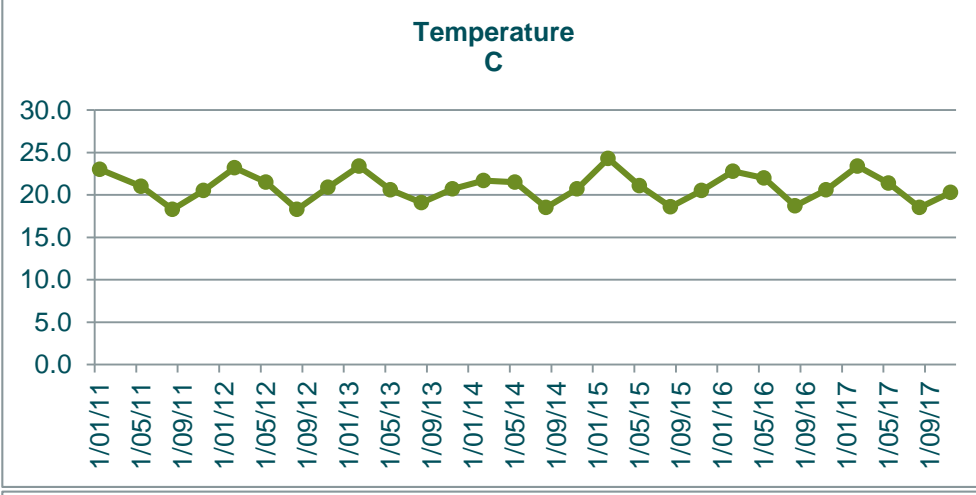
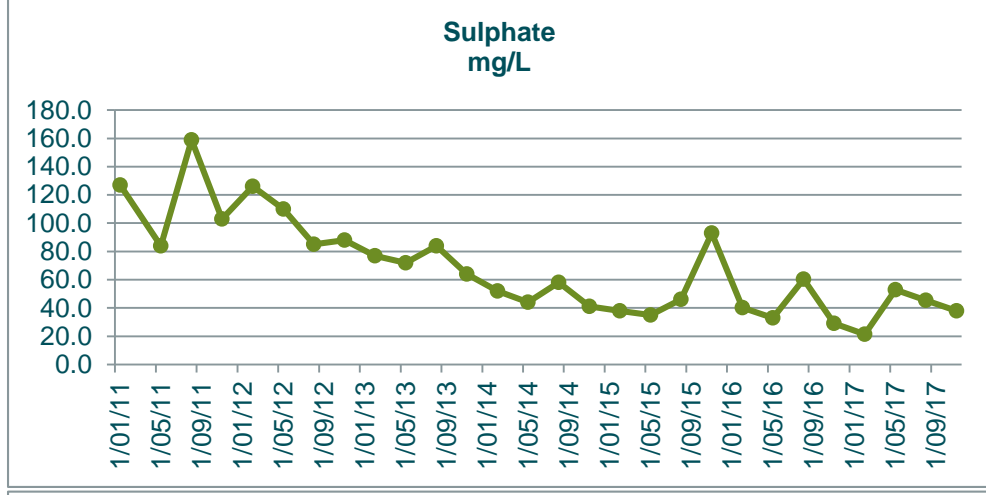
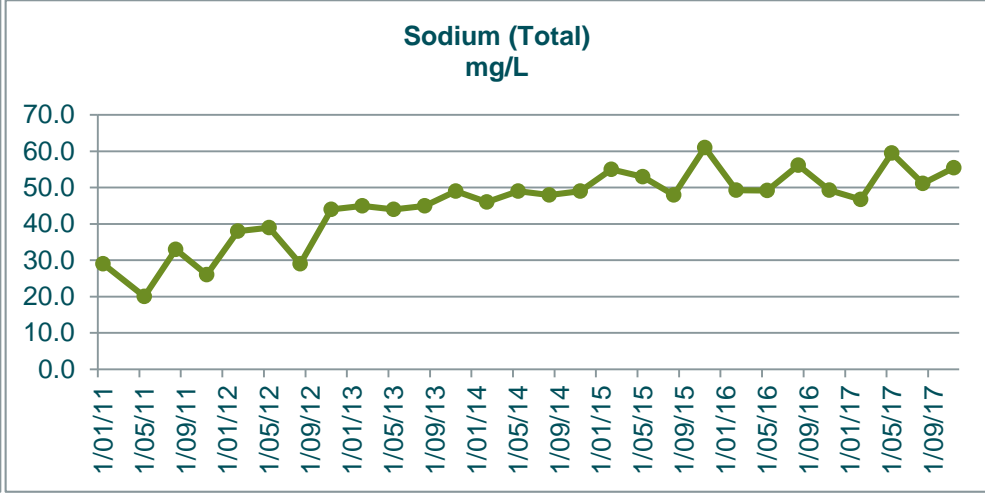
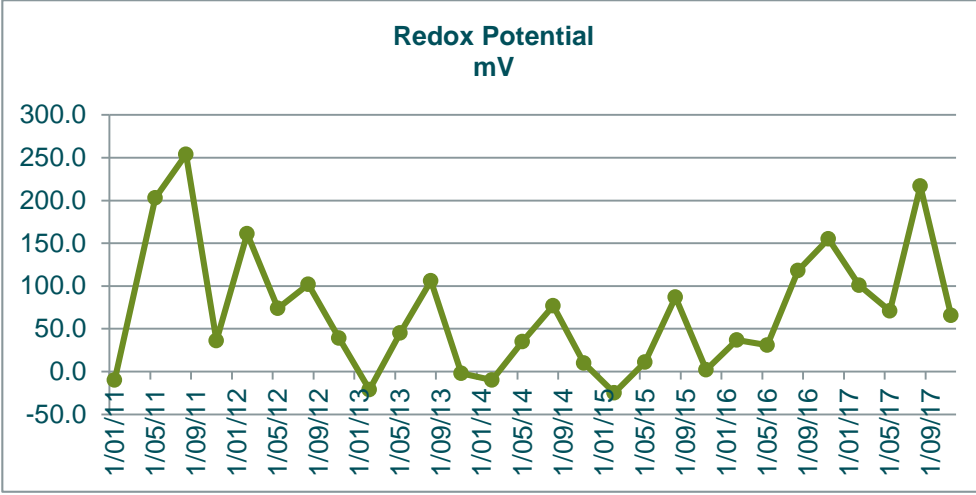
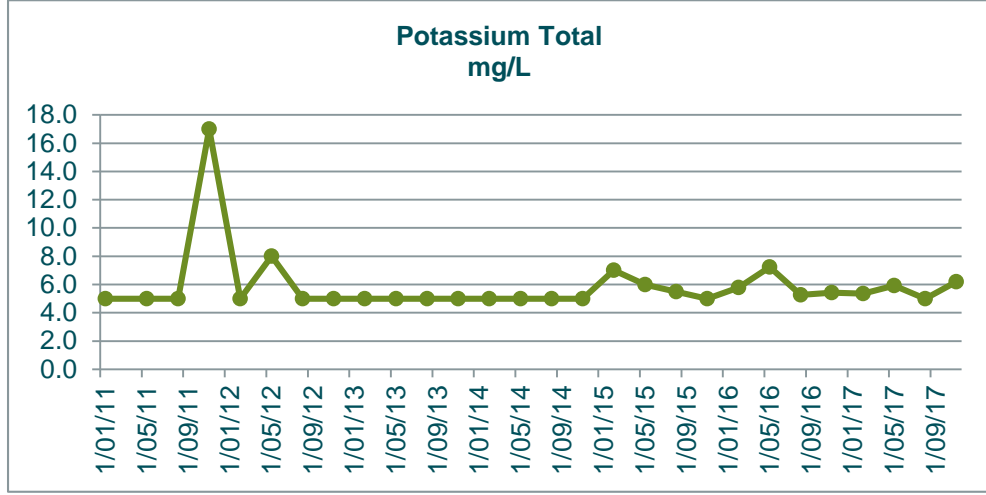
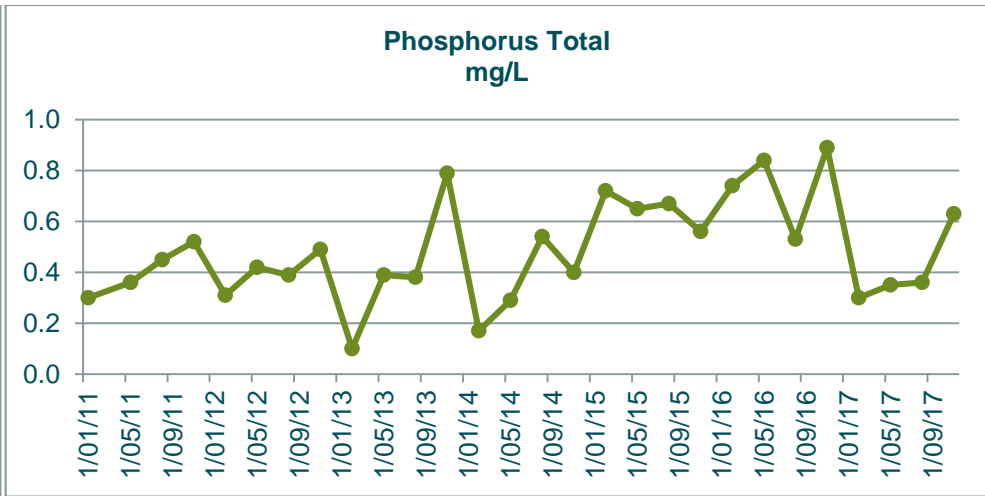
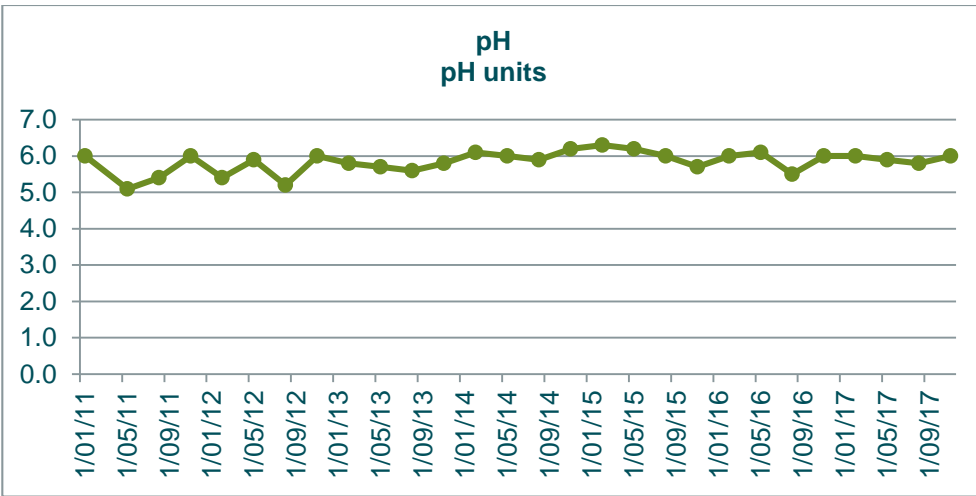
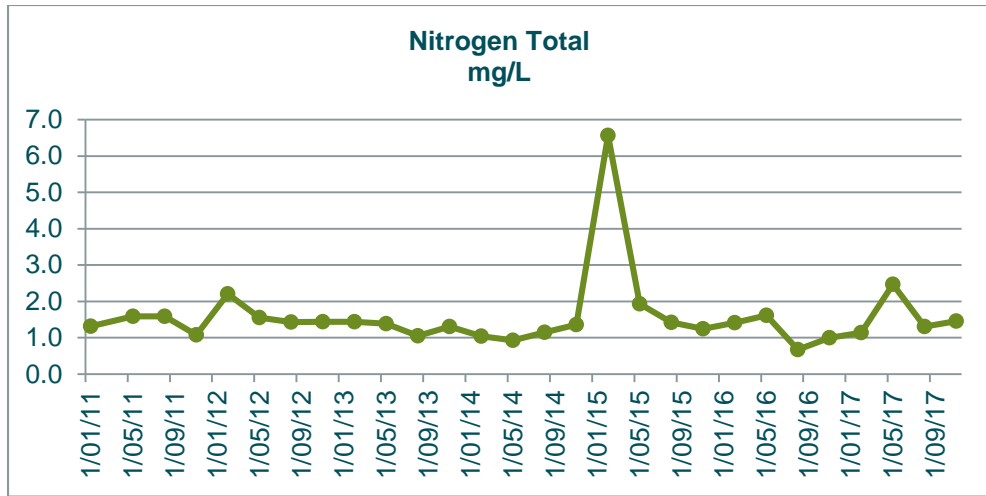




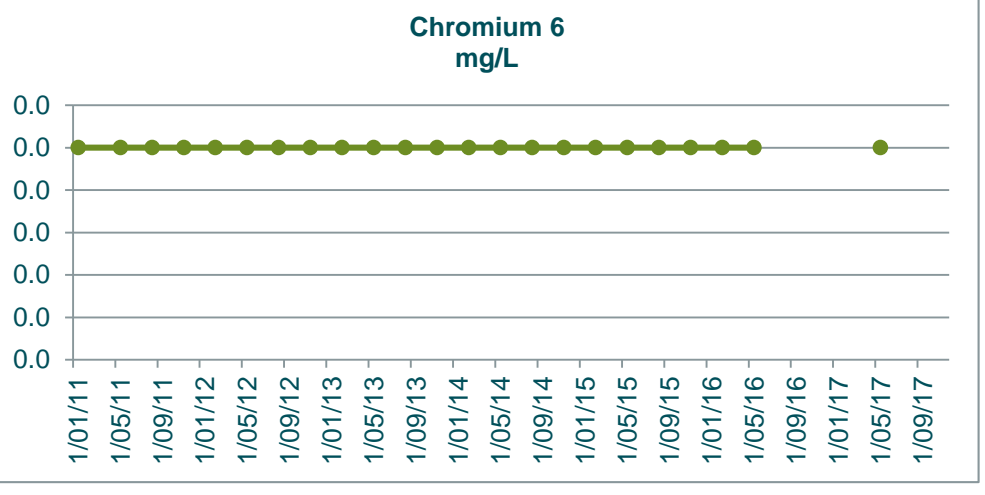
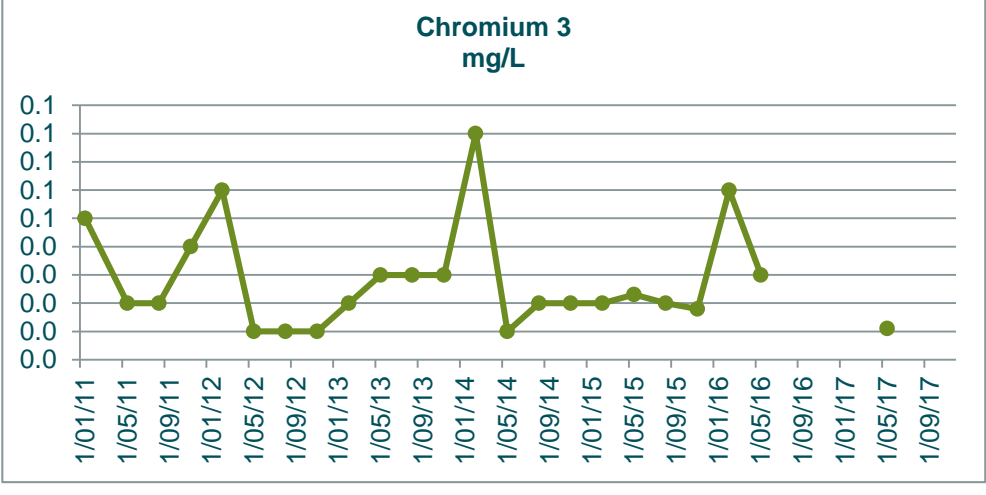
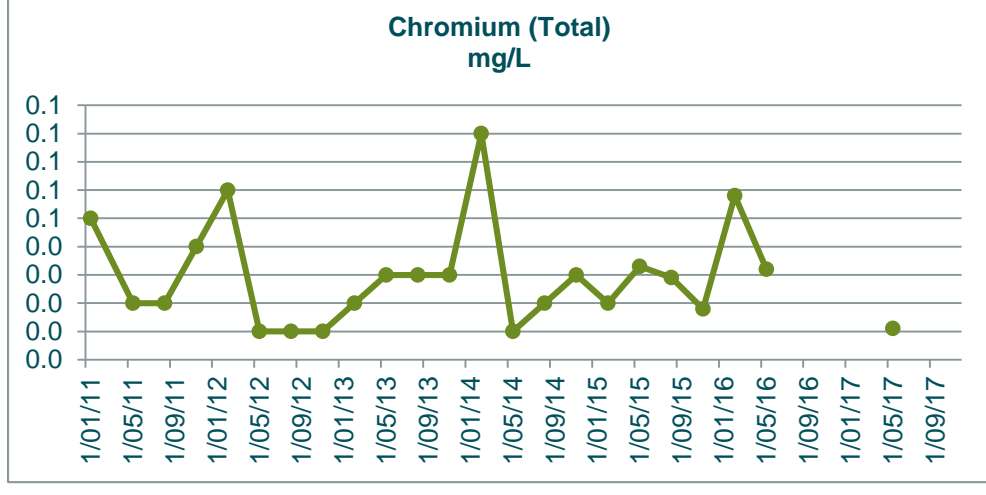
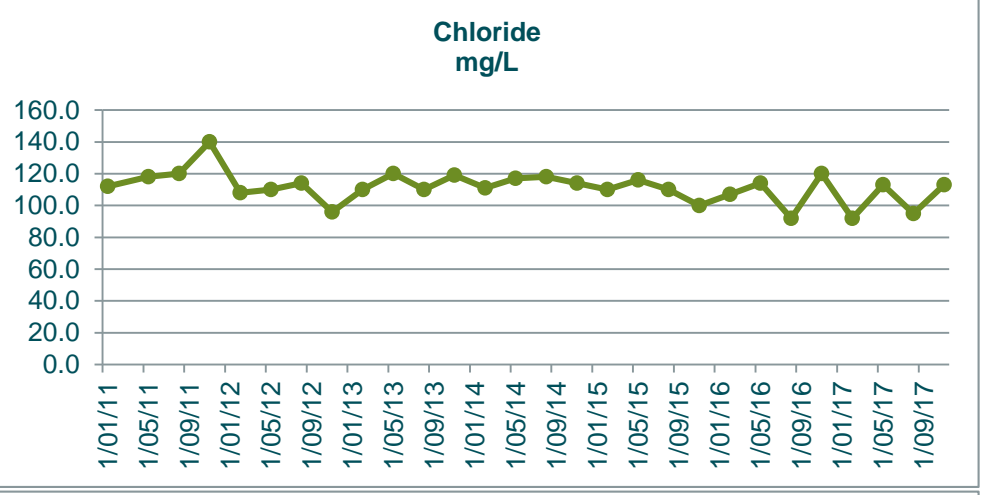
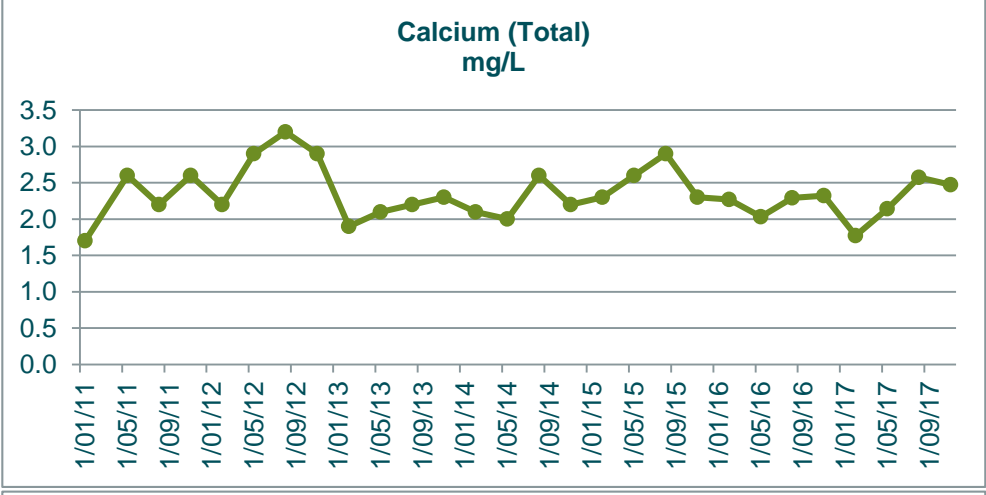
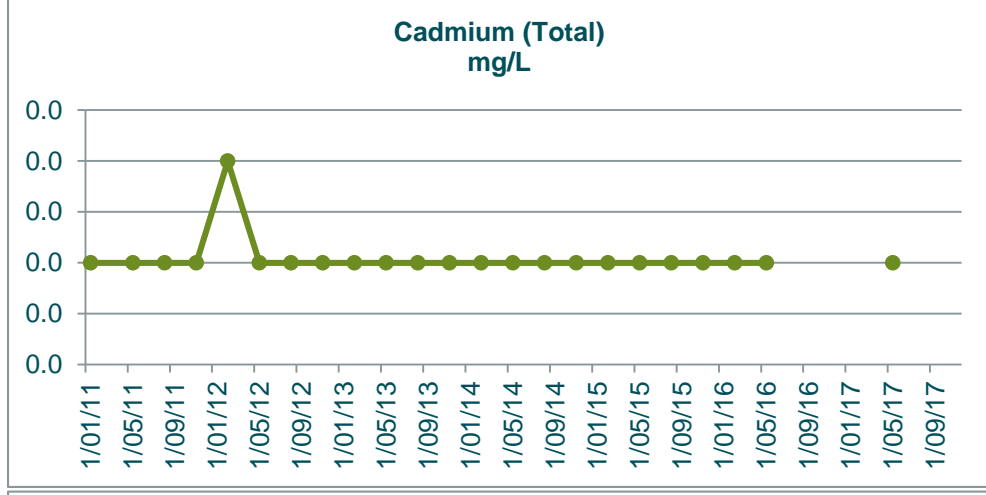
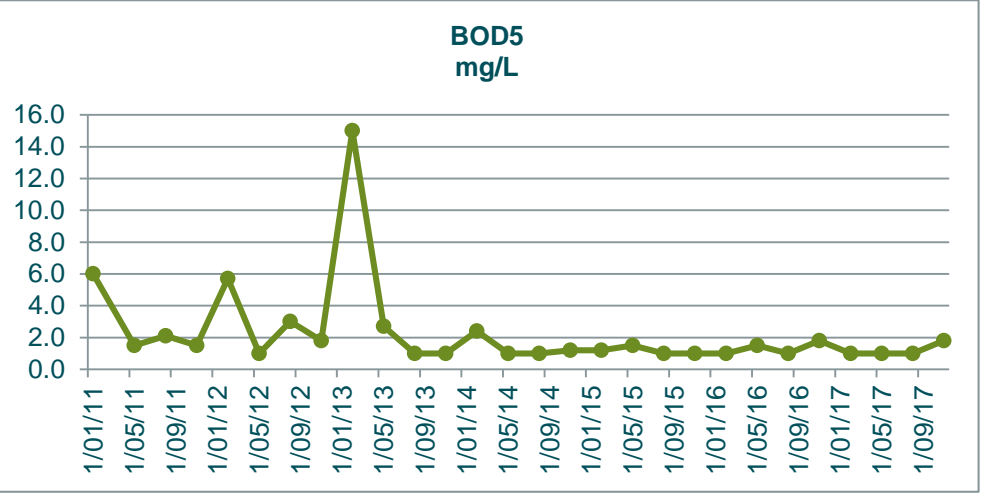
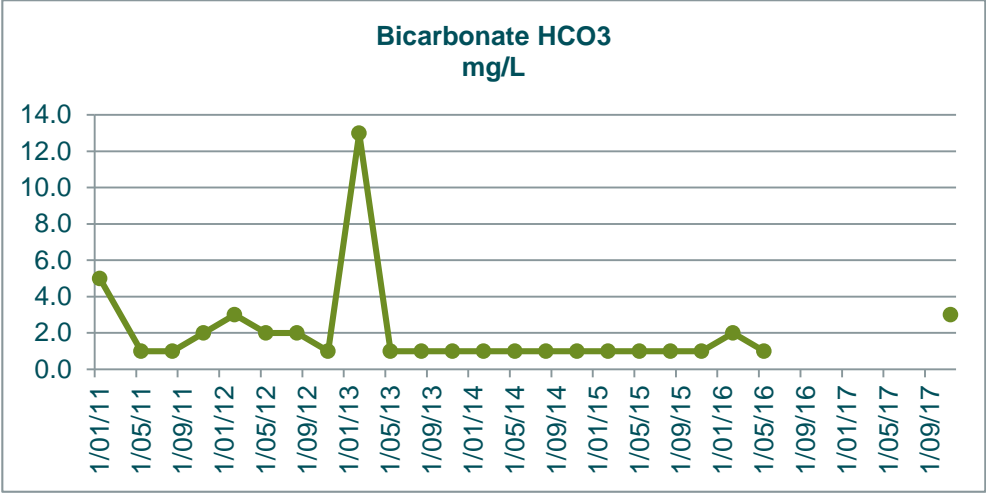
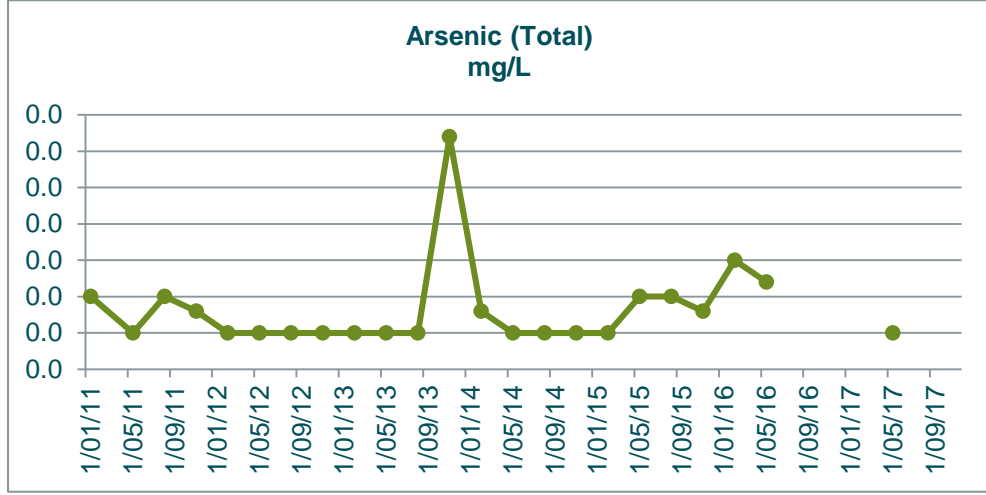
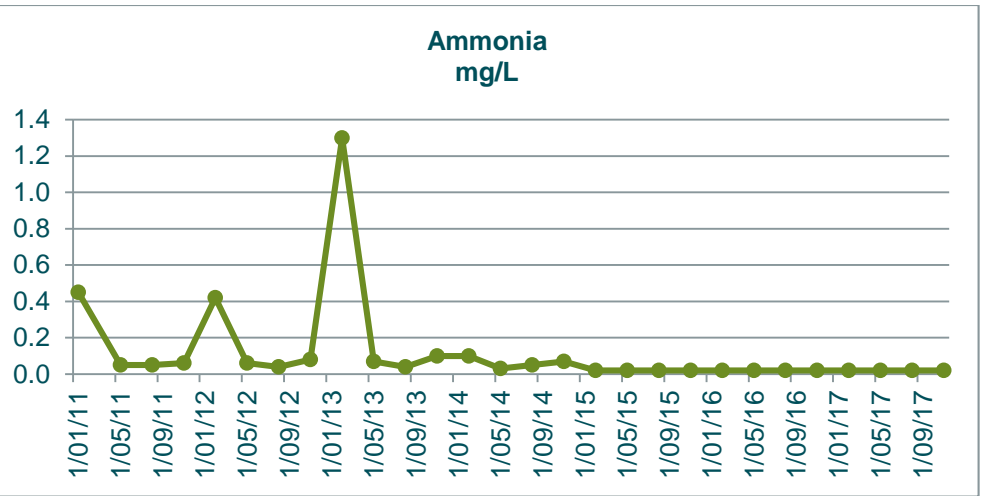
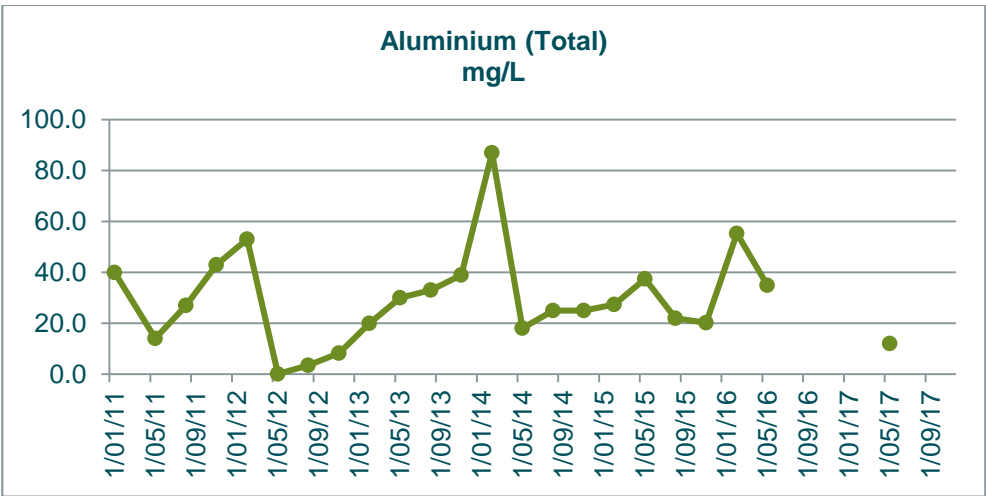
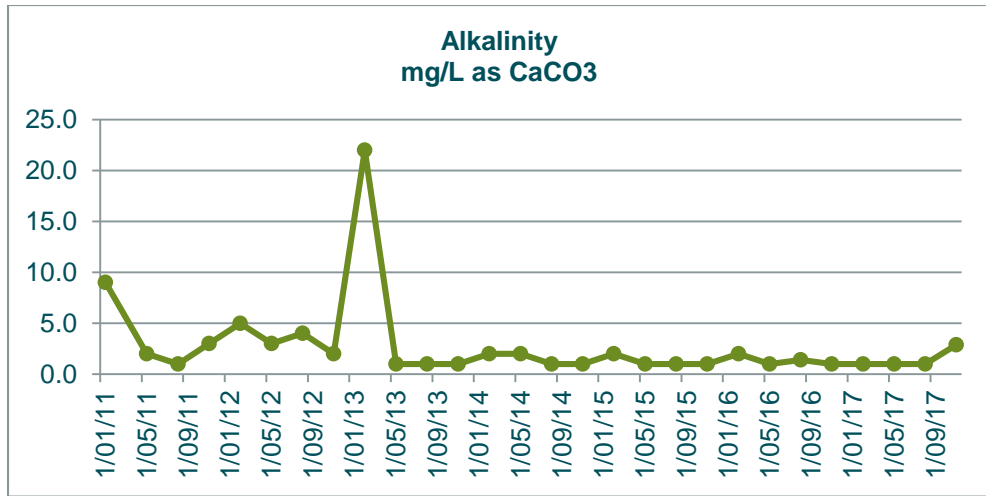
GW6	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L
31/01/11	68.0	57.0	0.4	0.0	41.0	14.0	0.0	19.0	500.0	0.1	0.1	0.0	546.0	0.1	1.0	0.1	96.0	0.0	20.0	1.9	0.1	0.1	0.1	0.1	1.3	6.0		0.3	5.0	-10.0	29.0	127.0	23.0	1.3	6.8	120.0	0.7
10/05/11	23.0	44.0	0.2	0.0	14.0	3.5	0.0	17.0	44.0	0.1	0.1	0.0	399.0	0.1	1.1	0.1	70.0	0.0	10.0	1.0	0.0	0.1	0.1	0.1	1.6	5.1		0.4	5.0	203.0	20.0	84.0	21.0	1.6	2.8	66.0	0.6
9/08/11	13.0	82.0	0.3	0.1	8.0	10.0	0.0	20.0	88.0	0.1	0.1	0.0	567.0	0.1	1.5	0.1	174.0	0.0	22.0	2.4	0.1	0.1	0.1	0.1	1.6	5.4		0.5	5.0	254.0	33.0	159.0	18.3	1.5	4.7	178.0	0.7
8/11/11	52.0	70.0	0.3	0.0	32.0	7.8	0.0	20.0	140.0	0.1	0.1	0.0	530.0	0.1	1.3	0.2	157.0	0.0	27.0	1.8	0.1	0.1	0.0	0.1	1.1	6.0		0.5	17.0	36.0	26.0	103.0	20.5	1.0	2.3	110.0	0.5
6/02/12	29.0	64.0	0.8	0.0	18.0	35.0	0.0	30.0	86.0	0.1	0.1	0.0	532.0	0.1	1.1	0.1	94.0	0.1	18.0	1.6	0.1	0.1	0.0	0.1	2.2	5.4		0.3	5.0	161.0	38.0	126.0	23.2	2.2	6.8	120.0	1.3
8/05/12	49.0	0.0	0.8	0.0	30.0	14.0	0.0	20.0	70.0	0.0	0.0	0.0	559.0	0.0	3.0	0.2	0.0	0.0	25.0	2.5	0.0	0.2	0.0	0.2	1.6	5.9		0.4	8.0	74.0	39.0	110.0	21.5	1.3	3.6	80.0	0.0
6/08/12	18.0	17.0	0.5	0.0	11.0	6.9	0.0	17.0	84.0	0.0	0.0	0.0	578.0	0.0	2.0	0.1	52.0	0.0	19.0	1.1	0.0	0.1	0.0	0.1	1.4	5.2		0.4	5.0	102.0	29.0	85.0	18.3	1.4	3.8	35.0	0.3
13/11/12	45.0	32.0	0.5	0.0	27.0	8.4	0.0	20.0	290.0	0.0	0.0	0.0	630.0	0.0	1.3	0.7	92.0	0.0	22.0	1.4	0.0	0.1	0.0	0.1	1.4	6.0		0.5	5.0	39.0	44.0	88.0	20.9	1.4	3.7	130.0	0.6
13/02/13	36.0	32.0	0.5	0.0	22.0	5.7	0.0	18.0	92.0	0.0	0.0	0.0	586.0	0.0	1.5	0.2	67.0	0.0	20.0	1.2	0.0	0.1	0.0	0.1	1.4	5.8		0.1	5.0	-21.0	45.0	77.0	23.4	1.4	2.5	94.0	0.4
14/05/13	10.0	25.0	0.3	0.0	6.0	3.9	0.0	21.0	91.0	0.0	0.0	0.0	521.0	0.0	2.4	0.1	34.0	0.0	17.0	0.9	0.0	0.1	0.0	0.1	1.4	5.7		0.4	5.0	45.0	44.0	72.0	20.6	1.3	2.6	215.0	0.3
6/08/13	18.0	49.0	0.1	0.0	11.0	3.0	0.0	18.0	91.0	0.0	0.0	0.0	573.0	0.0	2.0	0.1	235.0	0.0	20.0	1.4	0.0	0.1	0.0	0.1	1.1	5.6		0.4	5.0	106.0	45.0	84.0	19.1	1.0	2.2	143.0	0.4
12/11/13	41.0	71.0	0.3	0.0	25.0	4.5	0.0	17.0	102.0	0.1	0.1	0.0	565.0	0.0	4.6	0.2	84.0	0.0	21.0	1.4	0.0	0.2	0.0	0.2	1.3	5.8		0.8	5.0	-2.0	49.0	64.0	20.7	1.1	1.5	59.0	0.3
11/02/14	48.0	35.0	0.3	0.0	29.0	2.7	0.0	16.0	101.0	0.0	0.0	0.0	548.0	0.0	2.6	0.2	49.0	0.0	21.0	1.1	0.0	0.1	0.0	0.1	1.0	6.1		0.2	5.0	-10.0	46.0	52.0	21.7	0.9	1.6	213.0	0.2
13/05/14	45.0	69.0	0.3	0.0	27.0	2.7	0.0	15.0	107.0	0.0	0.0	0.0	567.0	0.0	3.0	0.2	84.0	0.0	19.0	1.0	0.0	0.1	0.0	0.1	0.9	6.0		0.3	5.0	35.0	49.0	44.0	21.5	0.8	1.5	74.0	0.2
12/08/14	19.0	47.0	0.1	0.0	12.0	1.2	0.0	16.0	106.0	0.0	0.0	0.0	522.0	0.0	3.2	0.1	129.0	0.0	20.0	1.3	0.0	0.1	0.0	0.1	1.2	5.9		0.5	5.0	77.0	48.0	58.0	18.5	1.1	0.8	150.0	0.3
10/11/14	55.0	37.0	0.3	0.0	34.0	6.3	0.0	15.0	115.0	0.0	0.0	0.0	544.0	0.0	3.2	0.2	59.0	0.0	20.0	1.0	0.0	0.2	0.0	0.2	1.4	6.2		0.4	5.0	10.0	49.0	41.0	20.7	1.2	1.5	190.0	0.2
9/02/15	89.0	39.7	3.1	0.0	54.0	15.0	0.0	19.0	120.0	0.0	0.0	0.0	643.0	0.0	2.0	0.2	63.5	0.0	22.0	1.2	0.0	0.0	0.0	0.1	6.6	6.3		0.7	7.0	-25.0	55.0	38.0	24.3	6.5	6.8	134.0	1.3
11/05/15	62.0	47.0	0.5	0.0	38.0	17.0	0.0	18.0	105.0	0.0	0.0	0.0	532.0	0.0	2.3	0.2	58.8	0.0	20.0	1.1	0.0	0.0	0.0	0.0	1.9	6.2		0.7	6.0	11.0	53.0	35.0	21.1	1.9	1.9	97.0	2.9
11/08/15	34.0	26.9	0.3	0.0	34.0	5.4	0.0	17.0	100.0	0.0	0.0	0.0	533.0	0.0	2.7	0.1	68.0	0.0	20.0	1.0	0.0	0.0	0.0	0.0	1.4	6.0		0.7	5.5	87.0	48.0	46.0	18.6	1.4	1.5	114.0	1.0
10/11/15	30.0	33.2	0.2	0.0	30.0	6.0	0.0	31.0	34.0	0.0	0.0	0.0	753.0	0.0	1.9	0.2	93.8	0.0	24.0	1.4	0.0	0.0	0.0	0.0	1.3	5.7		0.6	5.0	2.0	61.0	93.0	20.5	1.2	2.2	106.0	1.0
8/02/16	64.0	48.7	0.2	0.0	64.0	6.0	0.0	17.0	111.0	0.1	0.1	0.0	564.0	0.0	2.6	0.1	75.2	0.0	20.3	1.2	0.1	0.0	0.0	0.0	1.4	6.0		0.7	5.8	37.0	49.3	40.1	22.8	1.4	1.8	154.0	1.3
9/05/16	61.0	92.2	0.3	0.0	61.0	9.6	0.0	16.3	112.0	0.1	0.1	0.0	571.0	0.1	2.4	0.2	104.3	0.0	19.7	1.6	0.1	0.1	0.0	0.1	1.6	6.1		0.8	7.2	31.0	49.2	32.9	22.0	1.6	4.0	120.0	3.3
9/08/16	30.7		0.1		31.0	3.3		19.7	120.0				609.2		2.6	0.2			21.3			0.0	0.0	0.0	0.7	5.5		0.5	5.3	118.0	56.1	60.3	18.7	0.6	1.1	151.6	
7/11/16	61.6		0.2		62.0	3.0		14.6	125.0				549.7		2.6	0.2			18.9			0.0	0.0	0.0	1.0	6.0		0.9	5.4	155.0	49.3	29.0	20.6	1.0	0.9	133.4	
7/02/17	58.6		0.3		59.0	3.6		13.9	85.0				556.8		3.0	0.2			18.0			0.0	0.0	0.0	1.1	6.0		0.3	5.4	101.0	46.7	21.3	23.4	1.1	1.7	128.1	
8/05/17	68.7	24.7	1.4	0.0	69.0	16.5	0.0	21.3	141.0	0.0	0.0	0.0	693.9	0.0	1.9	0.2	39.5	0.0	23.1	1.1	0.0	0.1	0.0	0.1	2.5	5.9		0.4	5.9	71.0	59.5	53.0	21.4	2.4	3.2	117.8	2.2
8/08/17	30.0		0.3		30.0	4.5		15.9	100.0				586.9		2.6	0.2			18.9			0.0	0.0	0.0	1.3	5.8		0.4	5.0	217.0	51.1	45.3	18.5	1.3	1.6	86.0	
7/11/17	71.7		0.3		72.0	3.6		18.1	115.0				609.9		2.5	0.2			21.8			0.0	0.0	0.0	1.5	6.0		0.6	6.2	65.7	55.4	37.9	20.3	1.4	1.5	112.7	
2017 Min	30.0	24.7	0.3	0.0	30.0	3.6	0.0	13.9	85.0	0.0	0.0	0.0	556.8	0.0	1.9	0.2	39.5	0.0	18.0	1.1	0.0	0.0	0.0	0.1	1.1	5.8		0.3	5.0	65.7	46.7	21.3	18.5	1.1	1.5	86.0	2.2
2017 Max	71.7	24.7	1.4	0.0	72.0	16.5	0.0	21.3	141.0	0.0	0.0	0.0	693.9	0.0	3.0	0.2	39.5	0.0	23.1	1.1	0.0	0.1	0.0	0.1	2.5	6.0		0.6	6.2	217.0	59.5	53.0	23.4	2.4	3.2	128.1	2.2
2017 Mean	57.2	24.7	0.6	0.0	57.5	7.1	0.0	17.3	110.3	0.0	0.0	0.0	611.9	0.0	2.5	0.2	39.5	0.0	20.4	1.1	0.0	0.0	0.0	0.0	1.6	5.9		0.4	5.6	113.7	53.2	39.4	20.9	1.6	2.0	111.2	2.2

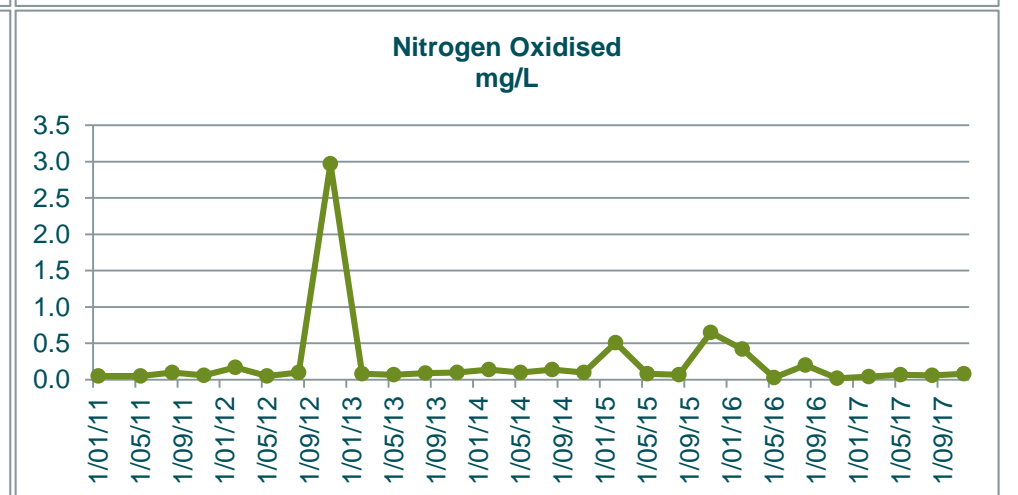
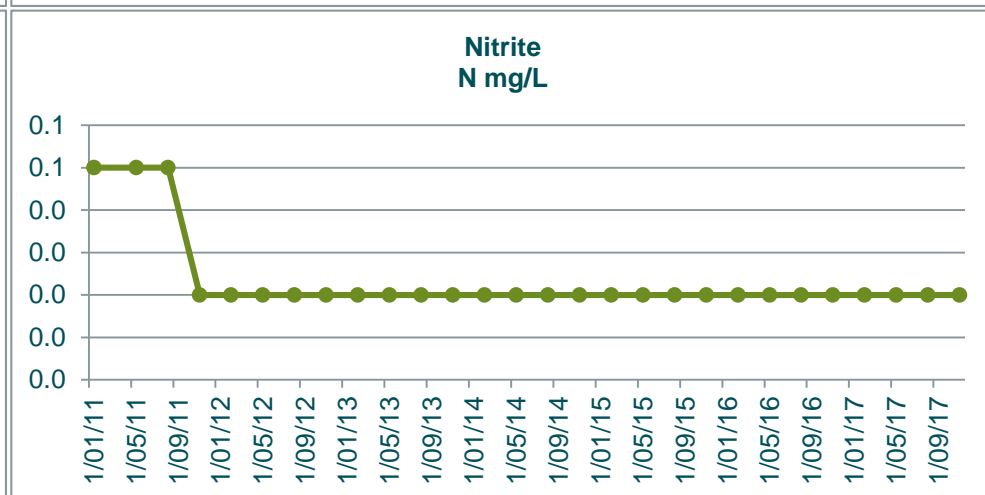
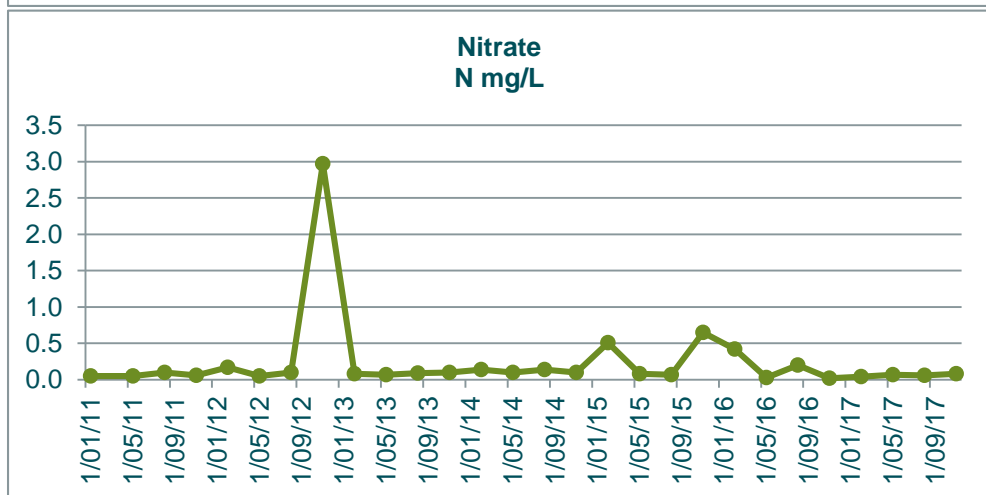
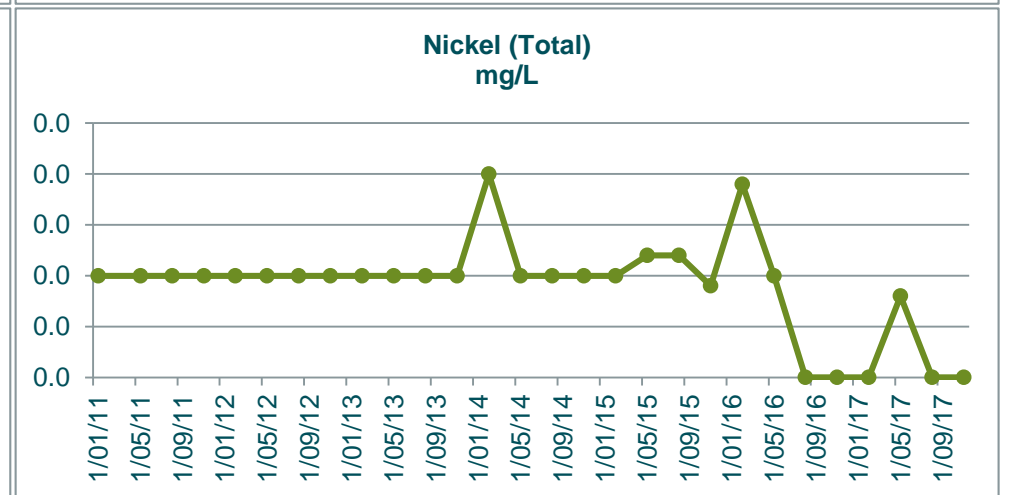
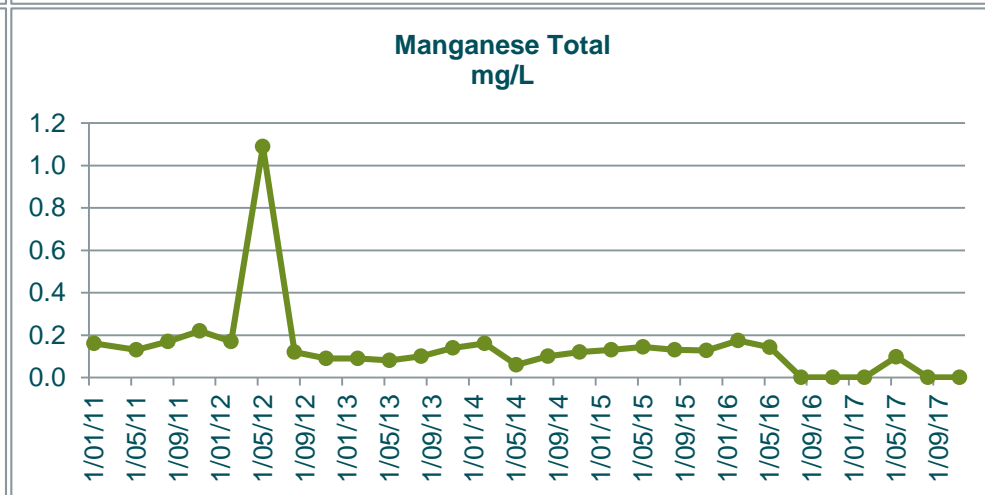
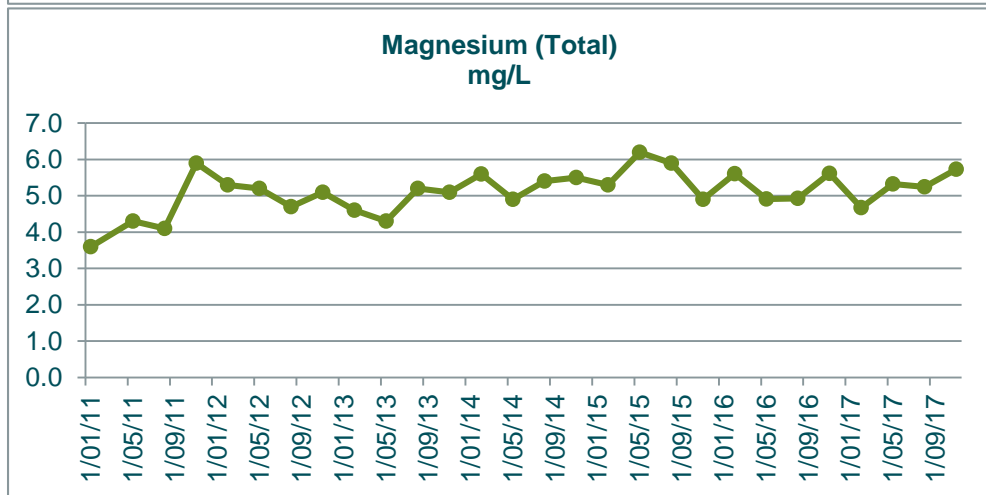
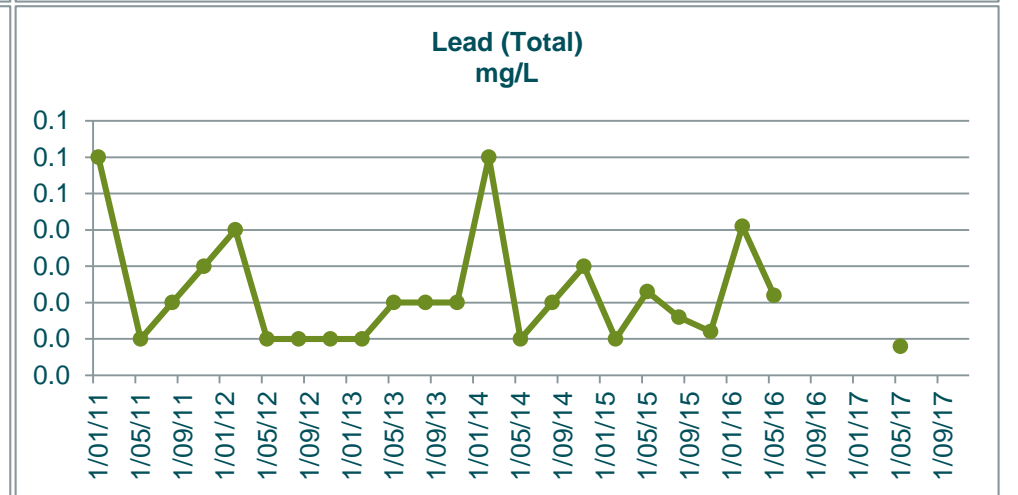
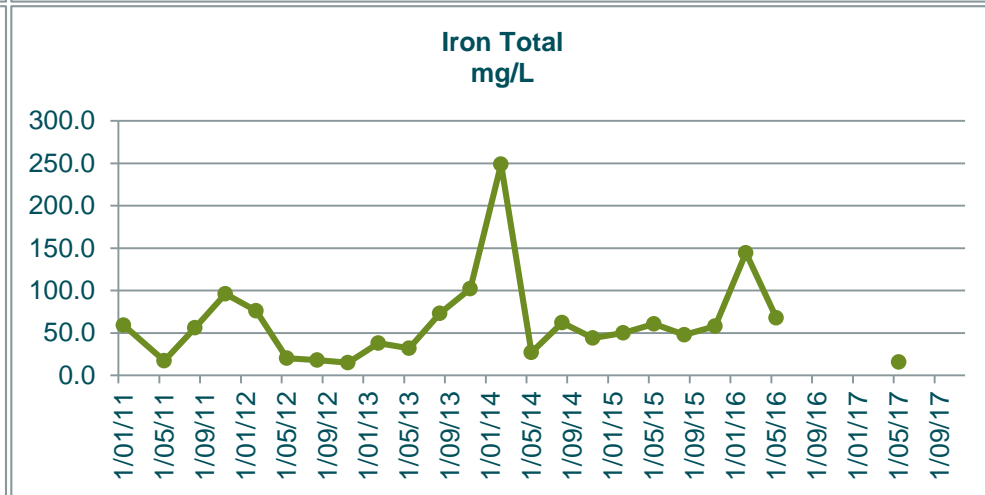
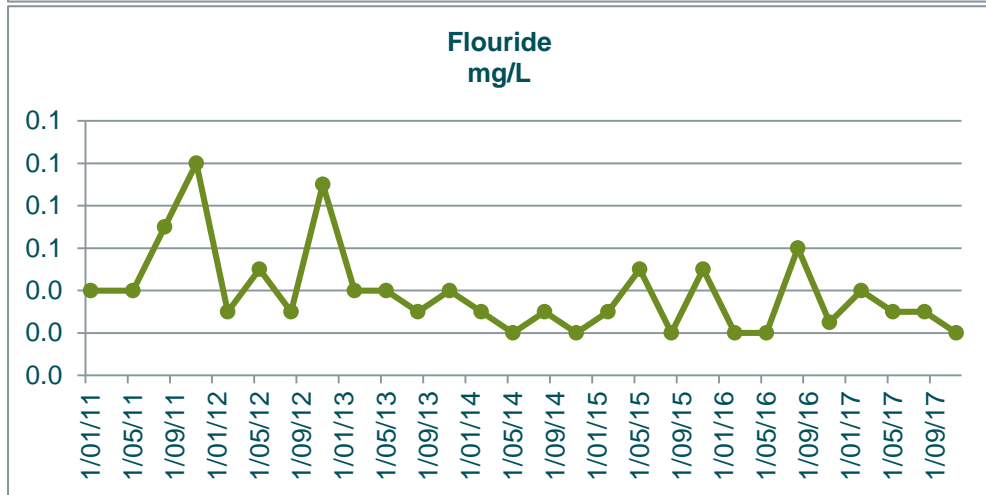
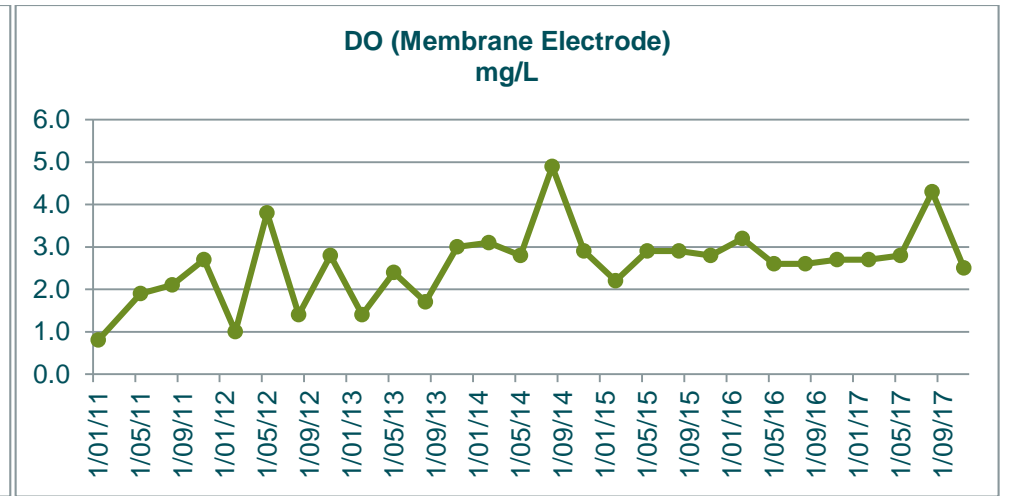
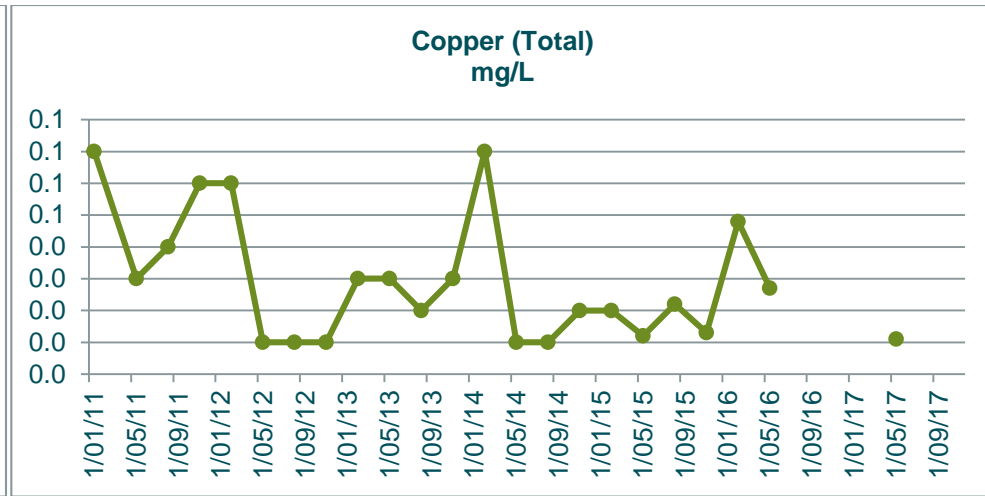
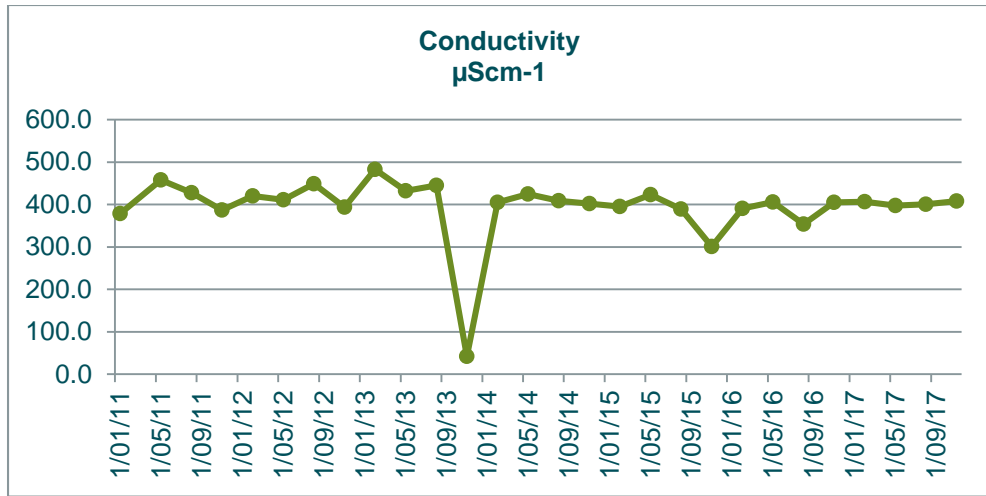


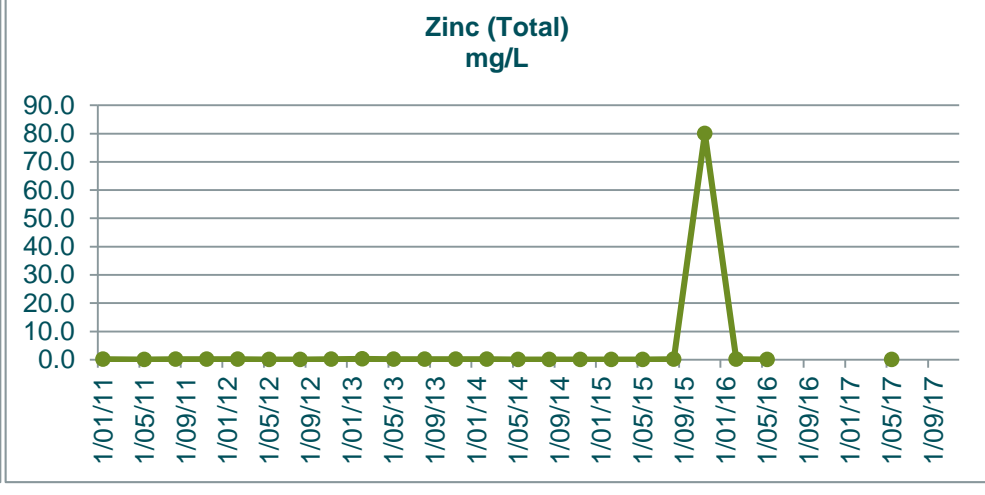
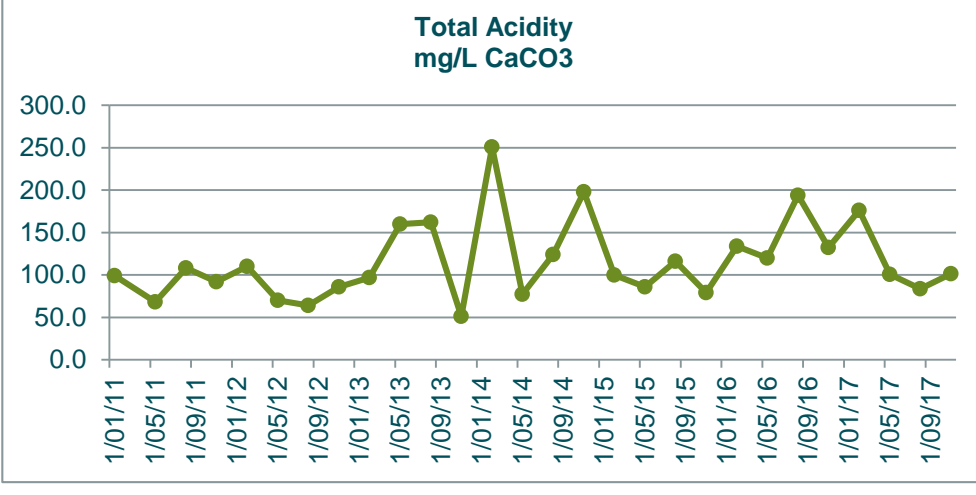
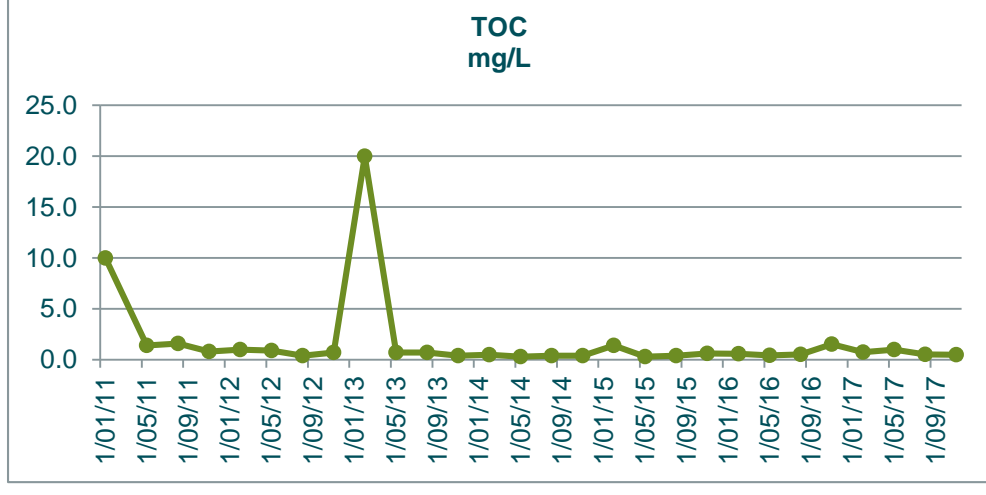
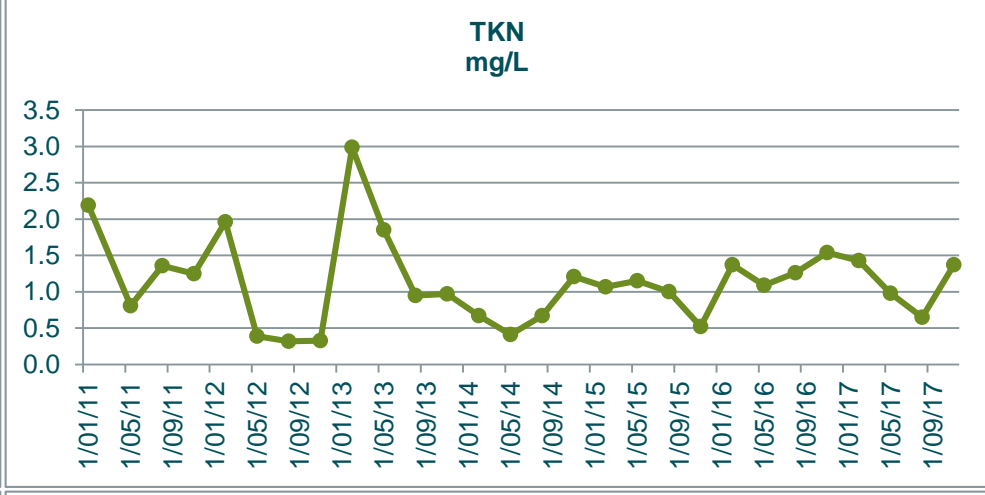
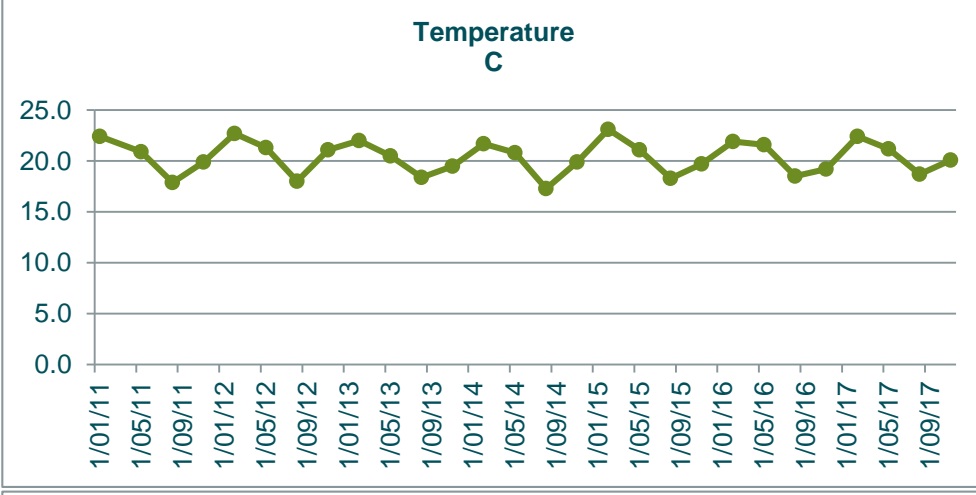
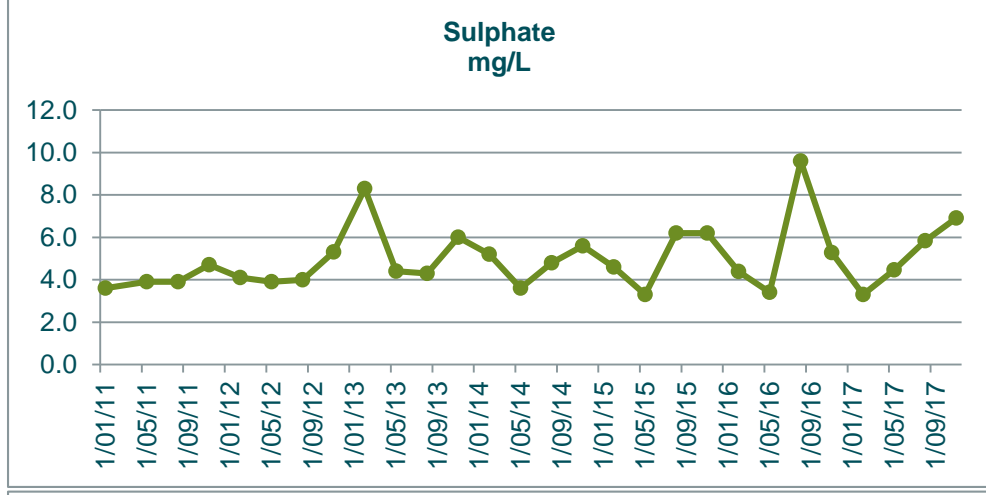
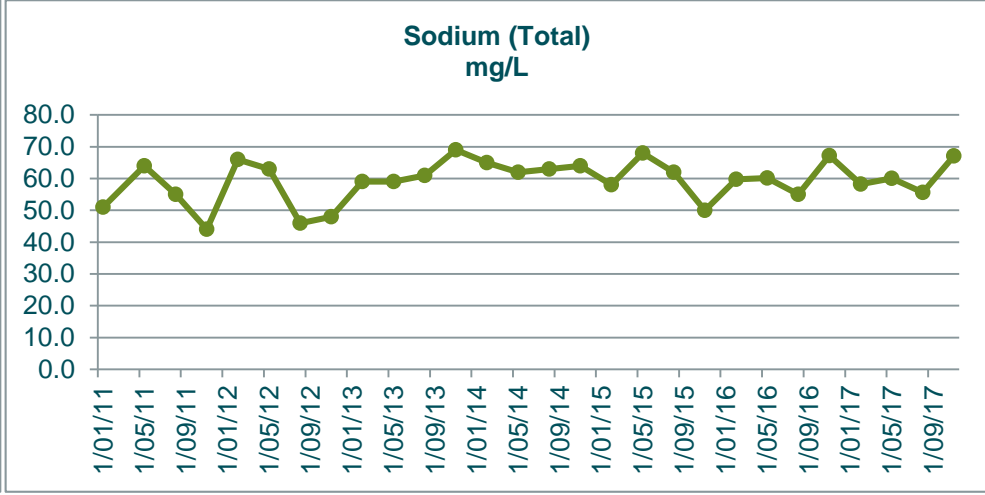
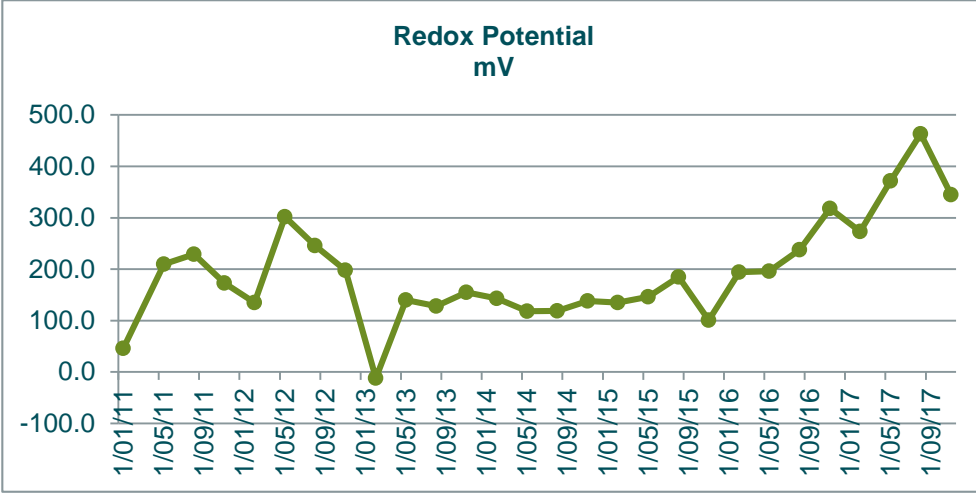
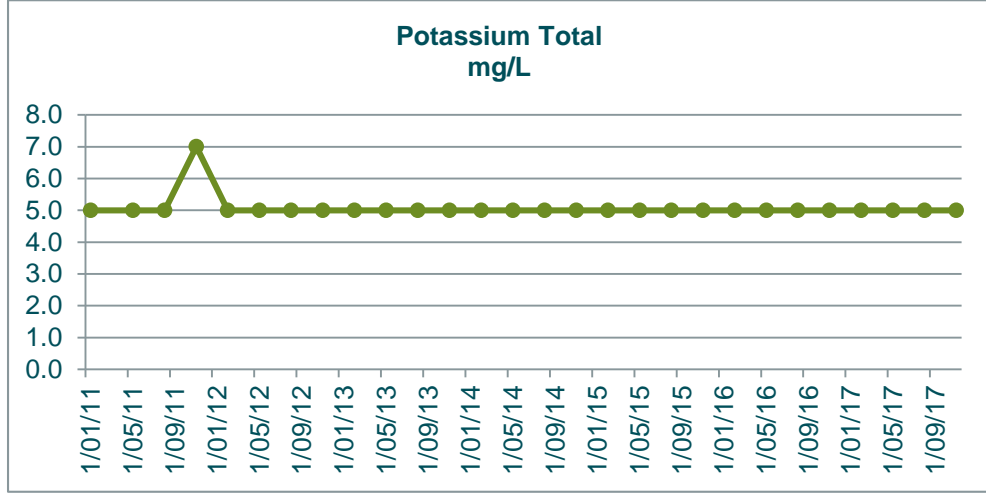
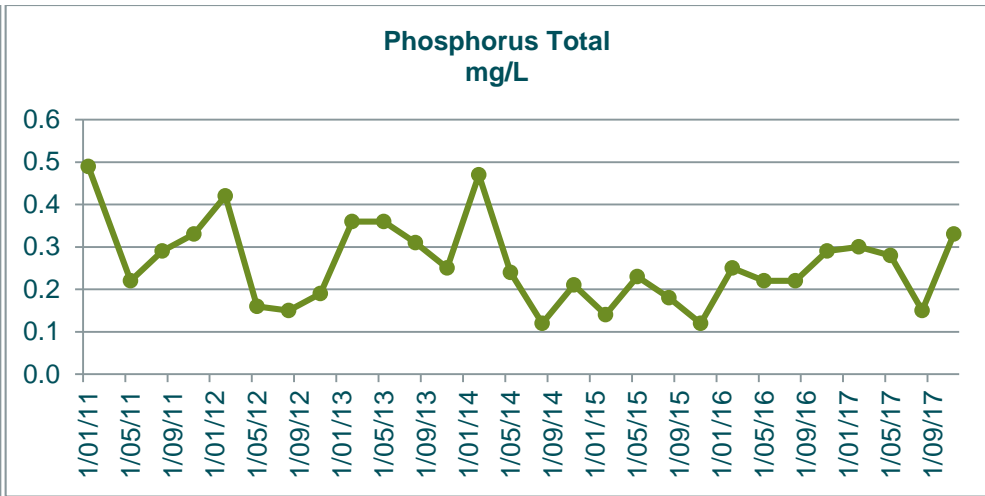
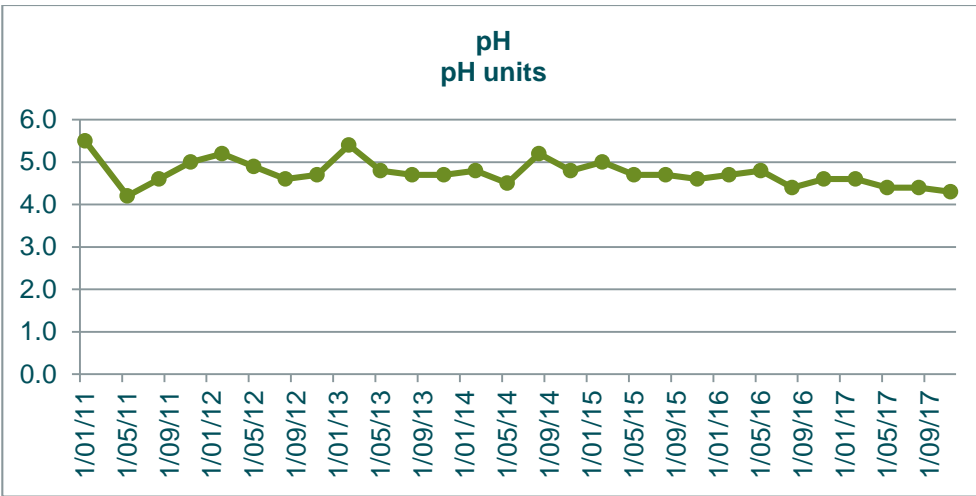
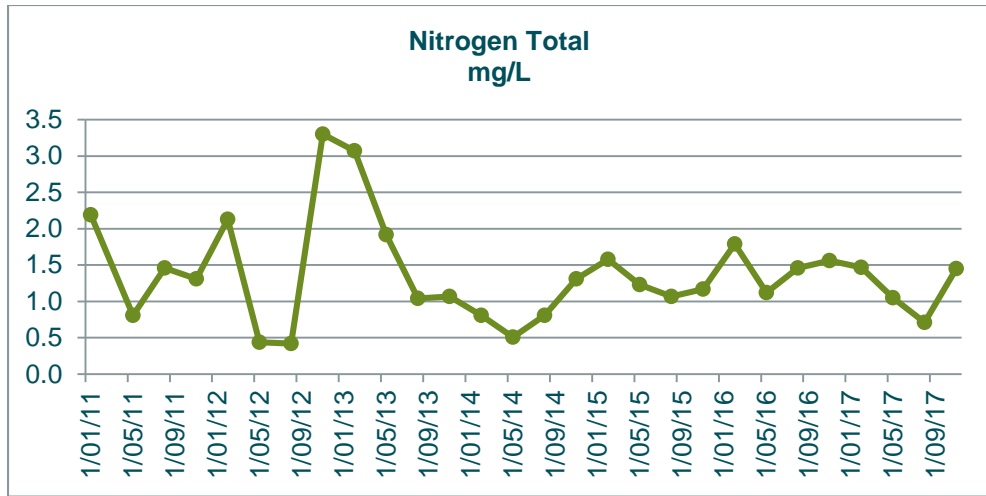




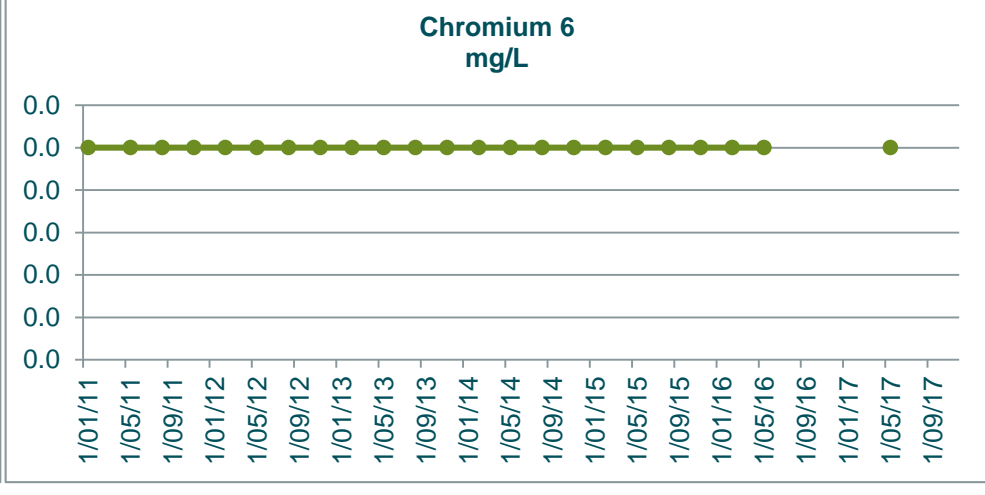
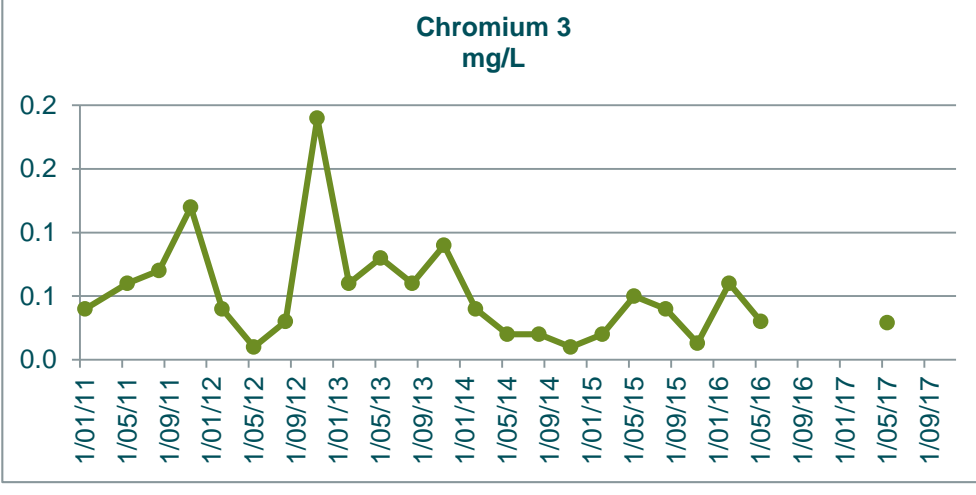
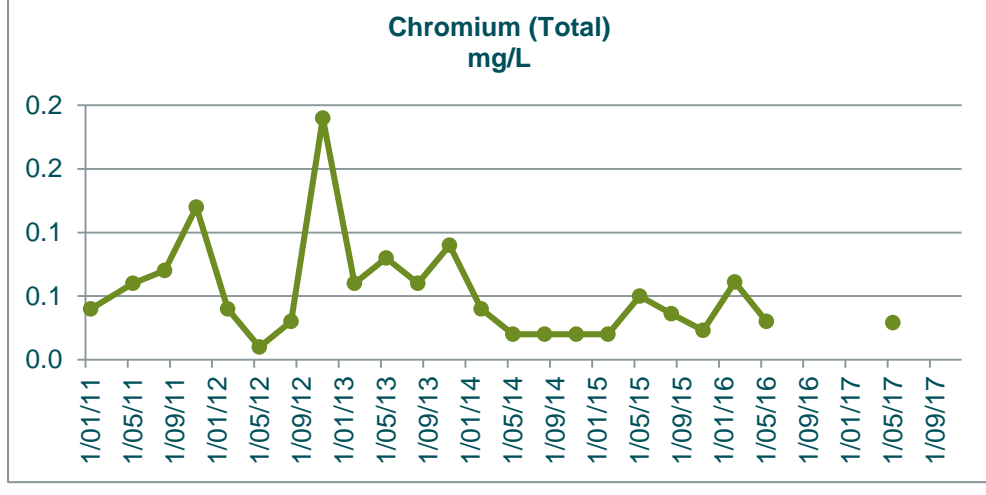
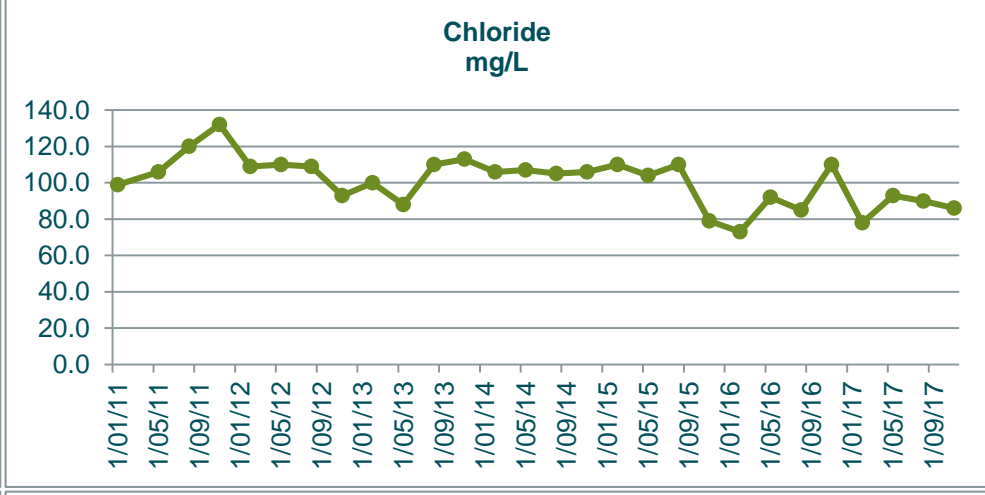
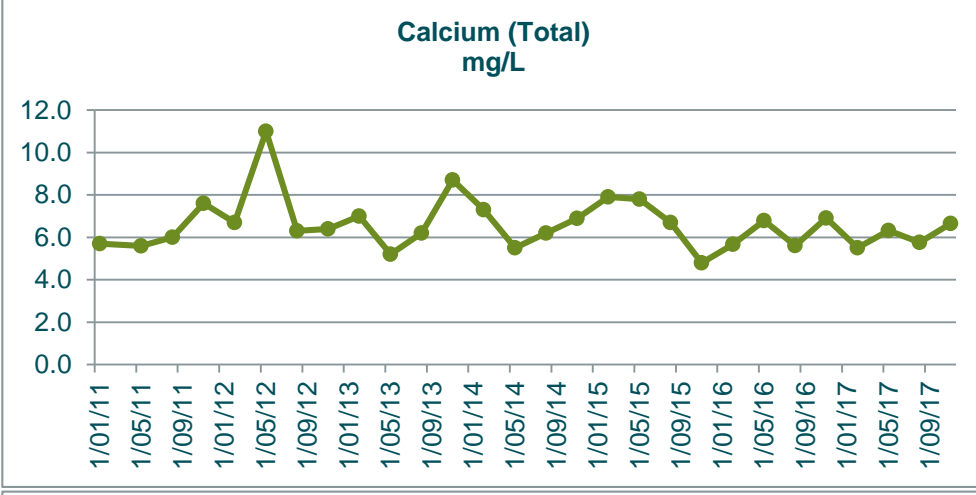
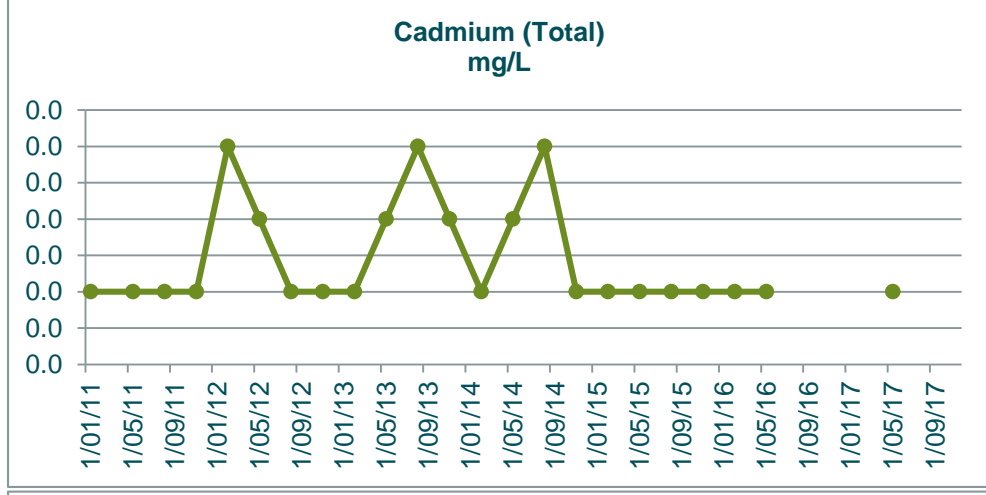
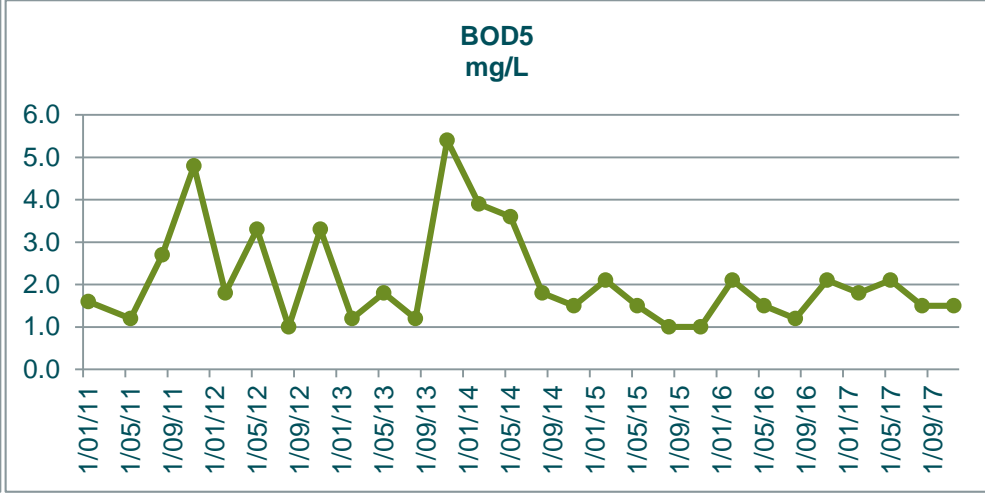
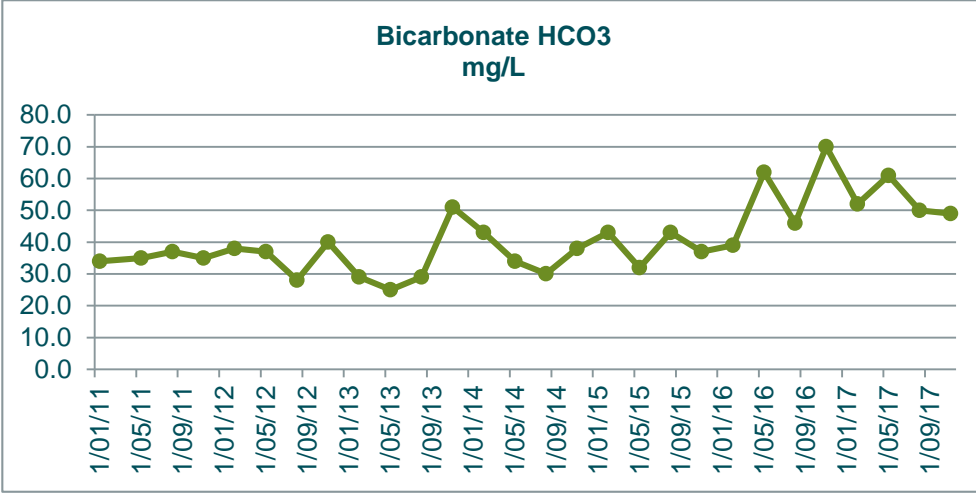
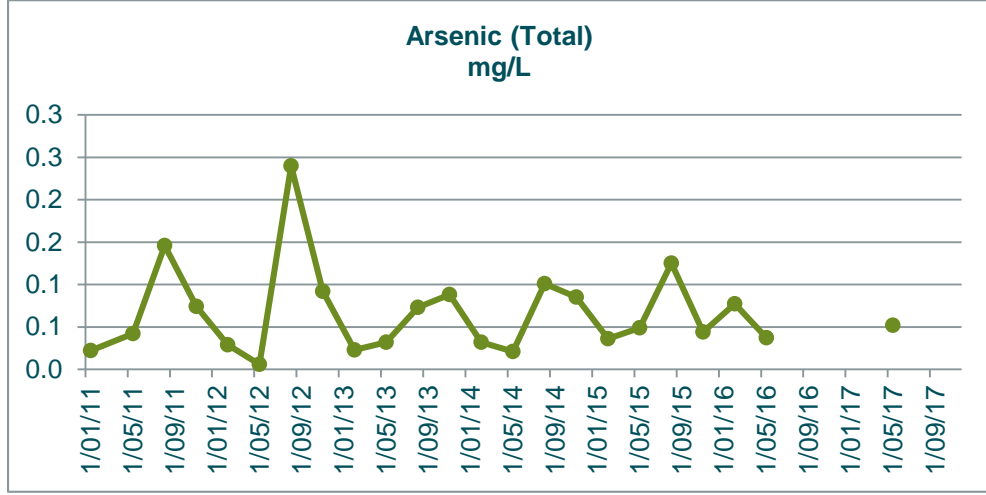
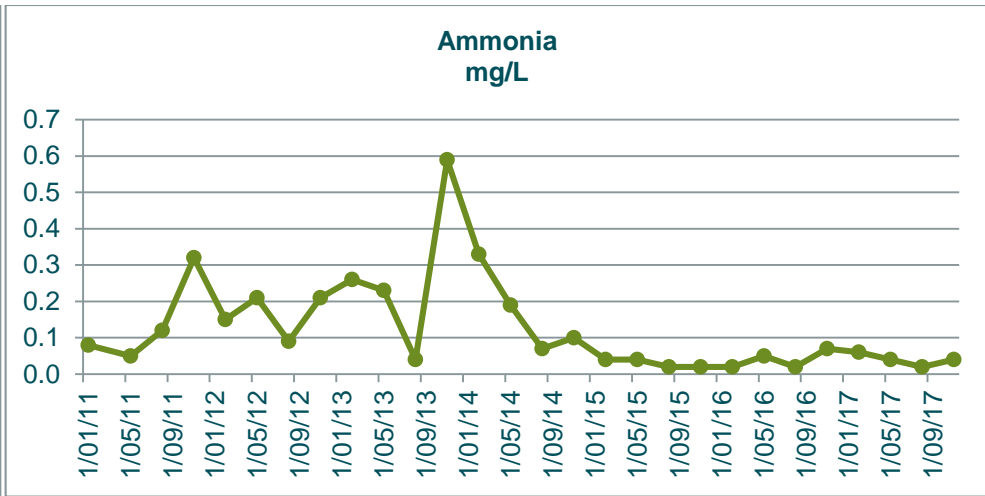
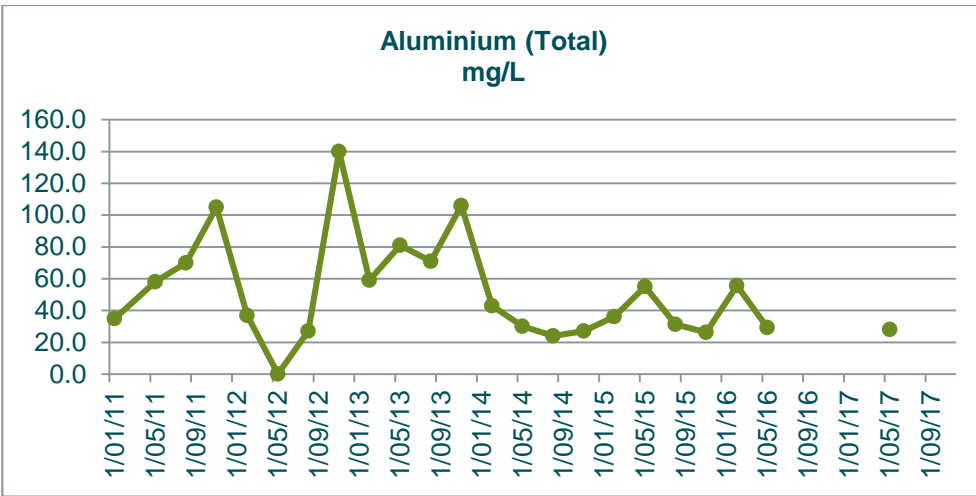
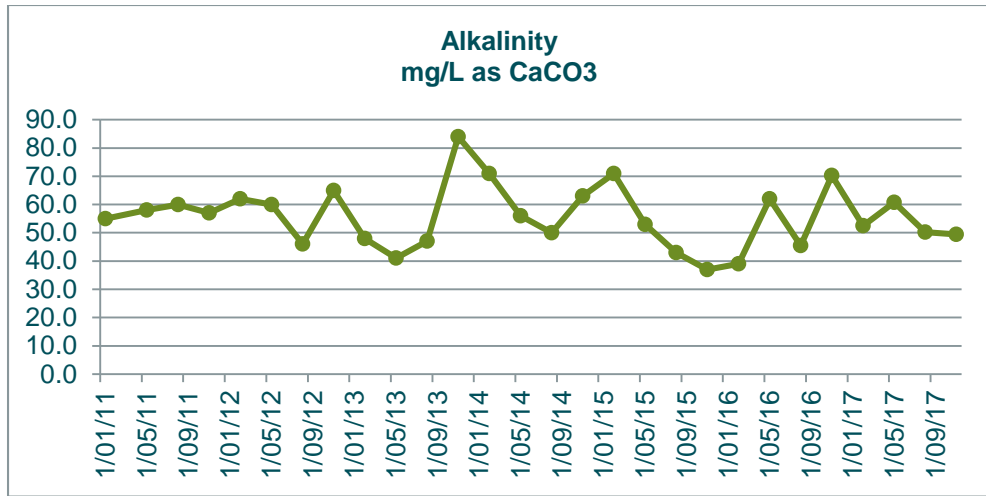
GW7	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L
31/01/11	9.0	40.0	0.5	0.0	5.0	6.0	0.0	1.7	112.0	0.1	0.1	0.0	379.0	0.1	0.8	0.0	59.0	0.1	3.6	0.2	0.0	0.1	0.1	0.1	2.2	5.5		0.5	5.0	46.0	51.0	3.6	22.4	2.2	10.0	99.0	0.2
10/05/11	2.0	14.0	0.1	0.0	1.0	1.5	0.0	2.6	118.0	0.0	0.0	0.0	458.0	0.0	1.9	0.0	17.0	0.0	4.3	0.1	0.0	0.1	0.1	0.1	0.8	4.2		0.2	5.0	210.0	64.0	3.9	20.9	0.8	1.4	68.0	0.1
09/08/11	1.0	27.0	0.1	0.0	1.0	2.1	0.0	2.2	120.0	0.0	0.0	0.0	428.0	0.0	2.1	0.1	56.0	0.0	4.1	0.2	0.0	0.1	0.1	0.1	1.5	4.6		0.3	5.0	229.0	55.0	3.9	17.9	1.4	1.6	108.0	0.2
08/11/11	3.0	43.0	0.1	0.0	2.0	1.5	0.0	2.6	140.0	0.0	0.0	0.0	387.0	0.1	2.7	0.1	96.0	0.0	5.9	0.2	0.0	0.1	0.0	0.1	1.3	5.0		0.3	7.0	173.2	44.0	4.7	19.9	1.3	0.8	92.0	0.2
06/02/12	5.0	53.0	0.4	0.0	3.0	5.7	0.0	2.2	108.0	0.1	0.1	0.0	420.0	0.1	1.0	0.0	76.0	0.0	5.3	0.2	0.0	0.2	0.0	0.2	2.1	5.2		0.4	5.0	135.0	66.0	4.1	22.7	2.0	1.0	110.0	0.2
08/05/12	3.0	0.1	0.1	0.0	2.0	1.0	0.0	2.9	110.0	0.0	0.0	0.0	411.0	0.0	3.8	0.1	20.0	0.0	5.2	1.1	0.0	0.1	0.0	0.1	0.4	4.9		0.2	5.0	302.0	63.0	3.9	21.3	0.4	0.9	70.0	0.0
06/08/12	4.0	3.5	0.0	0.0	2.0	3.0	0.0	3.2	114.0	0.0	0.0	0.0	449.0	0.0	1.4	0.0	18.0	0.0	4.7	0.1	0.0	0.1	0.0	0.1	0.4	4.6		0.2	5.0	246.0	46.0	4.0	18.0	0.3	0.4	64.0	0.1
13/11/12	2.0	8.2	0.1	0.0	1.0	1.8	0.0	2.9	96.0	0.0	0.0	0.0	394.0	0.0	2.8	0.1	15.0	0.0	5.1	0.1	0.0	3.0	0.0	3.0	3.3	4.7		0.2	5.0	198.0	48.0	5.3	21.1	0.3	0.7	86.0	0.1
13/02/13	22.0	20.0	1.3	0.0	13.0	15.0	0.0	1.9	110.0	0.0	0.0	0.0	483.0	0.0	1.4	0.0	38.0	0.0	4.6	0.1	0.0	0.1	0.0	0.1	3.1	5.4		0.4	5.0	-12.0	59.0	8.3	22.0	3.0	20.0	97.0	0.3
14/05/13	1.0	30.0	0.1	0.0	1.0	2.7	0.0	2.1	120.0	0.0	0.0	0.0	432.0	0.0	2.4	0.0	32.0	0.0	4.3	0.1	0.0	0.1	0.0	0.1	1.9	4.8		0.4	5.0	140.0	59.0	4.4	20.5	1.9	0.7	160.0	0.2
06/08/13	1.0	33.0	0.0	0.0	1.0	1.0	0.0	2.2	110.0	0.0	0.0	0.0	445.0	0.0	1.7	0.0	73.0	0.0	5.2	0.1	0.0	0.1	0.0	0.1	1.0	4.7		0.3	5.0	128.0	61.0	4.3	18.4	1.0	0.7	162.0	0.1
12/11/13	1.0	39.0	0.1	0.0	1.0	1.0	0.0	2.3	119.0	0.0	0.0	0.0	42.0	0.0	3.0	0.0	102.0	0.0	5.1	0.1	0.0	0.1	0.0	0.1	1.1	4.7		0.3	5.0	155.0	69.0	6.0	19.5	1.0	0.4	51.0	0.1
11/02/14	2.0	87.0	0.1	0.0	1.0	2.4	0.0	2.1	111.0	0.1	0.1	0.0	405.0	0.1	3.1	0.0	249.0	0.1	5.6	0.2	0.0	0.1	0.0	0.1	0.8	4.8		0.5	5.0	143.0	65.0	5.2	21.7	0.7	0.5	251.0	0.2
13/05/14	2.0	18.0	0.0	0.0	1.0	1.0	0.0	2.0	117.0	0.0	0.0	0.0	425.0	0.0	2.8	0.0	27.0	0.0	4.9	0.1	0.0	0.1	0.0	0.1	0.5	4.5		0.2	5.0	118.0	62.0	3.6	20.8	0.4	0.3	77.0	0.1
12/08/14	1.0	25.0	0.1	0.0	1.0	1.0	0.0	2.6	118.0	0.0	0.0	0.0	409.0	0.0	4.9	0.0	62.0	0.0	5.4	0.1	0.0	0.1	0.0	0.1	0.8	5.2		0.1	5.0	119.0	63.0	4.8	17.3	0.7	0.4	124.0	0.1
10/11/14	1.0	25.0	0.1	0.0	1.0	1.2	0.0	2.2	114.0	0.0	0.0	0.0	402.0	0.0	2.9	0.0	44.0	0.0	5.5	0.1	0.0	0.1	0.0	0.1	1.3	4.8		0.2	5.0	138.0	64.0	5.6	19.9	1.2	0.4	198.0	0.1
09/02/15	2.0	27.4	0.0	0.0	1.0	1.2	0.0	2.3	110.0	0.0	0.0	0.0	395.0	0.0	2.2	0.0	50.0	0.0	5.3	0.1	0.0	0.5	0.0	0.5	1.6	5.0		0.1	5.0	135.0	58.0	4.6	23.1	1.1	1.4	100.0	0.1
11/05/15	1.0	37.4	0.0	0.0	1.0	1.5	0.0	2.6	116.0	0.0	0.0	0.0	423.0	0.0	2.9	0.1	60.4	0.0	6.2	0.1	0.0	0.1	0.0	0.1	1.2	4.7		0.2	5.0	146.0	68.0	3.3	21.1	1.2	0.3	86.0	0.1
11/08/15	1.0	21.9	0.0	0.0	1.0	1.0	0.0	2.9	110.0	0.0	0.0	0.0	389.0	0.0	2.9	0.0	47.9	0.0	5.9	0.1	0.0	0.1	0.0	0.1	1.1	4.7		0.2	5.0	185.0	62.0	6.2	18.3	1.0	0.4	116.0	0.1
10/11/15	1.0	20.1	0.0	0.0	1.0	1.0	0.0	2.3	100.0	0.0	0.0	0.0	301.0	0.0	2.8	0.1	57.9	0.0	4.9	0.1	0.0	0.7	0.0	0.7	1.2	4.6		0.1	5.0	101.0	50.0	6.2	19.7	0.5	0.6	79.0	80.0
08/02/16	2.0	55.3	0.0	0.0	2.0	1.0	0.0	2.3	107.0	0.1	0.1	0.0	391.0	0.0	3.2	0.0	144.5	0.0	5.6	0.2	0.0	0.4	0.0	0.4	1.8	4.7		0.3	5.0	194.0	59.8	4.4	21.9	1.4	0.6	134.0	0.1
09/05/16	1.0	34.9	0.0	0.0	1.0	1.5	0.0	2.0	114.0	0.0	0.0	0.0	406.0	0.0	2.6	0.0	67.8	0.0	4.9	0.1	0.0	0.0	0.0	0.0	1.1	4.8		0.2	5.0	196.0	60.2	3.4	21.6	1.1	0.4	120.0	0.1
09/08/16	1.4		0.0			1.0		2.3	92.0				353.9		2.6	0.1			4.9	NT	NT	0.2	0.0	0.2	1.5	4.4		0.2	5.0	238.0	55.0	9.6	18.5	1.3	0.5	193.7	
07/11/16	1.0		0.0			1.8		2.3	120.0				405.1		2.7	0.0			5.6	NT	NT	0.0	0.0	0.0	1.6	4.6		0.3	5.0	318.0	67.2	5.3	19.2	1.5	1.5	132.4	
07/02/17	1.0		0.0			1.0		1.8	92.0				406.8		2.7	0.0			4.7	NT	NT	0.0	0.0	0.0	1.5	4.6		0.3	5.0	273.3	58.3	3.3	22.4	1.4	0.7	176.1	
08/05/17	1.0	12.0	0.0	0.0		1.0	0.0	2.1	113.0	0.0	0.0	0.0	397.7	0.0	2.8	0.0	15.7	0.0	5.3	0.1	0.0	0.1	0.0	0.1	1.1	4.4		0.3	5.0	371.6	60.0	4.5	21.2	1.0	1.0	100.7	0.1
08/08/17	1.0		0.0			1.0		2.6	95.0				400.9		4.3	0.0			5.2	NT	NT	0.1	0.0	0.1	0.7	4.4		0.2	5.0	462.9	55.6	5.8	18.7	0.7	0.5	83.7	
07/11/17	2.9		0.0		3.0	1.8		2.5	113.0				408.0		2.5	0.0			5.7	NT	NT	0.1	0.0	0.1	1.5	4.3		0.3	5.0	344.8	67.1	6.9	20.1	1.4	0.5	101.3	
2017 Min	1.0	12.0	0.0	0.0	3.0	1.0	0.0	1.8	92.0	0.0	0.0	0.0	397.7	0.0	2.5	0.0	15.7	0.0	4.7	0.1	0.0	0.0	0.0	0.0	0.7	4.3		0.2	5.0	273.3	55.6	3.3	18.7	0.7	0.5	83.7	0.1
2017 Max	2.9	12.0	0.0	0.0	3.0	1.8	0.0	2.6	113.0	0.0	0.0	0.0	408.0	0.0	4.3	0.0	15.7	0.0	5.7	0.1	0.0	0.1	0.0	0.1	1.5	4.6		0.3	5.0	462.9	67.1	6.9	22.4	1.4	1.0	176.1	0.1
2017 Mean	1.5	12.0	0.0	0.0	3.0	1.2	0.0	2.2	103.3	0.0	0.0	0.0	403.4	0.0	3.1	0.0	15.7	0.0	5.2	0.1	0.0	0.1	0.0	0.1	1.2	4.4		0.3	5.0	363.2	60.2	5.1	20.6	1.1	0.7	115.5	0.1

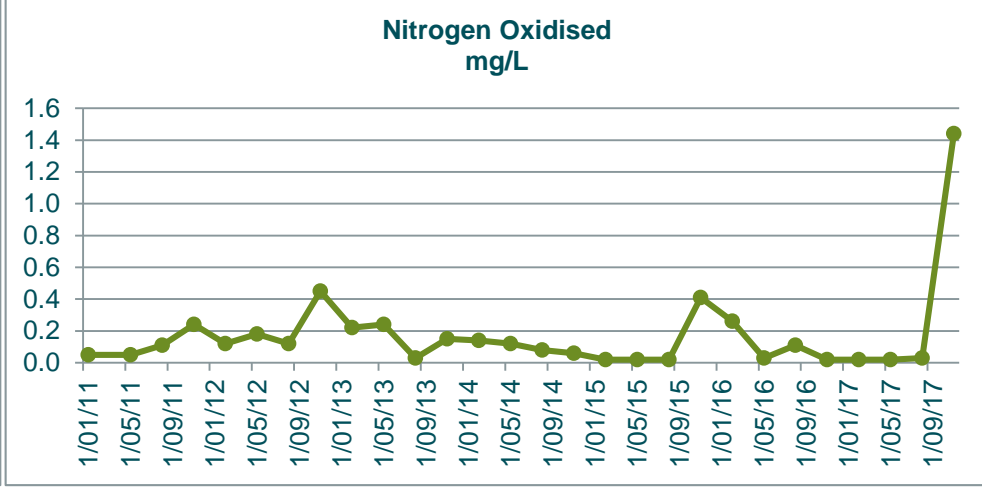
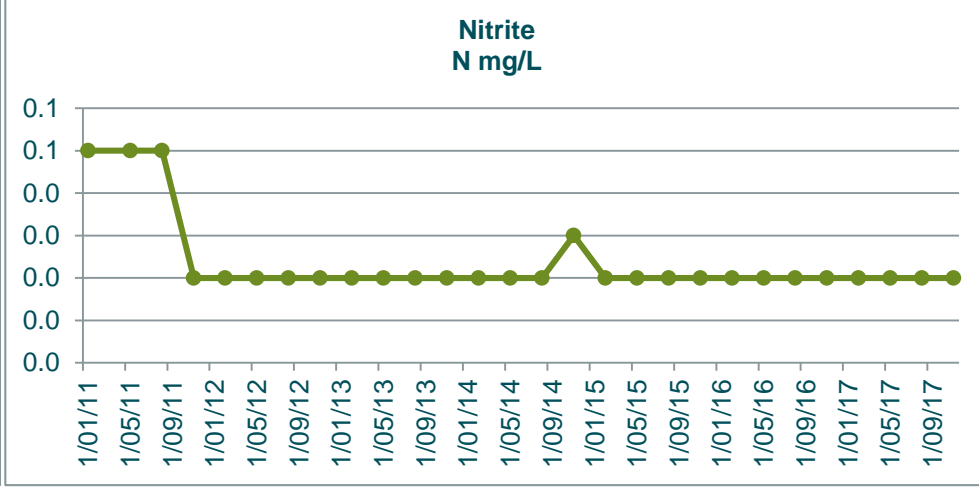
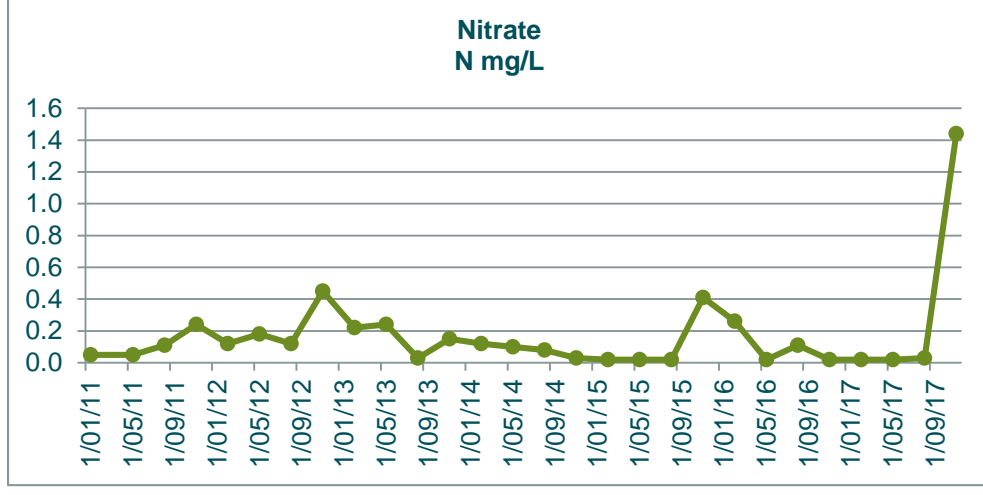
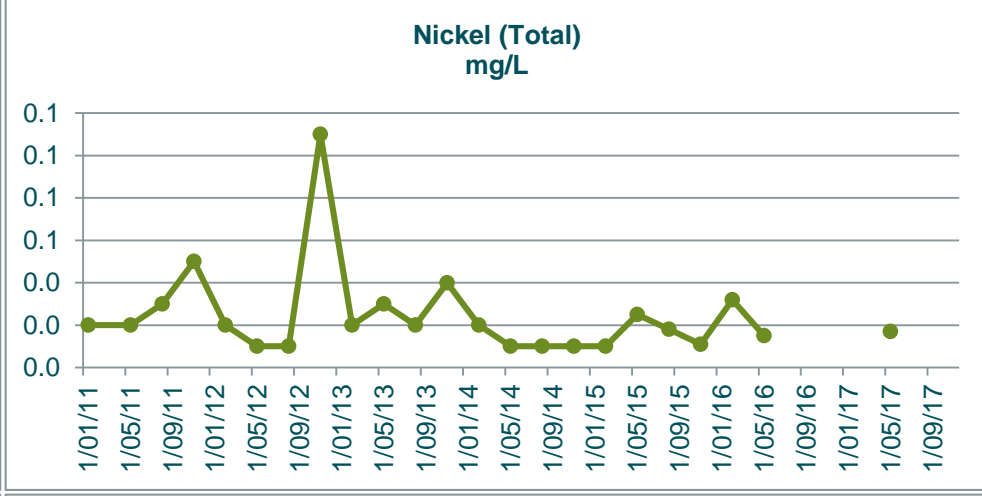
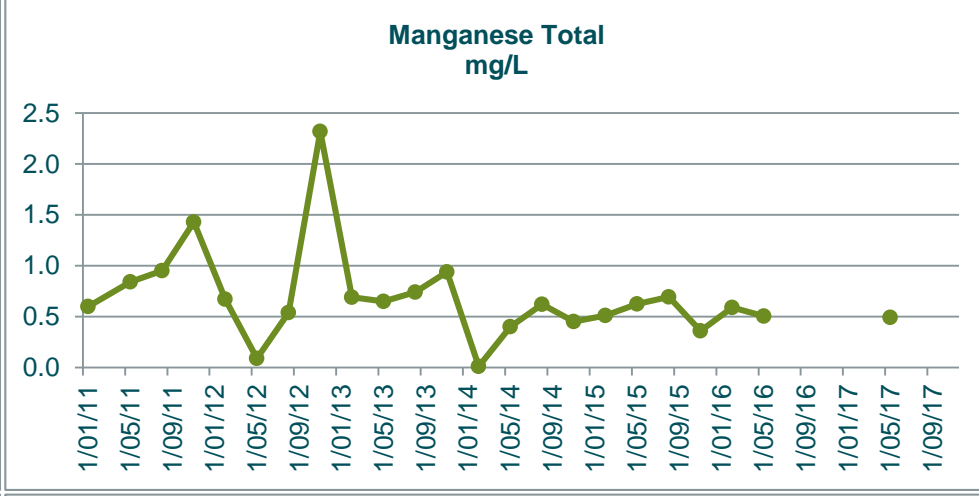
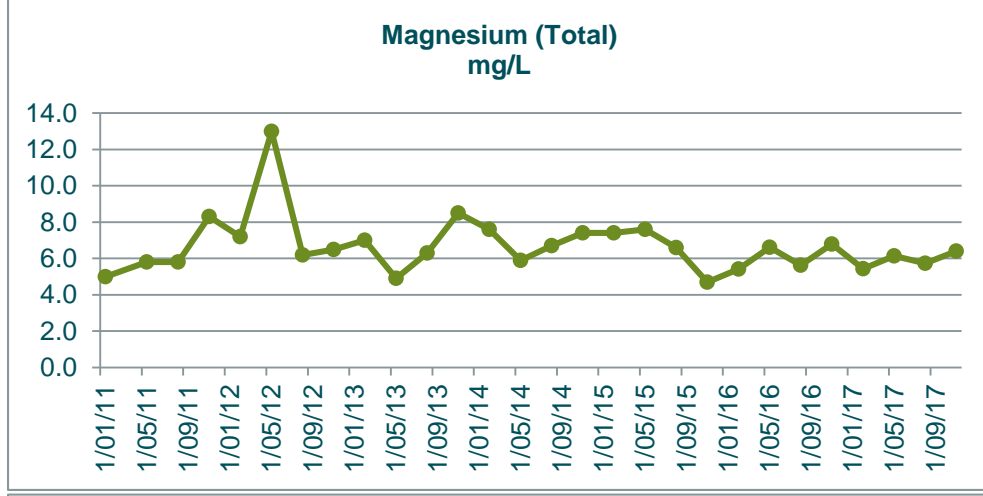
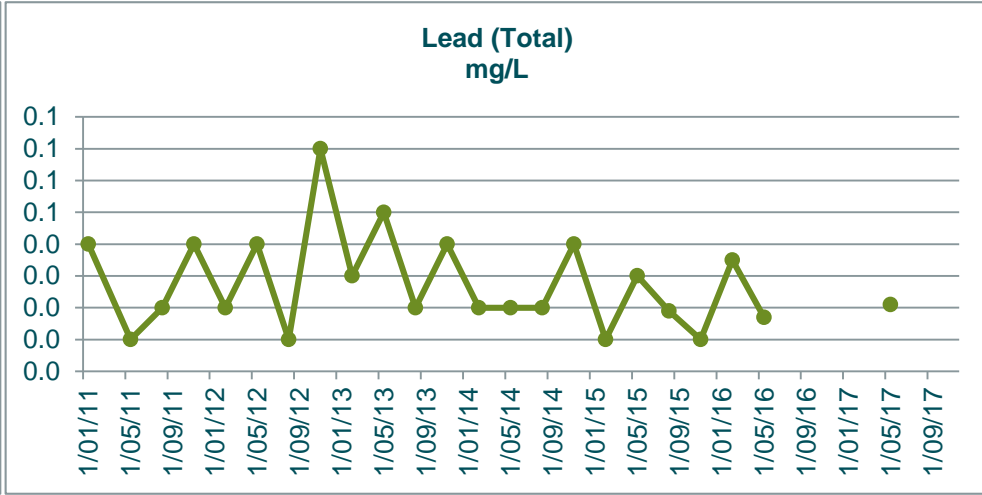
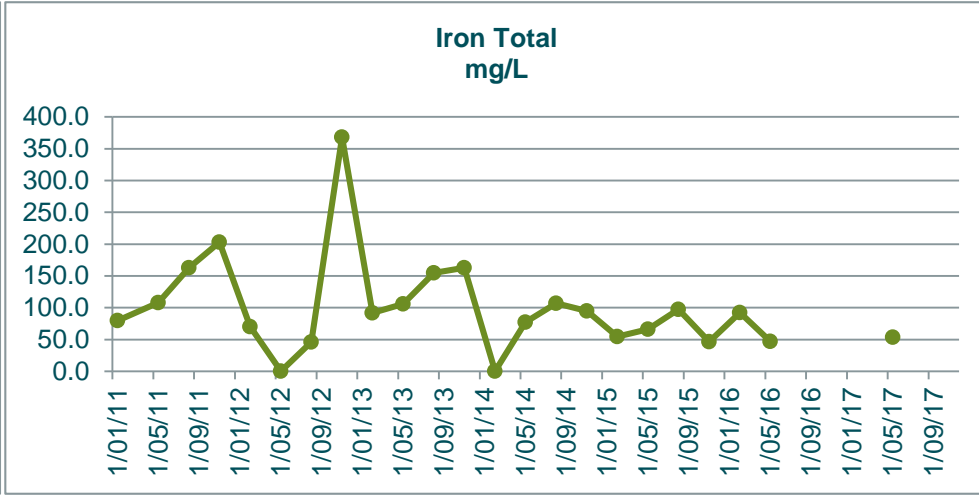
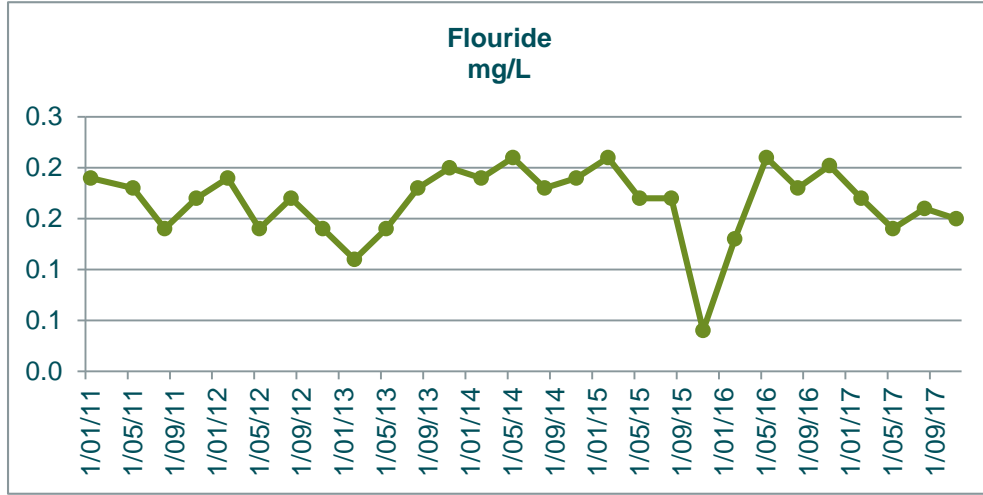
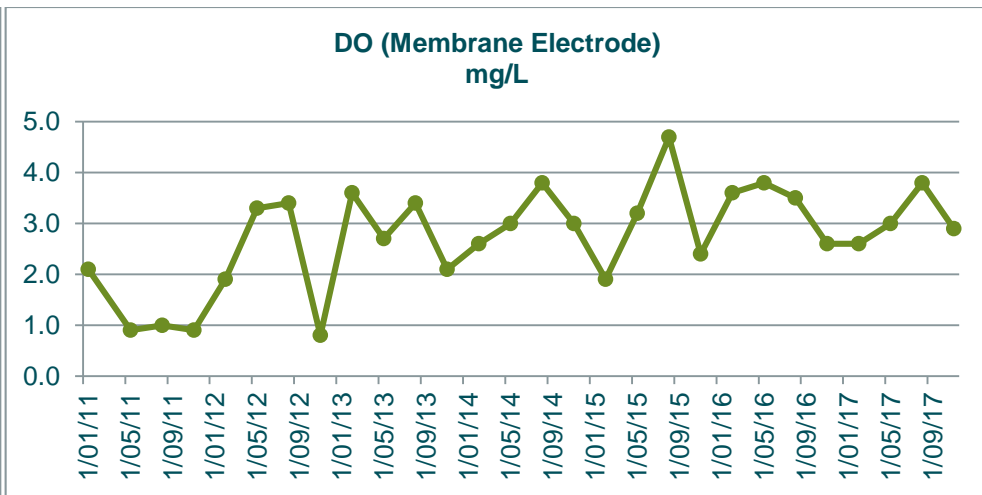
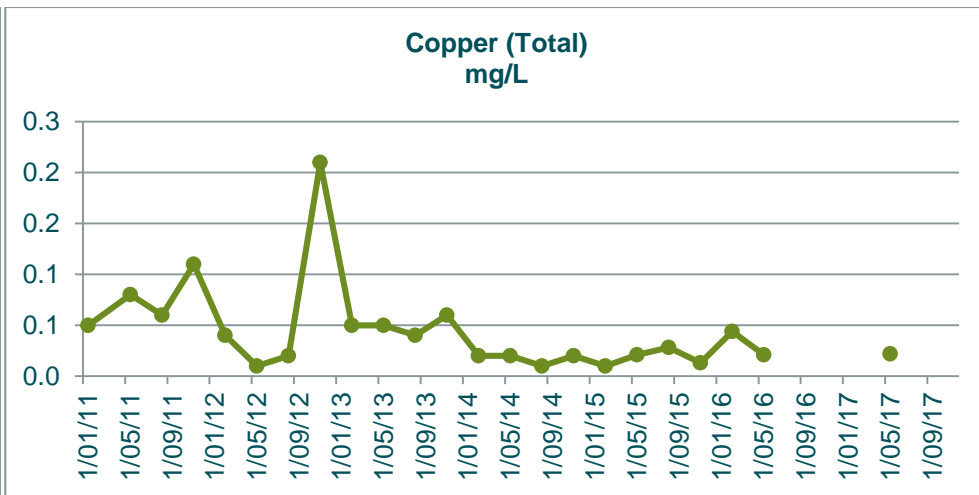
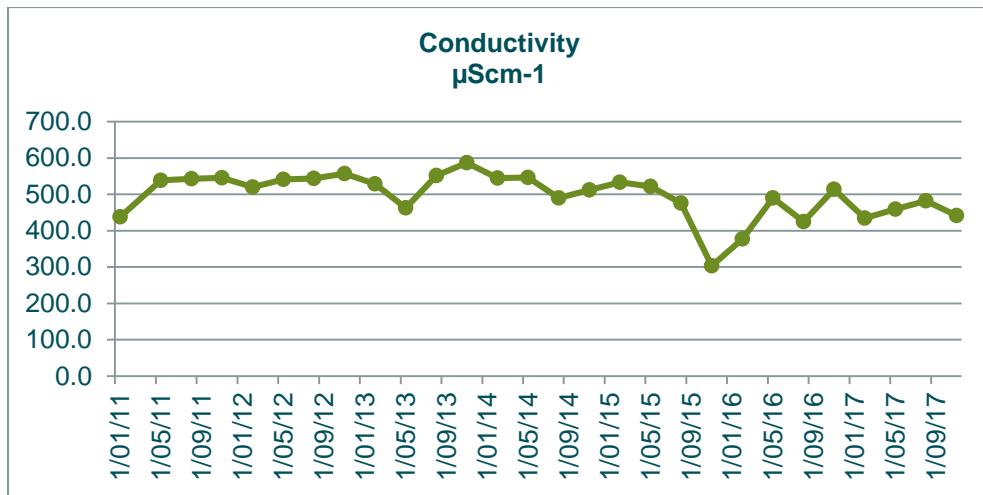


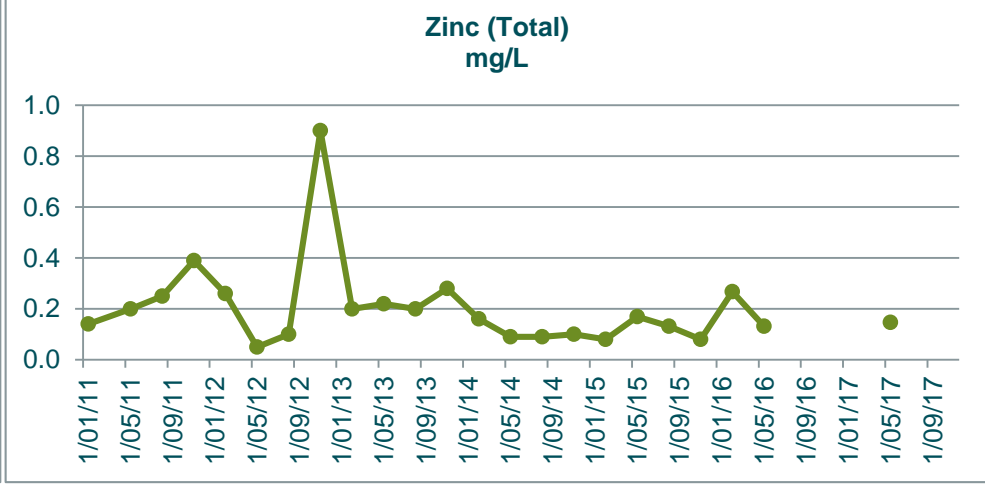
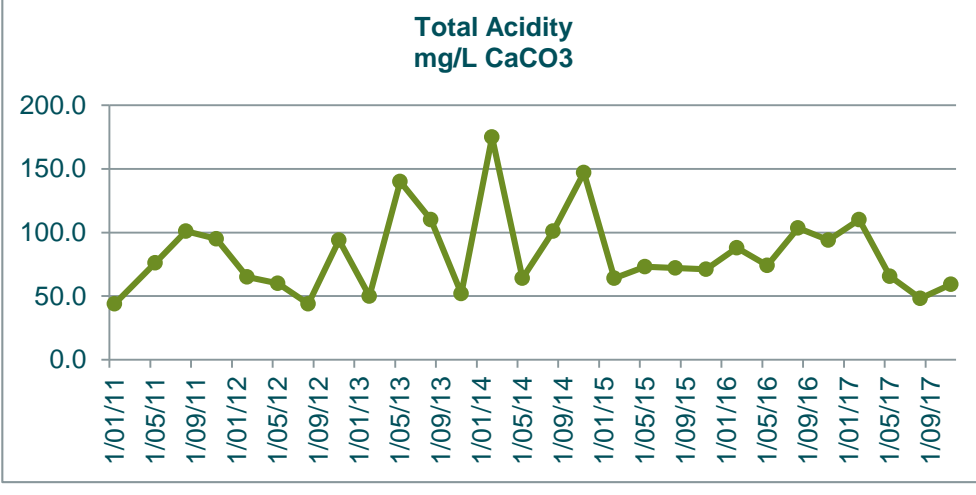
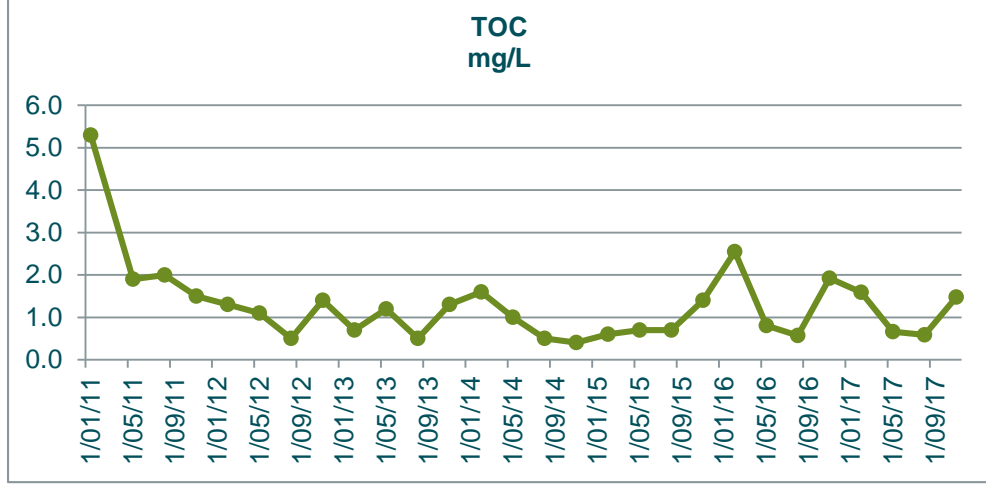
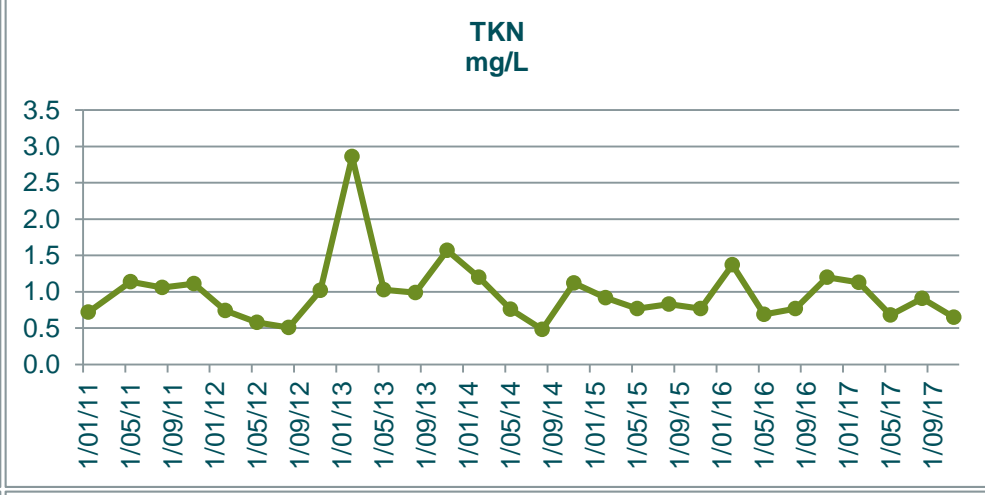
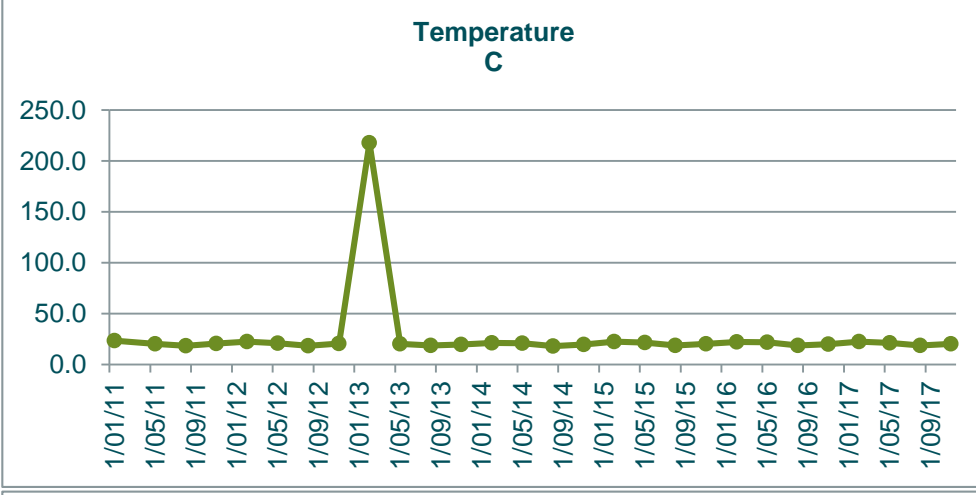
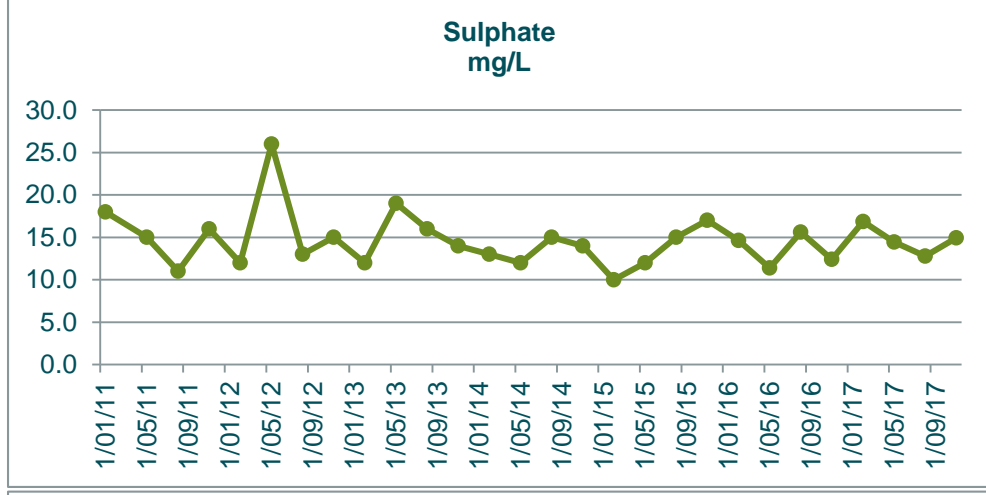
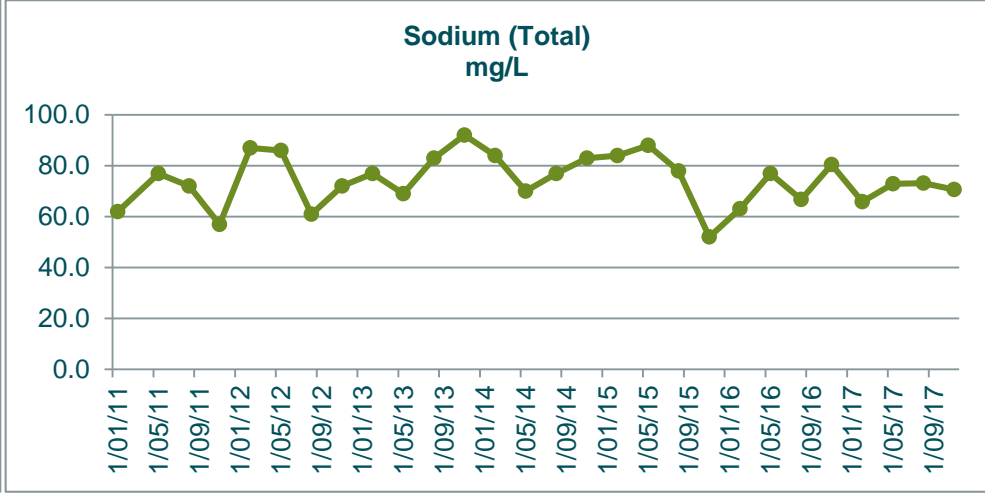
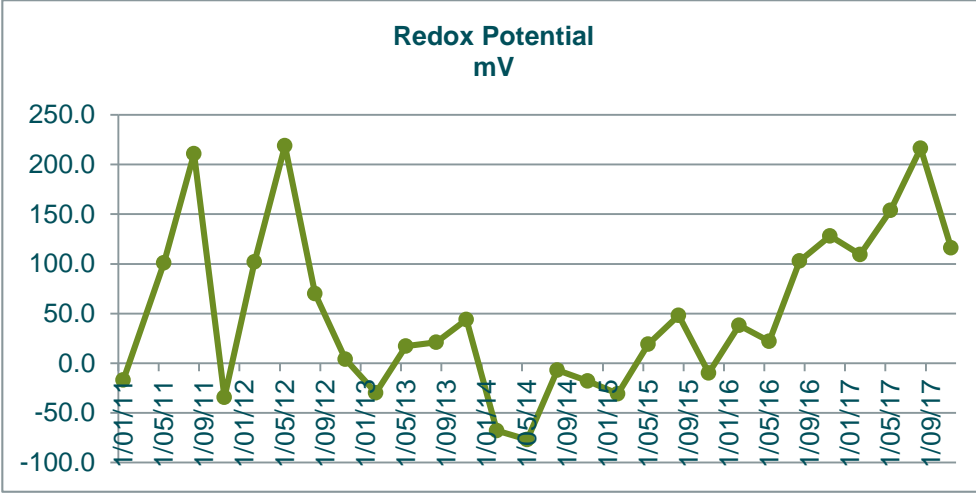
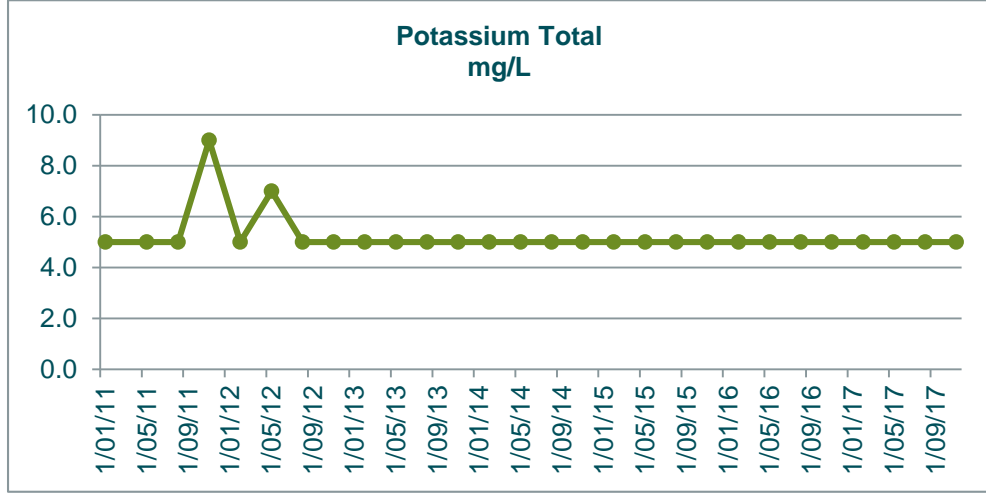
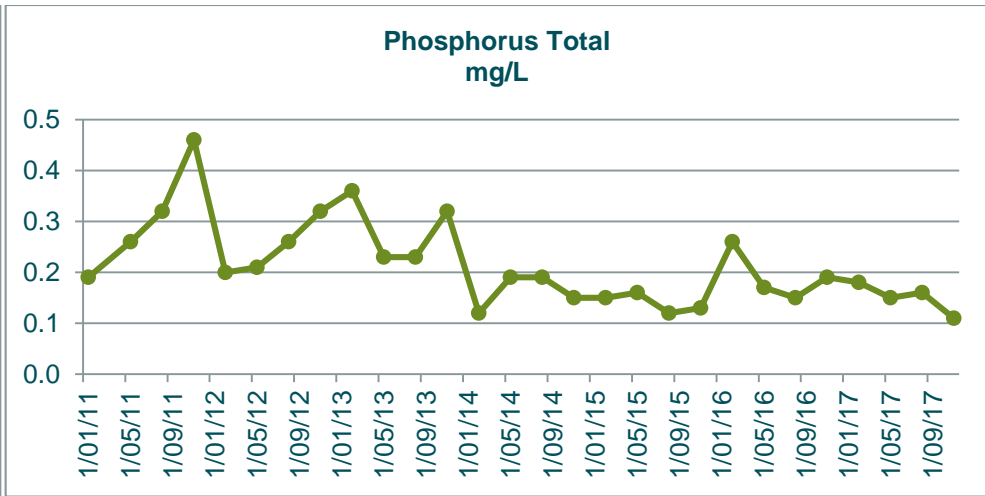
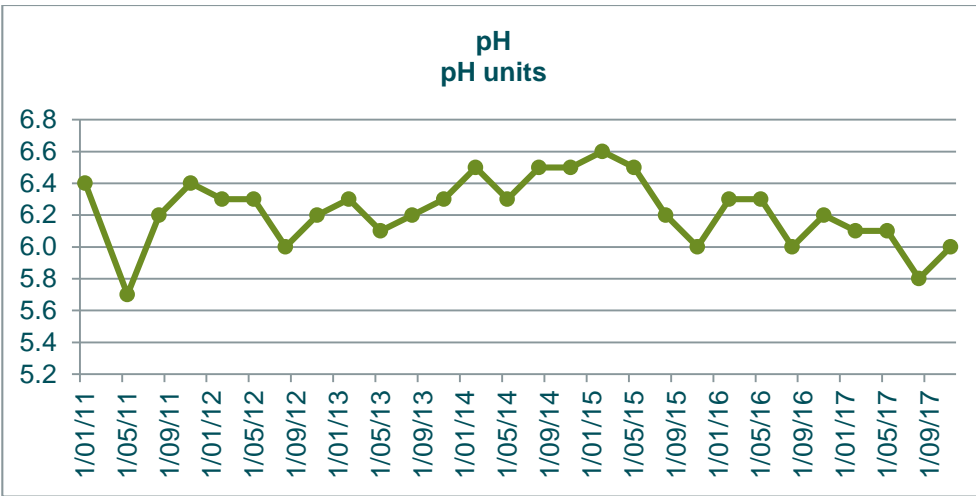
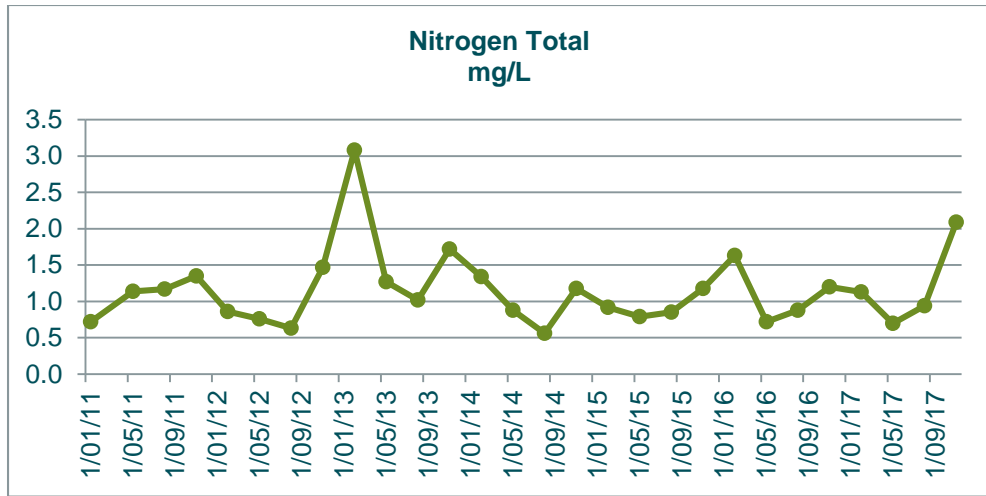




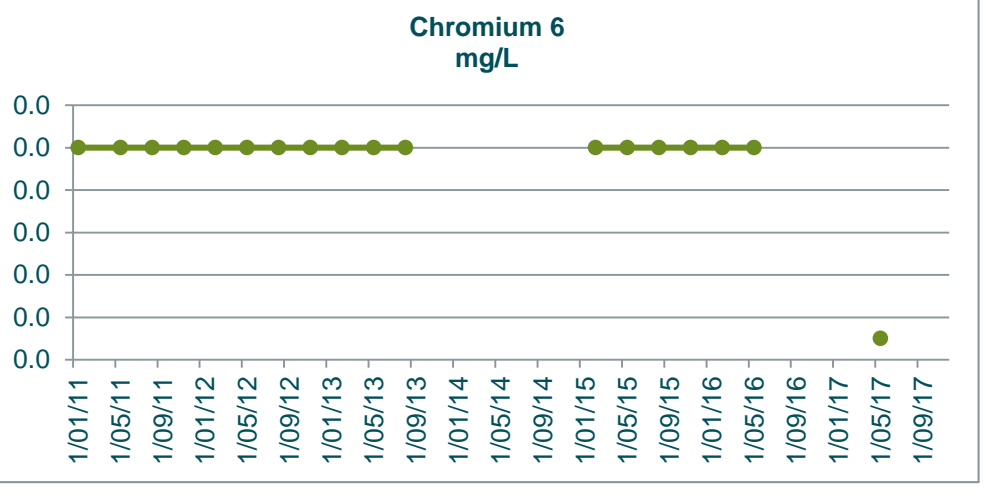
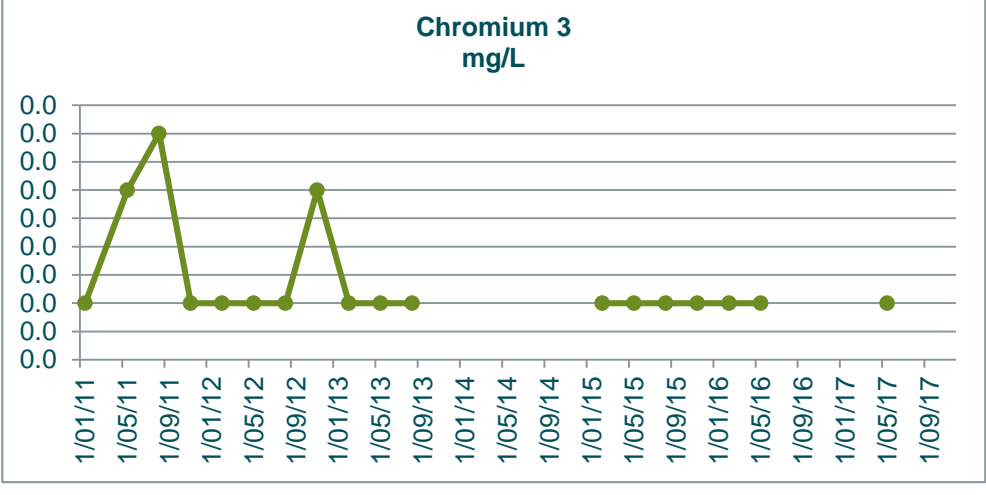
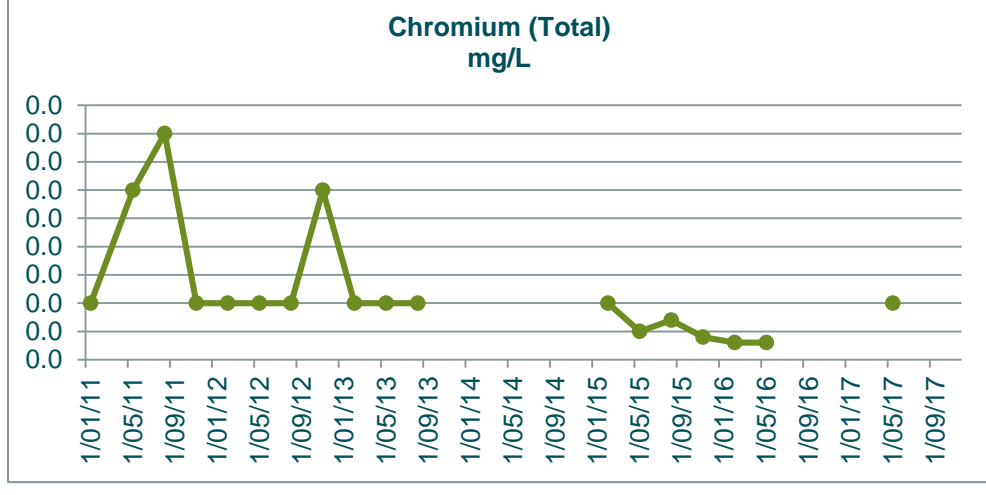
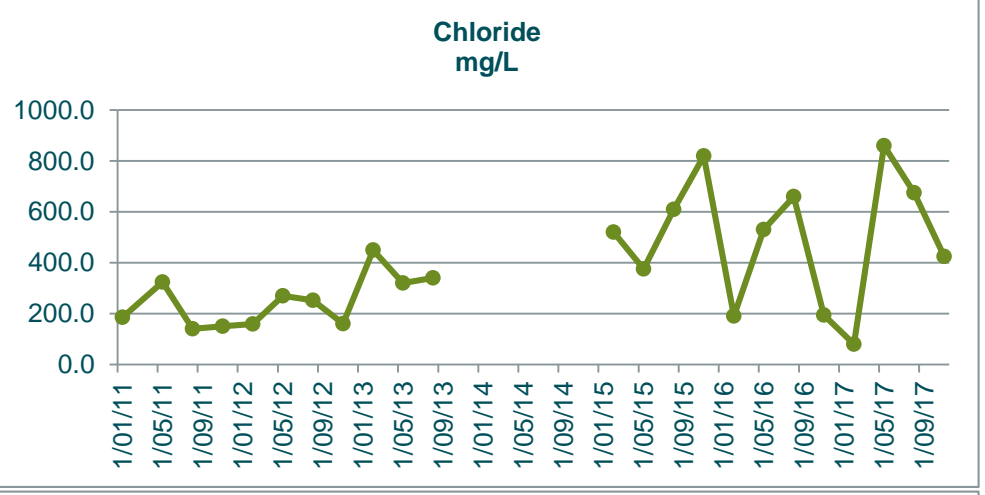
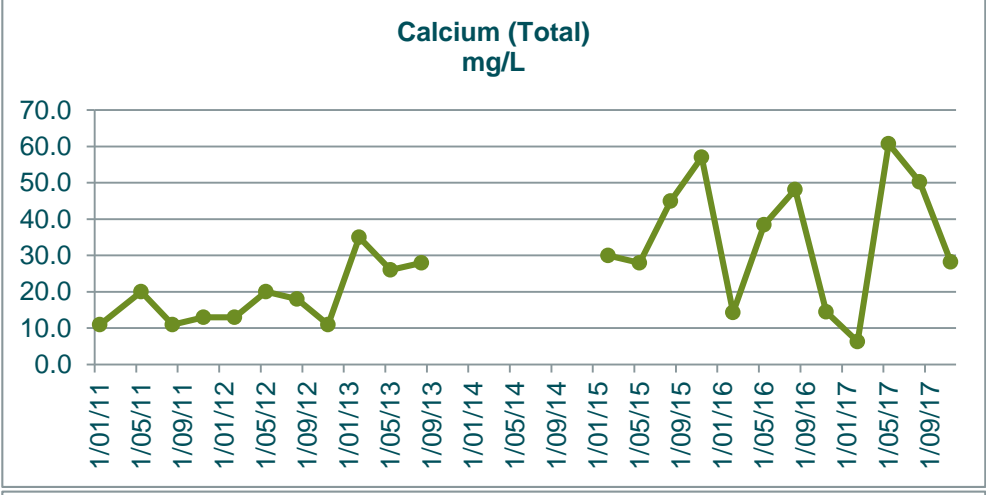
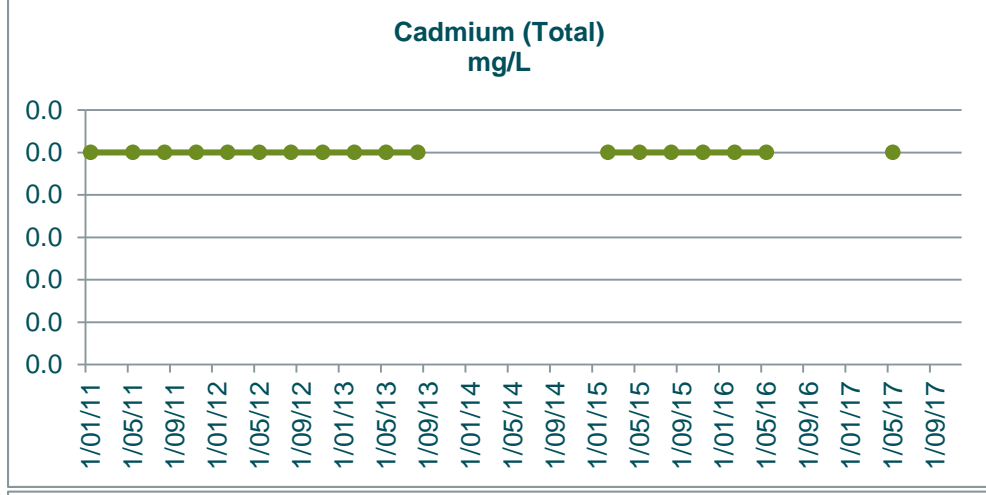
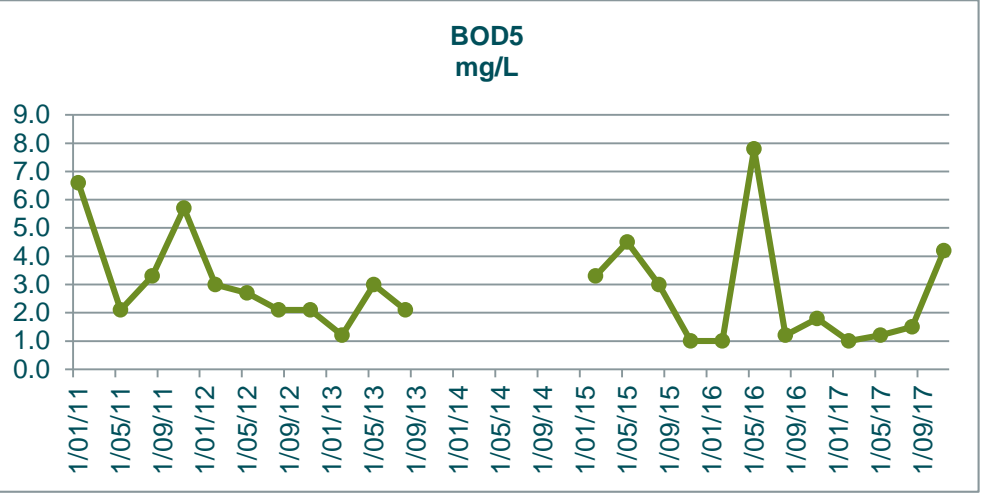
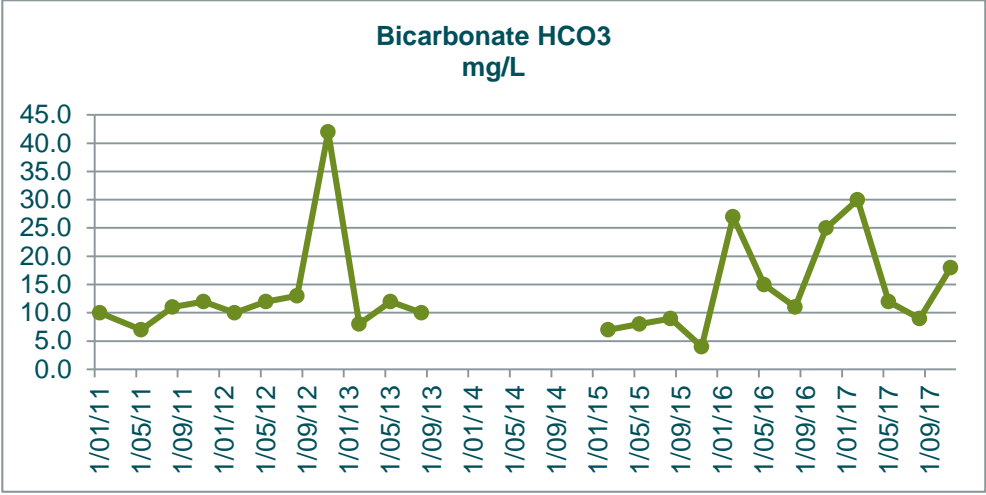
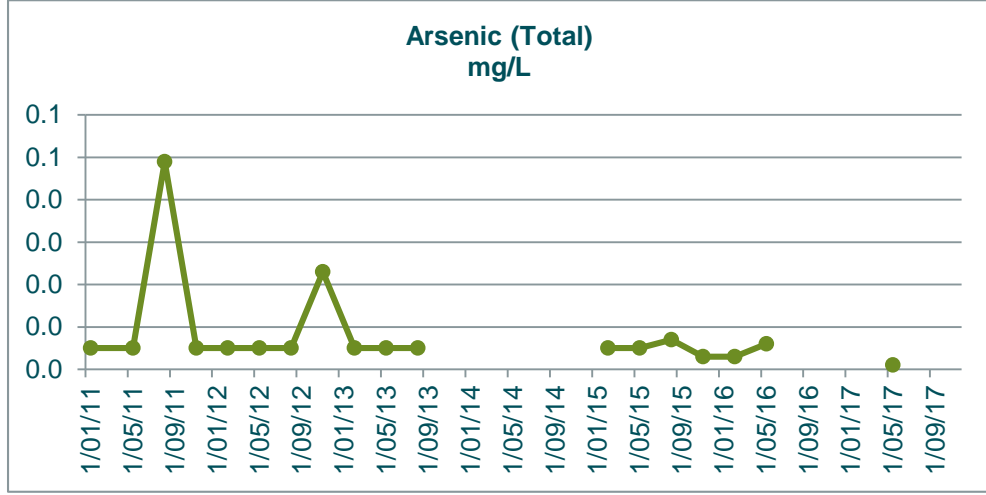
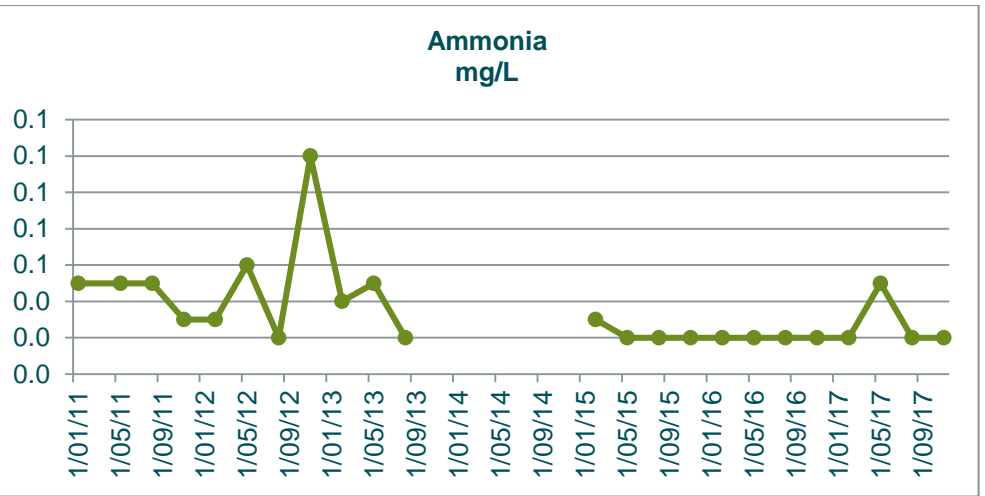
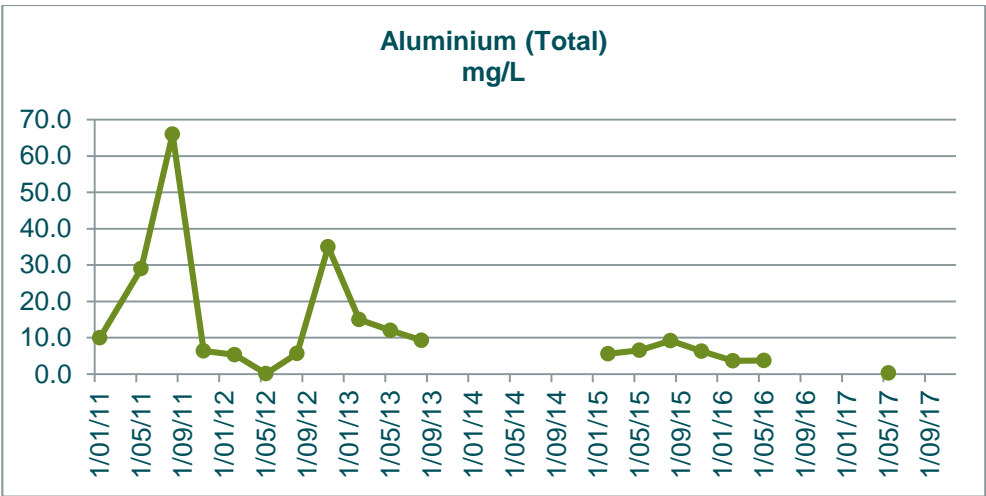
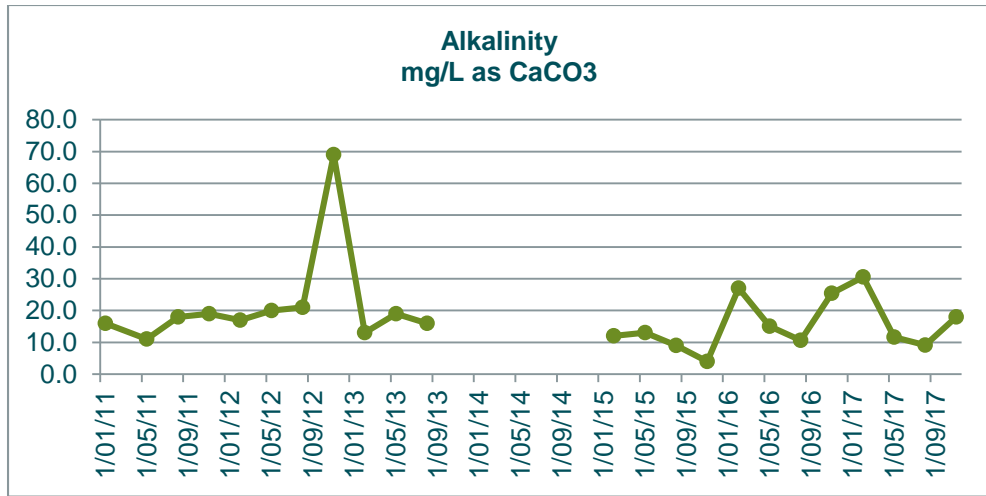
GW8	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L
31/01/11	55.0	35.0	0.1	0.0	34.0	1.6	0.0	5.7	99.0	0.0	0.0	0.0	438.0	0.1	2.1	0.2	80.0	0.0	5.0	0.6	0.0	0.1	0.1	0.1	0.7	6.4		0.2	5.0	-17.0	62.0	18.0	23.3	0.7	5.3	44.0	0.1
10/05/11	58.0	58.0	0.1	0.0	35.0	1.2	0.0	5.6	106.0	0.1	0.1	0.0	539.0	0.1	0.9	0.2	108.0	0.0	5.8	0.8	0.0	0.1	0.1	0.1	1.1	5.7		0.3	5.0	101.0	77.0	15.0	20.3	1.1	1.9	76.0	0.2
9/08/11	60.0	70.0	0.1	0.1	37.0	2.7	0.0	6.0	120.0	0.1	0.1	0.0	543.0	0.1	1.0	0.1	163.0	0.0	5.8	1.0	0.0	0.1	0.1	0.1	1.2	6.2		0.3	5.0	211.0	72.0	11.0	18.5	1.1	2.0	101.0	0.3
8/11/11	57.0	105.0	0.3	0.1	35.0	4.8	0.0	7.6	132.0	0.1	0.1	0.0	546.0	0.1	0.9	0.2	203.0	0.0	8.3	1.4	0.1	0.2	0.0	0.2	1.4	6.4		0.5	9.0	-34.6	57.0	16.0	20.5	1.1	1.5	95.0	0.4
6/02/12	62.0	37.0	0.2	0.0	38.0	1.8	0.0	6.7	109.0	0.0	0.0	0.0	520.0	0.0	1.9	0.2	70.0	0.0	7.2	0.7	0.0	0.1	0.0	0.1	0.9	6.3		0.2	5.0	102.0	87.0	12.0	22.5	0.7	1.3	65.0	0.3
8/05/12	60.0	0.0	0.2	0.0	37.0	3.3	0.0	11.0	110.0	0.0	0.0	0.0	541.0	0.0	3.3	0.1	0.1	0.0	13.0	0.1	0.0	0.2	0.0	0.2	0.8	6.3		0.2	7.0	219.0	86.0	26.0	21.0	0.6	1.1	60.0	0.1
6/08/12	46.0	27.0	0.1	0.2	28.0	1.0	0.0	6.3	109.0	0.0	0.0	0.0	544.0	0.0	3.4	0.2	46.0	0.0	6.2	0.5	0.0	0.1	0.0	0.1	0.6	6.0		0.3	5.0	70.0	61.0	13.0	18.4	0.5	0.5	44.0	0.1
13/11/12	65.0	140.0	0.2	0.1	40.0	3.3	0.0	6.4	93.0	0.2	0.2	0.0	557.0	0.2	0.8	0.1	368.0	0.1	6.5	2.3	0.1	0.5	0.0	0.5	1.5	6.2		0.3	5.0	4.0	72.0	15.0	20.5	1.0	1.4	94.0	0.9
13/02/13	48.0	59.0	0.3	0.0	29.0	1.2	0.0	7.0	100.0	0.1	0.1	0.0	529.0	0.1	3.6	0.1	92.0	0.0	7.0	0.7	0.0	0.2	0.0	0.2	3.1	6.3		0.4	5.0	-30.0	77.0	12.0	218.0	2.9	0.7	50.0	0.2
14/05/13	41.0	81.0	0.2	0.0	25.0	1.8	0.0	5.2	88.0	0.1	0.1	0.0	463.0	0.1	2.7	0.1	106.0	0.1	4.9	0.7	0.0	0.2	0.0	0.2	1.3	6.1		0.2	5.0	17.0	69.0	19.0	20.4	1.0	1.2	140.0	0.2
6/08/13	47.0	71.0	0.0	0.1	29.0	1.2	0.0	6.2	110.0	0.1	0.1	0.0	552.0	0.0	3.4	0.2	155.0	0.0	6.3	0.7	0.0	0.0	0.0	0.0	1.0	6.2		0.2	5.0	21.0	83.0	16.0	18.8	1.0	0.5	110.0	0.2
12/11/13	84.0	106.0	0.6	0.1	51.0	5.4	0.0	8.7	113.0	0.1	0.1	0.0	587.0	0.1	2.1	0.2	163.0	0.0	8.5	0.9	0.0	0.2	0.0	0.2	1.7	6.3		0.3	5.0	44.0	92.0	14.0	19.6	1.6	1.3	52.0	0.3
11/02/14	71.0	43.0	0.3	0.0	43.0	3.9	0.0	7.3	106.0	0.0	0.0	0.0	545.0	0.0	2.6	0.2	0.2	0.0	7.6	0.0	0.0	0.1	0.0	0.1	1.3	6.5		0.1	5.0	-68.0	84.0	13.0	21.3	1.2	1.6	175.0	0.2
13/05/14	56.0	30.0	0.2	0.0	34.0	3.6	0.0	5.5	107.0	0.0	0.0	0.0	547.0	0.0	3.0	0.2	77.0	0.0	5.9	0.4	0.0	0.1	0.0	0.1	0.9	6.3		0.2	5.0	-77.0	70.0	12.0	21.0	0.8	1.0	64.0	0.1
12/08/14	50.0	24.0	0.1	0.1	30.0	1.8	0.0	6.2	105.0	0.0	0.0	0.0	490.0	0.0	3.8	0.2	107.0	0.0	6.7	0.6	0.0	0.1	0.0	0.1	0.6	6.5		0.2	5.0	-7.0	77.0	15.0	18.2	0.5	0.5	101.0	0.1
10/11/14	63.0	27.0	0.1	0.1	38.0	1.5	0.0	6.9	106.0	0.0	0.0	0.0	512.0	0.0	3.0	0.2	95.0	0.0	7.4	0.5	0.0	0.0	0.0	0.1	1.2	6.5		0.2	5.0	-18.0	83.0	14.0	19.7	1.1	0.4	147.0	0.1
9/02/15	71.0	36.1	0.0	0.0	43.0	2.1	0.0	7.9	110.0	0.0	0.0	0.0	533.0	0.0	1.9	0.2	54.6	0.0	7.4	0.5	0.0	0.0	0.0	0.0	0.9	6.6		0.2	5.0	-31.0	84.0	10.0	22.4	0.9	0.6	64.0	0.1
11/05/15	53.0	55.0	0.0	0.0	32.0	1.5	0.0	7.8	104.0	0.1	0.1	0.0	522.0	0.0	3.2	0.2	66.2	0.0	7.6	0.6	0.0	0.0	0.0	0.0	0.8	6.5		0.2	5.0	19.0	88.0	12.0	21.4	0.8	0.7	73.0	0.2
11/08/15	43.0	31.3	0.0	0.1	43.0	1.0	0.0	6.7	110.0	0.0	0.0	0.0	476.0	0.0	4.7	0.2	97.6	0.0	6.6	0.7	0.0	0.0	0.0	0.0	0.9	6.2		0.1	5.0	48.0	78.0	15.0	18.8	0.8	0.7	72.0	0.1
10/11/15	37.0	26.2	0.0	0.0	37.0	1.0	0.0	4.8	79.0	0.0	0.0	0.0	303.0	0.0	2.4	0.0	46.7	0.0	4.7	0.4	0.0	0.4	0.0	0.4	1.2	6.0		0.1	5.0	-10.0	52.0	17.0	20.2	0.8	1.4	71.0	0.1
8/02/16	39.0	55.7	0.0	0.1	39.0	2.1	0.0	5.7	73.0	0.1	0.1	0.0	377.0	0.0	3.6	0.1	92.1	0.0	5.4	0.6	0.0	0.3	0.0	0.3	1.6	6.3		0.3	5.0	38.0	63.1	14.6	22.3	1.4	2.5	88.0	0.3
9/05/16	62.0	29.2	0.1	0.0	62.0	1.5	0.0	6.8	92.0	0.0	0.0	0.0	490.0	0.0	3.8	0.2	47.1	0.0	6.6	0.5	0.0	0.0	0.0	0.0	0.7	6.3		0.2	5.0	22.0	77.0	11.4	22.0	0.7	0.8	74.0	0.1
9/08/16	45.5		0.0		46.0	1.2		5.6	85.0				425.3		3.5	0.2			5.6			0.1	0.0	0.1	0.9	6.0		0.2	5.0	103.0	66.7	15.6	18.8	0.8	0.6	103.6	
7/11/16	70.3		0.1		70.0	2.1		6.9	110.0				513.6		2.6	0.2			6.8			0.0	0.0	0.0	1.2	6.2		0.2	5.0	128.0	80.4	12.4	19.9	1.2	1.9	94.0	
7/02/17	52.5		0.1		52.0	1.8		5.5	78.0				435.0		2.6	0.2			5.4			0.0	0.0	0.0	1.1	6.1		0.2	5.0	109.5	65.8	16.9	22.5	1.1	1.6	110.2	
8/05/17	60.8	28.1	0.0	0.1	61.0	2.1	0.0	6.3	93.0	0.0	0.0	0.0	459.3	0.0	3.0	0.1	53.7	0.0	6.1	0.5	0.0	0.0	0.0	0.0	0.7	6.1		0.2	5.0	153.9	72.9	14.4	21.2	0.7	0.7	65.6	0.1
8/08/17	50.3		0.0		50.0	1.5		5.8	90.0				481.9		3.8	0.2			5.7			0.0	0.0	0.0	0.9	5.8		0.2	5.0	216.5	73.2	12.8	18.8	0.9	0.6	48.1	
7/11/17	49.5		0.0		49.0	1.5		6.7	86.0				442.1		2.9	0.2			6.4			1.4	0.0	1.4	2.1	6.0		0.1	5.0	116.0	70.7	14.9	20.3	0.7	1.5	59.2	
2017 Min	49.5	28.1	0.0	0.1	49.0	1.5	0.0	5.5	78.0	0.0	0.0	0.0	435.0	0.0	2.6	0.1	53.7	0.0	5.4	0.5	0.0	0.0	0.0	0.0	0.7	5.8		0.1	5.0	109.5	65.8	12.8	18.8	0.7	0.6	48.1	0.1
2017 Max	60.8	28.1	0.1	0.1	61.0	2.1	0.0	6.7	93.0	0.0	0.0	0.0	481.9	0.0	3.8	0.2	53.7	0.0	6.4	0.5	0.0	1.4	0.0	1.4	2.1	6.1		0.2	5.0	216.5	73.2	16.9	22.5	1.1	1.6	110.2	0.1
2017 Mean	53.3	28.1	0.0	0.1	53.0	1.7	0.0	6.1	86.8	0.0	0.0	0.0	454.6	0.0	3.1	0.2	53.7	0.0	5.9	0.5	0.0	0.4	0.0	0.4	1.2	6.0		0.2	5.0	149.0	70.7	14.8	20.7	0.8	1.1	70.8	0.1

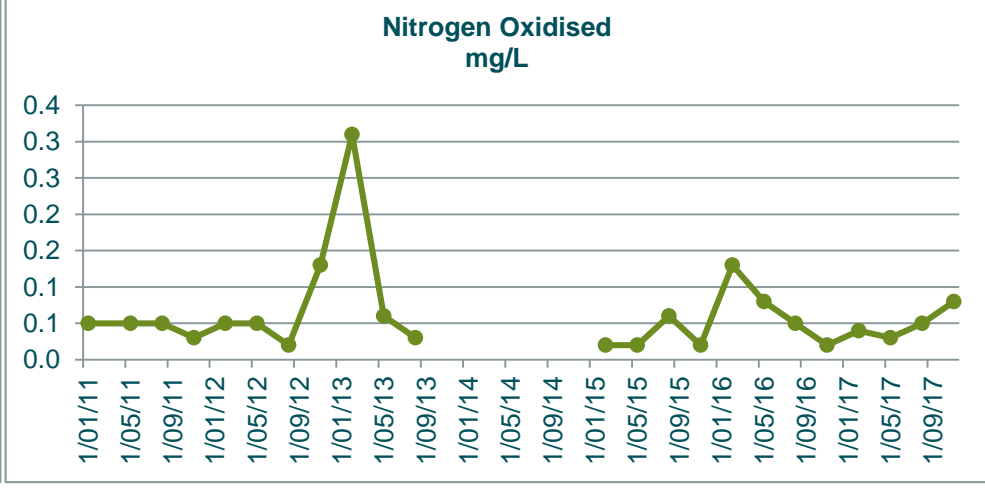
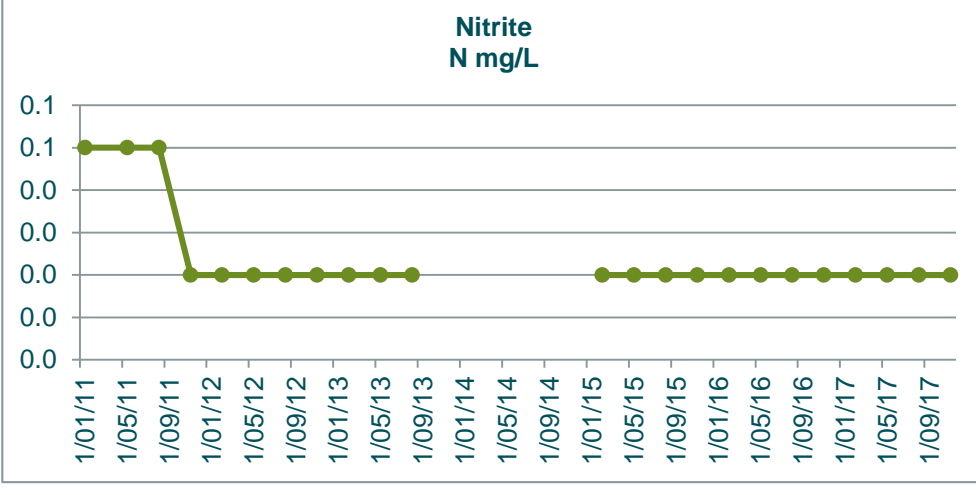
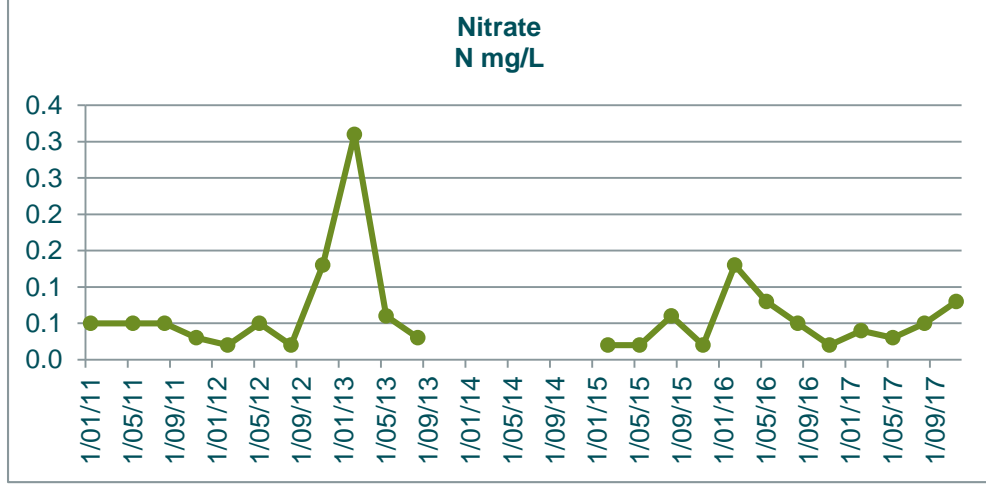
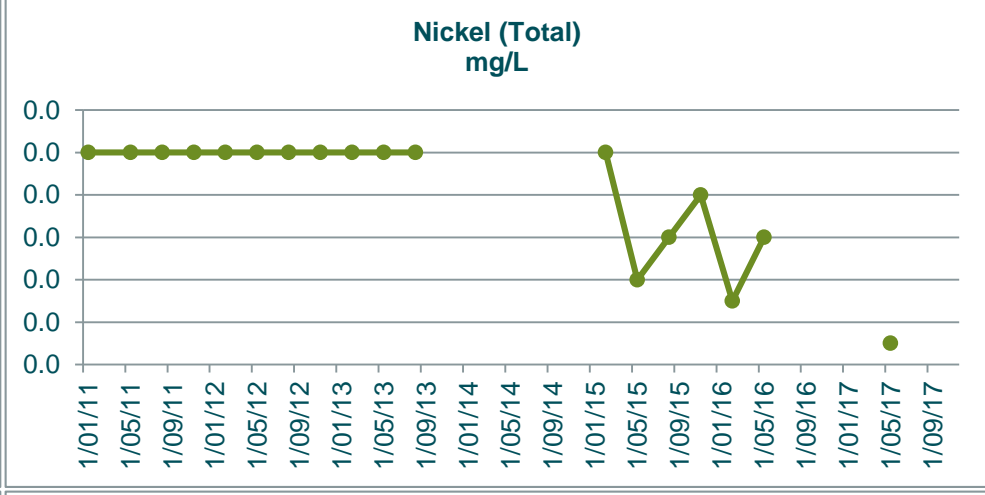
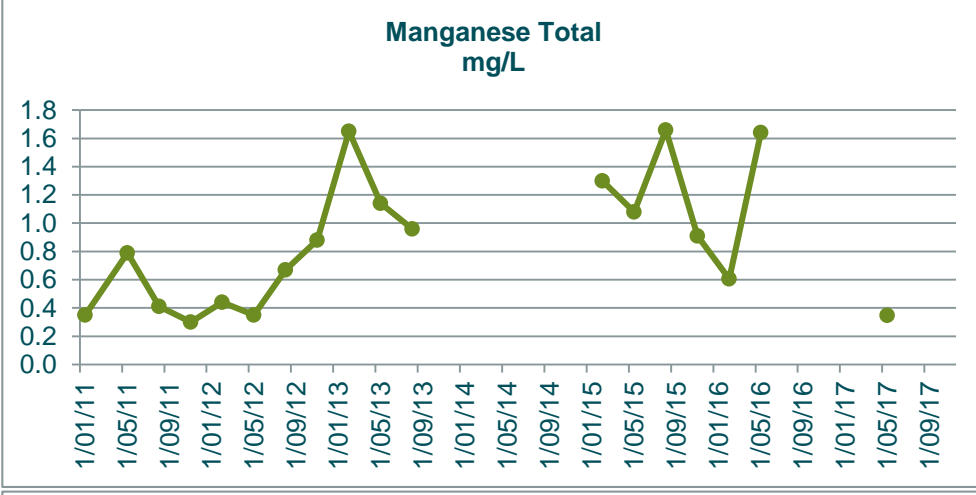
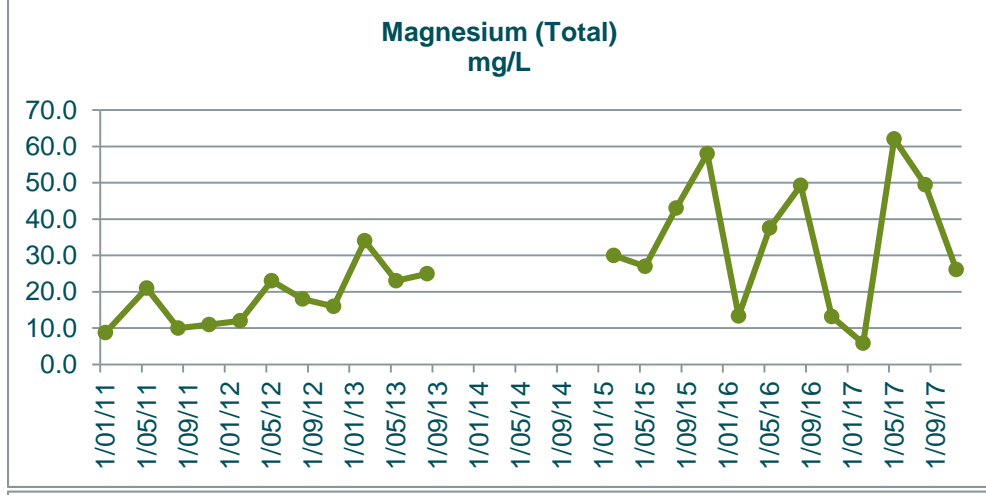
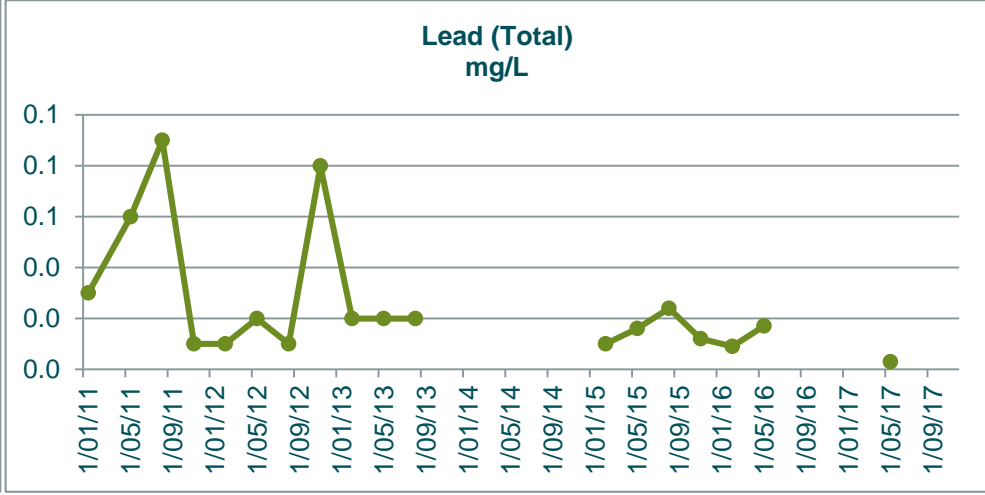
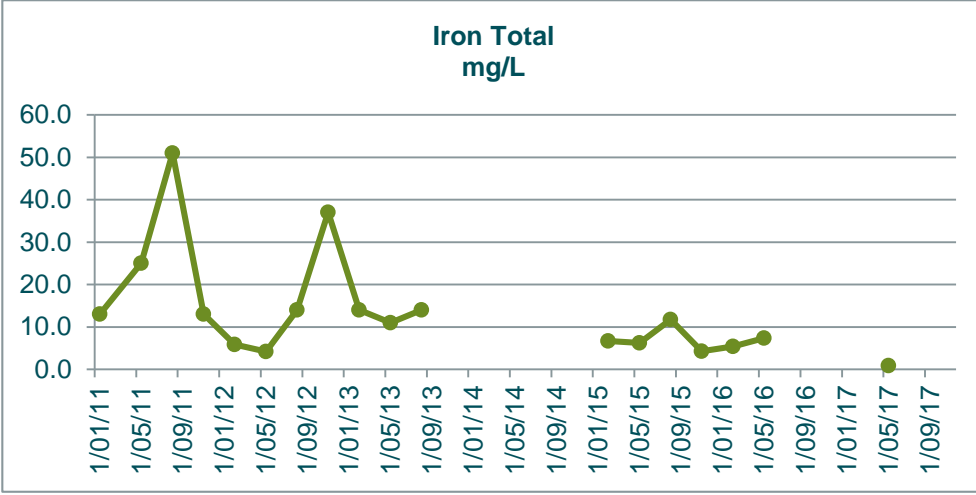
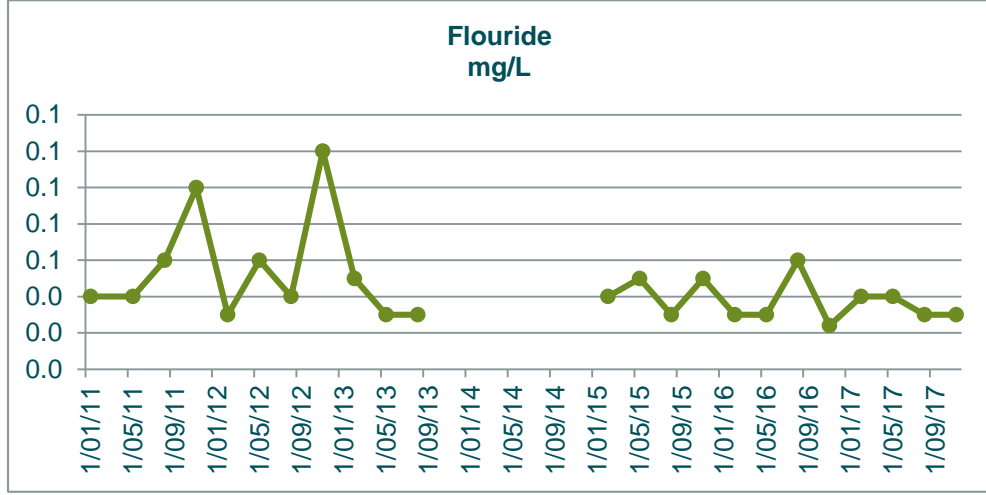
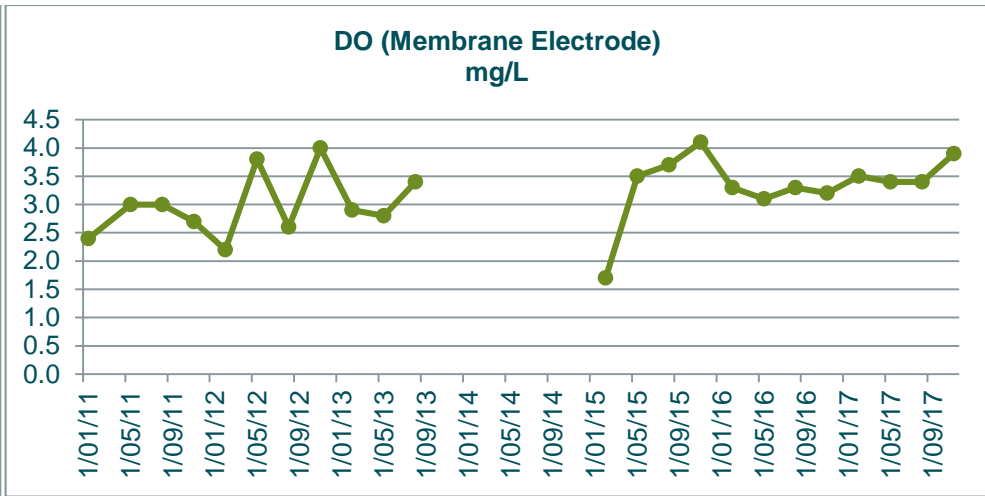
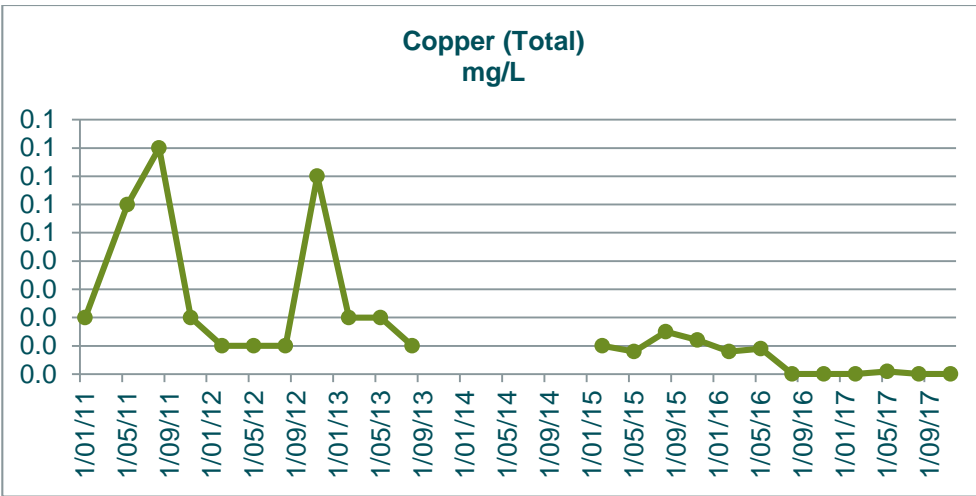
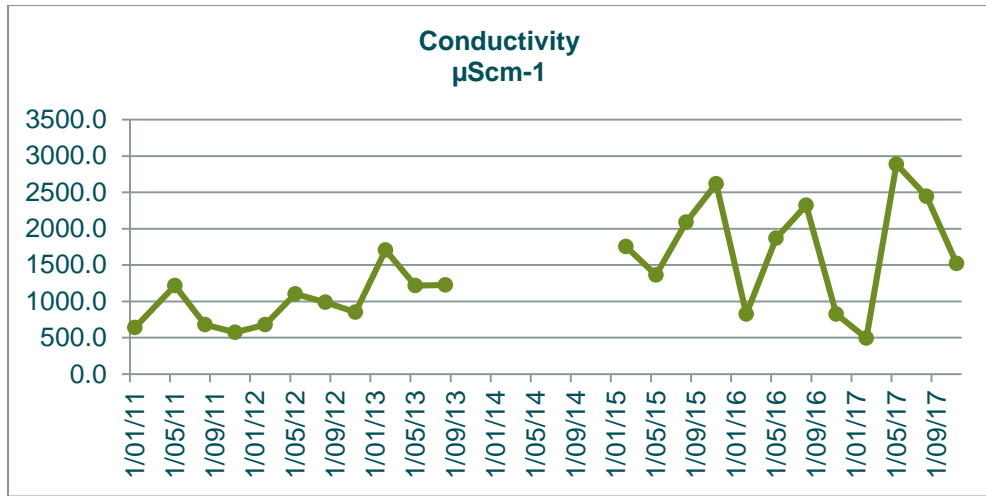


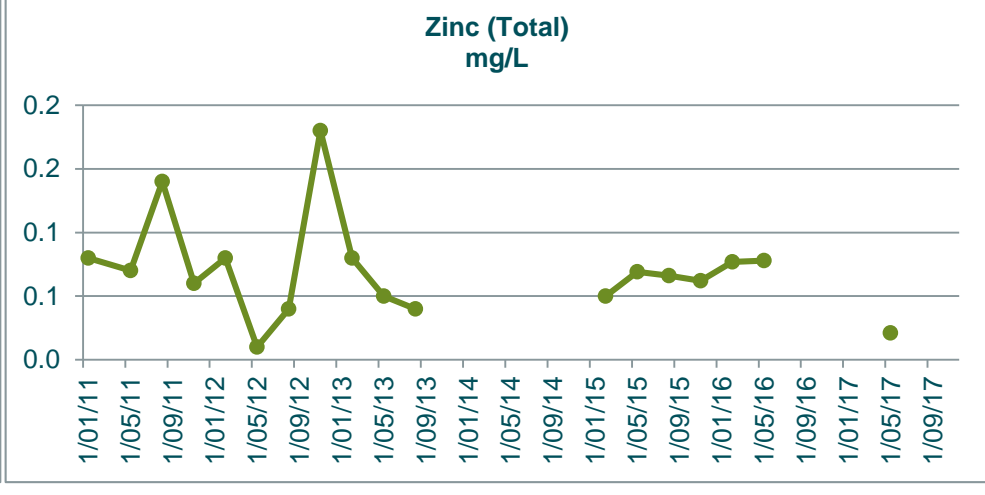
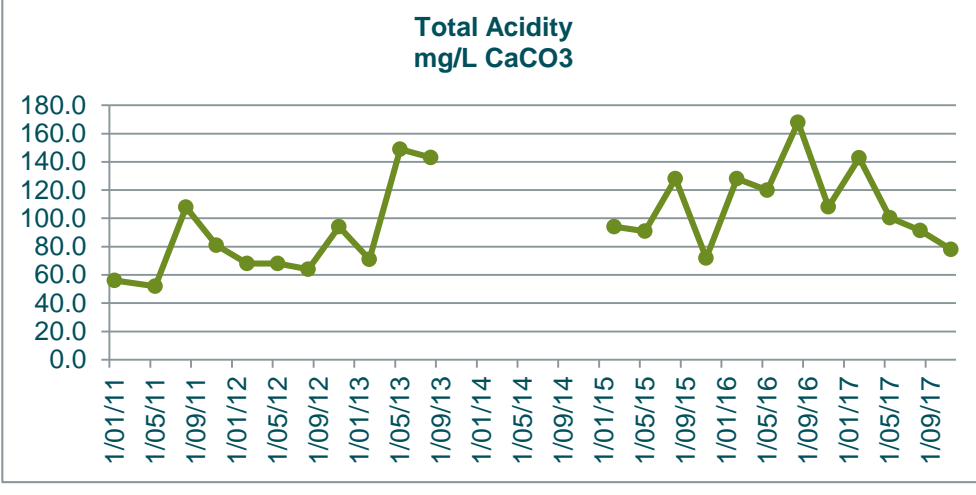
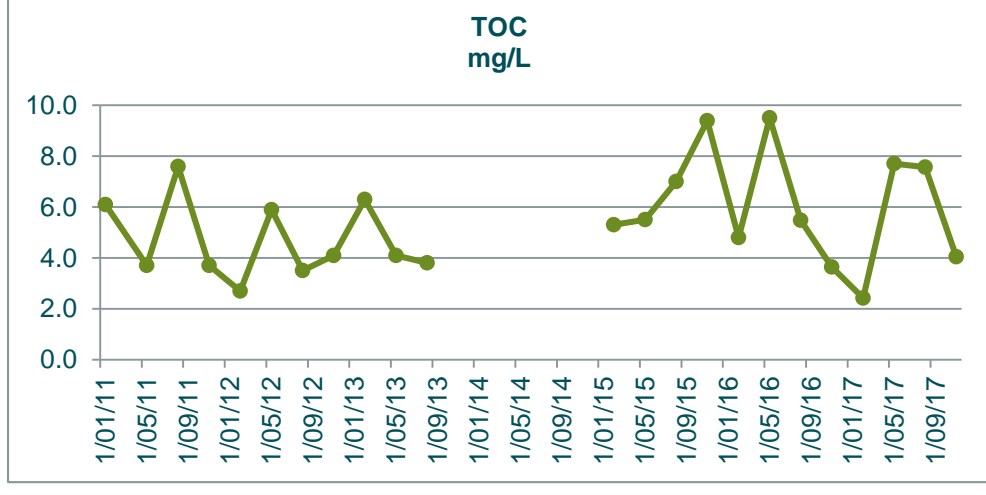
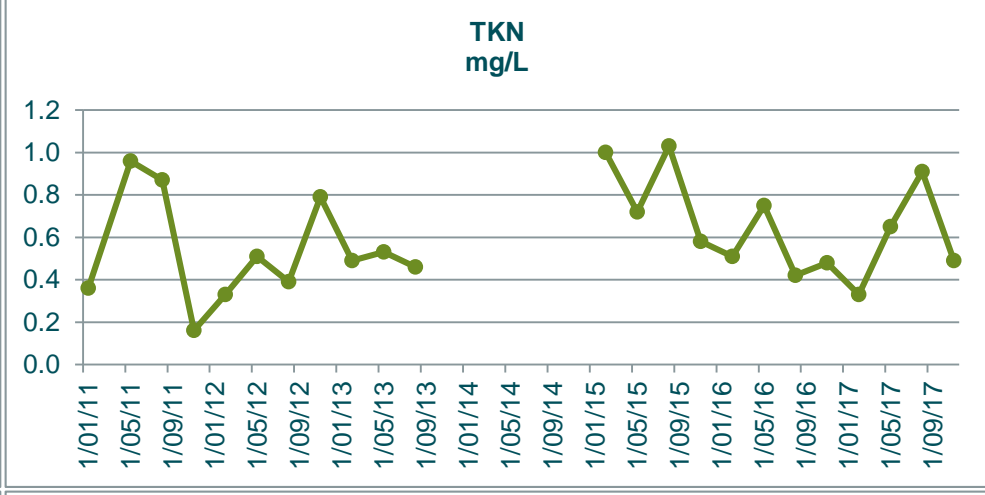
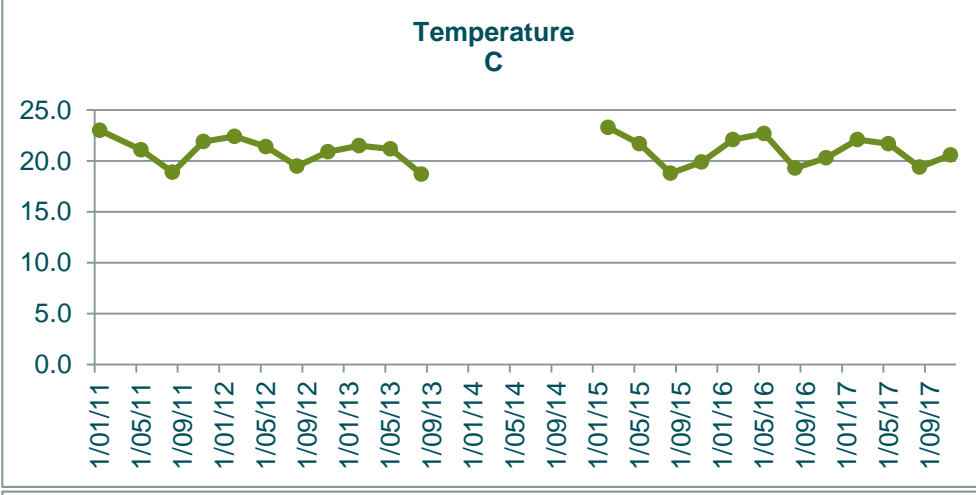
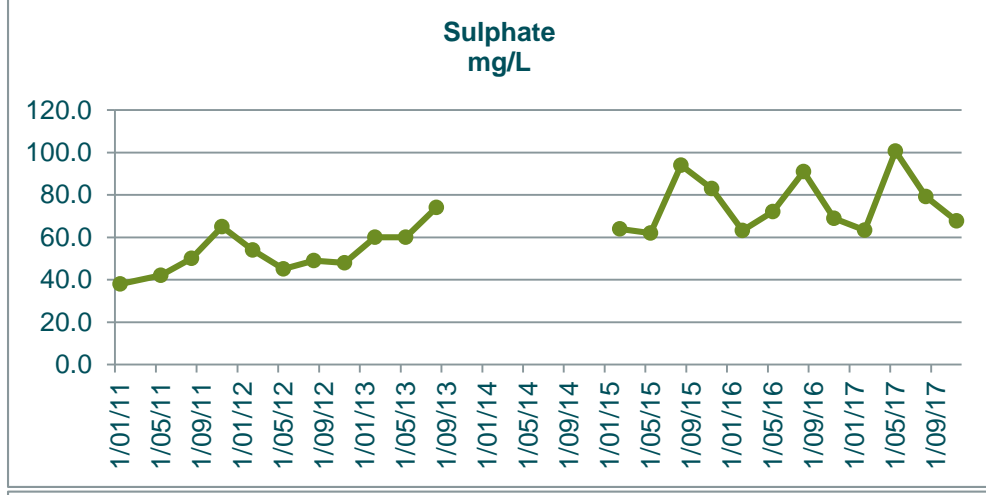
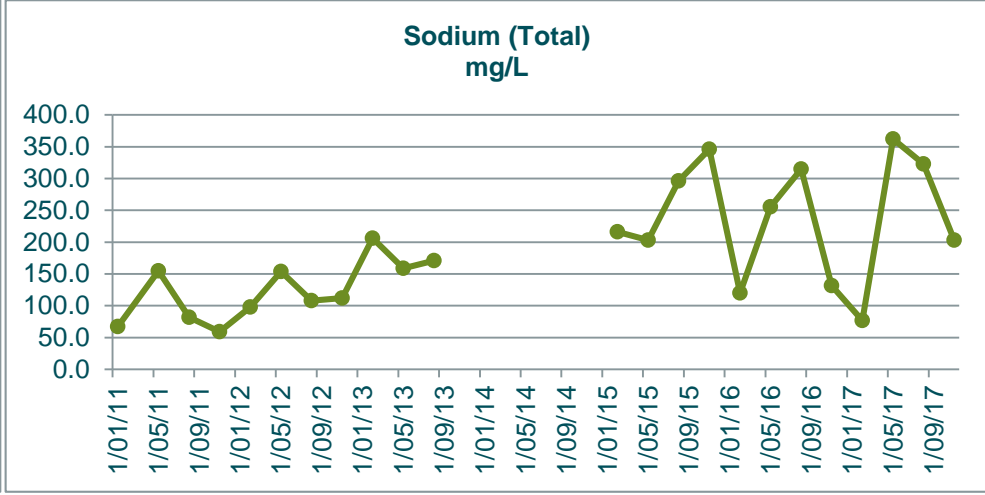
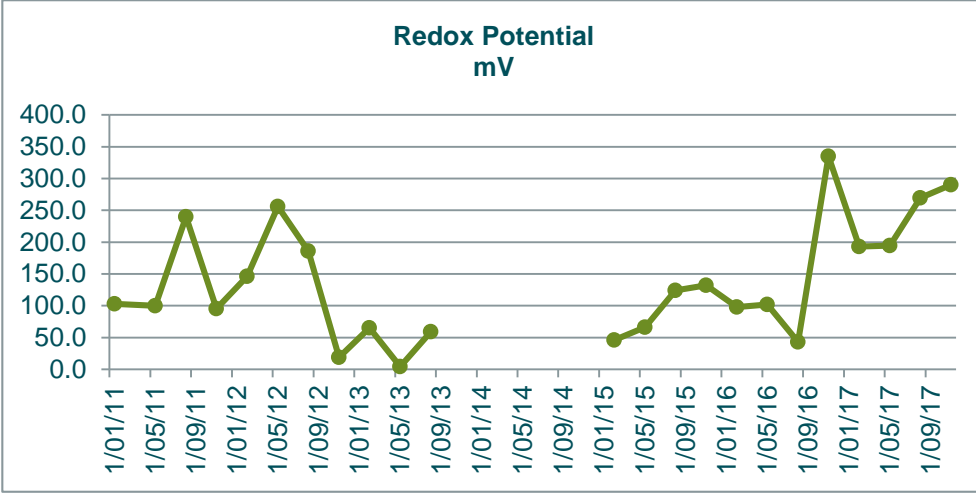
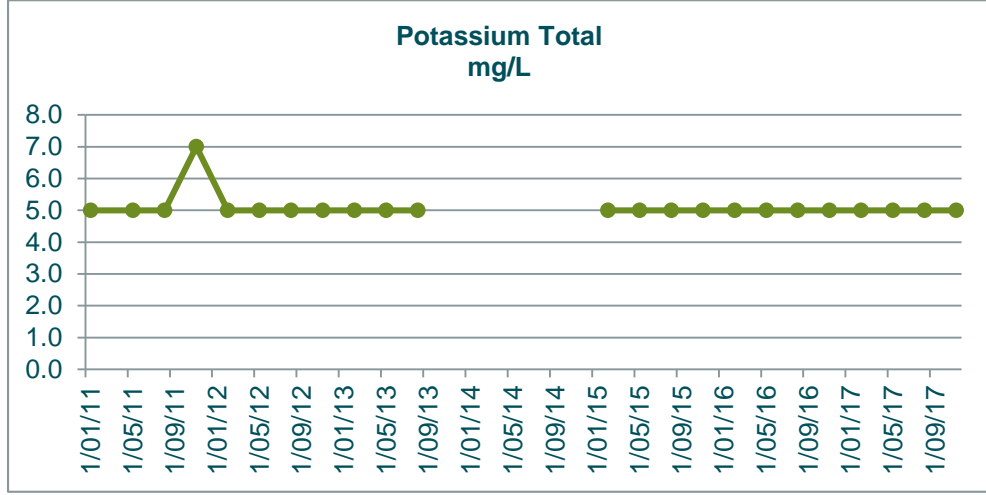
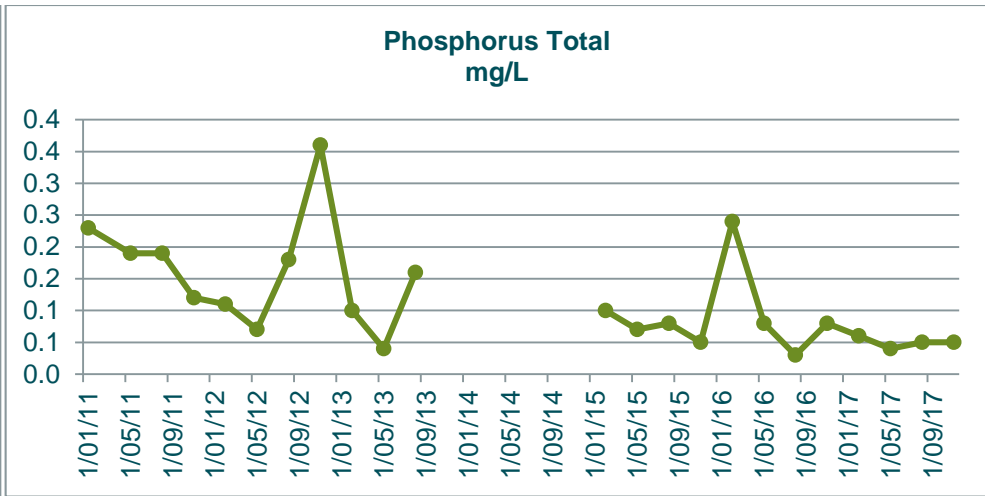
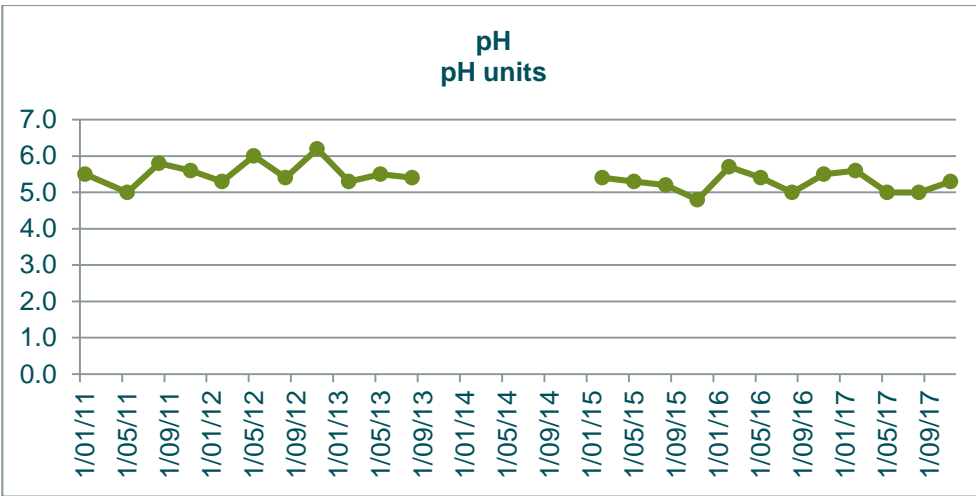
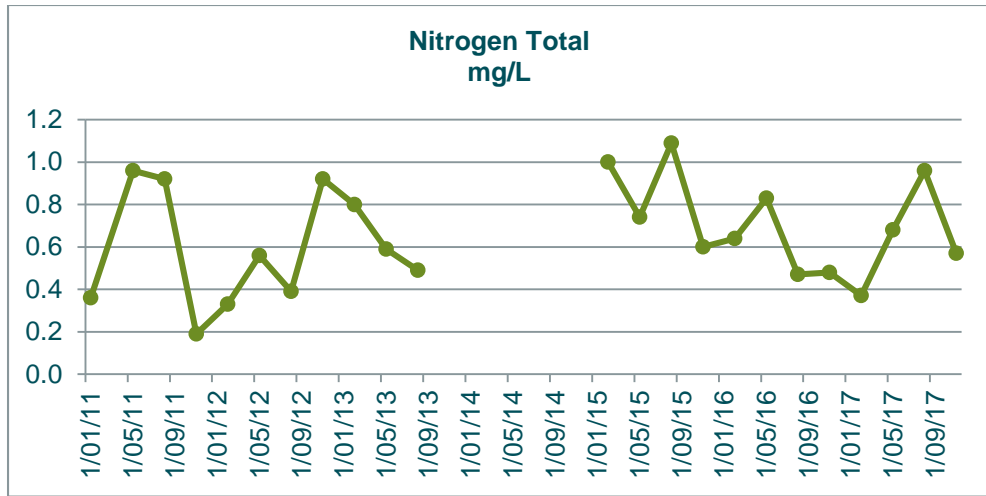




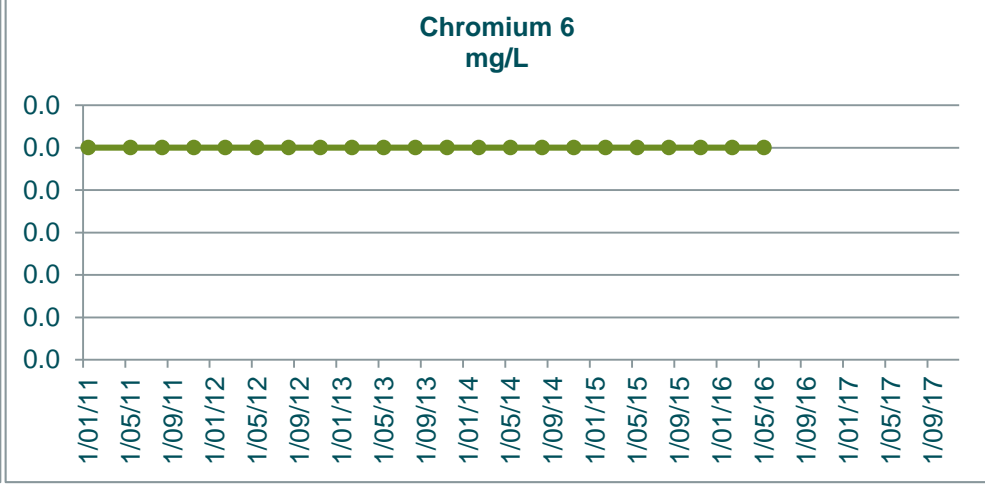
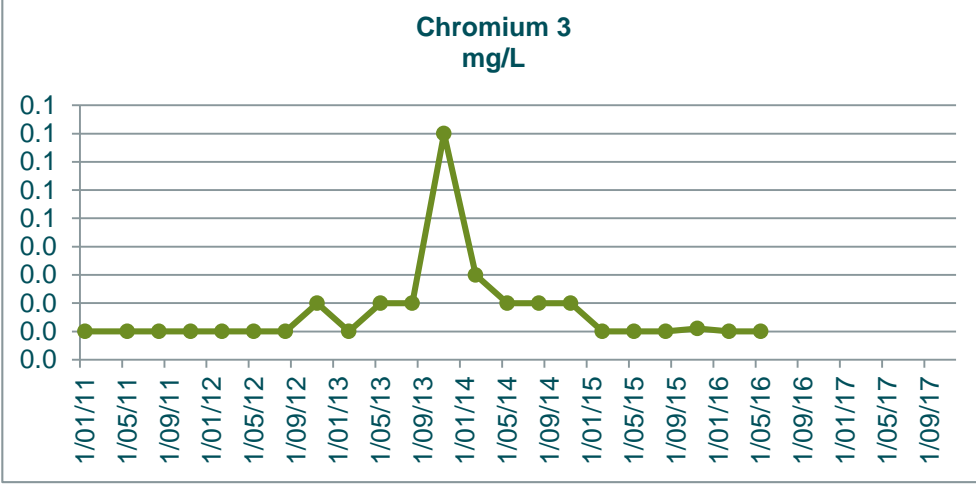
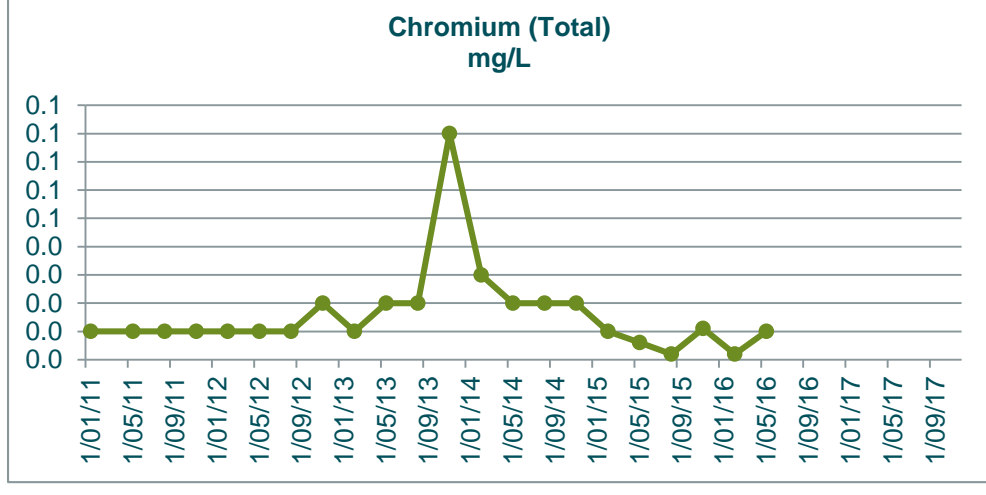
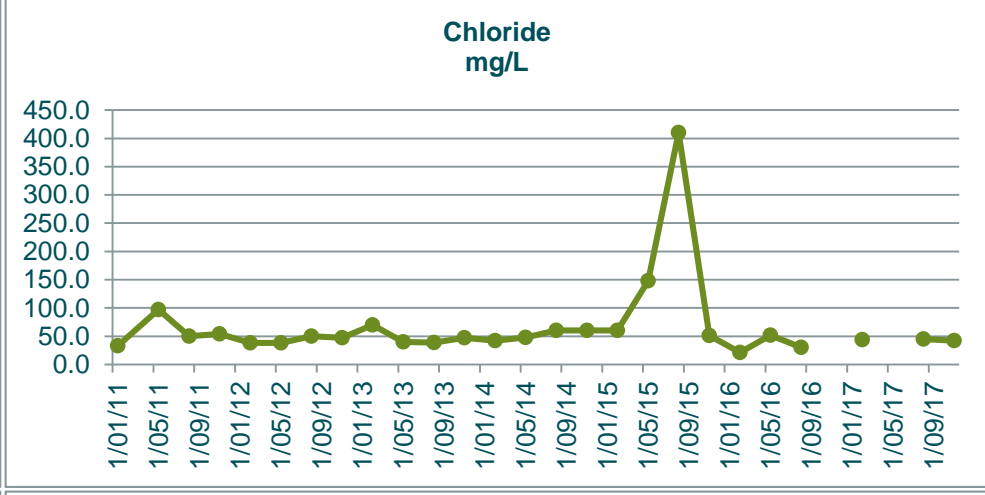
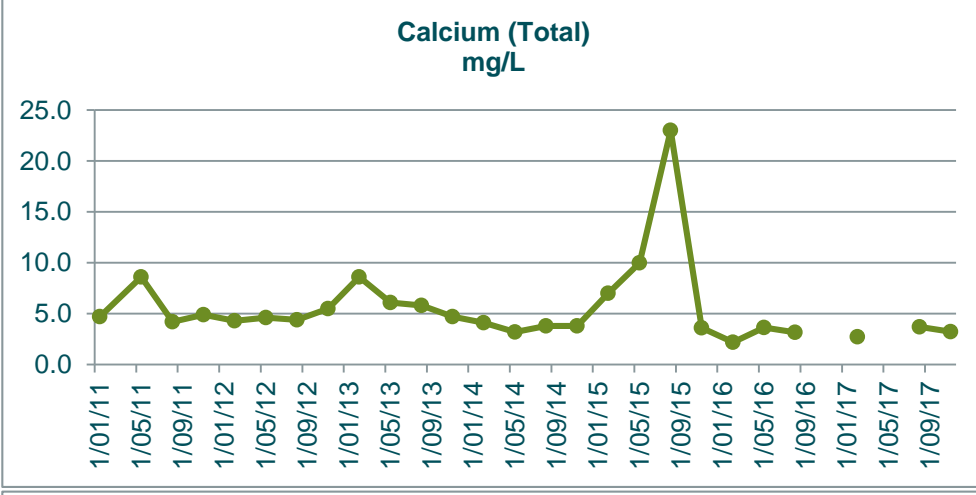
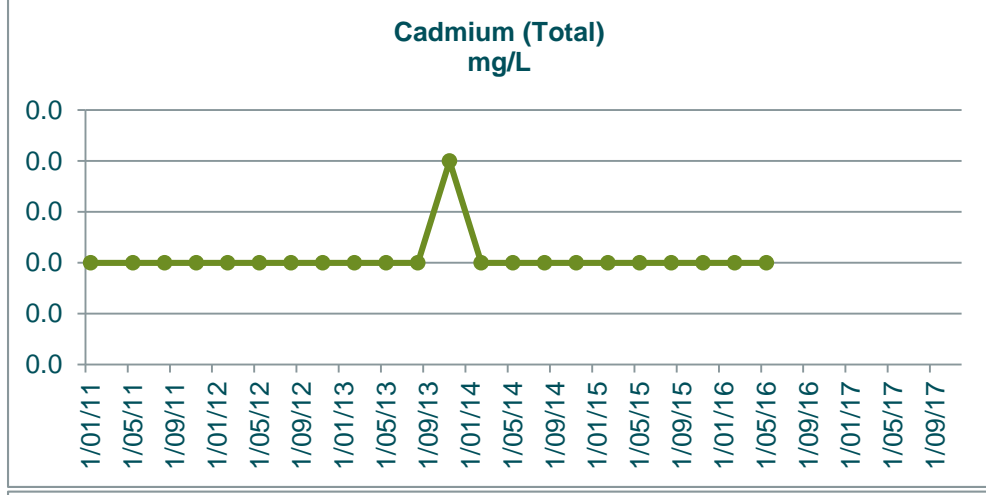
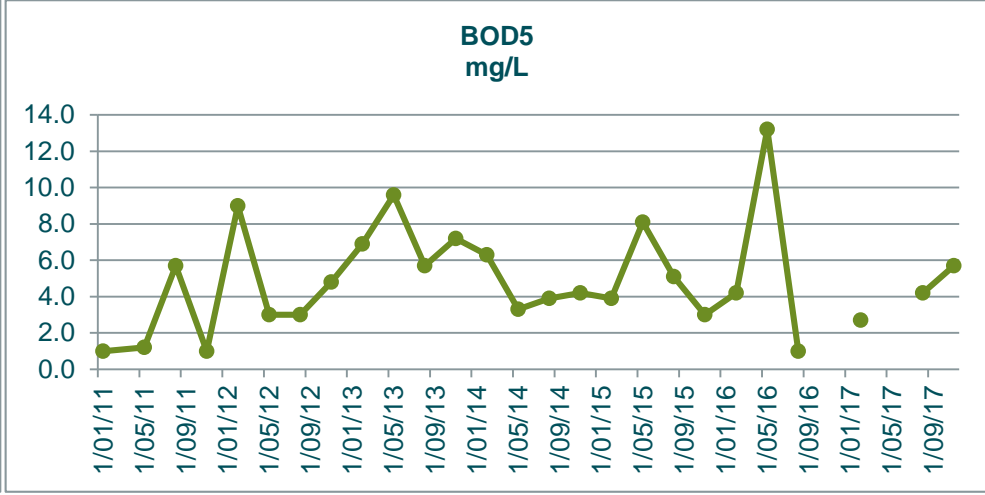
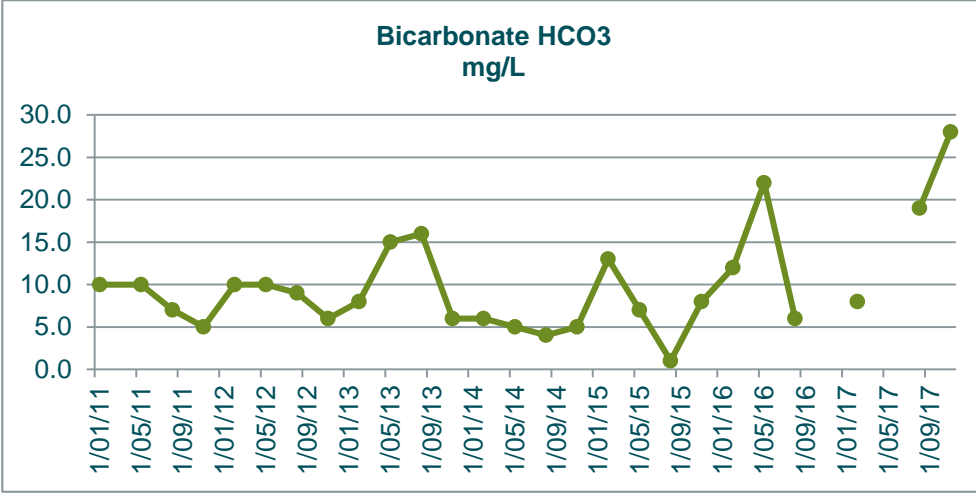
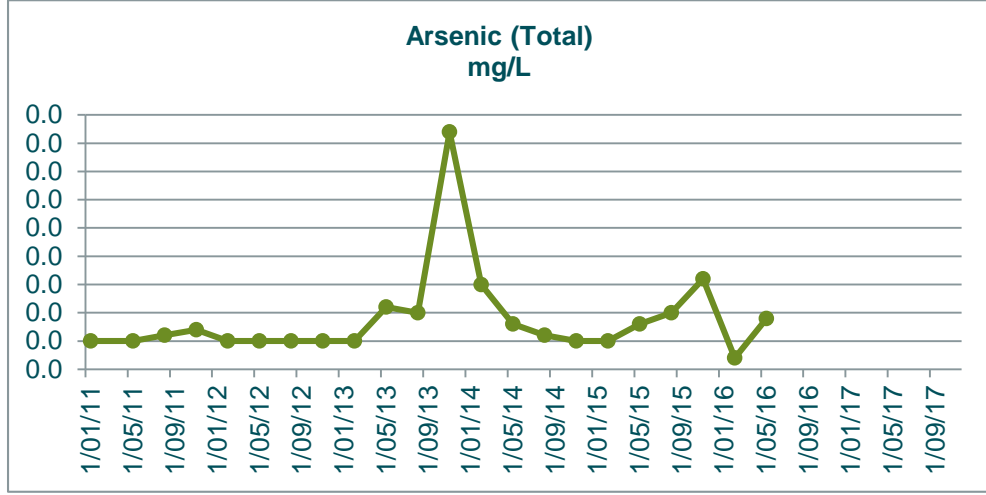
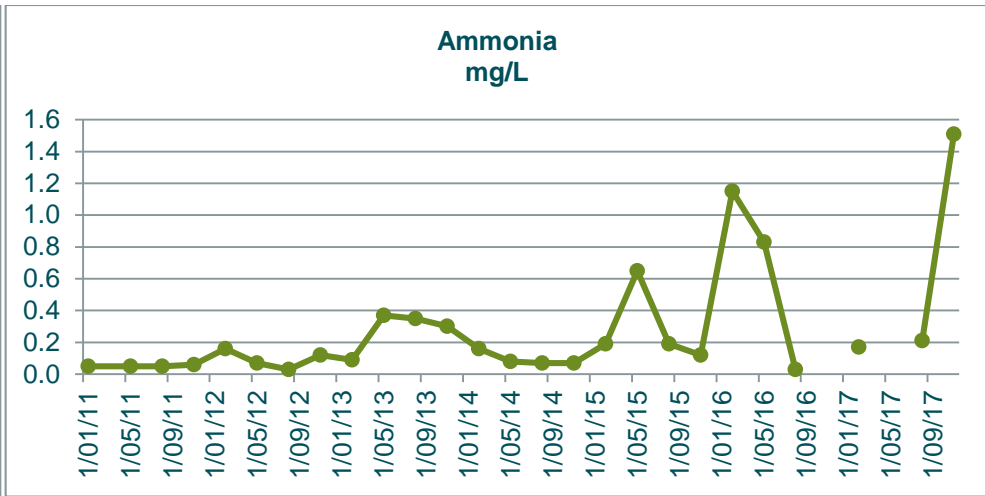
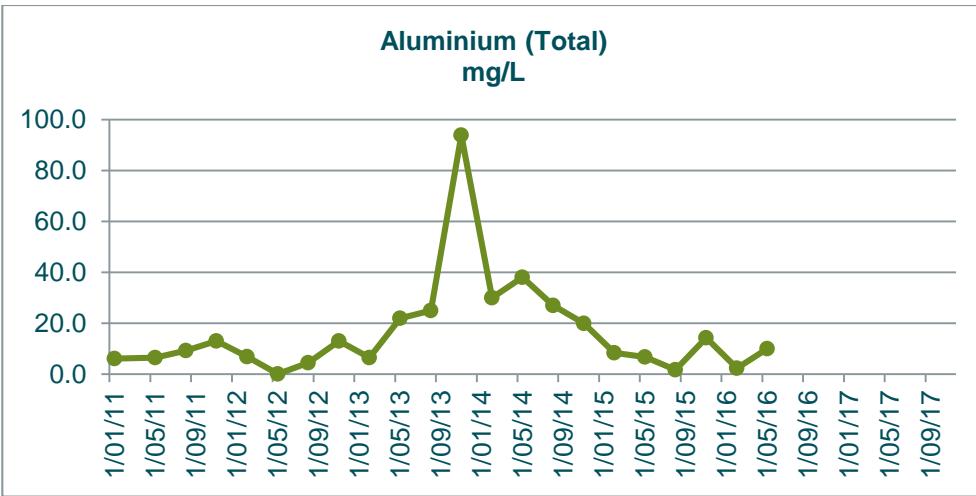
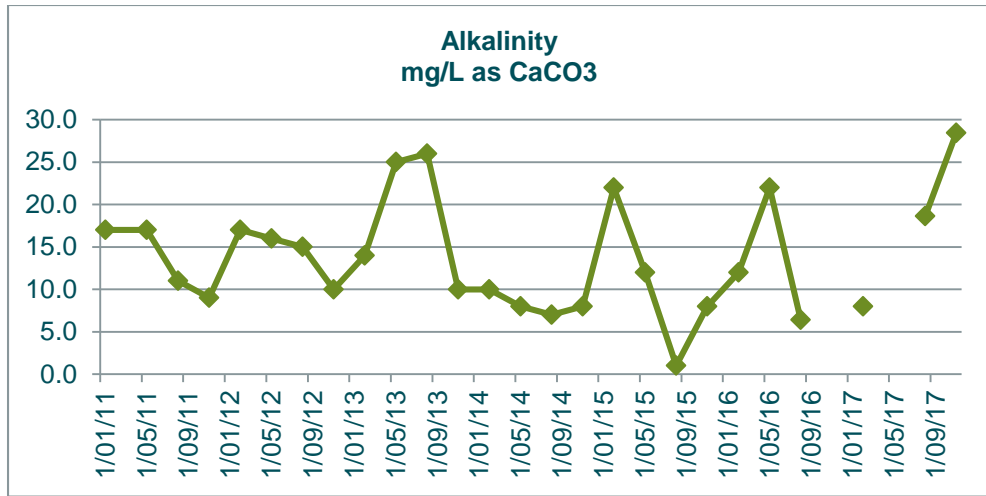
GW9	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L	
31/01/11	16.0	10.0	0.1	0.0	10.0	6.6	0.0	11.0	185.0	0.0	0.0	0.0	639.0	0.0	2.4	0.0	13.0	0.0	8.8	0.4	0.0	0.1	0.1	0.1	0.4	5.5		0.2	5.0	103.0	67.0	38.0	23.0	0.4	6.1	56.0	0.1	
10/05/11	11.0	29.0	0.1	0.0	7.0	2.1	0.0	20.0	324.0	0.0	0.0	0.0	1216.0	0.1	3.0	0.0	25.0	0.1	21.0	0.8	0.0	0.1	0.1	0.1	1.0	5.0		0.2	5.0	100.0	155.0	42.0	21.1	1.0	3.7	52.0	0.1	
9/08/11	18.0	66.0	0.1	0.0	11.0	3.3	0.0	11.0	140.0	0.0	0.0	0.0	680.0	0.1	3.0	0.1	51.0	0.1	10.0	0.4	0.0	0.1	0.1	0.1	0.9	5.8		0.2	5.0	240.0	82.0	50.0	18.9	0.9	7.6	108.0	0.1	
8/11/11	19.0	6.4	0.0	0.0	12.0	5.7	0.0	13.0	150.0	0.0	0.0	0.0	576.0	0.0	2.7	0.1	13.0	0.0	11.0	0.3	0.0	0.0	0.0	0.0	0.2	5.6		0.1	7.0	95.3	59.0	65.0	21.9	0.2	3.7	81.0	0.1	
6/02/12	17.0	5.3	0.0	0.0	10.0	3.0	0.0	13.0	159.0	0.0	0.0	0.0	679.0	0.0	2.2	0.0	5.9	0.0	12.0	0.4	0.0	0.0	0.0	0.1	0.3	5.3		0.1	5.0	146.0	98.0	54.0	22.4	0.3	2.7	68.0	0.1	
8/05/12	20.0	0.1	0.1	0.0	12.0	2.7	0.0	20.0	270.0	0.0	0.0	0.0	1101.0	0.0	3.8	0.1	4.2	0.0	23.0	0.4	0.0	0.1	0.0	0.1	0.6	6.0		0.1	5.0	256.0	154.0	45.0	21.4	0.5	5.9	68.0	0.0	
6/08/12	21.0	5.7	0.0	0.0	13.0	2.1	0.0	18.0	252.0	0.0	0.0	0.0	990.0	0.0	2.6	0.0	14.0	0.0	18.0	0.7	0.0	0.0	0.0	0.0	0.4	5.4		0.2	5.0	186.0	108.0	49.0	19.5	0.4	3.5	64.0	0.0	
13/11/12	69.0	35.0	0.1	0.0	42.0	2.1	0.0	11.0	160.0	0.0	0.0	0.0	854.0	0.1	4.0	0.1	37.0	0.1	16.0	0.9	0.0	0.1	0.0	0.1	0.9	6.2		0.4	5.0	19.0	112.0	48.0	20.9	0.8	4.1	94.0	0.2	
13/02/13	13.0	15.0	0.0	0.0	8.0	1.2	0.0	35.0	450.0	0.0	0.0	0.0	1705.0	0.0	2.9	0.1	14.0	0.0	34.0	1.7	0.0	0.3	0.0	0.3	0.8	5.3		0.1	5.0	65.0	206.0	60.0	21.5	0.5	6.3	71.0	0.1	
14/05/13	19.0	12.0	0.1	0.0	12.0	3.0	0.0	26.0	320.0	0.0	0.0	0.0	1218.0	0.0	2.8	0.0	11.0	0.0	23.0	1.1	0.0	0.1	0.0	0.1	0.6	5.5		0.0	5.0	4.0	159.0	60.0	21.2	0.5	4.1	149.0	0.1	
6/08/13	16.0	9.3	0.0	0.0	10.0	2.1	0.0	28.0	340.0	0.0	0.0	0.0	1226.0	0.0	3.4	0.0	14.0	0.0	25.0	1.0	0.0	0.0	0.0	0.0	0.5	5.4		0.2	5.0	59.0	171.0	74.0	18.7	0.5	3.8	143.0	0.0	
12/11/13																																						
11/02/14																																						
13/05/14																																						
12/08/14																																						
10/11/14																																						
9/02/15	12.0	5.6	0.0	0.0	7.0	3.3	0.0	30.0	520.0	0.0	0.0	0.0	1754.0	0.0	1.7	0.0	6.7	0.0	30.0	1.3	0.0	0.0	0.0	0.0	1.0	5.4		0.1	5.0	46.0	216.0	64.0	23.3	1.0	5.3	94.0	0.1	
11/05/15	13.0	6.6	0.0	0.0	8.0	4.5	0.0	28.0	375.0	0.0	0.0	0.0	1363.0	0.0	3.5	0.1	6.2	0.0	27.0	1.1	0.0	0.0	0.0	0.0	0.7	5.3		0.1	5.0	66.0	203.0	62.0	21.7	0.7	5.5	91.0	0.1	
11/08/15	9.0	9.2	0.0	0.0	9.0	3.0	0.0	45.0	610.0	0.0	0.0	0.0	2090.0	0.0	3.7	0.0	11.7	0.0	43.0	1.7	0.0	0.1	0.0	0.1	1.1	5.2		0.1	5.0	124.0	296.0	94.0	18.8	1.0	7.0	128.0	0.1	
10/11/15	4.0	6.3	0.0	0.0	4.0	1.0	0.0	57.0	820.0	0.0	0.0	0.0	2620.0	0.0	4.1	0.1	4.2	0.0	58.0	0.9	0.0	0.0	0.0	0.0	0.6	4.8		0.1	5.0	132.0	346.0	83.0	19.9	0.6	9.4	72.0	0.1	
8/02/16	27.0	3.7	0.0	0.0	27.0	1.0	0.0	14.3	190.0	0.0	0.0	0.0	826.0	0.0	3.3	0.0	5.4	0.0	13.3	0.6	0.0	0.1	0.0	0.1	0.6	5.7		0.2	5.0	98.0	120.1	63.2	22.1	0.5	4.8	128.0	0.1	
9/05/16	15.0	3.7	0.0	0.0	15.0	7.8	0.0	38.4	530.0	0.0	0.0	0.0	1868.0	0.0	3.1	0.0	7.4	0.0	37.6	1.6	0.0	0.1	0.0	0.1	0.8	5.4		0.1	5.0	102.0	255.7	72.1	22.7	0.8	9.5	120.0	0.1	
9/08/16	10.6		0.0		11.0	1.2		48.2	660.0				2325.3		3.3	0.1			49.3			0.1	0.0	0.1	0.5	5.0		0.0	5.0	43.0	314.7	91.0	19.3	0.4	5.5	168.0		
7/11/16	25.4		0.0		25.0	1.8		14.5	194.0				826.7		3.2	0.0			13.2			0.0	0.0	0.0	0.5	5.5		0.1	5.0	335.0	131.5	68.9	20.3	0.5	3.6	108.2		
7/02/17	30.5		0.0		30.0	1.0		6.3	80.0				493.1		3.5	0.0			5.9			0.0	0.0	0.0	0.4	5.6		0.1	5.0	193.0	76.8	63.4	22.1	0.3	2.4	142.8		
8/05/17	11.6	0.3	0.1	0.0	12.0	1.2	0.0	60.8	860.0	0.0	0.0	0.0	2886.1	0.0	3.4	0.0	0.8	0.0	62.1	0.3	0.0	0.0	0.0	0.0	0.7	5.0		0.0	5.0	194.4	362.0	100.7	21.7	0.7	7.7	100.5	0.0	
8/08/17	9.1		0.0		9.0	1.5		50.2	675.0				2447.2		3.4	0.0			49.4			0.1	0.0	0.1	1.0	5.0		0.1	5.0	269.7	322.8	79.2	19.4	0.9	7.6	91.3		
7/11/17	18.0		0.0		18.0	4.2		28.2	425.0				1523.7		3.9	0.0			26.2			0.1	0.0	0.1	0.6	5.3		0.1	5.0	290.4	203.2	67.8	20.6	0.5	4.0	78.1		
2017 Min	9.1	0.3	0.0	0.0	9.0	1.0	0.0	6.3	80.0	0.0	0.0	0.0	493.1	0.0	3.4	0.0	0.8	0.0	5.9	0.3	0.0	0.0	0.0	0.4	5.0		0.0	5.0	193.0	76.8	63.4	19.4	0.3	2.4	78.1	0.0		
2017 Max	30.5	0.3	0.1	0.0	30.0	4.2	0.0	60.8	860.0	0.0	0.0	0.0	2886.1	0.0	3.9	0.0	0.8	0.0	62.1	0.3	0.0	0.1	0.0	0.1	1.0	5.6		0.1	5.0	290.4	362.0	100.7	22.1	0.9	7.7	142.8	0.0	
2017 Mean	17.3	0.3	0.0	0.0	17.3	2.0	0.0	36.4	510.0	0.0	0.0	0.0	1837.5	0.0	3.6	0.0	0.8	0.0	35.9	0.3	0.0	0.1	0.0	0.1	0.6	5.2		0.1	5.0	236.9	241.2	77.8	21.0	0.6	5.4	103.2	0.0	

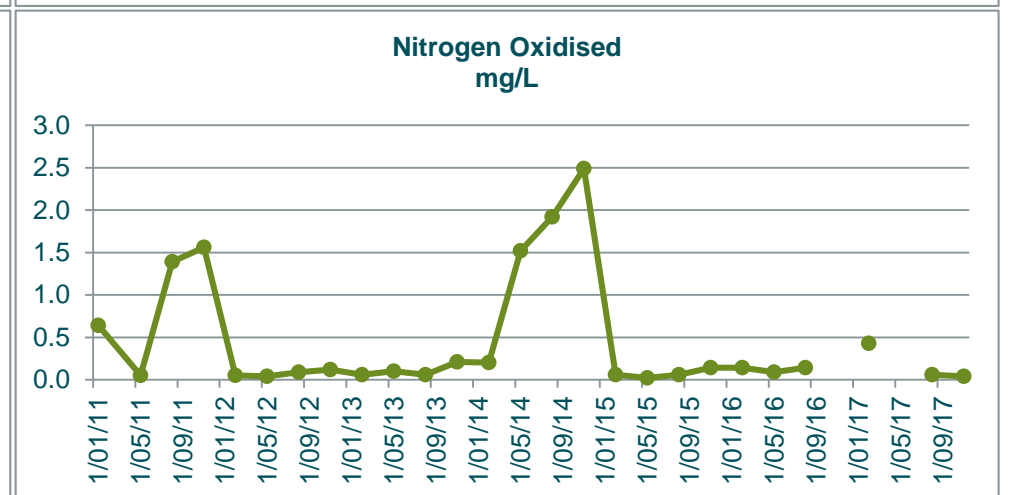
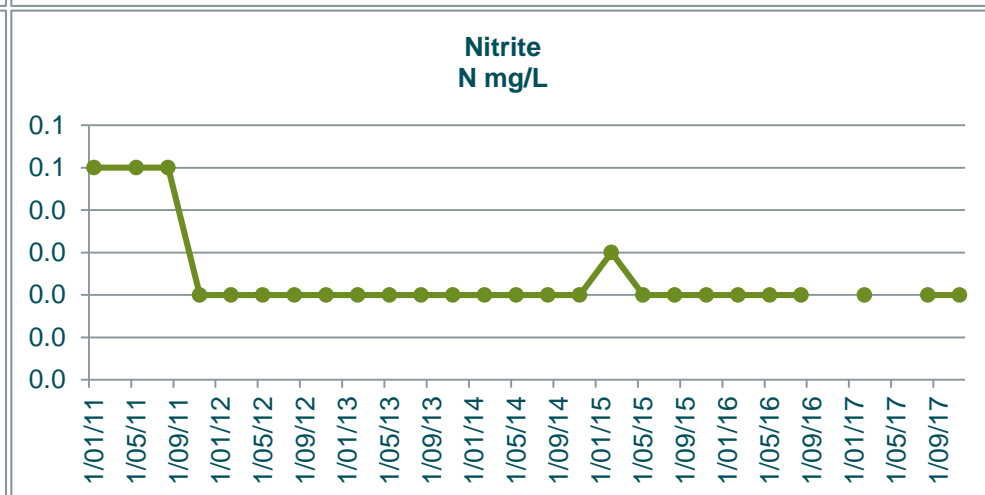
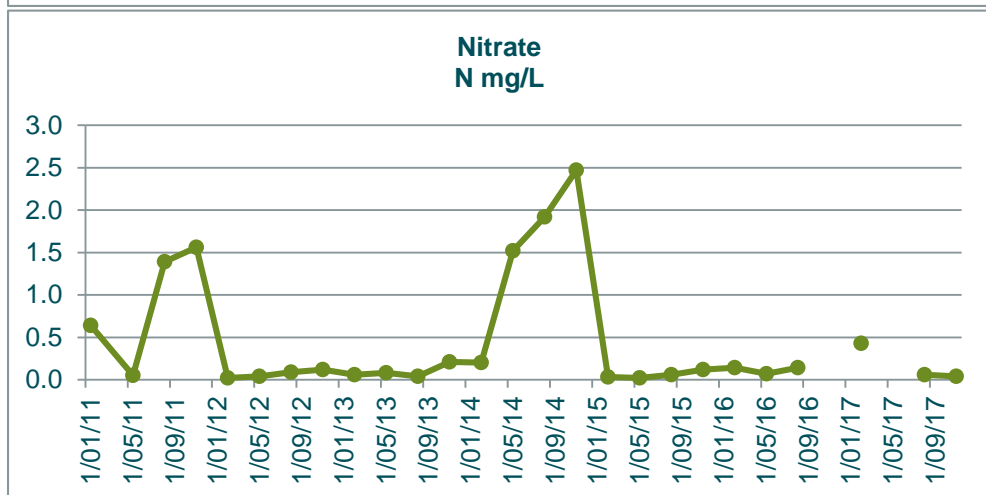
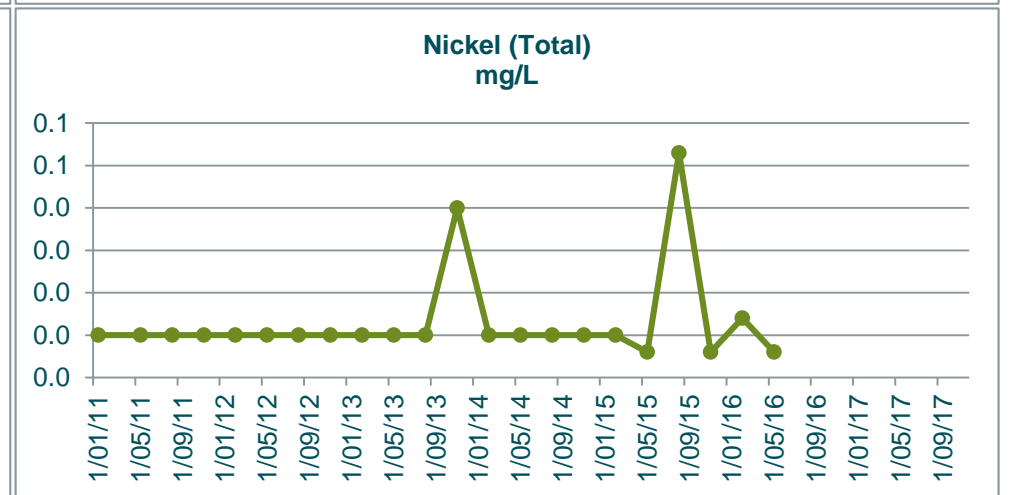
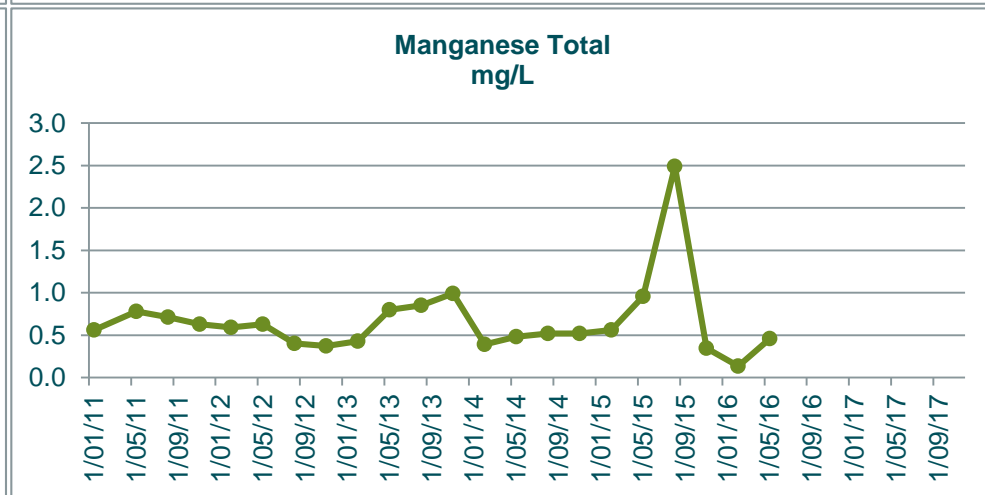
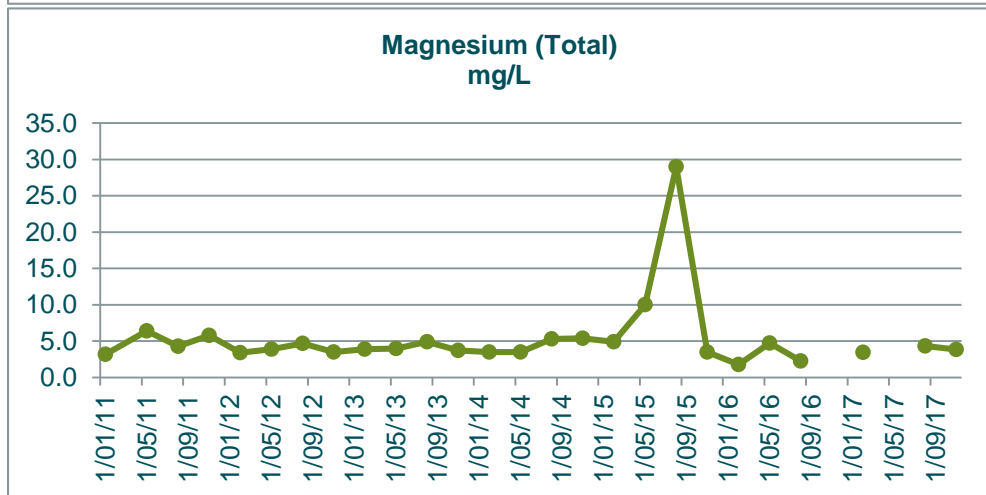
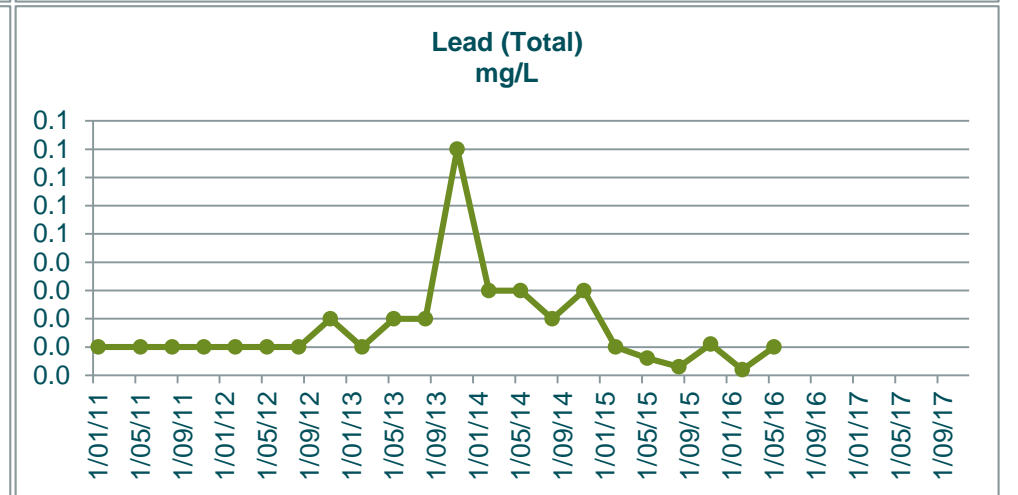
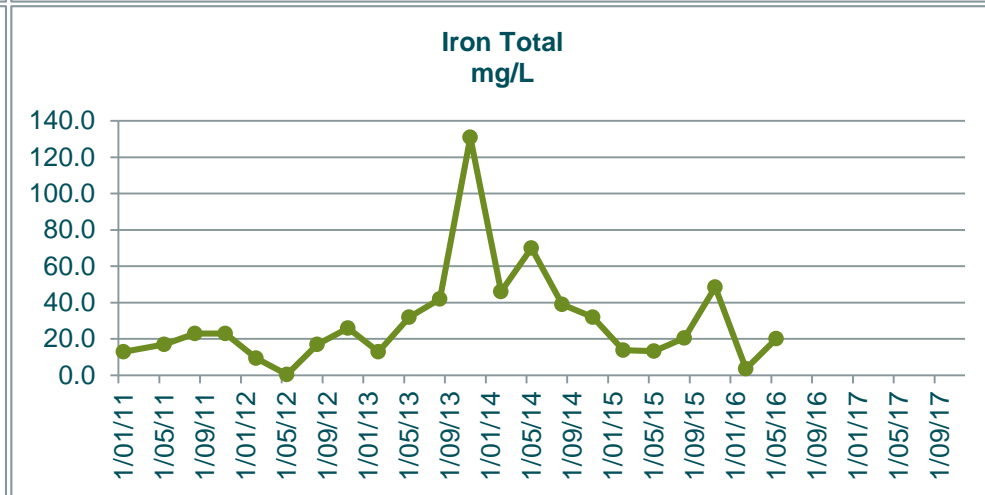
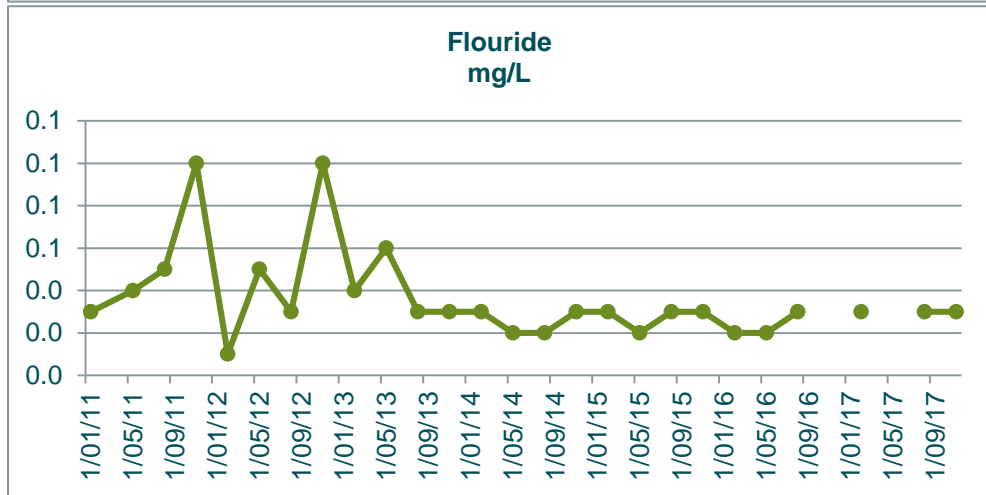
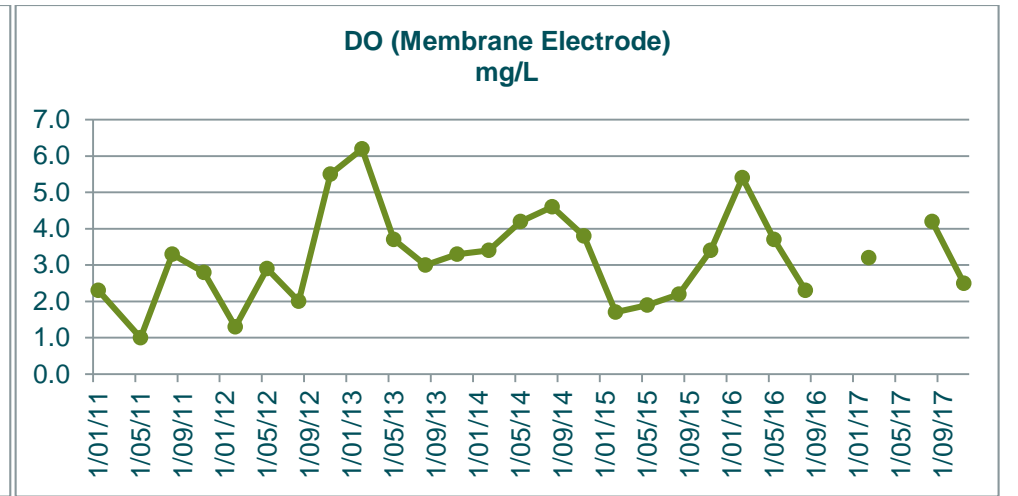
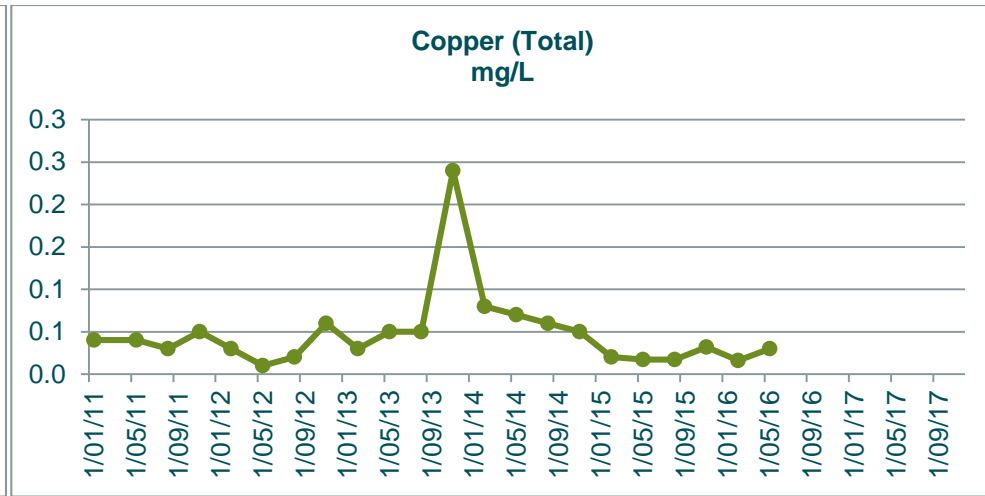
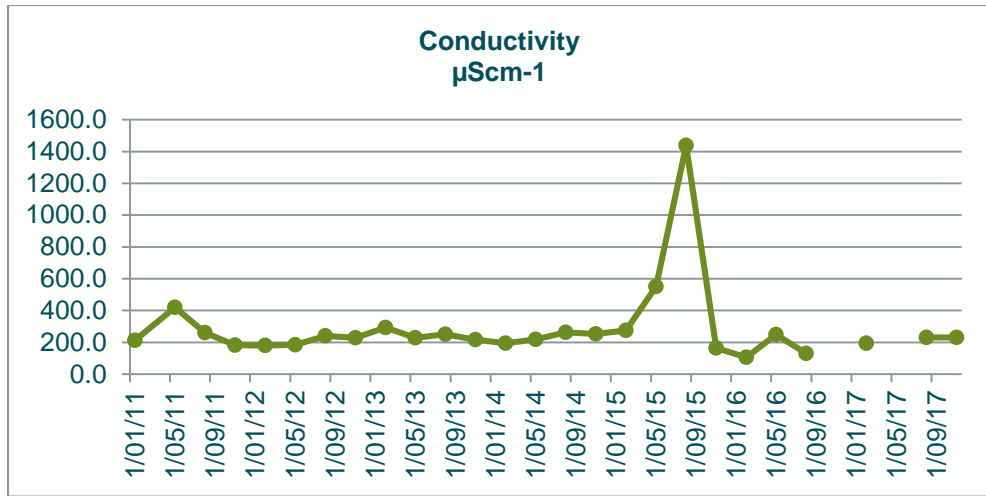


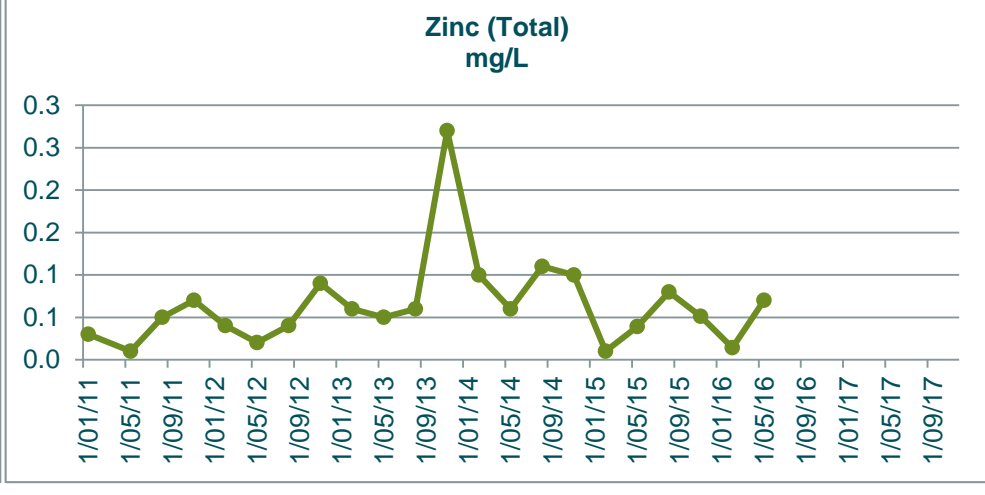
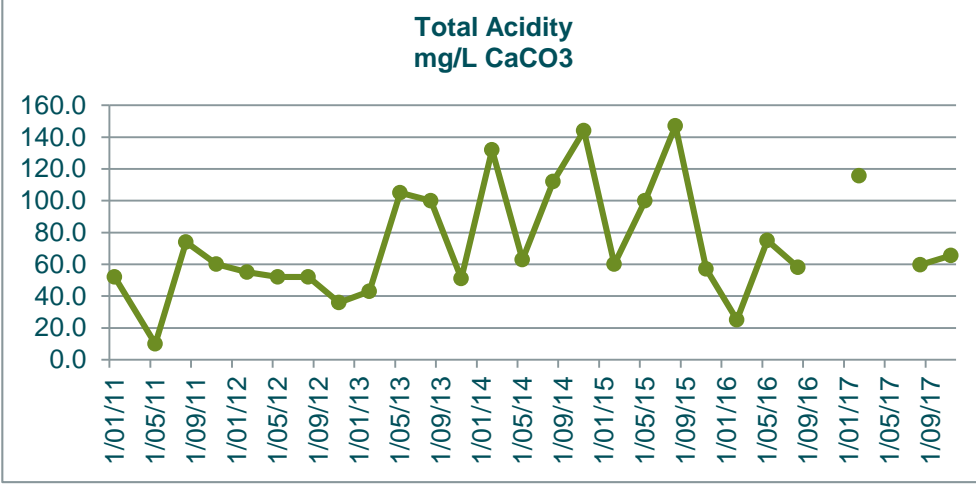
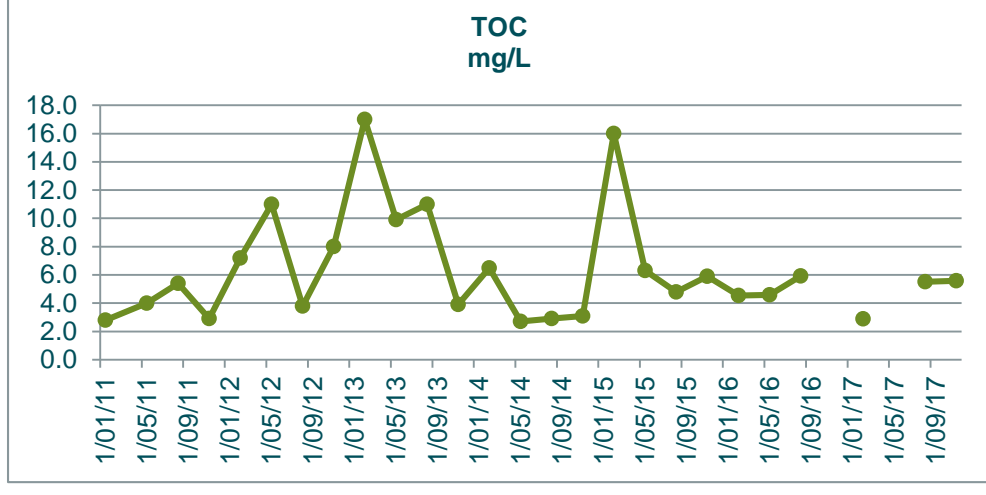
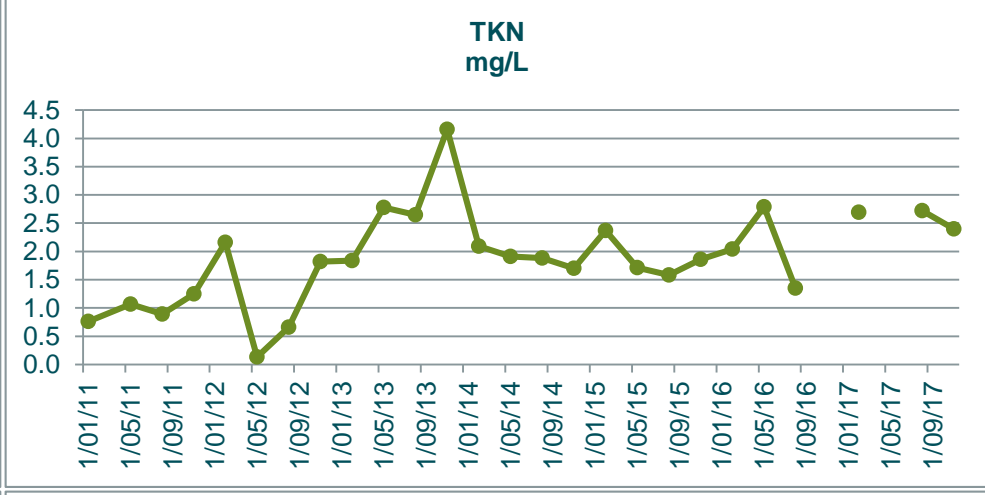
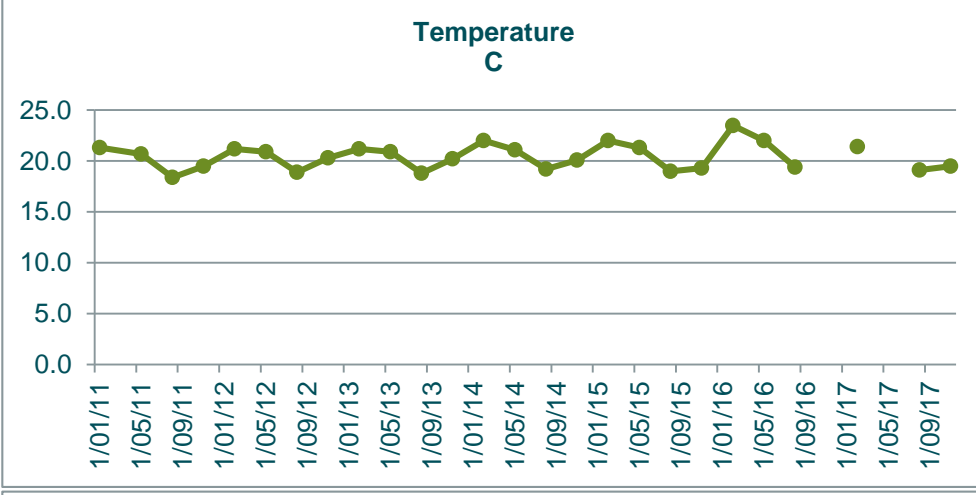
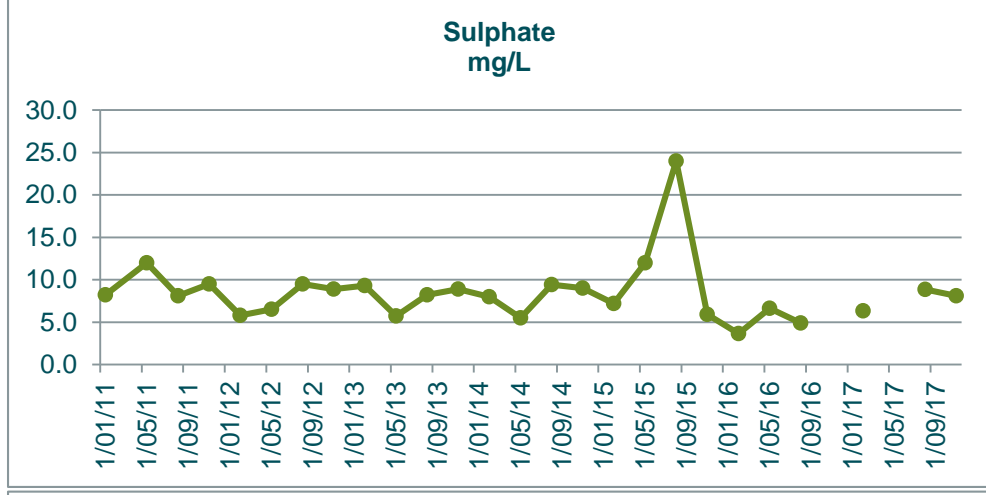
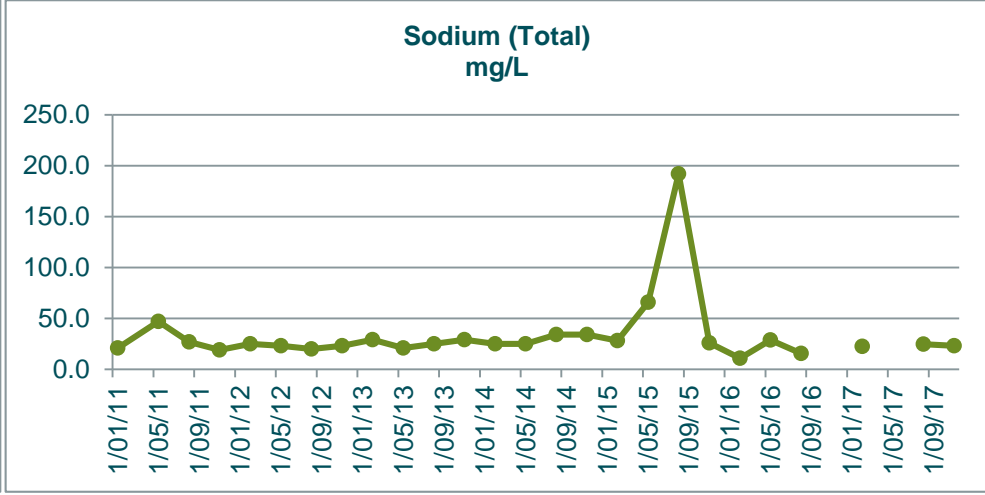
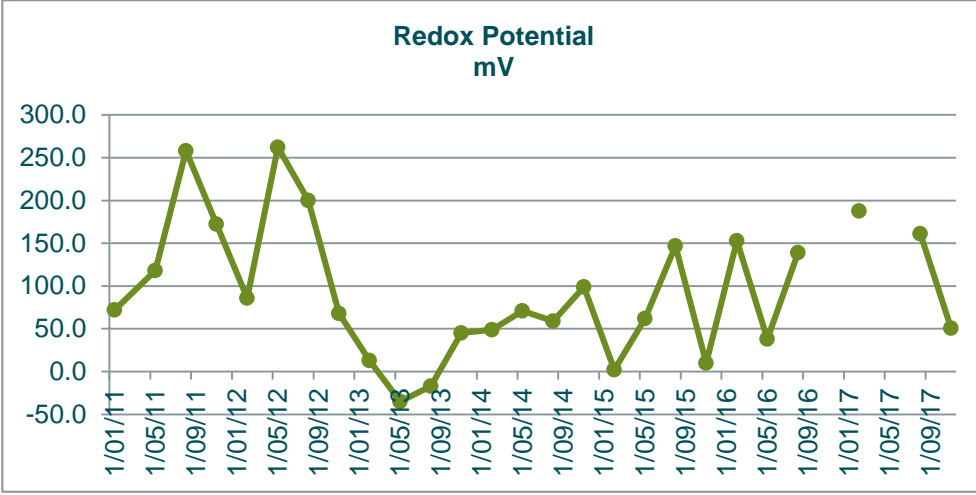
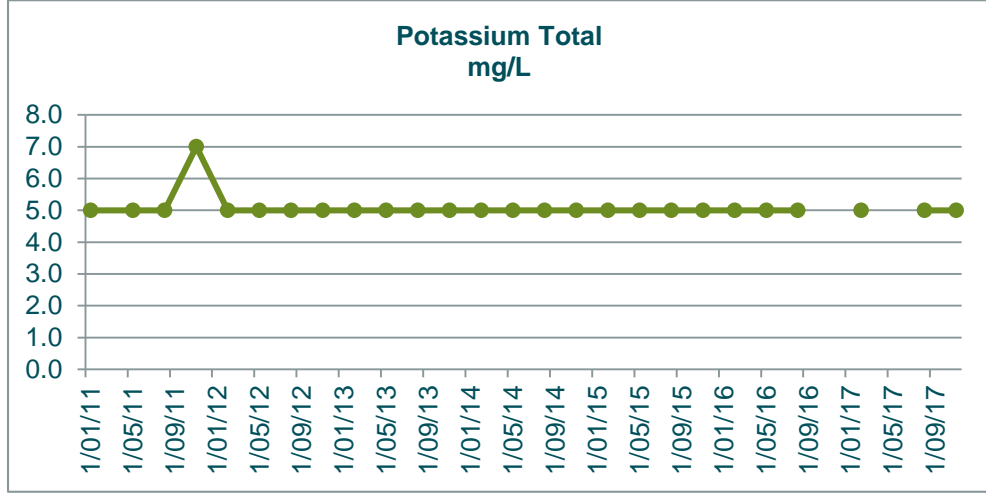
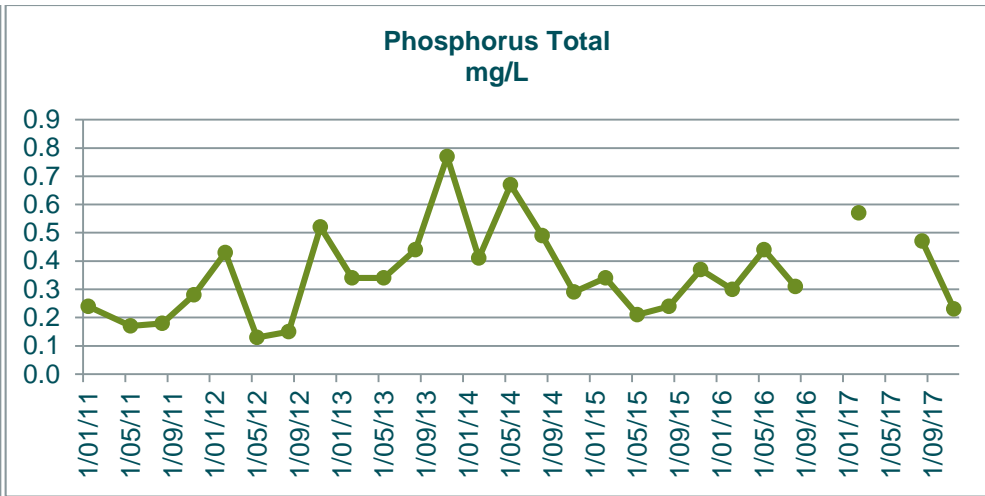
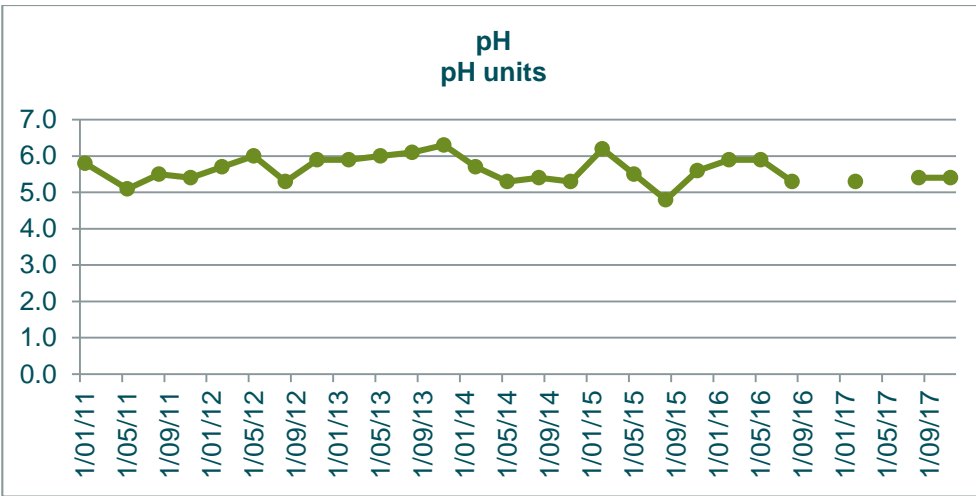
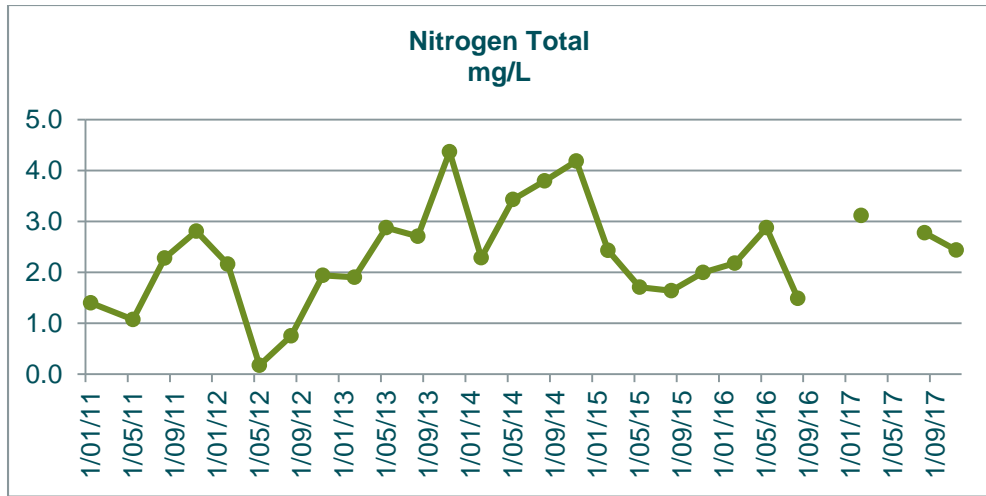




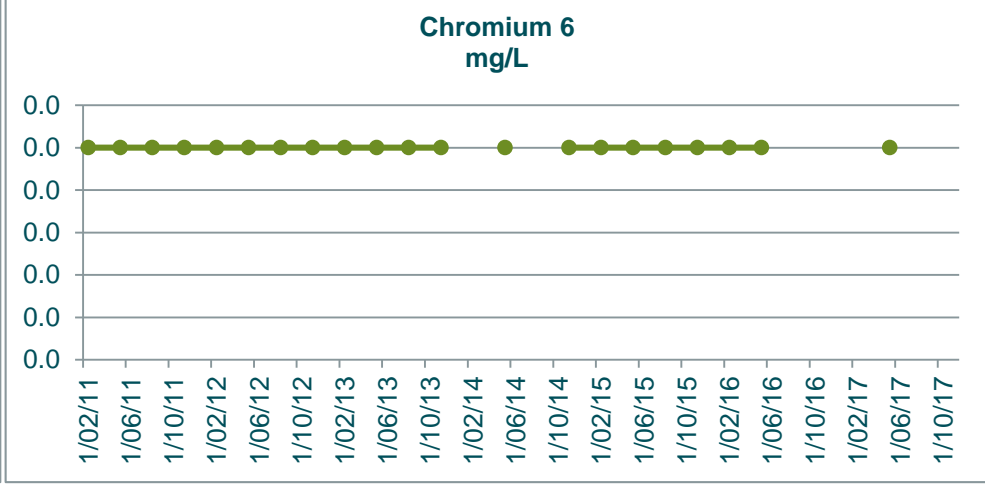
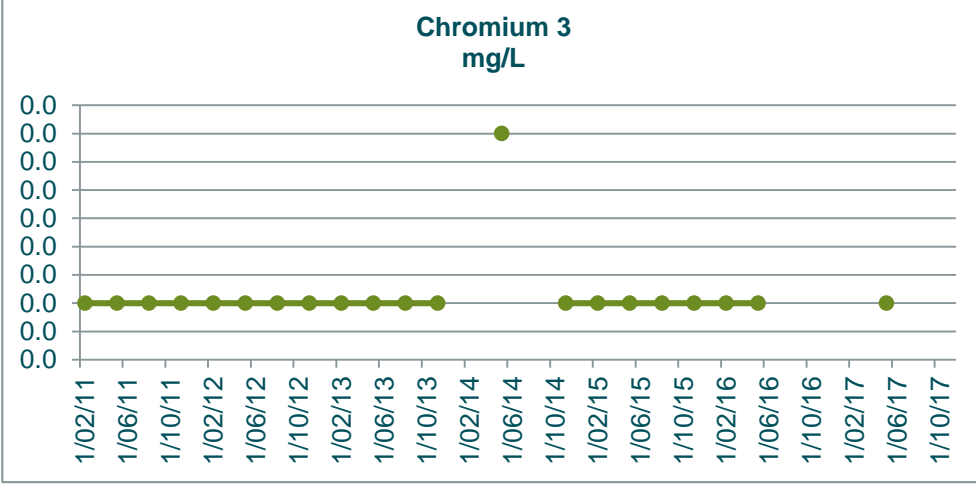
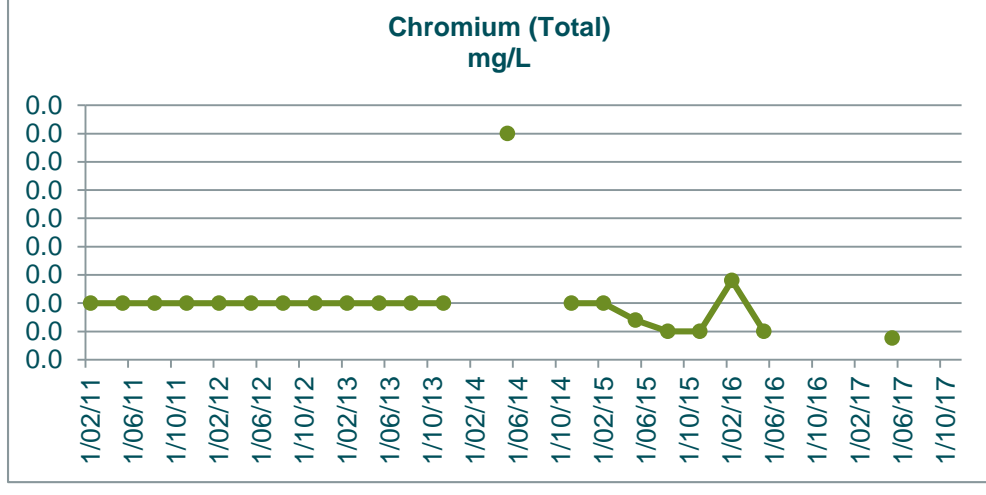
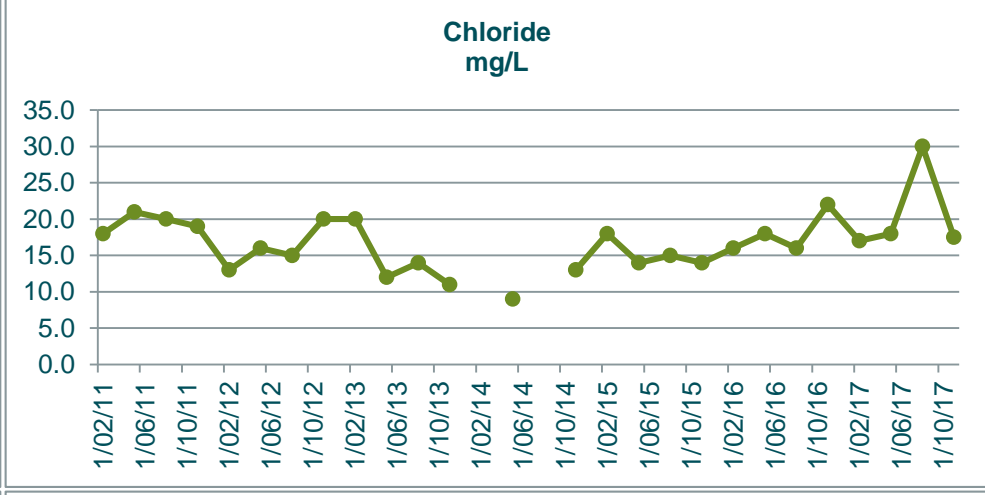
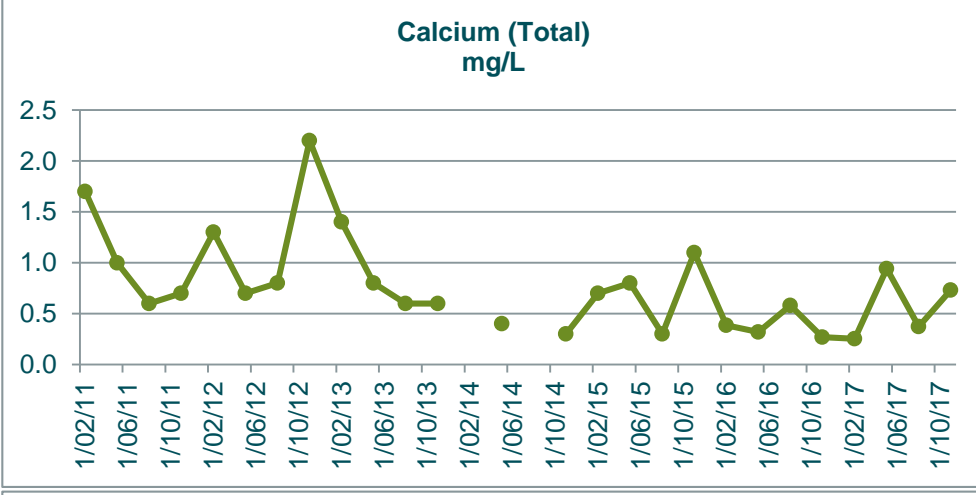
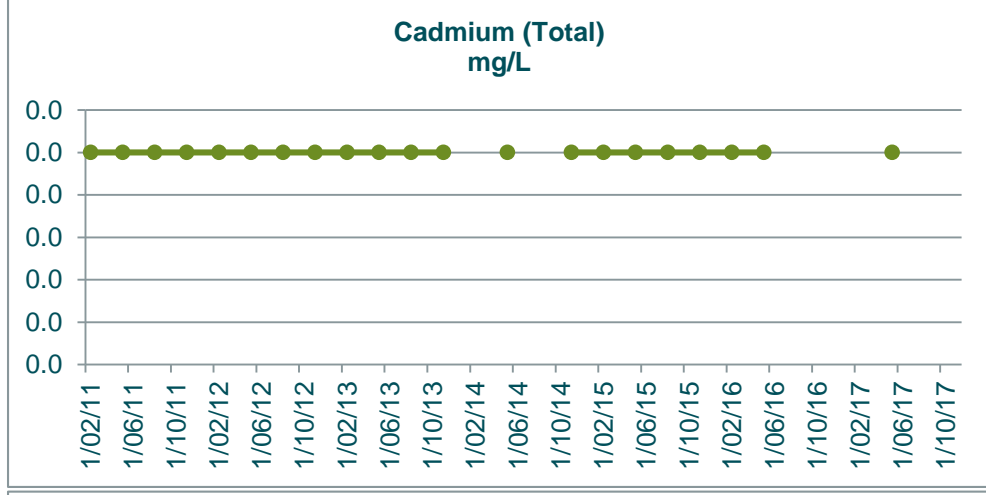
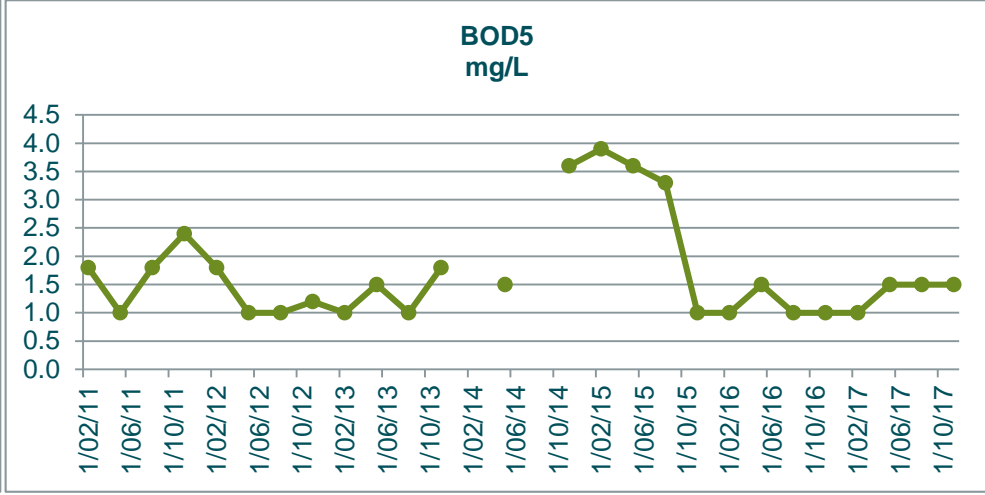
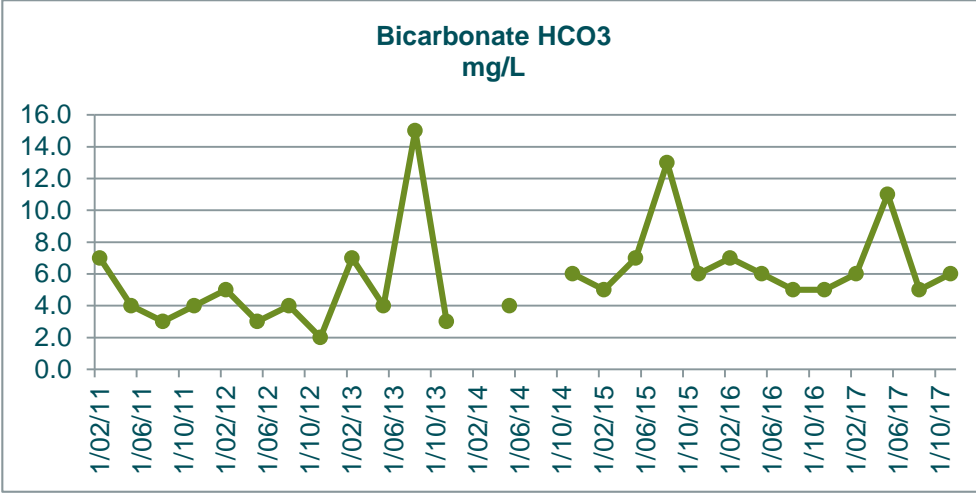
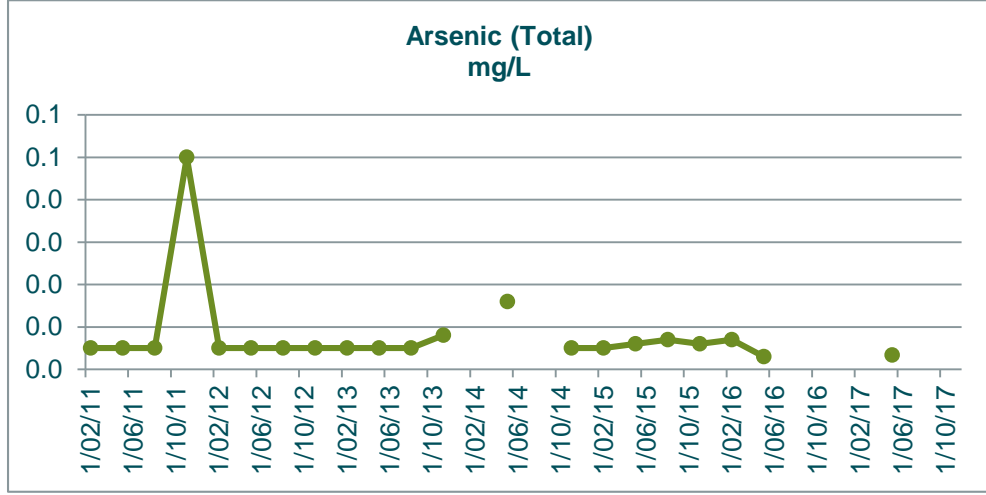
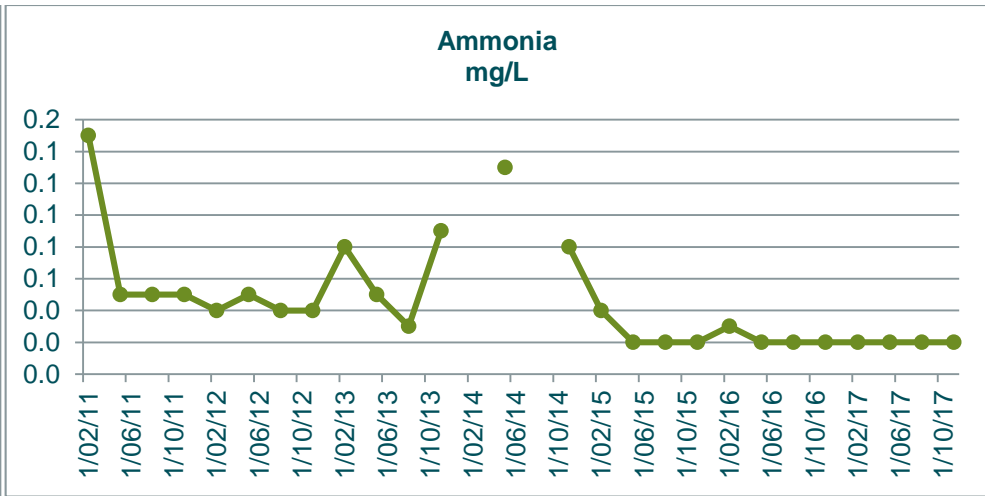
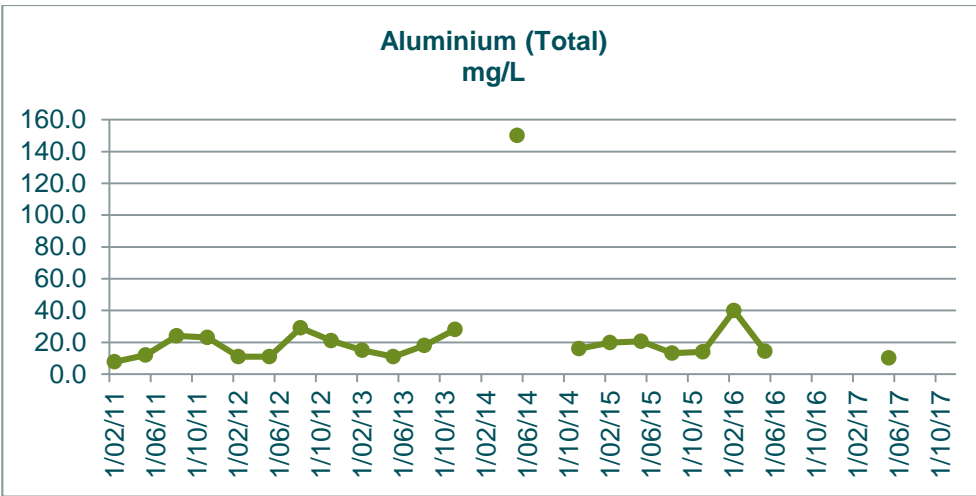
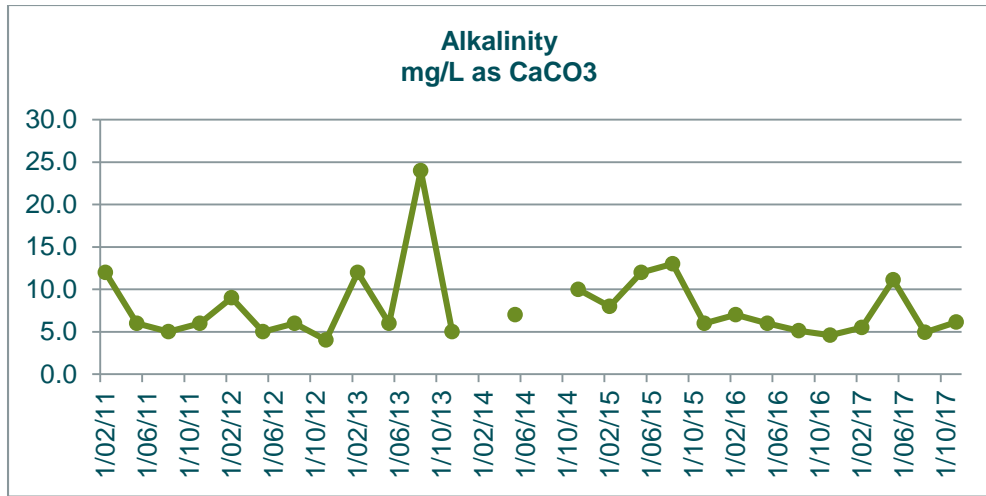
GW10	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L		
31/01/11	17.0	6.1	0.1	0.0	10.0	1.0	0.0	4.7	33.0	0.0	0.0	0.0	212.0	0.0	2.3	0.0	13.0	0.0	3.2	0.6	0.0	0.6	0.1	0.6	1.4	5.8		0.2	5.0	72.0	21.0	8.2	21.3	0.8	2.8	52.0	0.0		
10/05/11	17.0	6.5	0.1	0.0	10.0	1.2	0.0	8.6	97.0	0.0	0.0	0.0	419.0	0.0	1.0	0.0	17.0	0.0	6.4	0.8	0.0	0.1	0.1	0.1	1.1	5.1		0.2	5.0	118.0	47.0	12.0	20.7	1.1	4.0	10.0	0.0		
9/08/11	11.0	9.2	0.1	0.0	7.0	5.7	0.0	4.2	50.0	0.0	0.0	0.0	261.0	0.0	3.3	0.1	23.0	0.0	4.3	0.7	0.0	1.4	0.1	1.4	2.3	5.5		0.2	5.0	258.0	27.0	8.1	18.4	0.9	5.4	74.0	0.1		
8/11/11	9.0	13.0	0.1	0.0	5.0	1.0	0.0	4.9	54.0	0.0	0.0	0.0	182.0	0.1	2.8	0.1	23.0	0.0	5.8	0.6	0.0	1.6	0.0	1.6	2.8	5.4		0.3	7.0	172.3	19.0	9.5	19.5	1.3	2.9	60.0	0.1		
6/02/12	17.0	6.9	0.2	0.0	10.0	9.0	0.0	4.3	38.0	0.0	0.0	0.0	181.0	0.0	1.3	0.0	9.5	0.0	3.4	0.6	0.0	0.0	0.0	0.1	2.2	5.7		0.4	5.0	86.0	25.0	5.8	21.2	2.2	7.2	55.0	0.0		
8/05/12	16.0	0.1	0.1	0.0	10.0	3.0	0.0	4.6	38.0	0.0	0.0	0.0	185.0	0.0	2.9	0.1	0.4	0.0	3.9	0.6	0.0	0.0	0.0	0.0	0.2	6.0		0.1	5.0	262.0	23.0	6.5	20.9	0.1	11.0	52.0	0.0		
6/08/12	15.0	4.5	0.0	0.0	9.0	3.0	0.0	4.4	50.0	0.0	0.0	0.0	241.0	0.0	2.0	0.0	17.0	0.0	4.7	0.4	0.0	0.1	0.0	0.1	0.8	5.3		0.2	5.0	200.0	20.0	9.5	18.9	0.7	3.8	52.0	0.0		
13/11/12	10.0	13.0	0.1	0.0	6.0	4.8	0.0	5.5	47.0	0.0	0.0	0.0	228.0	0.1	5.5	0.1	26.0	0.0	3.5	0.4	0.0	0.1	0.0	0.1	1.9	5.9		0.5	5.0	68.0	23.0	8.9	20.3	1.8	8.0	36.0	0.1		
13/02/13	14.0	6.4	0.1	0.0	8.0	6.9	0.0	8.6	70.0	0.0	0.0	0.0	292.0	0.0	6.2	0.0	13.0	0.0	3.9	0.4	0.0	0.1	0.0	0.1	1.9	5.9		0.3	5.0	13.0	29.0	9.3	21.2	1.8	17.0	43.0	0.1		
14/05/13	25.0	22.0	0.4	0.0	15.0	9.6	0.0	6.1	40.0	0.0	0.0	0.0	229.0	0.1	3.7	0.1	32.0	0.0	4.0	0.8	0.0	0.1	0.0	0.1	2.9	6.0		0.3	5.0	-35.0	21.0	5.7	20.9	2.8	9.9	105.0	0.1		
6/08/13	26.0	25.0	0.4	0.0	16.0	5.7	0.0	5.8	39.0	0.0	0.0	0.0	251.0	0.1	3.0	0.0	42.0	0.0	4.9	0.9	0.0	0.0	0.0	0.1	2.7	6.1		0.4	5.0	-17.0	25.0	8.2	18.8	2.7	11.0	100.0	0.1		
12/11/13	10.0	94.0	0.3	0.0	6.0	7.2	0.0	4.7	47.0	0.1	0.1	0.0	216.0	0.2	3.3	0.0	131.0	0.1	3.7	1.0	0.0	0.2	0.0	0.2	4.4	6.3		0.8	5.0	45.0	29.0	8.9	20.2	4.2	3.9	51.0	0.3		
11/02/14	10.0	30.0	0.2	0.0	6.0	6.3	0.0	4.1	42.0	0.0	0.0	0.0	195.0	0.1	3.4	0.0	46.0	0.0	3.5	0.4	0.0	0.2	0.0	0.2	2.3	5.7		0.4	5.0	49.0	25.0	8.0	22.0	2.1	6.5	132.0	0.1		
13/05/14	8.0	38.0	0.1	0.0	5.0	3.3	0.0	3.2	48.0	0.0	0.0	0.0	219.0	0.1	4.2	0.0	70.0	0.0	3.5	0.5	0.0	1.5	0.0	1.5	3.4	5.3		0.7	5.0	71.0	25.0	5.5	21.1	1.9	2.7	63.0	0.1		
12/08/14	7.0	27.0	0.1	0.0	4.0	3.9	0.0	3.8	60.0	0.0	0.0	0.0	262.0	0.1	4.6	0.0	39.0	0.0	5.3	0.5	0.0	1.9	0.0	1.9	3.8	5.4		0.5	5.0	59.0	34.0	9.4	19.2	1.9	2.9	112.0	0.1		
10/11/14	8.0	20.0	0.1	0.0	5.0	4.2	0.0	3.8	60.0	0.0	0.0	0.0	253.0	0.1	3.8	0.0	32.0	0.0	5.4	0.5	0.0	2.5	0.0	2.5	4.2	5.3		0.3	5.0	99.0	34.0	9.0	20.1	1.7	3.1	144.0	0.1		
9/02/15	22.0	8.3	0.2	0.0	13.0	3.9	0.0	7.0	60.0	0.0	0.0	0.0	275.0	0.0	1.7	0.0	13.8	0.0	4.9	0.6	0.0	0.0	0.0	0.1	2.4	6.2		0.3	5.0	2.0	28.0	7.2	22.0	2.4	16.0	60.0	0.0		
11/05/15	12.0	6.8	0.7	0.0	7.0	8.1	0.0	10.0	148.0	0.0	0.0	0.0	551.0	0.0	1.9	0.0	13.3	0.0	10.0	1.0	0.0	0.0	0.0	0.0	1.7	5.5		0.2	5.0	62.0	66.0	12.0	21.3	1.7	6.3	100.0	0.0		
11/08/15	1.0	1.6	0.2	0.0	1.0	5.1	0.0	23.0	410.0	0.0	0.0	0.0	1438.0	0.0	2.2	0.0	20.6	0.0	29.0	2.5	0.1	0.1	0.0	0.1	1.6	4.8		0.2	5.0	147.0	192.0	24.0	19.0	1.6	4.8	147.0	0.1		
10/11/15	8.0	14.3	0.1	0.0	8.0	3.0	0.0	3.6	51.0	0.0	0.0	0.0	164.0	0.0	3.4	0.0	48.5	0.0	3.5	0.3	0.0	0.1	0.0	0.1	2.0	5.6		0.4	5.0	10.0	26.0	5.9	19.3	1.9	5.9	57.0	0.1		
8/02/16	12.0	2.3	1.2	0.0	12.0	4.2	0.0	2.2	21.0	0.0	0.0	0.0	106.0	0.0	5.4	0.0	3.6	0.0	1.8	0.1	0.0	0.1	0.0	0.1	2.2	5.9		0.3	5.0	153.0	10.8	3.7	23.5	2.0	4.5	25.0	0.0		
9/05/16	22.0	10.0	0.8	0.0	22.0	13.2	0.0	3.6	52.0	0.0	0.0	0.0	248.0	0.0	3.7	0.0	20.1	0.0	4.7	0.5	0.0	0.1	0.0	0.1	2.9	5.9		0.4	5.0	38.0	28.9	6.6	22.0	2.8	4.6	75.0	0.1		
9/08/16	6.4		0.0		6.0	1.0		3.1	30.0				129.4		2.3	0.0			2.3			0.1	0.0	0.1	1.5	5.3		0.3	5.0	139.0	15.4	4.9	19.4	1.4	5.9	58.0			
7/11/16																																							
7/02/17	8.0		0.2		8.0	2.7		2.7	44.0				194.2		3.2	0.0			3.5			0.4	0.0	0.4	3.1	5.3		0.6	5.0	187.7	22.5	6.3	21.4	2.7	2.9	115.7			
8/05/17																																							
8/08/17	18.6		0.2		19.0	4.2		3.7	45.0				231.4		4.2	0.0			4.3			0.1	0.0	0.1	2.8	5.4		0.5	5.0	161.3	24.7	8.8	19.1	2.7	5.5	59.6			
7/11/17	28.4		1.5		28.0	5.7		3.2	42.0				230.7		2.5	0.0			3.9			0.0	0.0	0.0	2.4	5.4		0.2	5.0	50.8	23.0	8.1	19.5	2.4	5.6	65.5			
2017 Min	8.0		0.2		8.0	2.7		2.7	42.0				194.2		2.5	0.0			3.5			0.0	0.0	0.0	2.4	5.3		0.2	5.0	50.8	22.5	6.3	19.1	2.4	2.9	59.6			
2017 Max	28.4		1.5		28.0	5.7		3.7	45.0				231.4		4.2	0.0			4.3			0.4	0.0	0.4	3.1	5.4		0.6	5.0	187.7	24.7	8.8	21.4	2.7	5.6	115.7			
2017 Mean	18.4		0.6		18.3	4.2		3.2	43.7				218.8		3.3	0.0			3.9			0.2	0.0	0.2	2.8	5.4		0.4	5.0	133.3	23.4	7.7	20.0	2.6	4.7	80.3			

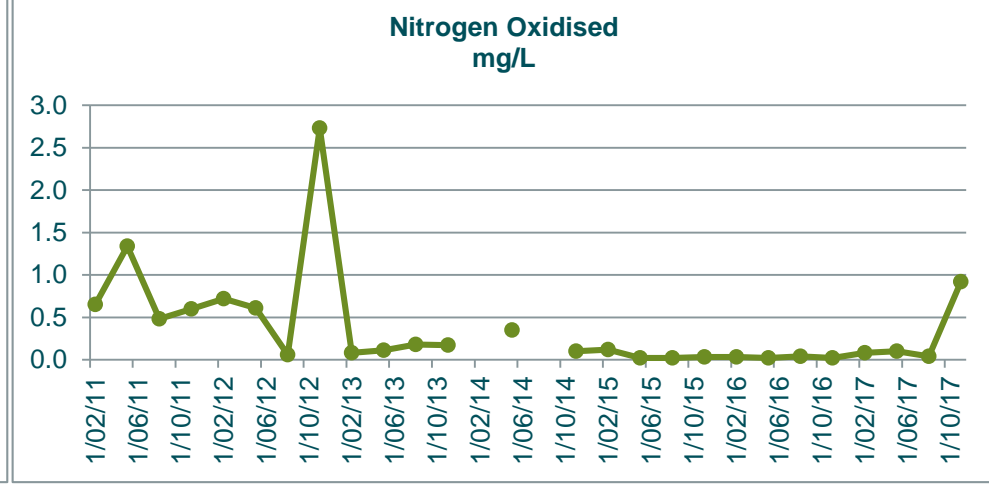
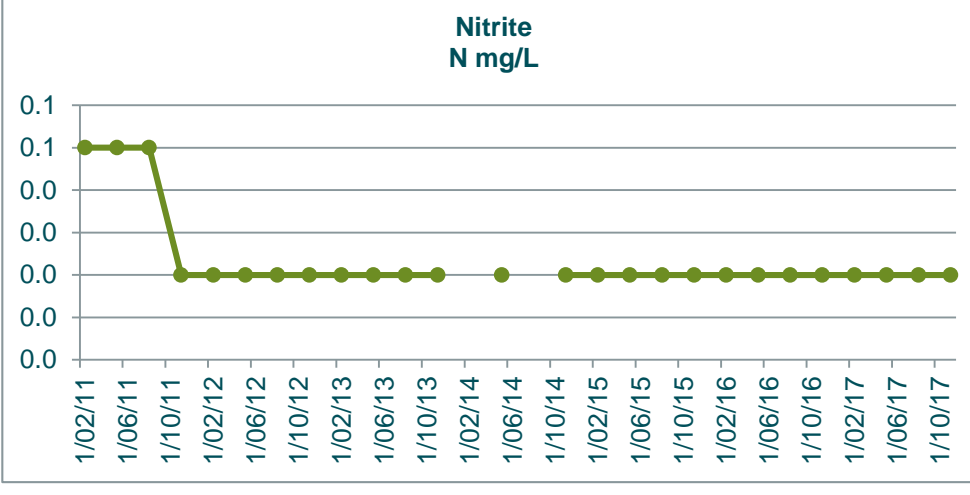
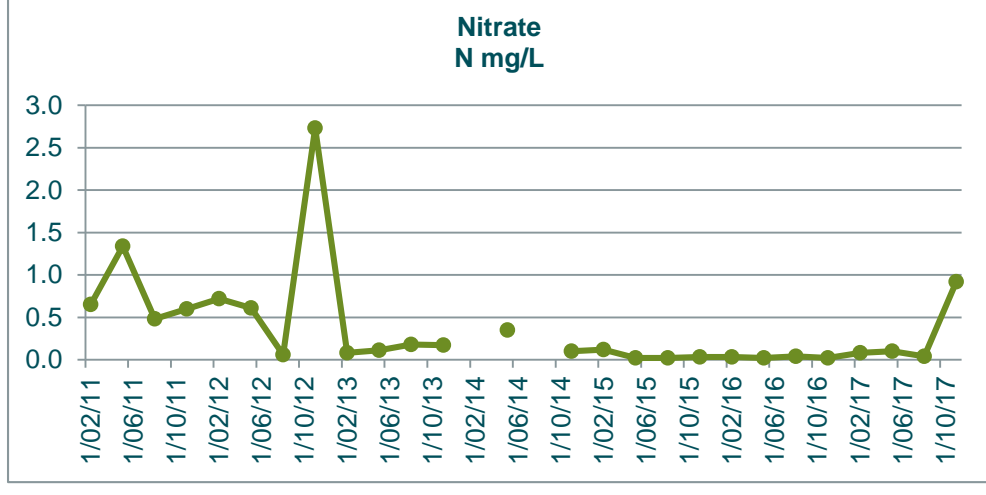
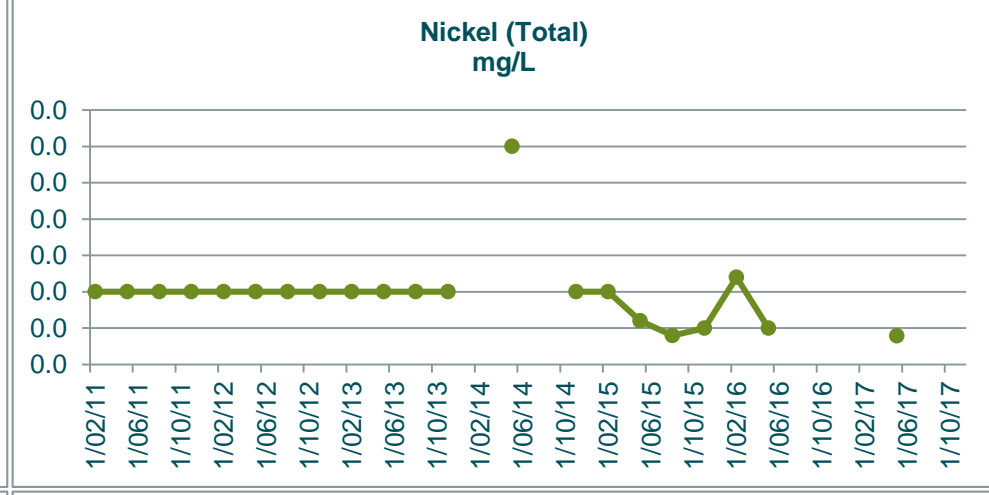
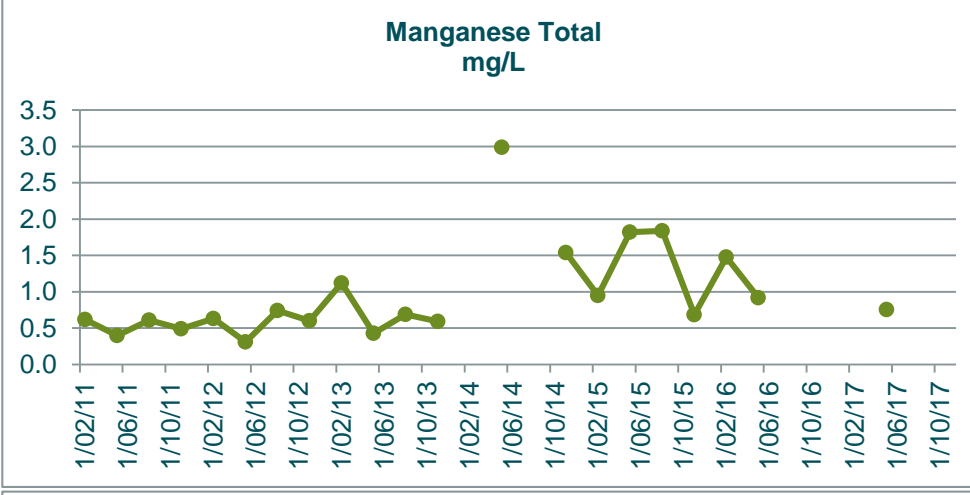
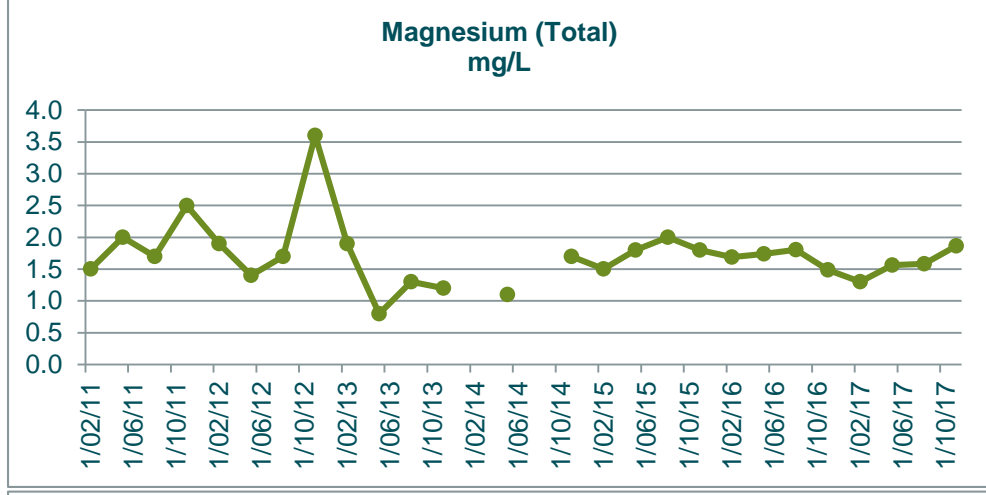
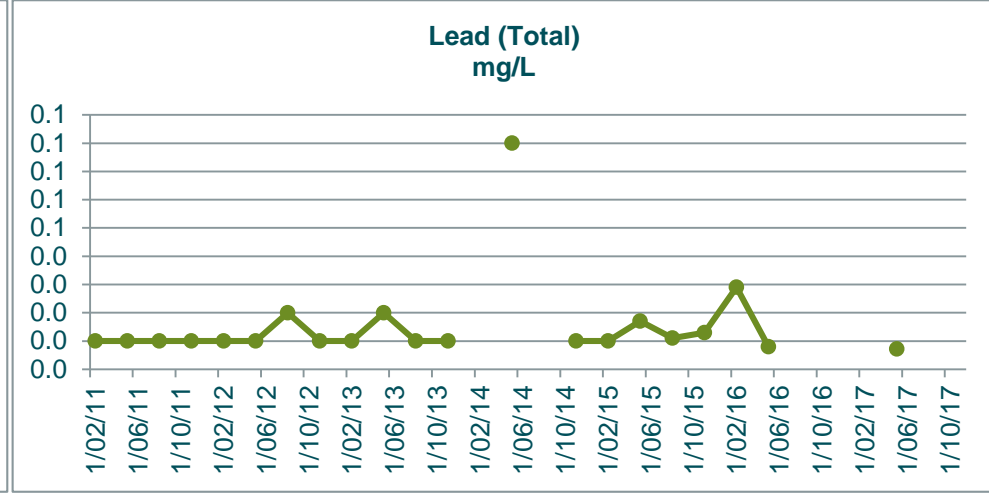
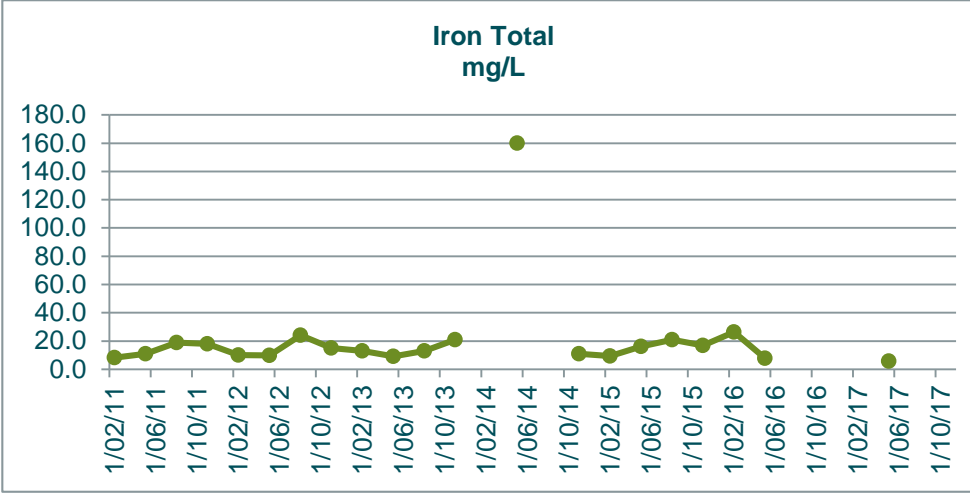
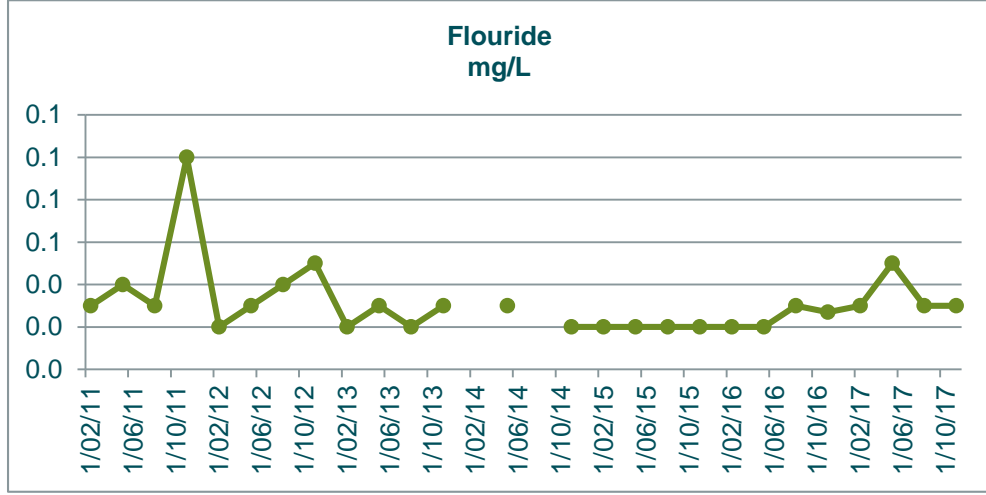
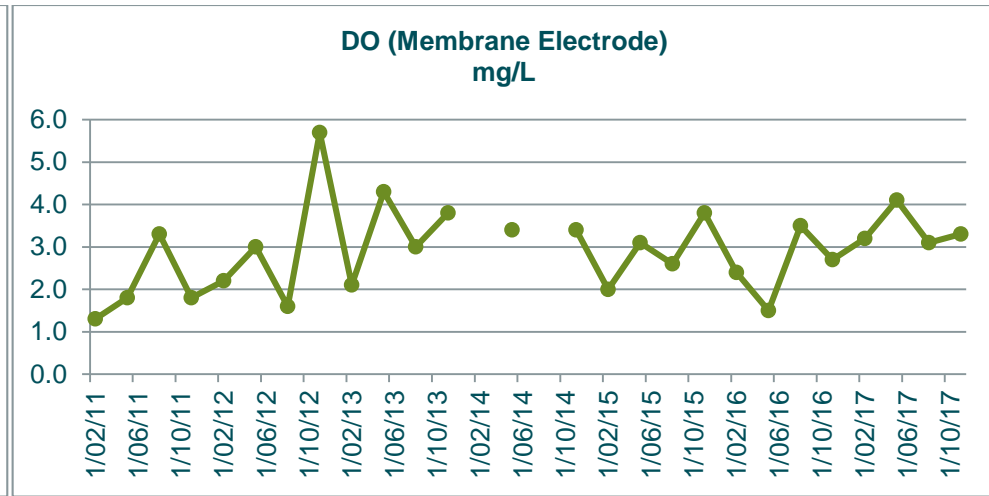
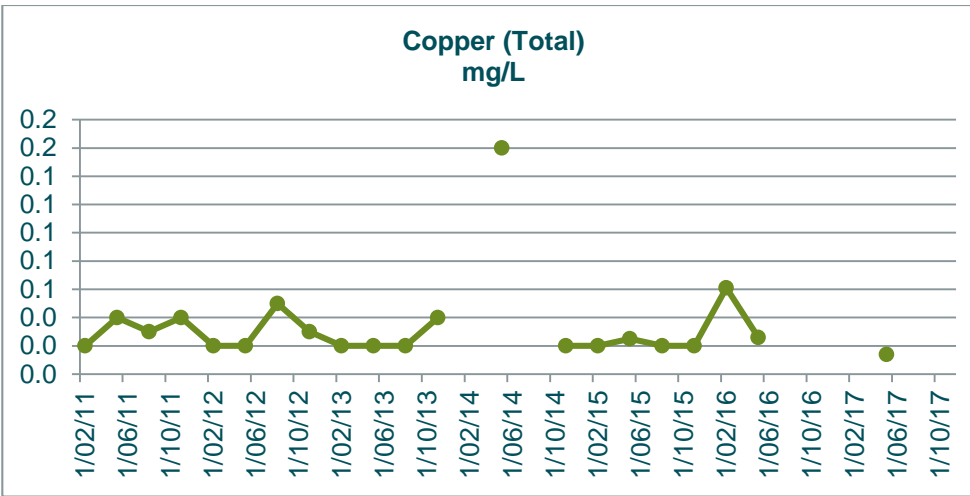
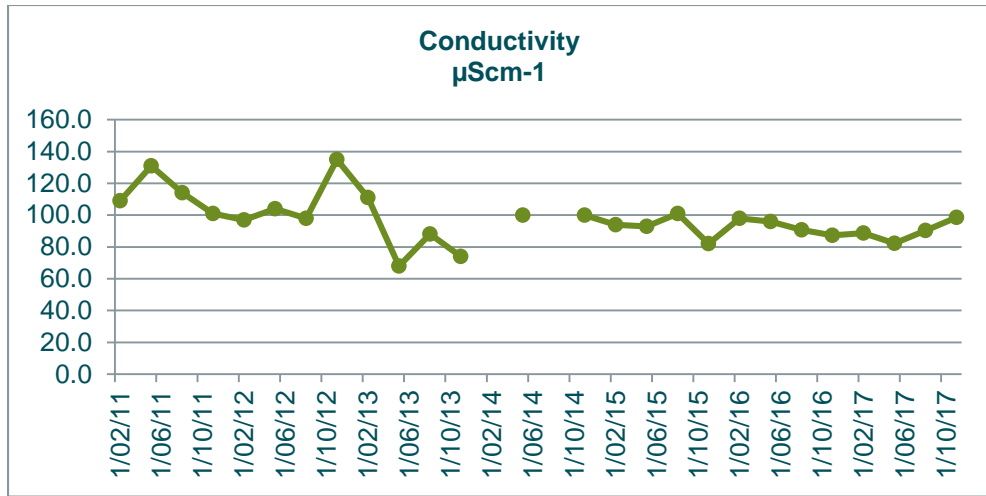


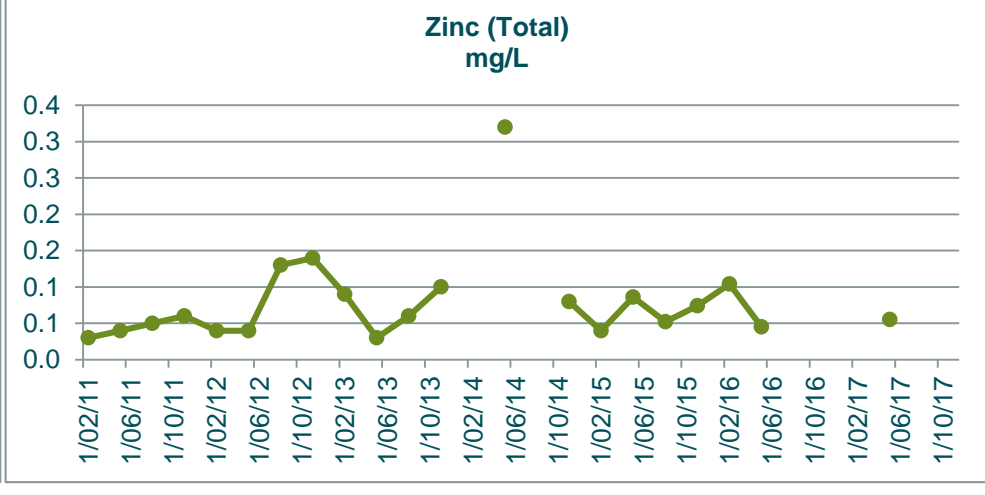
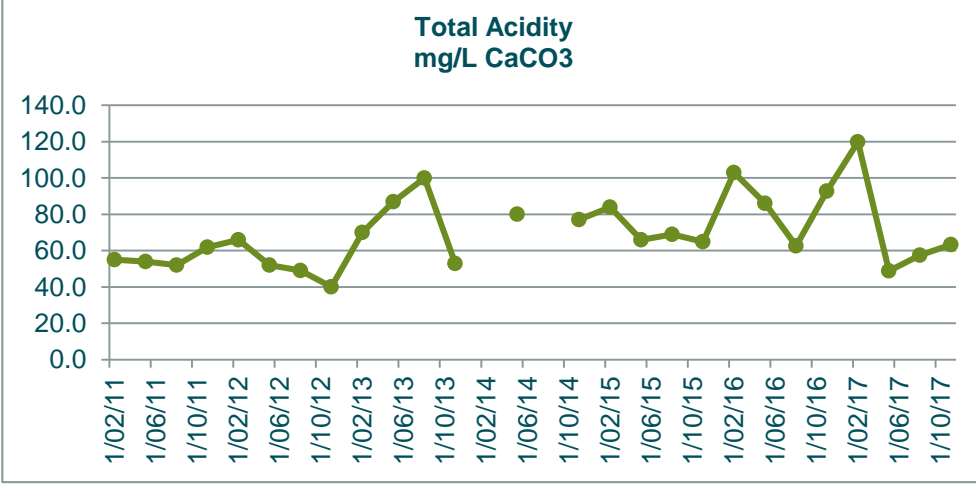
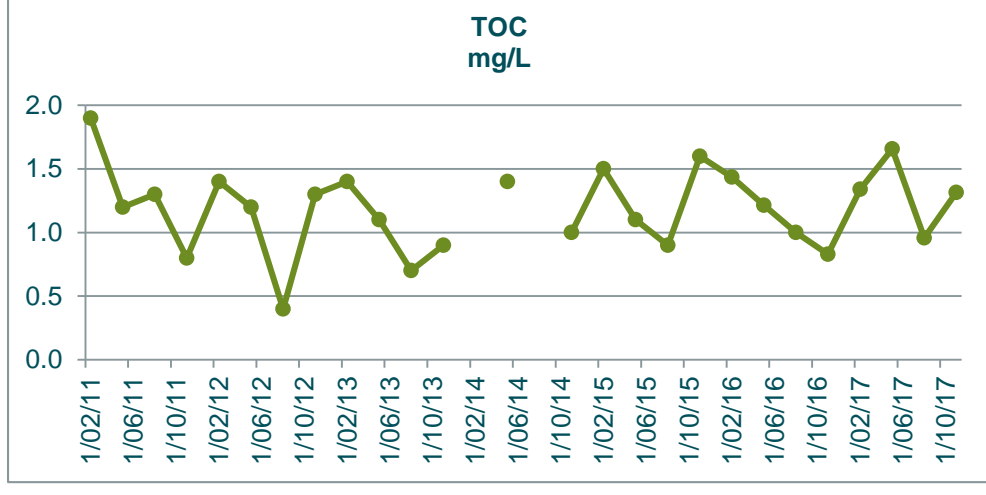
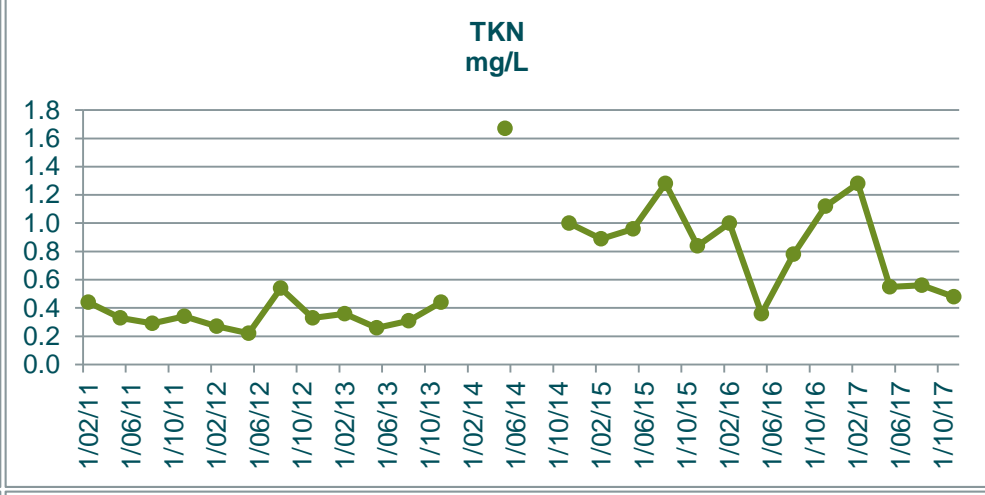
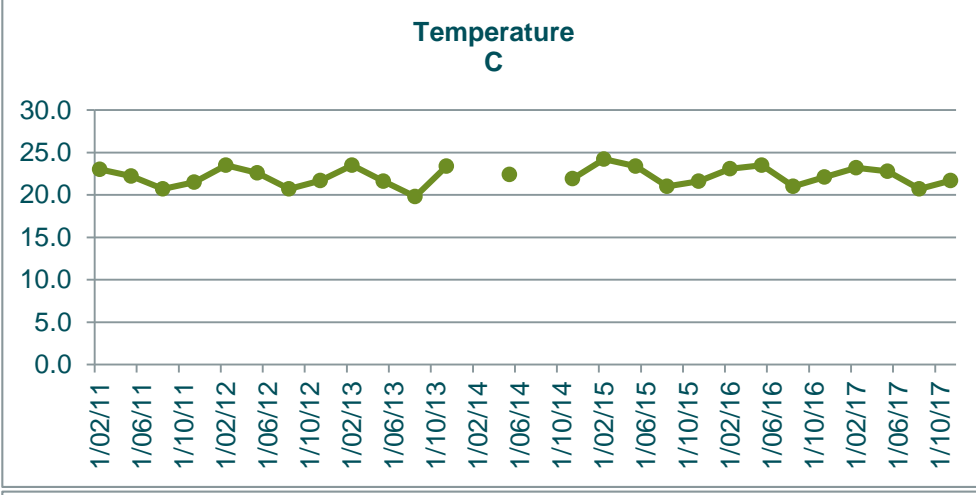
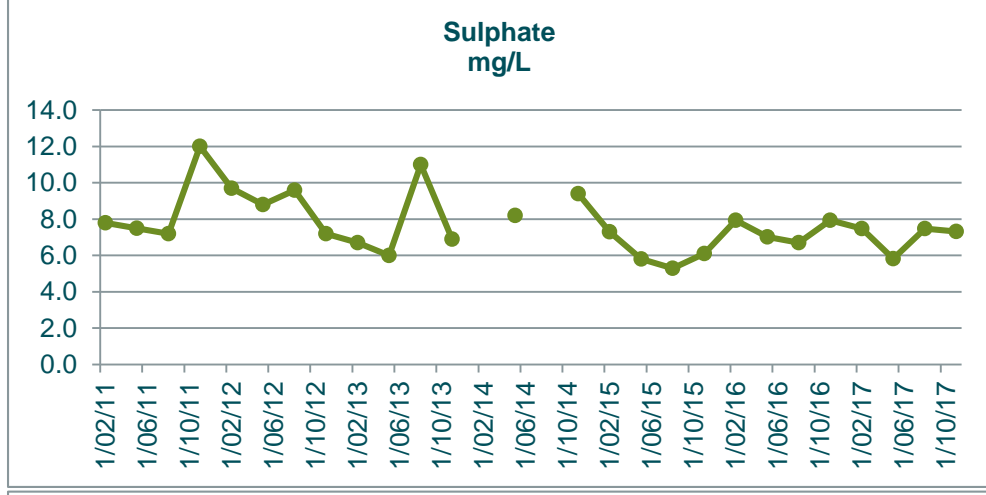
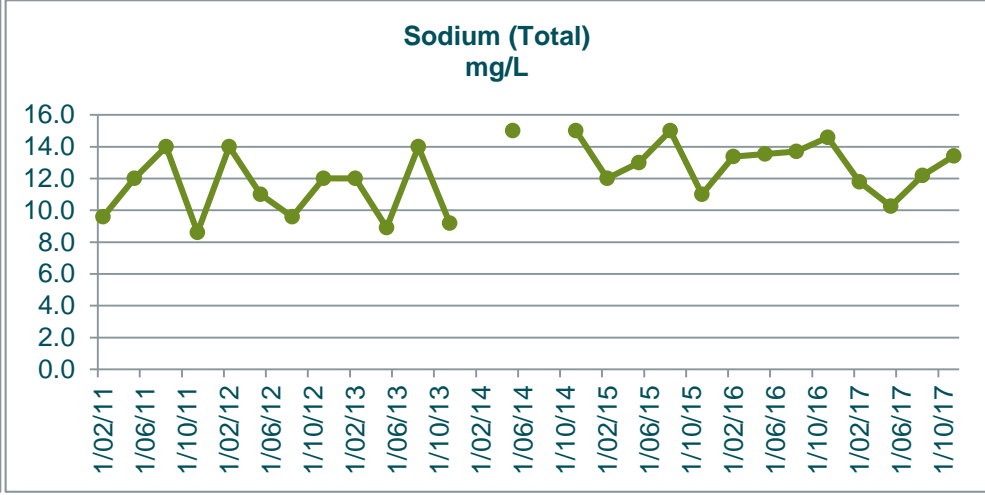
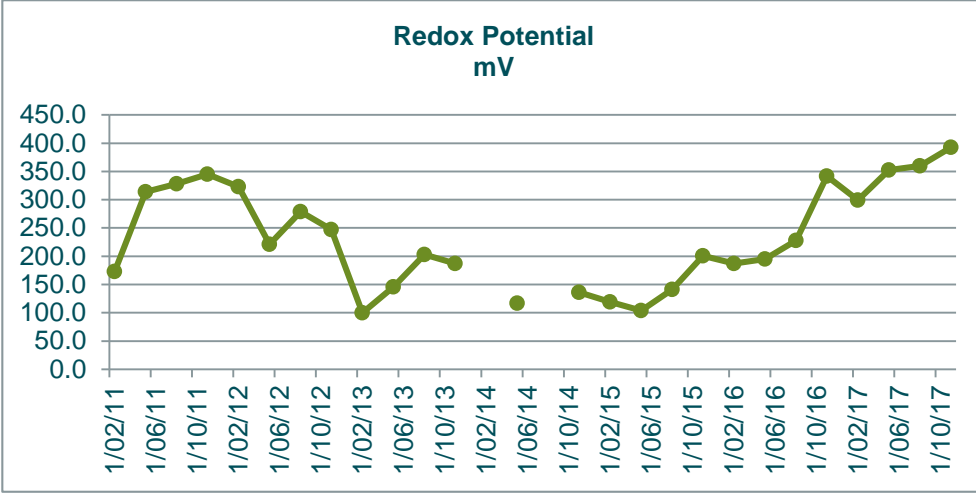
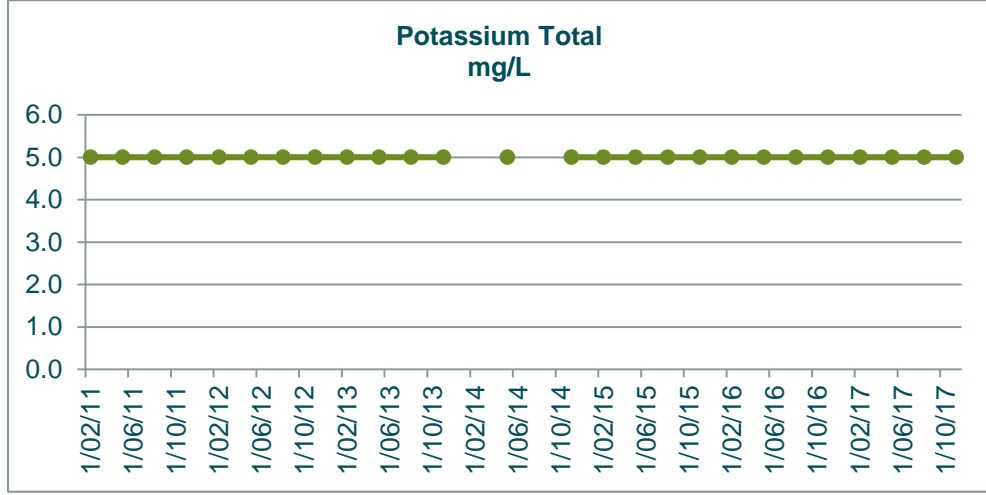
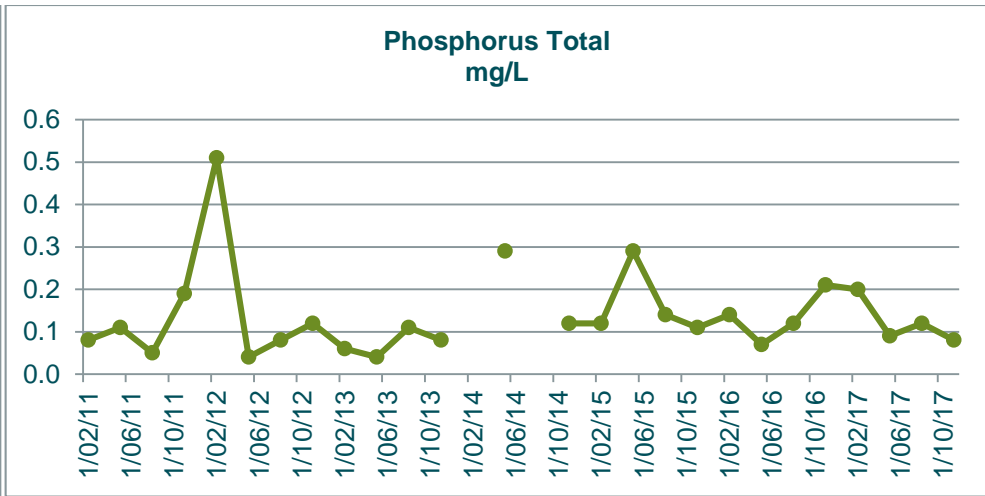
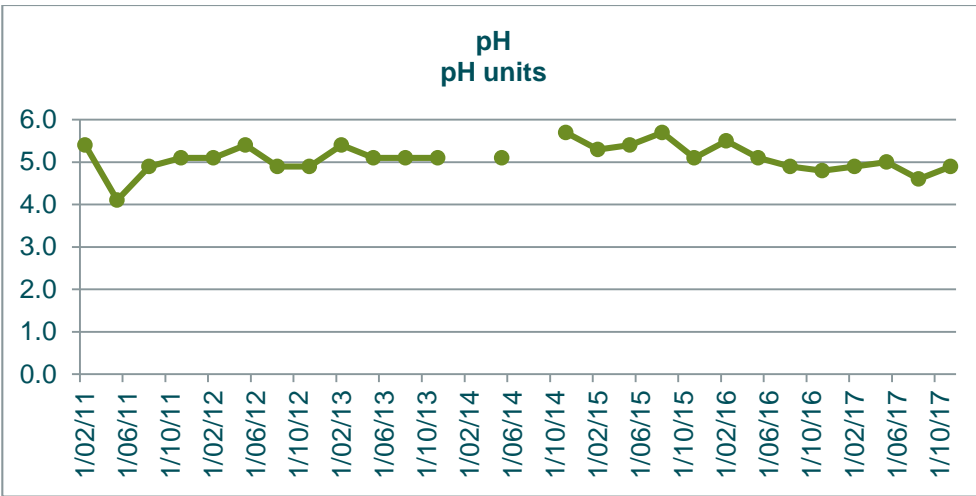
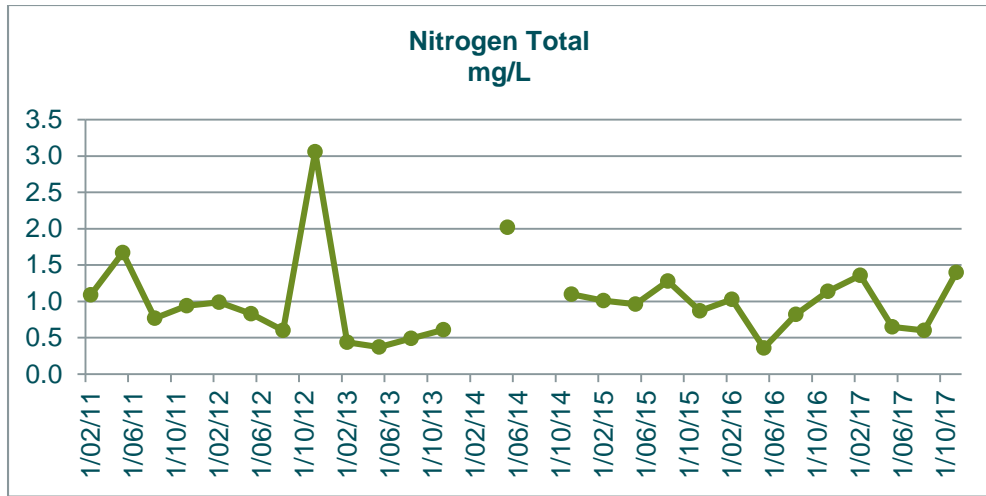




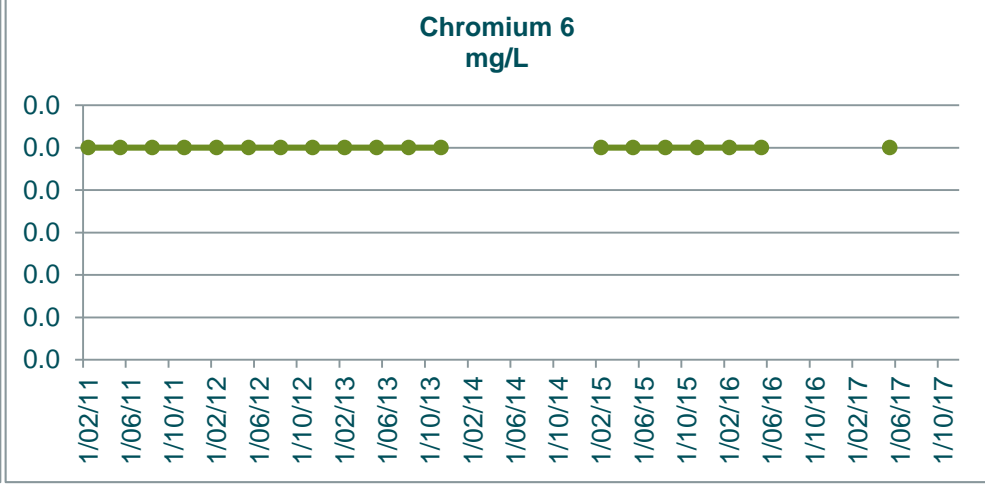
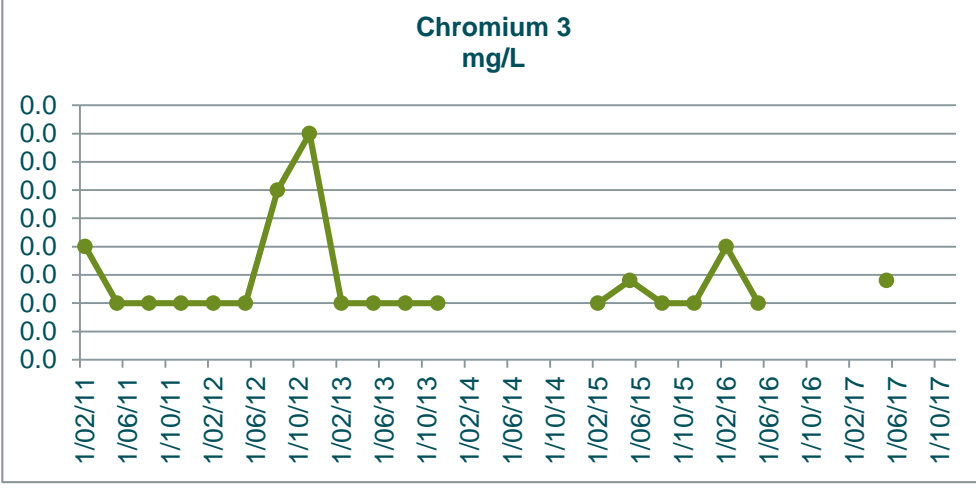
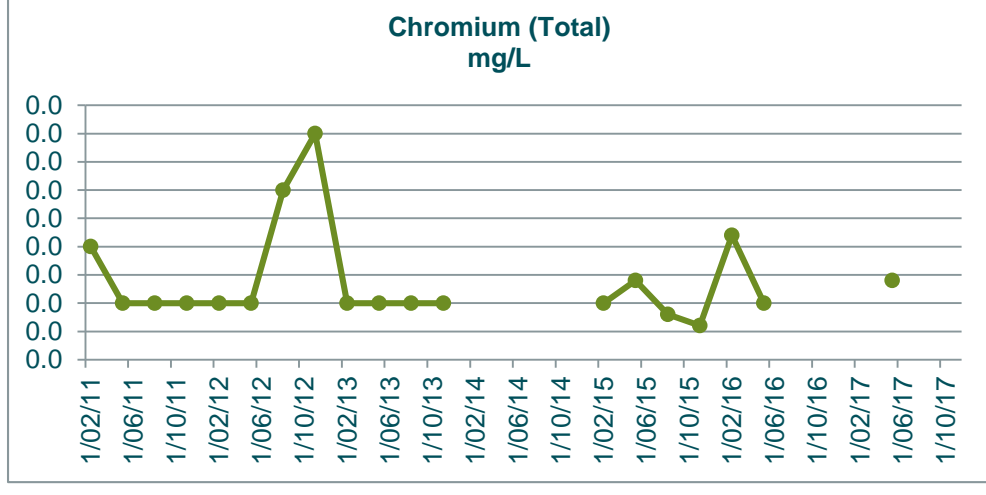
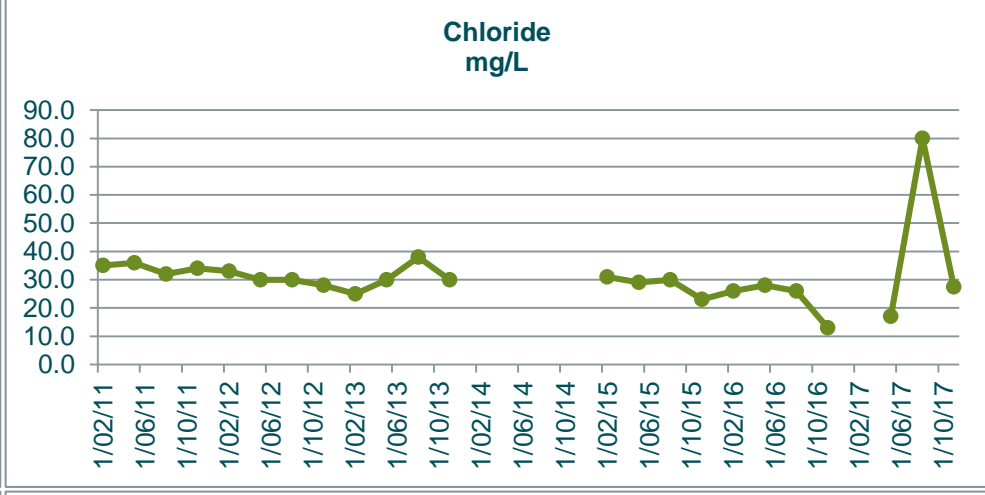
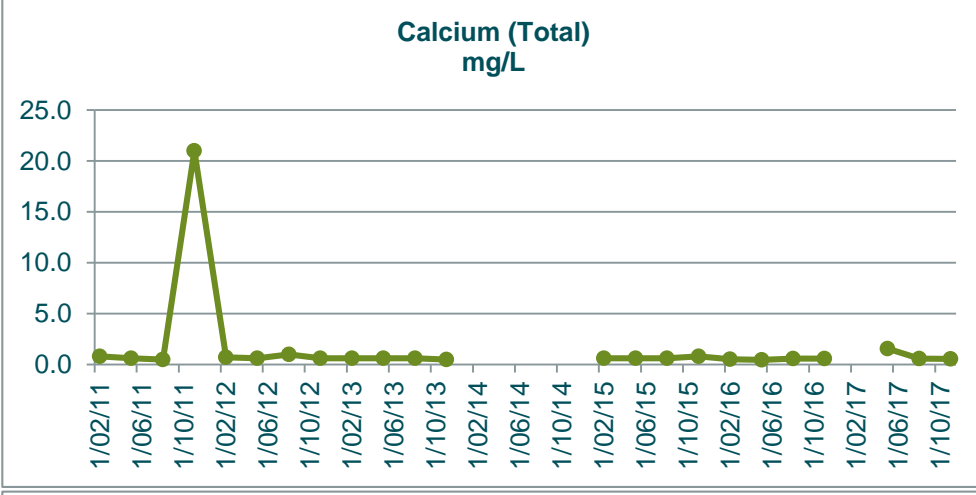
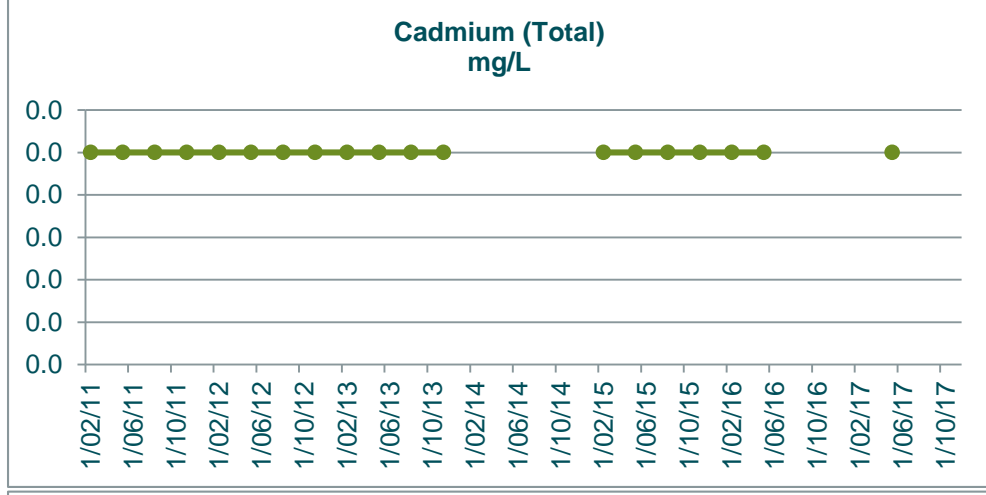
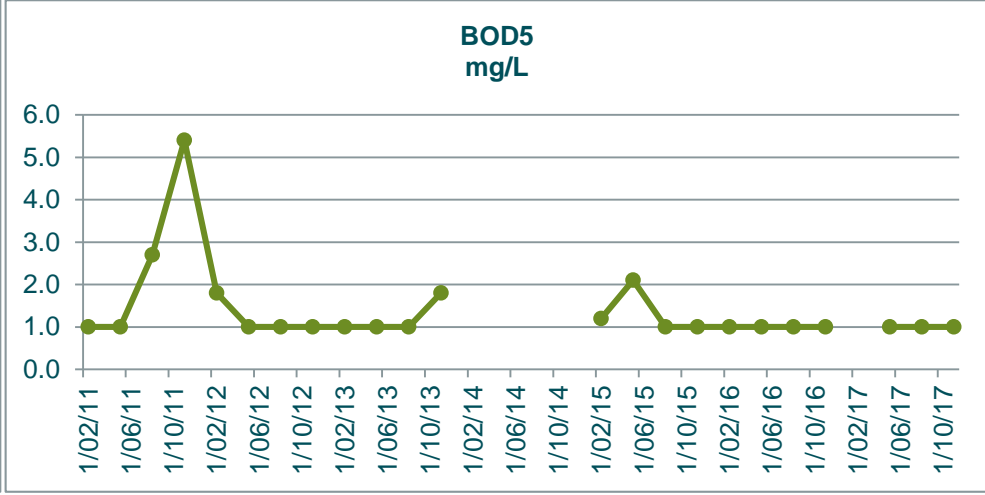
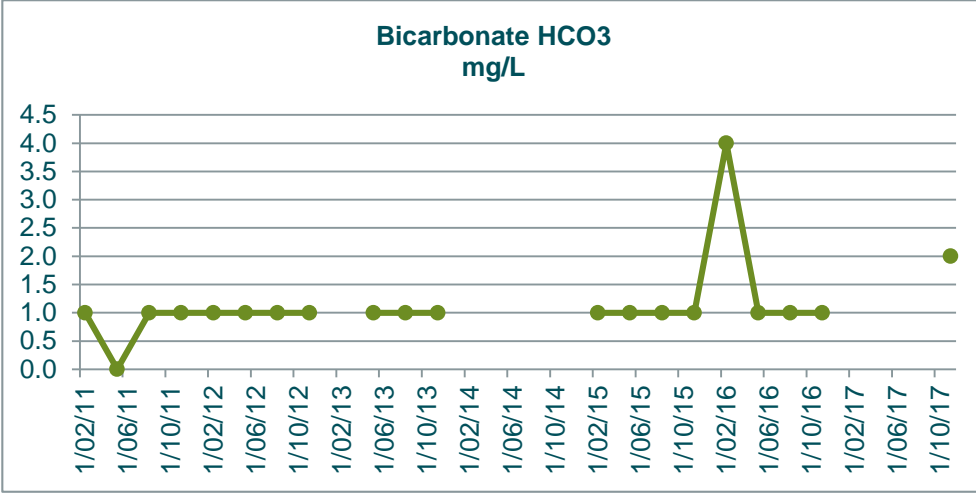
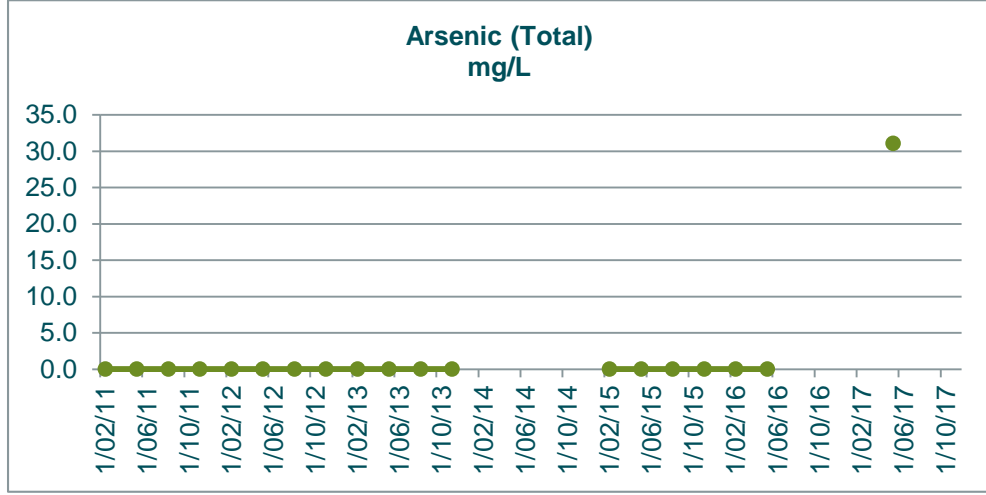
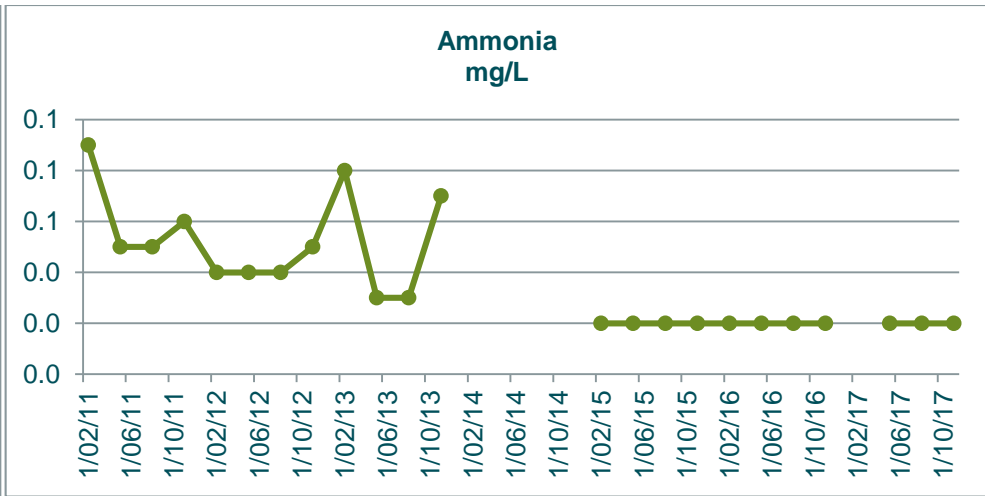
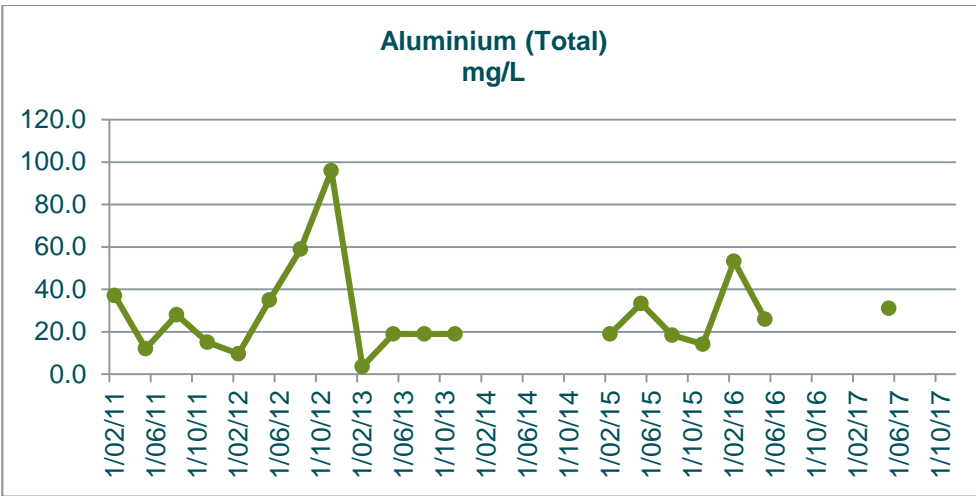
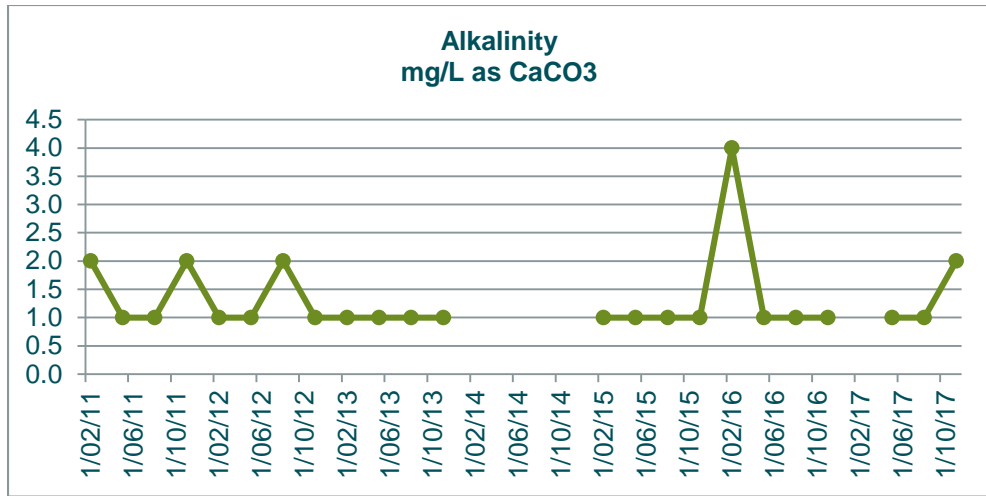
GW11	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L		
1/02/11	12.0	7.7	0.2	0.0	7.0	1.8	0.0	1.7	18.0	0.0	0.0	0.0	109.0	0.0	1.3	0.0	8.2	0.0	1.5	0.6	0.0	0.7	0.1	0.7	1.1	5.4		0.1	5.0	173.0	9.6	7.8	23.0	0.4	1.9	55.0	0.0		
11/05/11	6.0	12.0	0.1	0.0	4.0	1.0	0.0	1.0	21.0	0.0	0.0	0.0	131.0	0.0	1.8	0.0	11.0	0.0	2.0	0.4	0.0	1.3	0.1	1.3	1.7	4.1		0.1	5.0	314.0	12.0	7.5	22.2	0.3	1.2	54.0	0.0		
10/08/11	5.0	24.0	0.1	0.0	3.0	1.8	0.0	0.6	20.0	0.0	0.0	0.0	114.0	0.0	3.3	0.0	19.0	0.0	1.7	0.6	0.0	0.5	0.1	0.5	0.8	4.9		0.1	5.0	328.0	14.0	7.2	20.7	0.3	1.3	52.0	0.1		
9/11/11	6.0	23.0	0.1	0.1	4.0	2.4	0.0	0.7	19.0	0.0	0.0	0.0	101.0	0.0	1.8	0.1	18.0	0.0	2.5	0.5	0.0	0.6	0.0	0.6	0.9	5.1		0.2	5.0	345.0	8.6	12.0	21.5	0.3	0.8	62.0	0.1		
7/02/12	9.0	11.0	0.0	0.0	5.0	1.8	0.0	1.3	13.0	0.0	0.0	0.0	97.0	0.0	2.2	0.0	10.0	0.0	1.9	0.6	0.0	0.7	0.0	0.7	1.0	5.1		0.5	5.0	323.0	14.0	9.7	23.5	0.3	1.4	66.0	0.0		
9/05/12	5.0	11.0	0.1	0.0	3.0	1.0	0.0	0.7	16.0	0.0	0.0	0.0	104.0	0.0	3.0	0.0	9.8	0.0	1.4	0.3	0.0	0.6	0.0	0.6	0.8	5.4		0.0	5.0	221.0	11.0	8.8	22.6	0.2	1.2	52.0	0.0		
7/08/12	6.0	29.0	0.0	0.0	4.0	1.0	0.0	0.8	15.0	0.0	0.0	0.0	98.0	0.1	1.6	0.0	24.0	0.0	1.7	0.7	0.0	0.1	0.0	0.1	0.6	4.9		0.1	5.0	279.0	9.6	9.6	20.7	0.5	0.4	49.0	0.1		
14/11/12	4.0	21.0	0.0	0.0	2.0	1.2	0.0	2.2	20.0	0.0	0.0	0.0	135.0	0.0	5.7	0.1	15.0	0.0	3.6	0.6	0.0	2.7	0.0	2.7	3.1	4.9		0.1	5.0	247.0	12.0	7.2	21.7	0.3	1.3	40.0	0.1		
14/02/13	12.0	15.0	0.1	0.0	7.0	1.0	0.0	1.4	20.0	0.0	0.0	0.0	111.0	0.0	2.1	0.0	13.0	0.0	1.9	1.1	0.0	0.1	0.0	0.1	0.4	5.4		0.1	5.0	100.0	12.0	6.7	23.5	0.4	1.4	70.0	0.1		
15/05/13	6.0	11.0	0.1	0.0	4.0	1.5	0.0	0.8	12.0	0.0	0.0	0.0	68.0	0.0	4.3	0.0	9.2	0.0	0.8	0.4	0.0	0.1	0.0	0.1	0.4	5.1		0.0	5.0	146.0	8.9	6.0	21.6	0.3	1.1	87.0	0.0		
7/08/13	24.0	18.0	0.0	0.0	15.0	1.0	0.0	0.6	14.0	0.0	0.0	0.0	88.0	0.0	3.0	0.0	13.0	0.0	1.3	0.7	0.0	0.2	0.0	0.2	0.5	5.1		0.1	5.0	203.0	14.0	11.0	19.8	0.3	0.7	100.0	0.1		
13/11/13	5.0	28.0	0.1	0.0	3.0	1.8	0.0	0.6	11.0	0.0	0.0	0.0	74.0	0.0	3.8	0.0	21.0	0.0	1.2	0.6	0.0	0.2	0.0	0.2	0.6	5.1		0.1	5.0	187.0	9.2	6.9	23.4	0.4	0.9	53.0	0.1		
11/02/14																																							
14/05/14	7.0	150.0	0.1	0.0	4.0	1.5	0.0	0.4	9.0	0.0	0.0	0.0	100.0	0.2	3.4	0.0	160.0	0.1	1.1	3.0	0.0	0.4	0.0	0.4	2.0	5.1		0.3	5.0	117.0	15.0	8.2	22.4	1.7	1.4	80.0	0.3		
12/08/14																																							
11/11/14	10.0	16.0	0.1	0.0	6.0	3.6	0.0	0.3	13.0	0.0	0.0	0.0	100.0	0.0	3.4	0.0	11.0	0.0	1.7	1.5	0.0	0.1	0.0	0.1	1.1	5.7		0.1	5.0	136.0	15.0	9.4	21.9	1.0	1.0	77.0	0.1		
10/02/15	8.0	19.8	0.0	0.0	5.0	3.9	0.0	0.7	18.0	0.0	0.0	0.0	94.0	0.0	2.0	0.0	9.4	0.0	1.5	1.0	0.0	0.1	0.0	0.1	1.0	5.3		0.1	5.0	119.0	12.0	7.3	24.2	0.9	1.5	84.0	0.0		
12/05/15	12.0	20.7	0.0	0.0	7.0	3.6	0.0	0.8	14.0	0.0	0.0	0.0	93.0	0.0	3.1	0.0	16.1	0.0	1.8	1.8	0.0	0.0	0.0	0.0	1.0	5.4		0.3	5.0	104.0	13.0	5.8	23.4	1.0	1.1	66.0	0.1		
12/08/15	13.0	13.1	0.0	0.0	13.0	3.3	0.0	0.3	15.0	0.0	0.0	0.0	101.0	0.0	2.6	0.0	21.0	0.0	2.0	1.8	0.0	0.0	0.0	0.0	1.3	5.7		0.1	5.0	141.0	15.0	5.3	21.0	1.3	0.9	69.0	0.1		
11/11/15	6.0	13.9	0.0	0.0	6.0	1.0	0.0	1.1	14.0	0.0	0.0	0.0	82.0	0.0	3.8	0.0	16.8	0.0	1.8	0.7	0.0	0.0	0.0	0.0	0.9	5.1		0.1	5.0	201.0	11.0	6.1	21.6	0.8	1.6	65.0	0.1		
9/02/16	7.0	40.0	0.0	0.0	7.0	1.0	0.0	0.4	16.0	0.0	0.0	0.0	98.0	0.1	2.4	0.0	26.5	0.0	1.7	1.5	0.0	0.0	0.0	0.0	1.0	5.5		0.1	5.0	187.0	13.4	7.9	23.1	1.0	1.4	103.0	0.1		
10/05/16	6.0	14.3	0.0	0.0	6.0	1.5	0.0	0.3	18.0	0.0	0.0	0.0	96.0	0.0	1.5	0.0	7.8	0.0	1.7	0.9	0.0	0.0	0.0	0.0	0.4	5.1		0.1	5.0	195.0	13.5	7.0	23.5	0.4	1.2	86.0	0.0		
10/08/16	5.1		0.0		5.0	1.0		0.6	16.0				90.8		3.5	0.0			1.8			0.0	0.0	0.0	0.8	4.9		0.1	5.0	228.0	13.7	6.7	21.0	0.8	1.0	62.6			
8/11/16	4.6		0.0		5.0	1.0		0.3	22.0				87.3		2.7	0.0			1.5			0.0	0.0	0.0	1.1	4.8		0.2	5.0	342.0	14.6	7.9	22.1	1.1	0.8	92.8			
8/02/17	5.5		0.0		6.0	1.0		0.3	17.0				88.6		3.2	0.0			1.3			0.1	0.0	0.1	1.4	4.9		0.2	5.0	299.4	11.8	7.5	23.2	1.3	1.3	119.9			
9/05/17	11.1	10.1	0.0	0.0	11.0	1.5	0.0	0.9	18.0	0.0	0.0	0.0	82.3	0.0	4.1	0.1	5.9	0.0	1.6	0.8	0.0	0.1	0.0	0.1	0.7	5.0		0.1	5.0	352.3	10.3	5.8	22.8	0.6	1.7	48.8	0.1		
9/08/17	4.9		0.0		5.0	1.5		0.4	30.0				90.2		3.1	0.0			1.6			0.0	0.0	0.0	0.6	4.6		0.1	5.0	360.0	12.2	7.5	20.7	0.6	1.0	57.6			
8/11/17	6.2		0.0		6.0	1.5		0.7	17.5				98.6		3.3	0.0			1.9			0.9	0.0	0.9	1.4	4.9		0.1	5.0	392.8	13.4	7.3	21.7	0.5	1.3	63.4			
2017 Min	4.9	10.1	0.0	0.0	5.0	1.0	0.0	0.3	17.0	0.0	0.0	0.0	82.3	0.0	3.1	0.0	5.9	0.0	1.3	0.8	0.0	0.0	0.0	0.0	0.6	4.6		0.1	5.0	299.4	10.3	5.8	20.7	0.5	1.0	48.8	0.1		
2017 Max	11.1	10.1	0.0	0.0	11.0	1.5	0.0	0.9	30.0	0.0	0.0	0.0	98.6	0.0	4.1	0.1	5.9	0.0	1.9	0.8	0.0	0.9	0.0	0.9	1.4	5.0		0.2	5.0	392.8	13.4	7.5	23.2	1.3	1.7	119.9	0.1		
2017 Mean	6.9	10.1	0.0	0.0	7.0	1.4	0.0	0.6	20.6	0.0	0.0	0.0	89.9	0.0	3.4	0.0	5.9	0.0	1.6	0.8	0.0	0.3	0.0	0.3	1.0	4.9		0.1	5.0	351.1	11.9	7.0	22.1	0.7	1.3	72.4	0.1		

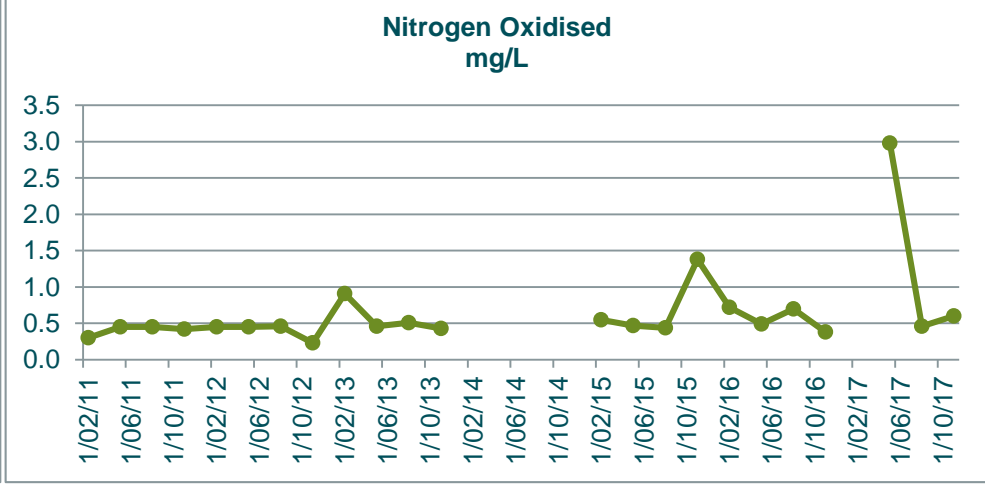
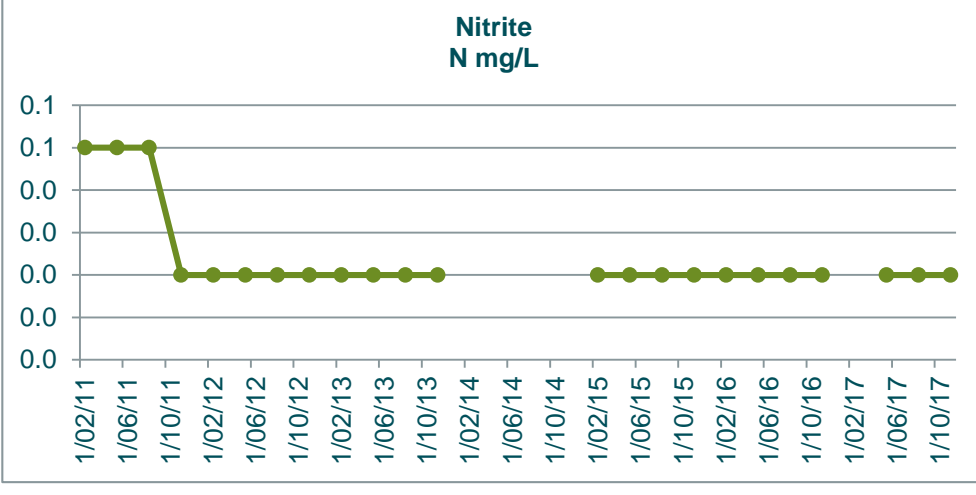
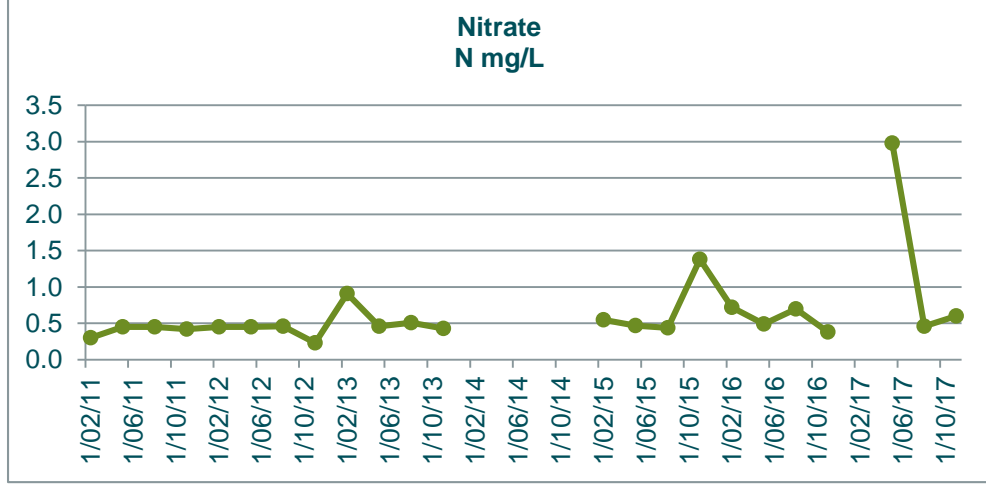
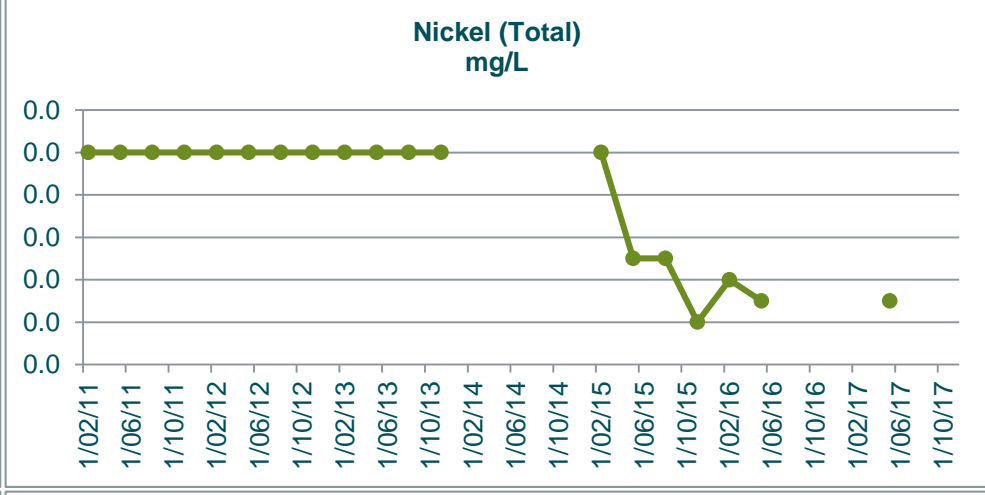
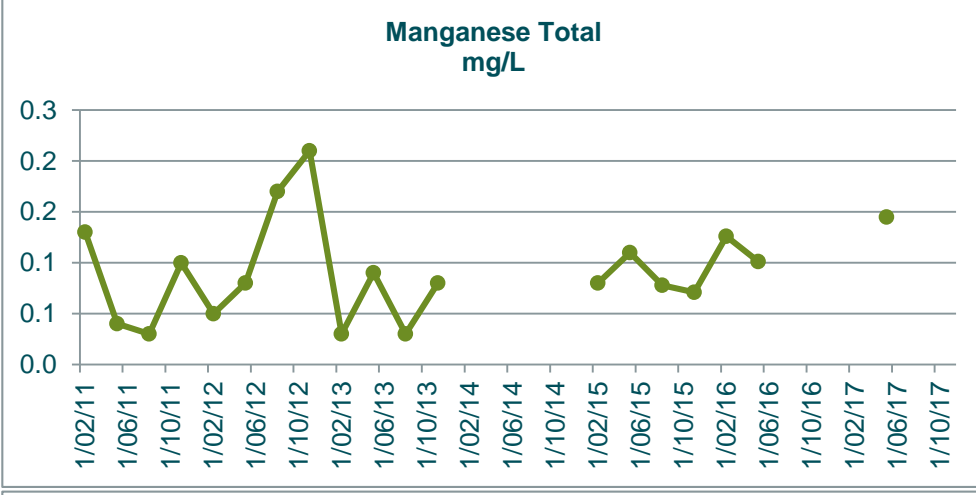
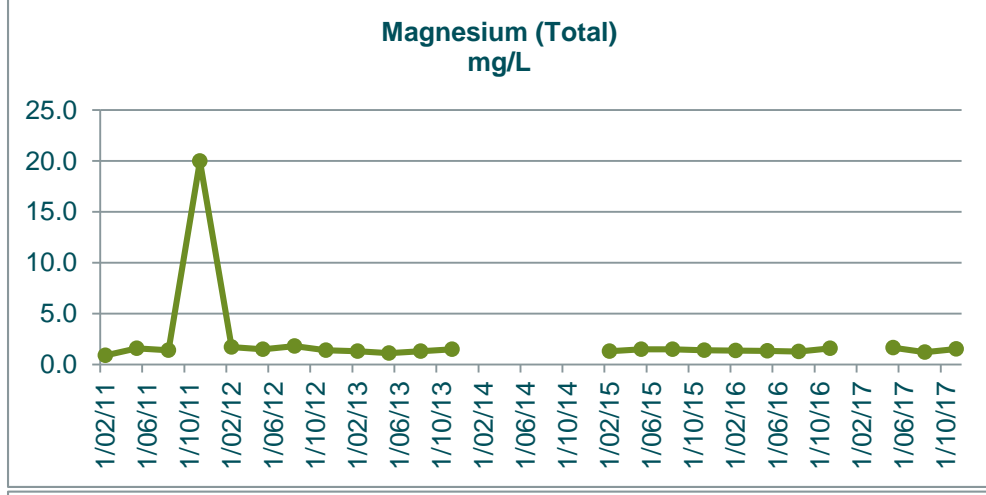
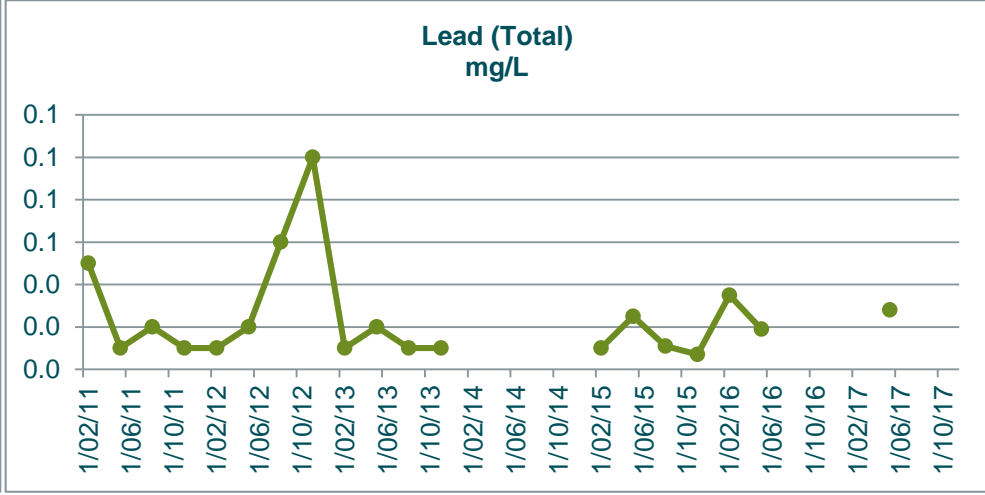
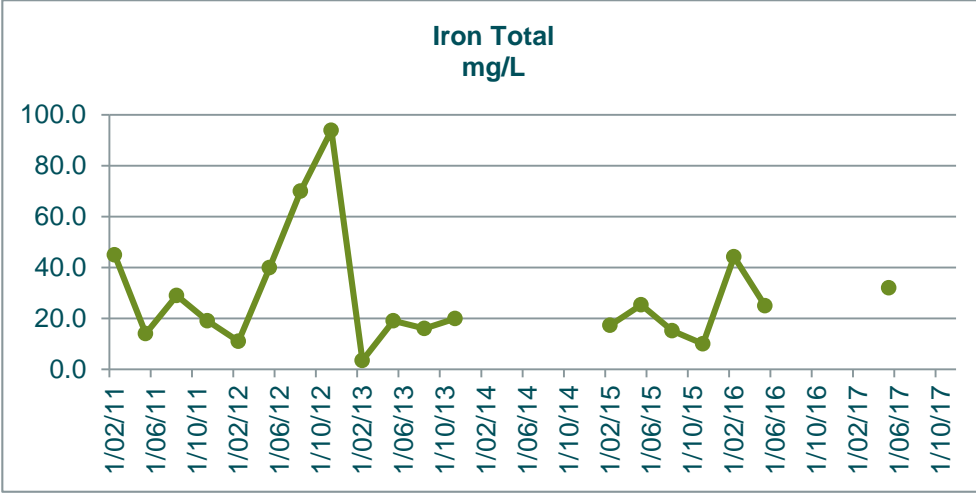
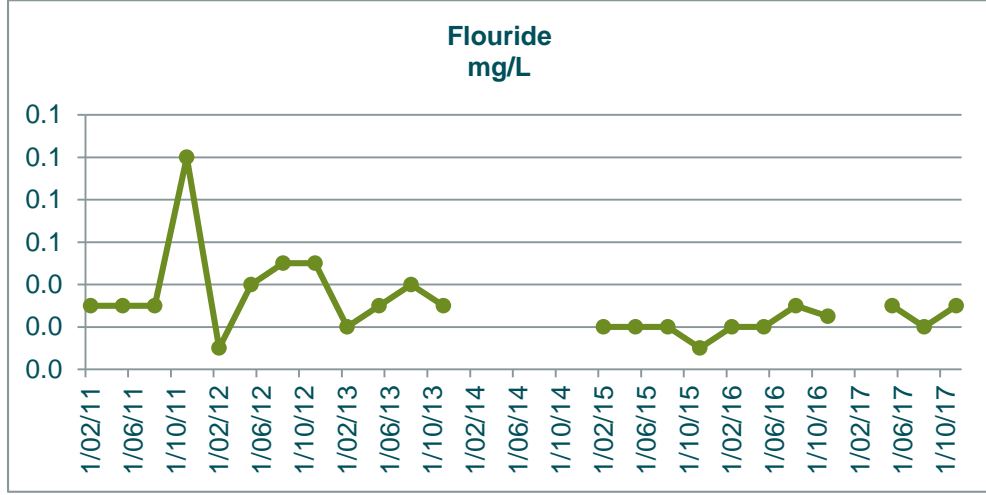
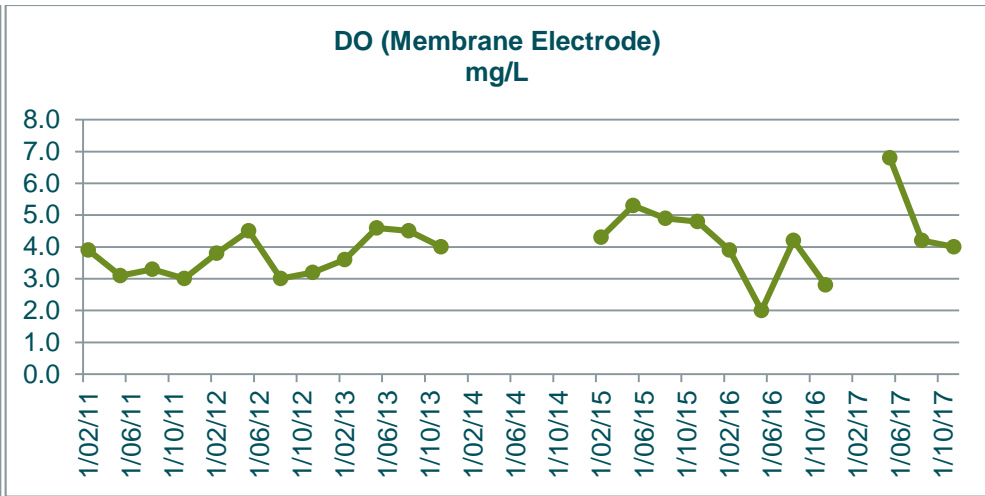
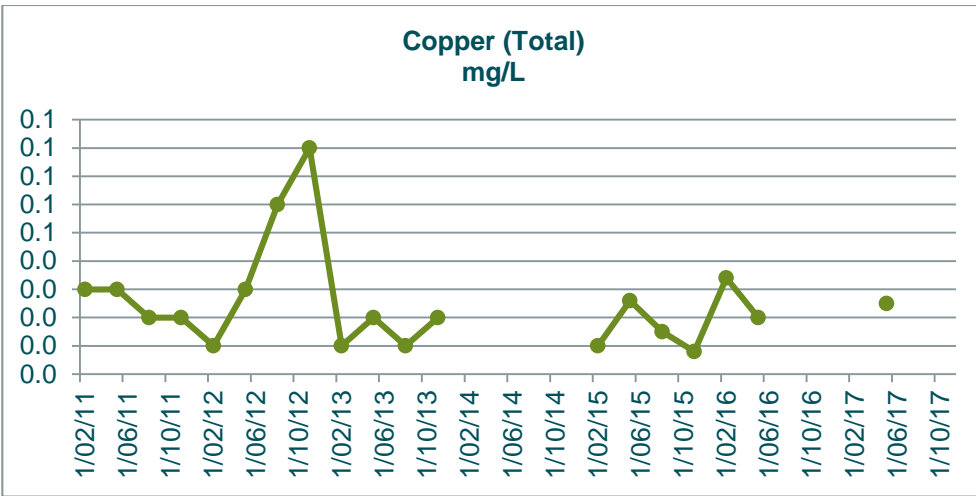
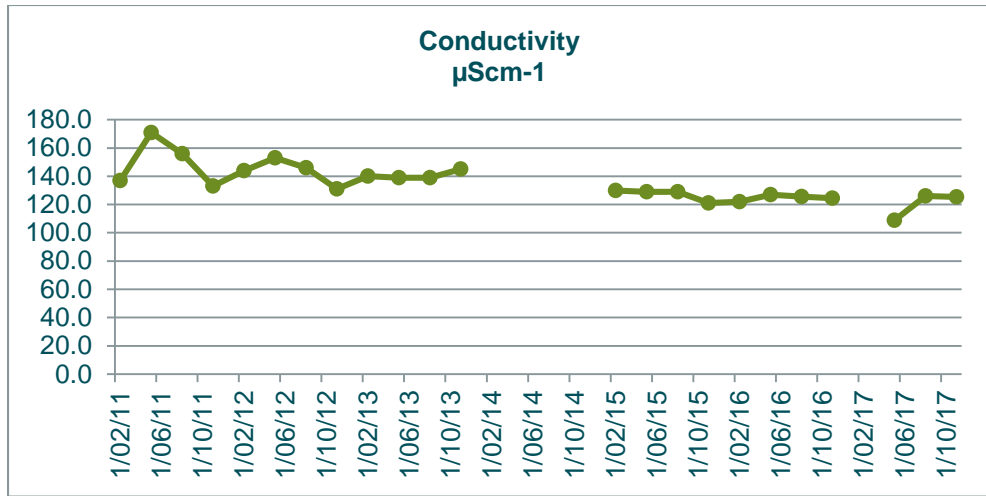


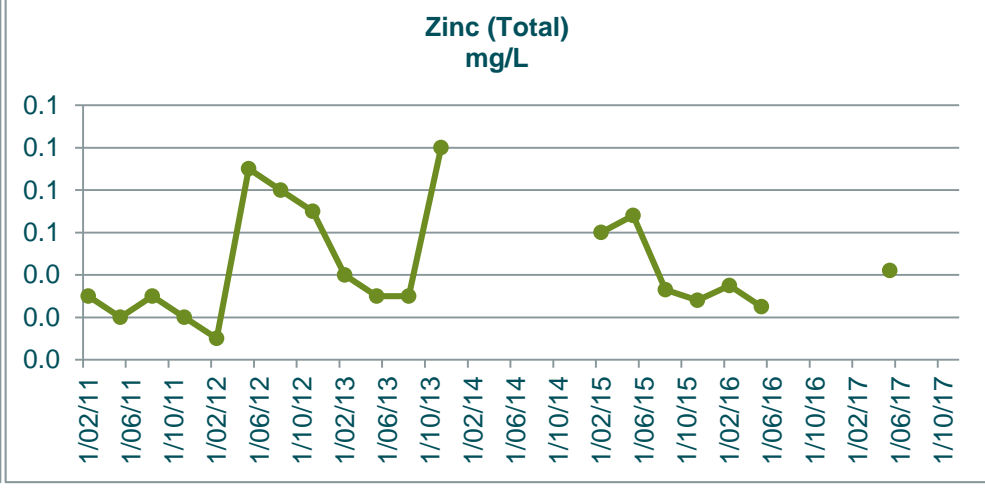
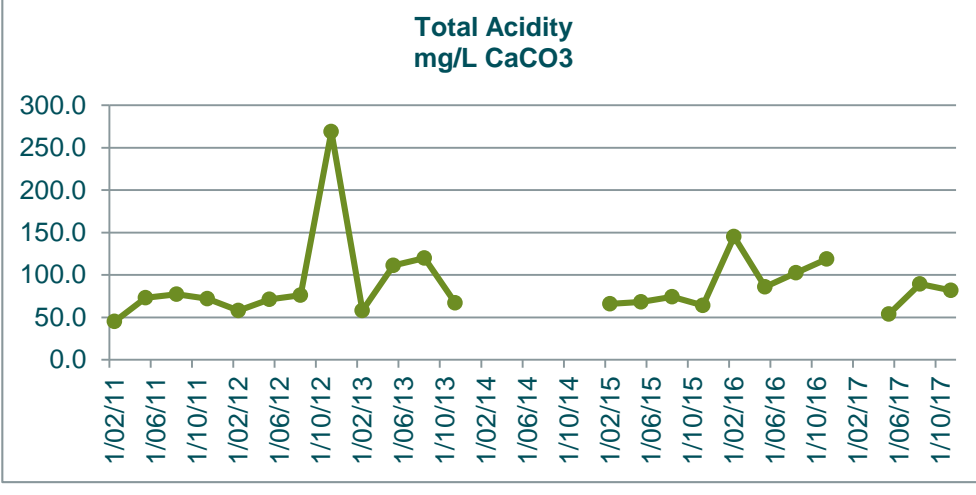
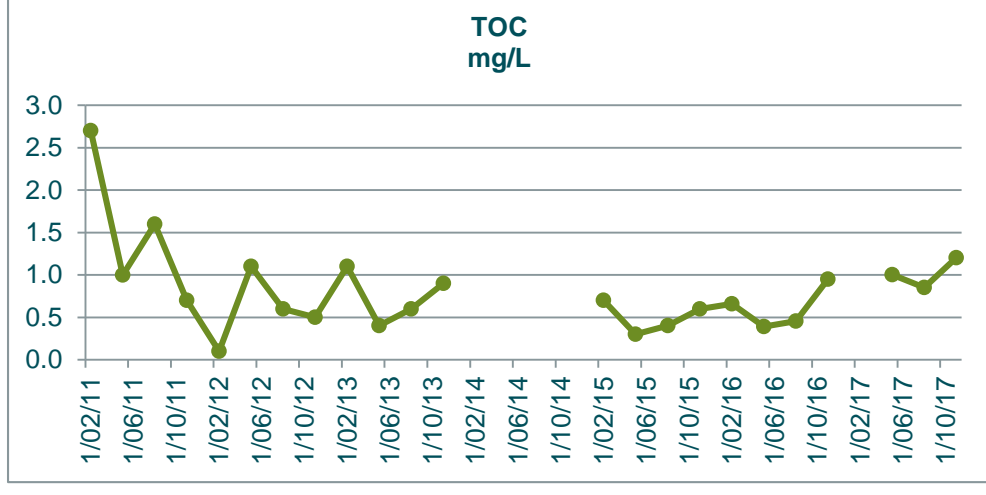
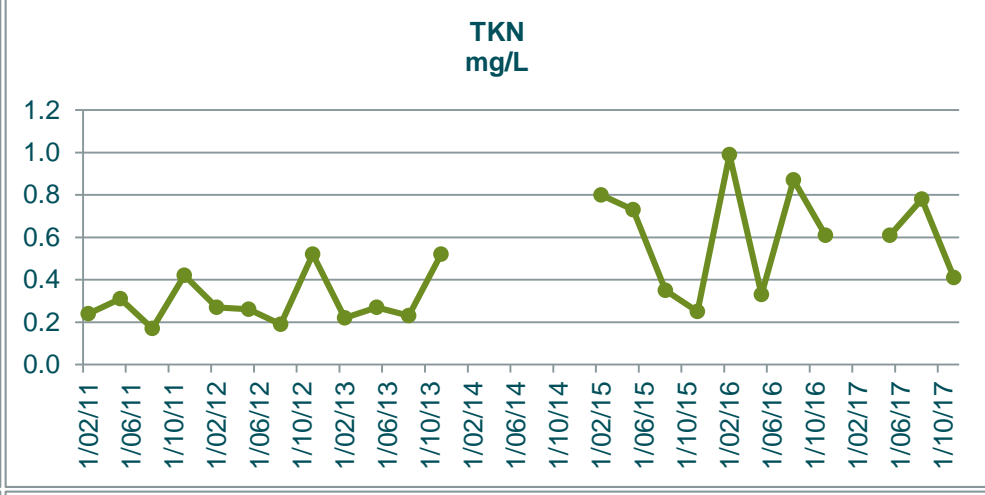
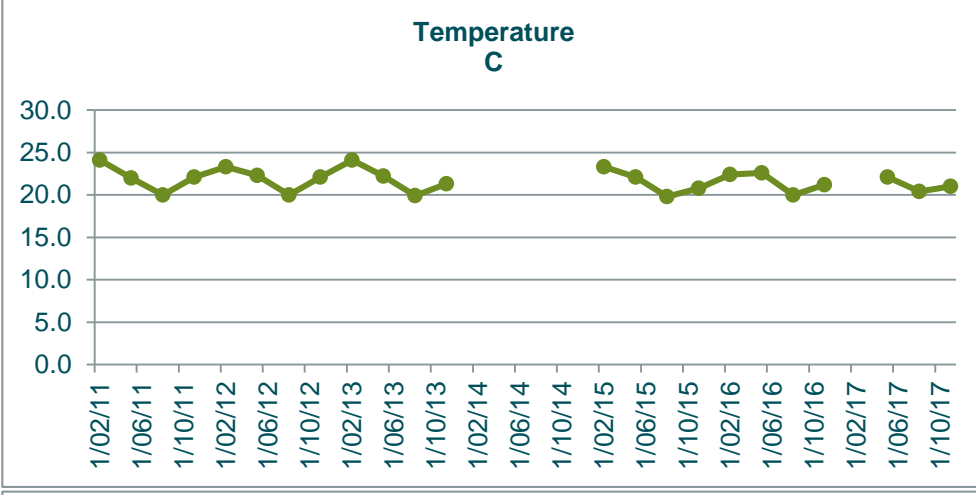
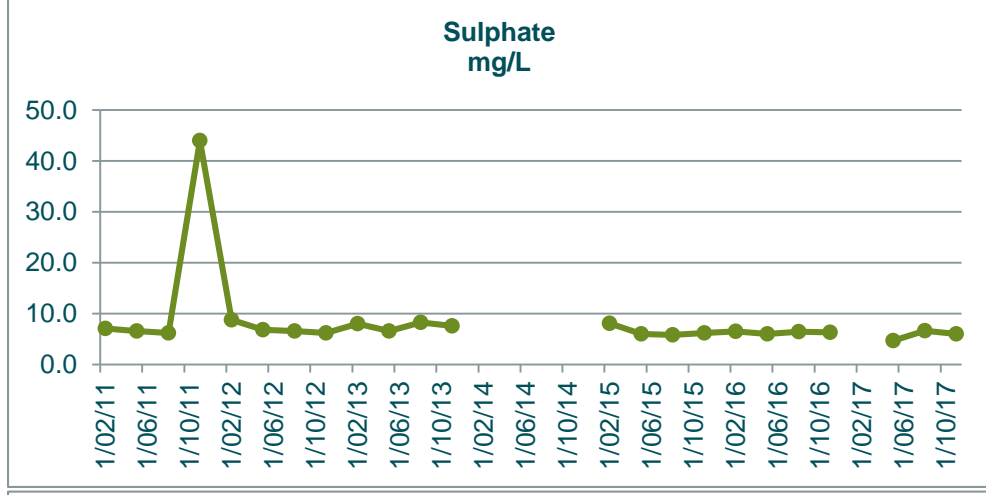
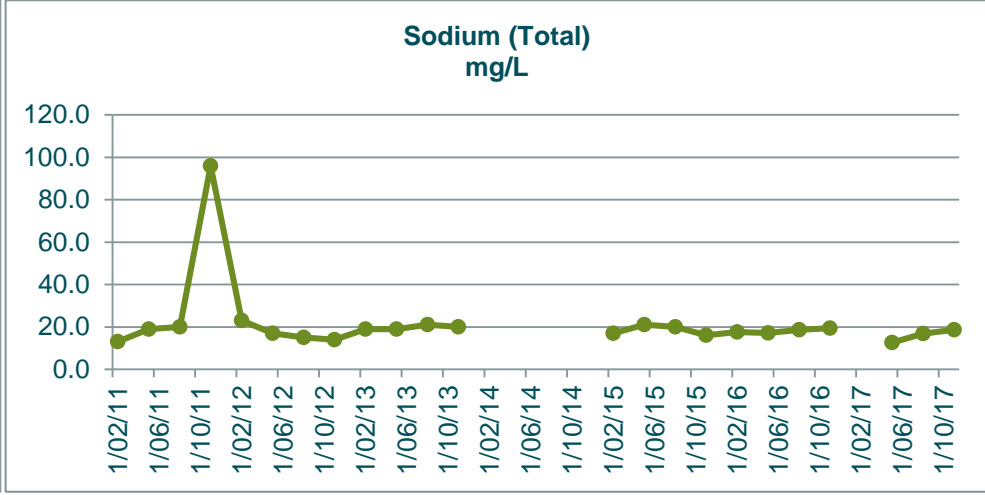
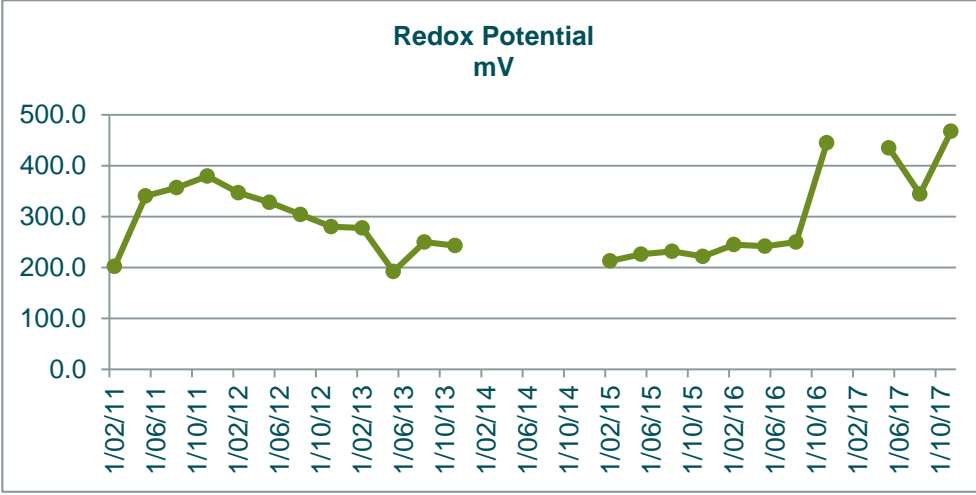
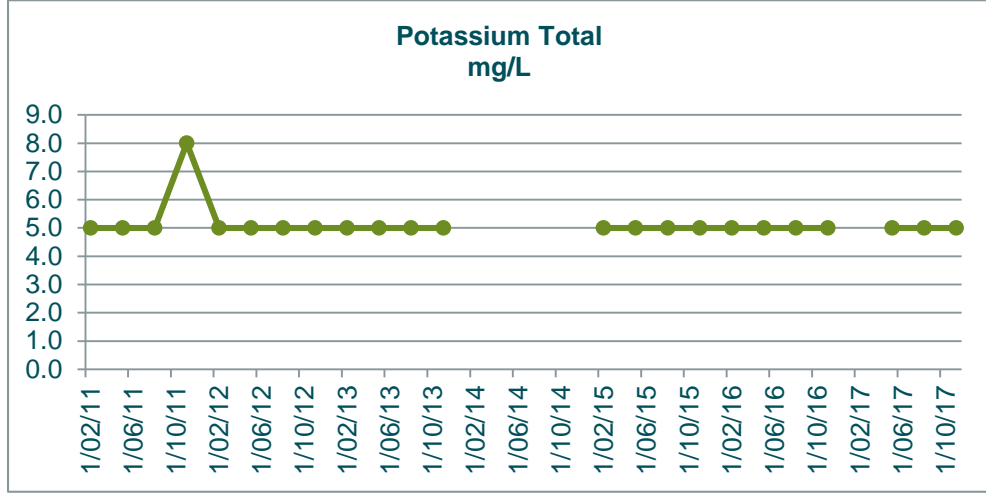
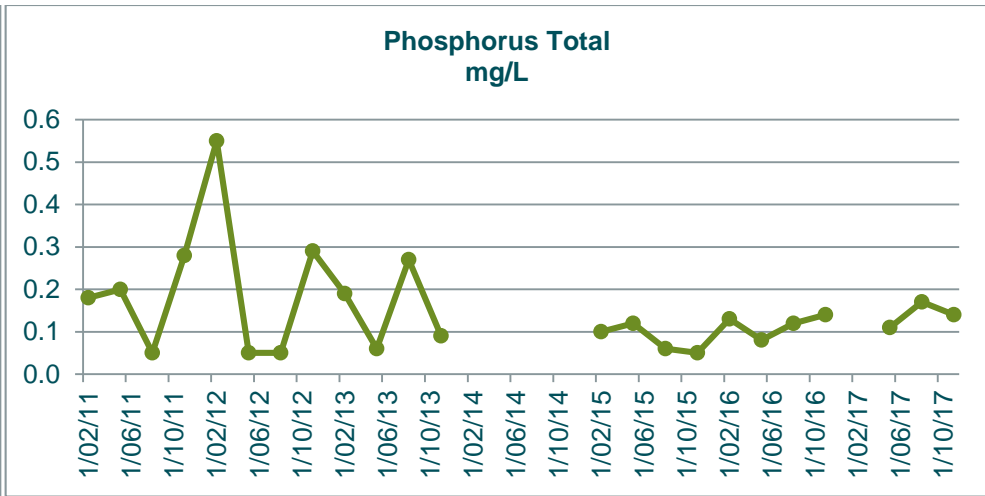
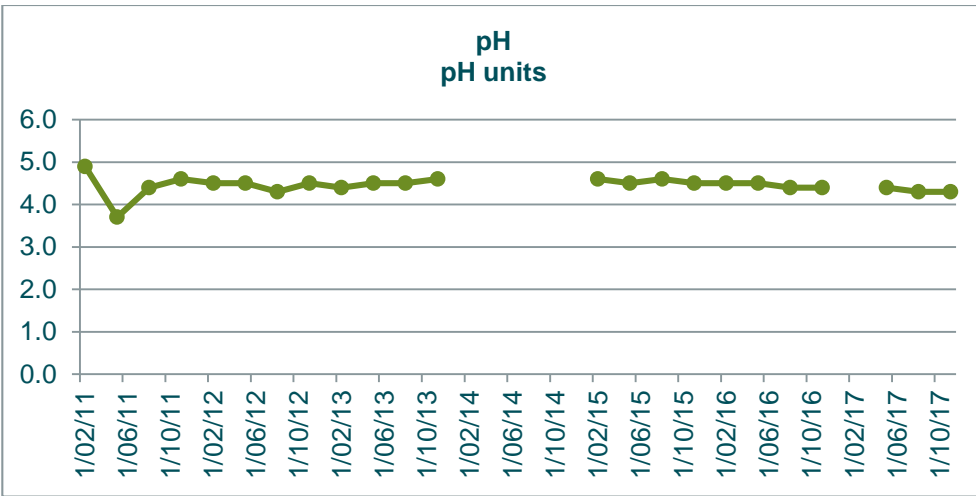
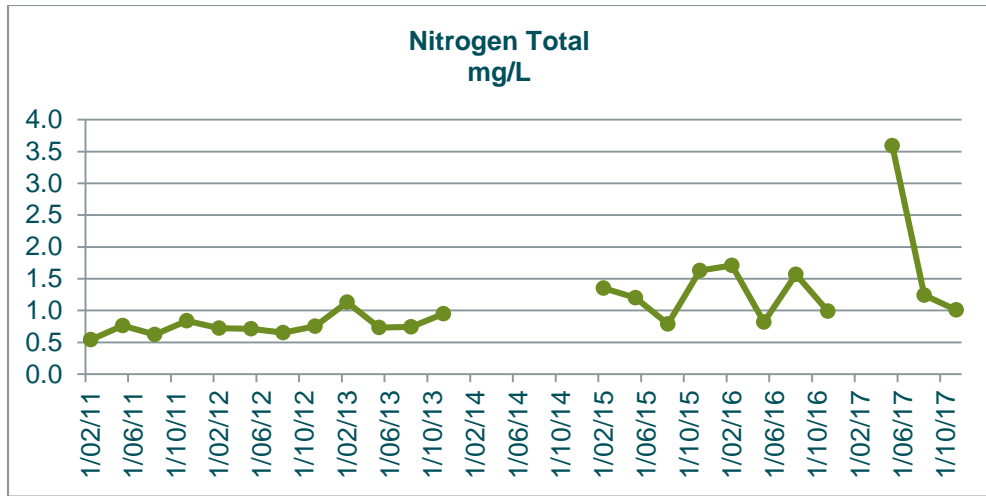




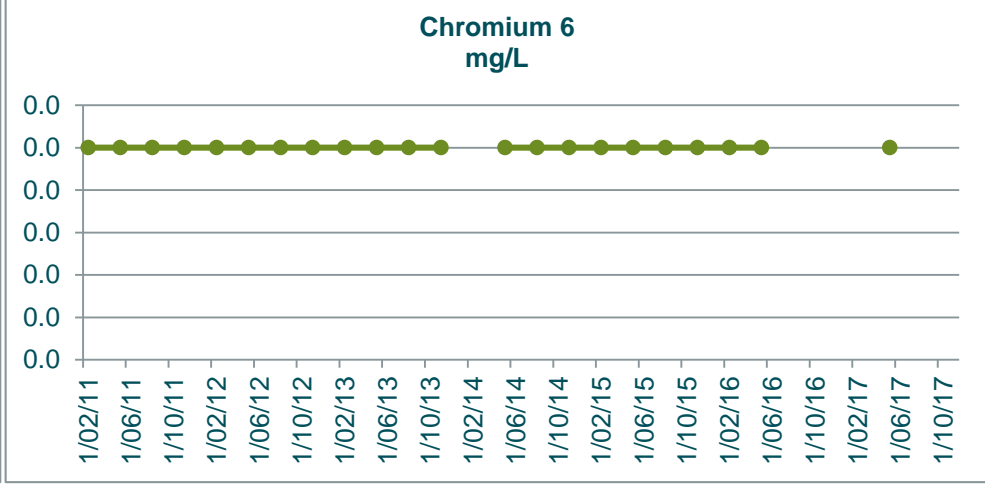
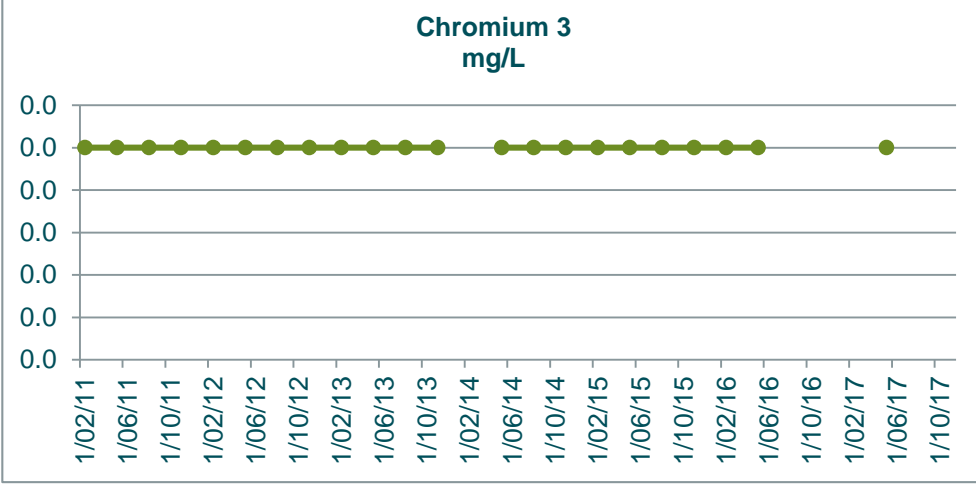
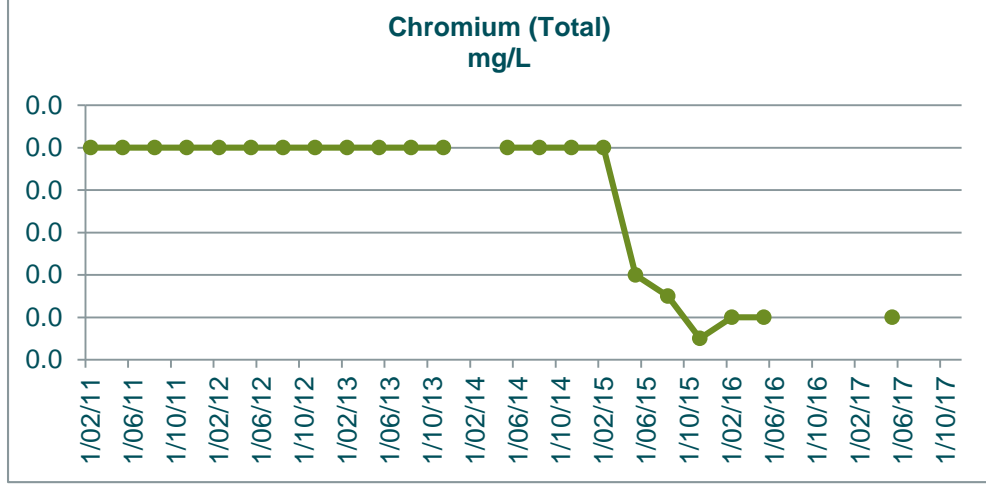
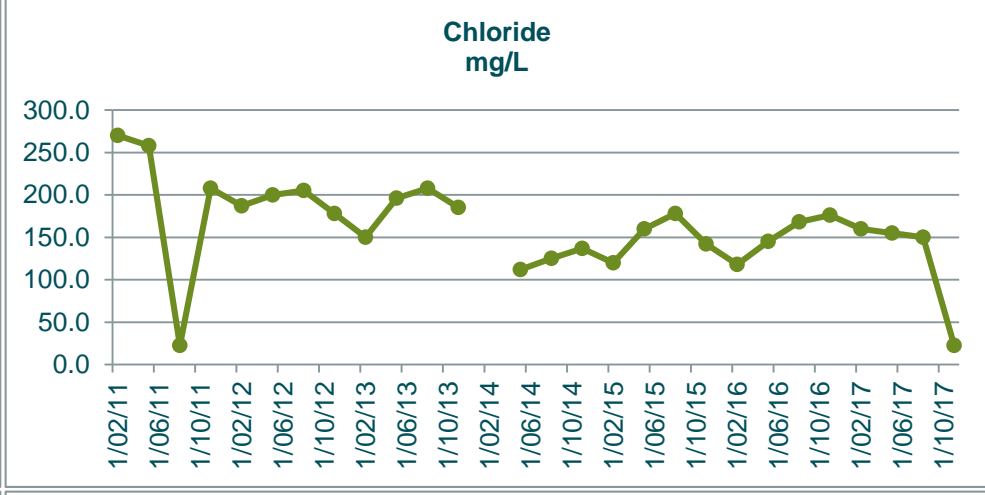
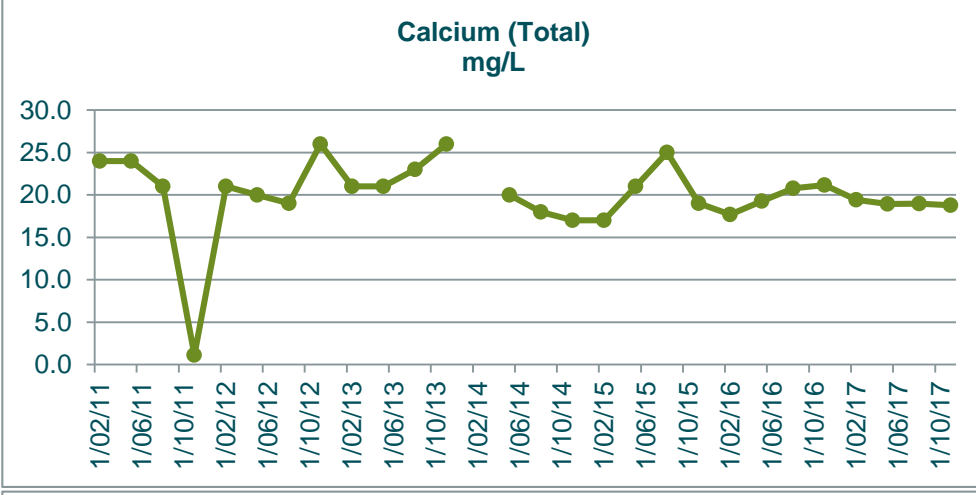
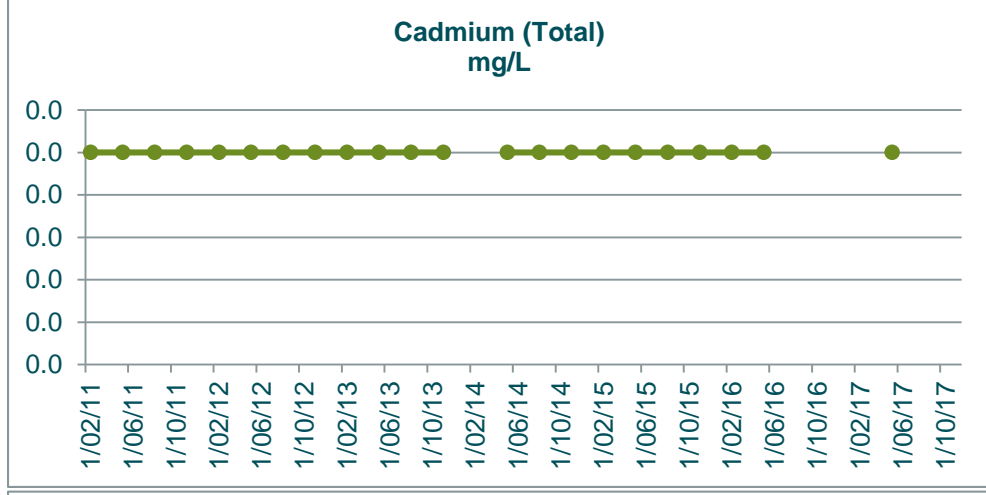
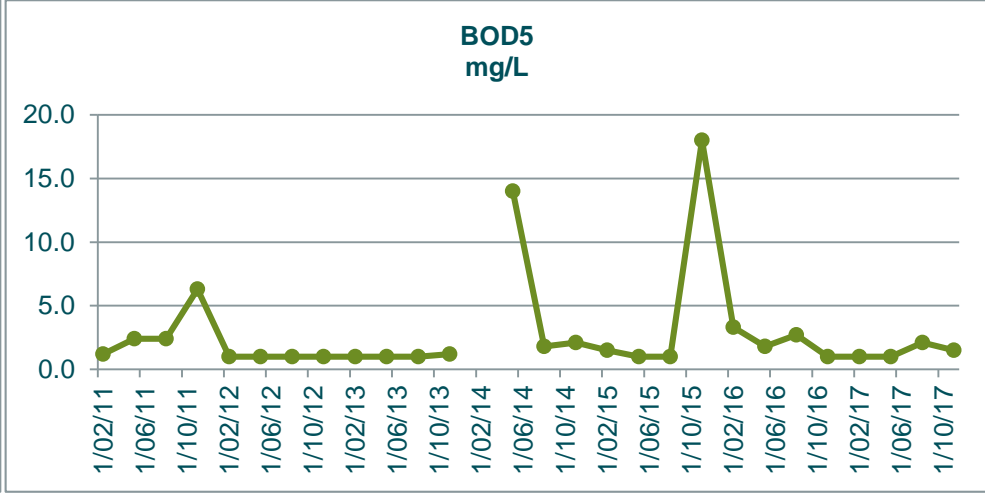
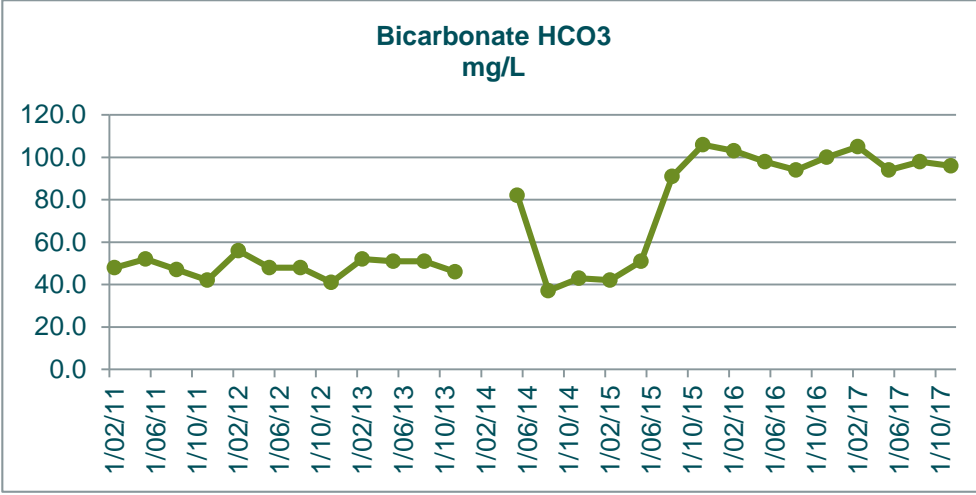
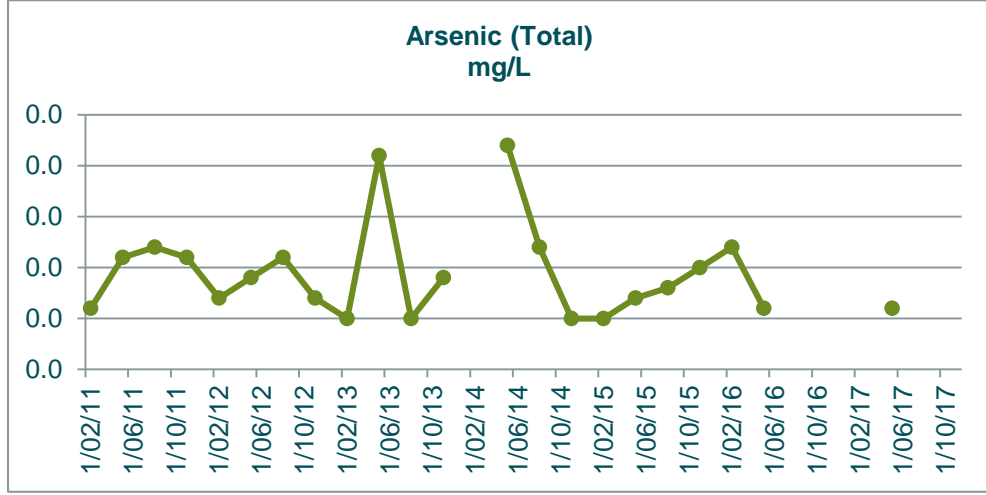
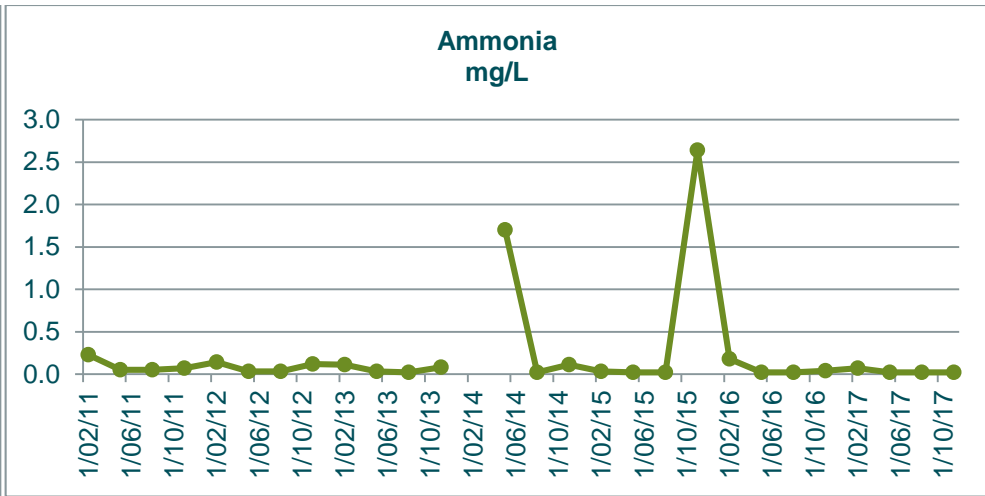
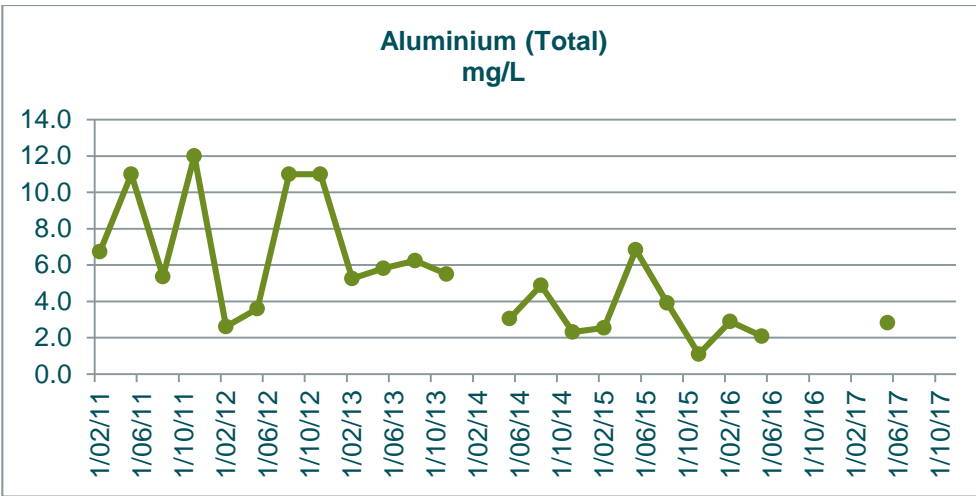
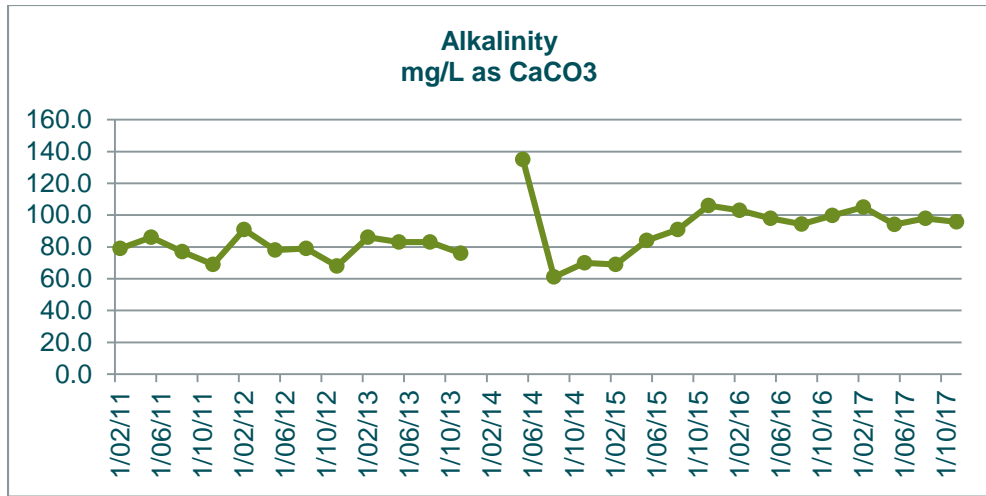
GW14	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L		
1/02/11	2.0	37.0	0.1	0.0	1.0	1.0	0.0	0.8	35.0	0.0	0.0	0.0	137.0	0.0	3.9	0.0	45.0	0.1	0.9	0.1	0.0	0.3	0.1	0.3	0.5	4.9		0.2	5.0	202.0	13.0	7.1	24.1	0.2	2.7	45.0	0.0		
11/05/11	1.0	12.0	0.1	0.0	NT	1.0	0.0	0.6	36.0	0.0	0.0	0.0	171.0	0.0	3.1	0.0	14.0	0.0	1.6	0.0	0.0	0.5	0.1	0.5	0.8	3.7		0.2	5.0	341.0	19.0	6.6	22.0	0.3	1.0	73.0	0.0		
10/08/11	1.0	28.0	0.1	0.0	1.0	2.7	0.0	0.5	32.0	0.0	0.0	0.0	156.0	0.0	3.3	0.0	29.0	0.0	1.4	0.0	0.0	0.5	0.1	0.5	0.6	4.4		0.1	5.0	357.0	20.0	6.2	20.0	0.2	1.6	77.0	0.0		
9/11/11	2.0	15.0	0.1	0.0	1.0	5.4	0.0	21.0	34.0	0.0	0.0	0.0	133.0	0.0	3.0	0.1	19.0	0.0	20.0	0.1	0.0	0.4	0.0	0.4	0.8	4.6		0.3	8.0	380.0	96.0	44.0	22.1	0.4	0.7	72.0	0.0		
7/02/12	1.0	9.5	0.0	0.0	1.0	1.8	0.0	0.7	33.0	0.0	0.0	0.0	144.0	0.0	3.8	0.0	11.0	0.0	1.7	0.1	0.0	0.5	0.0	0.5	0.7	4.5		0.6	5.0	347.0	23.0	8.8	23.3	0.3	0.1	58.0	0.0		
9/05/12	1.0	35.0	0.0	0.0	1.0	1.0	0.0	0.6	30.0	0.0	0.0	0.0	153.0	0.0	4.5	0.0	40.0	0.0	1.5	0.1	0.0	0.5	0.0	0.5	0.7	4.5		0.1	5.0	328.0	17.0	6.8	22.3	0.3	1.1	71.0	0.1		
7/08/12	2.0	59.0	0.0	0.0	1.0	1.0	0.0	1.0	30.0	0.0	0.0	0.0	146.0	0.1	3.0	0.1	70.0	0.1	1.8	0.2	0.0	0.5	0.0	0.5	0.7	4.3		0.1	5.0	304.0	15.0	6.6	20.0	0.2	0.6	76.0	0.1		
14/11/12	1.0	96.0	0.1	0.0	1.0	1.0	0.0	0.6	28.0	0.0	0.0	0.0	131.0	0.1	3.2	0.1	94.0	0.1	1.4	0.2	0.0	0.2	0.0	0.2	0.8	4.5		0.3	5.0	280.0	14.0	6.2	22.1	0.5	0.5	269.0	0.1		
14/02/13	1.0	3.5	0.1	0.0		1.0	0.0	0.6	25.0	0.0	0.0	0.0	140.0	0.0	3.6	0.0	3.4	0.0	1.3	0.0	0.0	0.9	0.0	0.9	1.1	4.4		0.2	5.0	278.0	19.0	8.0	24.1	0.2	1.1	58.0	0.0		
15/05/13	1.0	19.0	0.0	0.0	1.0	1.0	0.0	0.6	30.0	0.0	0.0	0.0	139.0	0.0	4.6	0.0	19.0	0.0	1.1	0.1	0.0	0.5	0.0	0.5	0.7	4.5		0.1	5.0	192.0	19.0	6.6	22.2	0.3	0.4	111.0	0.0		
7/08/13	1.0	19.0	0.0	0.0	1.0	1.0	0.0	0.6	38.0	0.0	0.0	0.0	139.0	0.0	4.5	0.0	16.0	0.0	1.3	0.0	0.0	0.5	0.0	0.5	0.7	4.5		0.3	5.0	250.0	21.0	8.3	19.9	0.2	0.6	120.0	0.0		
13/11/13	1.0	19.0	0.1	0.0	1.0	1.8	0.0	0.5	30.0	0.0	0.0	0.0	145.0	0.0	4.0	0.0	20.0	0.0	1.5	0.1	0.0	0.4	0.0	0.4	1.0	4.6		0.1	5.0	243.0	20.0	7.6	21.3	0.5	0.9	67.0	0.1		
11/02/14																																							
13/05/14																																							
12/08/14																																							
10/11/14																																							
10/02/15	1.0	18.9	0.0	0.0	1.0	1.2	0.0	0.6	31.0	0.0	0.0	0.0	130.0	0.0	4.3	0.0	17.3	0.0	1.3	0.1	0.0	0.6	0.0	0.6	1.4	4.6		0.1	5.0	213.0	17.0	8.1	23.3	0.8	0.7	66.0	0.1		
12/05/15	1.0	33.3	0.0	0.0	1.0	2.1	0.0	0.6	29.0	0.0	0.0	0.0	129.0	0.0	5.3	0.0	25.4	0.0	1.5	0.1	0.0	0.5	0.0	0.5	1.2	4.5		0.1	5.0	226.0	21.0	6.0	22.1	0.7	0.3	68.0	0.1		
12/08/15	1.0	18.3	0.0	0.0	1.0	1.0	0.0	0.6	30.0	0.0	0.0	0.0	129.0	0.0	4.9	0.0	15.1	0.0	1.5	0.1	0.0	0.4	0.0	0.4	0.8	4.6		0.1	5.0	232.0	20.0	5.8	19.8	0.4	0.4	74.0	0.0		
11/11/15	1.0	14.1	0.0	0.0	1.0	1.0	0.0	0.8	23.0	0.0	0.0	0.0	121.0	0.0	4.8	0.0	10.1	0.0	1.4	0.1	0.0	1.4	0.0	1.4	1.6	4.5		0.1	5.0	222.0	16.0	6.2	20.8	0.3	0.6	64.0	0.0		
9/02/16	4.0	53.2	0.0	0.0	4.0	1.0	0.0	0.5	26.0	0.0	0.0	0.0	122.0	0.0	3.9	0.0	44.2	0.0	1.4	0.1	0.0	0.7	0.0	0.7	1.7	4.5		0.1	5.0	245.0	17.5	6.5	22.4	1.0	0.7	145.0	0.0		
10/05/16	1.0	25.9	0.0	0.0	1.0	1.0	0.0	0.5	28.0	0.0	0.0	0.0	127.0	0.0	2.0	0.0	25.0	0.0	1.3	0.1	0.0	0.5	0.0	0.5	0.8	4.5		0.1	5.0	242.0	17.1	6.0	22.6	0.3	0.4	86.0	0.0		
10/08/16	1.0		0.0		1.0	1.0		0.6	26.0				125.5		4.2	0.0			1.3			0.7	0.0	0.7	1.6	4.4		0.1	5.0	250.0	18.7	6.5	20.0	0.9	0.5	102.5			
8/11/16	1.0		0.0		1.0	1.0		0.6	13.0				124.4		2.8	0.0			1.6			0.4	0.0	0.4	1.0	4.4		0.1	5.0	444.9	19.5	6.3	21.2	0.6	1.0	118.8			
7/02/17																																							
9/05/17	1.0	31.1	0.0	31.1		1.0	0.0	1.6	17.0	0.0	0.0	0.0	108.8	0.0	6.8	0.0	32.0	0.0	1.7	0.1	0.0	3.0	0.0	3.0	3.6	4.4		0.1	5.0	434.8	12.6	4.7	22.1	0.6	1.0	53.9	0.0		
9/08/17	1.0		0.0			1.0		0.6	80.0				126.1		4.2	0.0			1.2			0.5	0.0	0.5	1.2	4.3		0.2	5.0	344.6	16.9	6.6	20.4	0.8	0.9	89.1			
8/11/17	2.0		0.0		2.0	1.0		0.5	27.5				125.3		4.0	0.0			1.5			0.6	0.0	0.6	1.0	4.3		0.1	5.0	468.1	18.6	6.0	21.0	0.4	1.2	81.9			
2017 Min	1.0	31.1	0.0	31.1	2.0	1.0	0.0	0.5	17.0	0.0	0.0	0.0	108.8	0.0	4.0	0.0	32.0	0.0	1.2	0.1	0.0	0.5	0.0	0.5	1.0	4.3		0.1	5.0	344.6	12.6	4.7	20.4	0.4	0.9	53.9	0.0		
2017 Max	2.0	31.1	0.0	31.1	2.0	1.0	0.0	1.6	80.0	0.0	0.0	0.0	126.1	0.0	6.8	0.0	32.0	0.0	1.7	0.1	0.0	3.0	0.0	3.0	3.6	4.4		0.2	5.0	468.1	18.6	6.6	22.1	0.8	1.2	89.1	0.0		
2017 Mean	1.3	31.1	0.0	31.1	2.0	1.0	0.0	0.9	41.5	0.0	0.0	0.0	120.1	0.0	5.0	0.0	32.0	0.0	1.5	0.1	0.0	1.3	0.0	1.3	1.9	4.3		0.1	5.0	415.8	16.0	5.8	21.2	0.6	1.0	75.0	0.0		

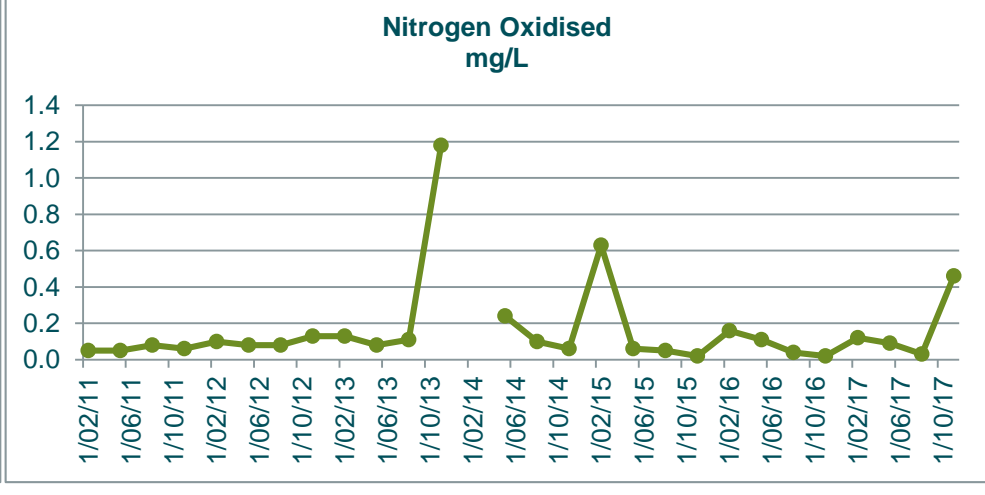
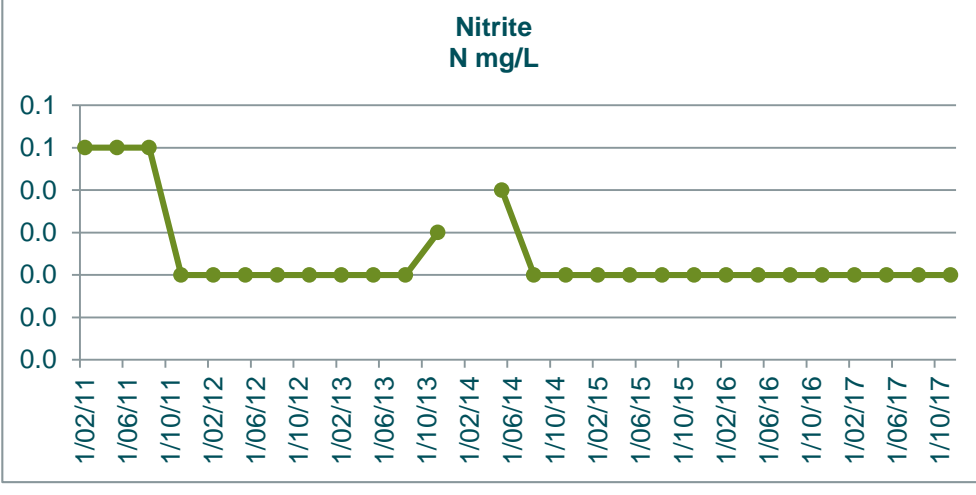
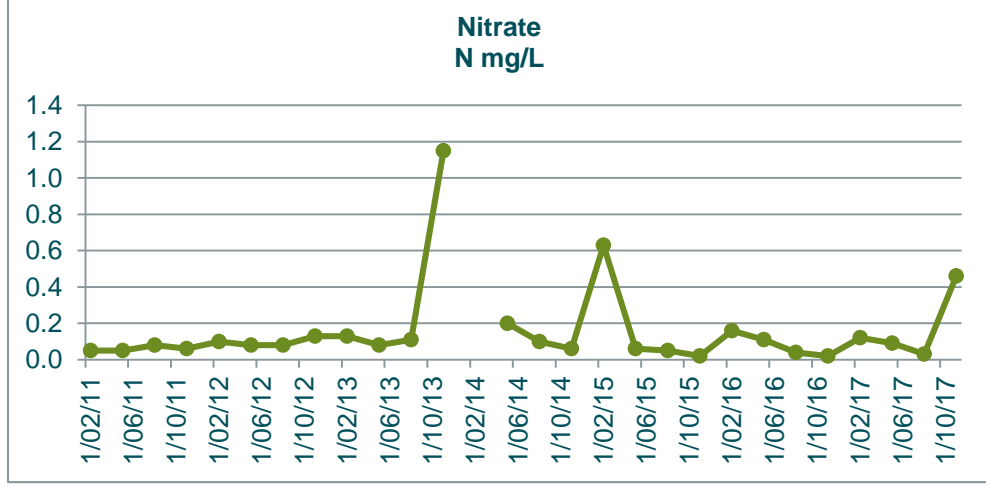
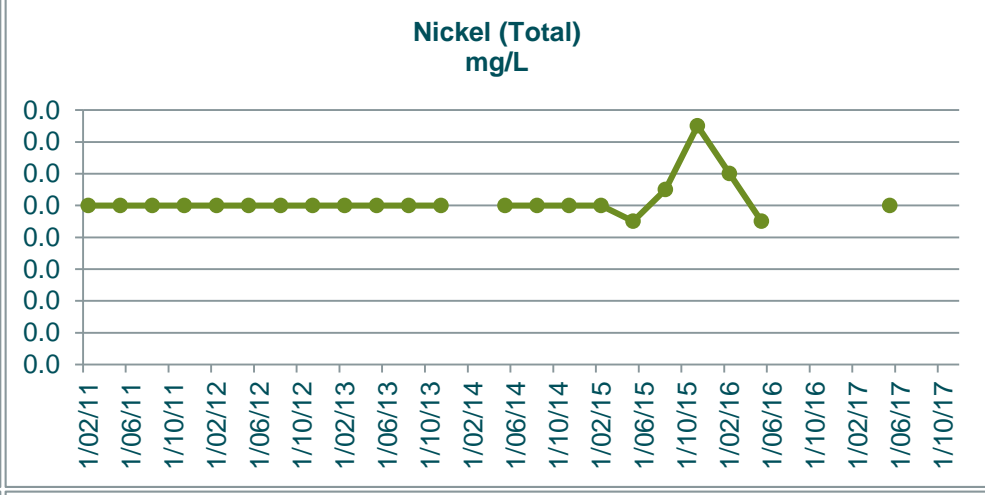
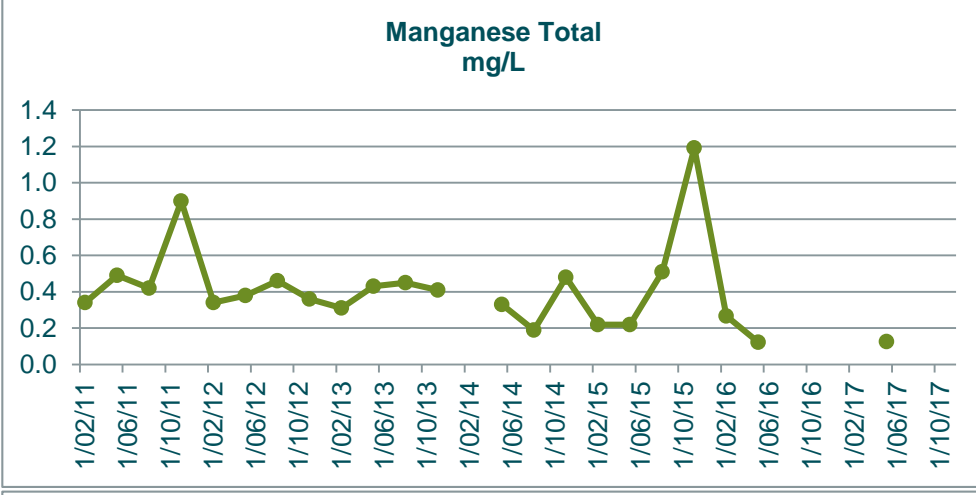
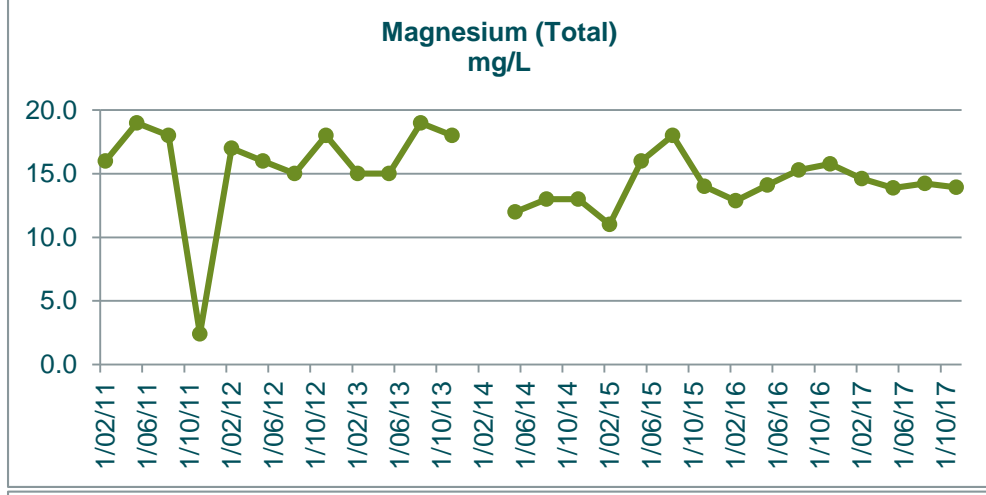
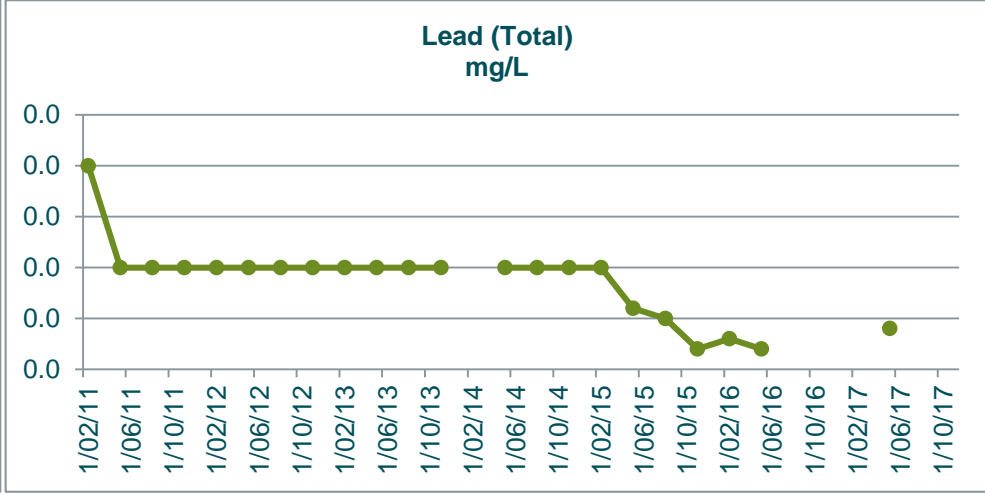
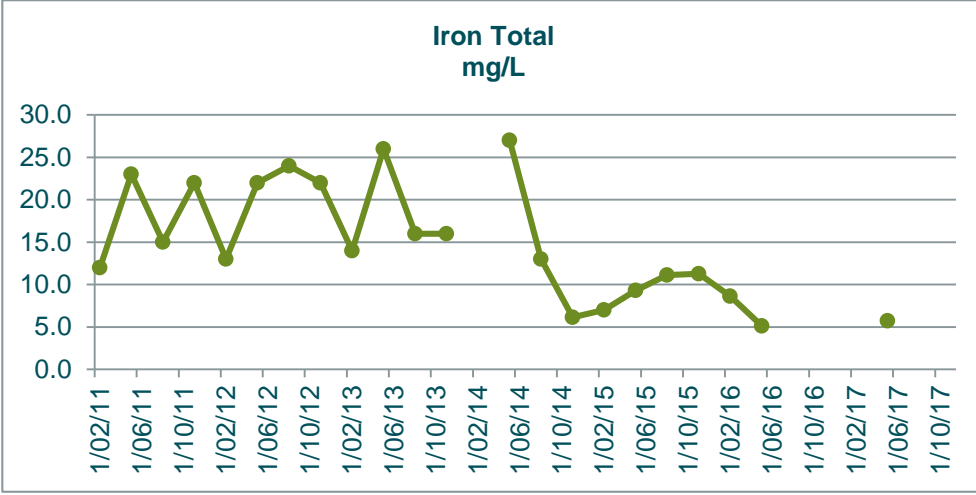
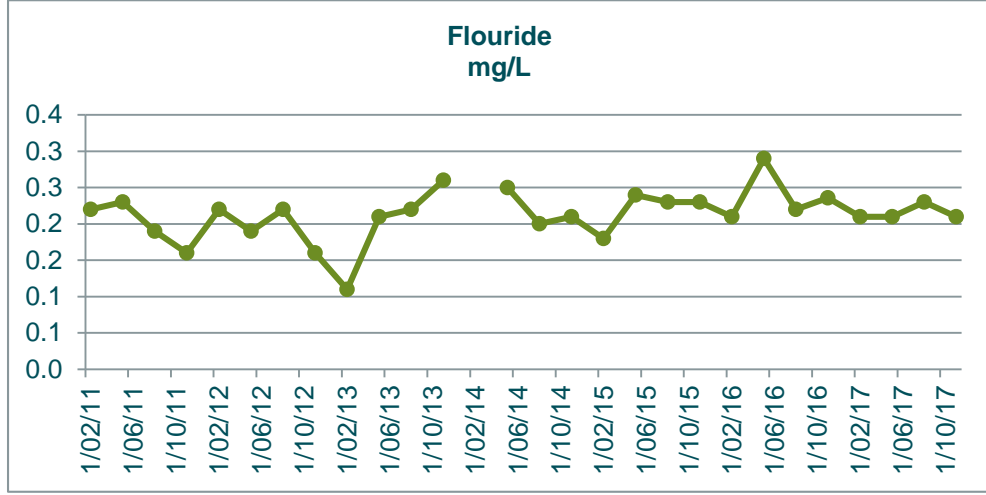
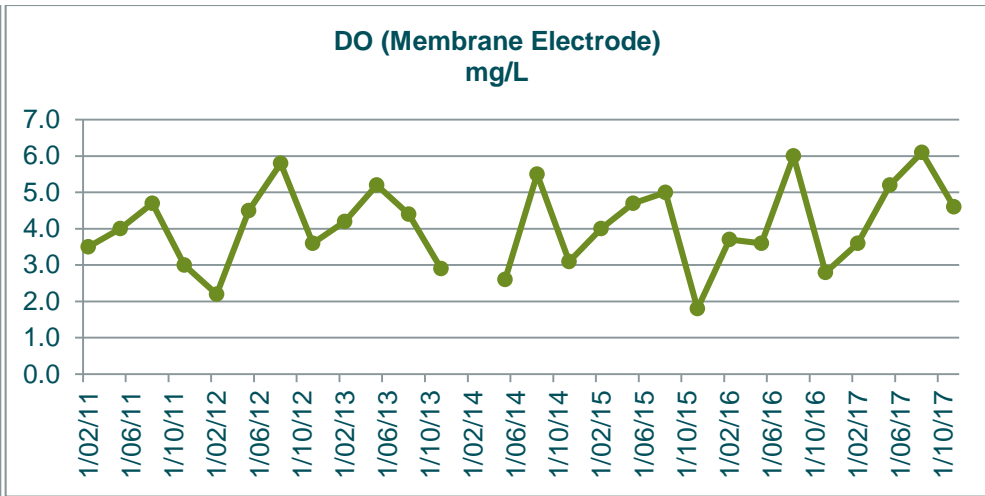
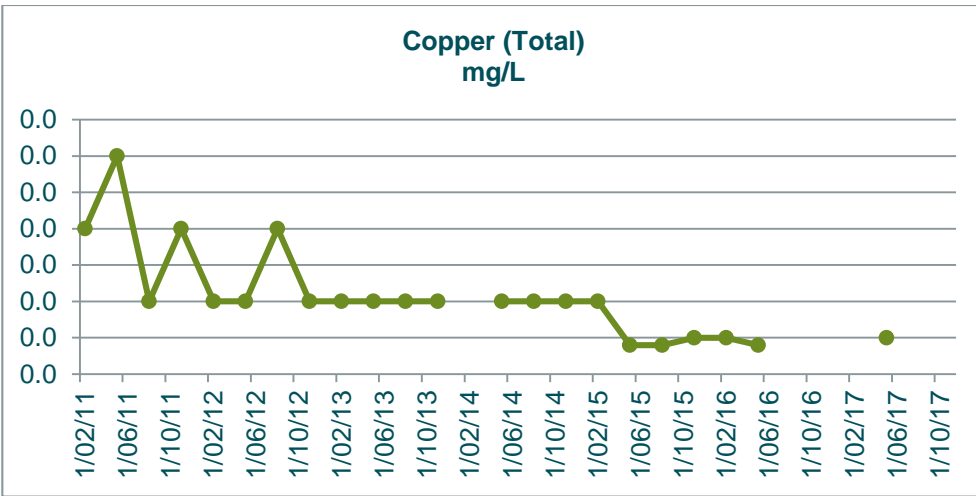
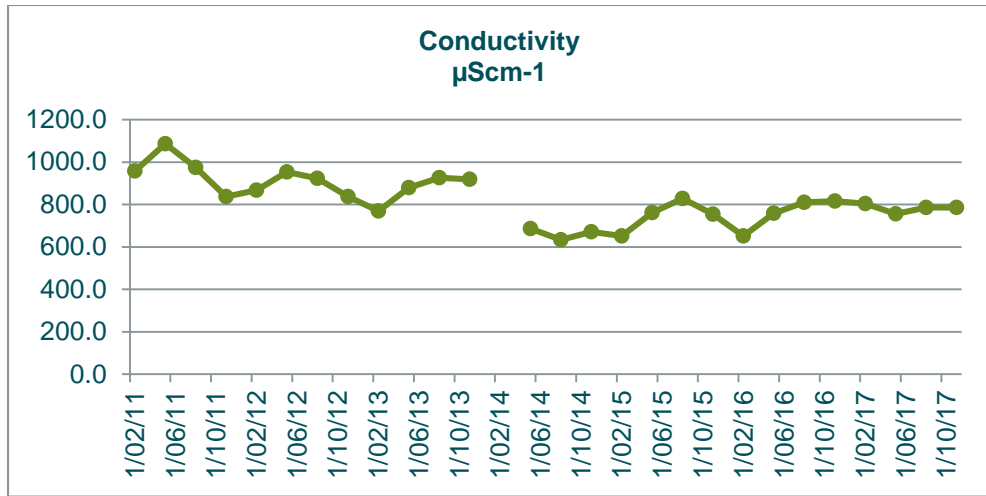


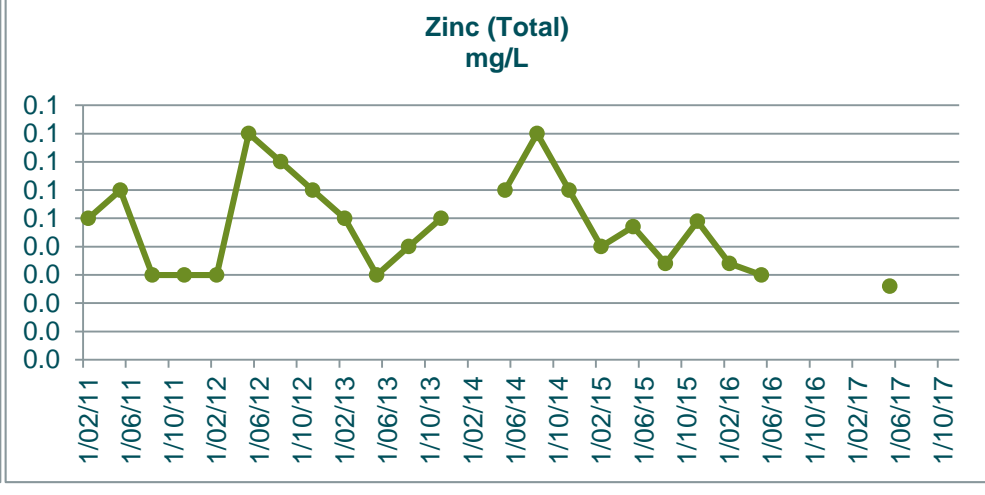
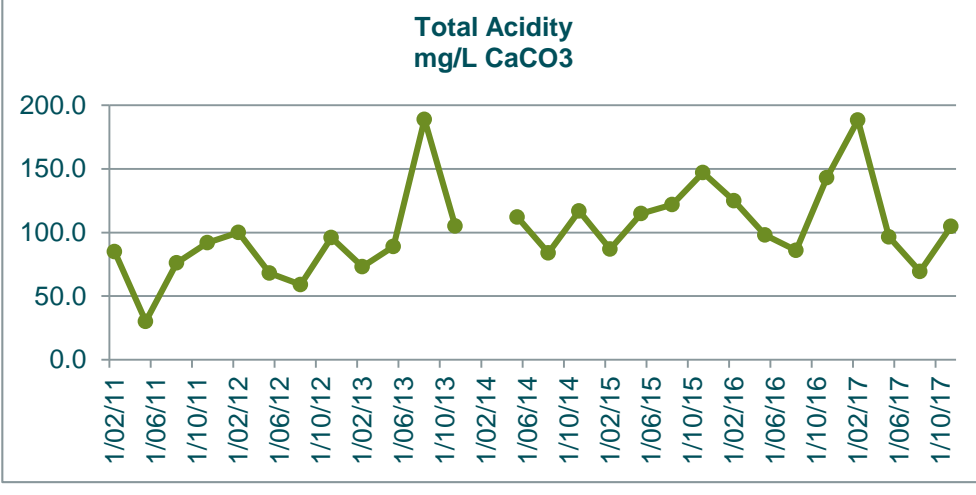
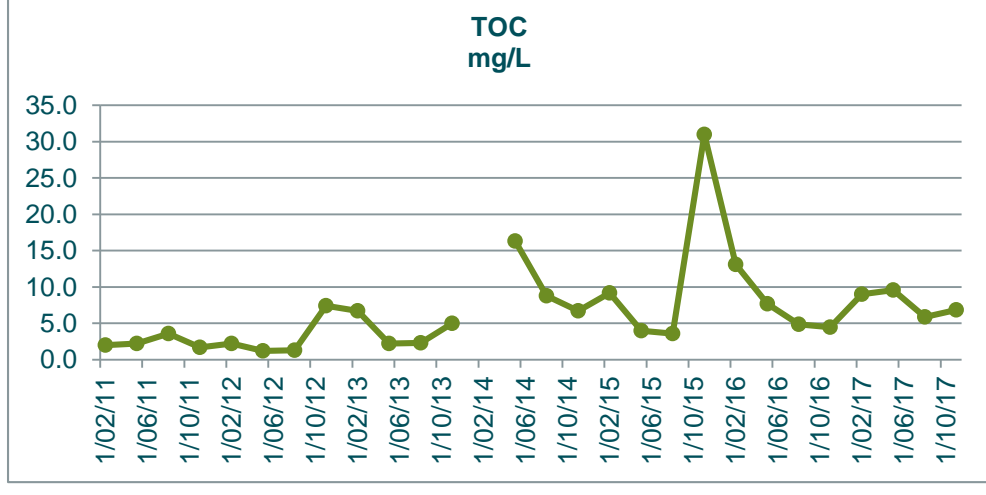
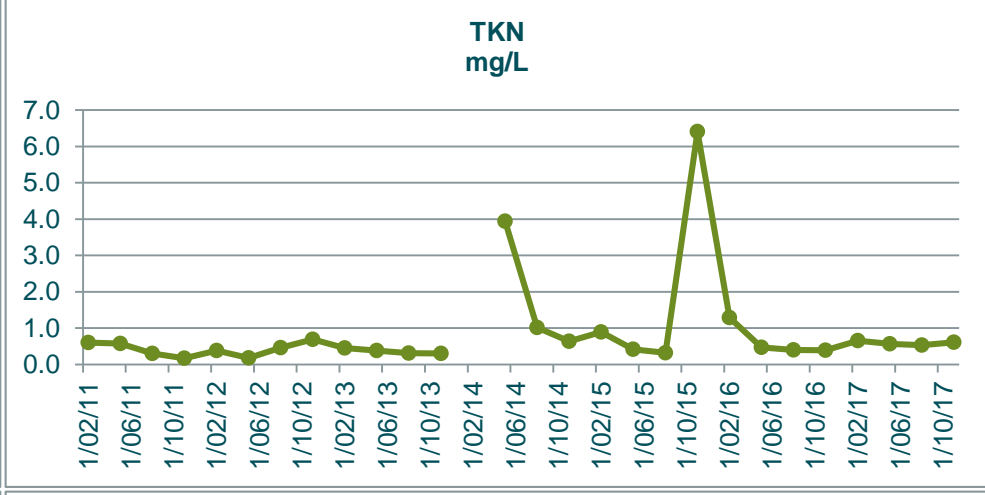
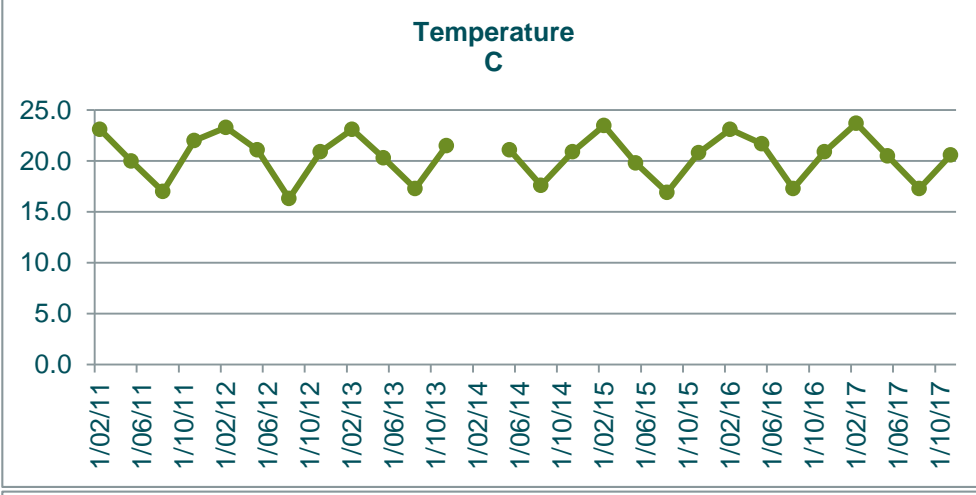
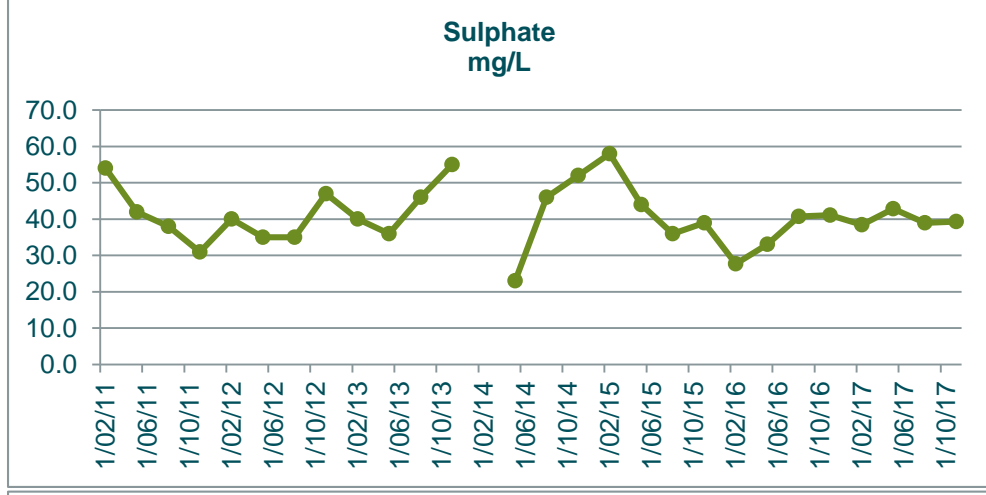
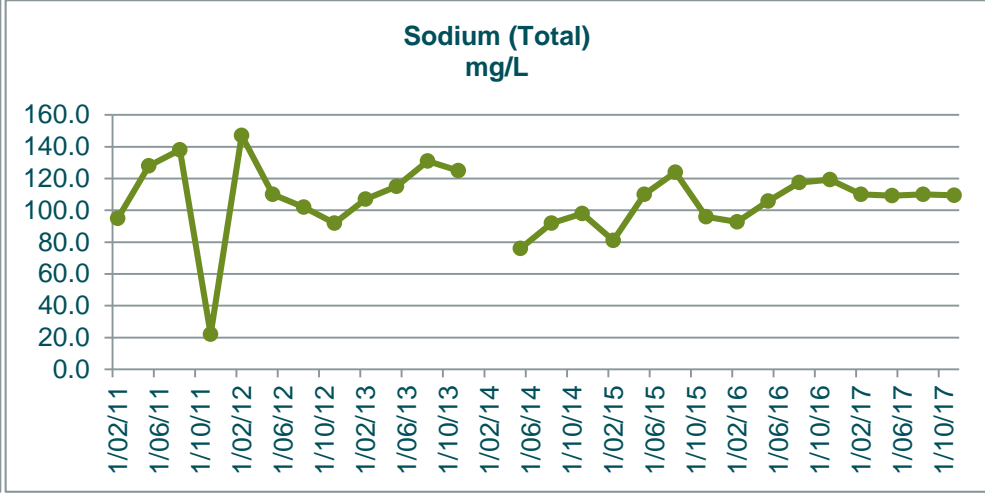
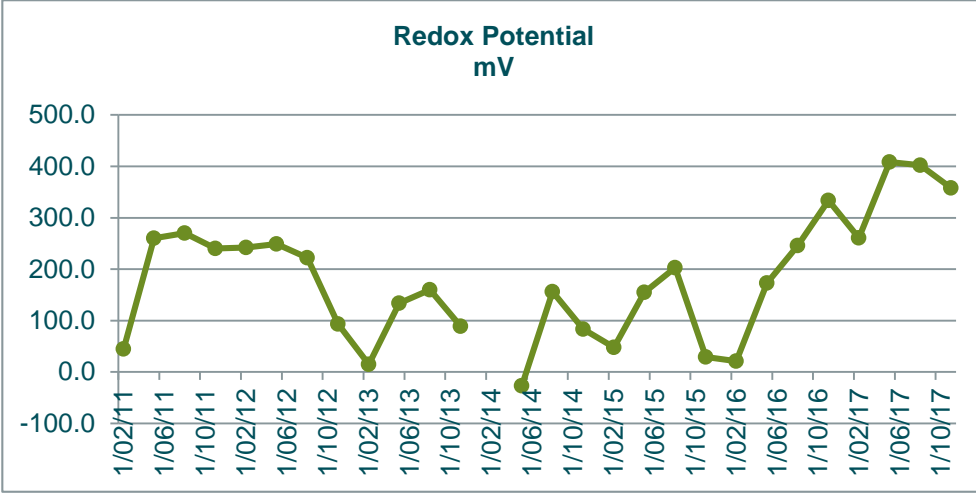
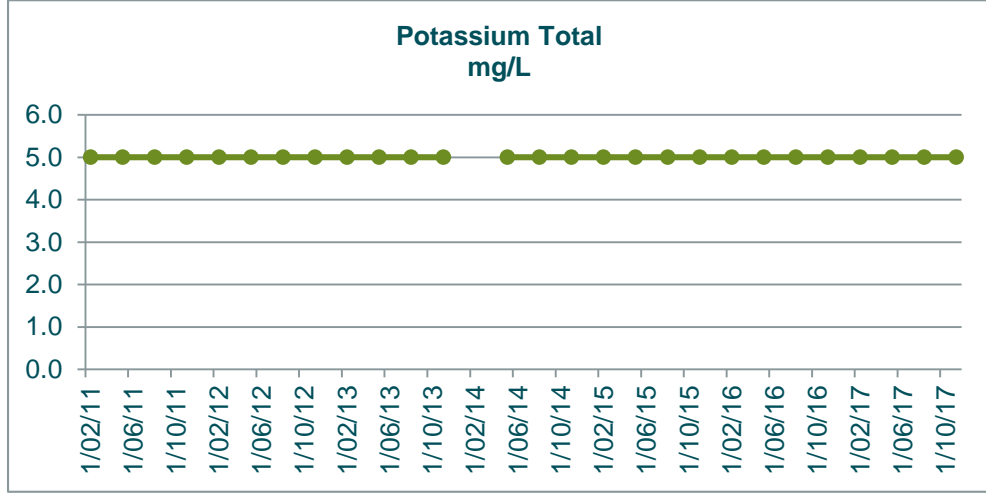
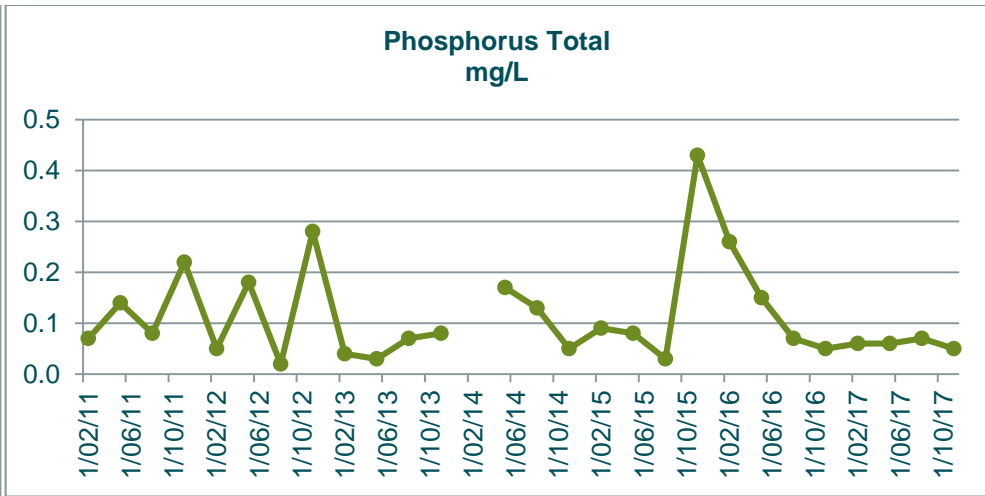
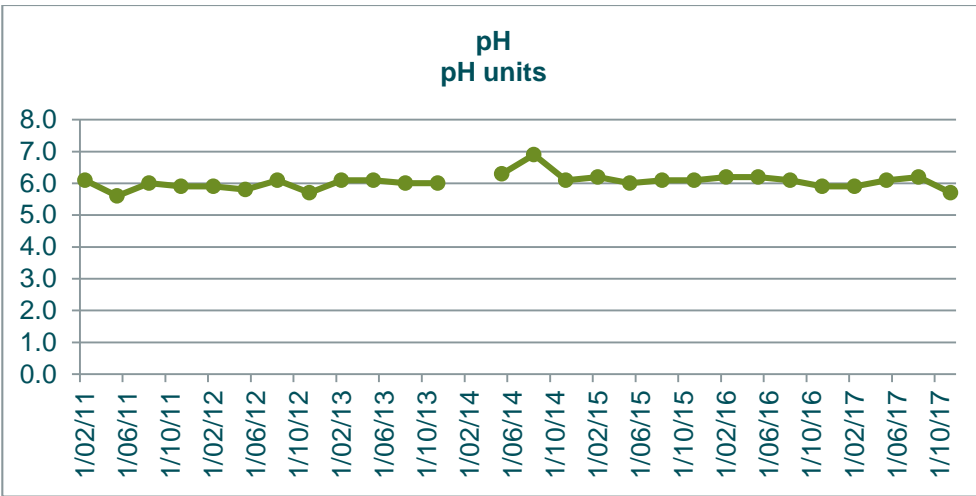
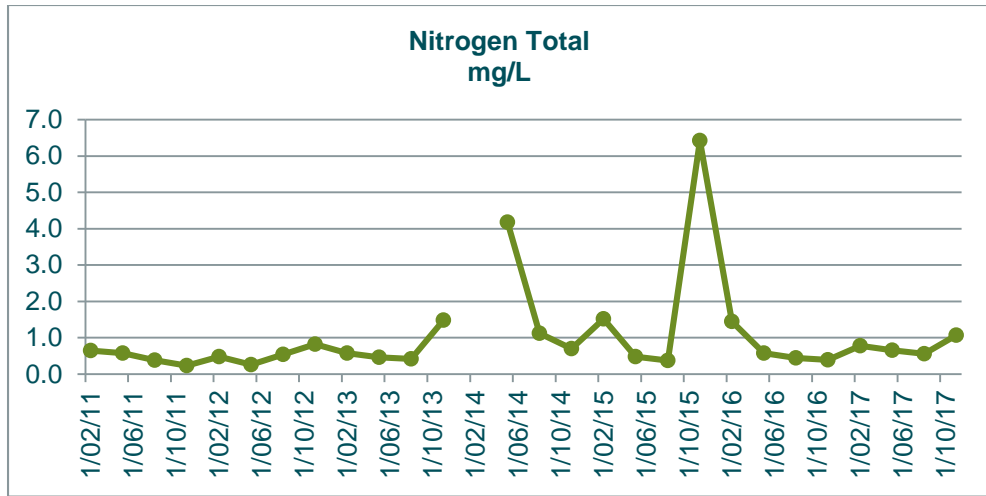




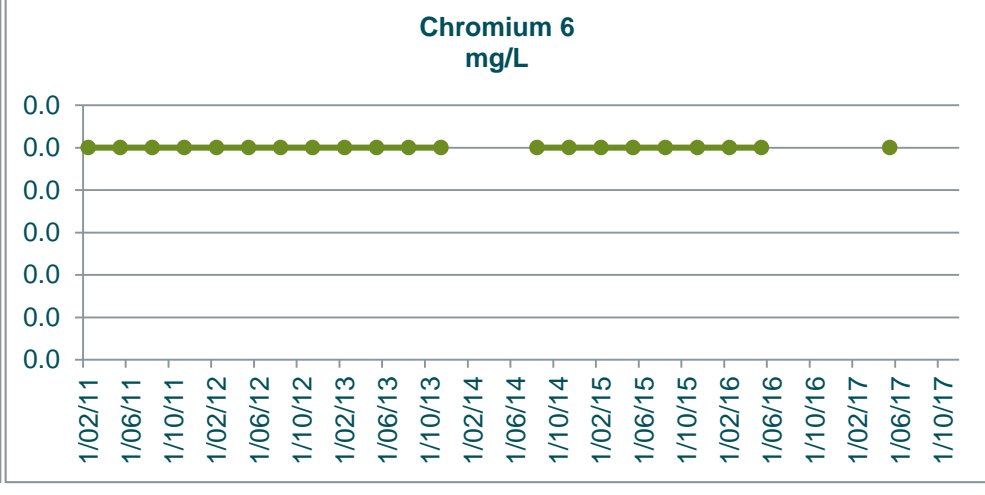
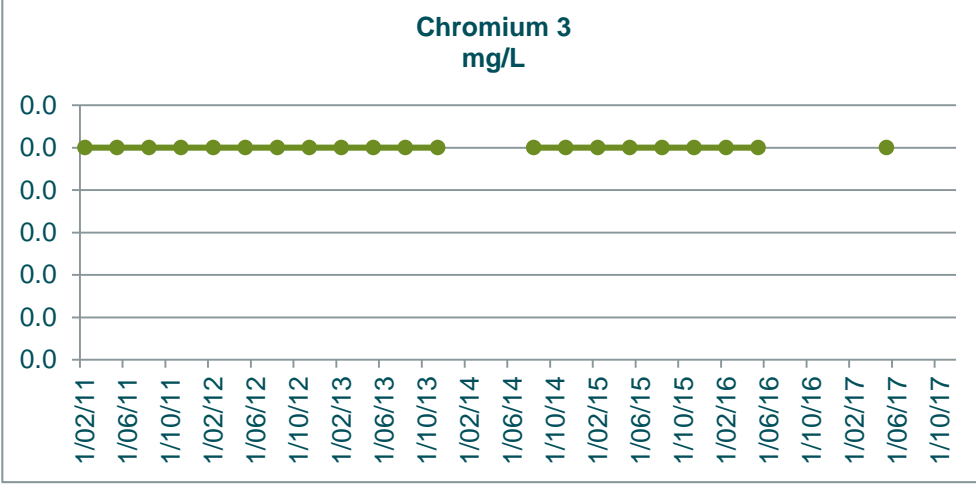
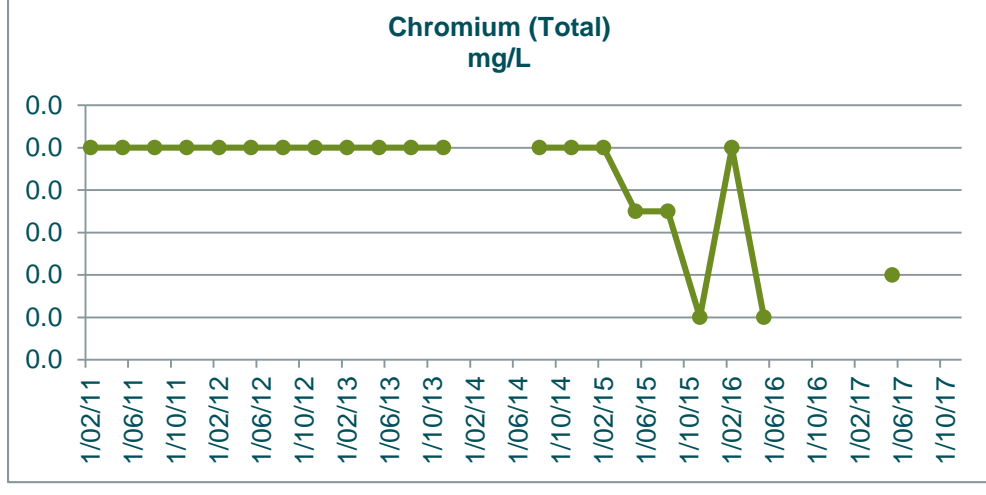
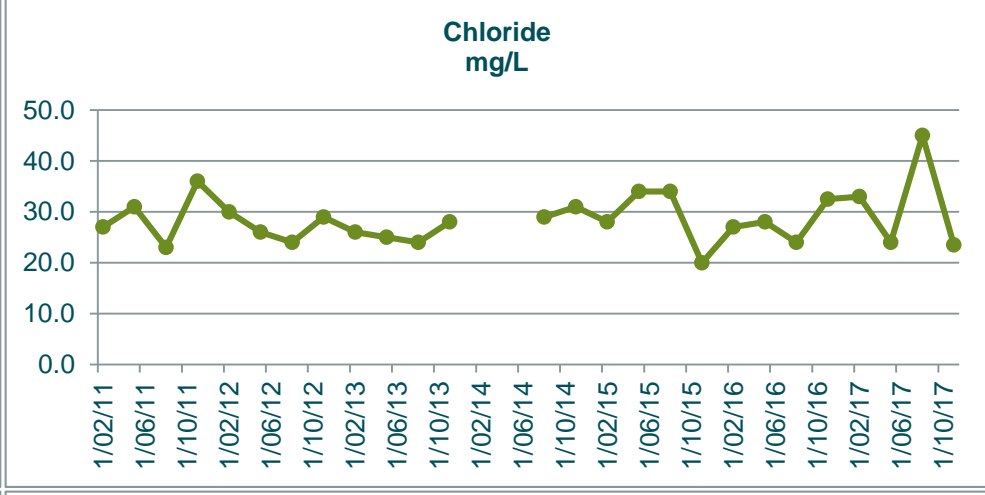
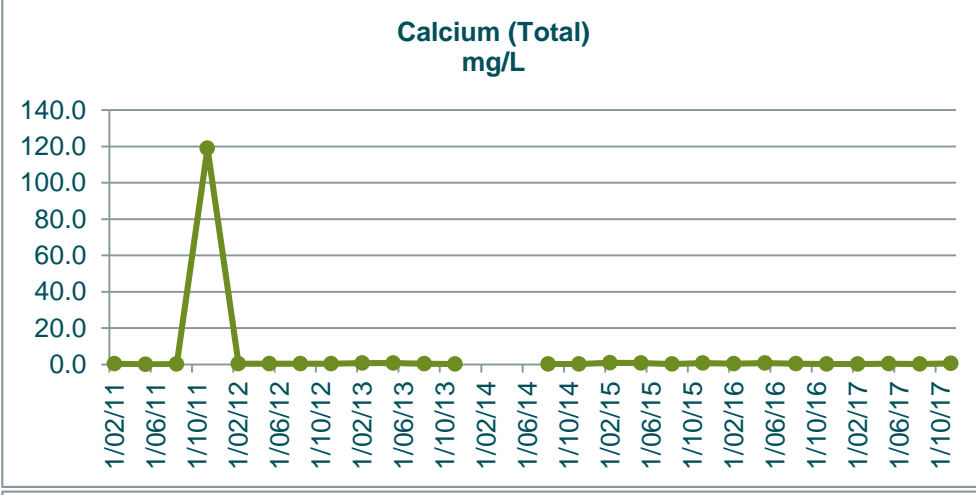
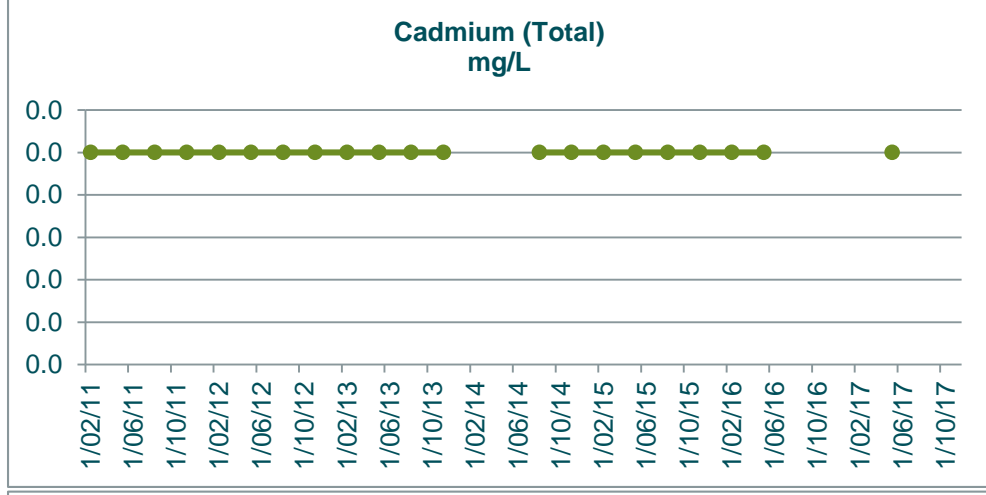
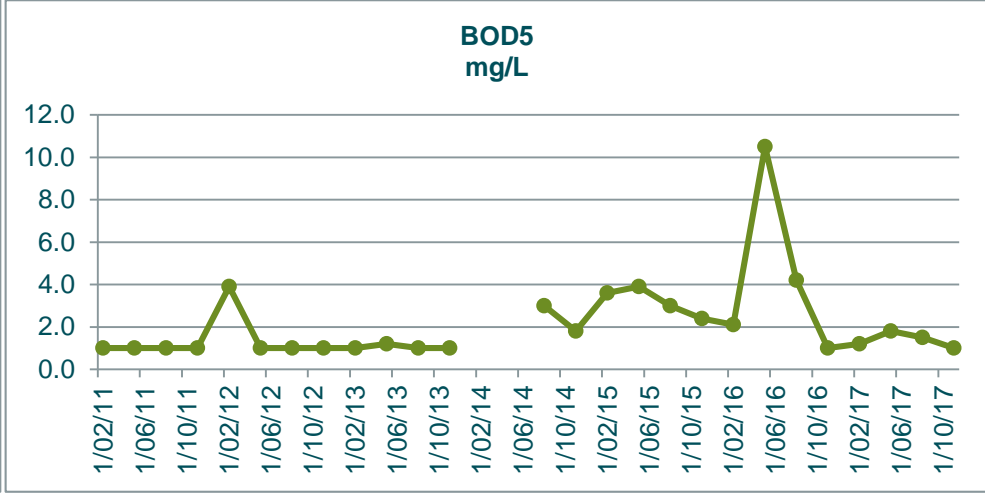
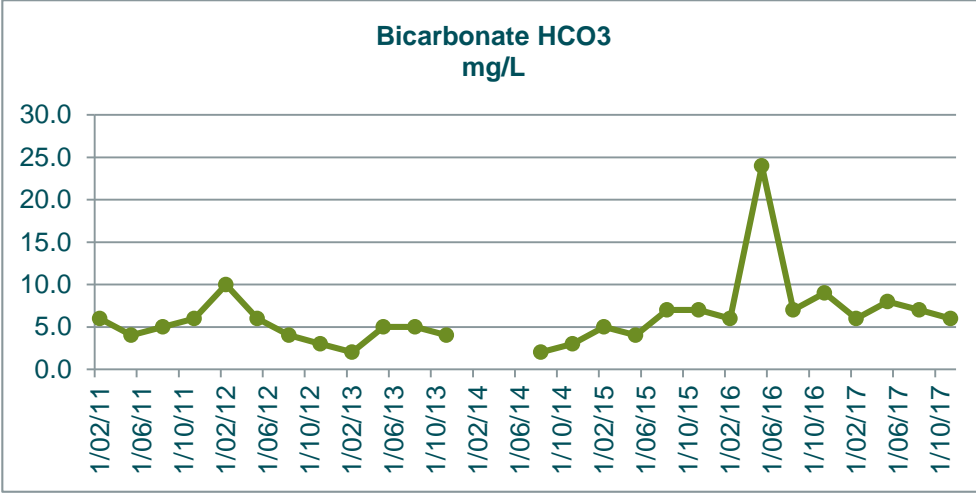
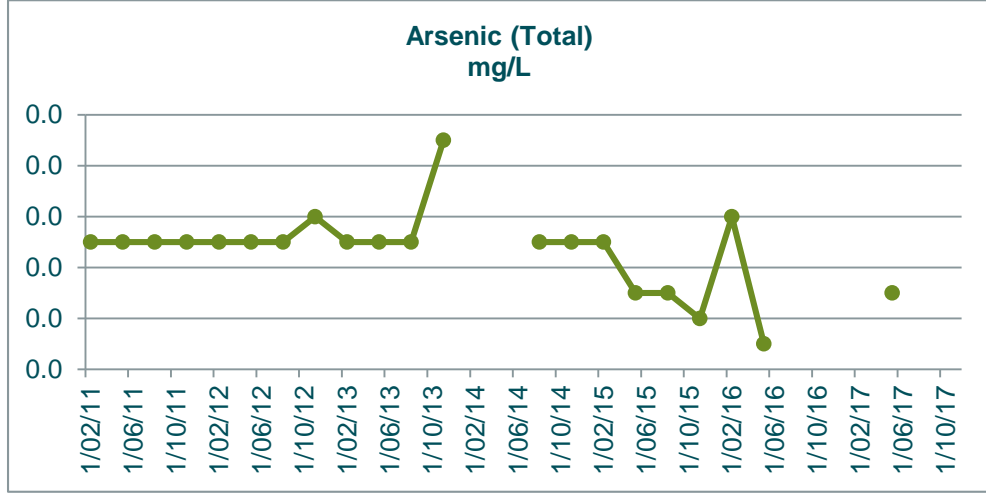
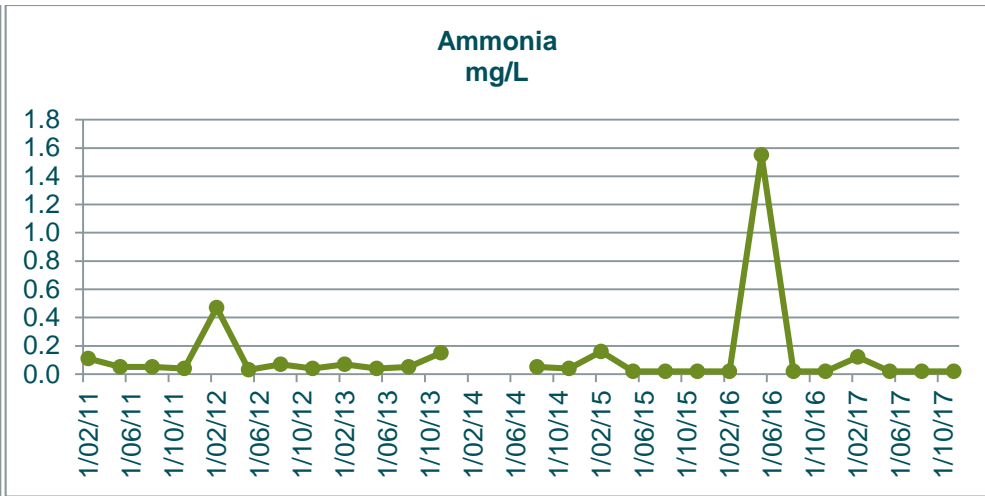
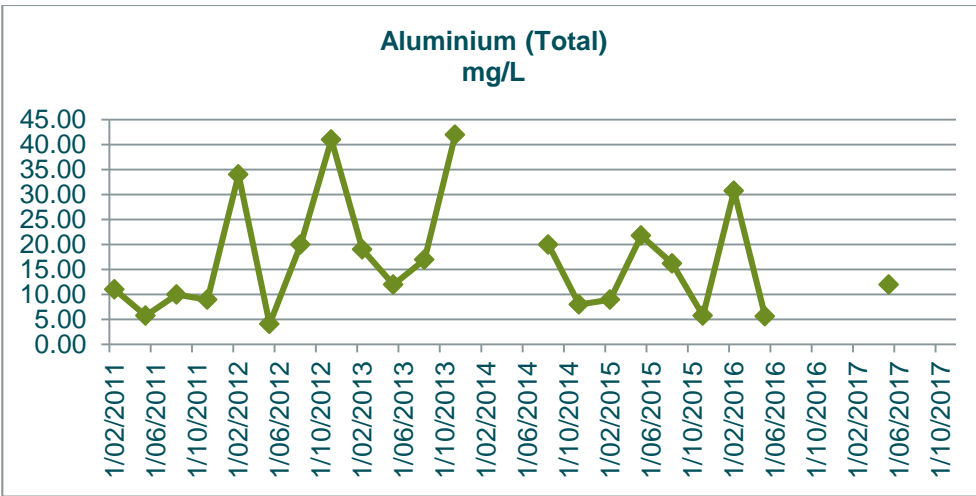
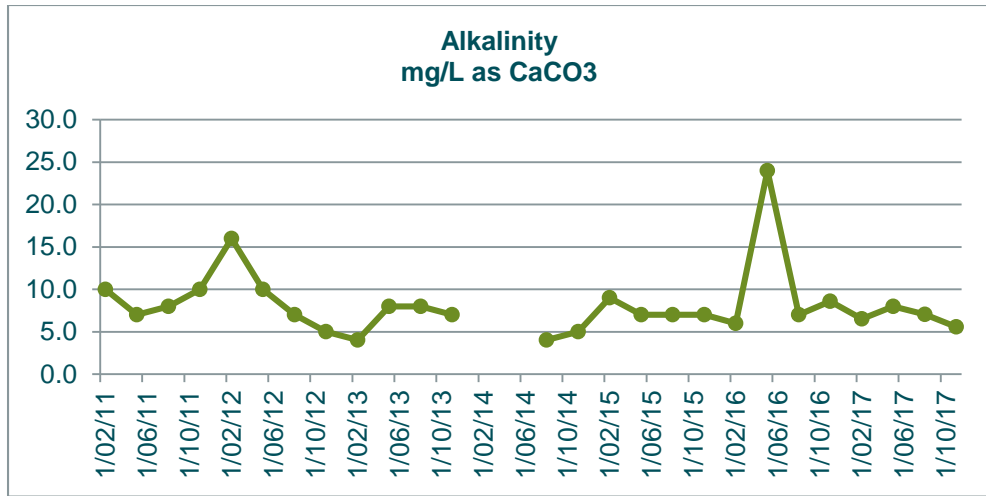
GW15	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L		
1/02/11	79.0	6.7	0.2	0.0	48.0	1.2	0.0	24.0	270.0	0.0	0.0	0.0	958.0	0.0	3.5	0.2	12.0	0.0	16.0	0.3	0.0	0.1	0.1	0.1	0.7	6.1		0.1	5.0	45.0	95.0	54.0	23.1	0.6	2.0	85.0	0.1		
11/05/11	86.0	11.0	0.1	0.0	52.0	2.4	0.0	24.0	258.0	0.0	0.0	0.0	1086.0	0.0	4.0	0.2	23.0	0.0	19.0	0.5	0.0	0.1	0.1	0.1	0.6	5.6		0.1	5.0	260.0	128.0	42.0	20.0	0.6	2.2	30.0	0.1		
10/08/11	77.0	5.4	0.1	0.0	47.0	2.4	0.0	21.0	22.5	0.0	0.0	0.0	975.0	0.0	4.7	0.2	15.0	0.0	18.0	0.4	0.0	0.1	0.1	0.1	0.4	6.0		0.1	5.0	270.0	138.0	38.0	17.0	0.3	3.6	76.0	0.0		
9/11/11	69.0	12.0	0.1	0.0	42.0	6.3	0.0	1.1	208.0	0.0	0.0	0.0	837.0	0.0	3.0	0.2	22.0	0.0	2.4	0.9	0.0	0.1	0.0	0.1	0.2	5.9		0.2	5.0	240.0	22.0	31.0	22.0	0.2	1.7	92.0	0.0		
7/02/12	91.0	2.6	0.1	0.0	56.0	1.0	0.0	21.0	187.0	0.0	0.0	0.0	867.0	0.0	2.2	0.2	13.0	0.0	17.0	0.3	0.0	0.1	0.0	0.1	0.5	5.9		0.1	5.0	242.0	147.0	40.0	23.3	0.4	2.2	100.0	0.0		
9/05/12	78.0	3.6	0.0	0.0	48.0	1.0	0.0	20.0	200.0	0.0	0.0	0.0	953.0	0.0	4.5	0.2	22.0	0.0	16.0	0.4	0.0	0.1	0.0	0.1	0.3	5.8		0.2	5.0	249.0	110.0	35.0	21.1	0.2	1.2	68.0	0.1		
7/08/12	79.0	11.0	0.0	0.0	48.0	1.0	0.0	19.0	205.0	0.0	0.0	0.0	923.0	0.0	5.8	0.2	24.0	0.0	15.0	0.5	0.0	0.1	0.0	0.1	0.5	6.1		0.0	5.0	222.0	102.0	35.0	16.3	0.5	1.3	59.0	0.1		
14/11/12	68.0	11.0	0.1	0.0	41.0	1.0	0.0	26.0	178.0	0.0	0.0	0.0	838.0	0.0	3.6	0.2	22.0	0.0	18.0	0.4	0.0	0.1	0.0	0.1	0.8	5.7		0.3	5.0	93.0	92.0	47.0	20.9	0.7	7.4	96.0	0.1		
14/02/13	86.0	5.3	0.1	0.0	52.0	1.0	0.0	21.0	150.0	0.0	0.0	0.0	769.0	0.0	4.2	0.1	14.0	0.0	15.0	0.3	0.0	0.1	0.0	0.1	0.6	6.1		0.0	5.0	15.0	107.0	40.0	23.1	0.5	6.7	73.0	0.1		
15/05/13	83.0	5.8	0.0	0.0	51.0	1.0	0.0	21.0	196.0	0.0	0.0	0.0	880.0	0.0	5.2	0.2	26.0	0.0	15.0	0.4	0.0	0.1	0.0	0.1	0.5	6.1		0.0	5.0	134.0	115.0	36.0	20.3	0.4	2.2	89.0	0.0		
7/08/13	83.0	6.3	0.0	0.0	51.0	1.0	0.0	23.0	208.0	0.0	0.0	0.0	926.0	0.0	4.4	0.2	16.0	0.0	19.0	0.5	0.0	0.1	0.0	0.1	0.4	6.0		0.1	5.0	160.0	131.0	46.0	17.3	0.3	2.3	189.0	0.0		
13/11/13	76.0	5.5	0.1	0.0	46.0	1.2	0.0	26.0	185.0	0.0	0.0	0.0	919.0	0.0	2.9	0.3	16.0	0.0	18.0	0.4	0.0	1.2	0.0	1.2	1.5	6.0		0.1	5.0	89.0	125.0	55.0	21.5	0.3	5.0	105.0	0.1		
11/02/14																																							
14/05/14	135.0	3.1	1.7	0.0	82.0	14.0	0.0	20.0	112.0	0.0	0.0	0.0	687.0	0.0	2.6	0.3	27.0	0.0	12.0	0.3	0.0	0.2	0.0	0.2	4.2	6.3		0.2	5.0	-27.0	76.0	23.0	21.1	3.9	16.3	112.0	0.1		
13/08/14	61.0	4.9	0.0	0.0	37.0	1.8	0.0	18.0	125.0	0.0	0.0	0.0	634.0	0.0	5.5	0.2	13.0	0.0	13.0	0.2	0.0	0.1	0.0	0.1	1.1	6.9		0.1	5.0	156.0	92.0	46.0	17.6	1.0	8.8	84.0	0.1		
11/11/14	70.0	2.3	0.1	0.0	43.0	2.1	0.0	17.0	137.0	0.0	0.0	0.0	671.0	0.0	3.1	0.2	6.1	0.0	13.0	0.5	0.0	0.1	0.0	0.1	0.7	6.1		0.1	5.0	83.0	98.0	52.0	20.9	0.6	6.7	117.0	0.1		
10/02/15	69.0	2.6	0.0	0.0	42.0	1.5	0.0	17.0	120.0	0.0	0.0	0.0	651.0	0.0	4.0	0.2	7.0	0.0	11.0	0.2	0.0	0.6	0.0	0.6	1.5	6.2		0.1	5.0	48.0	81.0	58.0	23.5	0.9	9.2	87.0	0.0		
12/05/15	84.0	6.9	0.0	0.0	51.0	1.0	0.0	21.0	160.0	0.0	0.0	0.0	762.0	0.0	4.7	0.2	9.3	0.0	16.0	0.2	0.0	0.1	0.0	0.1	0.5	6.0		0.1	5.0	155.0	110.0	44.0	19.8	0.4	4.0	115.0	0.0		
12/08/15	91.0	3.9	0.0	0.0	91.0	1.0	0.0	25.0	178.0	0.0	0.0	0.0	829.0	0.0	5.0	0.2	11.1	0.0	18.0	0.5	0.0	0.1	0.0	0.1	0.4	6.1		0.0	5.0	203.0	124.0	36.0	16.9	0.3	3.6	122.0	0.0		
11/11/15	106.0	1.1	2.6	0.0	106.0	18.0	0.0	19.0	142.0	0.0	0.0	0.0	754.0	0.0	1.8	0.2	11.3	0.0	14.0	1.2	0.0	0.0	0.0	0.0	6.4	6.1		0.4	5.0	29.0	96.0	39.0	20.8	6.4	31.0	147.0	0.0		
9/02/16	103.0	2.9	0.2	0.0	103.0	3.3	0.0	17.7	118.0	0.0	0.0	0.0	651.0	0.0	3.7	0.2	8.6	0.0	12.9	0.3	0.0	0.2	0.0	0.2	1.5	6.2		0.3	5.0	21.0	92.7	27.7	23.1	1.3	13.1	125.0	0.0		
10/05/16	98.0	2.1	0.0	0.0	98.0	1.8	0.0	19.3	145.0	0.0	0.0	0.0	759.0	0.0	3.6	0.3	5.1	0.0	14.1	0.1	0.0	0.1	0.0	0.1	0.6	6.2		0.2	5.0	173.0	105.8	33.1	21.7	0.5	7.7	98.0	0.0		
10/08/16	94.4		0.0		94.0	2.7		20.8	168.0				809.7		6.0	0.2			15.3			0.0	0.0	0.0	0.4	6.1		0.1	5.0	246.0	117.5	40.7	17.3	0.4	4.9	85.9			
8/11/16	99.7		0.0		100.0	1.0		21.2	176.0				816.2		2.8	0.2			15.8			0.0	0.0	0.0	0.4	5.9		0.1	5.0	333.5	119.3	41.1	20.9	0.4	4.5	143.1			
8/02/17	105.0		0.1		105.0	1.0		19.4	160.0				804.3		3.6	0.2			14.6			0.1	0.0	0.1	0.8	5.9		0.1	5.0	260.5	110.1	38.5	23.7	0.7	9.0	188.5			
9/05/17	94.2	2.8	0.0	0.0	94.0	1.0	0.0	18.9	155.0	0.0	0.0	0.0	755.4	0.0	5.2	0.2	5.7	0.0	13.9	0.1	0.0	0.1	0.0	0.1	0.7	6.1		0.1	5.0	408.6	109.2	42.9	20.5	0.6	9.6	96.4	0.0		
9/08/17	98.0		0.0		98.0	2.1		19.0	150.0				786.6		6.1	0.2			14.2			0.0	0.0	0.0	0.6	6.2		0.1	5.0	402.4	110.1	38.9	17.3	0.5	5.9	69.3			
8/11/17	95.7		0.0		96.0	1.5		18.8	22.5				786.2		4.6	0.2			13.9			0.5	0.0	0.5	1.1	5.7		0.1	5.0	357.7	109.3	39.3	20.6	0.6	6.8	104.8			
2017 Min	94.2	2.8	0.0	0.0	94.0	1.0	0.0	18.8	22.5	0.0	0.0	0.0	755.4	0.0	3.6	0.2	5.7	0.0	13.9	0.1	0.0	0.0	0.0	0.0	0.6	5.7		0.1	5.0	260.5	109.2	38.5	17.3	0.5	5.9	69.3	0.0		
2017 Max	105.0	2.8	0.1	0.0	105.0	2.1	0.0	19.4	160.0	0.0	0.0	0.0	804.3	0.0	6.1	0.2	5.7	0.0	14.6	0.1	0.0	0.5	0.0	0.5	1.1	6.2		0.1	5.0	408.6	110.1	42.9	23.7	0.7	9.6	188.5	0.0		
2017 Mean	98.2	2.8	0.0	0.0	98.3	1.4	0.0	19.0	121.9	0.0	0.0	0.0	783.1	0.0	4.9	0.2	5.7	0.0	14.2	0.1	0.0	0.2	0.0	0.2	0.8	6.0		0.1	5.0	357.3	109.7	39.9	20.5	0.6	7.8	114.8	0.0		

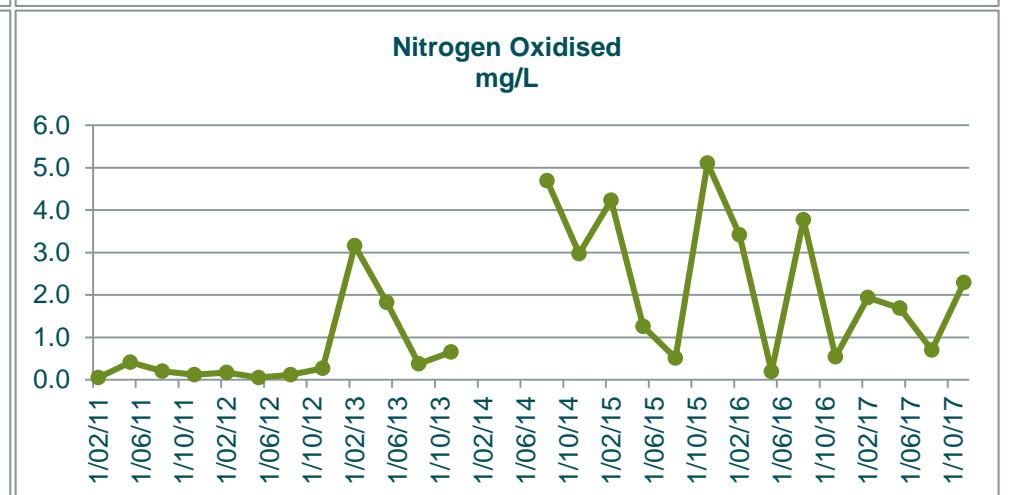
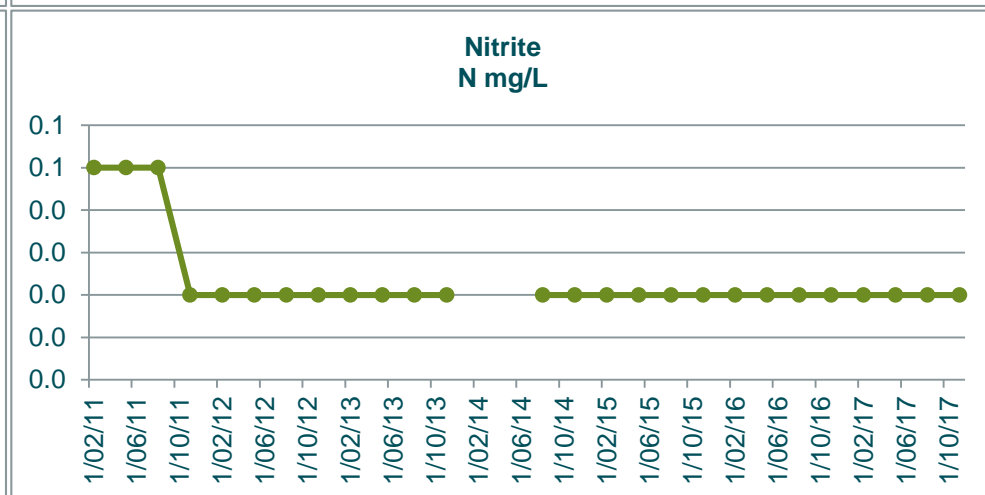
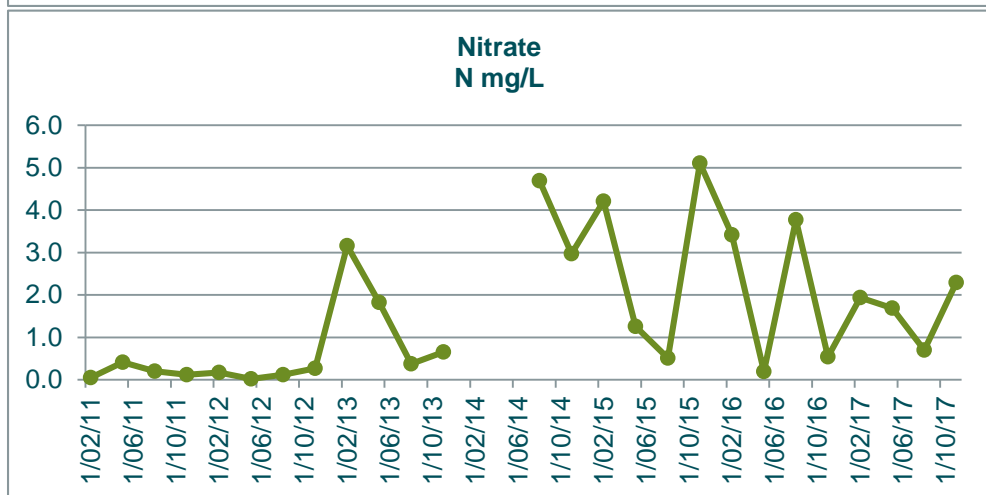
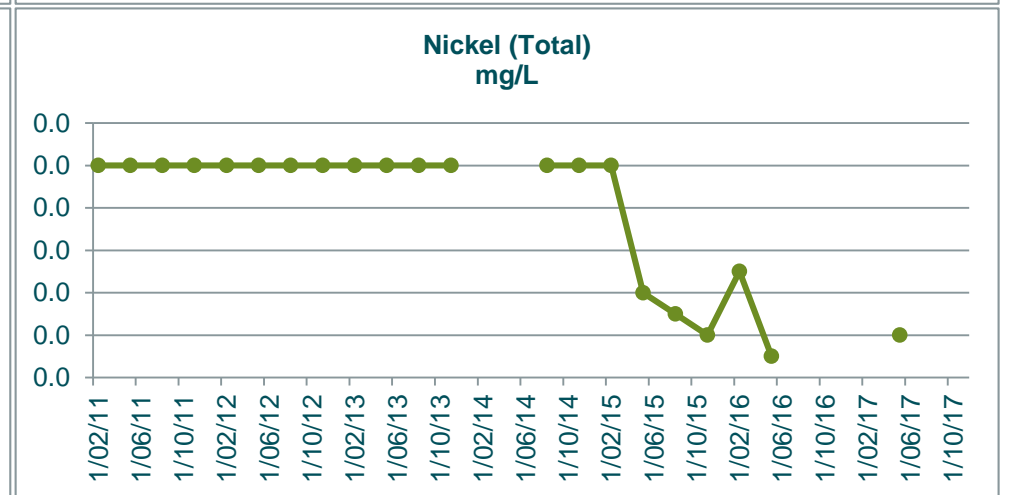
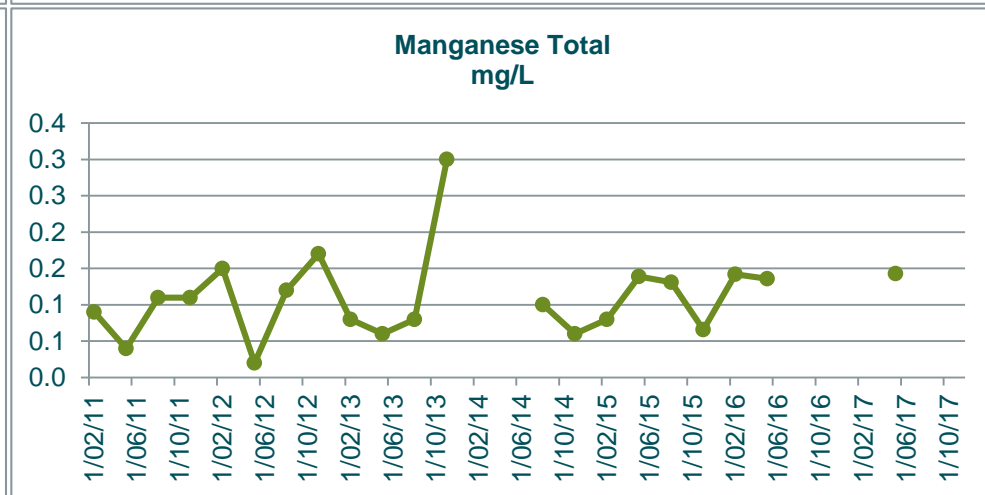
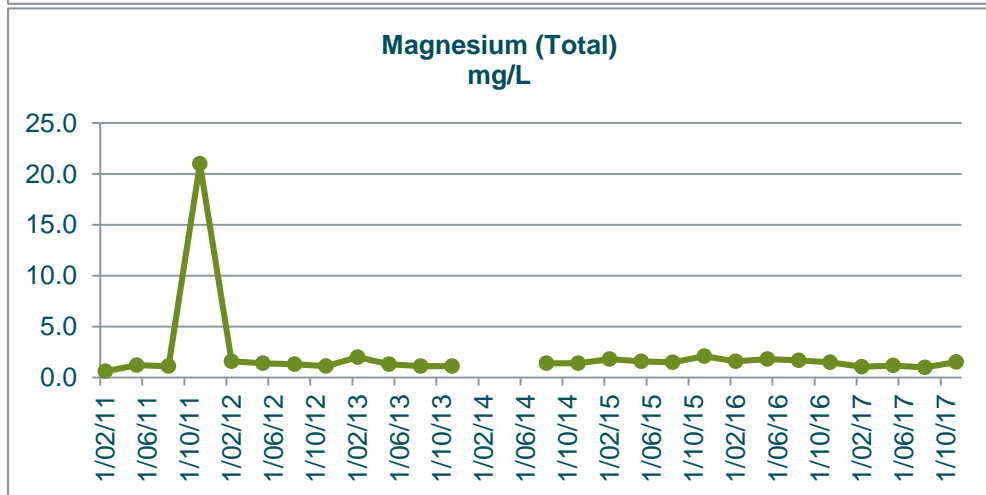
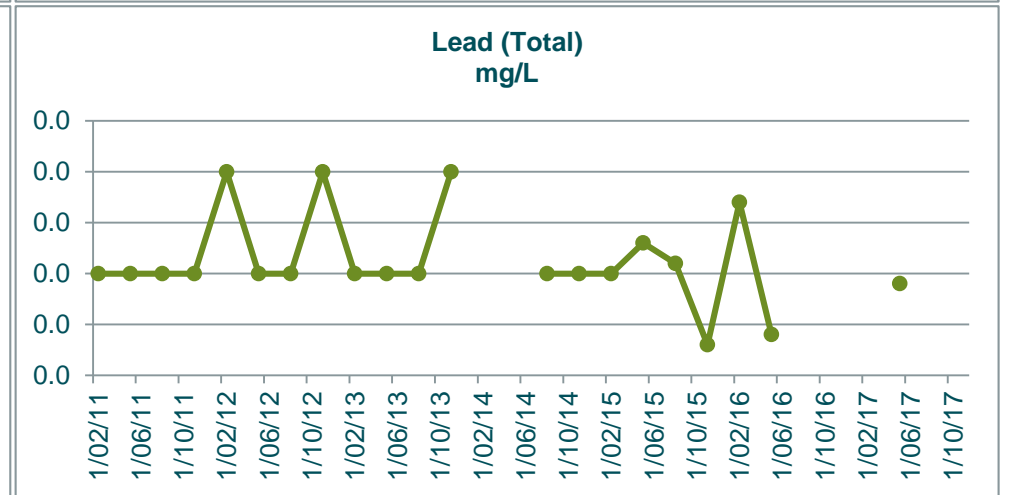
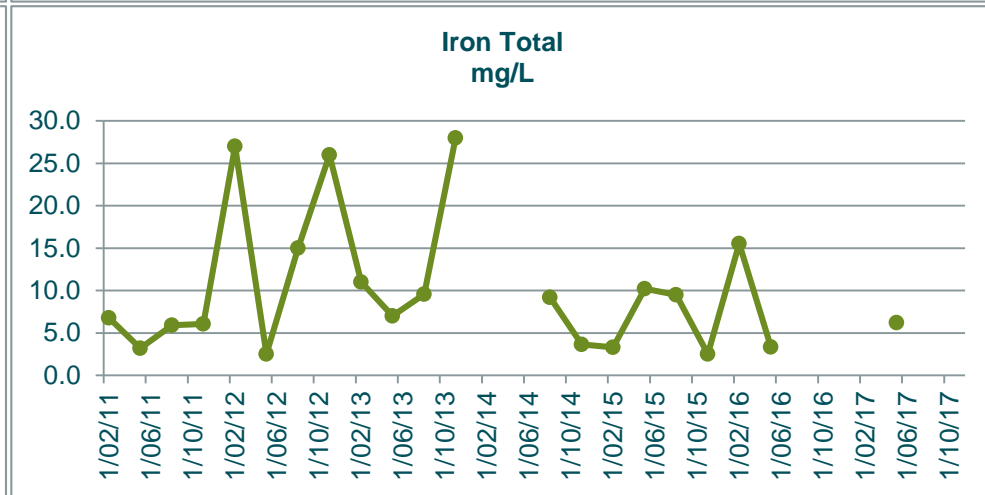
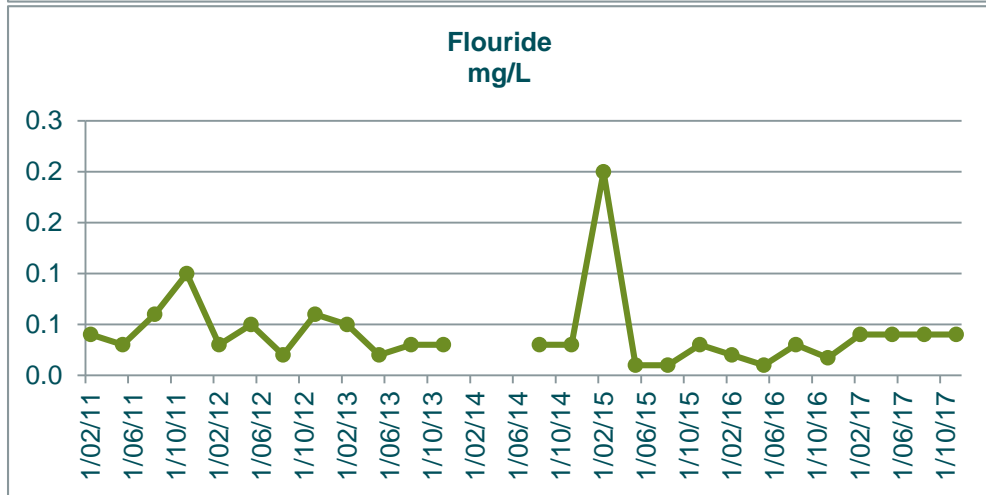
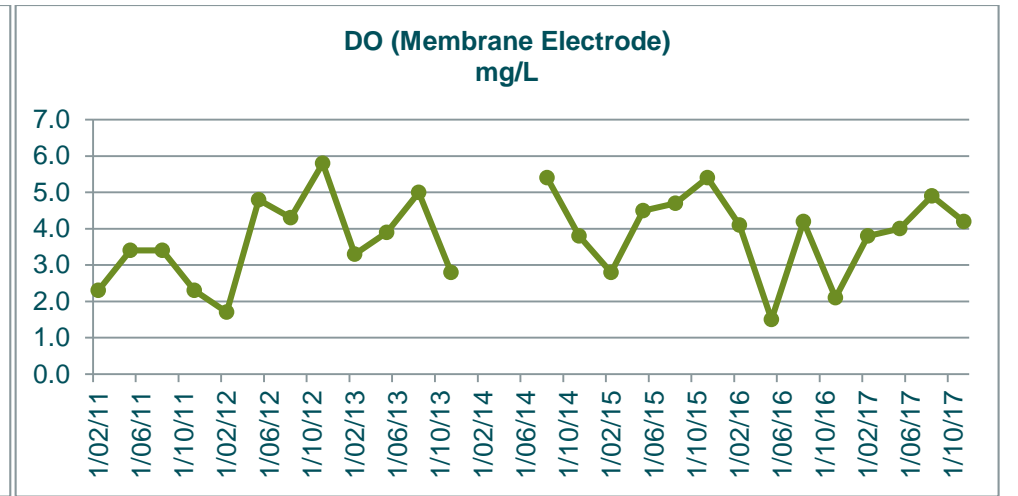
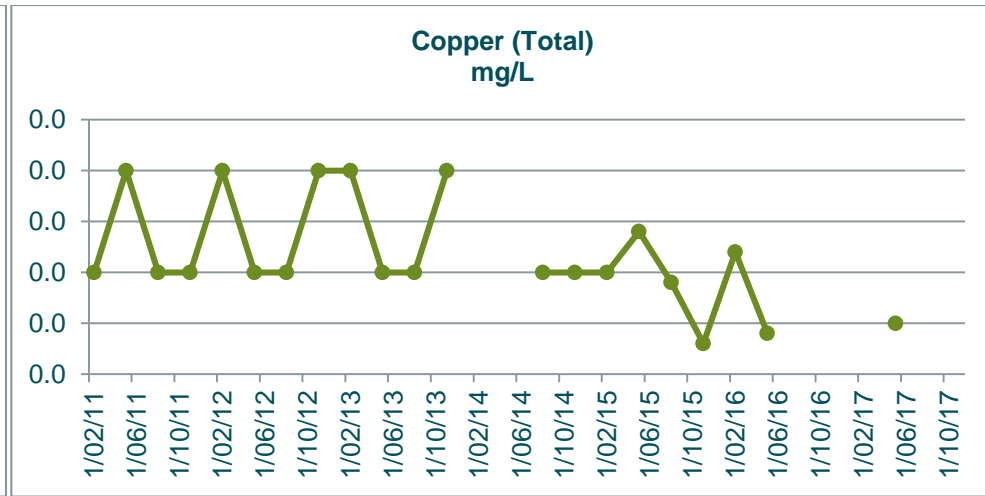
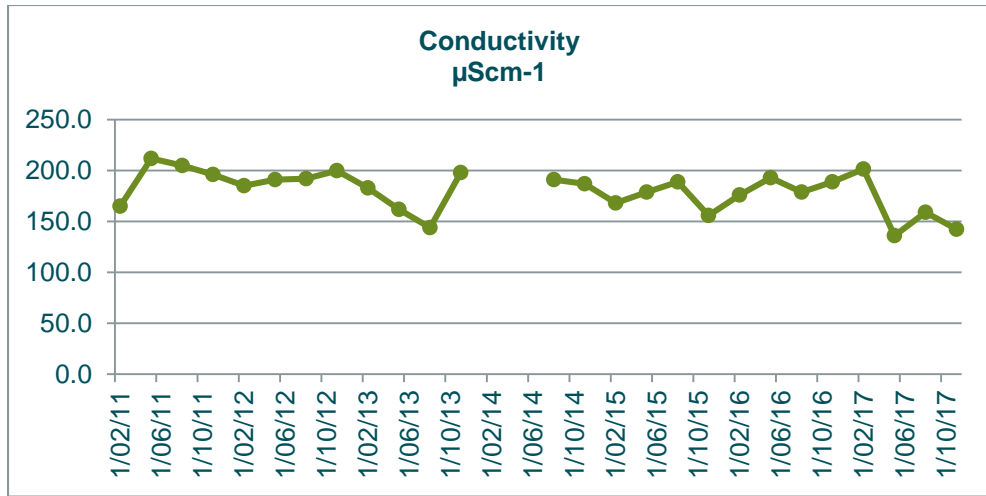


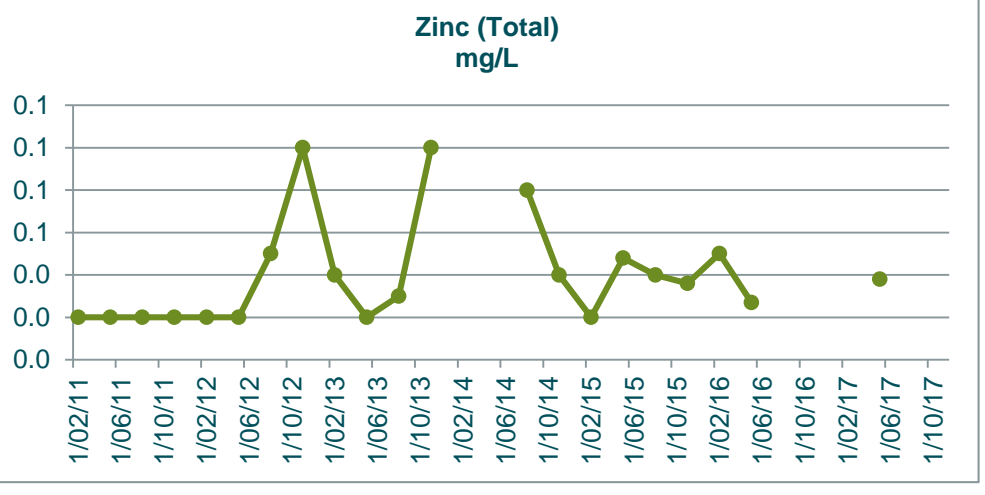
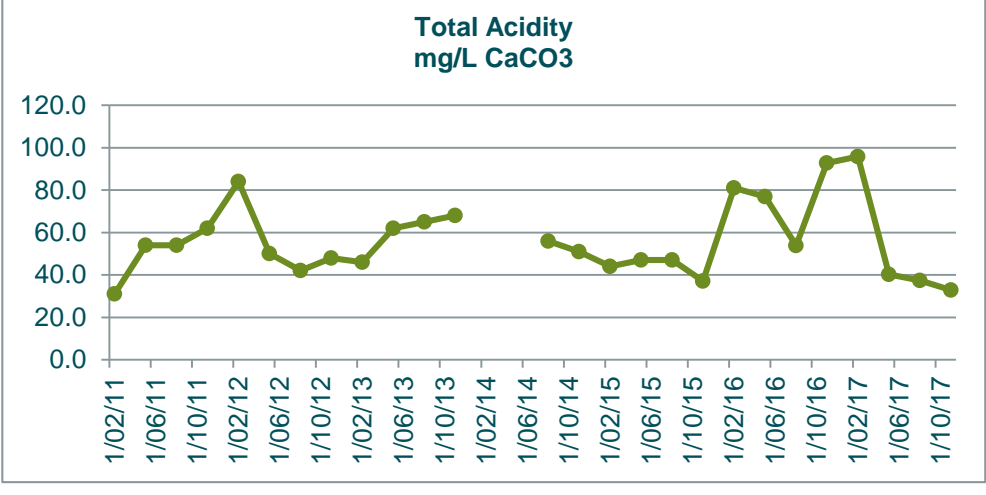
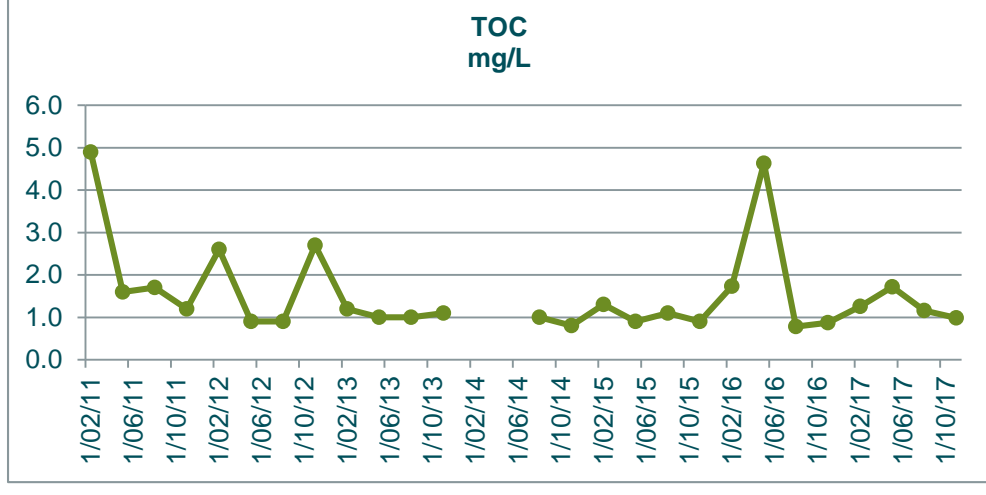
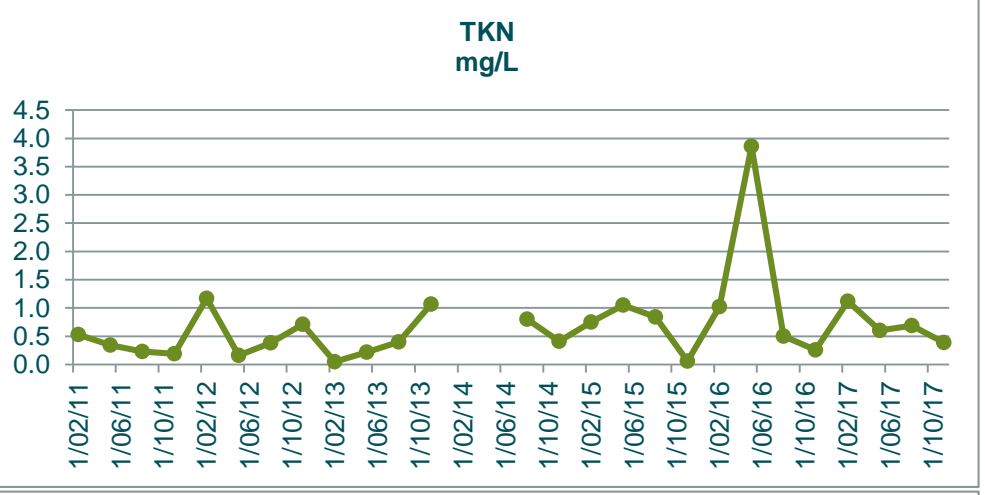
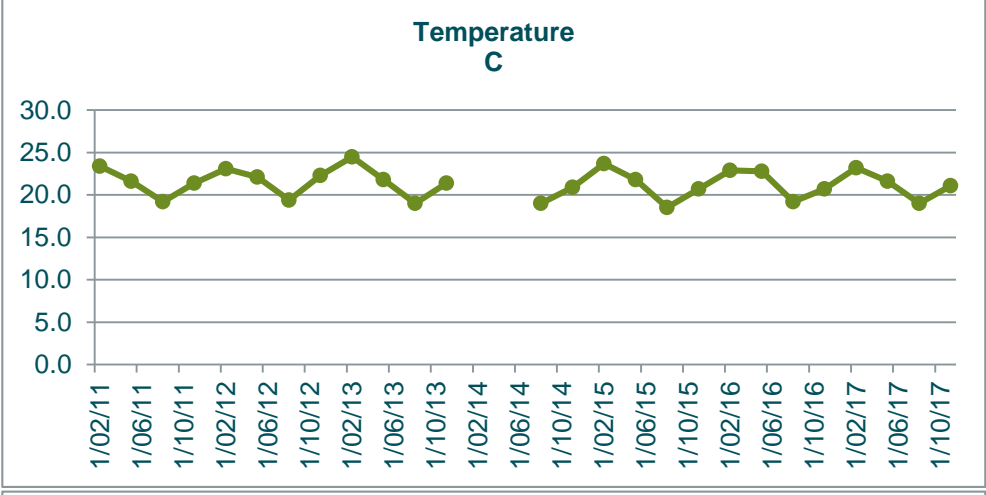
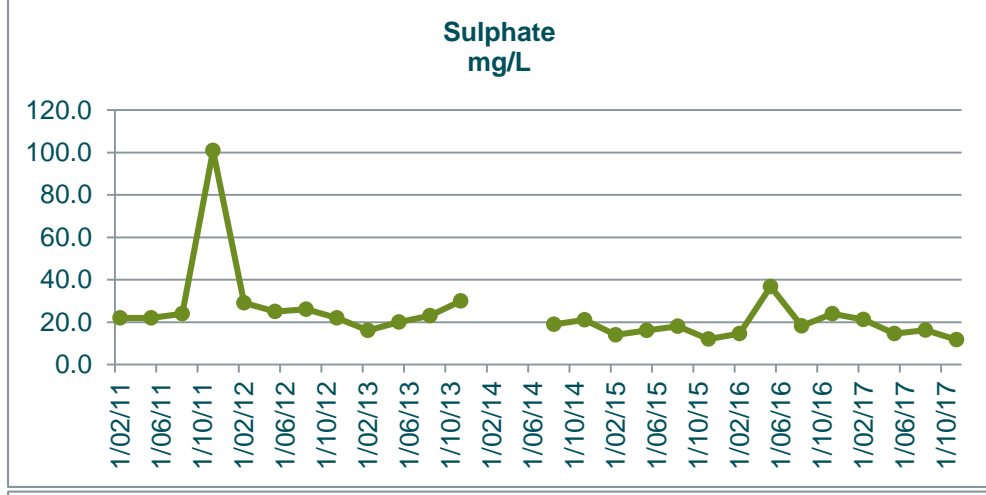
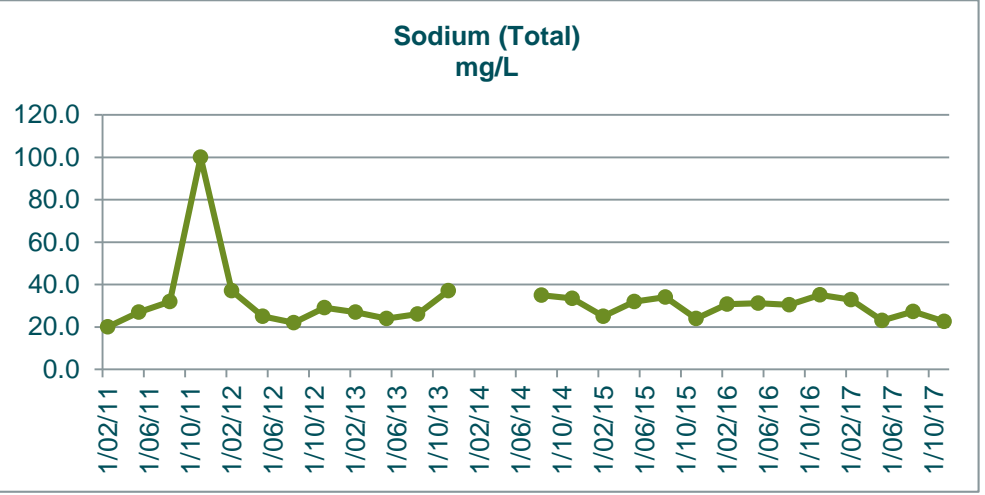
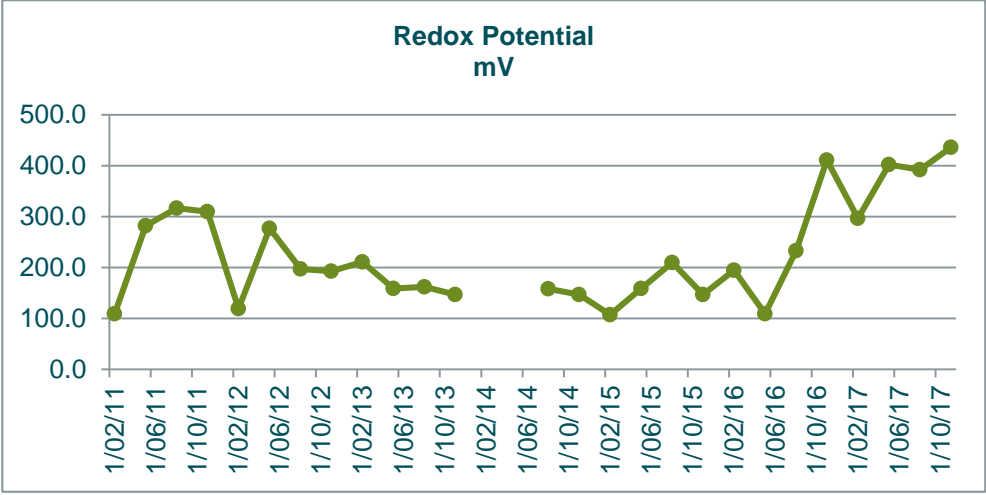
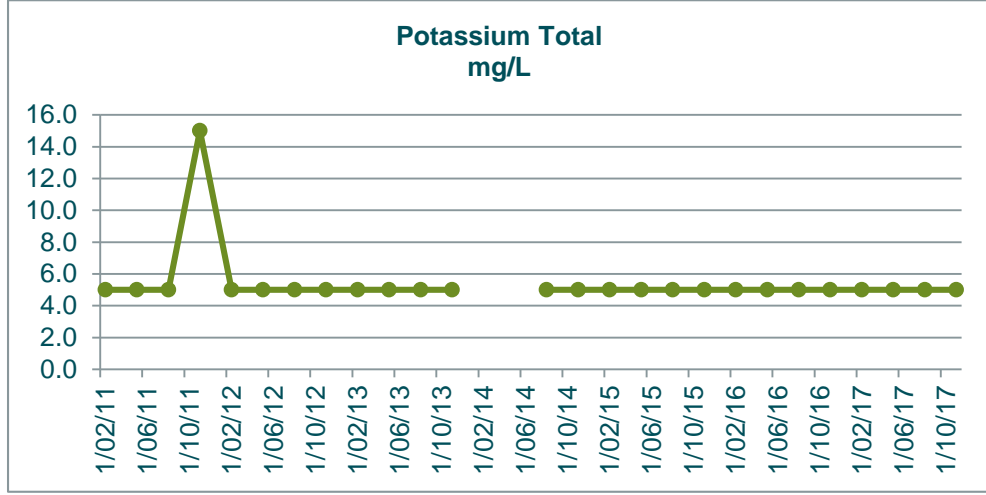
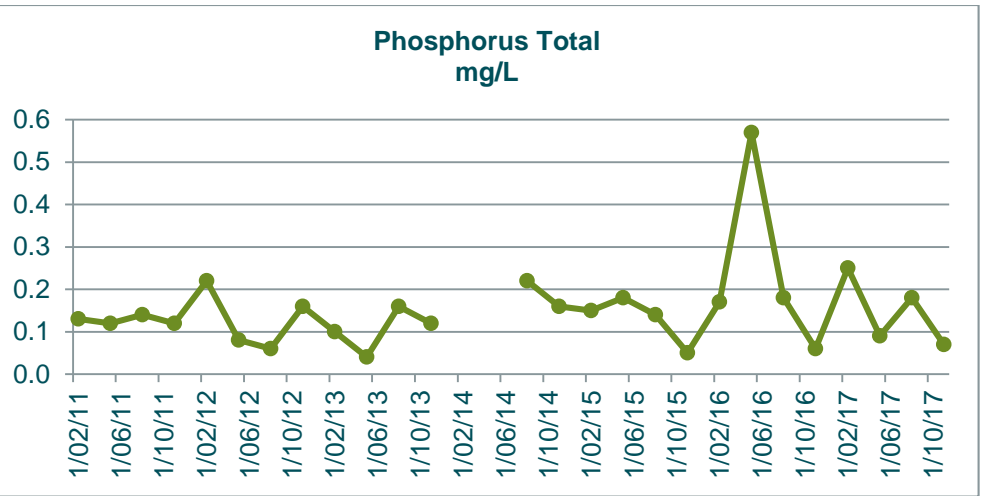
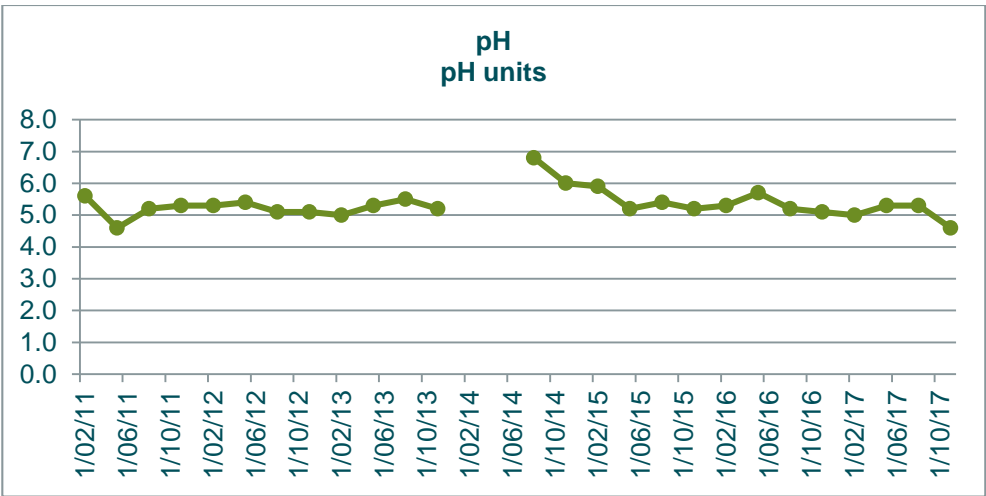
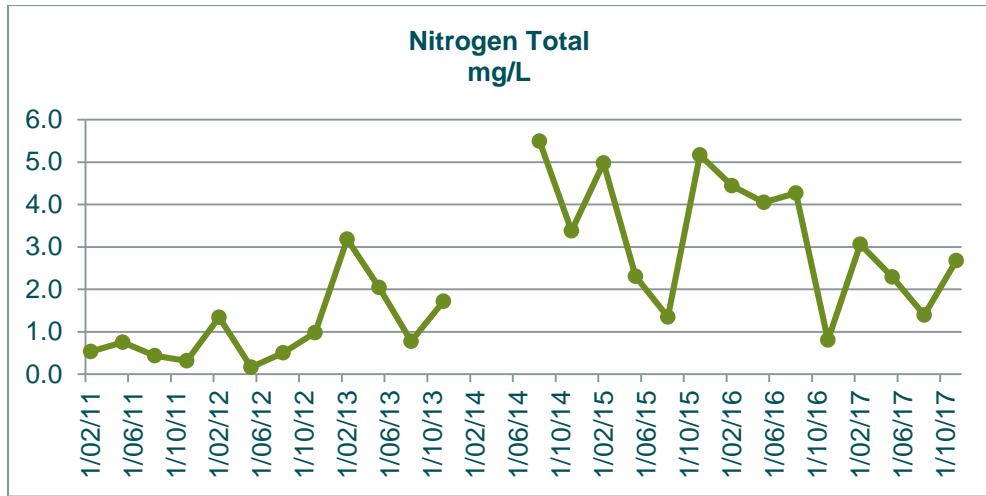




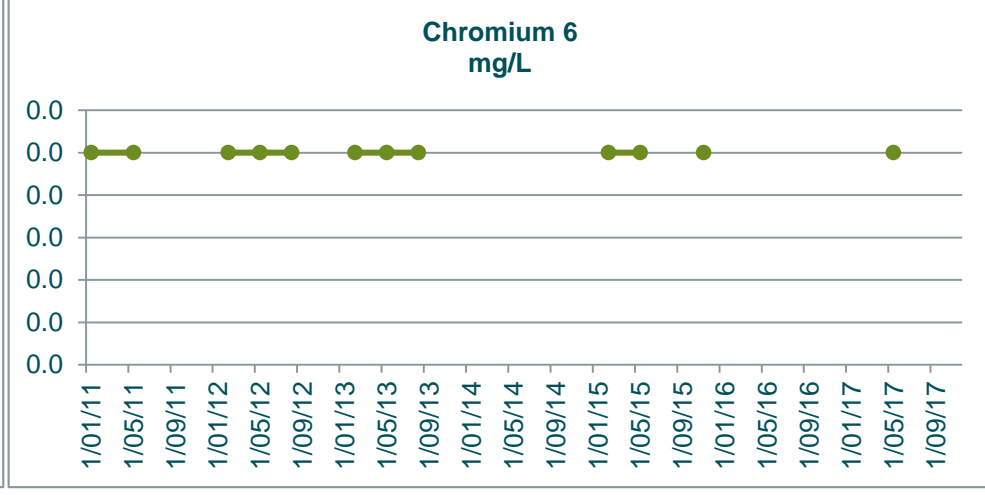
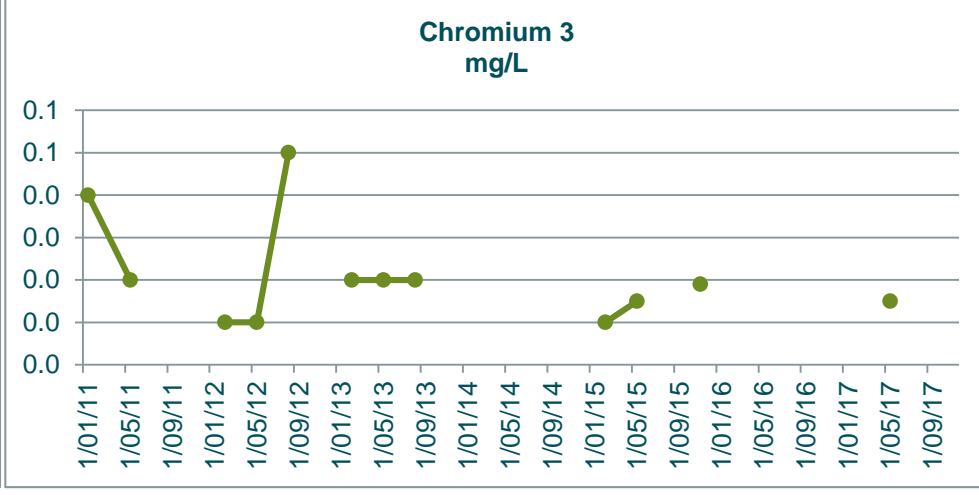
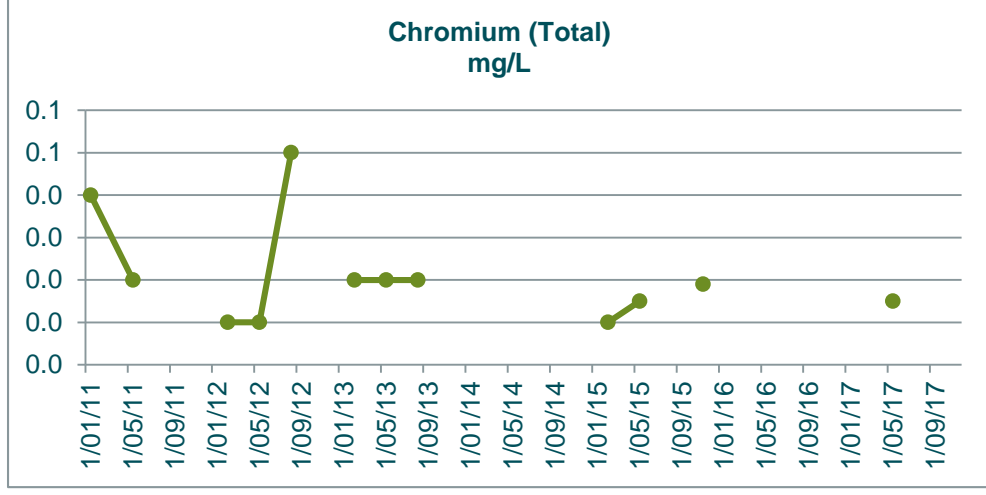
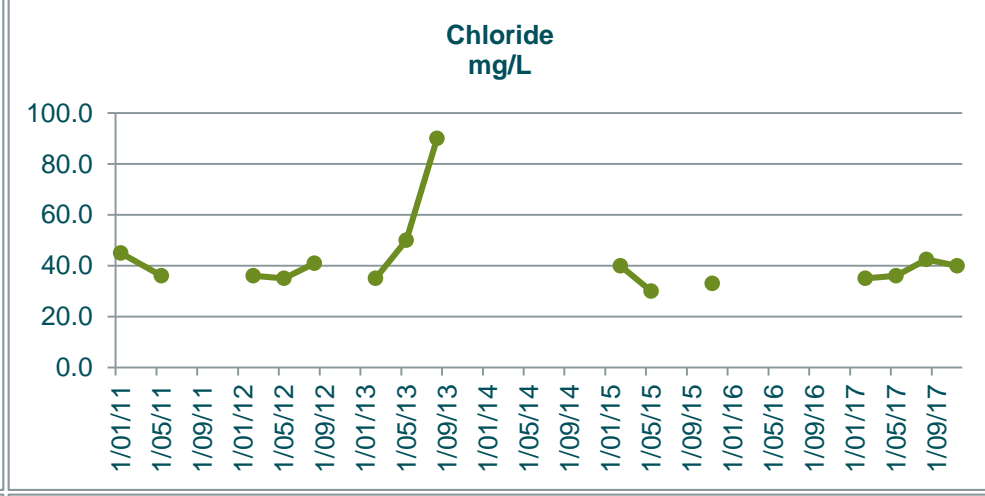
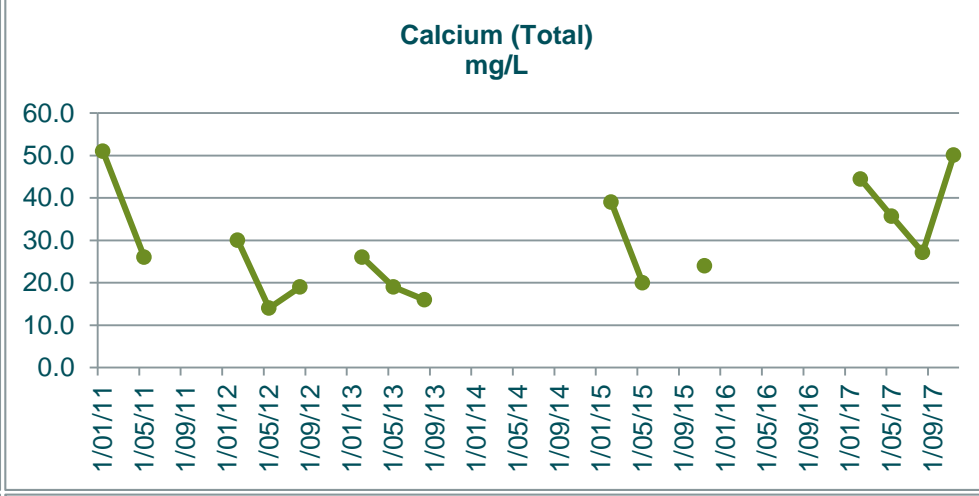
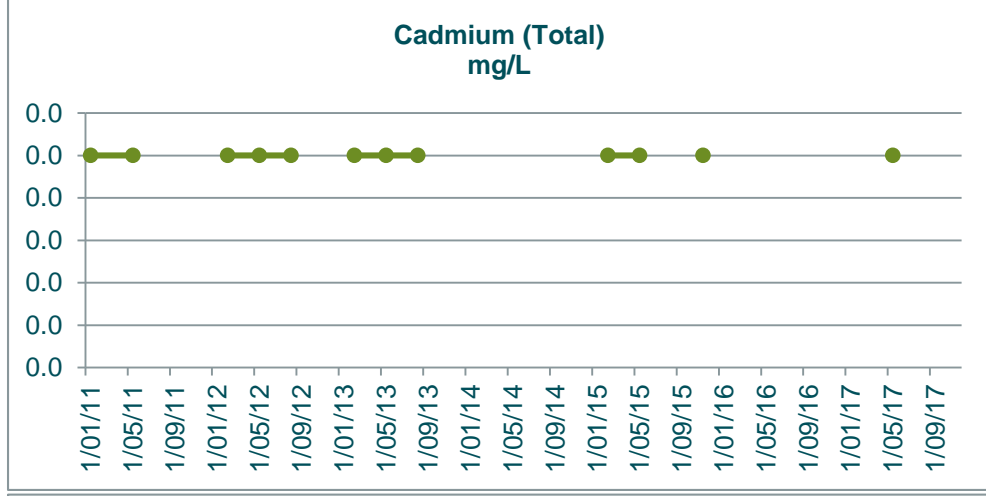
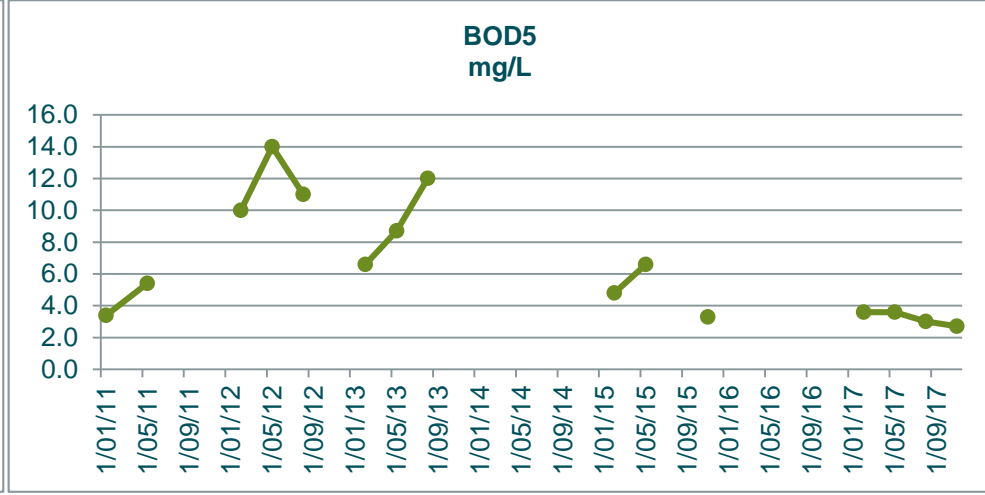
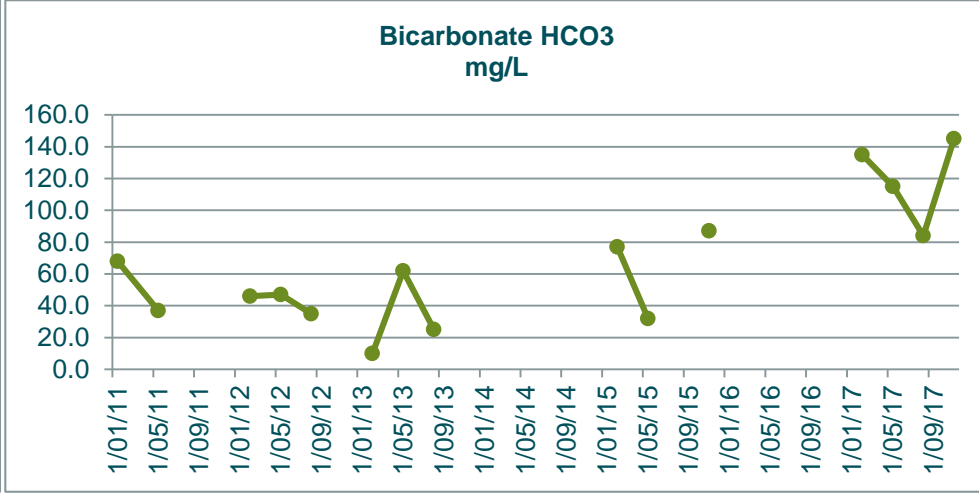
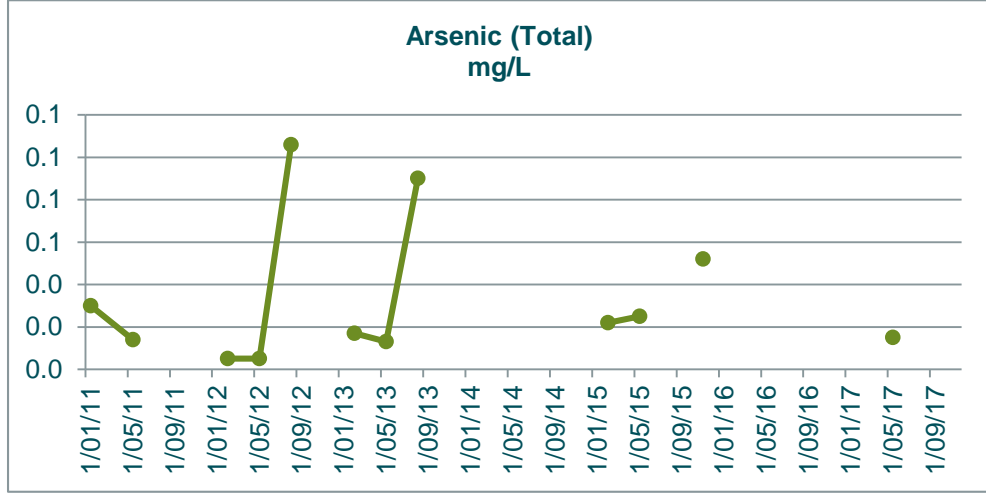
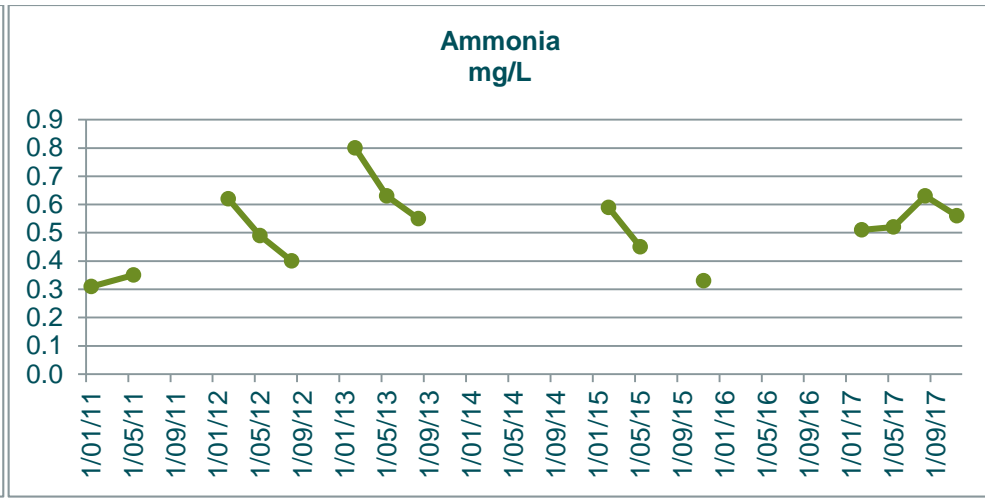
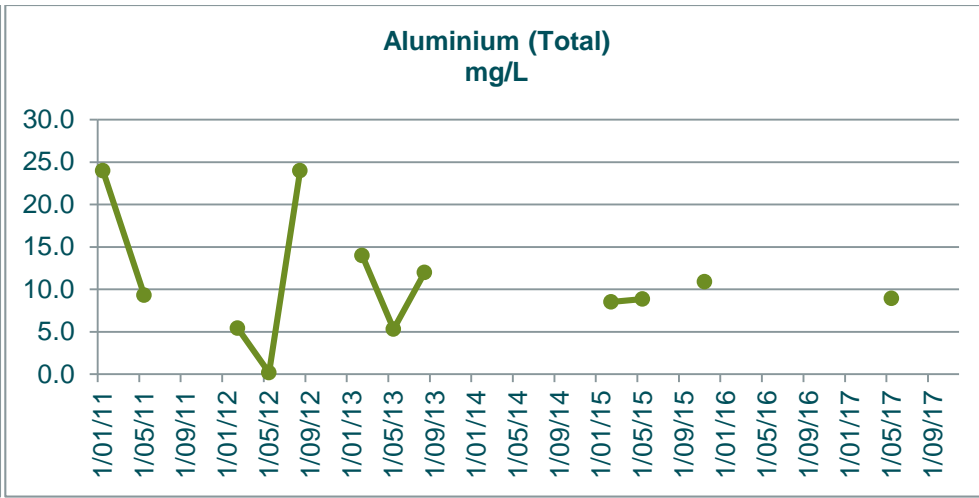
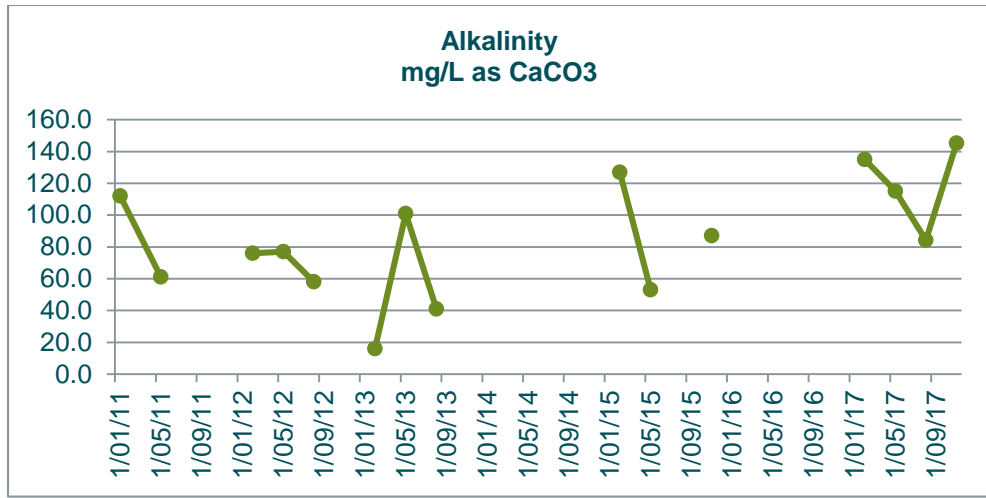
GW16	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L		
1/02/11	10.0	11.0	0.1	0.0	6.0	1.0	0.0	0.5	27.0	0.0	0.0	0.0	165.0	0.0	2.3	0.0	6.8	0.0	0.6	0.1	0.0	0.1	0.1	0.1	0.5	5.6		0.1	5.0	109.0	20.0	22.0	23.4	0.5	4.9	31.0	0.0		
11/05/11	7.0	5.8	0.1	0.0	4.0	1.0	0.0	0.1	31.0	0.0	0.0	0.0	212.0	0.0	3.4	0.0	3.2	0.0	1.2	0.0	0.0	0.4	0.1	0.4	0.8	4.6		0.1	5.0	282.0	27.0	22.0	21.6	0.3	1.6	54.0	0.0		
10/08/11	8.0	10.0	0.1	0.0	5.0	1.0	0.0	0.2	23.0	0.0	0.0	0.0	205.0	0.0	3.4	0.1	5.9	0.0	1.1	0.1	0.0	0.2	0.1	0.2	0.4	5.2		0.1	5.0	317.0	32.0	24.0	19.2	0.2	1.7	54.0	0.0		
9/11/11	10.0	9.0	0.0	0.0	6.0	1.0	0.0	119.0	36.0	0.0	0.0	0.0	196.0	0.0	2.3	0.1	6.0	0.0	21.0	0.1	0.0	0.1	0.0	0.1	0.3	5.3		0.1	15.0	310.0	100.0	101.0	21.4	0.2	1.2	62.0	0.0		
7/02/12	16.0	34.0	0.5	0.0	10.0	3.9	0.0	0.5	30.0	0.0	0.0	0.0	185.0	0.0	1.7	0.0	27.0	0.0	1.6	0.2	0.0	0.2	0.0	0.2	1.3	5.3		0.2	5.0	119.0	37.0	29.0	23.1	1.2	2.6	84.0	0.0		
9/05/12	10.0	4.1	0.0	0.0	6.0	1.0	0.0	0.5	26.0	0.0	0.0	0.0	191.0	0.0	4.8	0.1	2.5	0.0	1.4	0.0	0.0	0.0	0.0	0.1	0.2	5.4		0.1	5.0	277.0	25.0	25.0	22.1	0.2	0.9	50.0	0.0		
7/08/12	7.0	20.0	0.1	0.0	4.0	1.0	0.0	0.5	24.0	0.0	0.0	0.0	192.0	0.0	4.3	0.0	15.0	0.0	1.3	0.1	0.0	0.1	0.0	0.1	0.5	5.1		0.1	5.0	197.0	22.0	26.0	19.4	0.4	0.9	42.0	0.1		
14/11/12	5.0	41.0	0.0	0.0	3.0	1.0	0.0	0.4	29.0	0.0	0.0	0.0	200.0	0.0	5.8	0.1	26.0	0.0	1.1	0.2	0.0	0.3	0.0	0.3	1.0	5.1		0.2	5.0	193.0	29.0	22.0	22.3	0.7	2.7	48.0	0.1		
14/02/13	4.0	19.0	0.1	0.0	2.0	1.0	0.0	0.7	26.0	0.0	0.0	0.0	183.0	0.0	3.3	0.1	11.0	0.0	2.0	0.1	0.0	3.2	0.0	3.2	3.2	5.0		0.1	5.0	211.0	27.0	16.0	24.5	0.1	1.2	46.0	0.0		
15/05/13	8.0	12.0	0.0	0.0	5.0	1.2	0.0	0.7	25.0	0.0	0.0	0.0	162.0	0.0	3.9	0.0	7.0	0.0	1.3	0.1	0.0	1.8	0.0	1.8	2.0	5.3		0.0	5.0	159.0	24.0	20.0	21.8	0.2	1.0	62.0	0.0		
7/08/13	8.0	17.0	0.1	0.0	5.0	1.0	0.0	0.4	24.0	0.0	0.0	0.0	144.0	0.0	5.0	0.0	9.6	0.0	1.1	0.1	0.0	0.4	0.0	0.4	0.8	5.5		0.2	5.0	162.0	26.0	23.0	19.0	0.4	1.0	65.0	0.0		
13/11/13	7.0	42.0	0.2	0.0	4.0	1.0	0.0	0.3	28.0	0.0	0.0	0.0	198.0	0.0	2.8	0.0	28.0	0.0	1.1	0.3	0.0	0.7	0.0	0.7	1.7	5.2		0.1	5.0	147.0	37.0	30.0	21.4	1.1	1.1	68.0	0.1		
11/02/14																																							
13/05/14																																							
13/08/14	4.0	20.0	0.1	0.0	2.0	3.0	0.0	0.2	29.0	0.0	0.0	0.0	191.0	0.0	5.4	0.0	9.2	0.0	1.4	0.1	0.0	4.7	0.0	4.7	5.5	6.8		0.2	5.0	158.0	35.0	19.0	19.0	0.8	1.0	56.0	0.1		
11/11/14	5.0	8.0	0.0	0.0	3.0	1.8	0.0	0.3	31.0	0.0	0.0	0.0	187.0	0.0	3.8	0.0	3.6	0.0	1.4	0.1	0.0	3.0	0.0	3.0	3.4	6.0		0.2	5.0	147.0	33.4	21.0	20.9	0.4	0.8	51.0	0.0		
10/02/15	9.0	8.9	0.2	0.0	5.0	3.6	0.0	0.9	28.0	0.0	0.0	0.0	168.0	0.0	2.8	0.2	3.3	0.0	1.8	0.1	0.0	4.2	0.0	4.2	5.0	5.9		0.2	5.0	107.0	25.0	14.0	23.7	0.8	1.3	44.0	0.0		
12/05/15	7.0	21.8	0.0	0.0	4.0	3.9	0.0	0.7	34.0	0.0	0.0	0.0	179.0	0.0	4.5	0.0	10.2	0.0	1.6	0.1	0.0	1.3	0.0	1.3	2.3	5.2		0.2	5.0	159.0	32.0	16.0	21.8	1.1	0.9	47.0	0.0		
12/08/15	7.0	16.2	0.0	0.0	7.0	3.0	0.0	0.3	34.0	0.0	0.0	0.0	189.0	0.0	4.7	0.0	9.5	0.0	1.5	0.1	0.0	0.5	0.0	0.5	1.4	5.4		0.1	5.0	210.0	34.0	18.0	18.5	0.8	1.1	47.0	0.0		
11/11/15	7.0	5.8	0.0	0.0	7.0	2.4	0.0	0.7	20.0	0.0	0.0	0.0	156.0	0.0	5.4	0.0	2.5	0.0	2.1	0.1	0.0	5.1	0.0	5.1	5.2	5.2		0.1	5.0	147.0	24.0	12.0	20.7	0.1	0.9	37.0	0.0		
9/02/16	6.0	30.8	0.0	0.0	6.0	2.1	0.0	0.4	27.0	0.0	0.0	0.0	176.0	0.0	4.1	0.0	15.5	0.0	1.6	0.1	0.0	3.4	0.0	3.4	4.4	5.3		0.2	5.0	195.0	30.7	14.6	22.9	1.0	1.7	81.0	0.1		
10/05/16	24.0	5.6	1.6	0.0	24.0	10.5	0.0	0.7	28.0	0.0	0.0	0.0	193.0	0.0	1.5	0.0	3.3	0.0	1.8	0.1	0.0	0.2	0.0	0.2	4.1	5.7		0.6	5.0	109.0	31.1	36.7	22.8	3.9	4.6	77.0	0.0		
10/08/16	7.0		0.0		7.0	4.2		0.5	24.0				178.7		4.2	0.0			1.7			3.8	0.0	3.8	4.3	5.2		0.2	5.0	233.0	30.4	18.2	19.2	0.5	0.8	53.9			
8/11/16	8.6		0.0		9.0	1.0		0.3	32.5				188.8		2.1	0.0			1.5			0.5	0.0	0.5	0.8	5.1		0.1	5.0	411.3	35.1	23.9	20.7	0.3	0.9	92.8			
8/02/17	6.5		0.1		6.0	1.2		0.2	33.0				201.5		3.8	0.0			1.0			1.9	0.0	1.9	3.1	5.0		0.3	5.0	296.9	32.8	21.2	23.2	1.1	1.3	95.8			
9/05/17	8.0	11.9	0.0	0.0	8.0	1.8	0.0	0.4	24.0	0.0	0.0	0.0	136.1	0.0	4.0	0.0	6.2	0.0	1.2	0.1	0.0	1.7	0.0	1.7	2.3	5.3		0.1	5.0	402.3	23.1	14.6	21.6	0.6	1.7	40.3	0.0		
9/08/17	7.0		0.0		7.0	1.5		0.3	45.0				159.1		4.9	0.0			1.0			0.7	0.0	0.7	1.4	5.3		0.2	5.0	392.4	27.3	16.2	19.0	0.7	1.2	37.3			
8/11/17	5.6		0.0		6.0	1.0		0.5	23.5				142.3		4.2	0.0			1.5			2.3	0.0	2.3	2.7	4.6		0.1	5.0	436.2	22.5	11.7	21.1	0.4	1.0	32.8			
2017 Min	5.6	11.9	0.0	0.0	6.0	1.2	0.0	0.2	23.5	0.0	0.0	0.0	136.1	0.0	3.8	0.0	6.2	0.0	1.0	0.1	0.0	0.7	0.0	0.7	1.4	4.6		0.1	5.0	296.9	22.5	11.7	19.0	0.4	1.0	32.8	0.0		
2017 Mean	6.8	11.9	0.0	0.0	6.8	1.5	0.0	0.4	31.4	0.0	0.0	0.0	159.8	0.0	4.2	0.0	6.2	0.0	1.2	0.1	0.0	1.7	0.0	1.7	2.4	5.1		0.1	5.0	382.0	26.4	15.9	21.2	0.7	1.3	51.6	0.0		

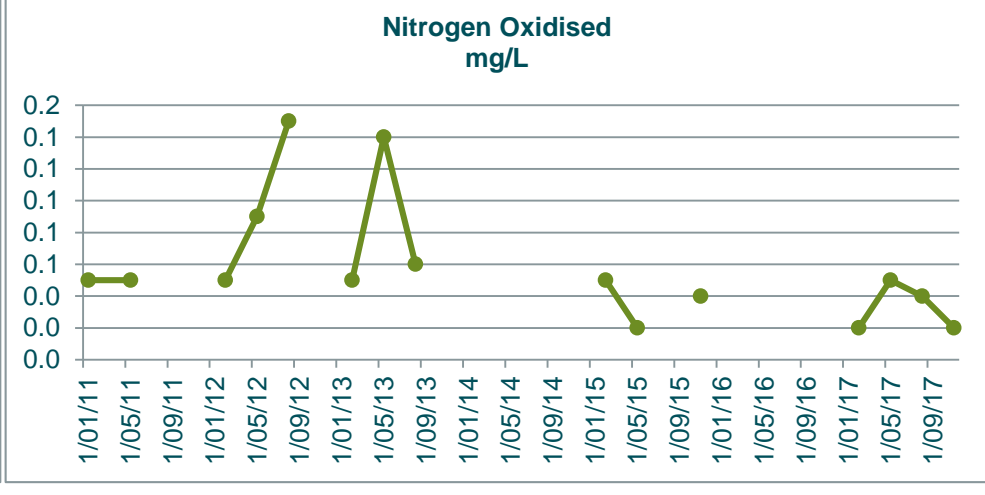
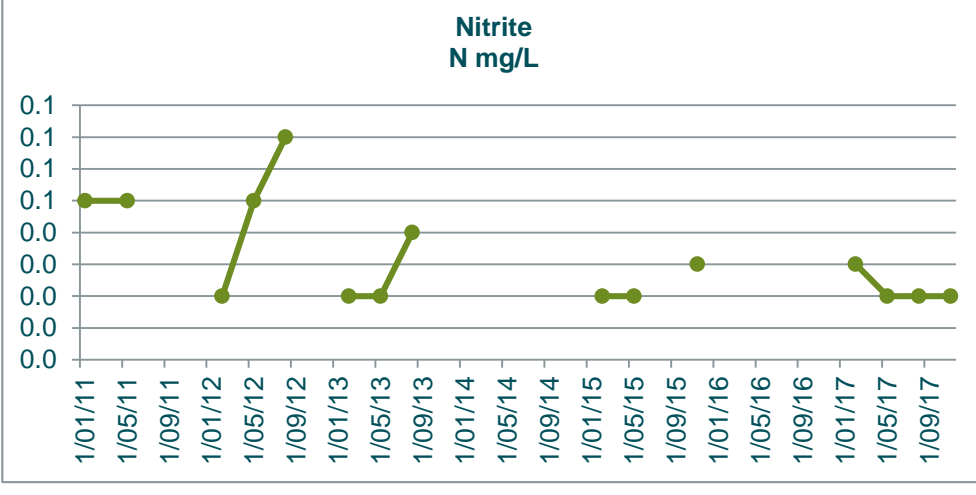
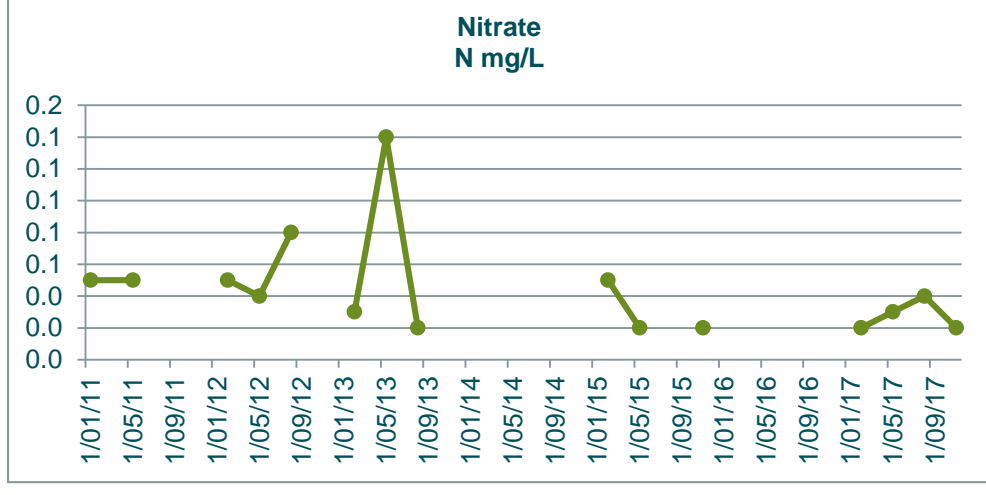
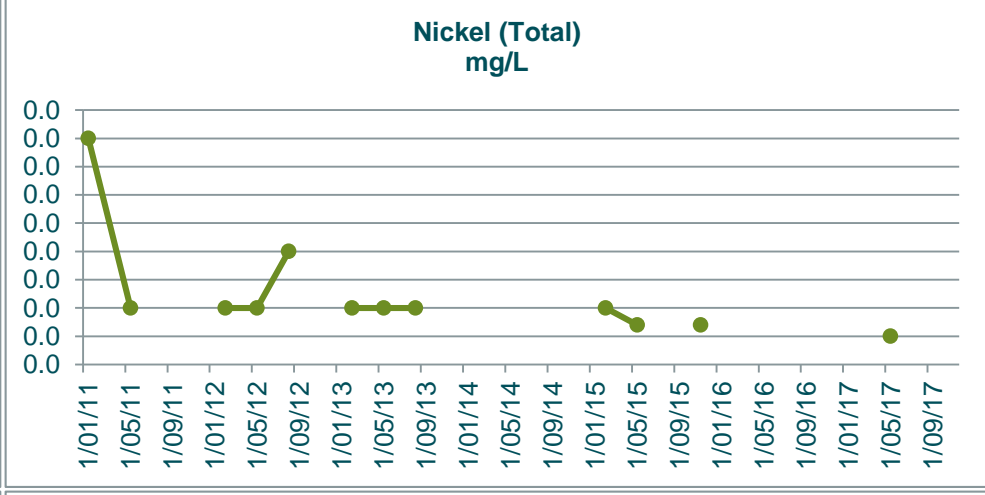
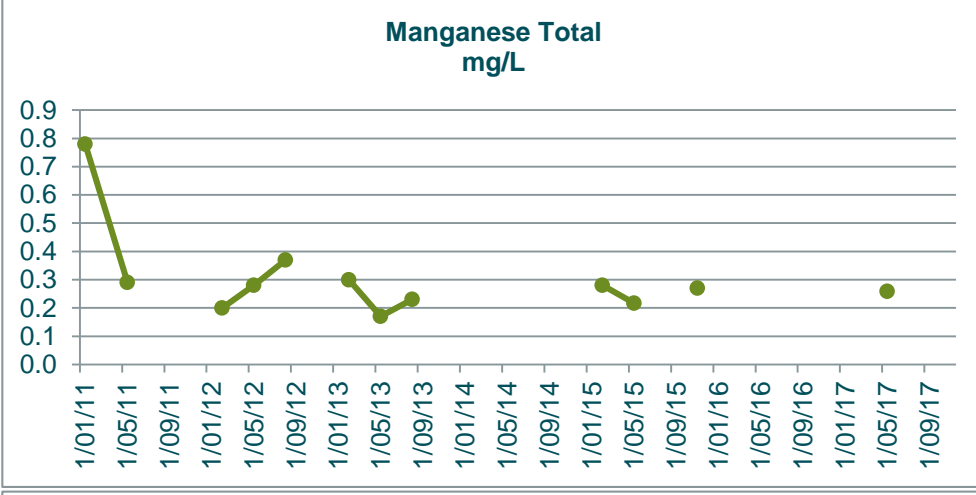
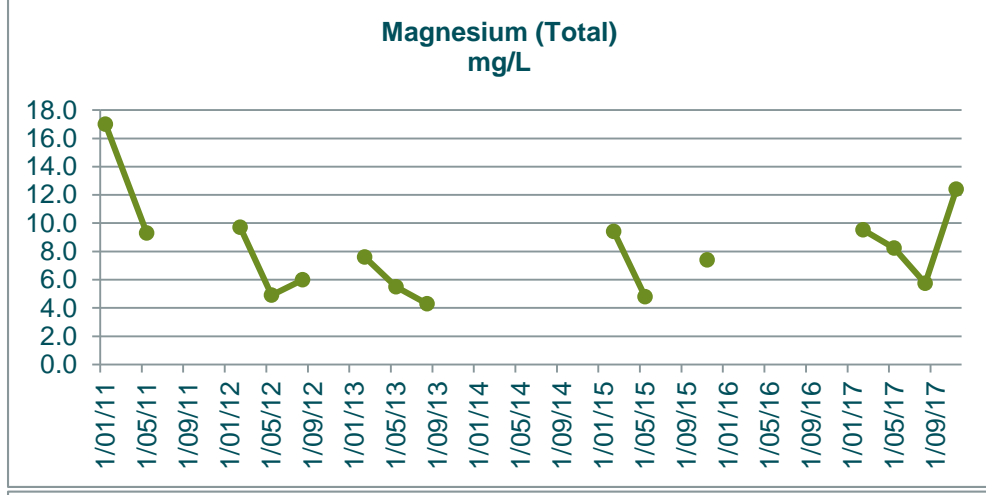
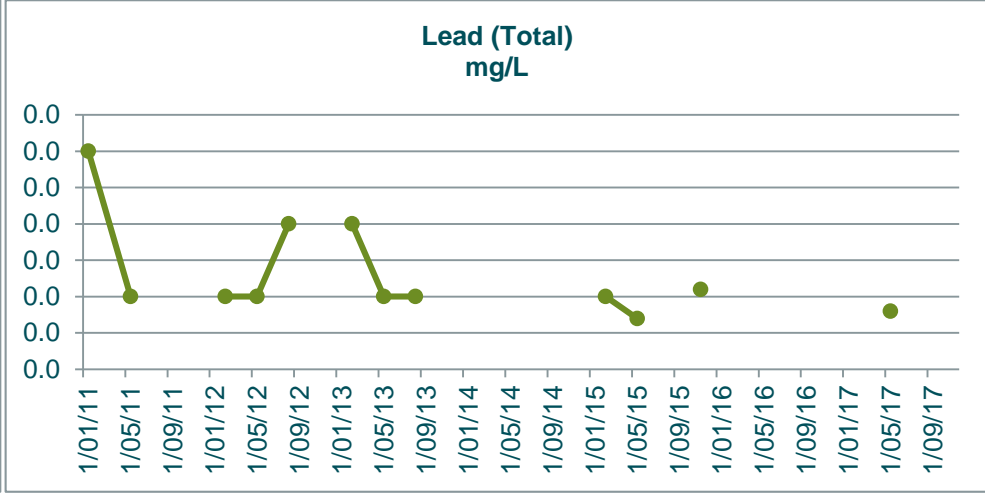
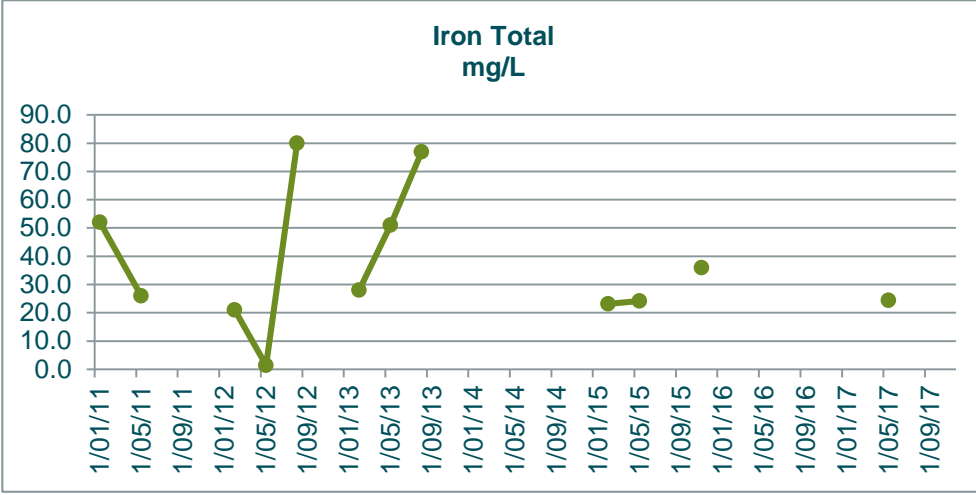
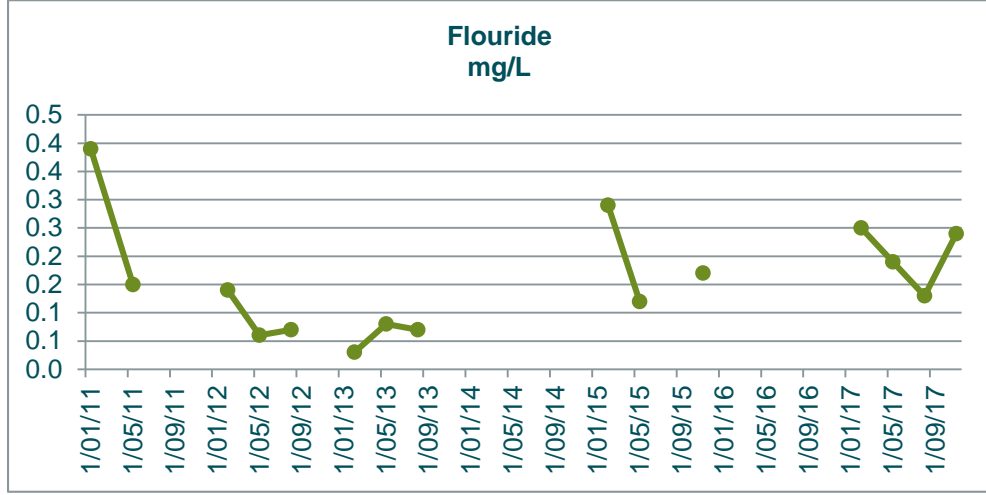
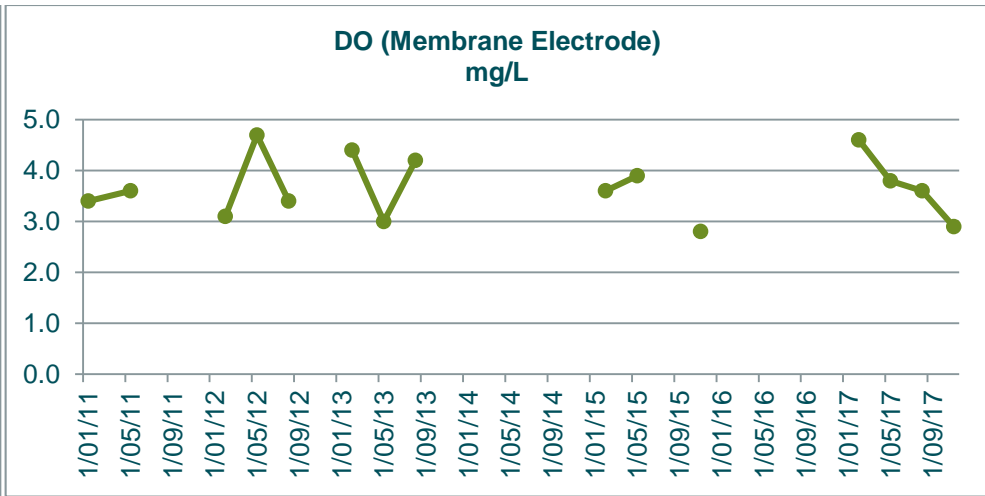
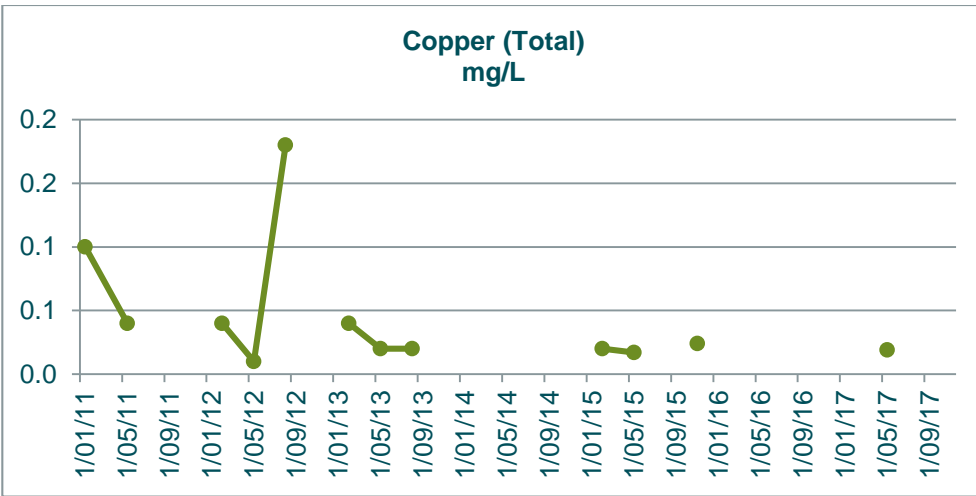
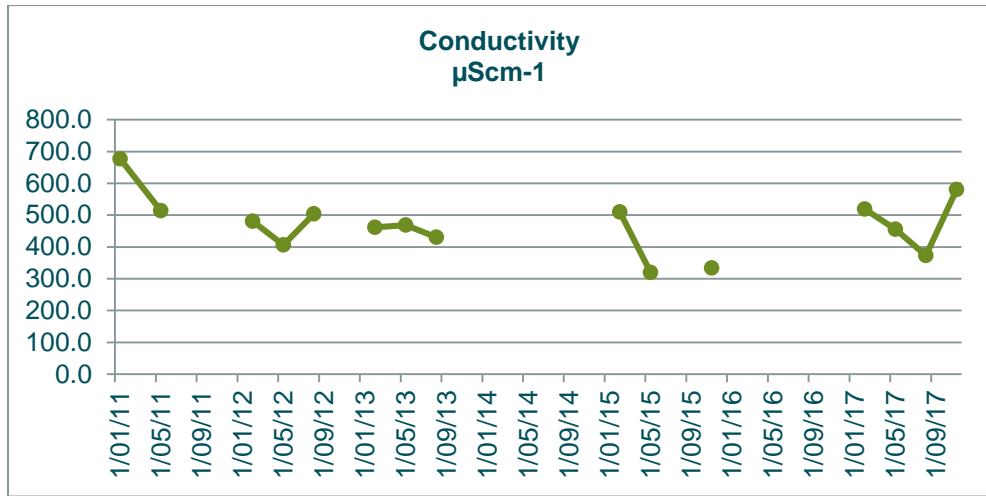


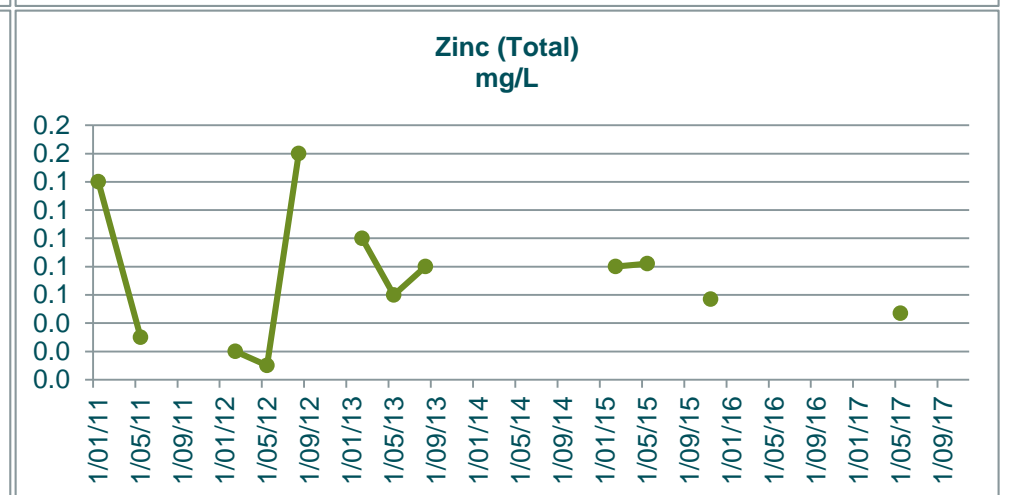
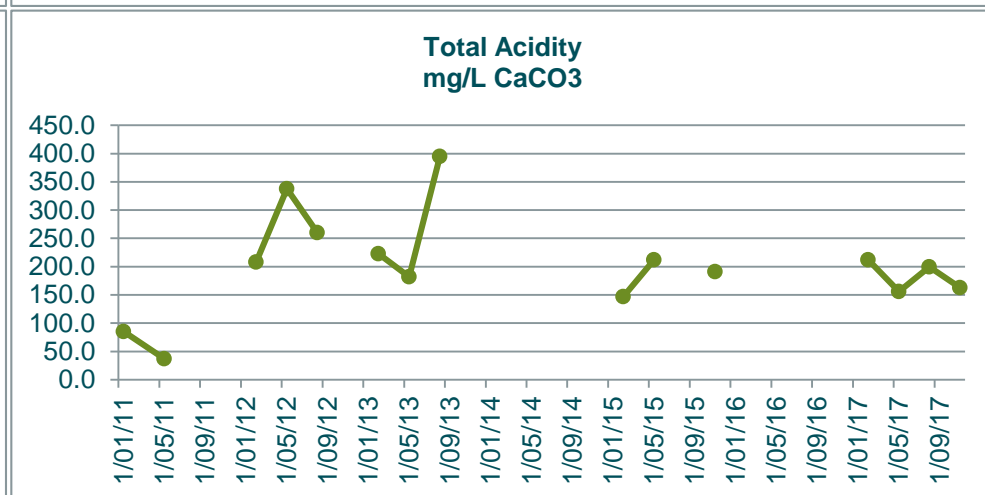
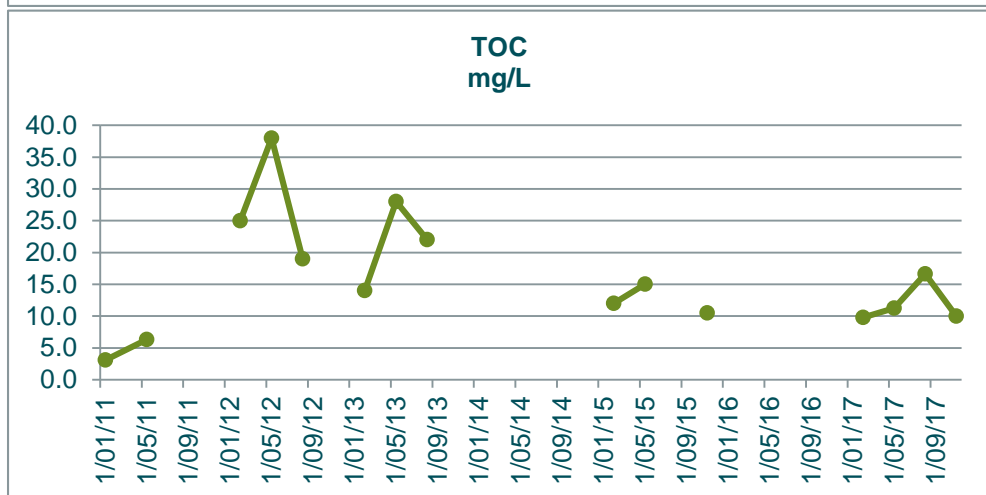
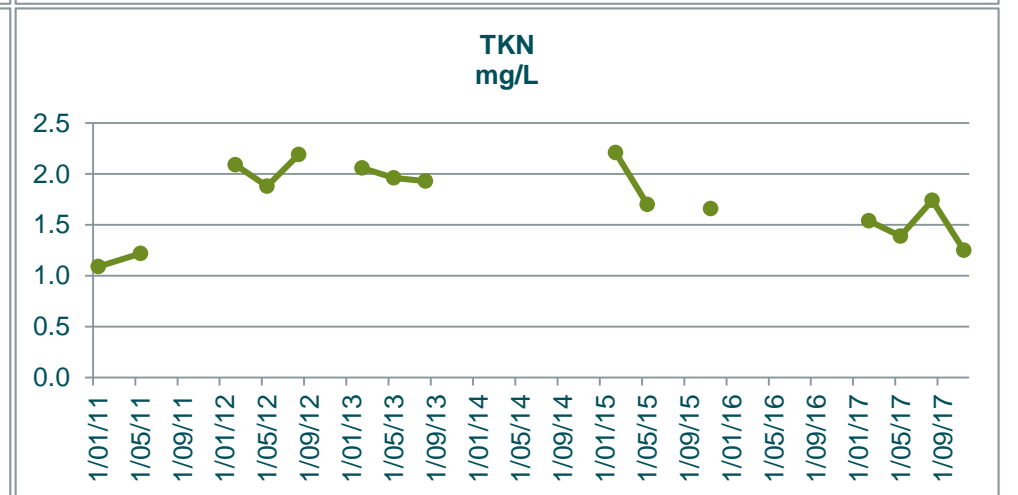
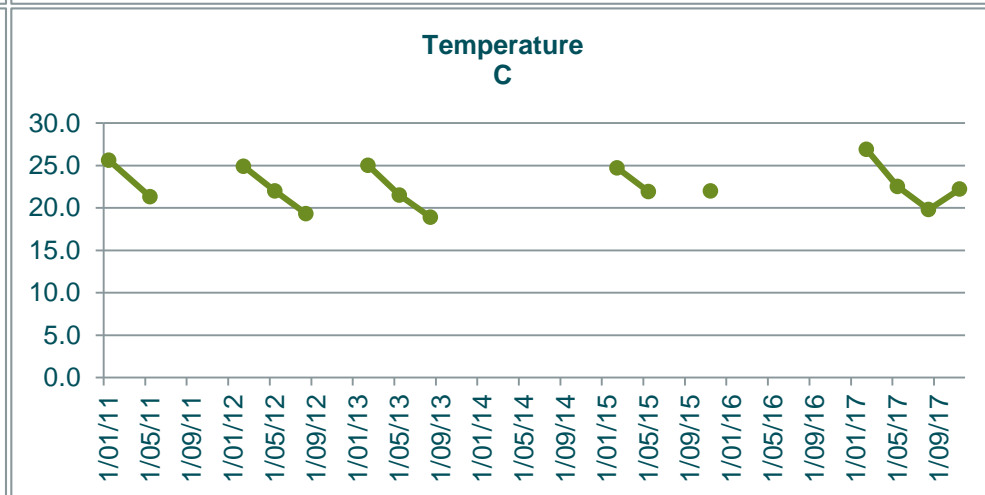
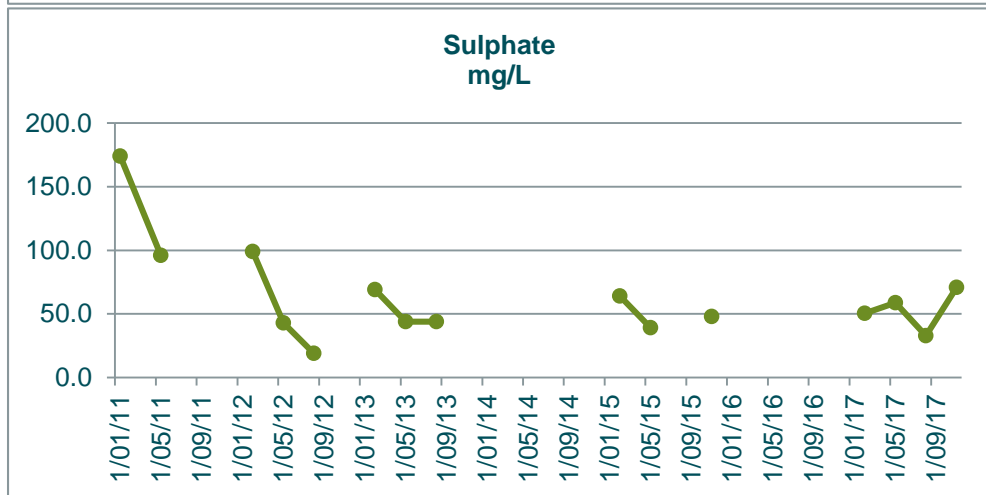
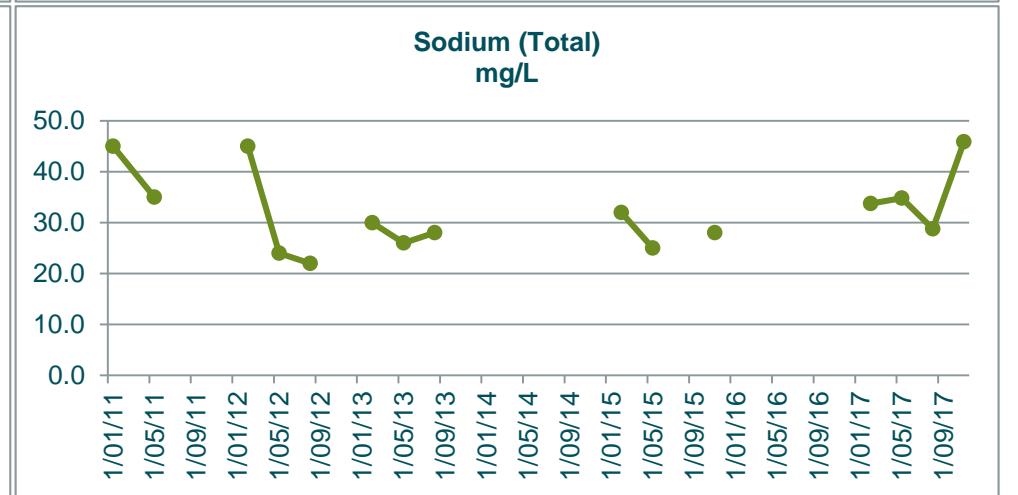
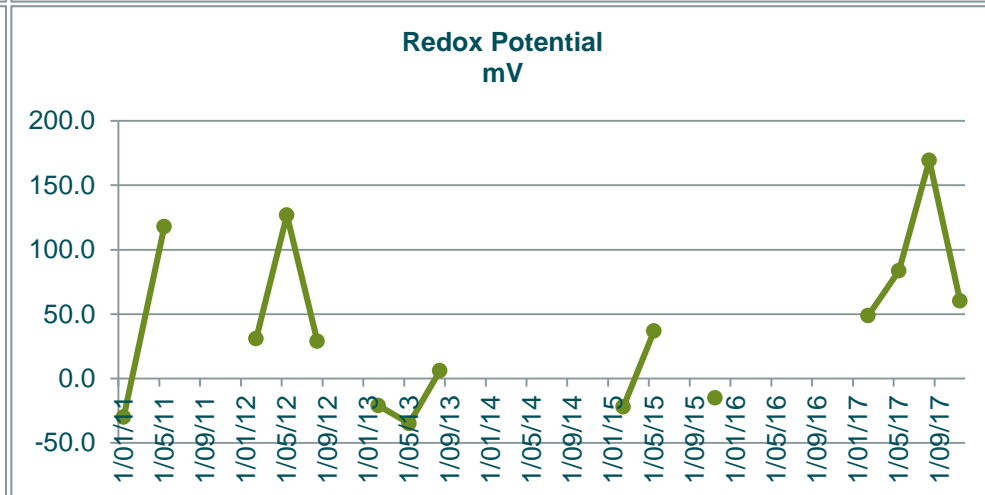
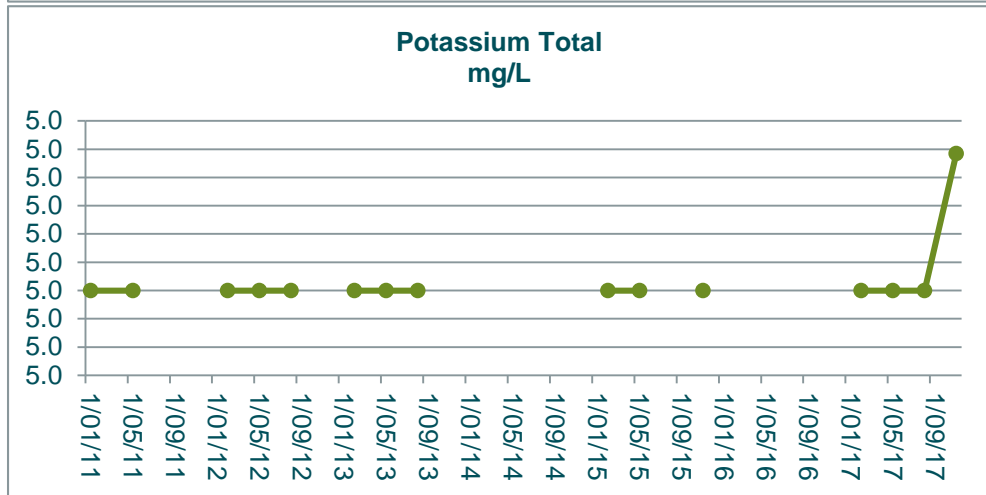
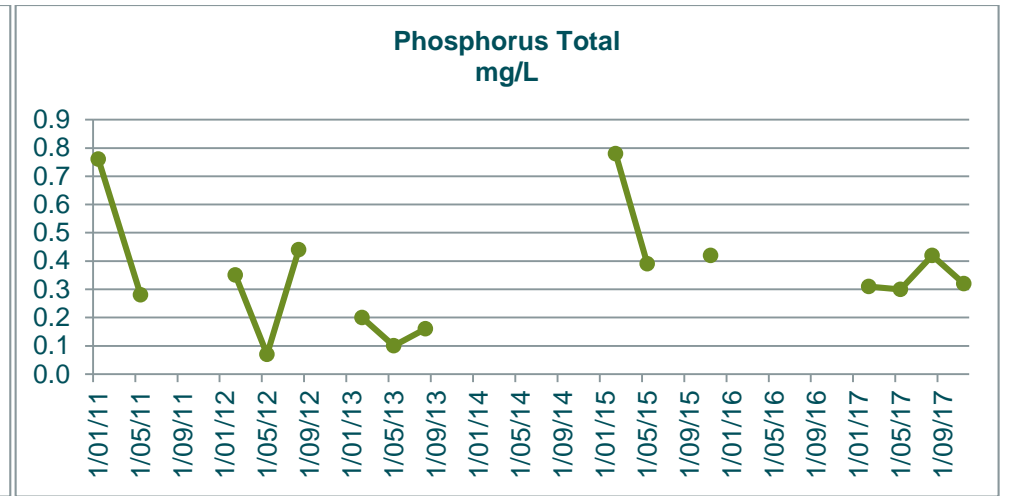
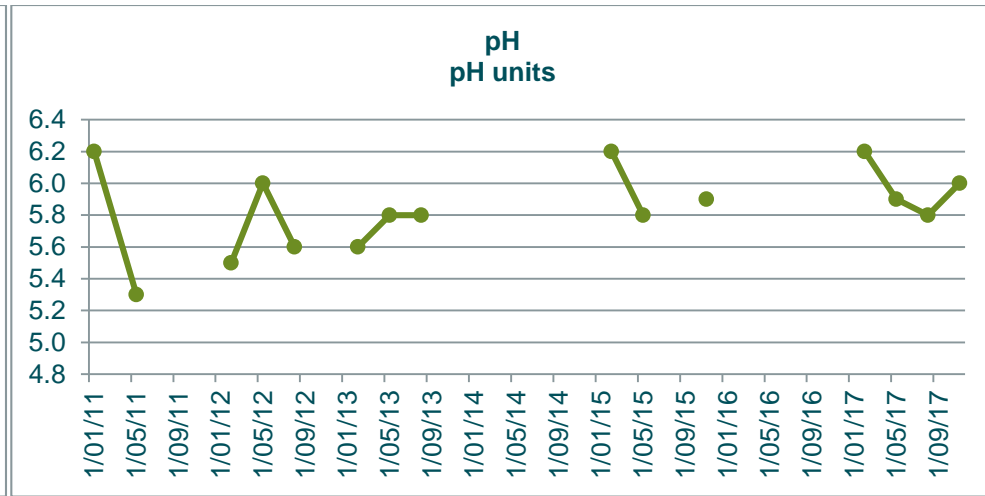
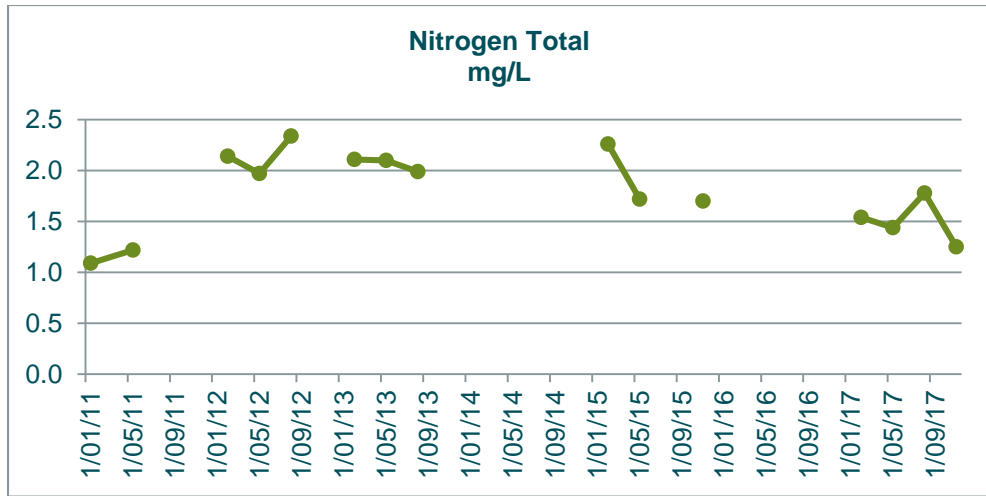




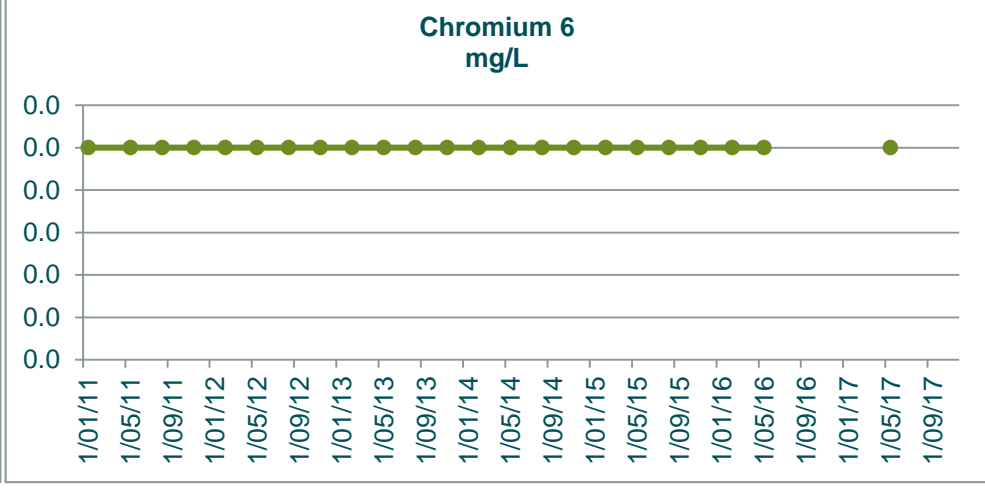
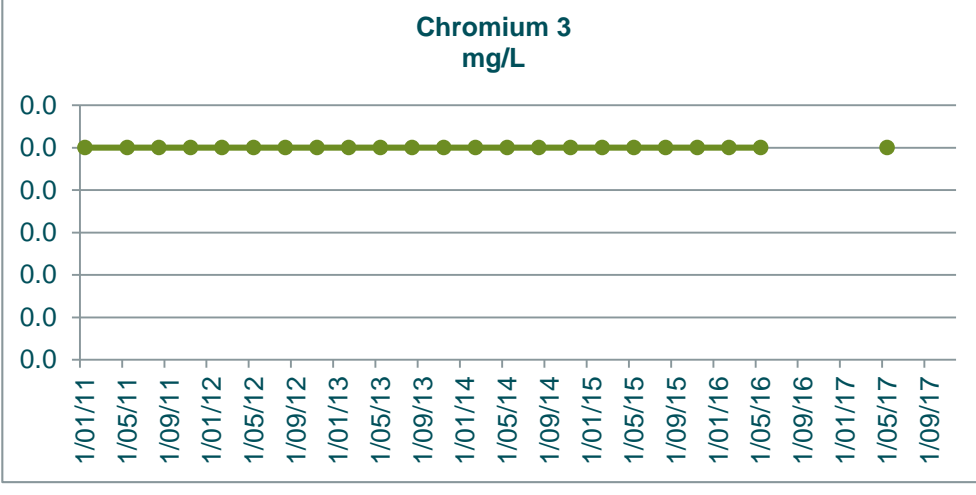
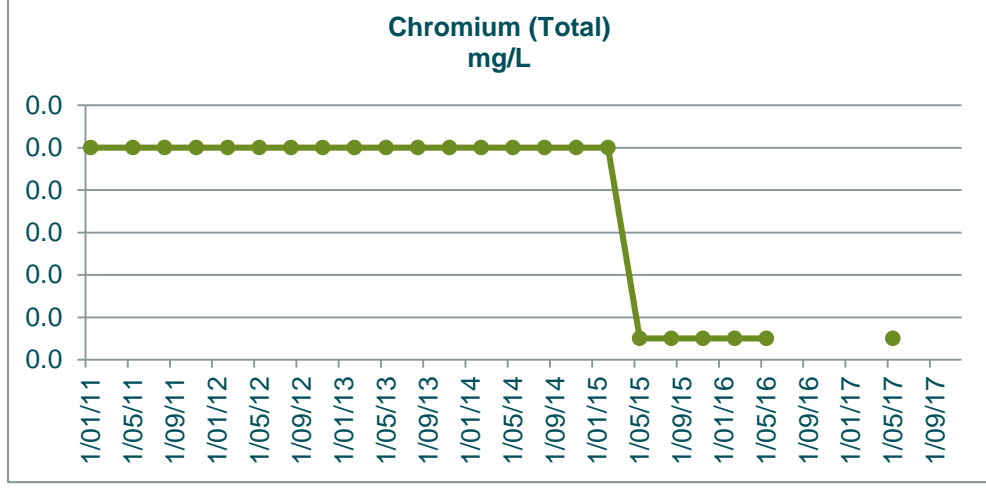
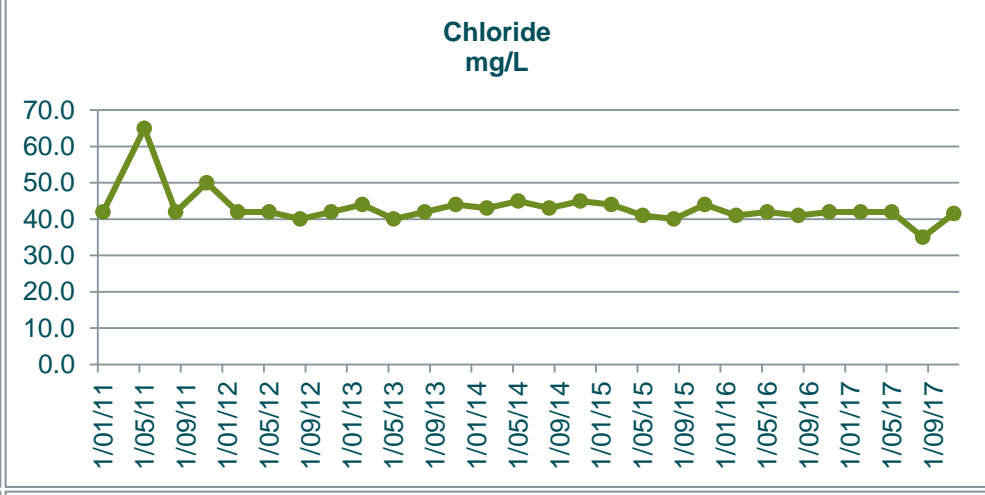
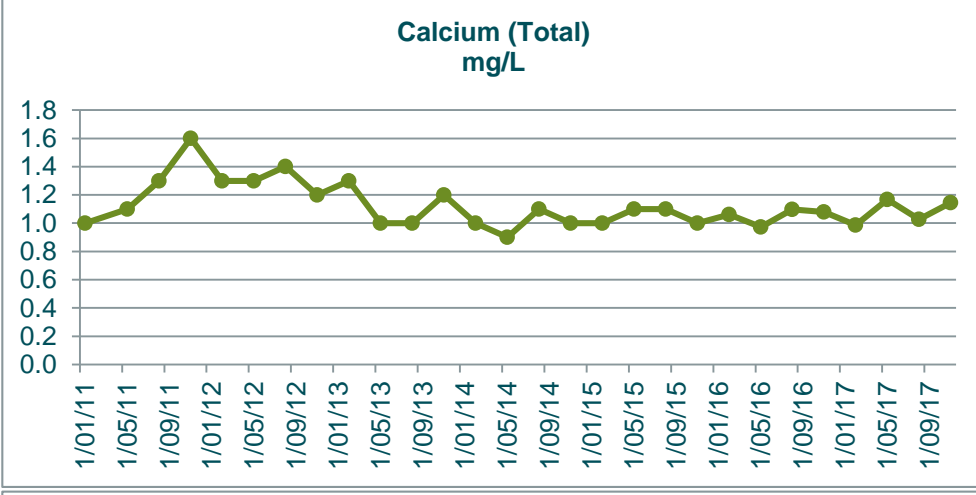
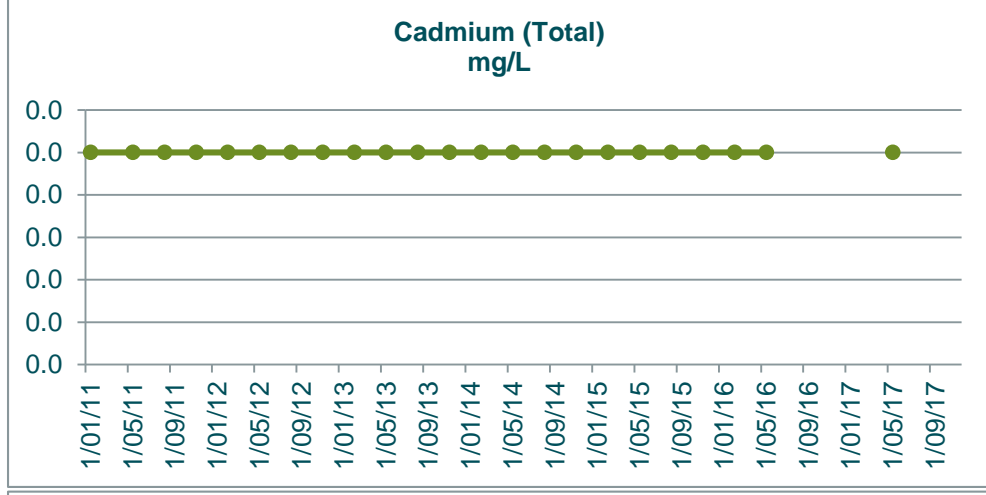
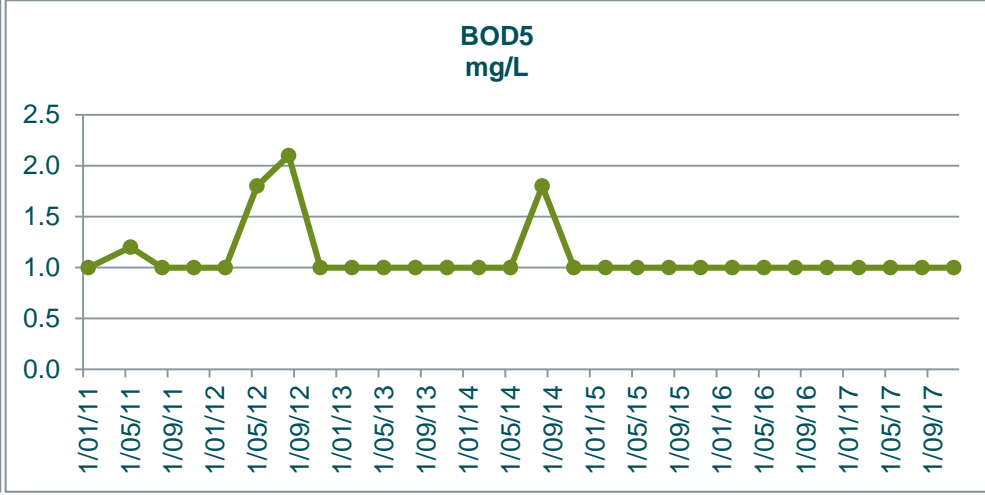
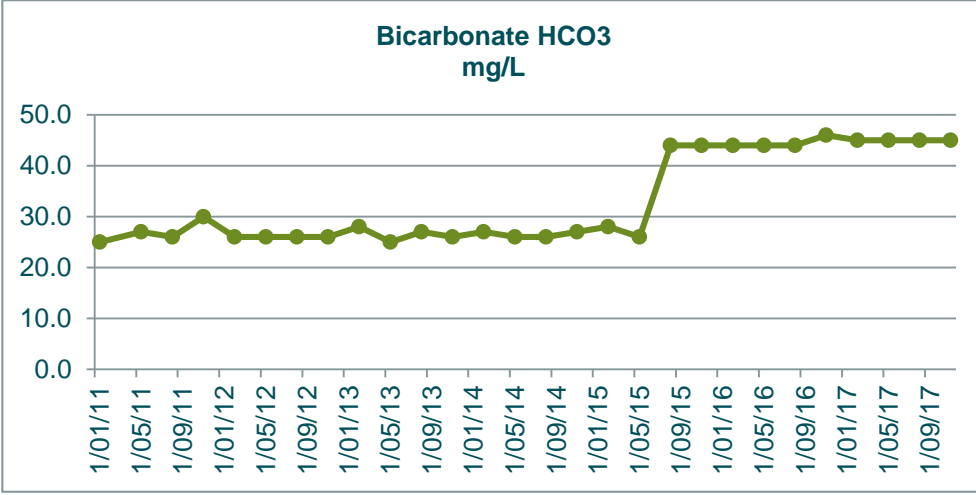
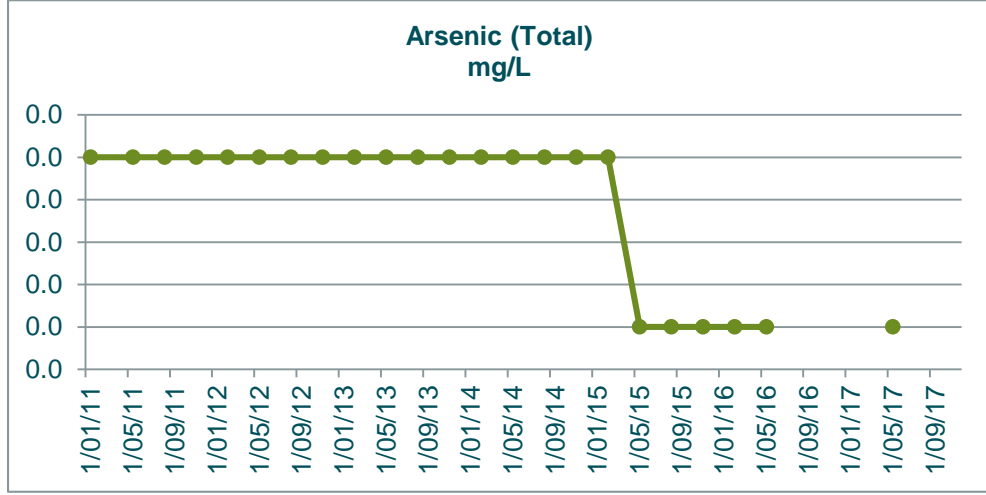
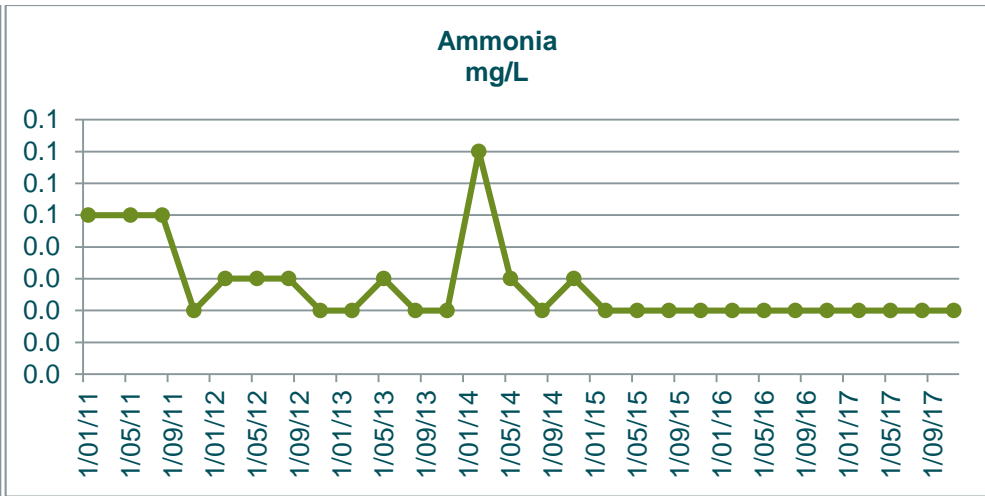
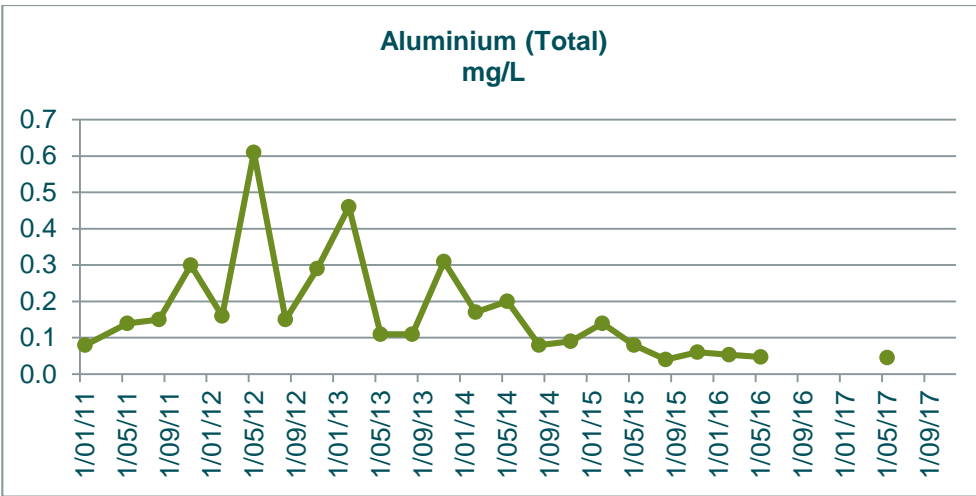
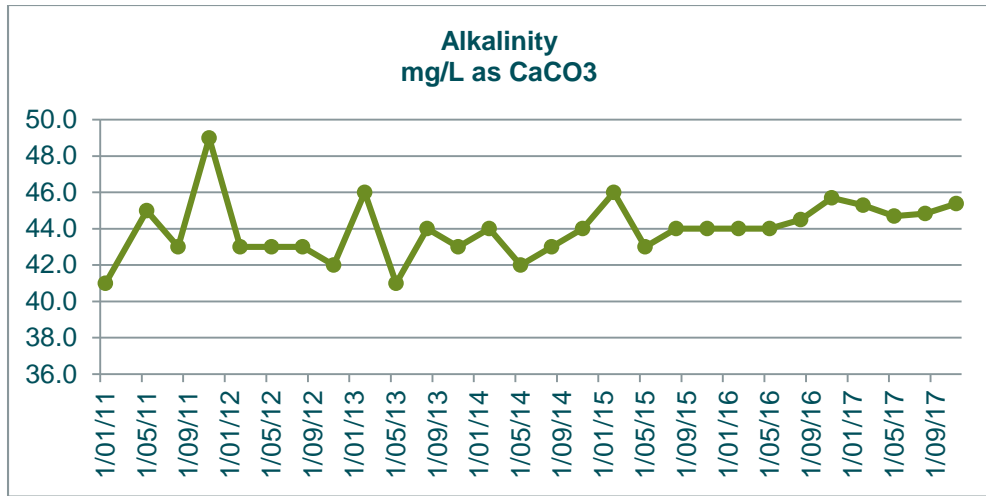
GW17	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L		
31/01/11	112.0	24.0	0.3	0.0	68.0	3.4	0.0	51.0	45.0	0.0	0.0	0.0	677.0	0.1	3.4	0.4	52.0	0.0	17.0	0.8	0.0	0.1	0.1	0.1	1.1	6.2		0.8	5.0	-30.0	45.0	174.0	25.6	1.1	3.1	85.0	0.1		
10/05/11	61.0	9.3	0.4	0.0	37.0	5.4	0.0	26.0	36.0	0.0	0.0	0.0	514.0	0.0	3.6	0.2	26.0	0.0	9.3	0.3	0.0	0.1	0.1	0.1	1.2	5.3		0.3	5.0	118.0	35.0	96.0	21.3	1.2	6.3	37.0	0.0		
9/08/11																																							
8/11/11																																							
6/02/12	76.0	5.4	0.6	0.0	46.0	10.0	0.0	30.0	36.0	0.0	0.0	0.0	481.0	0.0	3.1	0.1	21.0	0.0	9.7	0.2	0.0	0.1	0.0	0.1	2.1	5.5		0.4	5.0	31.0	45.0	99.0	24.9	2.1	25.0	208.0	0.0		
8/05/12	77.0	0.2	0.5	0.0	47.0	14.0	0.0	14.0	35.0	0.0	0.0	0.0	406.0	0.0	4.7	0.1	1.4	0.0	4.9	0.3	0.0	0.0	0.1	0.1	2.0	6.0		0.1	5.0	127.0	24.0	43.0	22.0	1.9	38.0	338.0	0.0		
6/08/12	58.0	24.0	0.4	0.1	35.0	11.0	0.0	19.0	41.0	0.1	0.1	0.0	504.0	0.2	3.4	0.1	80.0	0.0	6.0	0.4	0.0	0.1	0.1	0.2	2.3	5.6		0.4	5.0	29.0	22.0	19.0	19.3	2.2	19.0	260.0	0.2		
13/11/12																																							
13/02/13	16.0	14.0	0.8	0.0	10.0	6.6	0.0	26.0	35.0	0.0	0.0	0.0	462.0	0.0	4.4	0.0	28.0	0.0	7.6	0.3	0.0	0.0	0.0	0.1	2.1	5.6		0.2	5.0	-21.0	30.0	69.0	25.0	2.1	14.0	223.0	0.1		
14/05/13	101.0	5.3	0.6	0.0	62.0	8.7	0.0	19.0	50.0	0.0	0.0	0.0	469.0	0.0	3.0	0.1	51.0	0.0	5.5	0.2	0.0	0.1	0.0	0.1	2.1	5.8		0.1	5.0	-35.0	26.0	44.0	21.5	2.0	28.0	182.0	0.1		
6/08/13	41.0	12.0	0.6	0.1	25.0	12.0	0.0	16.0	90.0	0.0	0.0	0.0	430.0	0.0	4.2	0.1	77.0	0.0	4.3	0.2	0.0	0.0	0.0	0.1	2.0	5.8		0.2	5.0	6.0	28.0	44.0	18.9	1.9	22.0	395.0	0.1		
12/11/13																																							
11/02/14																																							
13/05/14																																							
12/08/14																																							
10/11/14																																							
9/02/15	127.0	8.5	0.6	0.0	77.0	4.8	0.0	39.0	40.0	0.0	0.0	0.0	510.0	0.0	3.6	0.3	23.2	0.0	9.4	0.3	0.0	0.1	0.0	0.1	2.3	6.2		0.8	5.0	-22.0	32.0	64.0	24.7	2.2	12.0	147.0	0.1		
11/05/15	53.0	8.9	0.5	0.0	32.0	6.6	0.0	20.0	30.0	0.0	0.0	0.0	320.0	0.0	3.9	0.1	24.2	0.0	4.8	0.2	0.0	0.0	0.0	0.0	1.7	5.8		0.4	5.0	37.0	25.0	39.0	21.9	1.7	15.0	212.0	0.1		
11/08/15																																							
10/11/15	87.0	10.9	0.3	0.1	87.0	3.3	0.0	24.0	33.0	0.0	0.0	0.0	334.0	0.0	2.8	0.2	35.9	0.0	7.4	0.3	0.0	0.0	0.0	0.0	1.7	5.9		0.4	5.0	-15.0	28.0	48.0	22.0	1.7	10.5	191.0	0.1		
9/05/16																																							
7/11/16																																							
7/02/17	135.0		0.5		135.0	3.6		44.4	35.0				518.6		4.6	0.3			9.5			0.0	0.0	0.0	1.5	6.2		0.3	5.0	48.8	33.7	50.6	26.9	1.5	9.8	211.8			
8/05/17	115.0	8.9	0.5	0.0	115.0	3.6	0.0	35.7	36.0	0.0	0.0	0.0	455.1	0.0	3.8	0.2	24.4	0.0	8.2	0.3	0.0	0.0	0.0	0.1	1.4	5.9		0.3	5.0	83.7	34.8	58.6	22.5	1.4	11.2	155.9	0.0		
8/08/17	84.3		0.6		84.0	3.0		27.1	42.5				372.6		3.6	0.1			5.7			0.0	0.0	0.0	1.8	5.8		0.4	5.0	169.5	28.8	32.8	19.8	1.7	16.6	199.7			
7/11/17	145.2		0.6		145.0	2.7		50.1	40.0				580.1		2.9	0.2			12.4			0.0	0.0	0.0	1.3	6.0		0.3	5.0	60.2	45.9	70.9	22.2	1.3	10.0	162.6			
2017 Min	84.3	8.9	0.5	0.0	84.0	2.7	0.0	27.1	35.0	0.0	0.0	0.0	372.6	0.0	2.9	0.1	24.4	0.0	5.7	0.3	0.0	0.0	0.0	1.3	5.8		0.3	5.0	48.8	28.8	32.8	19.8	1.3	9.8	155.9	0.0			
2017 Max	145.2	8.9	0.6	0.0	145.0	3.6	0.0	50.1	42.5	0.0	0.0	0.0	580.1	0.0	4.6	0.3	24.4	0.0	12.4	0.3	0.0	0.0	0.0	0.1	1.8	6.2		0.4	5.0	169.5	45.9	70.9	26.9	1.7	16.6	211.8	0.0		
2017 Mean	119.9	8.9	0.6	0.0	119.8	3.2	0.0	39.3	38.4	0.0	0.0	0.0	481.6	0.0	3.7	0.2	24.4	0.0	9.0	0.3	0.0	0.0	0.0	0.0	1.5	6.0		0.3	5.0	90.6	35.8	53.2	22.9	1.5	11.9	182.5	0.0		

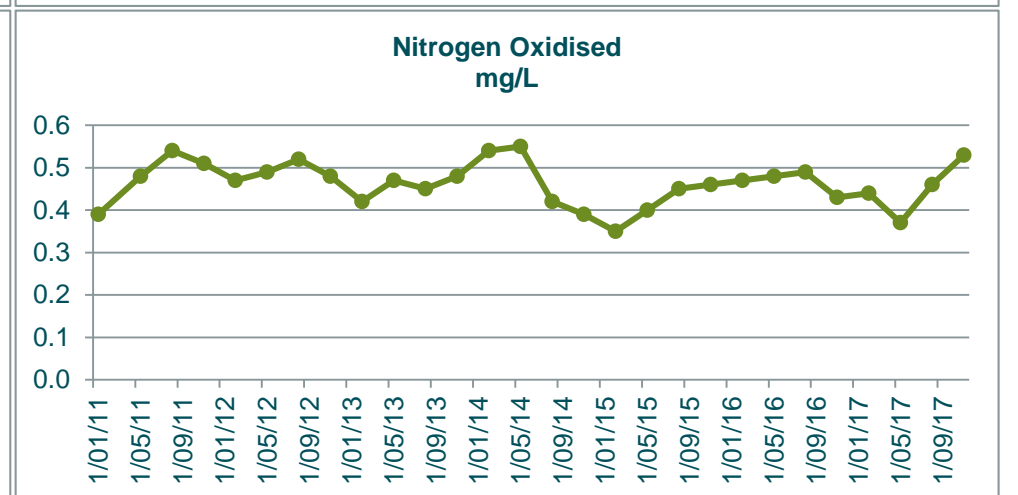
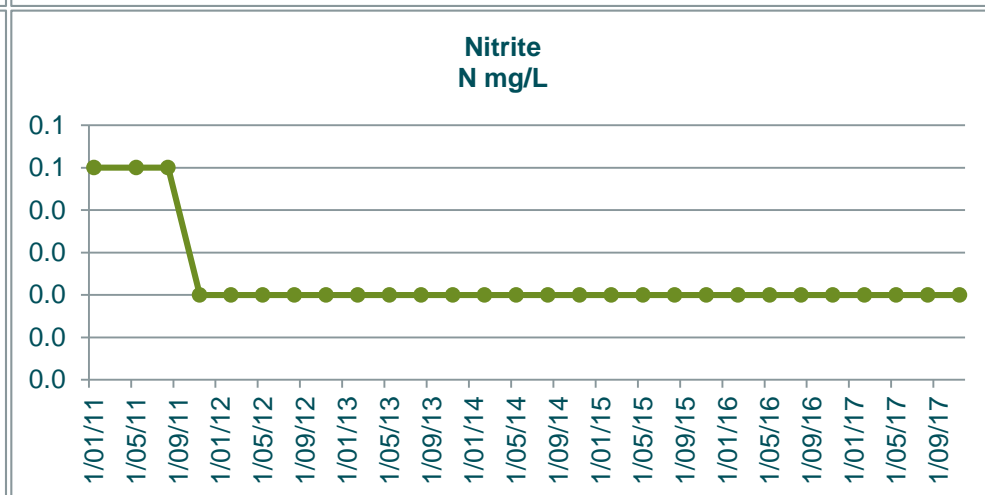
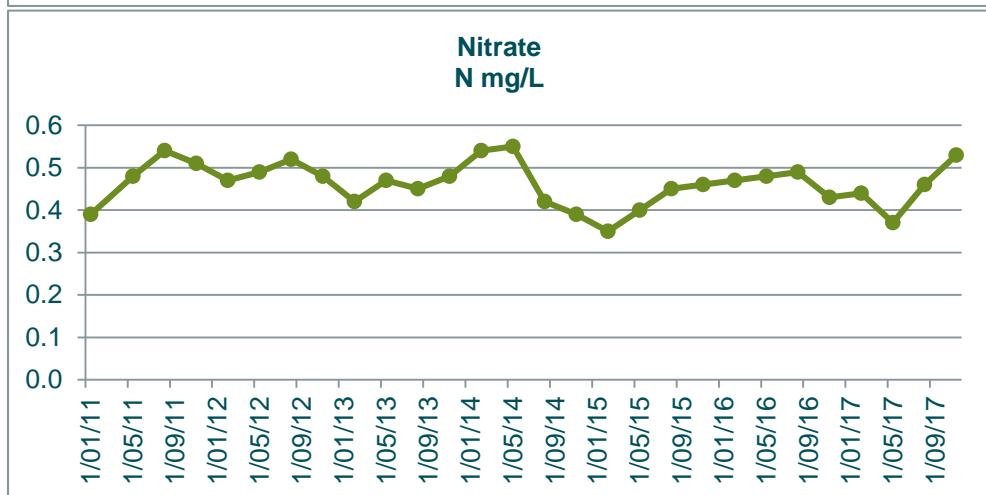
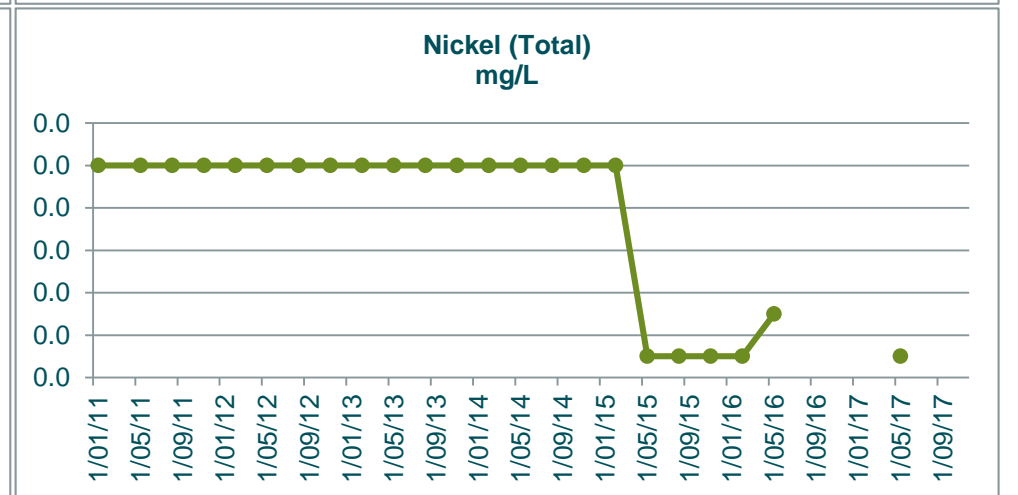
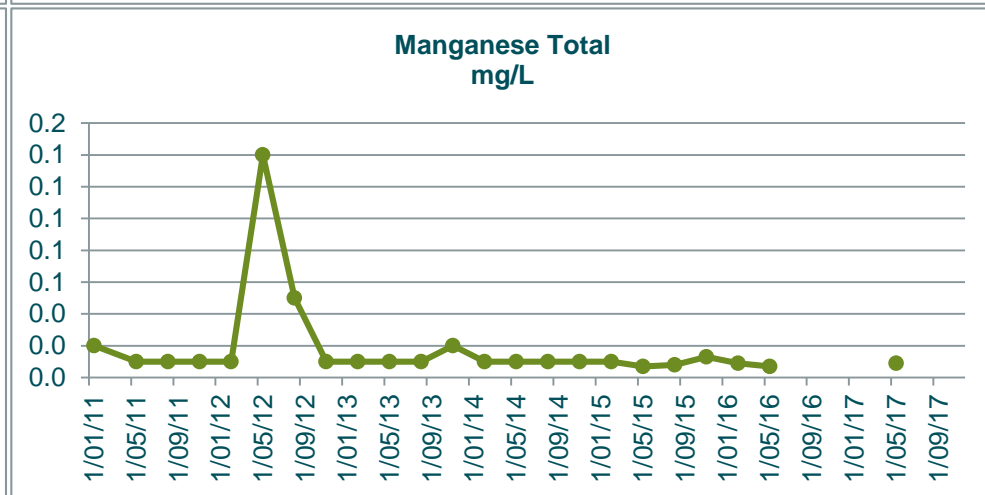
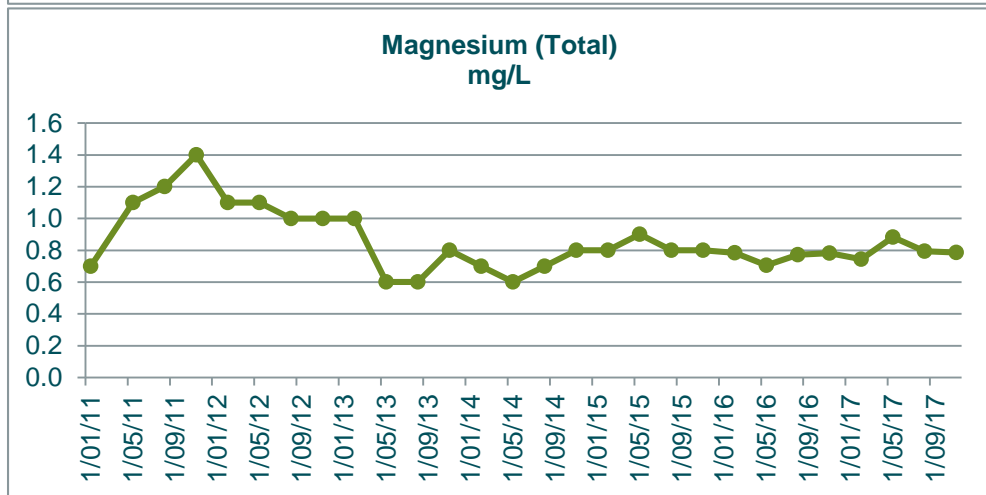
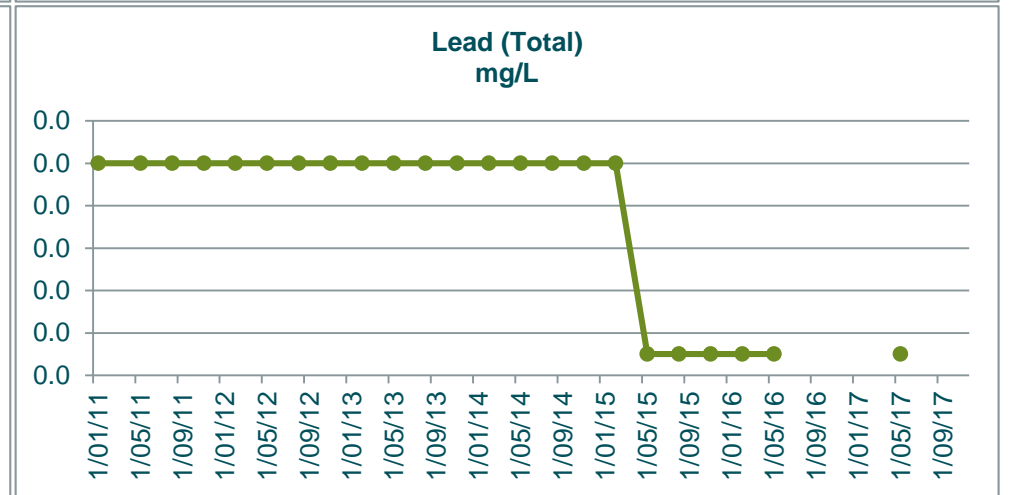
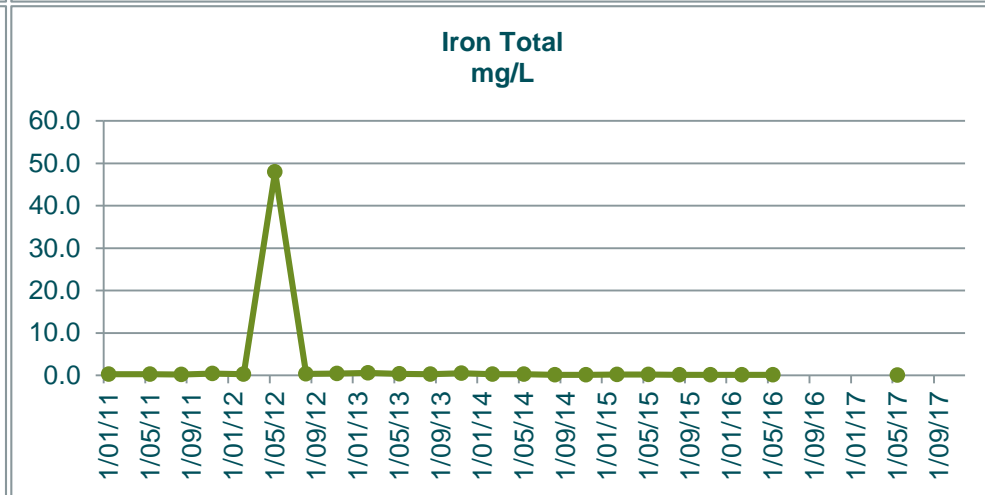
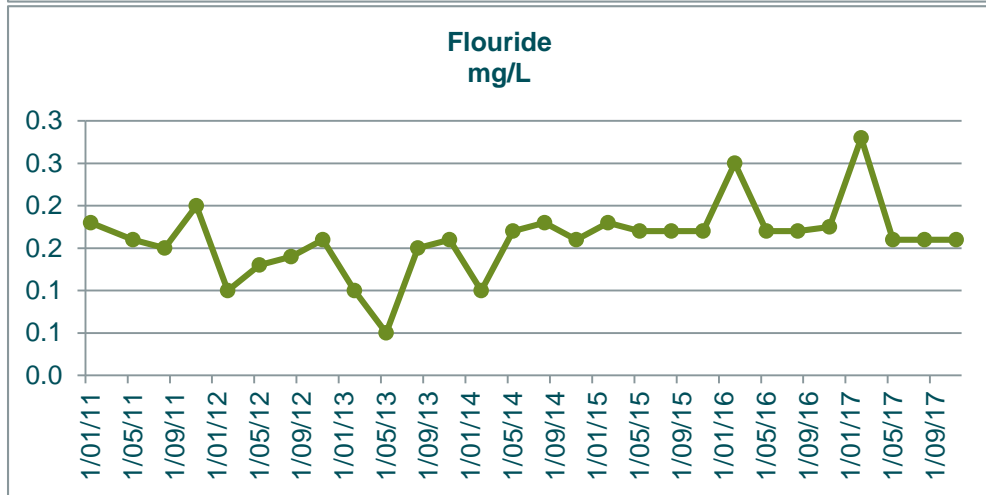
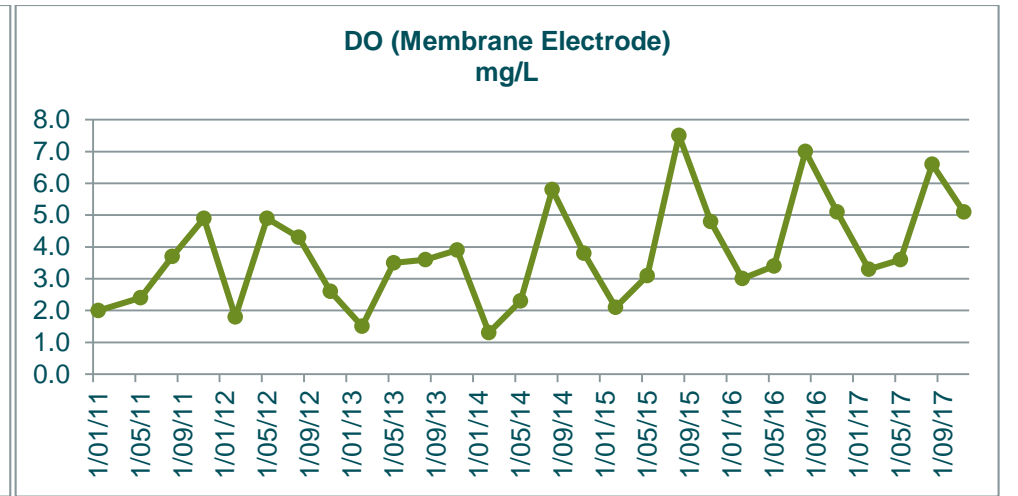
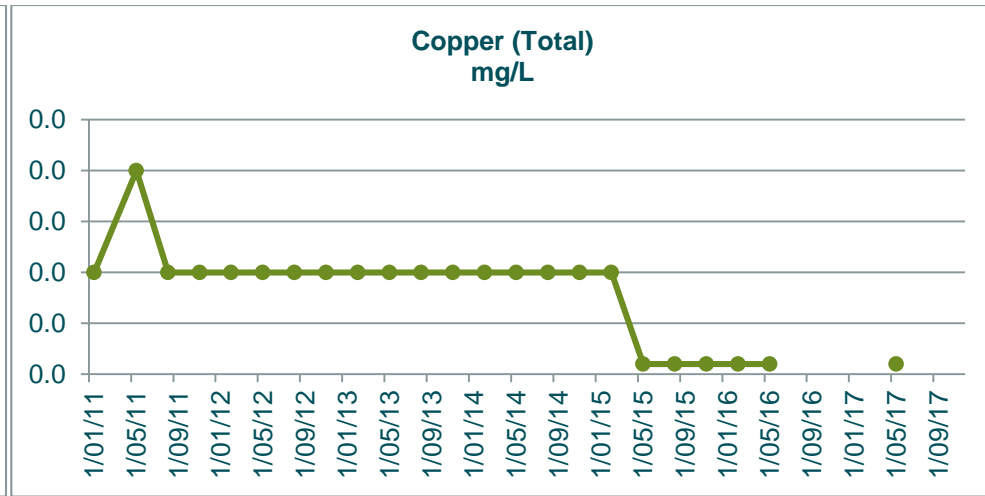
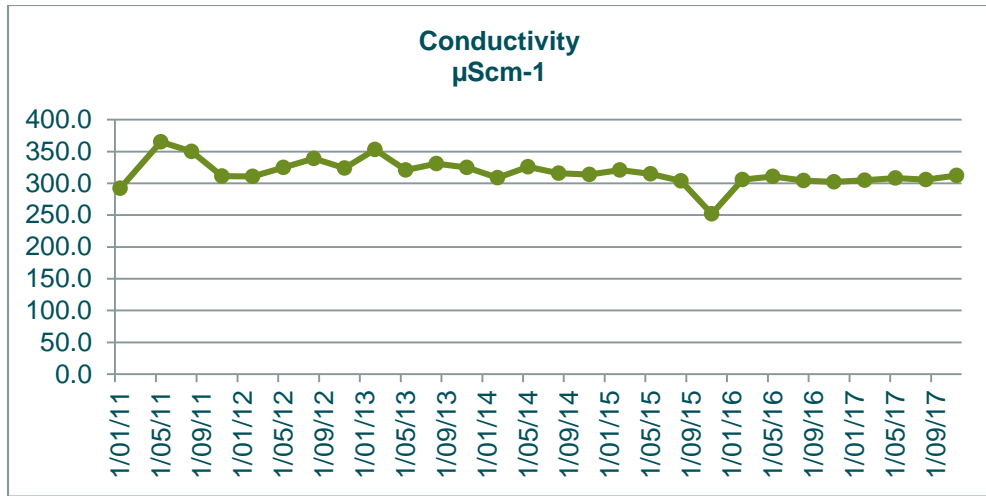


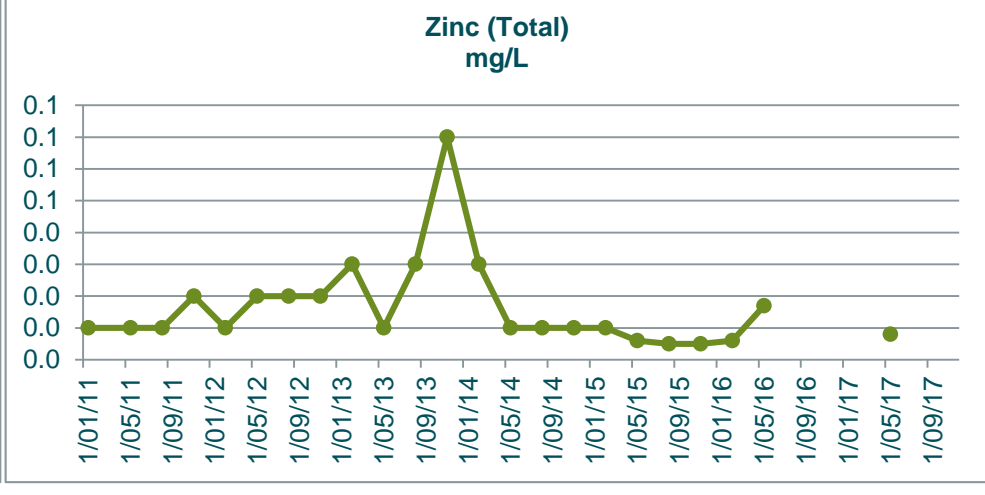
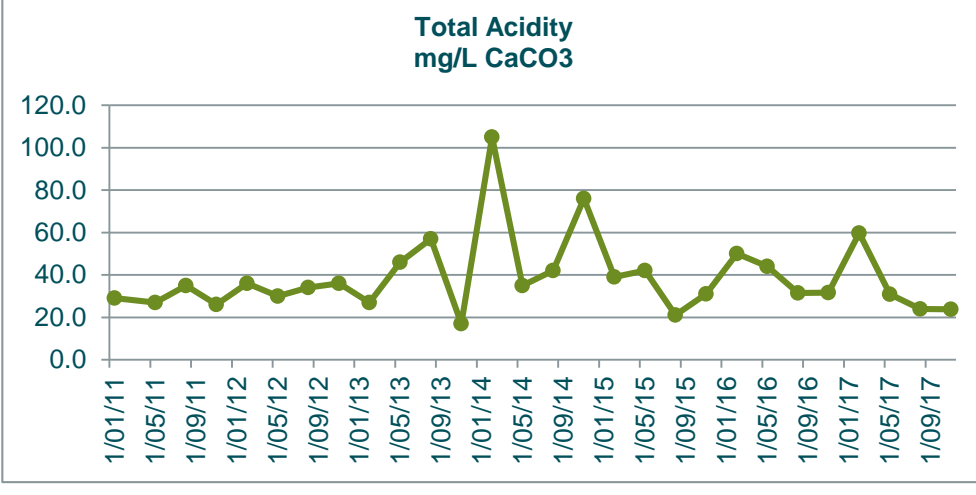
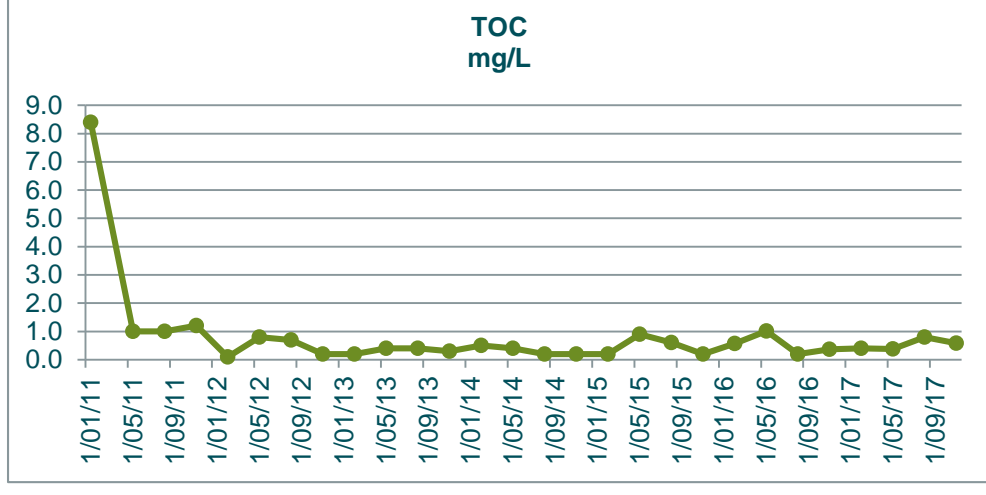
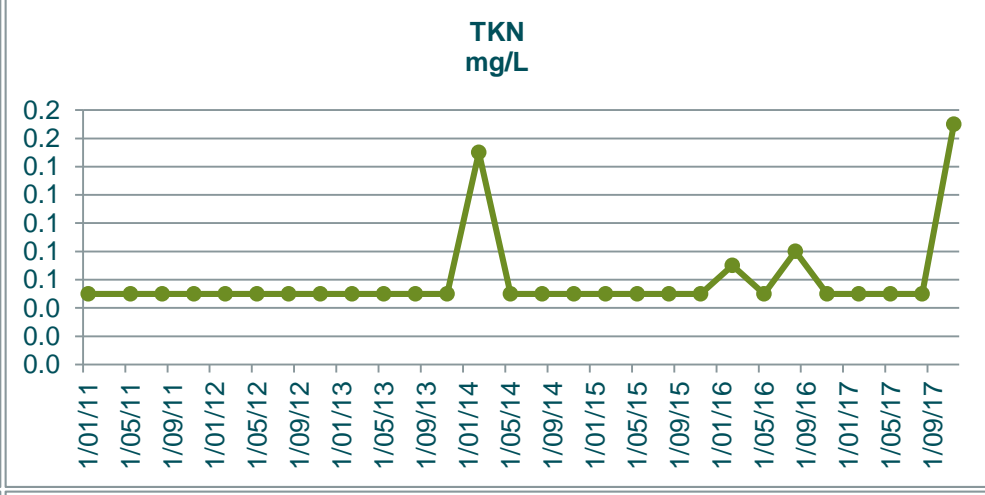
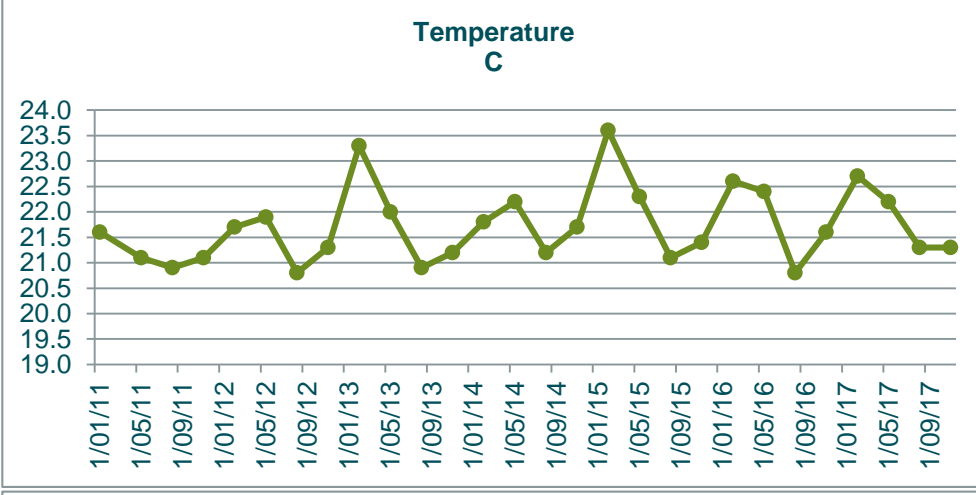
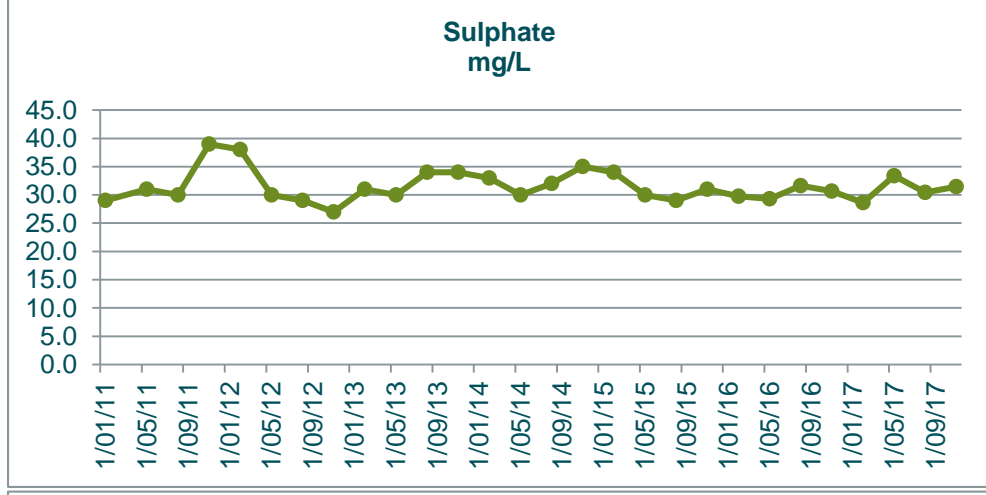
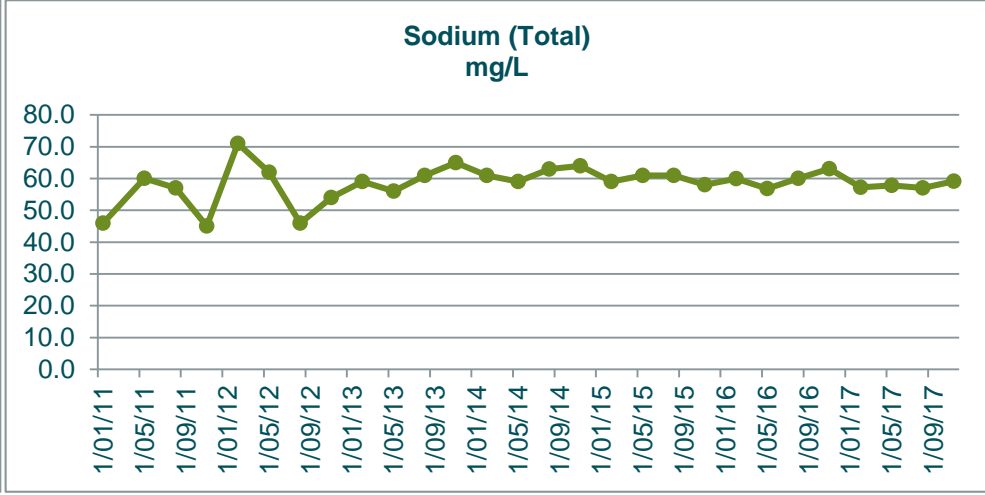
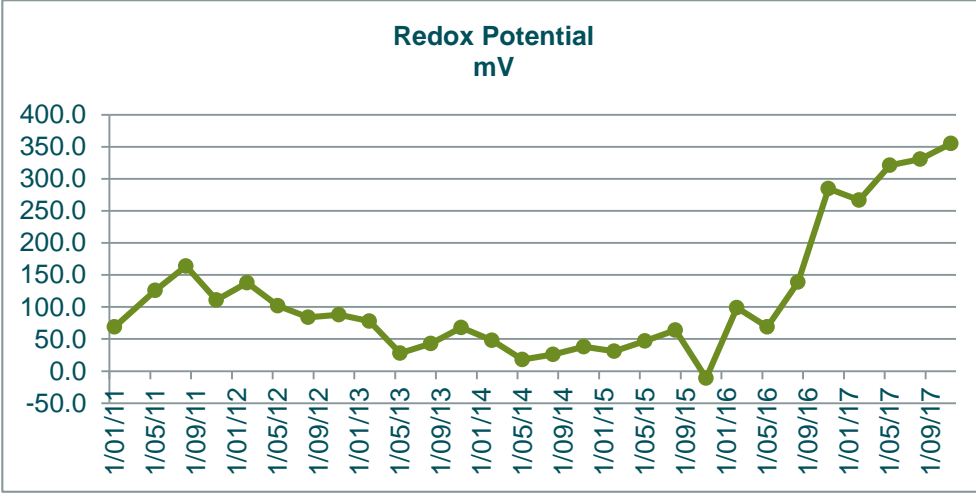
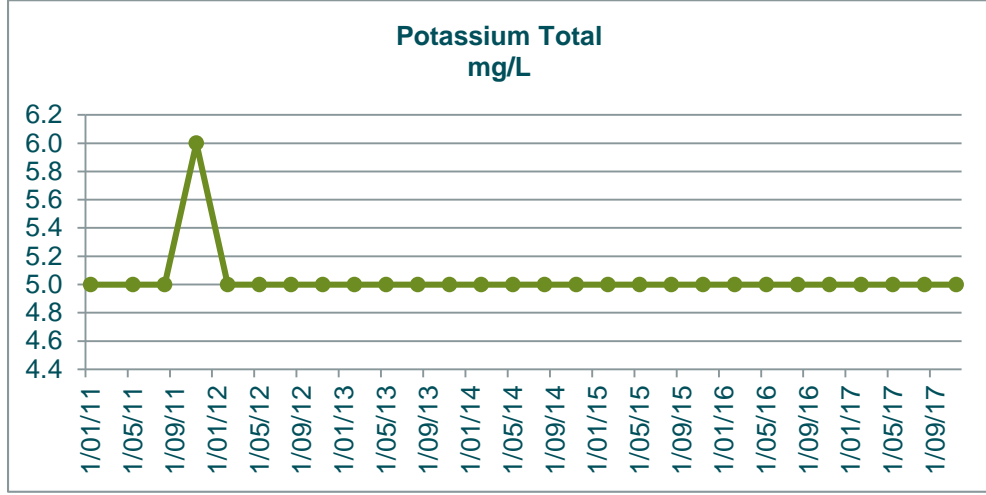
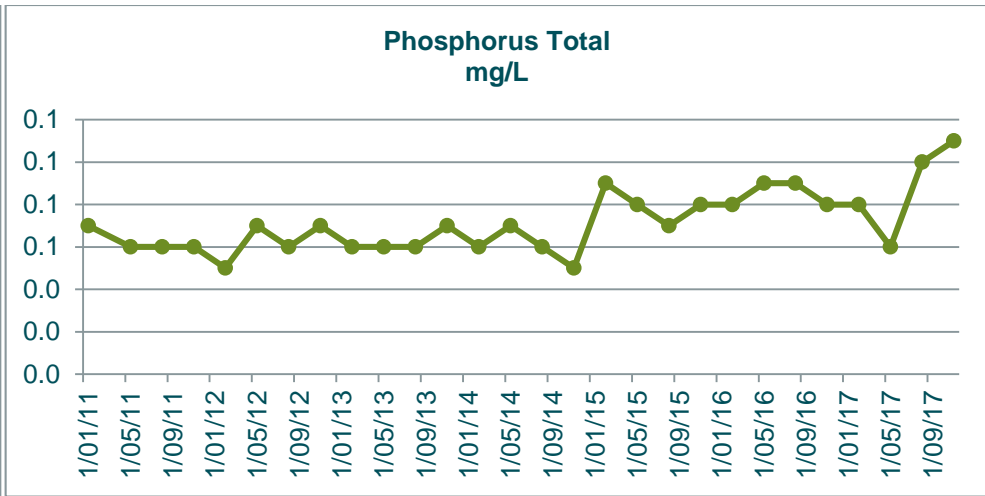
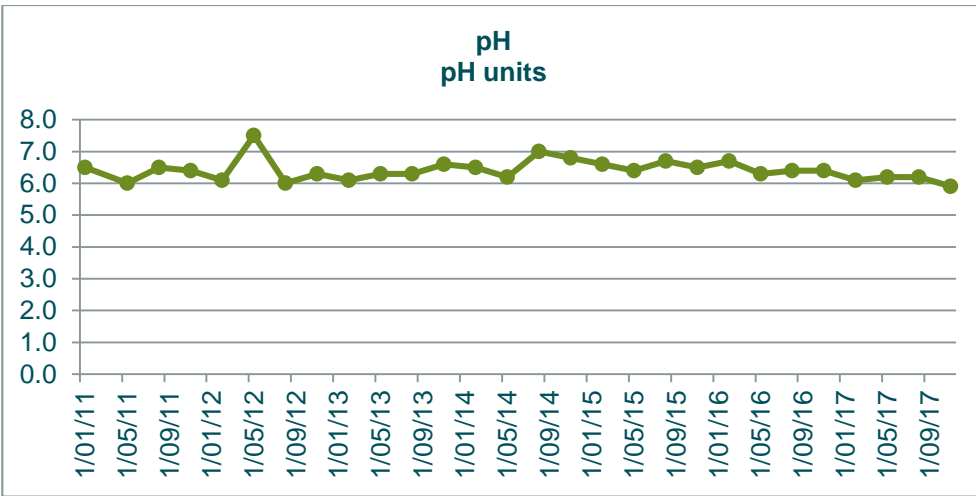
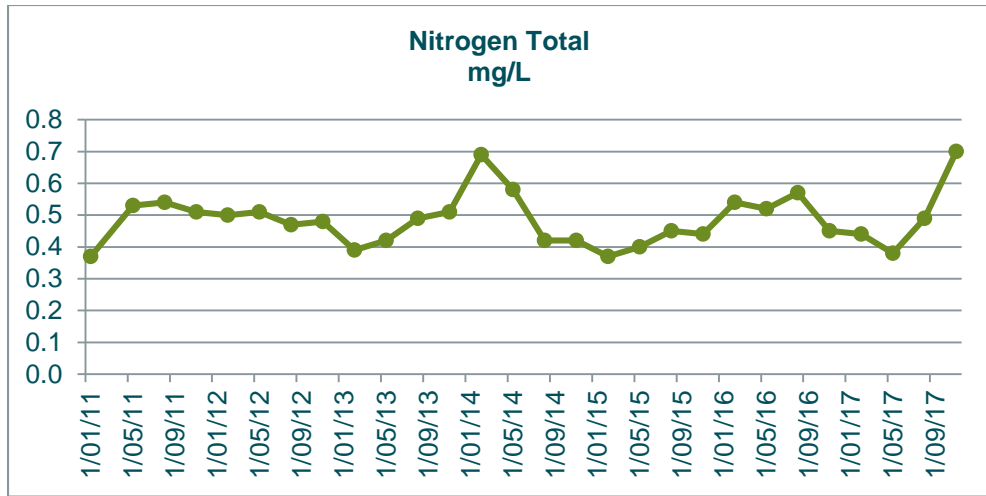




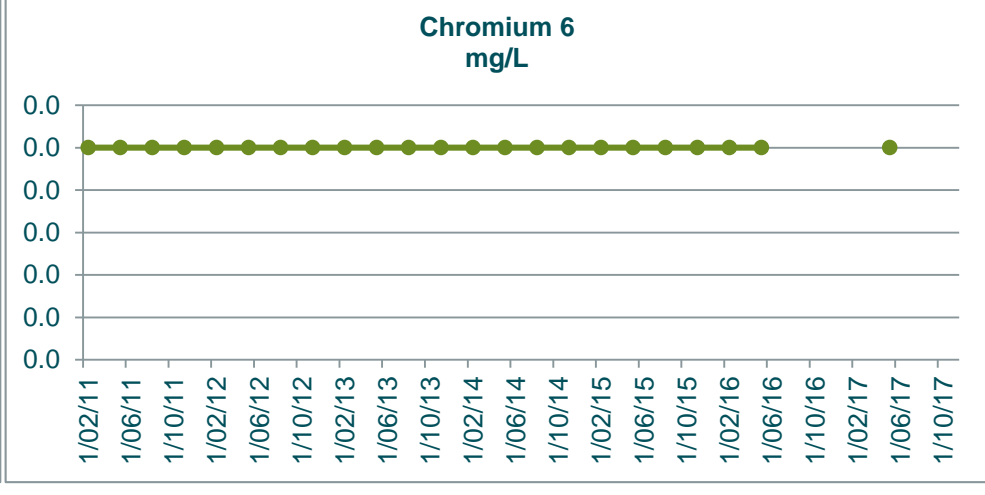
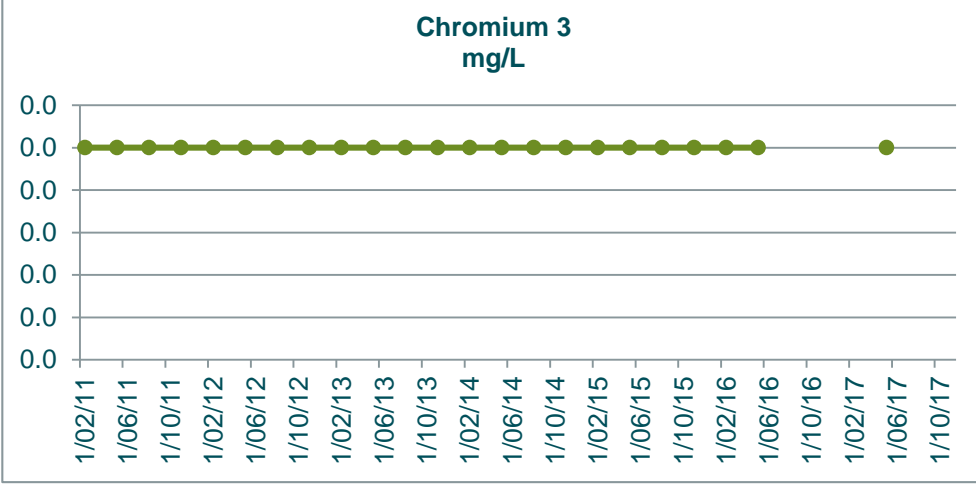
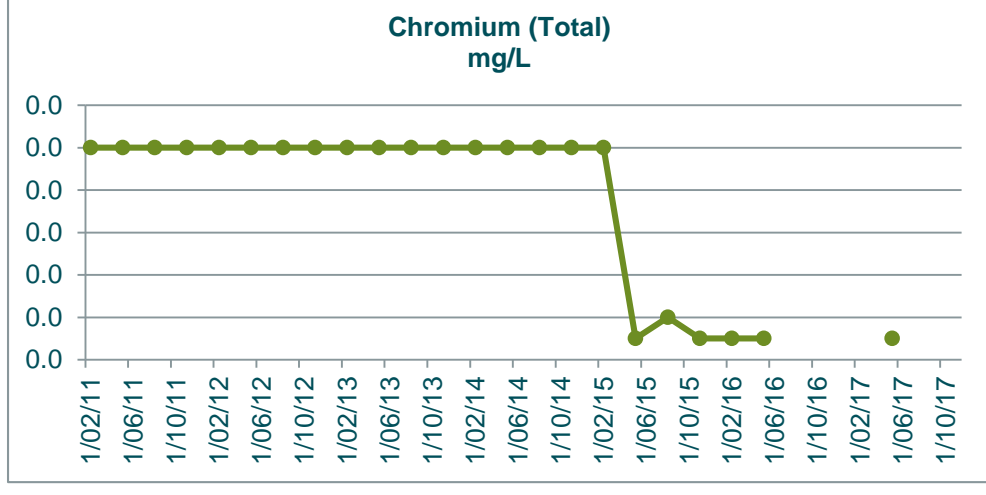
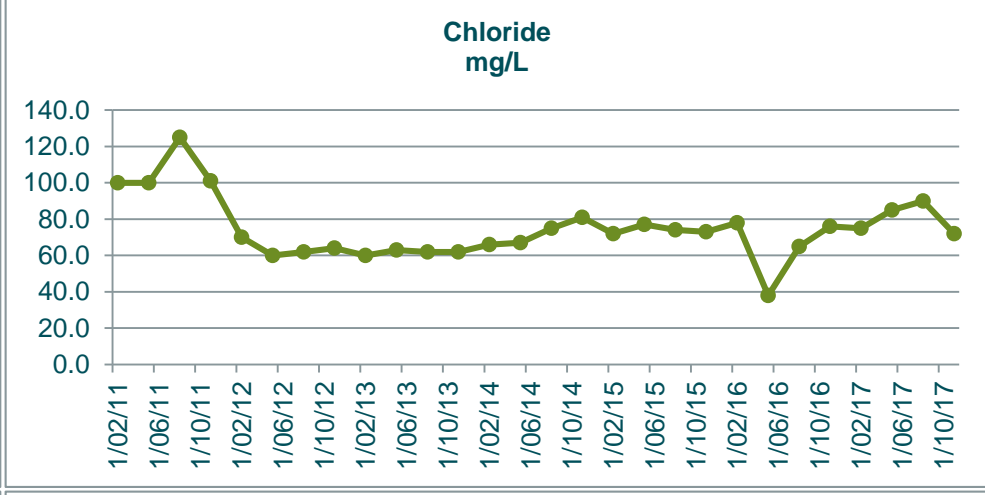
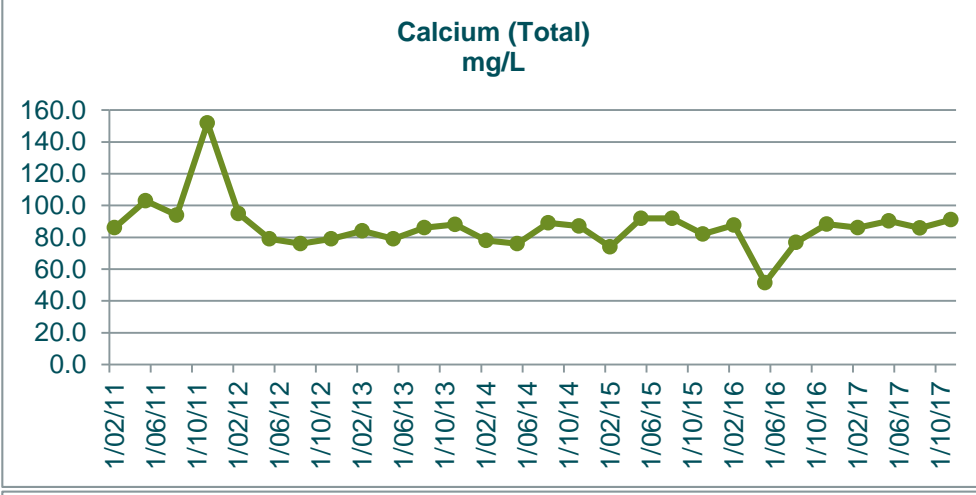
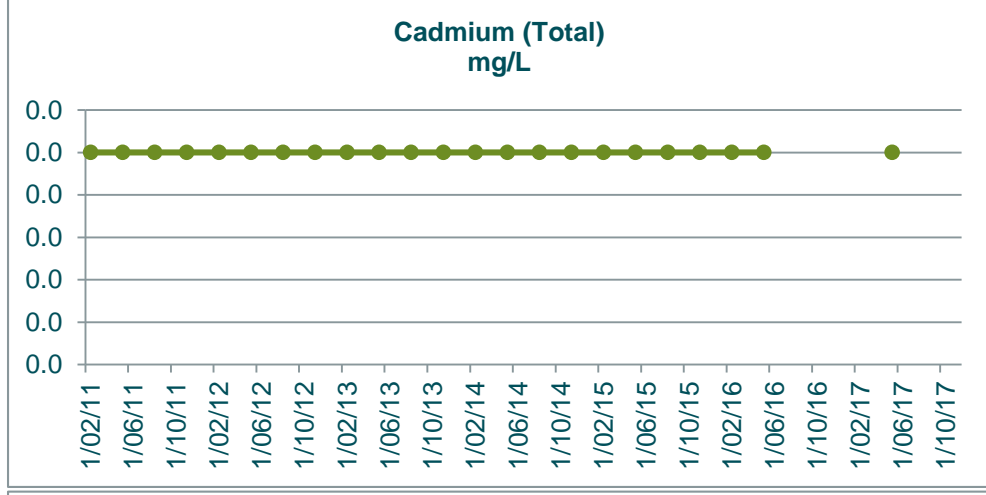
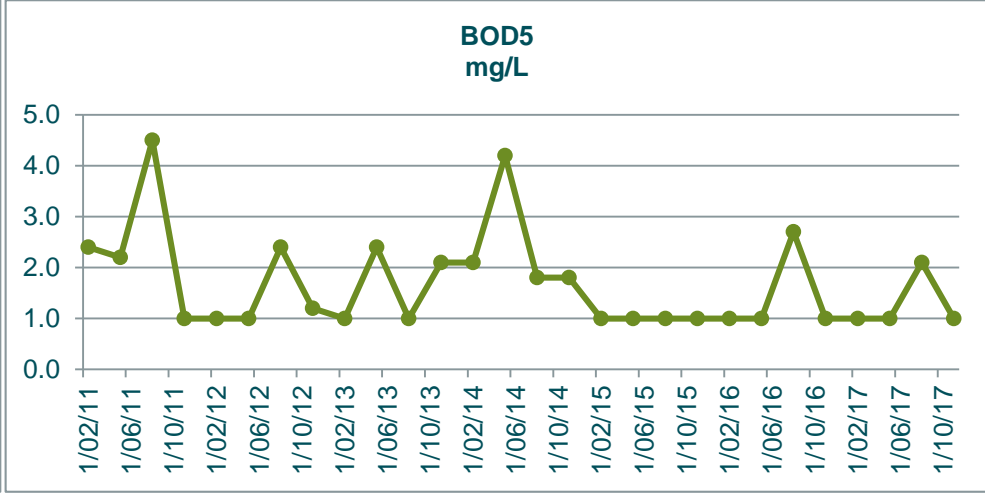
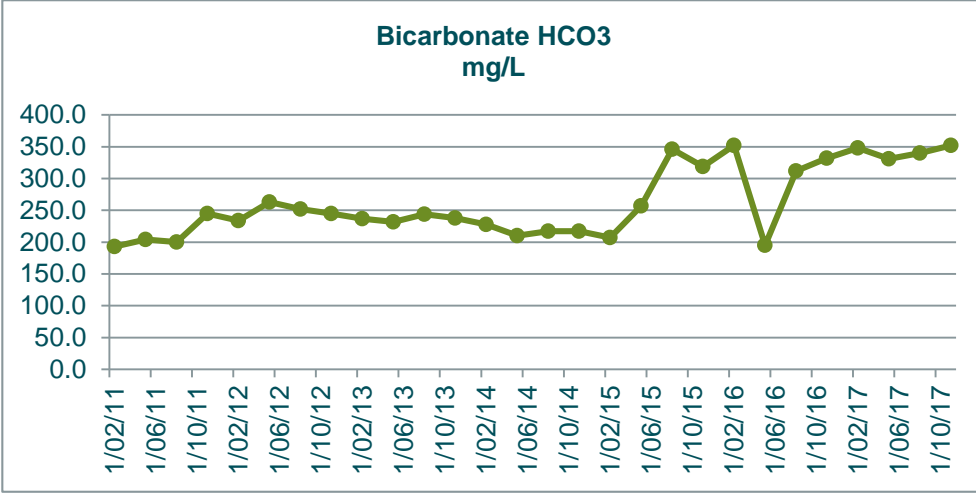
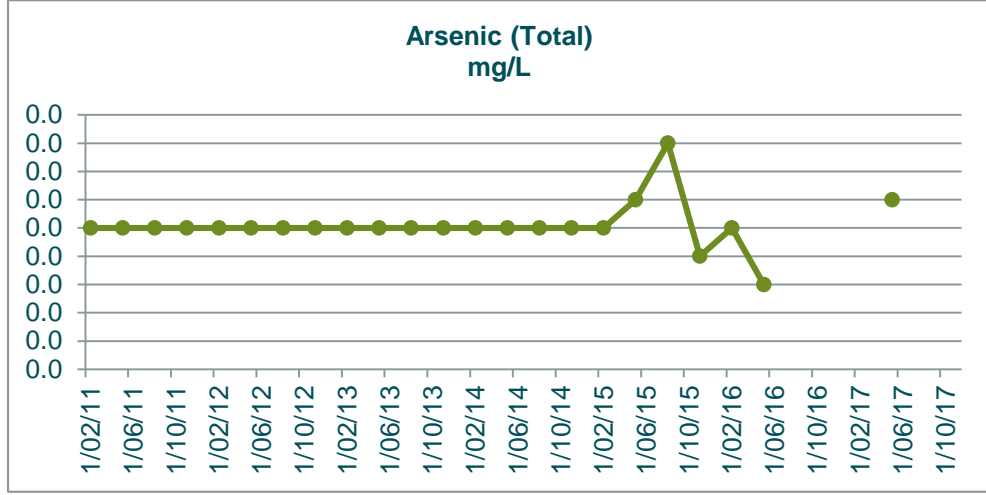
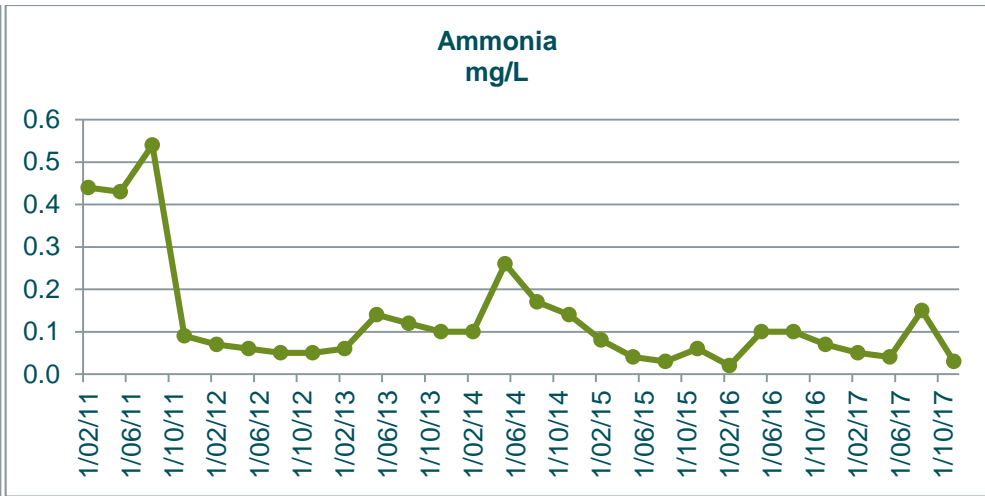
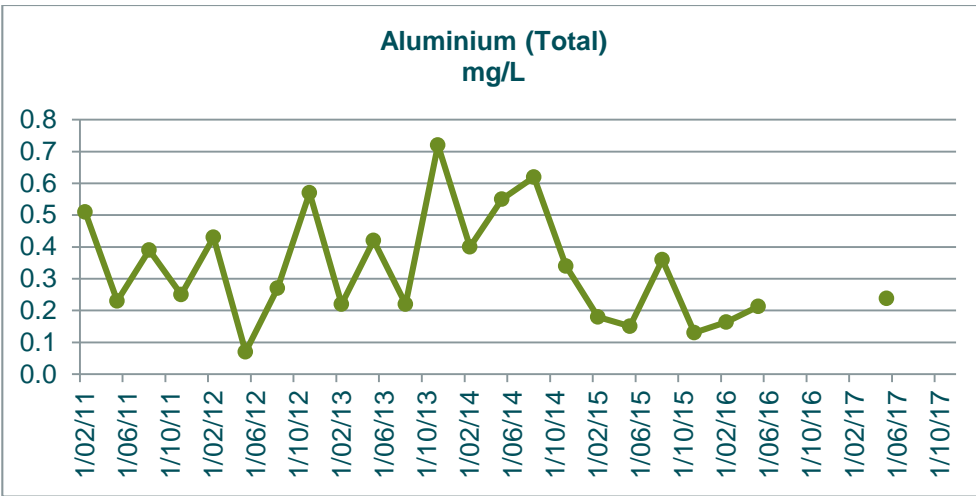
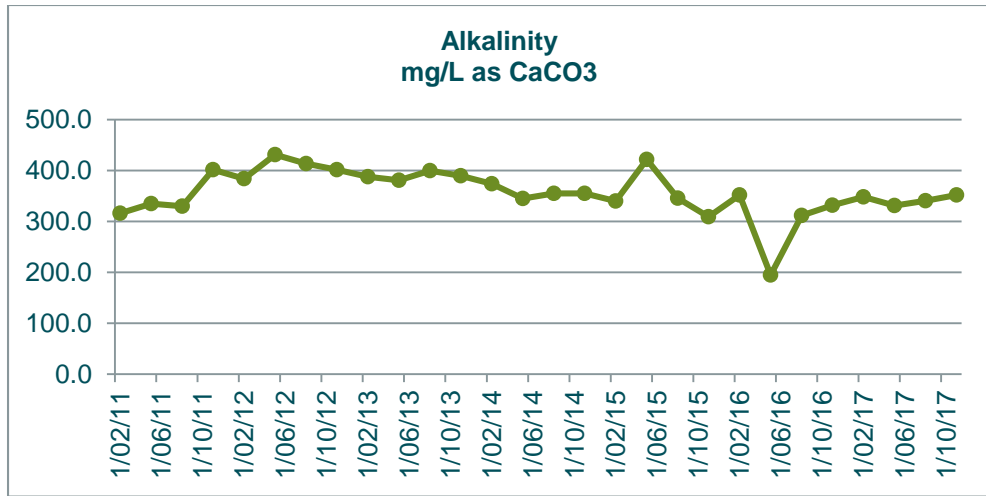
GW19	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L
31/01/11	41.0	0.1	0.1	0.0	25.0	1.0	0.0	1.0	42.0	0.0	0.0	0.0	292.0	0.0	2.0	0.2	0.3	0.0	0.7	0.0	0.0	0.4	0.1	0.4	0.4	6.5		0.1	5.0	69.0	46.0	29.0	21.6	0.1	8.4	29.0	0.0
10/05/11	45.0	0.1	0.1	0.0	27.0	1.2	0.0	1.1	65.0	0.0	0.0	0.0	365.0	0.0	2.4	0.2	0.2	0.0	1.1	0.0	0.0	0.5	0.1	0.5	0.5	6.0		0.1	5.0	126.0	60.0	31.0	21.1	0.1	1.0	27.0	0.0
9/08/11	43.0	0.2	0.1	0.0	26.0	1.0	0.0	1.3	42.0	0.0	0.0	0.0	350.0	0.0	3.7	0.2	0.2	0.0	1.2	0.0	0.0	0.5	0.1	0.5	0.5	6.5		0.1	5.0	164.0	57.0	30.0	20.9	0.1	1.0	35.0	0.0
8/11/11	49.0	0.3	0.0	0.0	30.0	1.0	0.0	1.6	50.0	0.0	0.0	0.0	311.4	0.0	4.9	0.2	0.4	0.0	1.4	0.0	0.0	0.5	0.0	0.5	0.5	6.4		0.1	6.0	111.2	45.0	39.0	21.1	0.1	1.2	26.0	0.0
6/02/12	43.0	0.2	0.0	0.0	26.0	1.0	0.0	1.3	42.0	0.0	0.0	0.0	311.0	0.0	1.8	0.1	0.2	0.0	1.1	0.0	0.0	0.5	0.0	0.5	0.5	6.1		0.1	5.0	138.0	71.0	38.0	21.7	0.1	0.1	36.0	0.0
8/05/12	43.0	0.6	0.0	0.0	26.0	1.8	0.0	1.3	42.0	0.0	0.0	0.0	325.0	0.0	4.9	0.1	48.0	0.0	1.1	0.1	0.0	0.5	0.0	0.5	0.5	7.5		0.1	5.0	102.0	62.0	30.0	21.9	0.1	0.8	30.0	0.0
6/08/12	43.0	0.2	0.0	0.0	26.0	2.1	0.0	1.4	40.0	0.0	0.0	0.0	339.0	0.0	4.3	0.1	0.4	0.0	1.0	0.1	0.0	0.5	0.0	0.5	0.5	6.0		0.1	5.0	84.0	46.0	29.0	20.8	0.1	0.7	34.0	0.0
13/11/12	42.0	0.3	0.0	0.0	26.0	1.0	0.0	1.2	42.0	0.0	0.0	0.0	324.0	0.0	2.6	0.2	0.4	0.0	1.0	0.0	0.0	0.5	0.0	0.5	0.5	6.3		0.1	5.0	88.0	54.0	27.0	21.3	0.1	0.2	36.0	0.0
13/02/13	46.0	0.5	0.0	0.0	28.0	1.0	0.0	1.3	44.0	0.0	0.0	0.0	353.0	0.0	1.5	0.1	0.6	0.0	1.0	0.0	0.0	0.4	0.0	0.4	0.4	6.1		0.1	5.0	78.0	59.0	31.0	23.3	0.1	0.2	27.0	0.0
14/05/13	41.0	0.1	0.0	0.0	25.0	1.0	0.0	1.0	40.0	0.0	0.0	0.0	321.0	0.0	3.5	0.1	0.3	0.0	0.6	0.0	0.0	0.5	0.0	0.5	0.4	6.3		0.1	5.0	28.0	56.0	30.0	22.0	0.1	0.4	46.0	0.0
6/08/13	44.0	0.1	0.0	0.0	27.0	1.0	0.0	1.0	42.0	0.0	0.0	0.0	331.0	0.0	3.6	0.2	0.3	0.0	0.6	0.0	0.0	0.5	0.0	0.5	0.5	6.3		0.1	5.0	43.0	61.0	34.0	20.9	0.1	0.4	57.0	0.0
12/11/13	43.0	0.3	0.0	0.0	26.0	1.0	0.0	1.2	44.0	0.0	0.0	0.0	325.0	0.0	3.9	0.2	0.5	0.0	0.8	0.0	0.0	0.5	0.0	0.5	0.5	6.6		0.1	5.0	68.0	65.0	34.0	21.2	0.1	0.3	17.0	0.1
11/02/14	44.0	0.2	0.1	0.0	27.0	1.0	0.0	1.0	43.0	0.0	0.0	0.0	309.0	0.0	1.3	0.1	0.2	0.0	0.7	0.0	0.0	0.5	0.0	0.5	0.7	6.5		0.1	5.0	48.0	61.0	33.0	21.8	0.2	0.5	105.0	0.0
13/05/14	42.0	0.2	0.0	0.0	26.0	1.0	0.0	0.9	45.0	0.0	0.0	0.0	326.0	0.0	2.3	0.2	0.3	0.0	0.6	0.0	0.0	0.6	0.0	0.6	0.6	6.2		0.1	5.0	18.0	59.0	30.0	22.2	0.1	0.4	35.0	0.0
12/08/14	43.0	0.1	0.0	0.0	26.0	1.8	0.0	1.1	43.0	0.0	0.0	0.0	316.0	0.0	5.8	0.2	0.1	0.0	0.7	0.0	0.0	0.4	0.0	0.4	0.4	7.0		0.1	5.0	26.0	63.0	32.0	21.2	0.1	0.2	42.0	0.0
10/11/14	44.0	0.1	0.0	0.0	27.0	1.0	0.0	1.0	45.0	0.0	0.0	0.0	314.0	0.0	3.8	0.2	0.1	0.0	0.8	0.0	0.0	0.4	0.0	0.4	0.4	6.8		0.1	5.0	38.0	64.0	35.0	21.7	0.1	0.2	76.0	0.0
9/02/15	46.0	0.1	0.0	0.0	28.0	1.0	0.0	1.0	44.0	0.0	0.0	0.0	321.0	0.0	2.1	0.2	0.2	0.0	0.8	0.0	0.0	0.4	0.0	0.4	0.4	6.6		0.1	5.0	31.0	59.0	34.0	23.6	0.1	0.2	39.0	0.0
11/05/15	43.0	0.1	0.0	0.0	26.0	1.0	0.0	1.1	41.0	0.0	0.0	0.0	315.0	0.0	3.1	0.2	0.2	0.0	0.9	0.0	0.0	0.4	0.0	0.4	0.4	6.4		0.1	5.0	47.0	61.0	30.0	22.3	0.1	0.9	42.0	0.0
11/08/15	44.0	0.0	0.0	0.0	44.0	1.0	0.0	1.1	40.0	0.0	0.0	0.0	304.0	0.0	7.5	0.2	0.1	0.0	0.8	0.0	0.0	0.5	0.0	0.5	0.5	6.7		0.1	5.0	64.0	61.0	29.0	21.1	0.1	0.6	21.0	0.0
10/11/15	44.0	0.1	0.0	0.0	44.0	1.0	0.0	1.0	44.0	0.0	0.0	0.0	252.0	0.0	4.8	0.2	0.1	0.0	0.8	0.0	0.0	0.5	0.0	0.5	0.4	6.5		0.1	5.0	-11.0	58.0	31.0	21.4	0.1	0.2	31.0	0.0
8/02/16	44.0	0.1	0.0	0.0	44.0	1.0	0.0	1.1	41.0	0.0	0.0	0.0	306.0	0.0	3.0	0.3	0.1	0.0	0.8	0.0	0.0	0.5	0.0	0.5	0.5	6.7		0.1	5.0	99.0	60.0	29.8	22.6	0.1	0.6	50.0	0.0
9/05/16	44.0	0.0	0.0	0.0	44.0	1.0	0.0	1.0	42.0	0.0	0.0	0.0	311.0	0.0	3.4	0.2	0.1	0.0	0.7	0.0	0.0	0.5	0.0	0.5	0.5	6.3		0.1	5.0	69.0	56.8	29.3	22.4	0.1	1.0	44.0	0.0
9/08/16	44.5		0.0		44.0	1.0		1.1	41.0				304.4		7.0	0.2			0.8			0.5	0.0	0.5	0.6	6.4		0.1	5.0	139.0	60.0	31.6	20.8	0.1	0.2	31.5	
7/11/16	45.7		0.0		46.0	1.0		1.1	42.0				302.2		5.1	0.2			0.8			0.4	0.0	0.4	0.5	6.4		0.1	5.0	285.0	63.1	30.7	21.6	0.1	0.4	31.6	
7/02/17	45.3		0.0		45.0	1.0		1.0	42.0				304.8		3.3	0.3			0.7			0.4	0.0	0.4	0.4	6.1		0.1	5.0	266.7	57.2	28.6	22.7	0.1	0.4	59.7	
8/05/17	44.7	0.0	0.0	0.0	45.0	1.0	0.0	1.2	42.0	0.0	0.0	0.0	308.1	0.0	3.6	0.2	0.1	0.0	0.9	0.0	0.0	0.4	0.0	0.4	0.4	6.2		0.1	5.0	321.4	57.8	33.4	22.2	0.1	0.4	30.9	0.0
8/08/17	44.8		0.0		45.0	1.0		1.0	35.0				305.7		6.6	0.2			0.8			0.5	0.0	0.5	0.5	6.2		0.1	5.0	330.9	57.0	30.4	21.3	0.1	0.8	24.0	
7/11/17	45.4		0.0		45.0	1.0		1.1	41.5				312.2		5.1	0.2			0.8			0.5	0.0	0.5	0.7	5.9		0.1	5.0	355.4	59.2	31.4	21.3	0.2	0.6	23.8	
2017 Min	44.7	0.0	0.0	0.0	45.0	1.0	0.0	1.0	35.0	0.0	0.0	0.0	304.8	0.0	3.3	0.2	0.1	0.0	0.7	0.0	0.0	0.4	0.0	0.4	0.4	5.9		0.1	5.0	266.7	57.0	28.6	21.3	0.1	0.4	23.8	0.0
2017 Max	45.4	0.0	0.0	0.0	45.0	1.0	0.0	1.2	42.0	0.0	0.0	0.0	312.2	0.0	6.6	0.3	0.1	0.0	0.9	0.0	0.0	0.5	0.0	0.5	0.7	6.2		0.1	5.0	355.4	59.2	33.4	22.7	0.2	0.8	59.7	0.0
2017 Mean	45.1	0.0	0.0	0.0	45.0	1.0	0.0	1.1	40.1	0.0	0.0	0.0	307.7	0.0	4.7	0.2	0.1	0.0	0.8	0.0	0.0	0.5	0.0	0.5	0.5	6.1		0.1	5.0	318.6	57.8	31.0	21.9	0.1	0.5	34.6	0.0

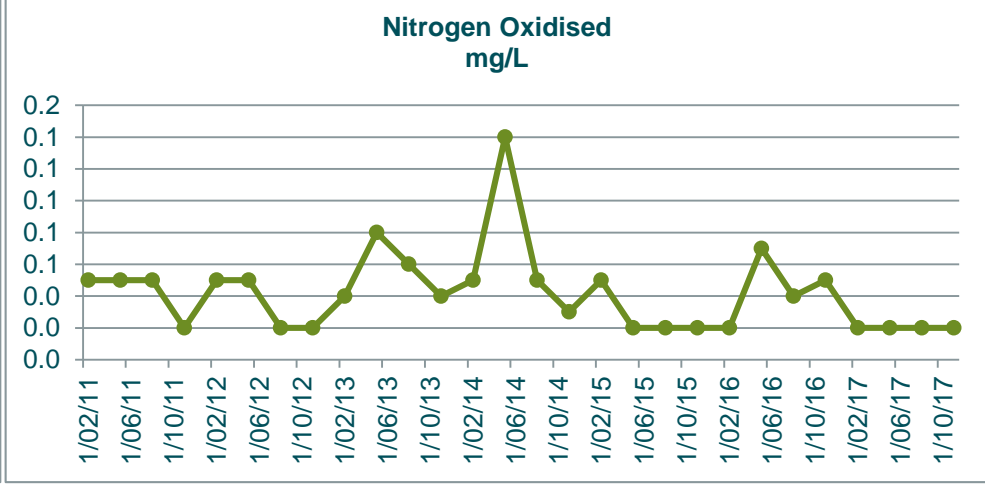
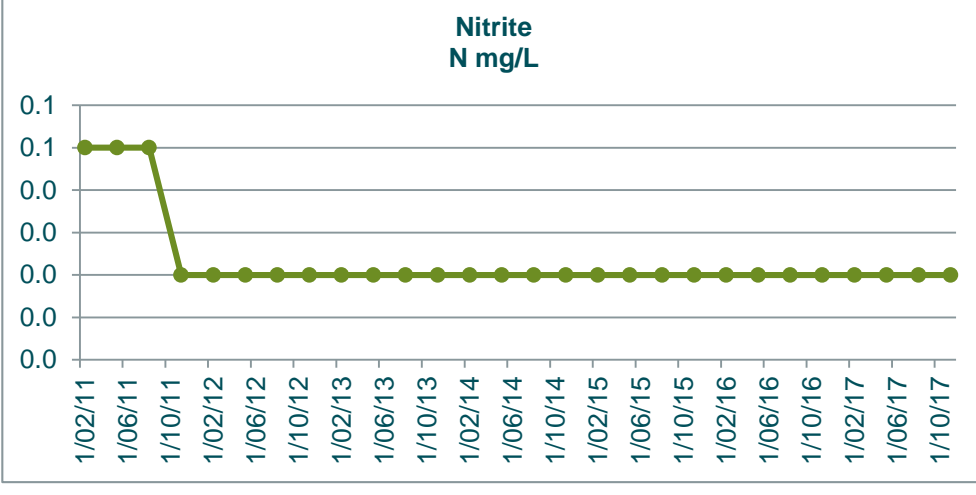
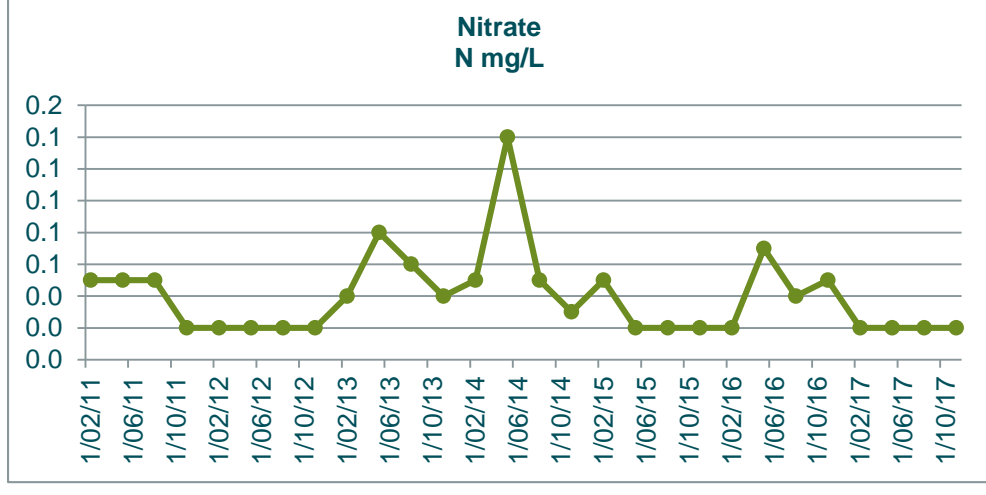
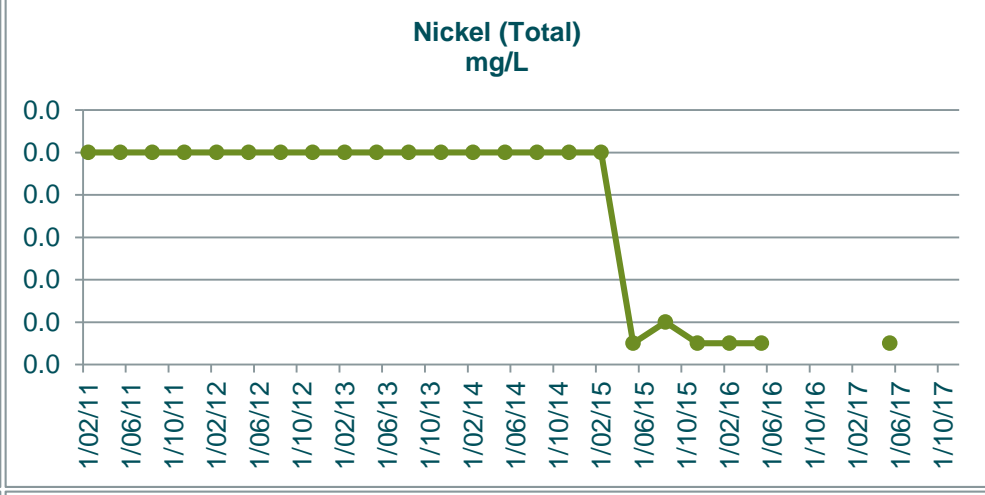
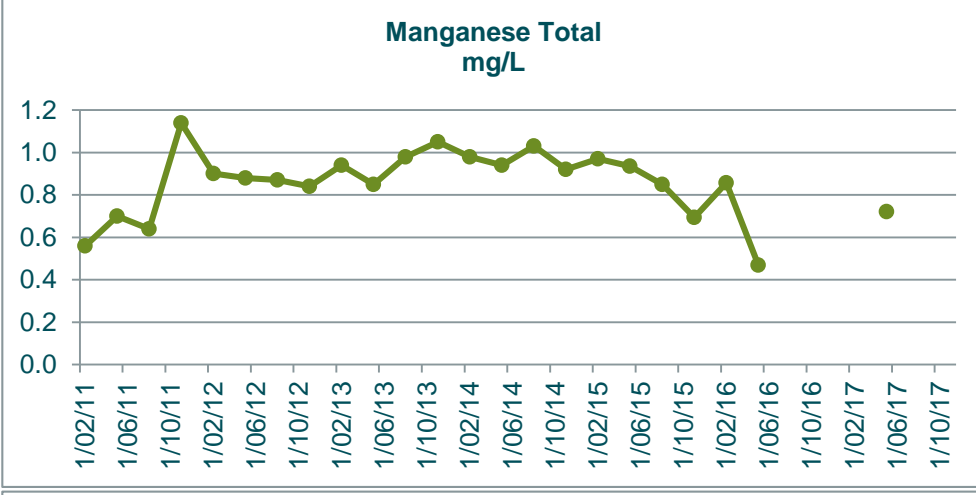
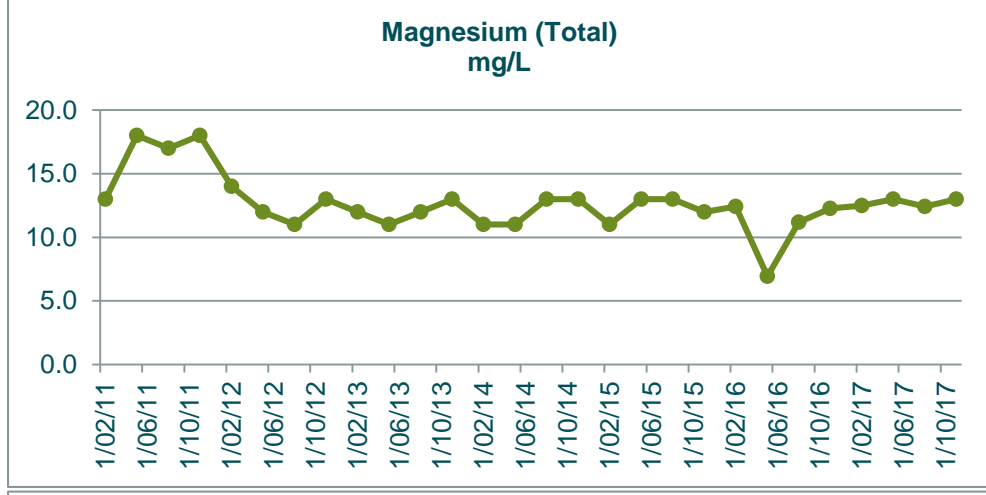
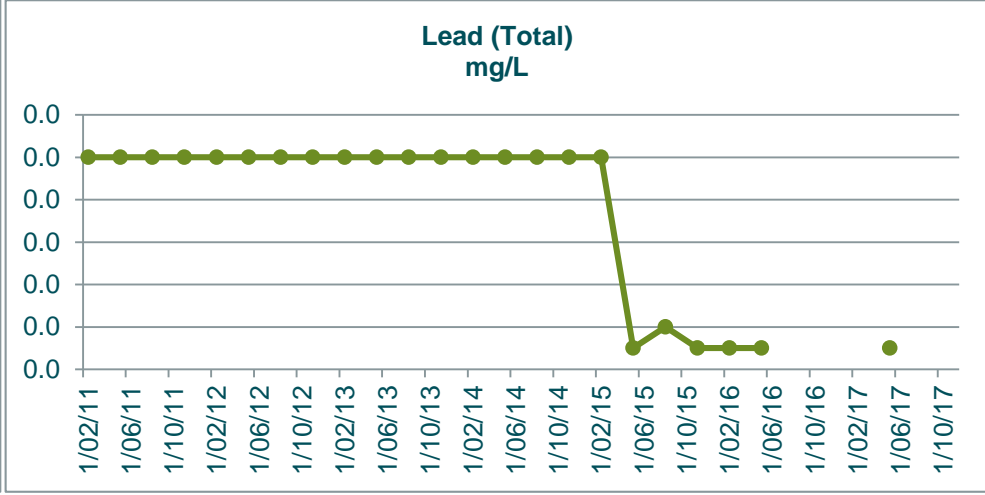
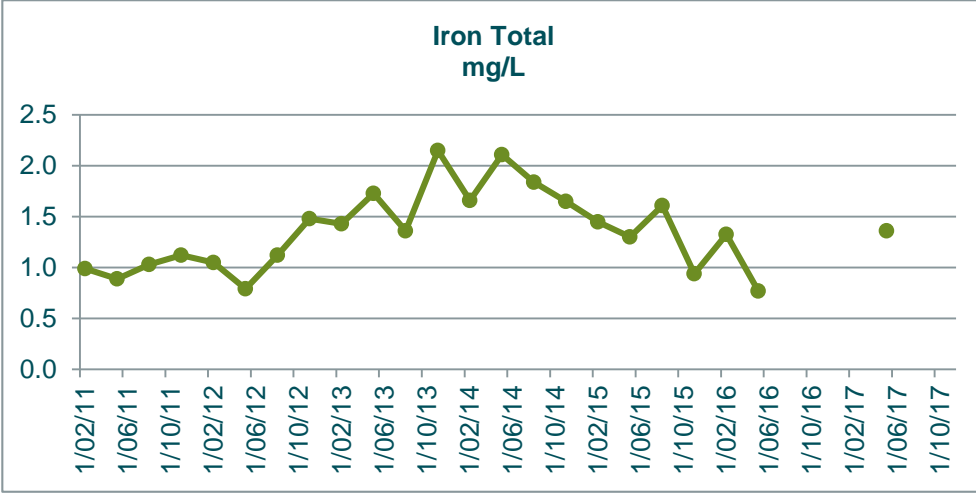
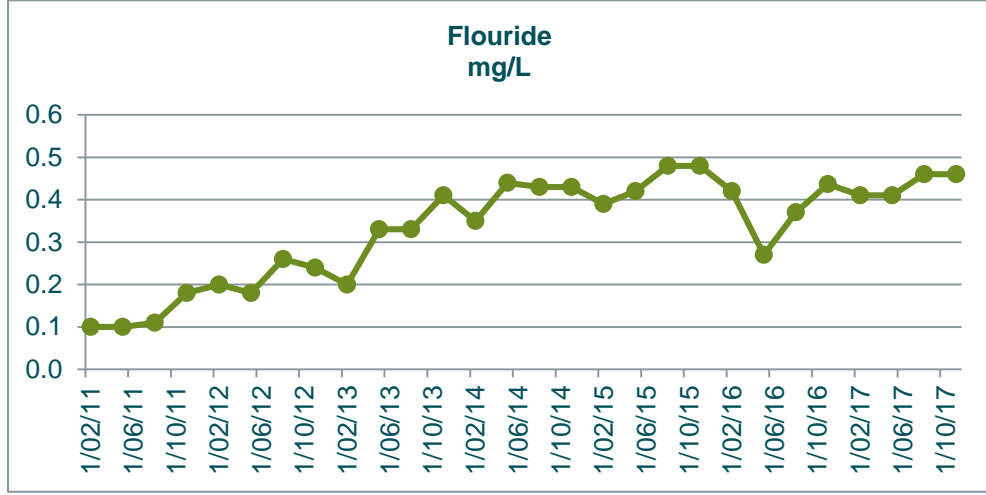
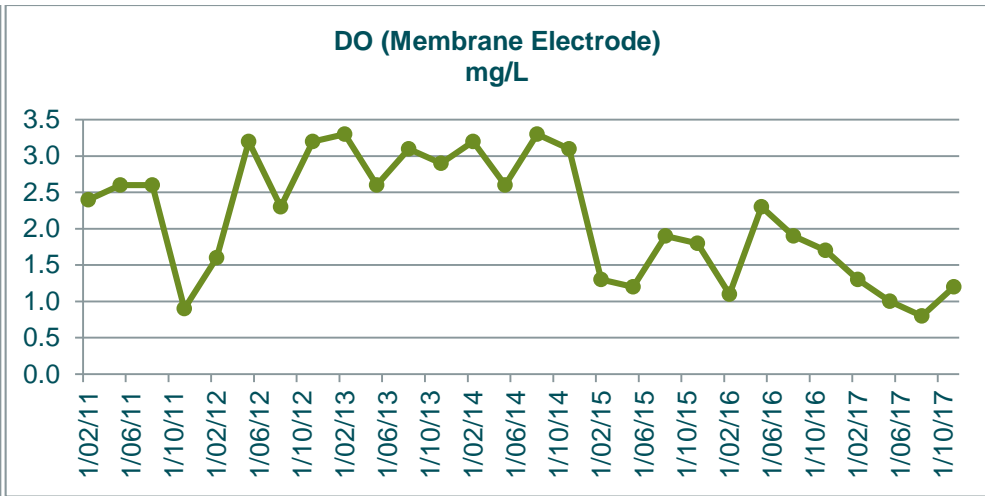
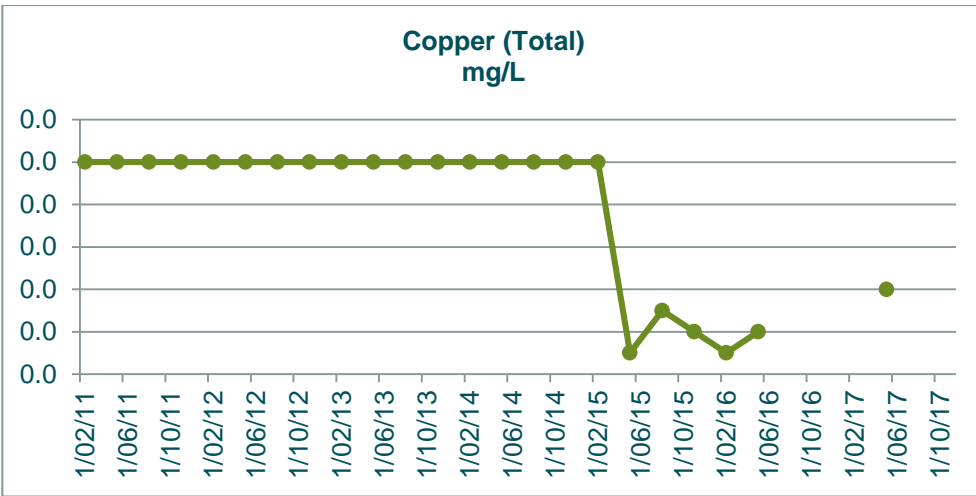
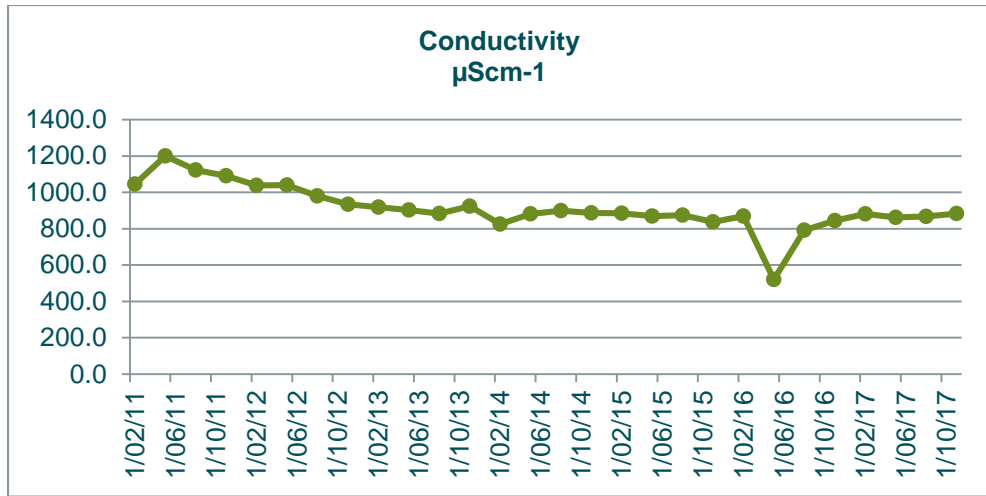


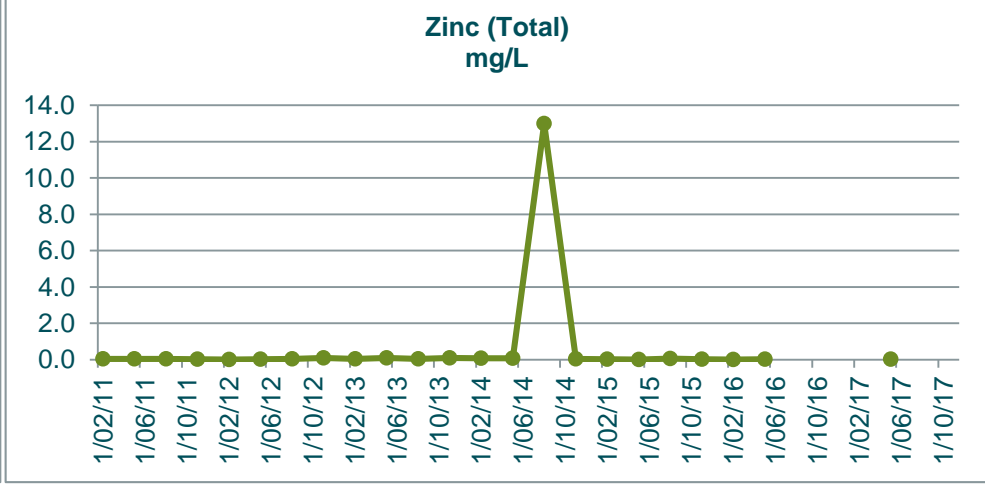
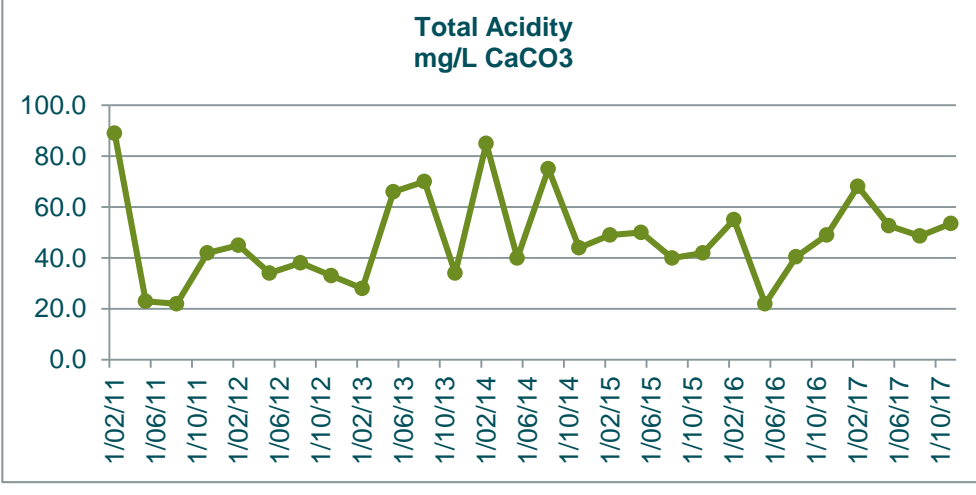
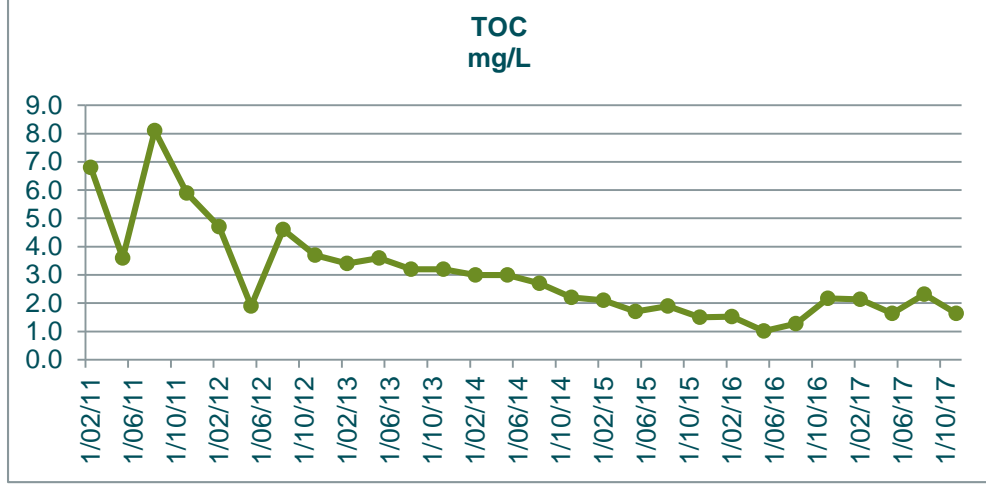
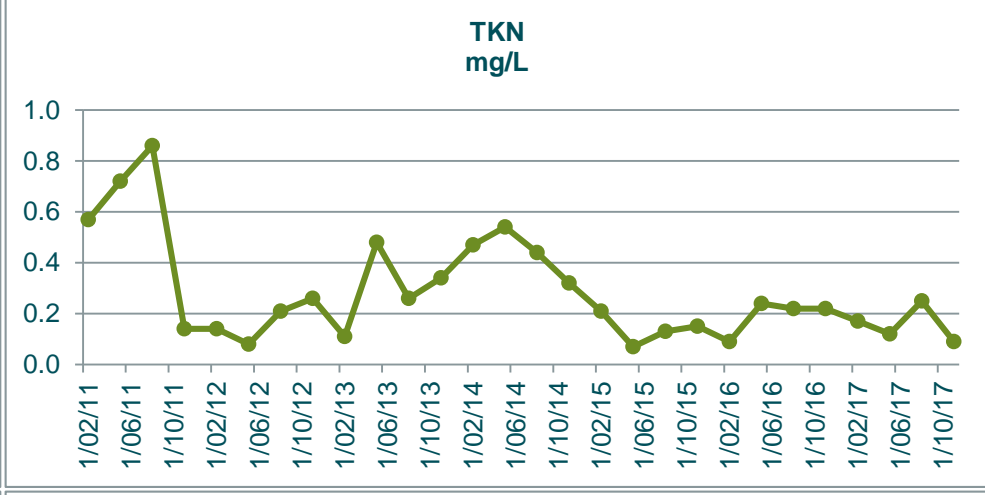
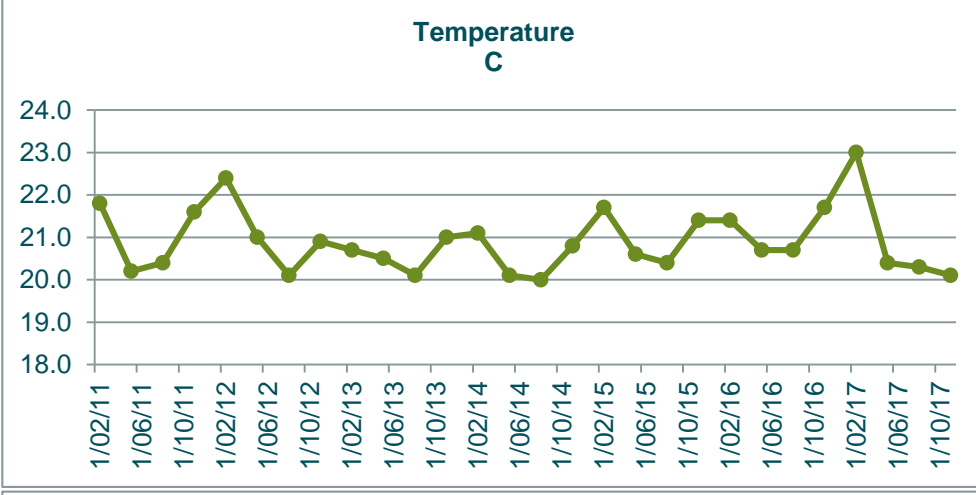
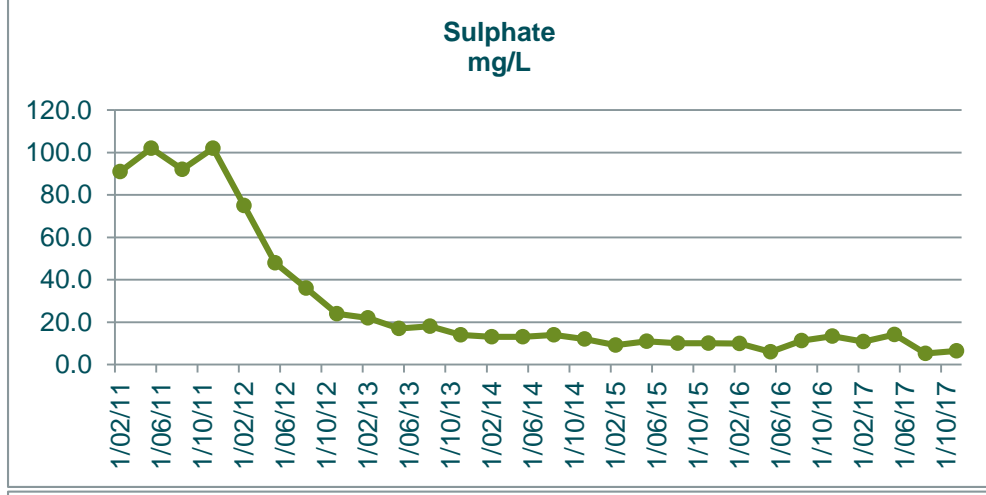
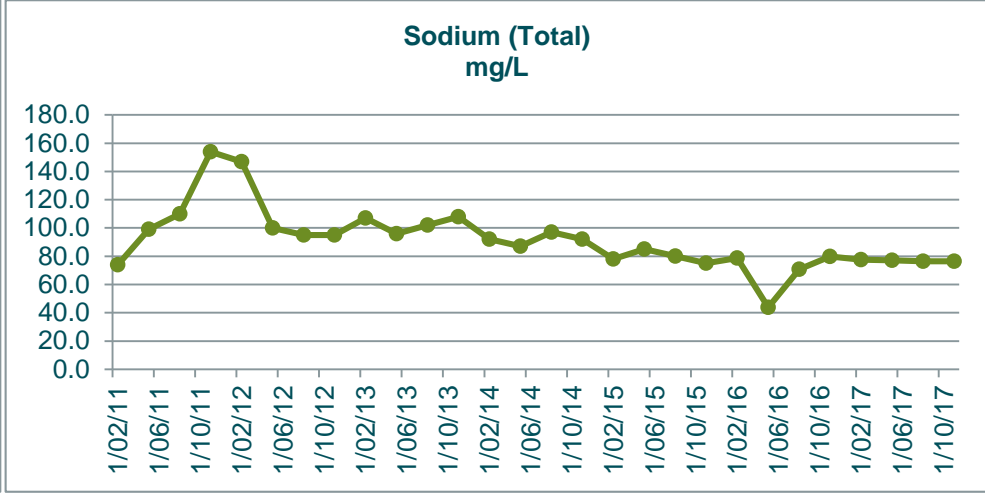
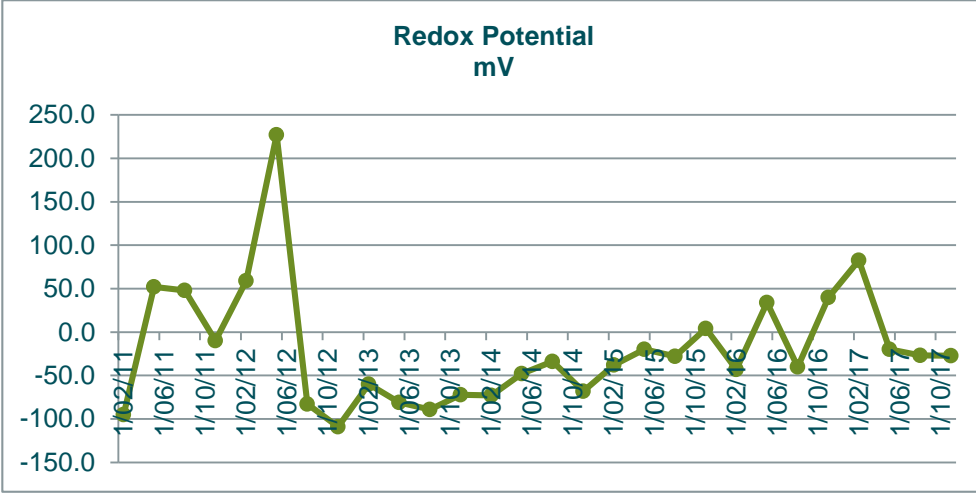
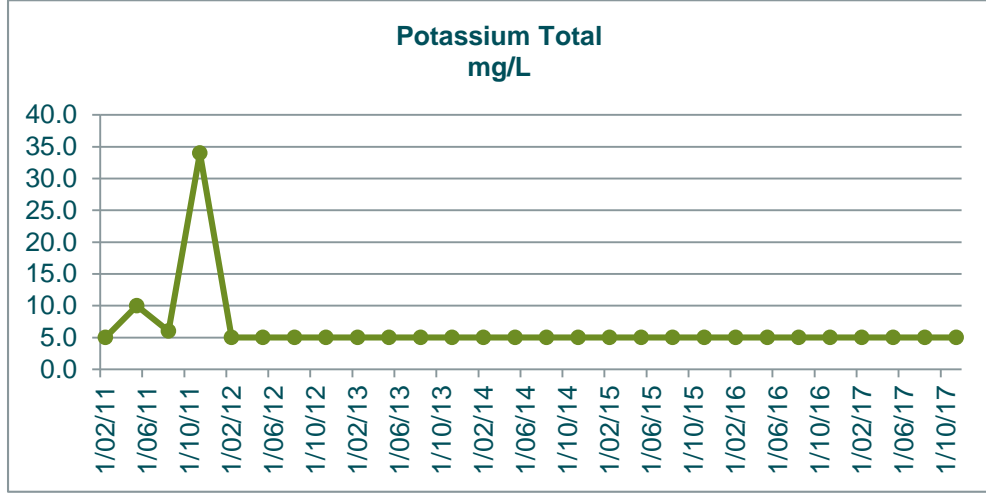
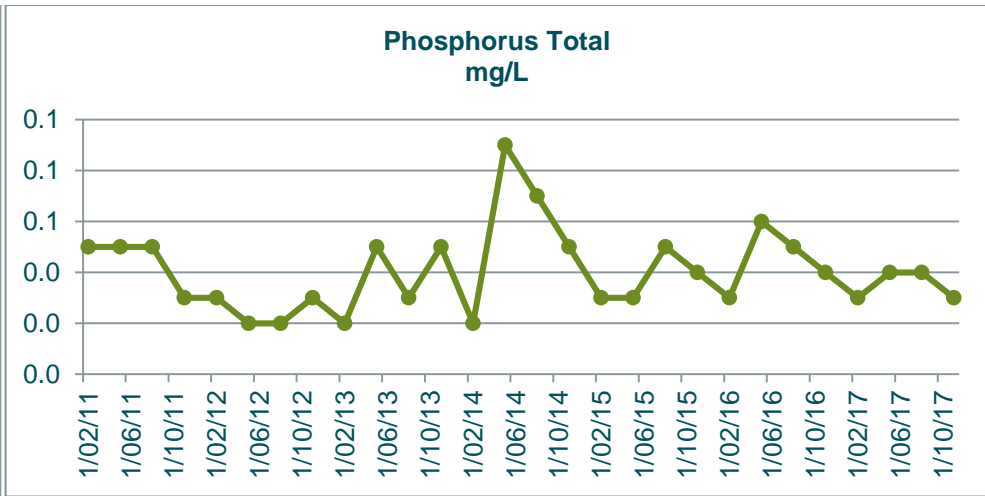
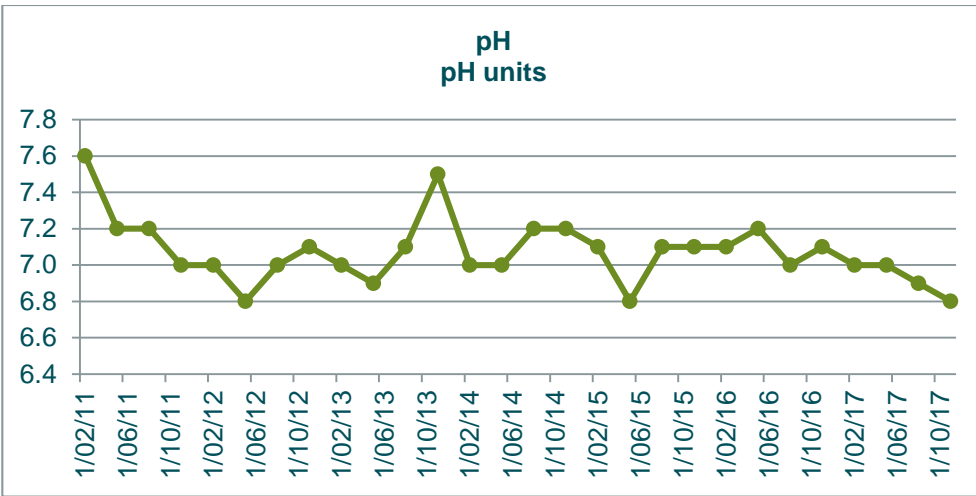
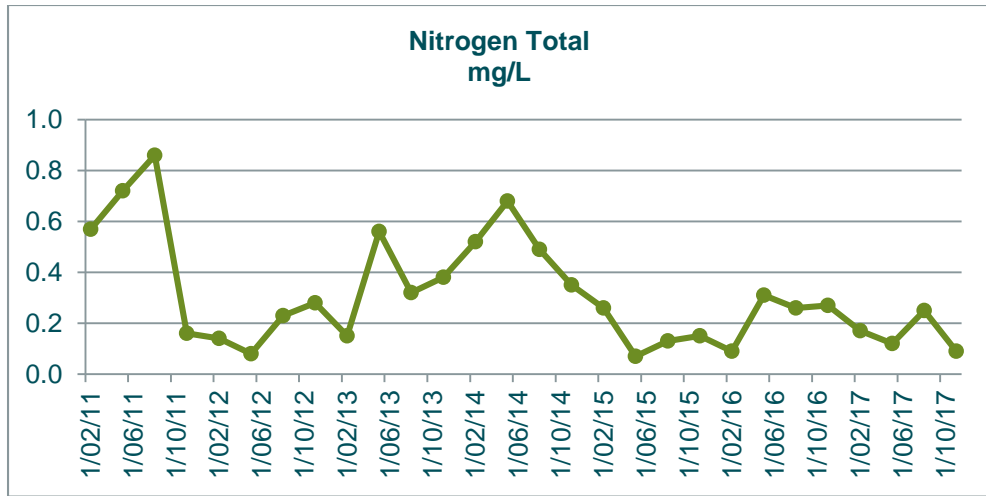




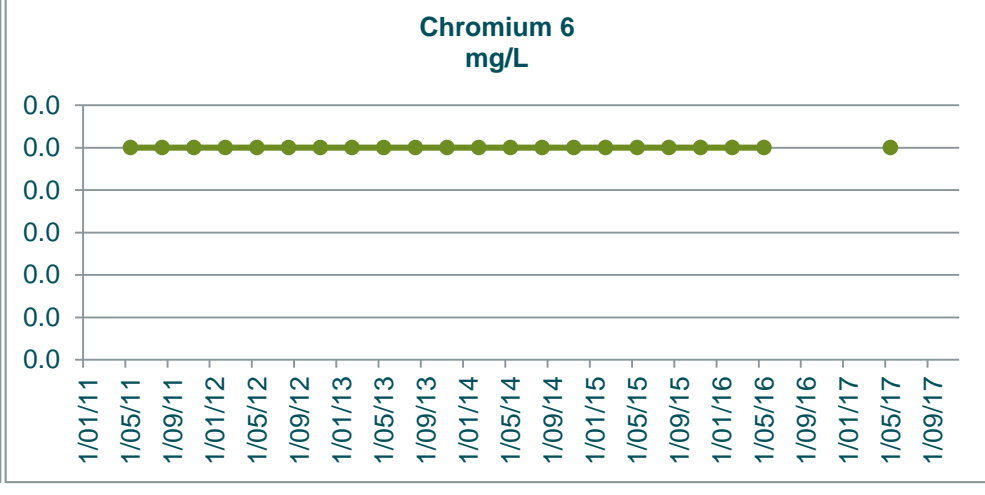
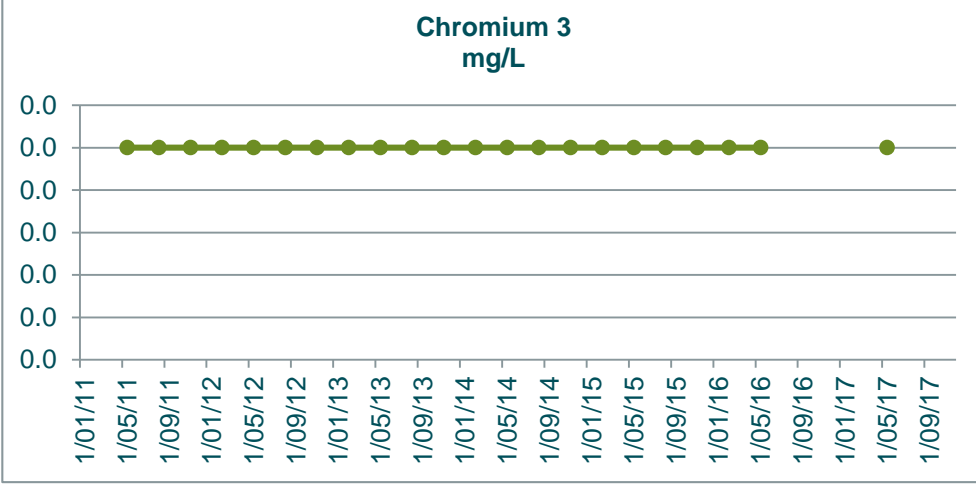
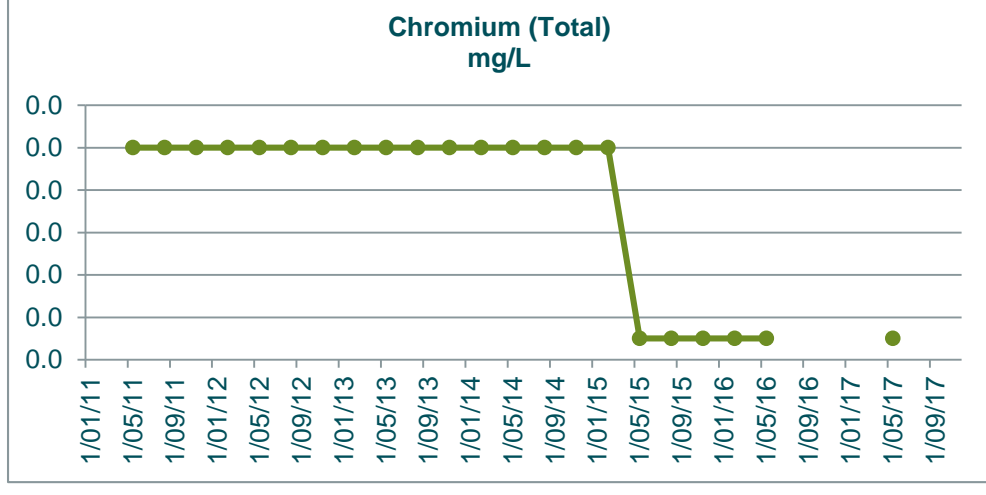
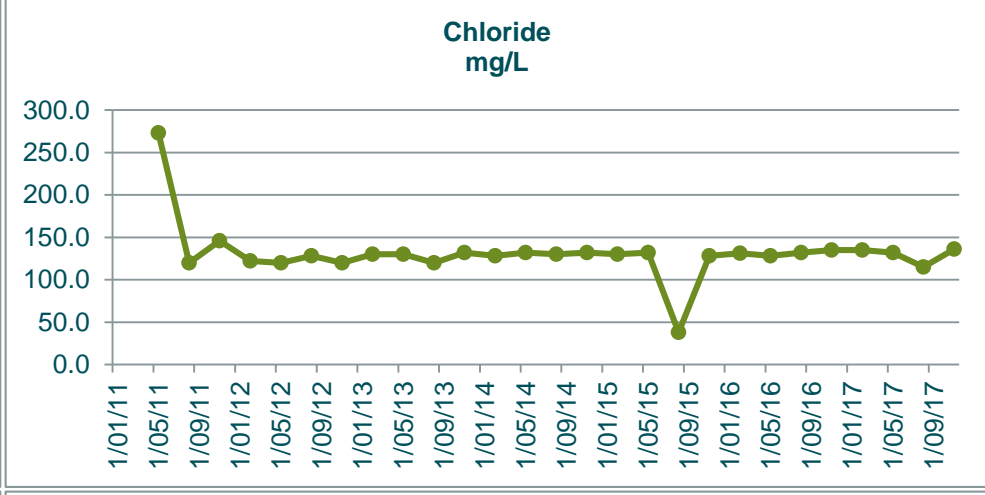
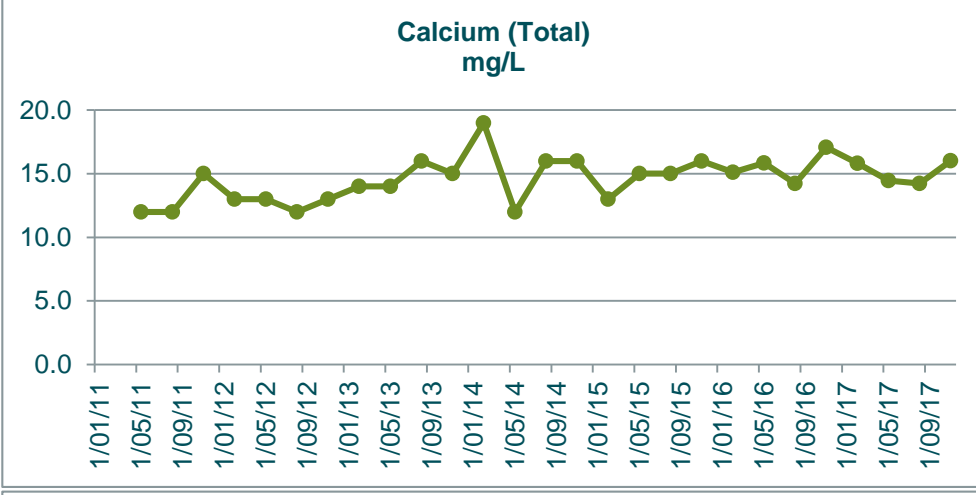
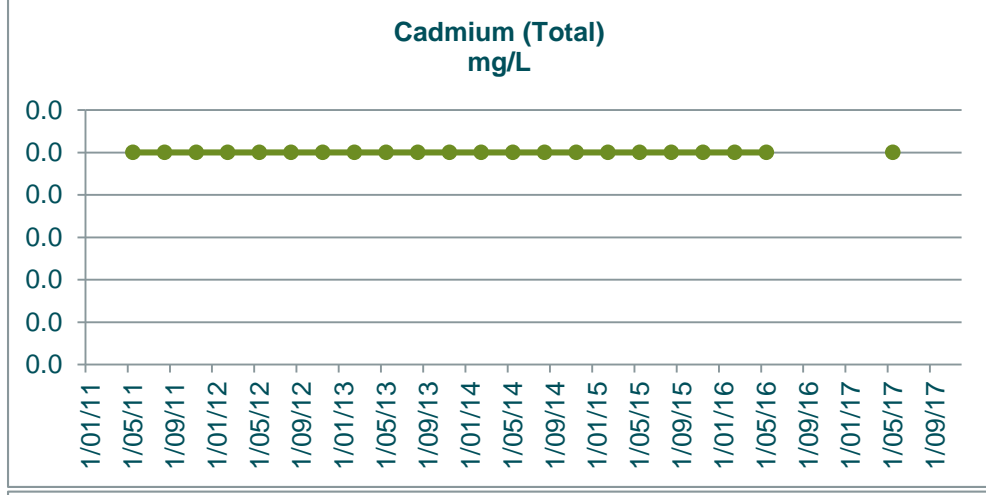
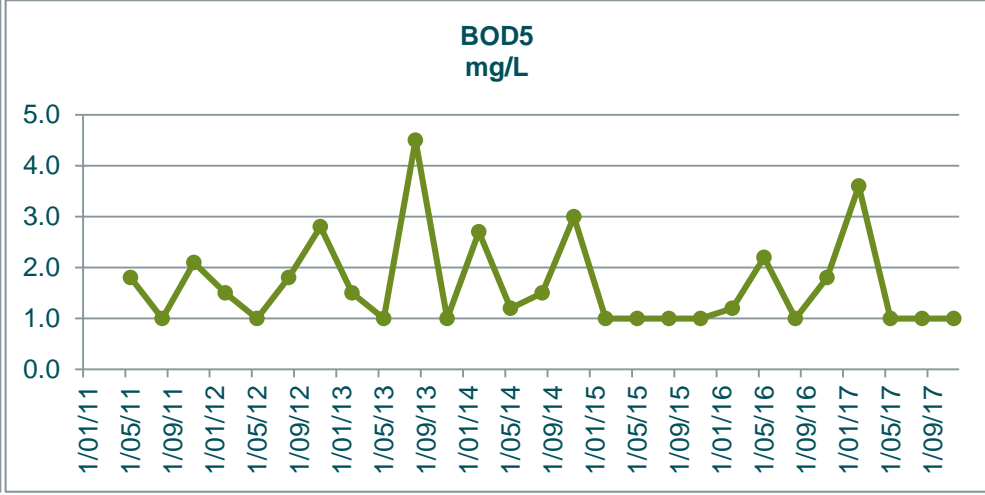
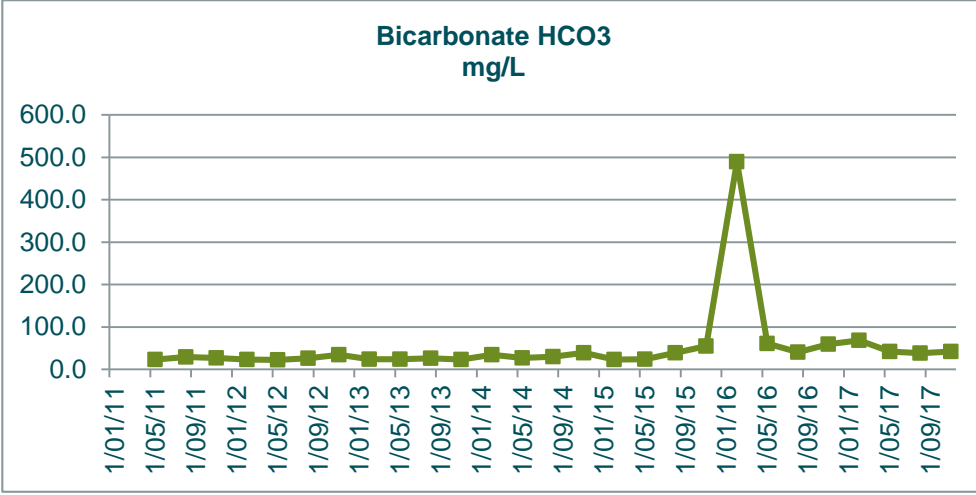
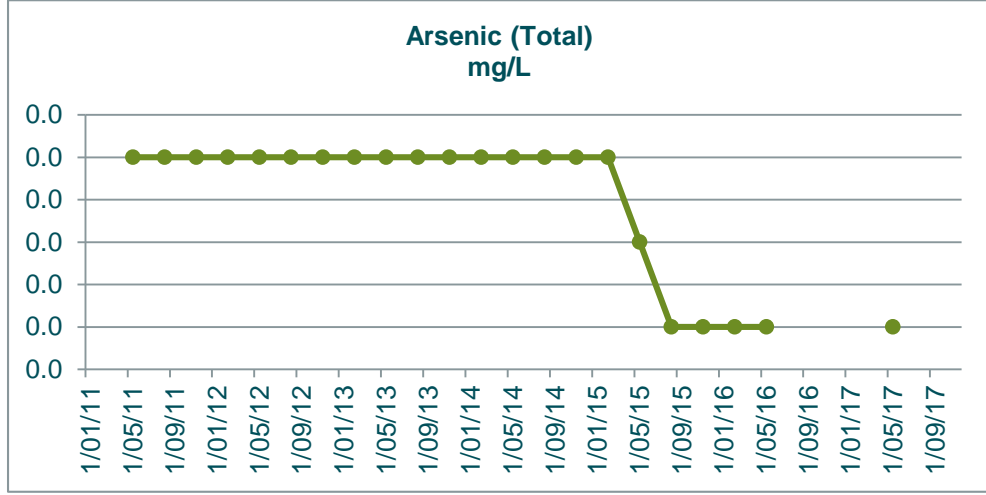
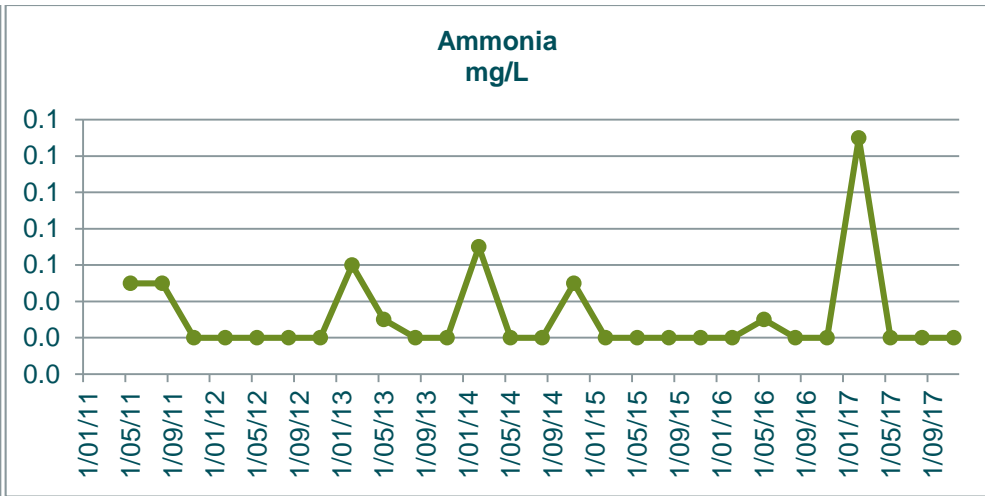
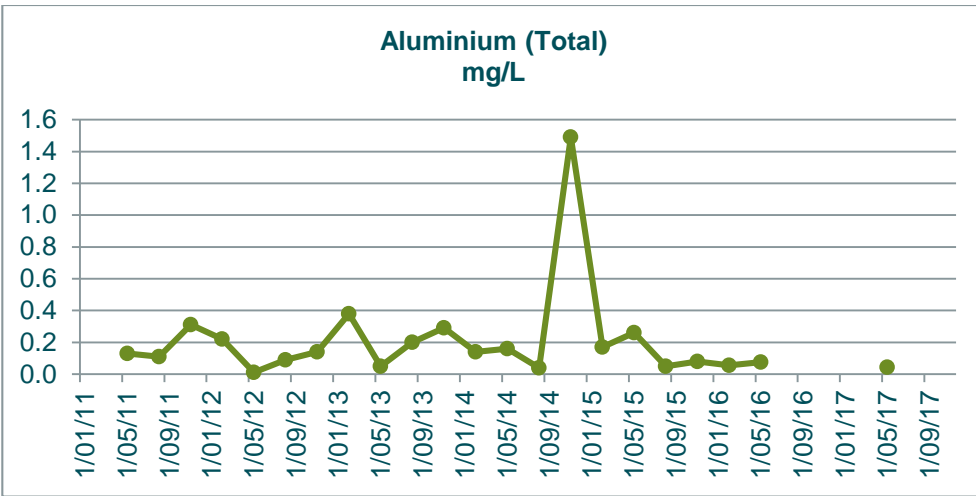
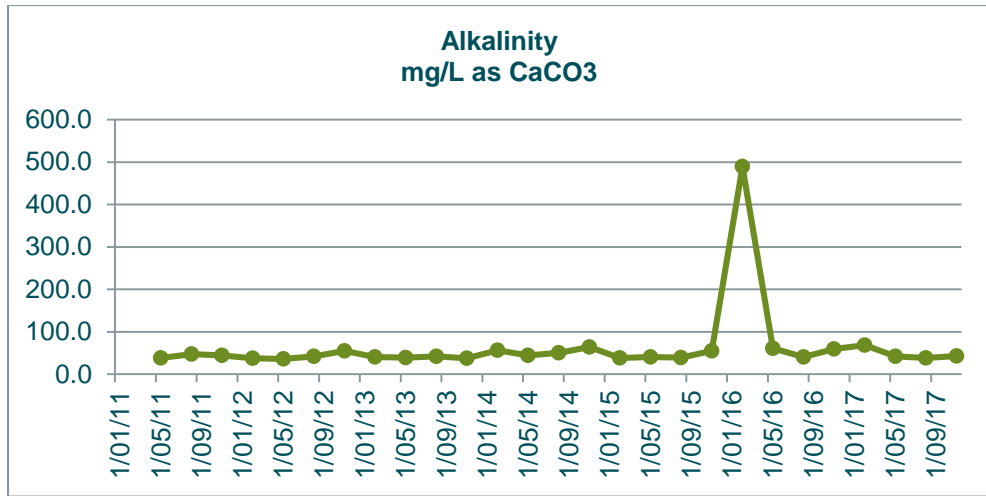
GW20	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L
1/02/11	316.0	0.5	0.4	0.0	193.0	2.4	0.0	86.0	100.0	0.0	0.0	0.0	1045.0	0.0	2.4	0.1	1.0	0.0	13.0	0.6	0.0	0.1	0.1	0.1	0.6	7.6		0.1	5.0	-95.0	74.0	91.0	21.8	0.6	6.8	89.0	0.0
11/05/11	335.0	0.2	0.4	0.0	204.0	2.2	0.0	103.0	100.0	0.0	0.0	0.0	1201.0	0.0	2.6	0.1	0.9	0.0	18.0	0.7	0.0	0.1	0.1	0.1	0.7	7.2		0.1	10.0	52.0	99.0	102.0	20.2	0.7	3.6	23.0	0.0
10/08/11	330.0	0.4	0.5	0.0	200.0	4.5	0.0	94.0	125.0	0.0	0.0	0.0	1123.0	0.0	2.6	0.1	1.0	0.0	17.0	0.6	0.0	0.1	0.1	0.1	0.9	7.2		0.1	6.0	48.0	110.0	92.0	20.4	0.9	8.1	22.0	0.0
9/11/11	402.0	0.3	0.1	0.0	245.0	1.0	0.0	152.0	101.0	0.0	0.0	0.0	1092.0	0.0	0.9	0.2	1.1	0.0	18.0	1.1	0.0	0.0	0.0	0.2	7.0		0.0	34.0	-10.0	154.0	102.0	21.6	0.1	5.9	42.0	0.0	
7/02/12	384.0	0.4	0.1	0.0	234.0	1.0	0.0	95.0	70.0	0.0	0.0	0.0	1038.0	0.0	1.6	0.2	1.1	0.0	14.0	0.9	0.0	0.0	0.0	0.1	0.1	7.0		0.0	5.0	59.0	147.0	75.0	22.4	0.1	4.7	45.0	0.0
9/05/12	431.0	0.1	0.1	0.0	263.0	1.0	0.0	79.0	60.0	0.0	0.0	0.0	1040.0	0.0	3.2	0.2	0.8	0.0	12.0	0.9	0.0	0.0	0.0	0.1	0.1	6.8		0.0	5.0	227.0	100.0	48.0	21.0	0.1	1.9	34.0	0.0
7/08/12	414.0	0.3	0.1	0.0	252.0	2.4	0.0	76.0	62.0	0.0	0.0	0.0	981.0	0.0	2.3	0.3	1.1	0.0	11.0	0.9	0.0	0.0	0.0	0.2	7.0		0.0	5.0	-83.0	95.0	36.0	20.1	0.2	4.6	38.0	0.1	
14/11/12	402.0	0.6	0.1	0.0	245.0	1.2	0.0	79.0	64.0	0.0	0.0	0.0	934.0	0.0	3.2	0.2	1.5	0.0	13.0	0.8	0.0	0.0	0.0	0.3	7.1		0.0	5.0	-	95.0	24.0	20.9	0.3	3.7	33.0	0.1	
14/02/13	388.0	0.2	0.1	0.0	237.0	1.0	0.0	84.0	60.0	0.0	0.0	0.0	919.0	0.0	3.3	0.2	1.4	0.0	12.0	0.9	0.0	0.0	0.0	0.2	7.0		0.0	5.0	-60.0	107.0	22.0	20.7	0.1	3.4	28.0	0.0	
15/05/13	381.0	0.4	0.1	0.0	232.0	2.4	0.0	79.0	63.0	0.0	0.0	0.0	902.0	0.0	2.6	0.3	1.7	0.0	11.0	0.9	0.0	0.1	0.0	0.1	0.6	6.9		0.1	5.0	-81.0	96.0	17.0	20.5	0.5	3.6	66.0	0.1
7/08/13	400.0	0.2	0.1	0.0	244.0	1.0	0.0	86.0	62.0	0.0	0.0	0.0	884.0	0.0	3.1	0.3	1.4	0.0	12.0	1.0	0.0	0.1	0.0	0.1	0.3	7.1		0.0	5.0	-89.0	102.0	18.0	20.1	0.3	3.2	70.0	0.1
13/11/13	390.0	0.7	0.1	0.0	238.0	2.1	0.0	88.0	62.0	0.0	0.0	0.0	924.0	0.0	2.9	0.4	2.2	0.0	13.0	1.1	0.0	0.0	0.0	0.4	7.5		0.1	5.0	-72.0	108.0	14.0	21.0	0.3	3.2	34.0	0.1	
12/02/14	374.0	0.4	0.1	0.0	228.0	2.1	0.0	78.0	66.0	0.0	0.0	0.0	825.0	0.0	3.2	0.4	1.7	0.0	11.0	1.0	0.0	0.1	0.0	0.1	0.5	7.0		0.0	5.0	-73.0	92.0	13.0	21.1	0.5	3.0	85.0	0.1
14/05/14	345.0	0.6	0.3	0.0	210.0	4.2	0.0	76.0	67.0	0.0	0.0	0.0	882.0	0.0	2.6	0.4	2.1	0.0	11.0	0.9	0.0	0.1	0.0	0.1	0.7	7.0		0.1	5.0	-48.0	87.0	13.0	20.1	0.5	3.0	40.0	0.1
13/08/14	355.0	0.6	0.2	0.0	217.0	1.8	0.0	89.0	75.0	0.0	0.0	0.0	899.0	0.0	3.3	0.4	1.8	0.0	13.0	1.0	0.0	0.1	0.0	0.1	0.5	7.2		0.1	5.0	-34.0	97.0	14.0	20.0	0.4	2.7	75.0	13.0
11/11/14	355.0	0.3	0.1	0.0	217.0	1.8	0.0	87.0	81.0	0.0	0.0	0.0	887.0	0.0	3.1	0.4	1.7	0.0	13.0	0.9	0.0	0.0	0.0	0.4	7.2		0.1	5.0	-68.0	92.0	12.0	20.8	0.3	2.2	44.0	0.0	
10/02/15	340.0	0.2	0.1	0.0	207.0	1.0	0.0	74.0	72.0	0.0	0.0	0.0	886.0	0.0	1.3	0.4	1.5	0.0	11.0	1.0	0.0	0.1	0.0	0.1	0.3	7.1		0.0	5.0	-38.0	78.0	9.2	21.7	0.2	2.1	49.0	0.0
12/05/15	422.0	0.2	0.0	0.0	257.0	1.0	0.0	92.0	77.0	0.0	0.0	0.0	869.0	0.0	1.2	0.4	1.3	0.0	13.0	0.9	0.0	0.0	0.0	0.1	6.8		0.0	5.0	-20.0	85.0	11.0	20.6	0.1	1.7	50.0	0.0	
12/08/15	346.0	0.4	0.0	0.0	346.0	1.0	0.0	92.0	74.0	0.0	0.0	0.0	875.0	0.0	1.9	0.5	1.6	0.0	13.0	0.9	0.0	0.0	0.0	0.1	7.1		0.1	5.0	-28.0	80.0	10.0	20.4	0.1	1.9	40.0	0.1	
11/11/15	309.0	0.1	0.1	0.0	319.0	1.0	0.0	82.0	73.0	0.0	0.0	0.0	838.0	0.0	1.8	0.5	0.9	0.0	12.0	0.7	0.0	0.0	0.0	0.2	7.1		0.0	5.0	4.0	75.0	10.0	21.4	0.2	1.5	42.0	0.0	
9/02/16	352.0	0.2	0.0	0.0	352.0	1.0	0.0	87.8	78.0	0.0	0.0	0.0	869.0	0.0	1.1	0.4	1.3	0.0	12.4	0.9	0.0	0.0	0.0	0.1	7.1		0.0	5.0	-43.0	78.6	9.9	21.4	0.1	1.5	55.0	0.0	
10/05/16	195.0	0.2	0.1	0.0	195.0	1.0	0.0	51.5	38.0	0.0	0.0	0.0	521.0	0.0	2.3	0.3	0.8	0.0	6.9	0.5	0.0	0.1	0.0	0.3	7.2		0.1	5.0	34.0	43.9	6.0	20.7	0.2	1.0	22.0	0.0	
10/08/16	312.0		0.1		312.0	2.7		76.8	65.0				791.3		1.9	0.4			11.2			0.0	0.0	0.0	0.3	7.0		0.1	5.0	-40.0	70.8	11.2	20.7	0.2	1.3	40.4	
8/11/16	332.0		0.1		332.0	1.0		88.2	76.0				844.1		1.7	0.4			12.3			0.1	0.0	0.1	0.3	7.1		0.0	5.0	39.9	79.8	13.3	21.7	0.2	2.2	49.0	
8/02/17	348.0		0.1		348.0	1.0		86.1	75.0				882.5		1.3	0.4			12.5			0.0	0.0	0.0	0.2	7.0		0.0	5.0	82.7	77.6	10.8	23.0	0.2	2.1	68.1	
9/05/17	331.0	0.2	0.0	0.0	331.0	1.0	0.0	90.2	85.0	0.0	0.0	0.0	861.6	0.0	1.0	0.4	1.4	0.0	13.0	0.7	0.0	0.0	0.0	0.1	7.0		0.0	5.0	-20.0	77.0	14.2	20.4	0.1	1.6	52.7	0.0	
9/08/17	340.4		0.2		340.0	2.1		85.8	90.0				867.2		0.8	0.5			12.4			0.0	0.0	0.0	0.3	6.9		0.0	5.0	-26.7	76.4	5.3	20.3	0.3	2.3	48.6	
8/11/17	352.3		0.0		352.0	1.0		91.1	72.0				884.2		1.2	0.5			13.0			0.0	0.0	0.0	0.1	6.8		0.0	5.0	-27.1	76.4	6.4	20.1	0.1	1.6	53.5	
2017 Min	331.0	0.2	0.0	0.0	331.0	1.0	0.0	85.8	72.0	0.0	0.0	0.0	861.6	0.0	0.8	0.4	1.4	0.0	12.4	0.7	0.0	0.0	0.0	0.1	6.8		0.0	5.0	-27.1	76.4	5.3	20.1	0.1	1.6	48.6	0.0	
2017 Max	352.3	0.2	0.2	0.0	352.0	2.1	0.0	91.1	90.0	0.0	0.0	0.0	884.2	0.0	1.3	0.5	1.4	0.0	13.0	0.7	0.0	0.0	0.0	0.3	7.0		0.0	5.0	82.7	77.6	14.2	23.0	0.3	2.3	68.1	0.0	
2017 Mean	342.9	0.2	0.1	0.0	342.8	1.3	0.0	88.3	80.5	0.0	0.0	0.0	873.9	0.0	1.1	0.4	1.4	0.0	12.7	0.7	0.0	0.0	0.0	0.2	6.9		0.0	5.0	2.2	76.9	9.1	21.0	0.2	1.9	55.7	0.0	

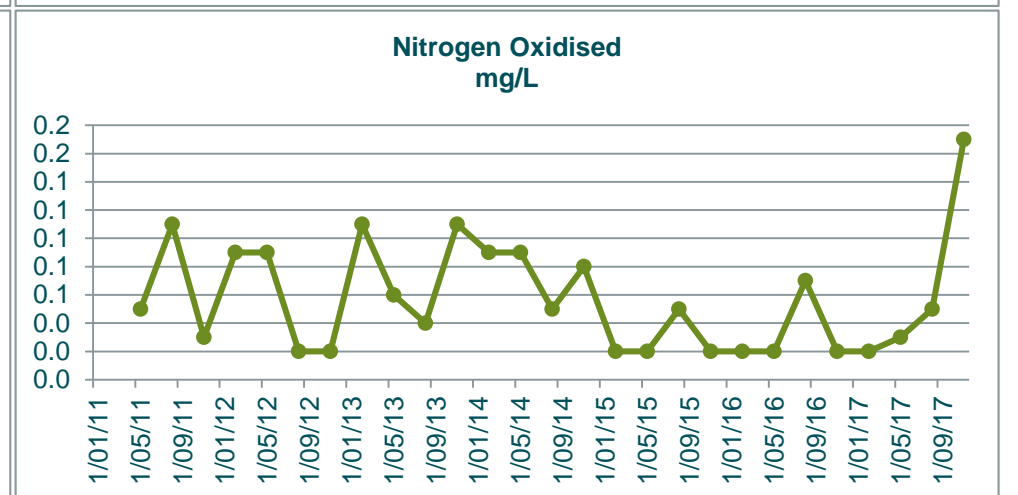
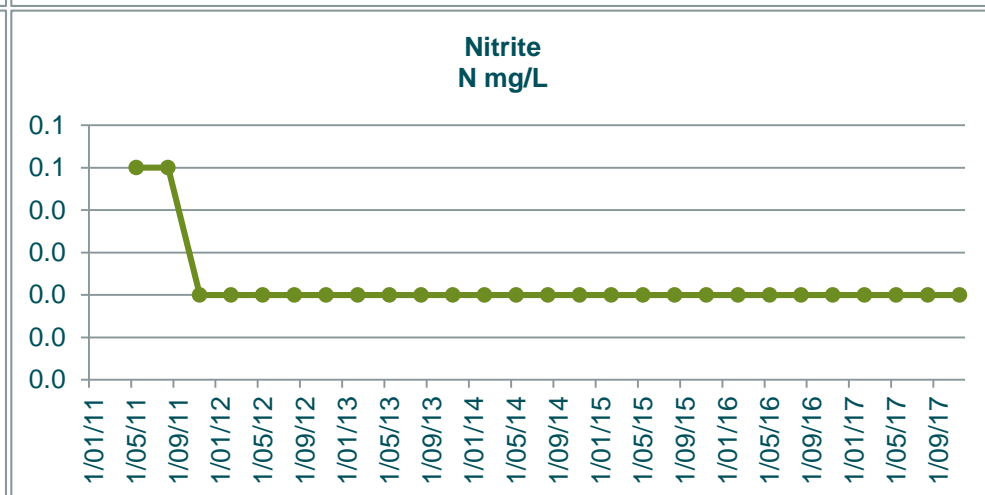
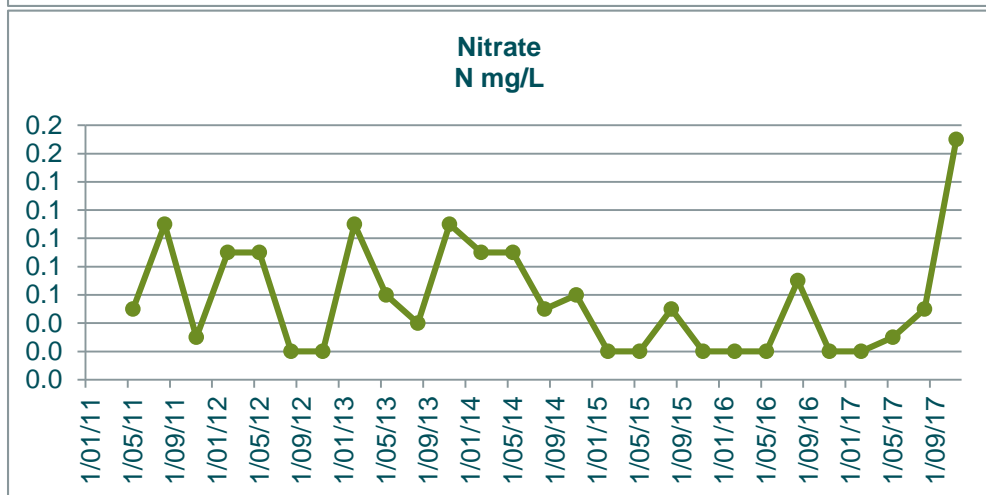
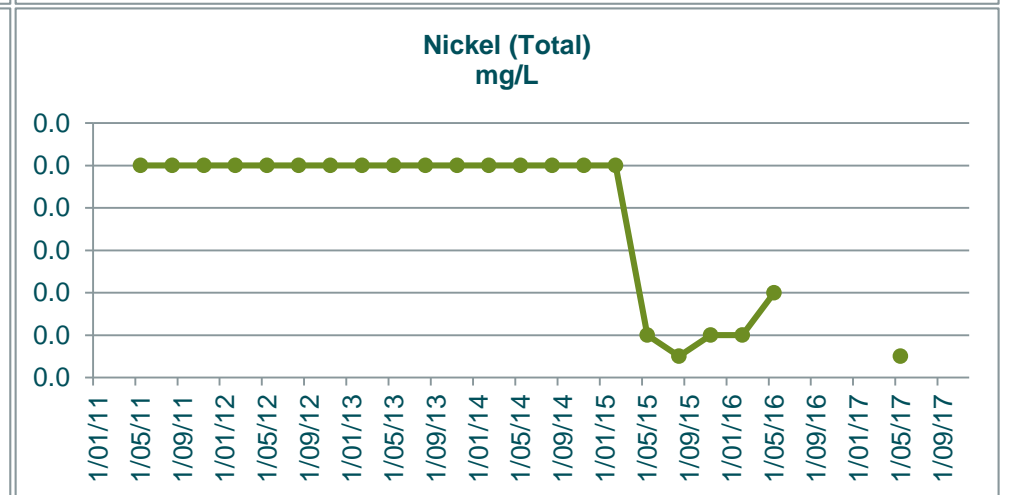
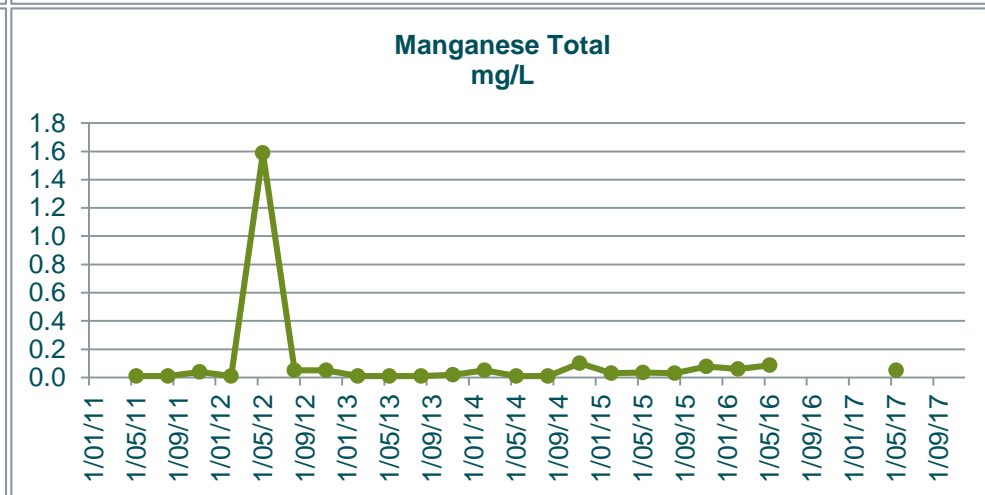
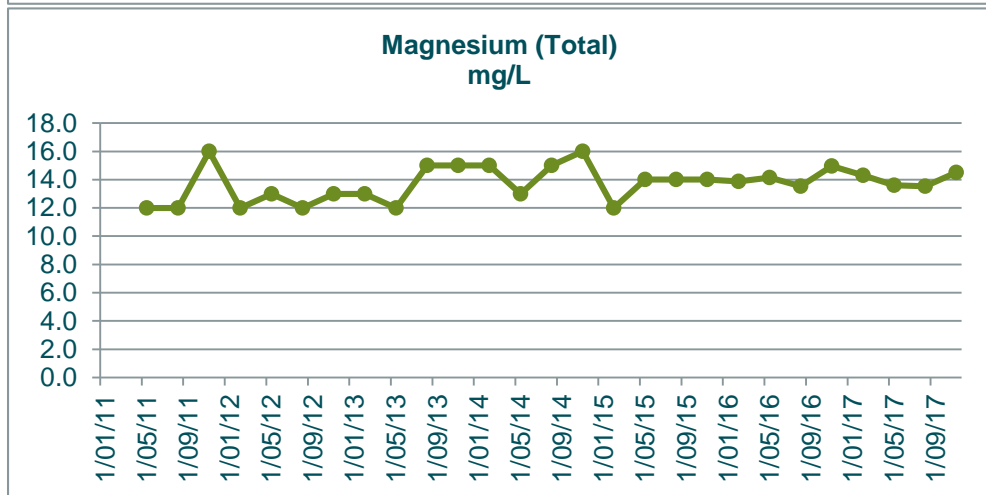
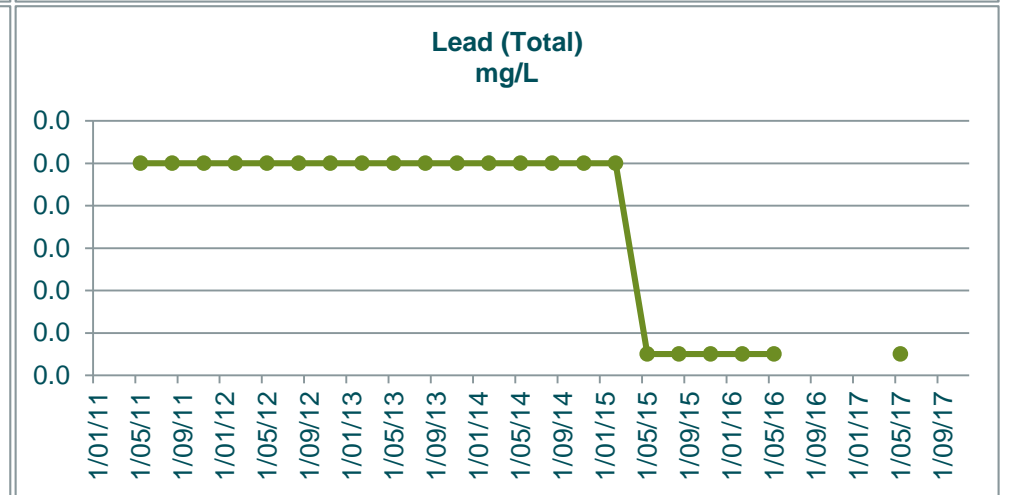
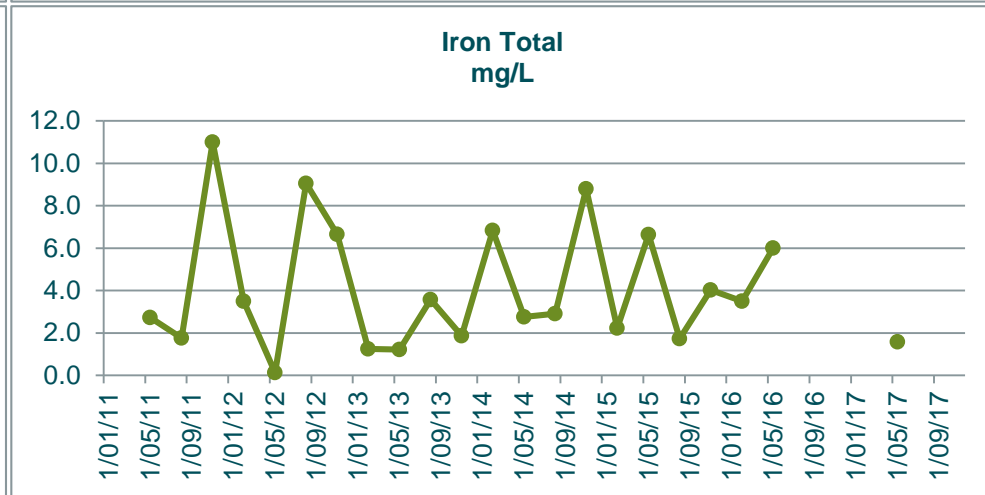
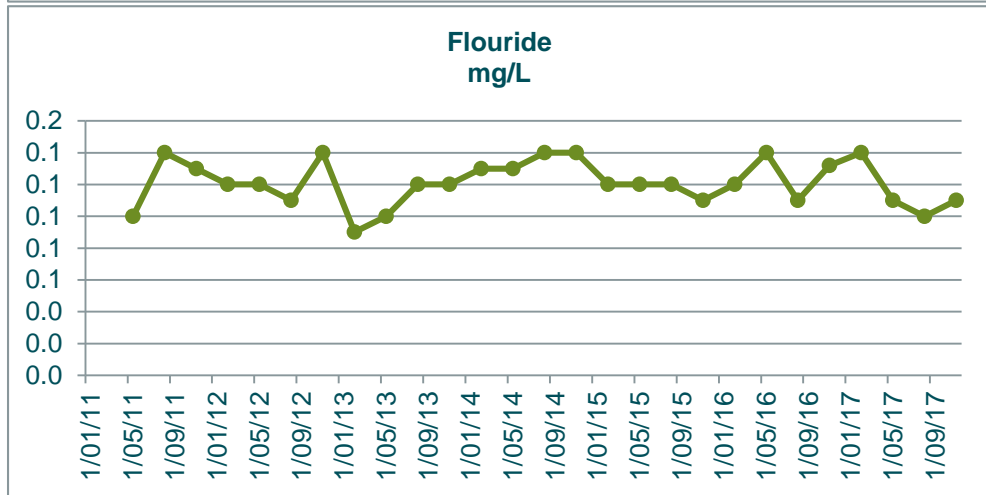
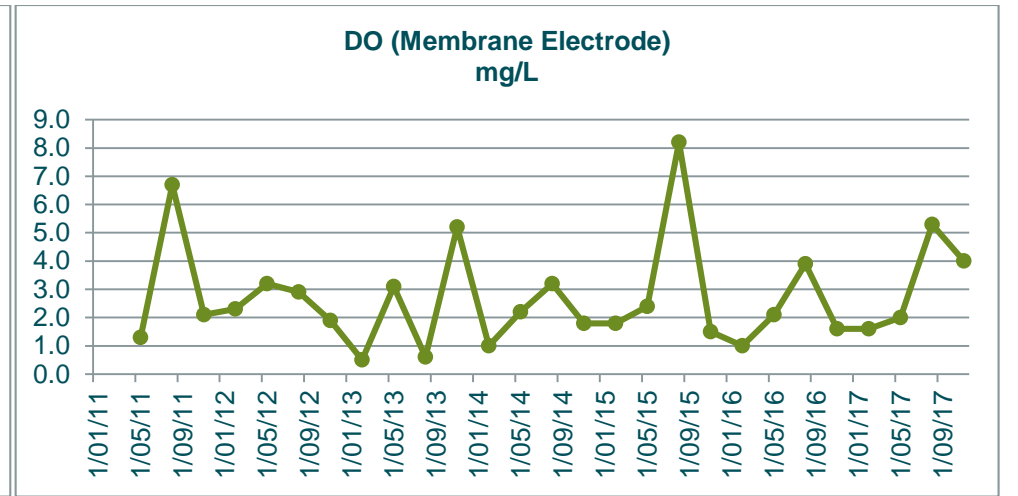
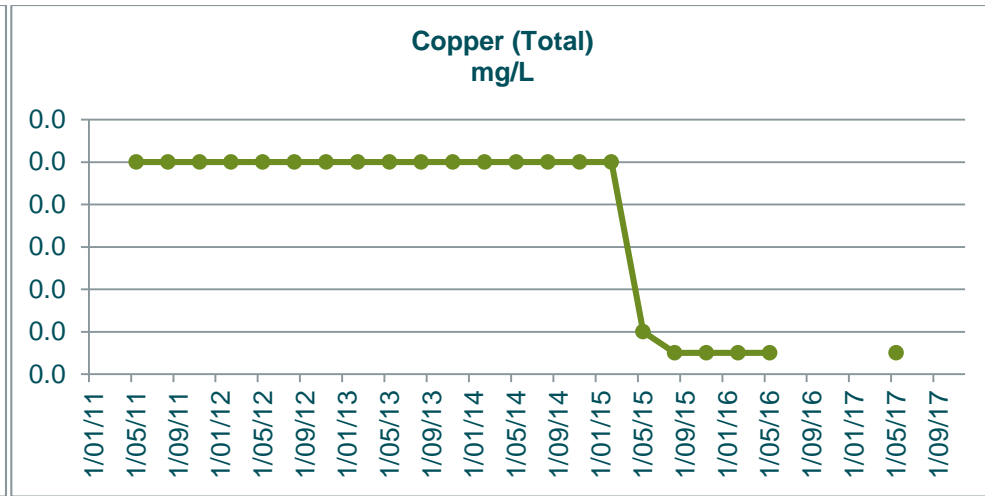
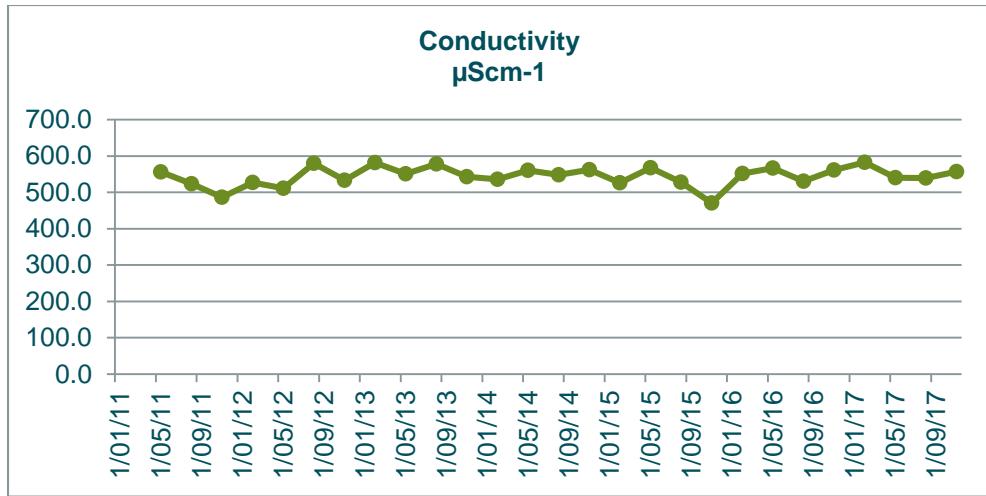


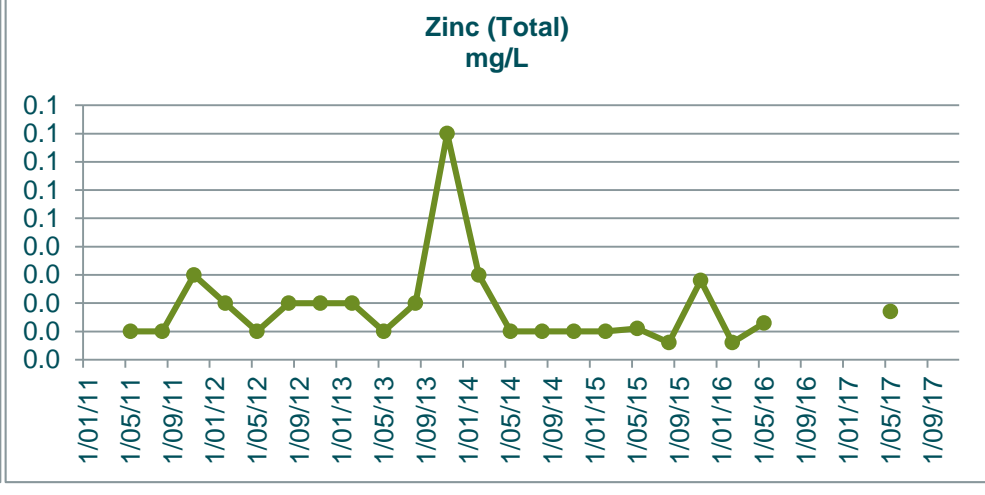
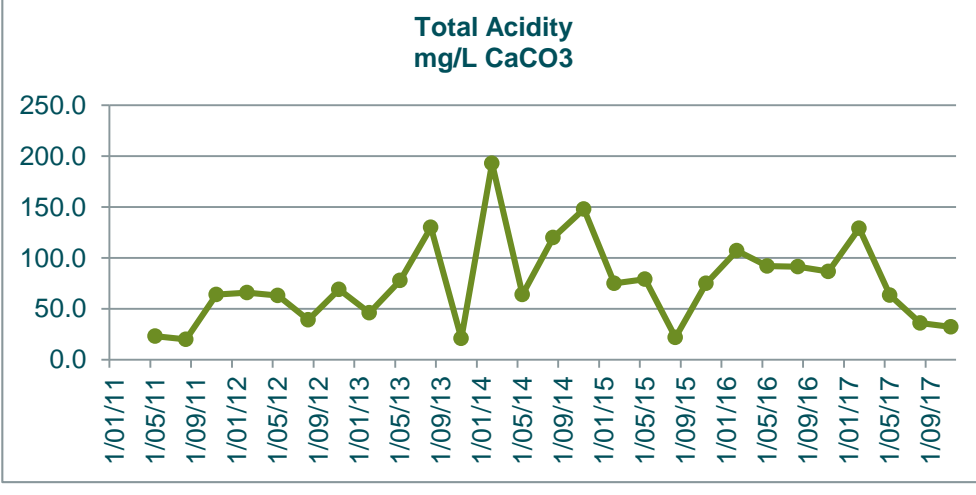
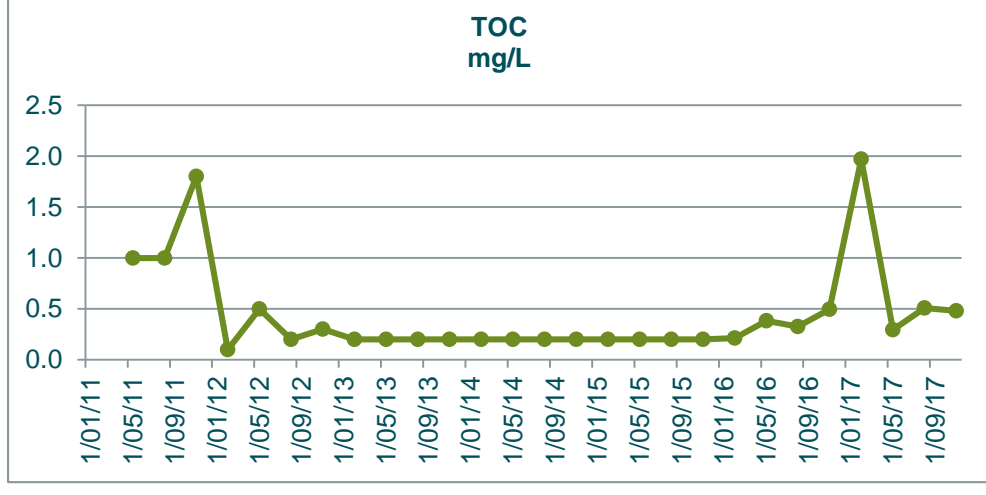
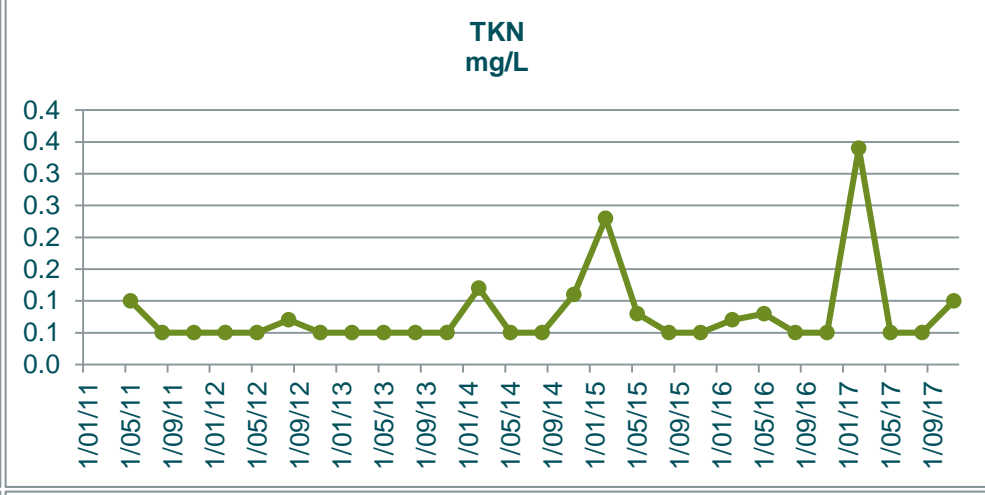
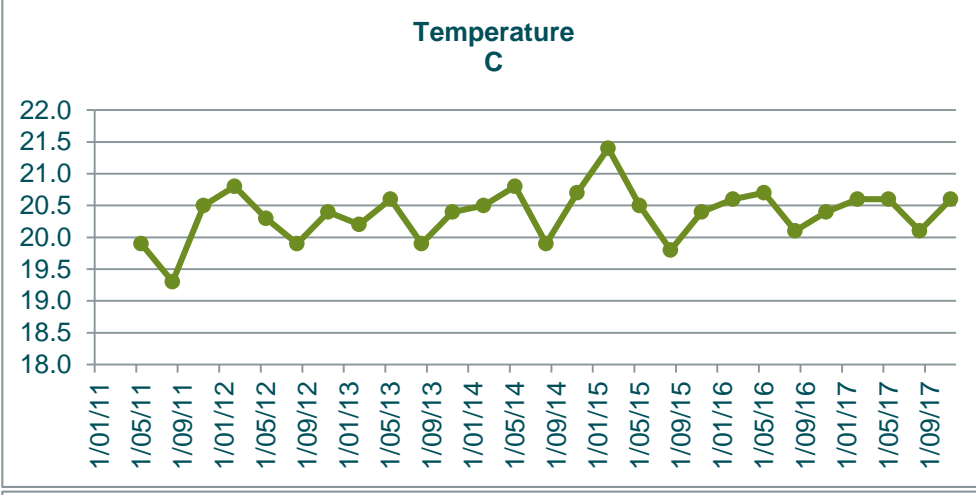
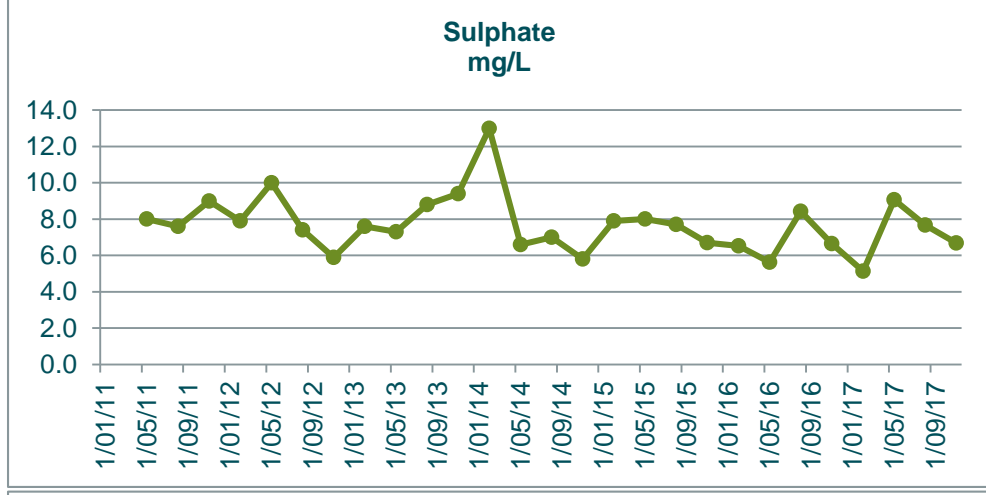
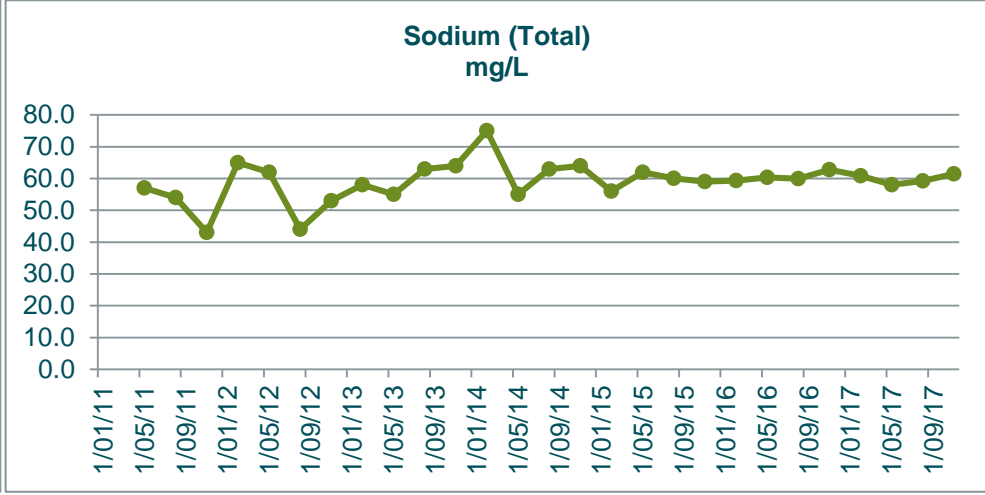
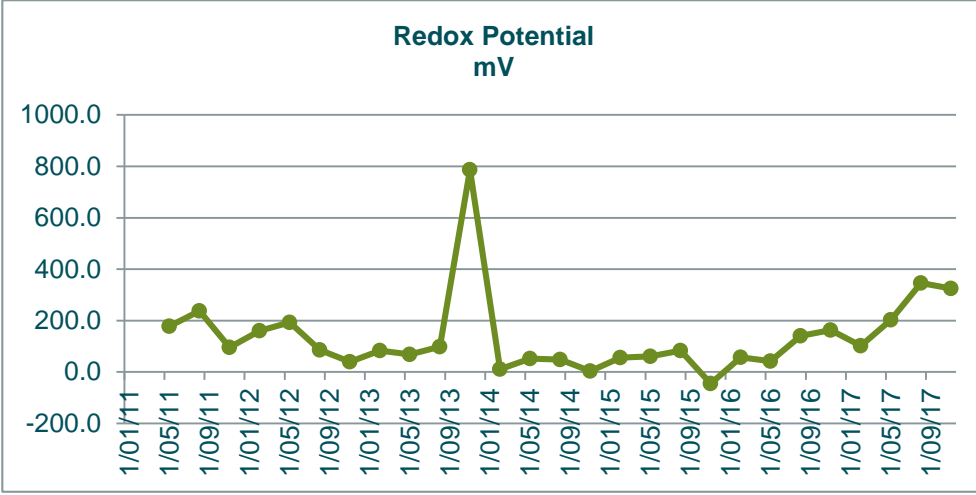
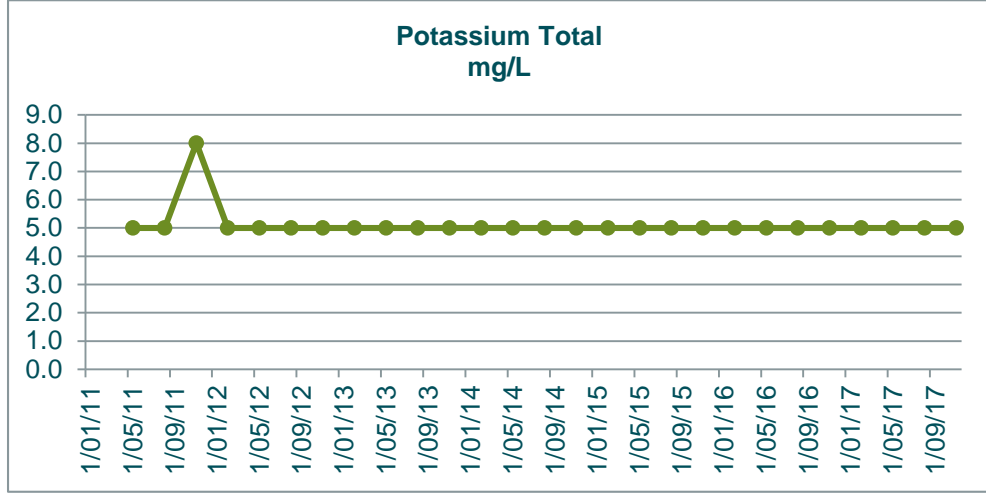
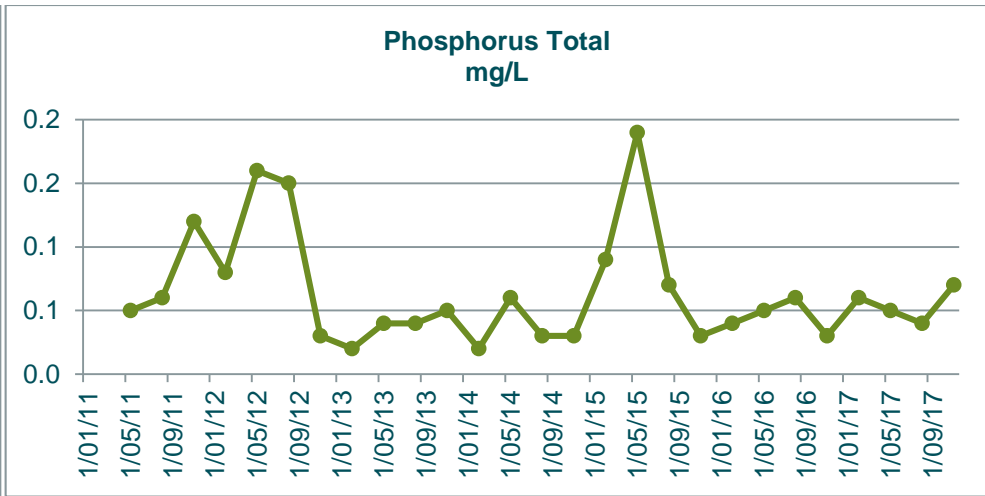
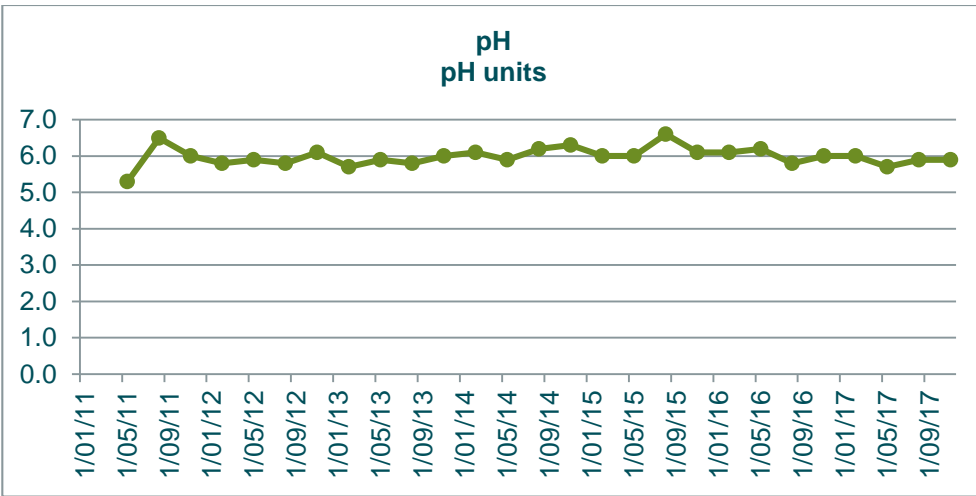
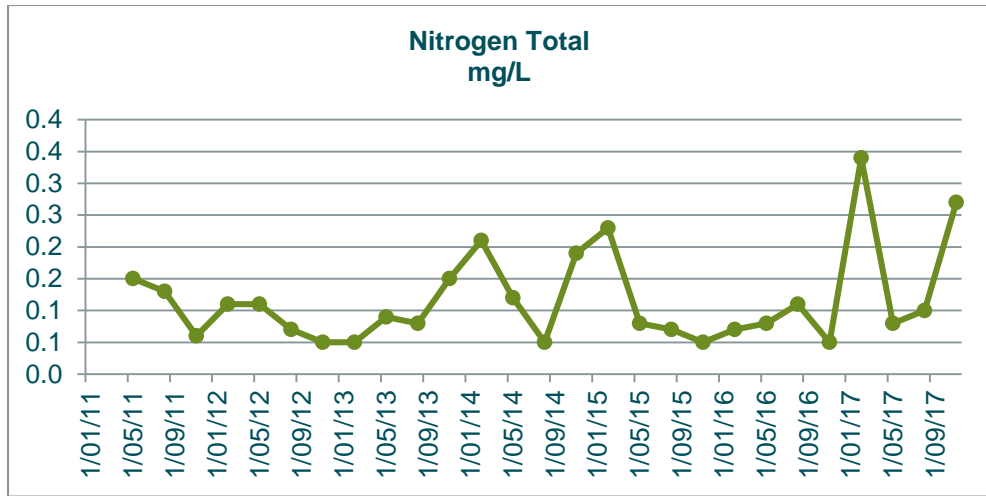




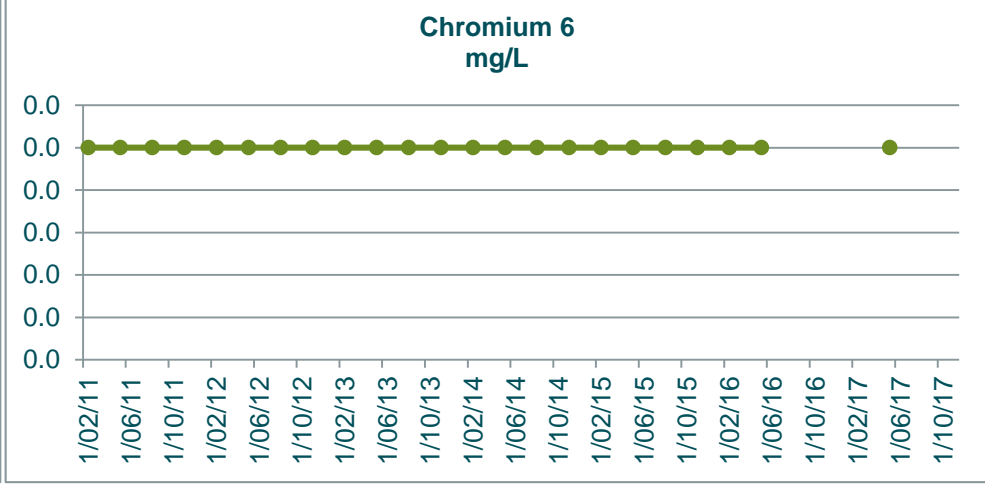
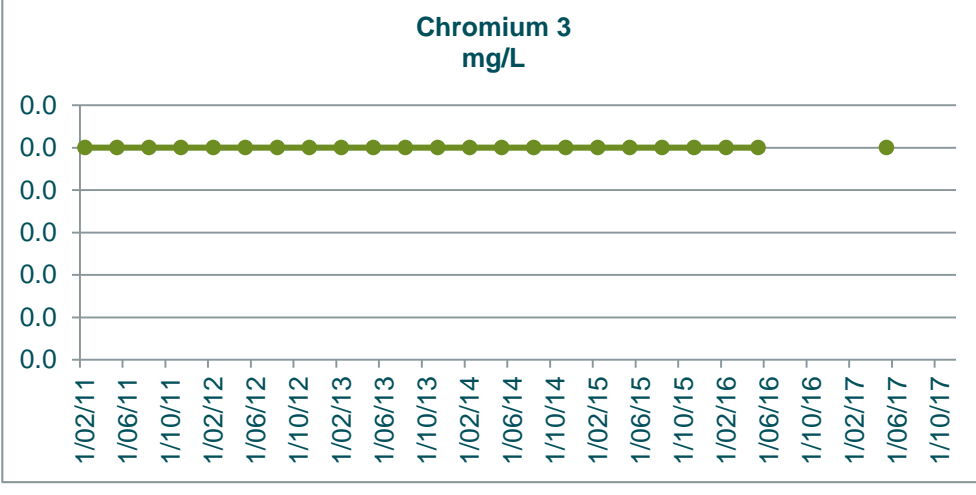
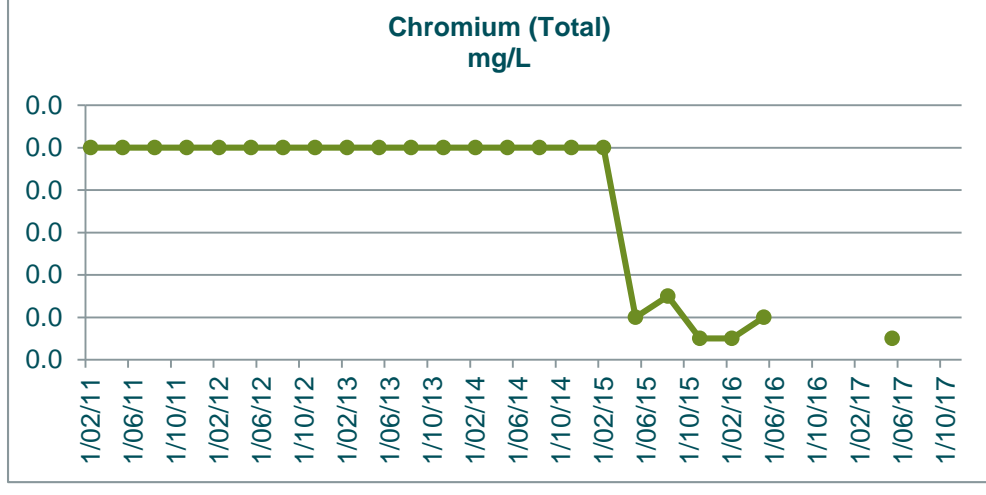
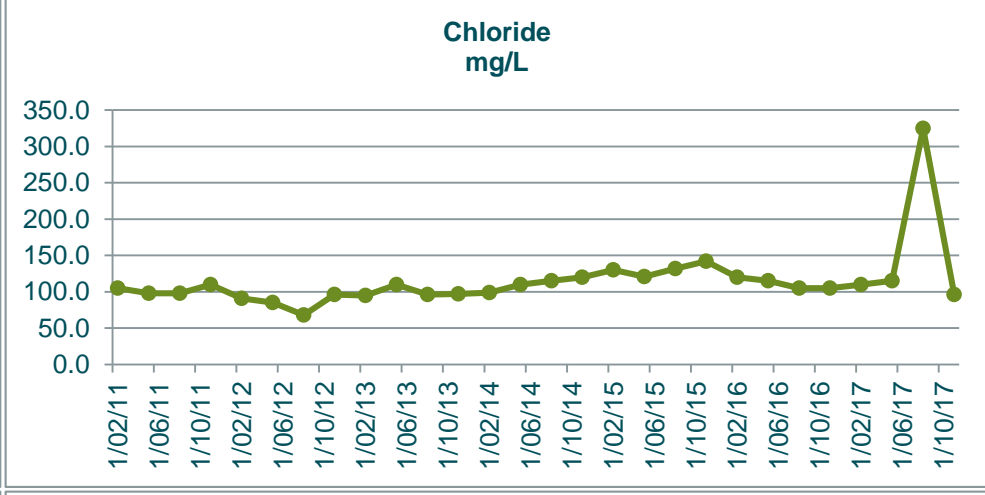
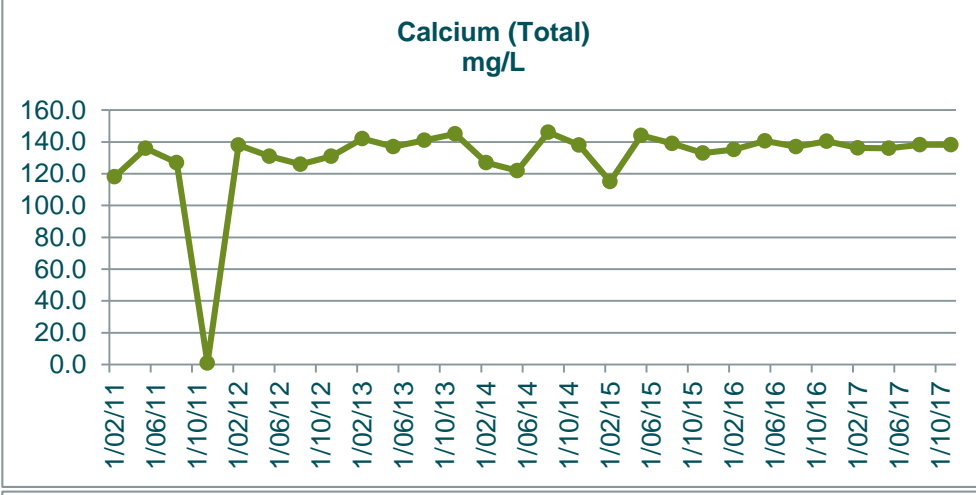
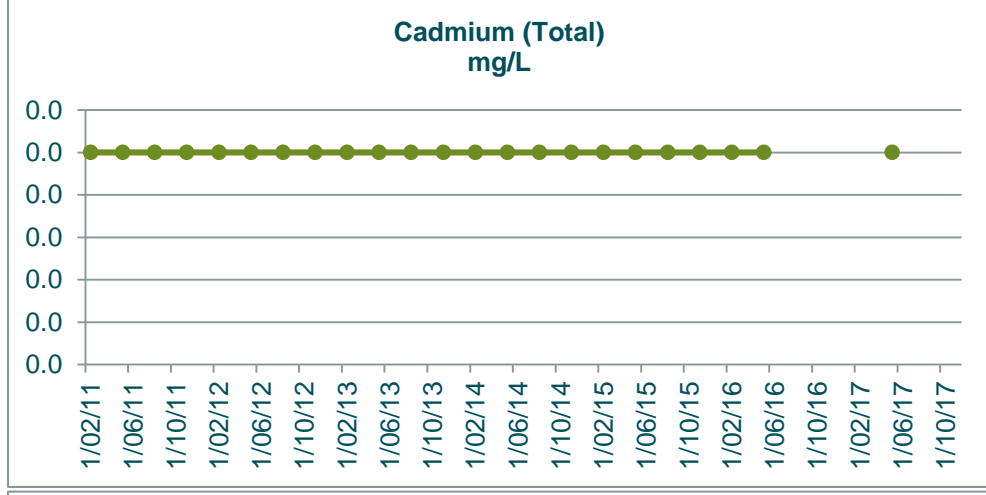
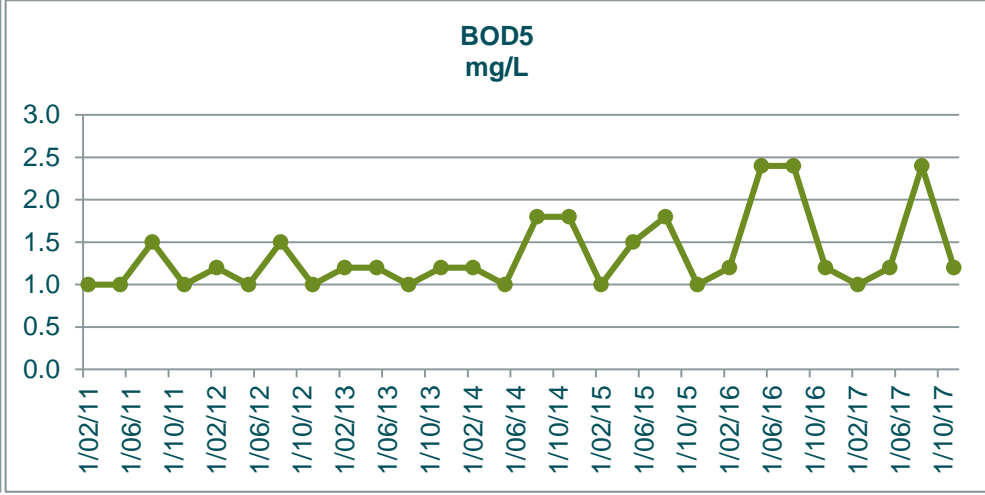
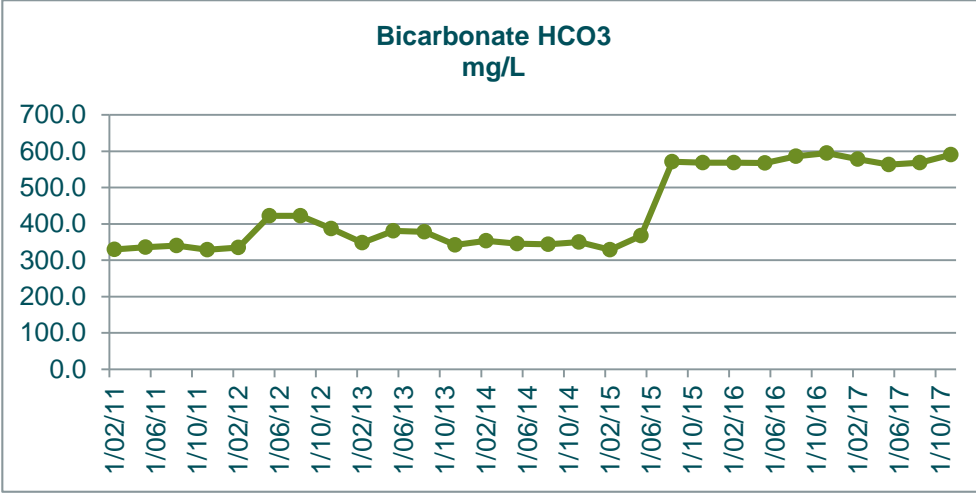
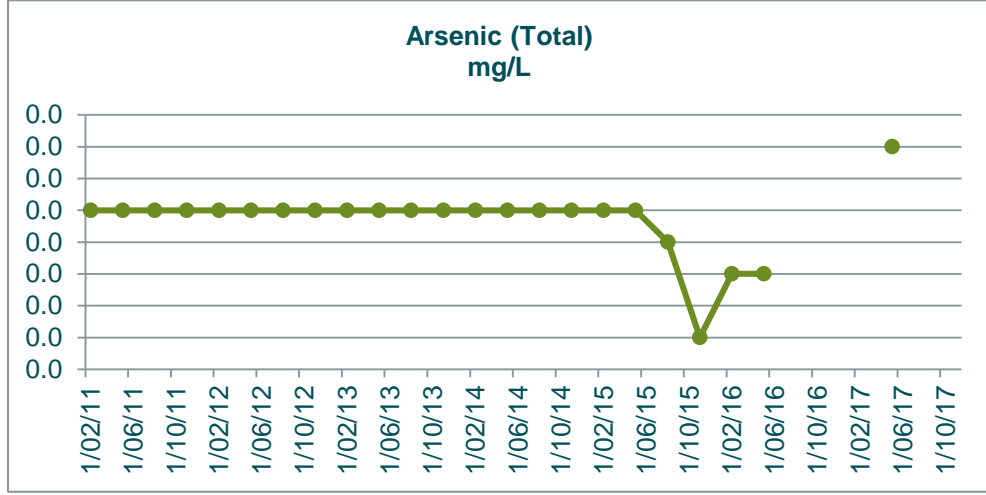
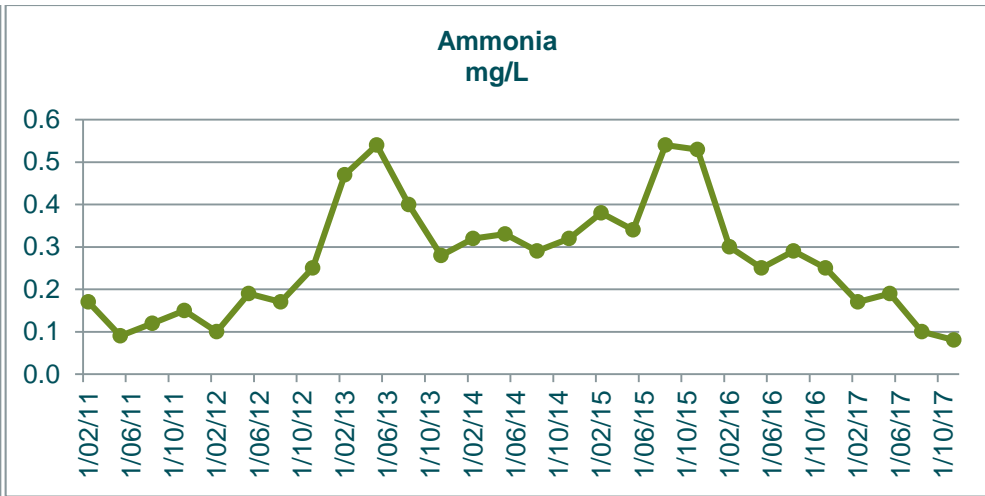
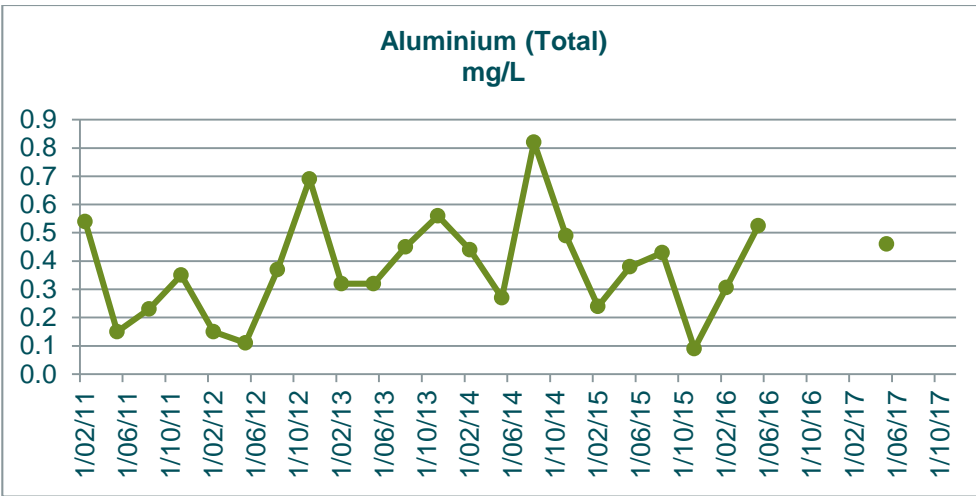
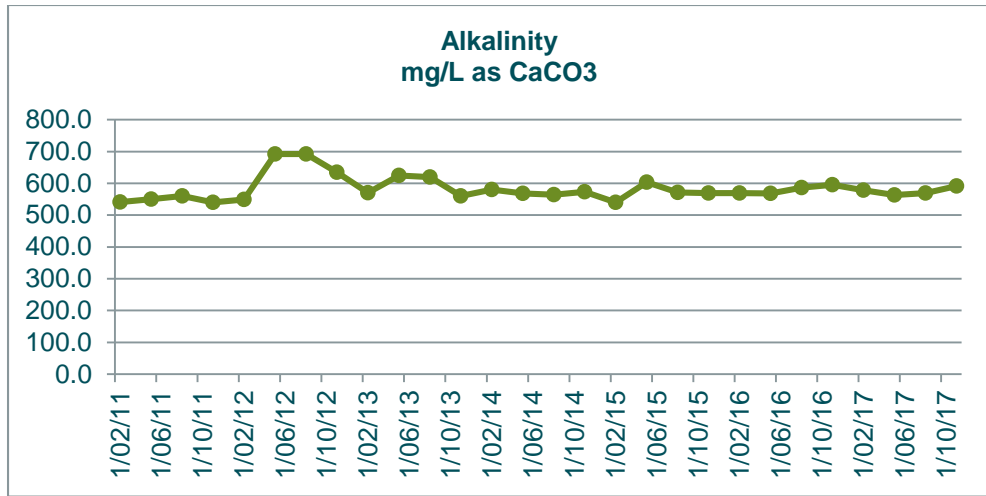
GW21	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L			
31/01/11																																								
10/05/11	38.0	0.1	0.1	0.0	23.0	1.8	0.0	12.0	273.0	0.0	0.0	0.0	556.0	0.0	1.3	0.1	2.7	0.0	12.0	0.0	0.0	0.1	0.1	0.1	0.2	5.3		0.1	5.0	178.0	57.0	8.0	19.9	0.1	1.0	23.0	0.0			
9/08/11	47.0	0.1	0.1	0.0	29.0	1.0	0.0	12.0	120.0	0.0	0.0	0.0	524.0	0.0	6.7	0.1	1.8	0.0	12.0	0.0	0.0	0.1	0.1	0.1	0.1	6.5		0.1	5.0	237.0	54.0	7.6	19.3	0.1	1.0	20.0	0.0			
8/11/11	44.0	0.3	0.0	0.0	27.0	2.1	0.0	15.0	146.0	0.0	0.0	0.0	487.0	0.0	2.1	0.1	11.0	0.0	16.0	0.0	0.0	0.0	0.0	0.1	6.0		0.1	8.0	96.2	43.0	9.0	20.5	0.1	1.8	64.0	0.0				
6/02/12	37.0	0.2	0.0	0.0	23.0	1.5	0.0	13.0	122.0	0.0	0.0	0.0	527.0	0.0	2.3	0.1	3.5	0.0	12.0	0.0	0.0	0.1	0.0	0.1	0.1	5.8		0.1	5.0	160.0	65.0	7.9	20.8	0.1	0.1	66.0	0.0			
8/05/12	36.0	0.0	0.0	0.0	22.0	1.0	0.0	13.0	120.0	0.0	0.0	0.0	511.0	0.0	3.2	0.1	0.1	0.0	13.0	1.6	0.0	0.1	0.0	0.1	0.1	5.9		0.2	5.0	193.0	62.0	10.0	20.3	0.1	0.5	63.0	0.0			
6/08/12	42.0	0.1	0.0	0.0	26.0	1.8	0.0	12.0	128.0	0.0	0.0	0.0	580.0	0.0	2.9	0.1	9.1	0.0	12.0	0.1	0.0	0.0	0.0	0.0	0.1	5.8		0.2	5.0	86.0	44.0	7.4	19.9	0.1	0.2	39.0	0.0			
13/11/12	55.0	0.1	0.0	0.0	34.0	2.8	0.0	13.0	120.0	0.0	0.0	0.0	533.0	0.0	1.9	0.1	6.7	0.0	13.0	0.1	0.0	0.0	0.0	0.0	0.1	6.1		0.0	5.0	39.0	53.0	5.9	20.4	0.1	0.3	69.0	0.0			
13/02/13	40.0	0.4	0.1	0.0	24.0	1.5	0.0	14.0	130.0	0.0	0.0	0.0	582.0	0.0	0.5	0.1	1.3	0.0	13.0	0.0	0.0	0.1	0.0	0.1	5.7		0.0	5.0	83.0	58.0	7.6	20.2	0.1	0.2	46.0	0.0				
14/05/13	39.0	0.1	0.0	0.0	24.0	1.0	0.0	14.0	130.0	0.0	0.0	0.0	551.0	0.0	3.1	0.1	1.2	0.0	12.0	0.0	0.0	0.1	0.0	0.1	5.9		0.0	5.0	68.0	55.0	7.3	20.6	0.1	0.2	78.0	0.0				
6/08/13	42.0	0.2	0.0	0.0	26.0	4.5	0.0	16.0	120.0	0.0	0.0	0.0	578.0	0.0	0.6	0.1	3.6	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.1	5.8		0.0	5.0	98.0	63.0	8.8	19.9	0.1	0.2	130.0	0.0			
12/11/13	37.0	0.3	0.0	0.0	23.0	1.0	0.0	15.0	132.0	0.0	0.0	0.0	543.0	0.0	5.2	0.1	1.9	0.0	15.0	0.0	0.0	0.1	0.0	0.1	0.2	6.0		0.1	5.0	787.0	64.0	9.4	20.4	0.1	0.2	21.0	0.1			
11/02/14	56.0	0.1	0.1	0.0	34.0	2.7	0.0	19.0	128.0	0.0	0.0	0.0	536.0	0.0	1.0	0.1	6.8	0.0	15.0	0.1	0.0	0.1	0.0	0.1	0.2	6.1		0.0	5.0	11.0	75.0	13.0	20.5	0.1	0.2	193.0	0.0			
13/05/14	44.0	0.2	0.0	0.0	27.0	1.2	0.0	12.0	132.0	0.0	0.0	0.0	561.0	0.0	2.2	0.1	2.8	0.0	13.0	0.0	0.0	0.1	0.0	0.1	0.1	5.9		0.1	5.0	52.0	55.0	6.6	20.8	0.1	0.2	64.0	0.0			
12/08/14	50.0	0.0	0.0	0.0	30.0	1.5	0.0	16.0	130.0	0.0	0.0	0.0	548.0	0.0	3.2	0.1	2.9	0.0	15.0	0.0	0.0	0.1	0.0	0.1	0.1	6.2		0.0	5.0	48.0	63.0	7.0	19.9	0.1	0.2	120.0	0.0			
10/11/14	64.0	1.5	0.1	0.0	39.0	3.0	0.0	16.0	132.0	0.0	0.0	0.0	562.0	0.0	1.8	0.1	8.8	0.0	16.0	0.1	0.0	0.1	0.0	0.1	0.2	6.3		0.0	5.0	3.0	64.0	5.8	20.7	0.1	0.2	148.0	0.0			
9/02/15	38.0	0.2	0.0	0.0	23.0	1.0	0.0	13.0	130.0	0.0	0.0	0.0	526.0	0.0	1.8	0.1	2.2	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.2	6.0		0.1	5.0	56.0	56.0	7.9	21.4	0.2	0.2	75.0	0.0			
11/05/15	40.0	0.3	0.0	0.0	24.0	1.0	0.0	15.0	132.0	0.0	0.0	0.0	568.0	0.0	2.4	0.1	6.6	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.1	6.0		0.2	5.0	61.0	62.0	8.0	20.5	0.1	0.2	79.0	0.0			
11/08/15	39.0	0.1	0.0	0.0	39.0	1.0	0.0	15.0	38.0	0.0	0.0	0.0	528.0	0.0	8.2	0.1	1.7	0.0	14.0	0.0	0.0	0.1	0.0	0.1	0.1	6.6		0.1	5.0	83.0	60.0	7.7	19.8	0.1	0.2	22.0	0.0			
10/11/15	55.0	0.1	0.0	0.0	55.0	1.0	0.0	16.0	128.0	0.0	0.0	0.0	471.0	0.0	1.5	0.1	4.0	0.0	14.0	0.1	0.0	0.0	0.0	0.0	0.1	6.1		0.0	5.0	-45.0	59.0	6.7	20.4	0.1	0.2	75.0	0.0			
8/02/16	490.0	0.1	0.0	0.0	490.0	1.2	0.0	15.1	131.0	0.0	0.0	0.0	552.0	0.0	1.0	0.1	3.5	0.0	13.9	0.1	0.0	0.0	0.0	0.0	0.1	6.1		0.0	5.0	57.0	59.3	6.5	20.6	0.1	0.2	107.0	0.0			
9/05/16	61.0	0.1	0.0	0.0	61.0	2.2	0.0	15.9	128.0	0.0	0.0	0.0	567.0	0.0	2.1	0.1	6.0	0.0	14.1	0.1	0.0	0.0	0.0	0.0	0.1	6.2		0.1	5.0	42.0	60.4	5.6	20.7	0.1	0.4	92.0	0.0			
9/08/16	40.0		0.0		40.0	1.0		14.2	132.0				530.3		3.9	0.1			13.5			0.1	0.0	0.1	0.1	5.8		0.1	5.0	140.0	60.0	8.4	20.1	0.1	0.3	91.5				
7/11/16	59.4		0.0		59.0	1.8		17.1	135.0				561.8		1.6	0.1			15.0			0.0	0.0	0.0	0.1	6.0		0.0	5.0	163.0	62.8	6.6	20.4	0.1	0.5	86.7				
7/02/17	68.2		0.1		68.0	3.6		15.8	135.0				582.8		1.6	0.1			14.3			0.0	0.0	0.0	0.3	6.0		0.1	5.0	102.2	60.8	5.1	20.6	0.3	2.0	129.0				
8/05/17	41.5	0.0	0.0	0.0	42.0	1.0	0.0	14.5	132.0	0.0	0.0	0.0	540.5	0.0	2.0	0.1	1.6	0.0	13.6	0.1	0.0	0.0	0.0	0.0	0.1	5.7		0.1	5.0	202.3	58.0	9.1	20.6	0.1	0.3	63.5	0.0			
8/08/17	37.8		0.0		38.0	1.0		14.2	115.0				539.5		5.3	0.1			13.5			0.1	0.0	0.1	0.1	5.9		0.0	5.0	346.2	59.2	7.7	20.1	0.1	0.5	36.1				
7/11/17	42.4		0.0		42.0	1.0		16.0	136.0				557.5		4.0	0.1			14.5			0.2	0.0	0.2	0.3	5.9		0.1	5.0	324.6	61.5	6.7	20.6	0.1	0.5	32.2				
2017 Min	37.8	0.0	0.0	0.0	38.0	1.0	0.0	14.2	115.0	0.0	0.0	0.0	539.5	0.0	1.6	0.1	1.6	0.0	13.5	0.1	0.0	0.0	0.0	0.0	0.1	5.7		0.0	5.0	102.2	58.0	5.1	20.1	0.1	0.3	32.2	0.0			
2017 Max	68.2	0.0	0.1	0.0	68.0	3.6	0.0	16.0	136.0	0.0	0.0	0.0	582.8	0.0	5.3	0.1	1.6	0.0	14.5	0.1	0.0	0.2	0.0	0.2	0.3	6.0		0.1	5.0	346.2	61.5	9.1	20.6	0.3	2.0	129.0	0.0			
2017 Mean	47.5	0.0	0.0	0.0	47.5	1.7	0.0	15.1	129.5	0.0	0.0	0.0	555.1	0.0	3.2	0.1	1.6	0.0	14.0	0.1	0.0	0.1	0.0	0.1	0.2	5.9		0.1	5.0	243.8	59.9	7.1	20.5	0.1	0.8	65.2	0.0			

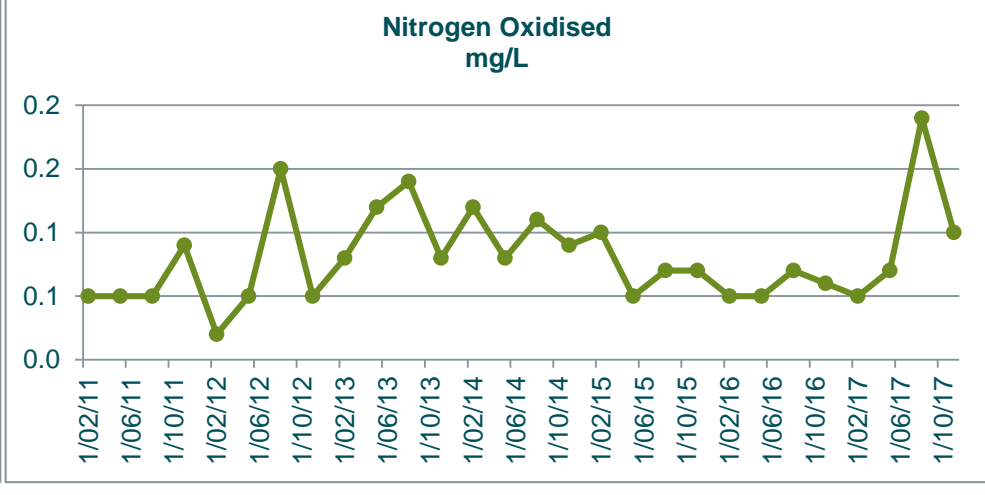
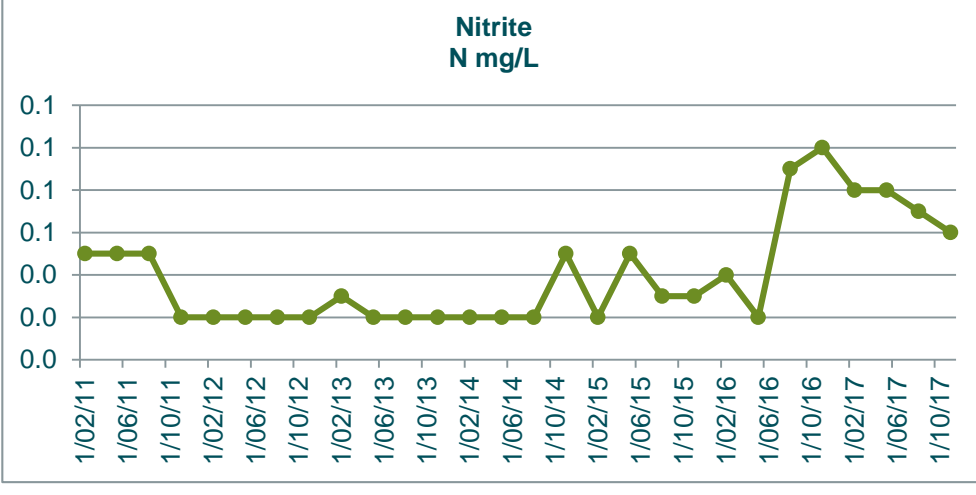
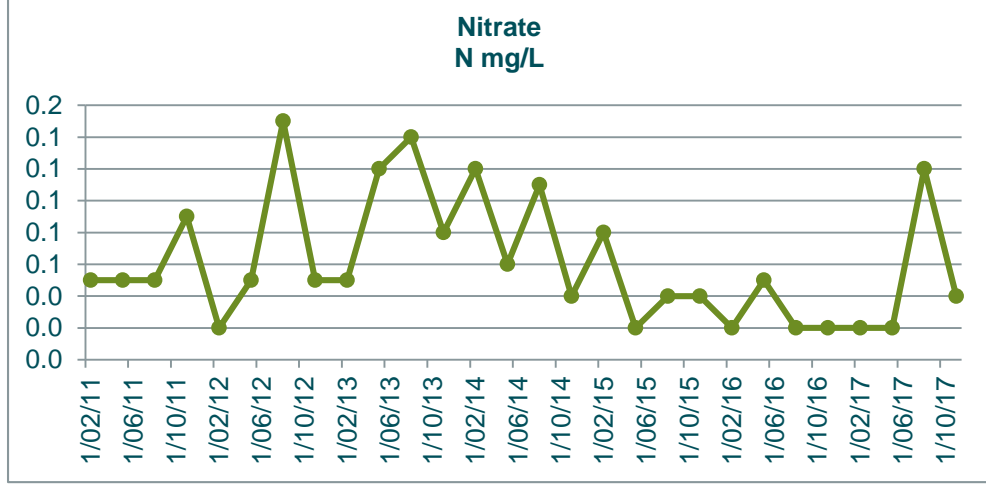
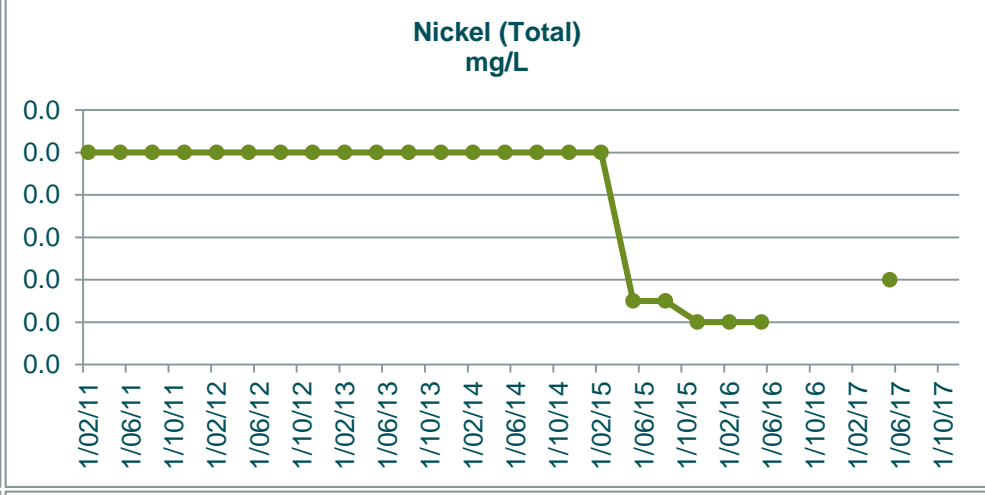
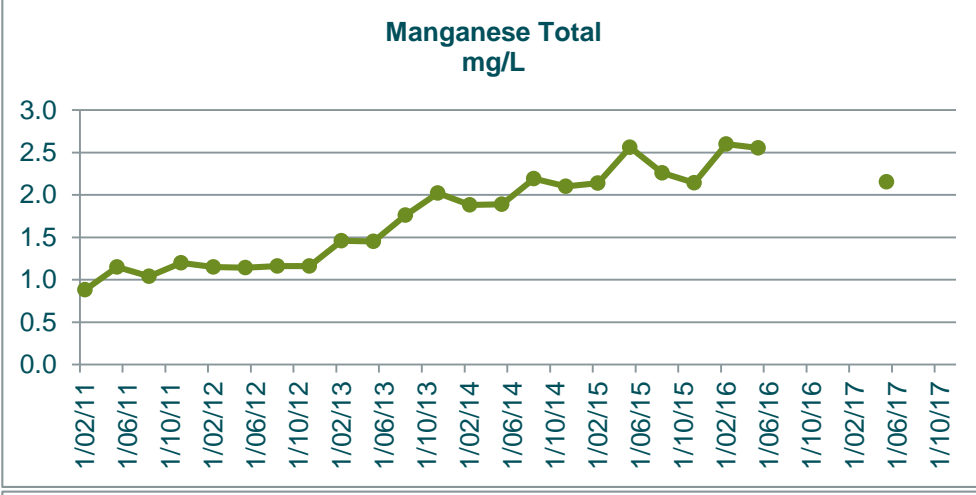
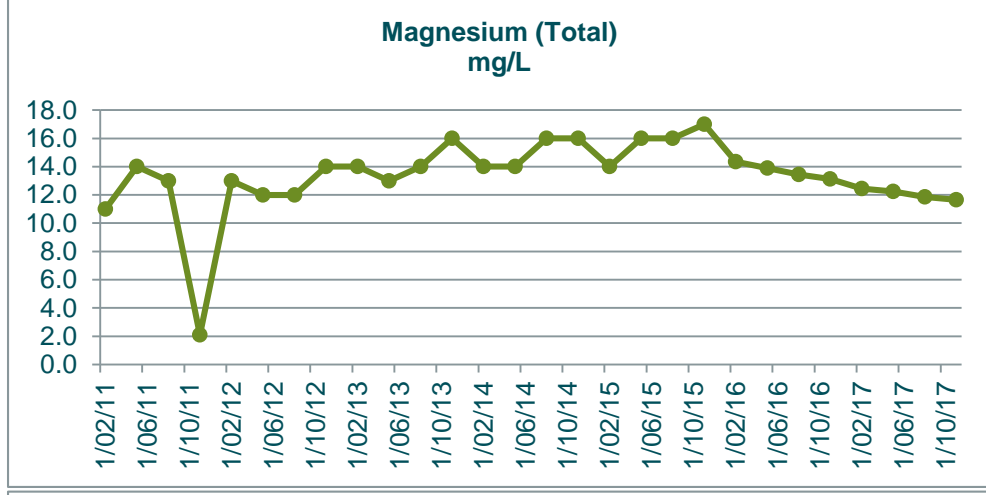
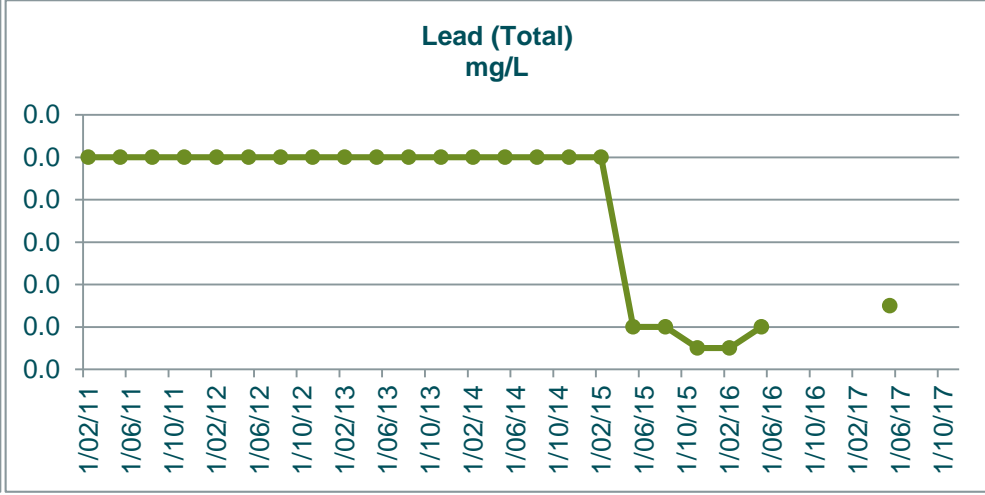
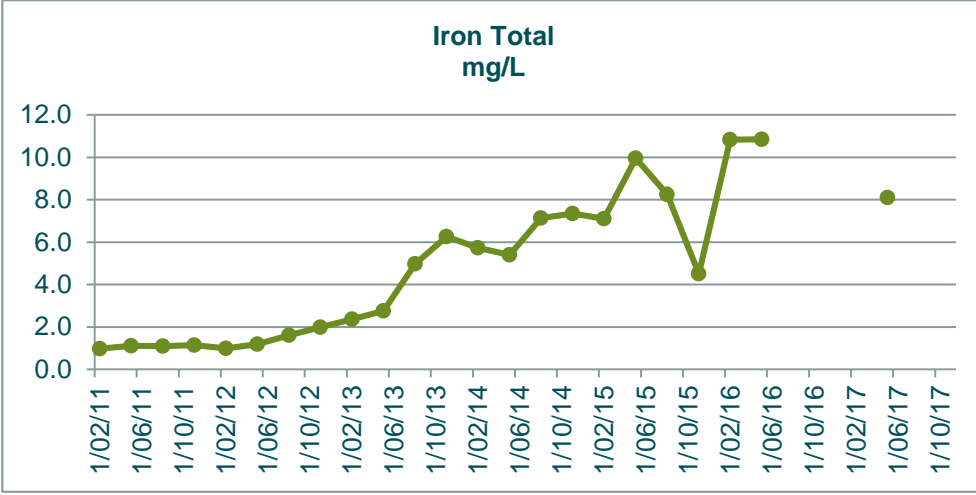
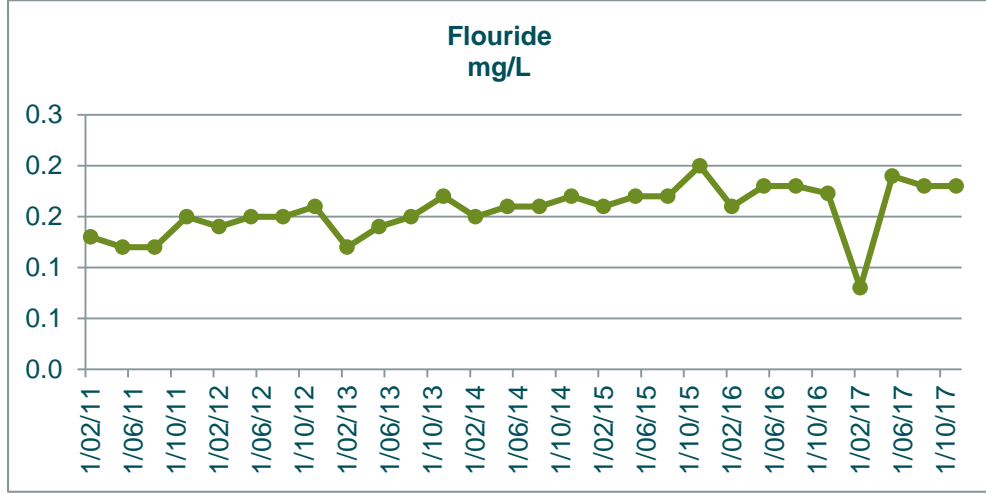
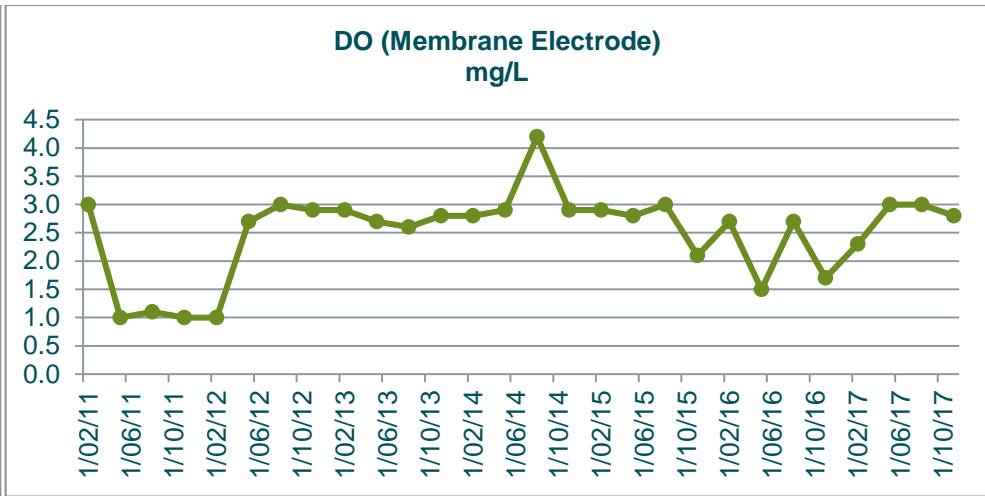
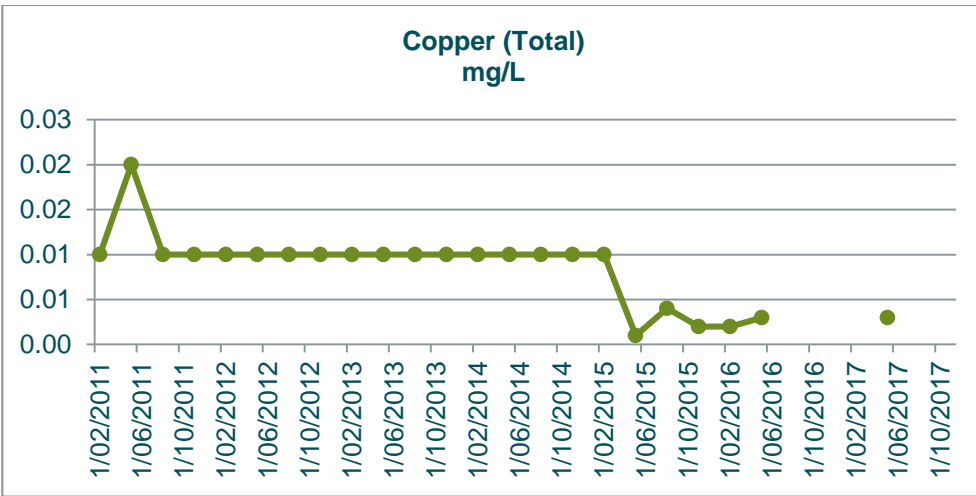
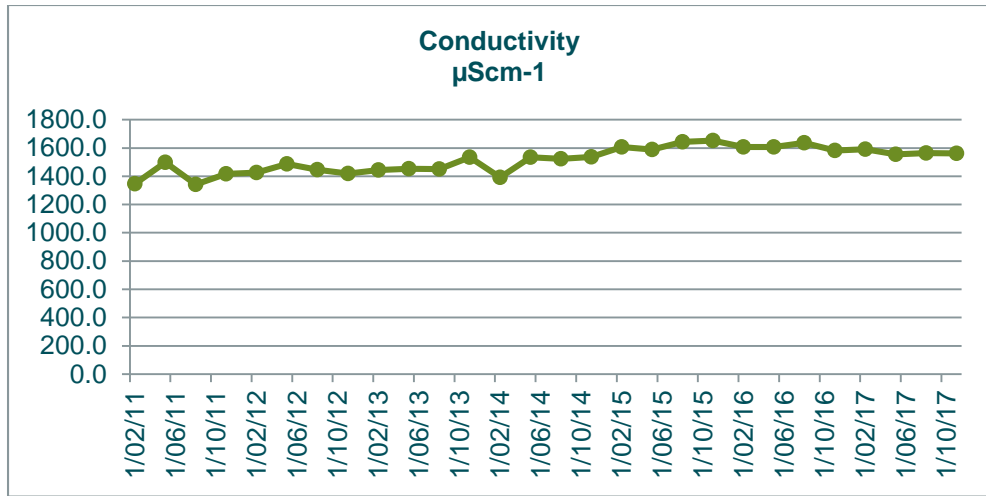


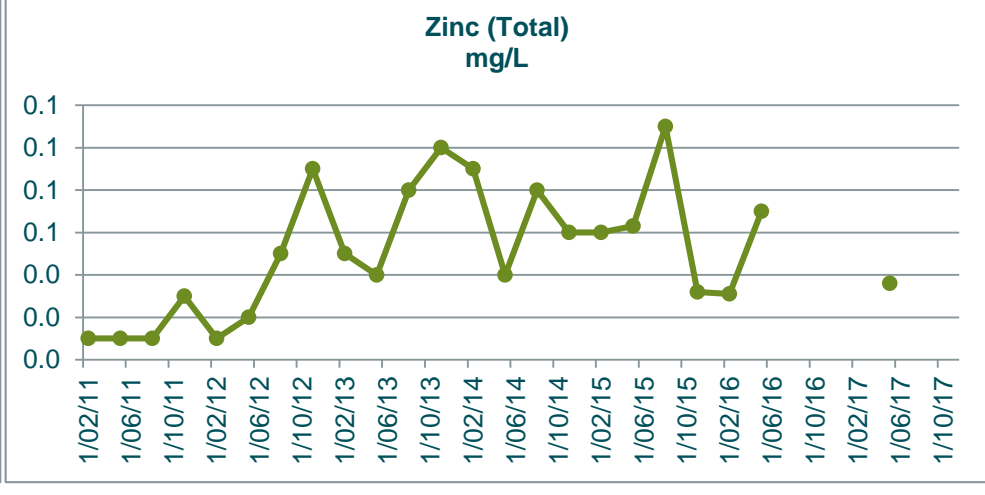
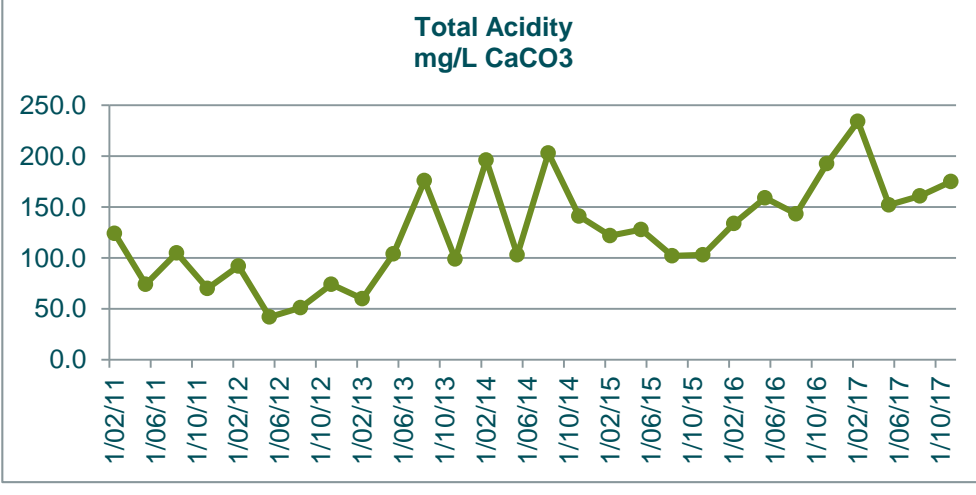
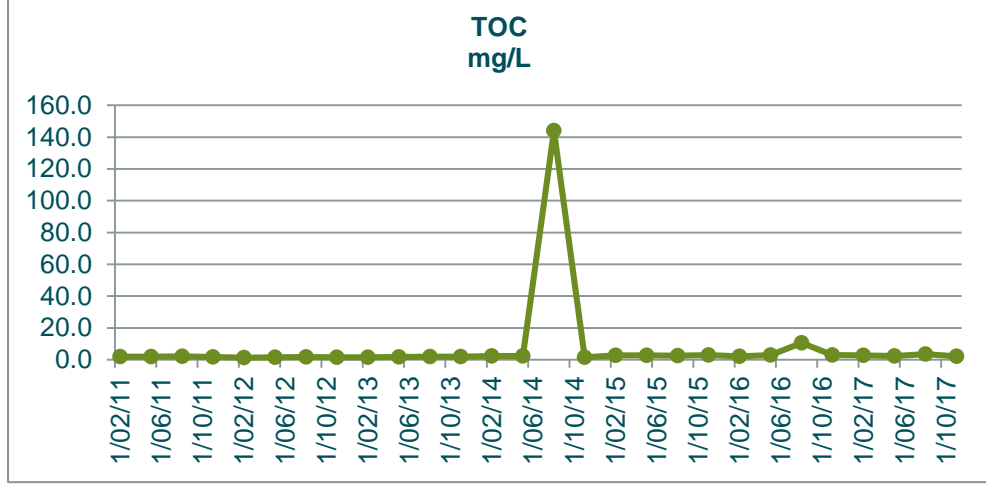
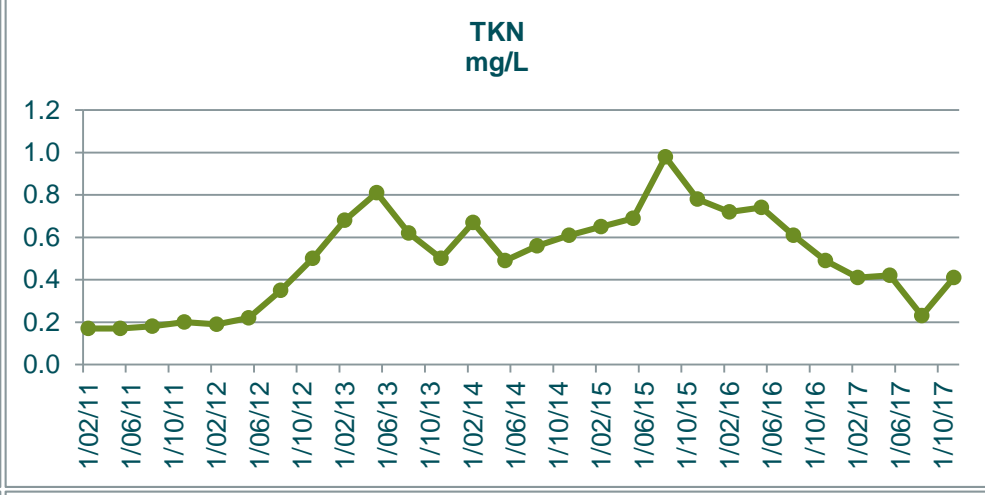
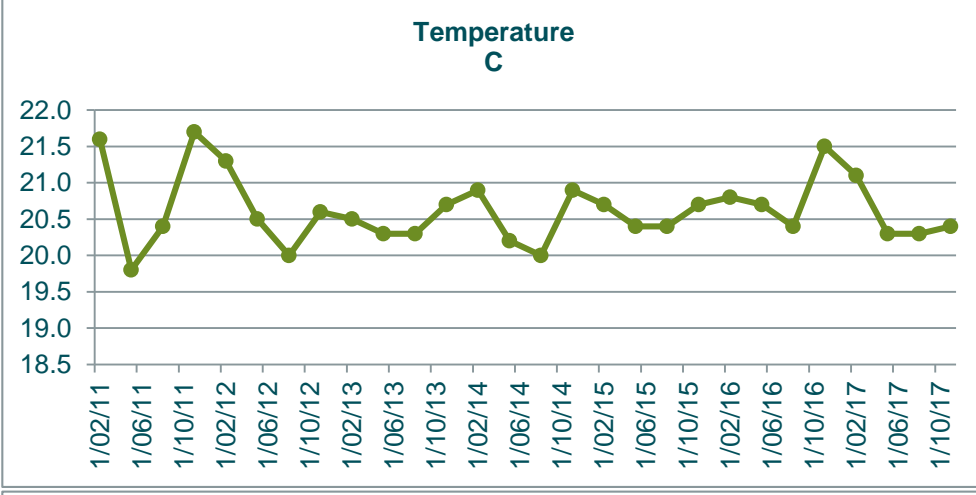
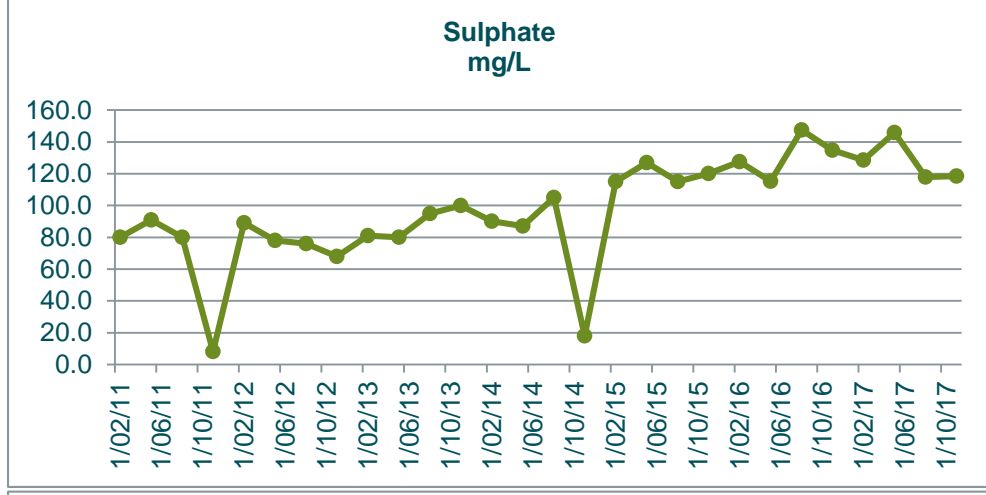
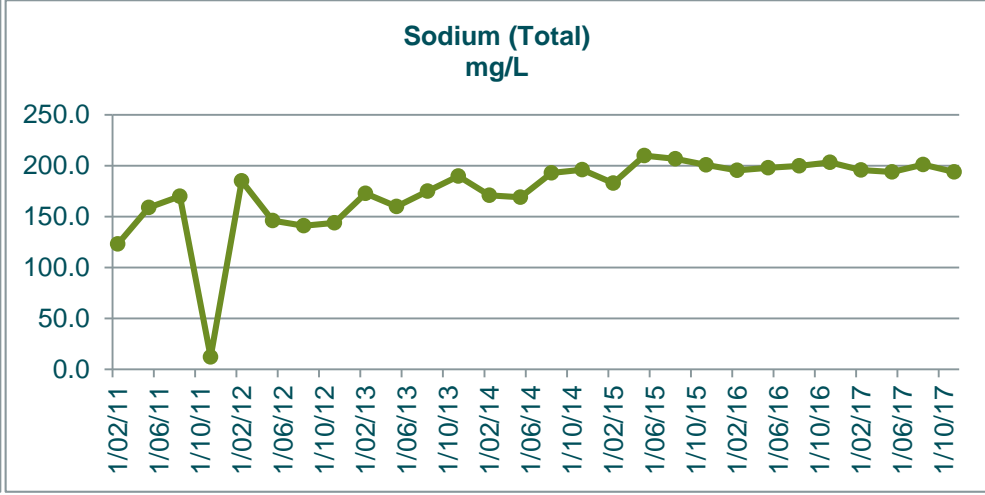
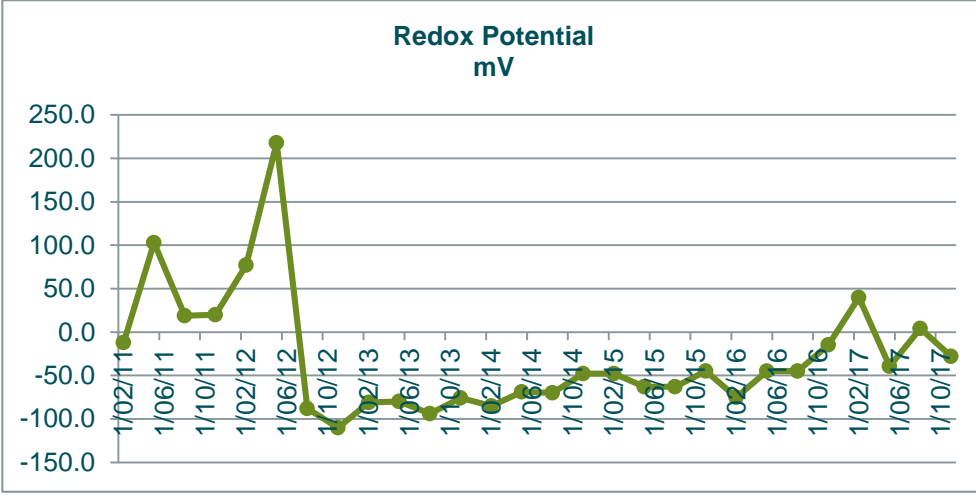
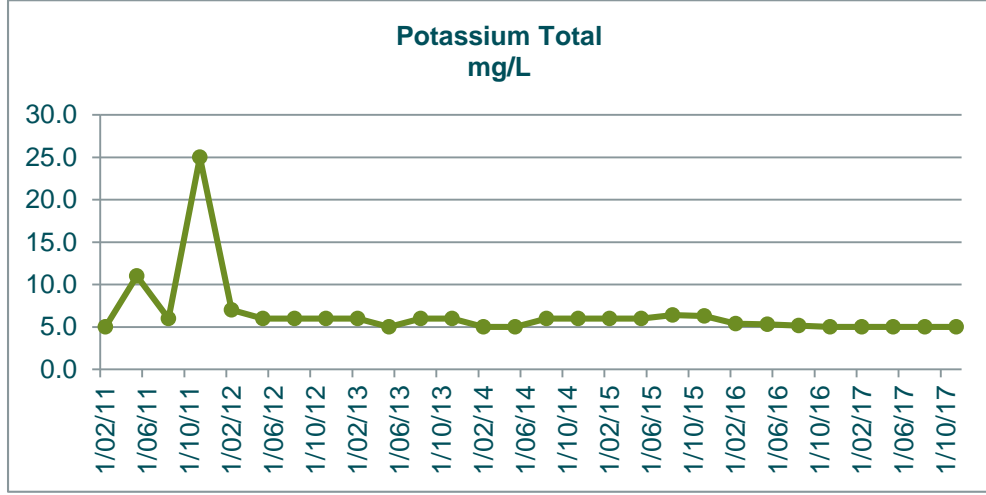
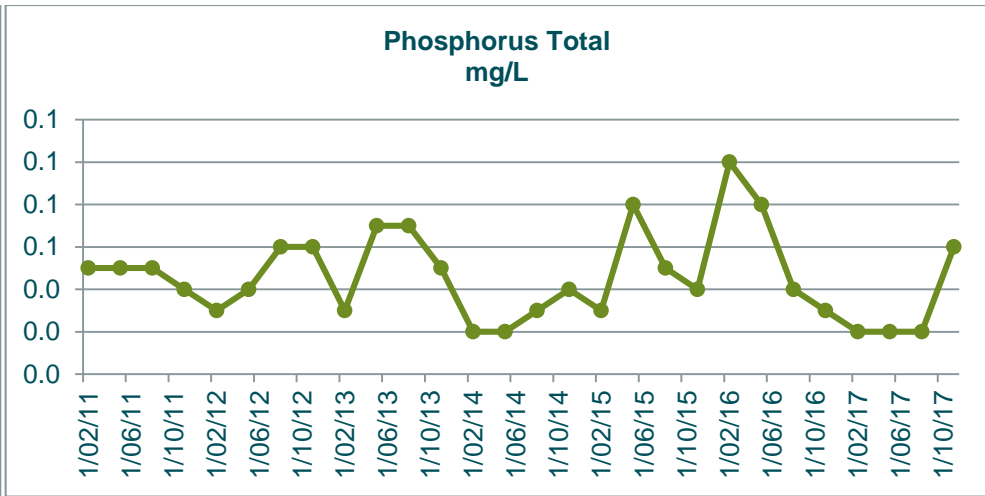
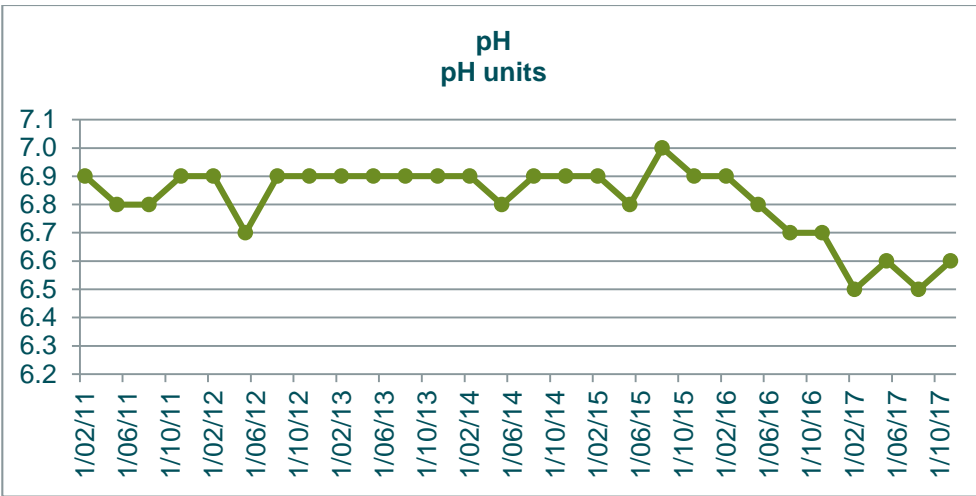
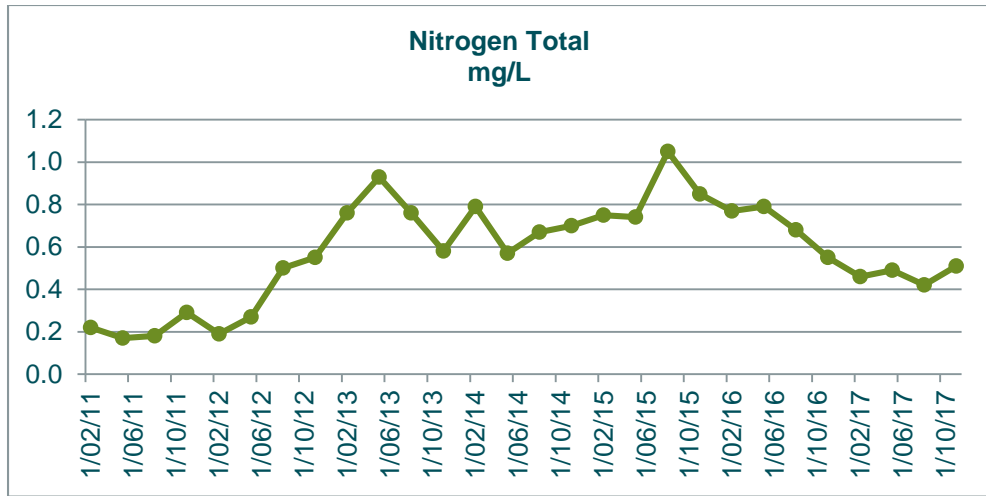




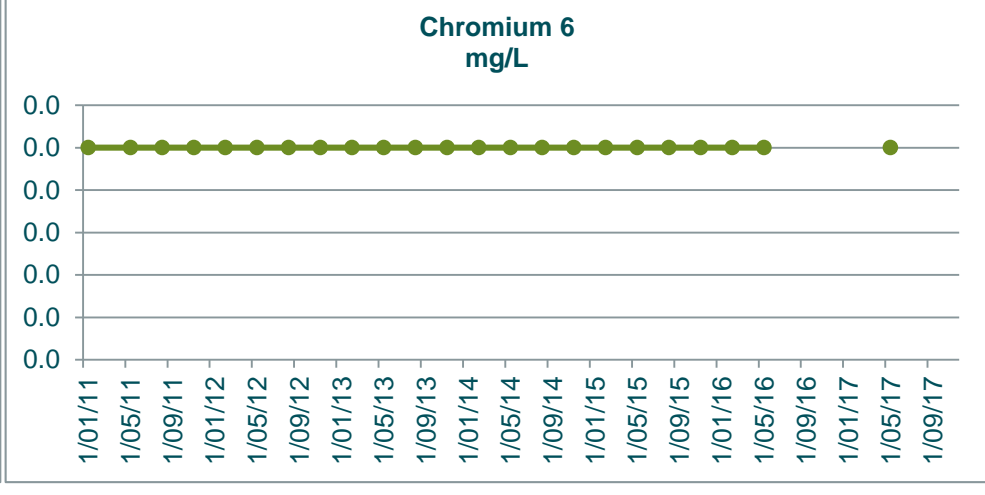
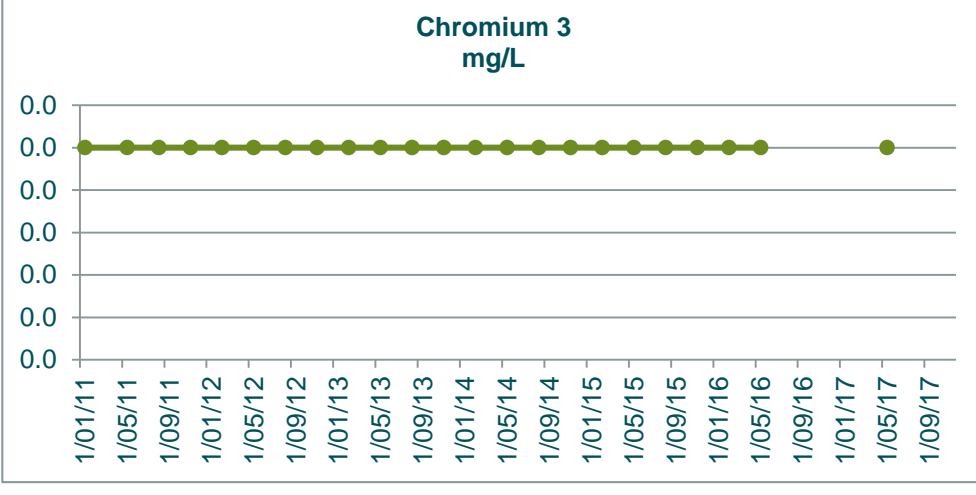
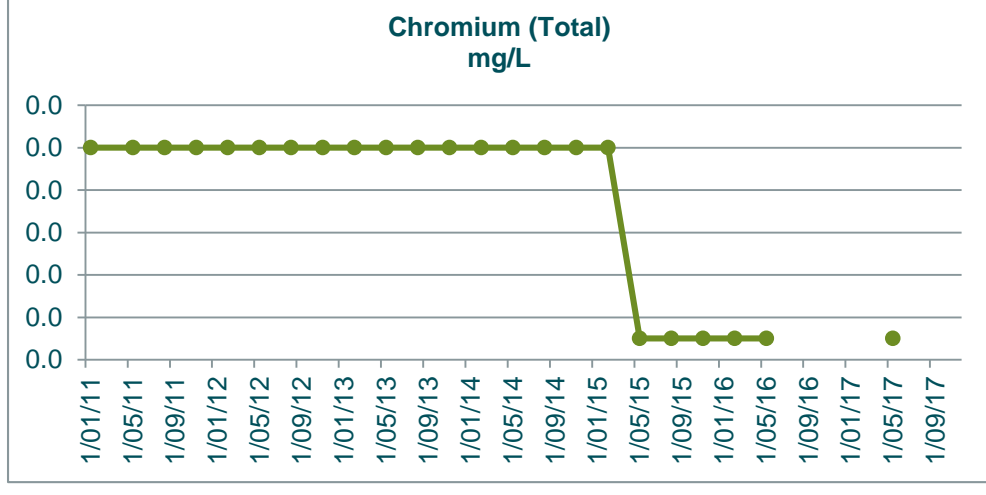
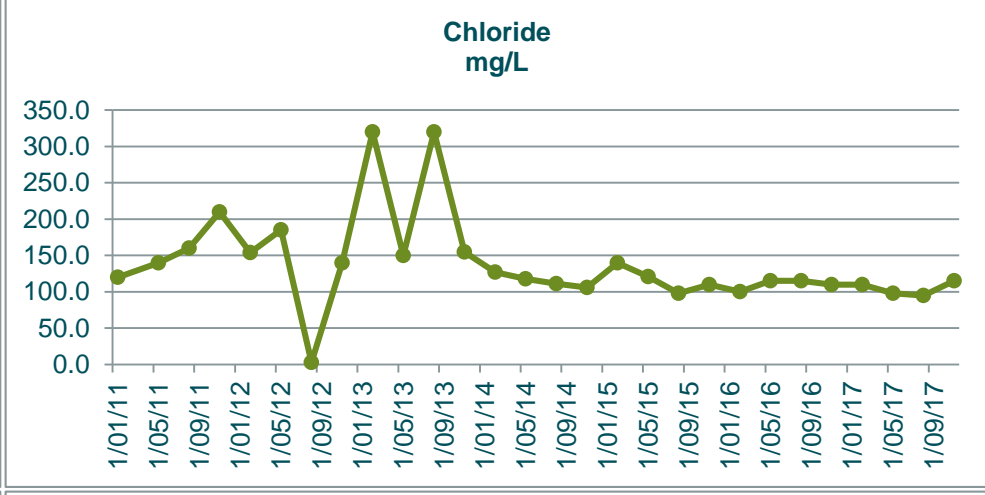
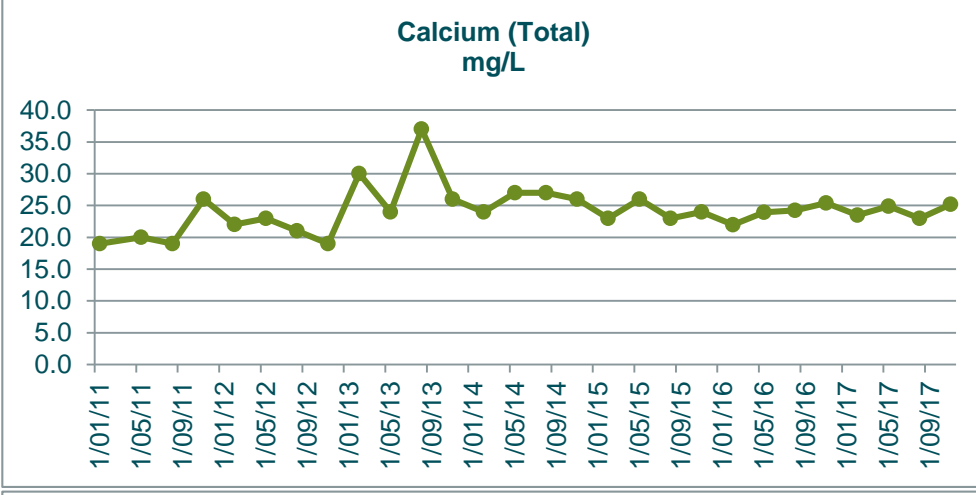
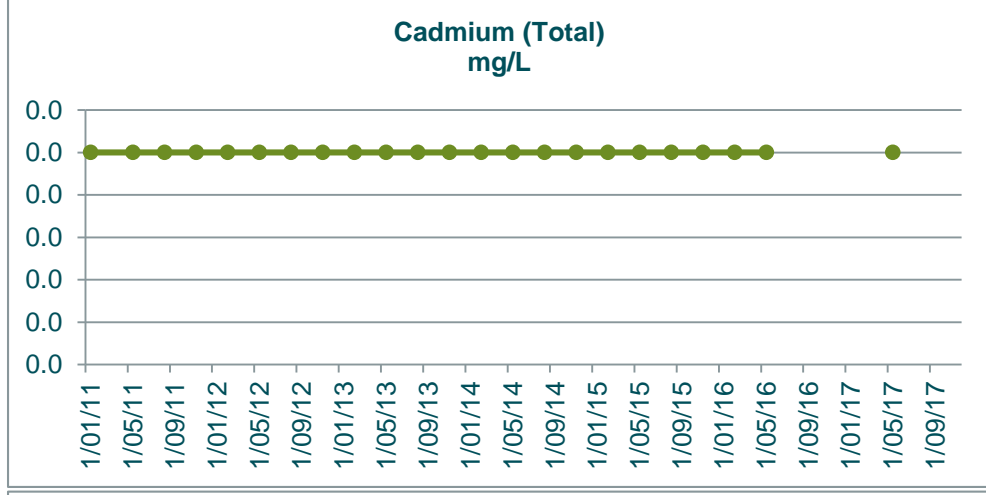
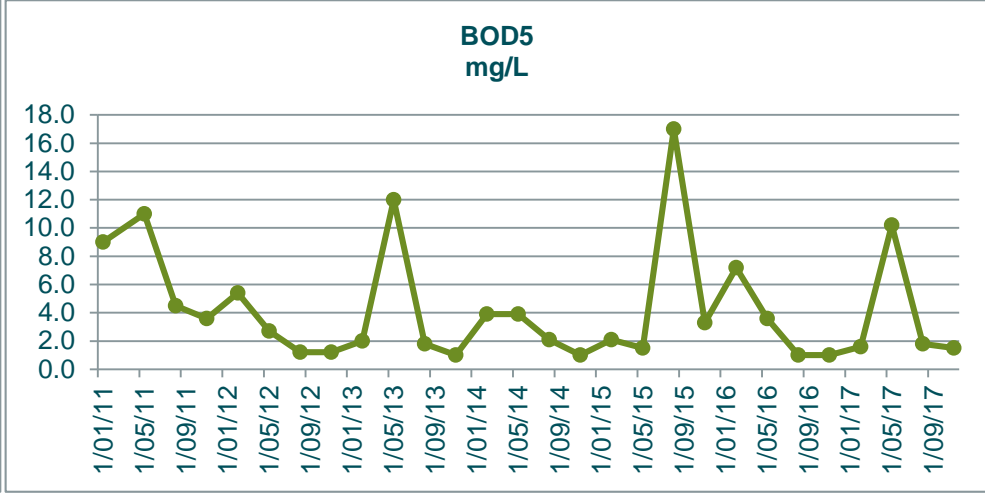
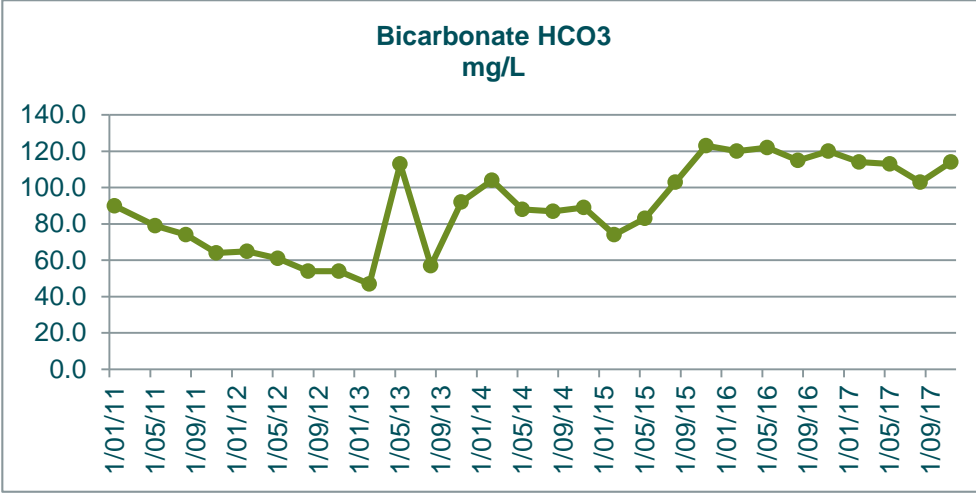
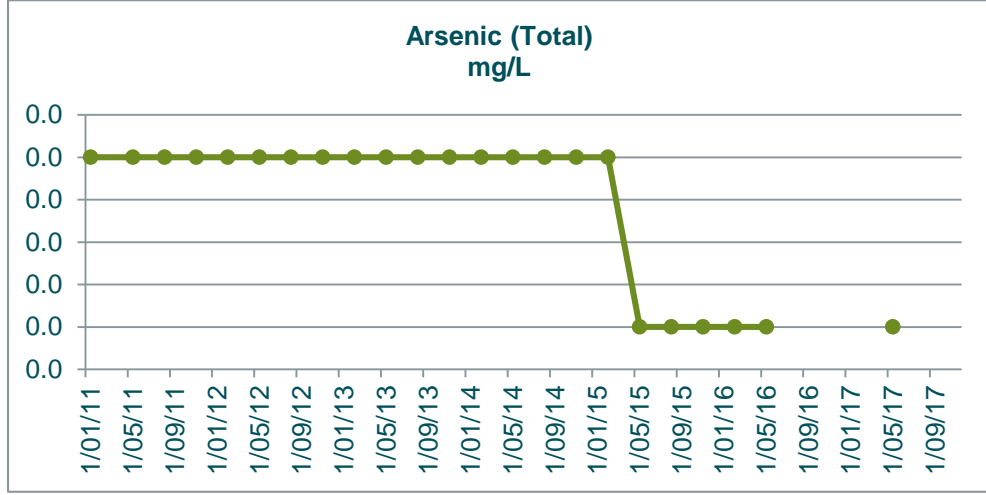
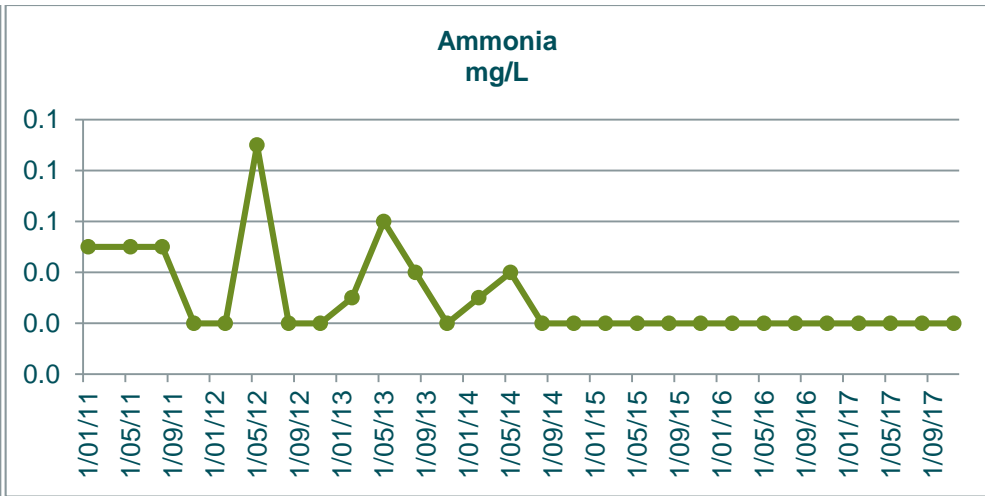
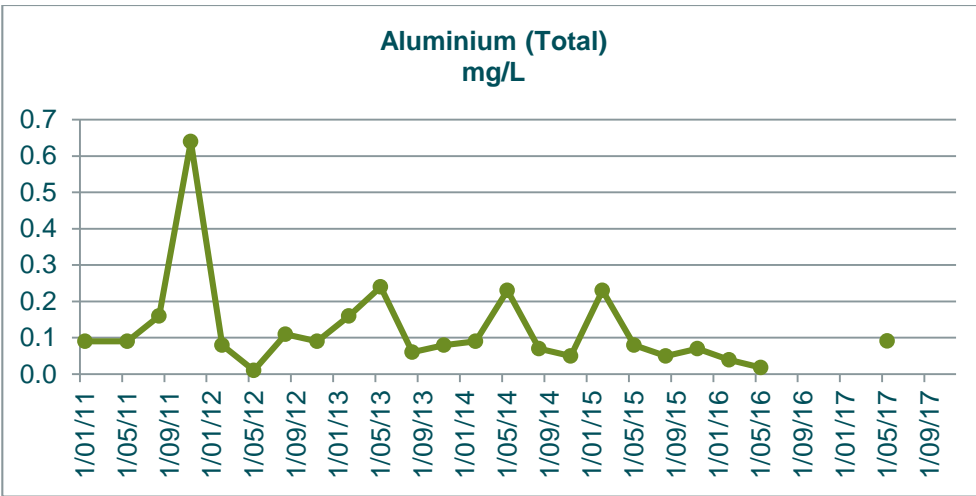
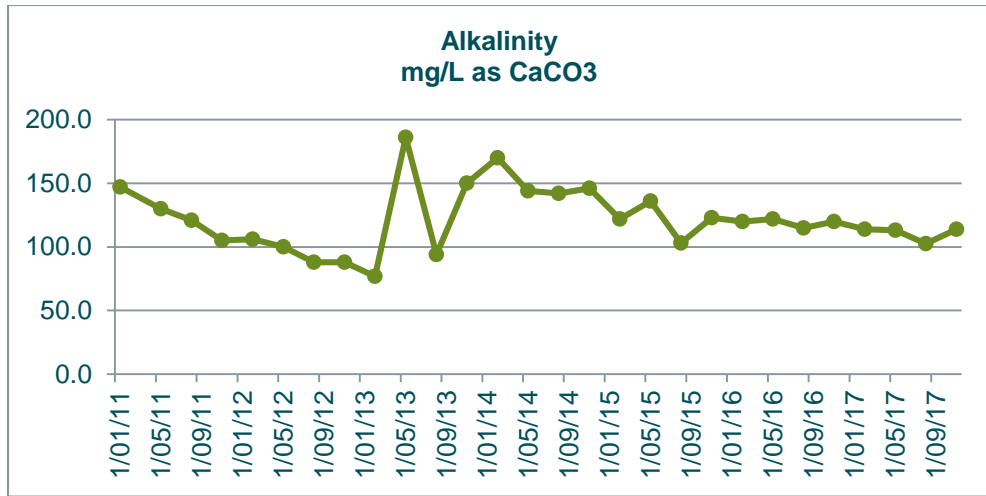
GW22	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L
1/02/11	541.0	0.5	0.2	0.0	330.0	1.0	0.0	118.0	105.0	0.0	0.0	0.0	1346.0	0.0	3.0	0.1	1.0	0.0	11.0	0.9	0.0	0.1	0.1	0.1	0.2	6.9		0.1	5.0	-12.0	123.0	80.0	21.6	0.2	1.9	124.0	0.0
11/05/11	550.0	0.2	0.1	0.0	336.0	1.0	0.0	136.0	98.0	0.0	0.0	0.0	1498.0	0.0	1.0	0.1	1.1	0.0	14.0	1.2	0.0	0.1	0.1	0.1	0.2	6.8		0.1	11.0	103.0	159.0	91.0	19.8	0.2	1.9	74.0	0.0
10/08/11	560.0	0.2	0.1	0.0	340.0	1.5	0.0	127.0	98.0	0.0	0.0	0.0	1343.0	0.0	1.1	0.1	1.1	0.0	13.0	1.0	0.0	0.1	0.1	0.1	0.2	6.8		0.1	6.0	19.0	170.0	80.0	20.4	0.2	2.2	105.0	0.0
9/11/11	540.0	0.4	0.2	0.0	329.0	1.0	0.0	0.8	110.0	0.0	0.0	0.0	1416.0	0.0	1.0	0.2	1.1	0.0	2.1	1.2	0.0	0.1	0.0	0.1	0.3	6.9		0.0	25.0	20.0	12.0	8.2	21.7	0.2	1.7	70.0	0.0
7/02/12	549.0	0.2	0.1	0.0	335.0	1.2	0.0	138.0	91.0	0.0	0.0	0.0	1425.0	0.0	1.0	0.1	1.0	0.0	13.0	1.2	0.0	0.0	0.0	0.0	0.2	6.9		0.0	7.0	77.0	185.0	89.0	21.3	0.2	1.2	92.0	0.0
9/05/12	692.0	0.1	0.2	0.0	422.0	1.0	0.0	131.0	85.0	0.0	0.0	0.0	1488.0	0.0	2.7	0.2	1.2	0.0	12.0	1.1	0.0	0.1	0.0	0.1	0.3	6.7		0.0	6.0	218.0	146.0	78.0	20.5	0.2	1.5	42.0	0.0
7/08/12	692.0	0.4	0.2	0.0	422.0	1.5	0.0	126.0	68.0	0.0	0.0	0.0	1447.0	0.0	3.0	0.2	1.6	0.0	12.0	1.2	0.0	0.2	0.0	0.2	0.5	6.9		0.1	6.0	-88.0	141.0	76.0	20.0	0.4	1.6	51.0	0.1
14/11/12	635.0	0.7	0.3	0.0	387.0	1.0	0.0	131.0	96.0	0.0	0.0	0.0	1418.0	0.0	2.9	0.2	2.0	0.0	14.0	1.2	0.0	0.1	0.0	0.1	0.6	6.9		0.1	6.0	-	144.0	68.0	20.6	0.5	1.4	74.0	0.1
14/02/13	570.0	0.3	0.5	0.0	348.0	1.2	0.0	142.0	95.0	0.0	0.0	0.0	1444.0	0.0	2.9	0.1	2.4	0.0	14.0	1.5	0.0	0.1	0.0	0.1	0.8	6.9		0.0	6.0	-81.0	173.0	81.0	20.5	0.7	1.5	60.0	0.1
15/05/13	625.0	0.3	0.5	0.0	381.0	1.2	0.0	137.0	110.0	0.0	0.0	0.0	1453.0	0.0	2.7	0.1	2.8	0.0	13.0	1.5	0.0	0.1	0.0	0.1	0.9	6.9		0.1	5.0	-80.0	160.0	80.0	20.3	0.8	1.7	104.0	0.0
7/08/13	620.0	0.5	0.4	0.0	378.0	1.0	0.0	141.0	96.0	0.0	0.0	0.0	1451.0	0.0	2.6	0.2	5.0	0.0	14.0	1.8	0.0	0.1	0.0	0.1	0.8	6.9		0.1	6.0	-94.0	175.0	95.0	20.3	0.6	2.0	176.0	0.1
13/11/13	560.0	0.6	0.3	0.0	342.0	1.2	0.0	145.0	97.0	0.0	0.0	0.0	1535.0	0.0	2.8	0.2	6.3	0.0	16.0	2.0	0.0	0.1	0.0	0.1	0.6	6.9		0.1	6.0	-76.0	190.0	100.0	20.7	0.5	2.0	99.0	0.1
12/02/14	580.0	0.4	0.3	0.0	354.0	1.2	0.0	127.0	99.0	0.0	0.0	0.0	1391.0	0.0	2.8	0.2	5.7	0.0	14.0	1.9	0.0	0.1	0.0	0.1	0.8	6.9		0.0	5.0	-85.0	171.0	90.0	20.9	0.7	2.4	196.0	0.1
14/05/14	568.0	0.3	0.3	0.0	346.0	1.0	0.0	122.0	110.0	0.0	0.0	0.0	1534.0	0.0	2.9	0.2	5.4	0.0	14.0	1.9	0.0	0.1	0.0	0.1	0.6	6.8		0.0	5.0	-69.0	169.0	87.0	20.2	0.5	2.4	103.0	0.0
13/08/14	564.0	0.8	0.3	0.0	344.0	1.8	0.0	146.0	115.0	0.0	0.0	0.0	1524.0	0.0	4.2	0.2	7.1	0.0	16.0	2.2	0.0	0.1	0.0	0.1	0.7	6.9		0.0	6.0	-70.0	193.0	105.0	20.0	0.6	144.0	203.0	0.1
11/11/14	573.0	0.5	0.3	0.0	350.0	1.8	0.0	138.0	120.0	0.0	0.0	0.0	1537.0	0.0	2.9	0.2	7.4	0.0	16.0	2.1	0.0	0.0	0.1	0.1	0.7	6.9		0.0	6.0	-48.0	196.0	18.0	20.9	0.6	1.4	141.0	0.1
10/02/15	540.0	0.2	0.4	0.0	329.0	1.0	0.0	115.0	130.0	0.0	0.0	0.0	1606.0	0.0	2.9	0.2	7.1	0.0	14.0	2.1	0.0	0.1	0.0	0.1	0.8	6.9		0.0	6.0	-48.0	183.0	115.0	20.7	0.7	2.8	122.0	0.1
12/05/15	604.0	0.4	0.3	0.0	368.0	1.5	0.0	144.0	121.0	0.0	0.0	0.0	1588.0	0.0	2.8	0.2	10.0	0.0	16.0	2.6	0.0	0.0	0.1	0.1	0.7	6.8		0.1	6.0	-63.0	210.0	127.0	20.4	0.7	2.8	128.0	0.1
12/08/15	571.0	0.4	0.5	0.0	571.0	1.8	0.0	139.0	132.0	0.0	0.0	0.0	1643.0	0.0	3.0	0.2	8.3	0.0	16.0	2.3	0.0	0.0	0.0	0.1	1.1	7.0		0.1	6.4	-63.0	207.0	115.0	20.4	1.0	2.5	102.0	0.1
11/11/15	569.0	0.1	0.5	0.0	569.0	1.0	0.0	133.0	142.0	0.0	0.0	0.0	1653.0	0.0	2.1	0.2	4.5	0.0	17.0	2.1	0.0	0.0	0.0	0.1	0.9	6.9		0.0	6.3	-45.0	201.0	120.0	20.7	0.8	3.0	103.0	0.0
9/02/16	569.0	0.3	0.3	0.0	569.0	1.2	0.0	135.2	120.0	0.0	0.0	0.0	1606.0	0.0	2.7	0.2	10.8	0.0	14.3	2.6	0.0	0.0	0.0	0.1	0.8	6.9		0.1	5.4	-75.0	195.4	127.5	20.8	0.7	2.0	134.0	0.0
10/05/16	568.0	0.5	0.3	0.0	568.0	2.4	0.0	140.7	115.0	0.0	0.0	0.0	1607.0	0.0	1.5	0.2	10.9	0.0	13.9	2.6	0.0	0.1	0.0	0.1	0.8	6.8		0.1	5.3	-45.0	198.0	115.3	20.7	0.7	2.9	159.0	0.1
10/08/16	586.0		0.3		586.0	2.4		137.1	105.0				1637.5	NT	2.7	0.2			13.4			0.0	0.1	0.1	0.7	6.7		0.0	5.2	-45.0	200.0	147.5	20.4	0.6	10.7	143.2	
8/11/16	595.0		0.3		595.0	1.2		140.4	105.0				1582.7	NT	1.7	0.2			13.1			0.0	0.1	0.1	0.6	6.7		0.0	5.0	-14.8	203.4	134.7	21.5	0.5	2.9	192.6	
8/02/17	578.0		0.2		578.0	1.0		136.3	110.0				1590.5	NT	2.3	0.1			12.4			0.0	0.1	0.1	0.5	6.5		0.0	5.0	40.0	195.9	128.5	21.1	0.4	2.6	234.3	
9/05/17	563.0	0.5	0.2	0.0	563.0	1.2	0.0	136.1	115.0	0.0	0.0	0.0	1555.1	0.0	3.0	0.2	8.1	0.0	12.3	2.2	0.0	0.0	0.1	0.1	0.5	6.6		0.0	5.0	-39.3	193.9	145.9	20.3	0.4	2.3	152.0	0.0
9/08/17	569.1		0.1		569.0	2.4		138.3	325.0				1564.6	NT	3.0	0.2			11.9			0.1	0.1	0.2	0.4	6.5		0.0	5.0	4.1	201.2	118.0	20.3	0.2	3.5	160.8	
8/11/17	591.1		0.1		591.0	1.2		138.2	96.0				1560.7	NT	2.8	0.2			11.7			0.0	0.1	0.1	0.5	6.6		0.1	5.0	-28.1	194.0	118.4	20.4	0.4	2.1	175.0	
2017 Min	563.0	0.5	0.1	0.0	563.0	1.0	0.0	136.1	96.0	0.0	0.0	0.0	1555.1	0.0	2.3	0.1	8.1	0.0	11.7	2.2	0.0	0.0	0.1	0.1	0.4	6.5		0.0	5.0	-39.3	193.9	118.0	20.3	0.2	2.1	152.0	0.0
2017 Max	591.1	0.5	0.2	0.0	591.0	2.4	0.0	138.3	325.0	0.0	0.0	0.0	1590.5	0.0	3.0	0.2	8.1	0.0	12.4	2.2	0.0	0.1	0.1	0.2	0.5	6.6		0.1	5.0	40.0	201.2	145.9	21.1	0.4	3.5	234.3	0.0
2017 Mean	575.3	0.5	0.1	0.0	575.3	1.5	0.0	137.2	161.5	0.0	0.0	0.0	1567.7	0.0	2.8	0.2	8.1	0.0	12.1	2.2	0.0	0.1	0.1	0.1	0.5	6.6		0.0	5.0	-5.8	196.2	127.7	20.5	0.4	2.6	180.5	0.0

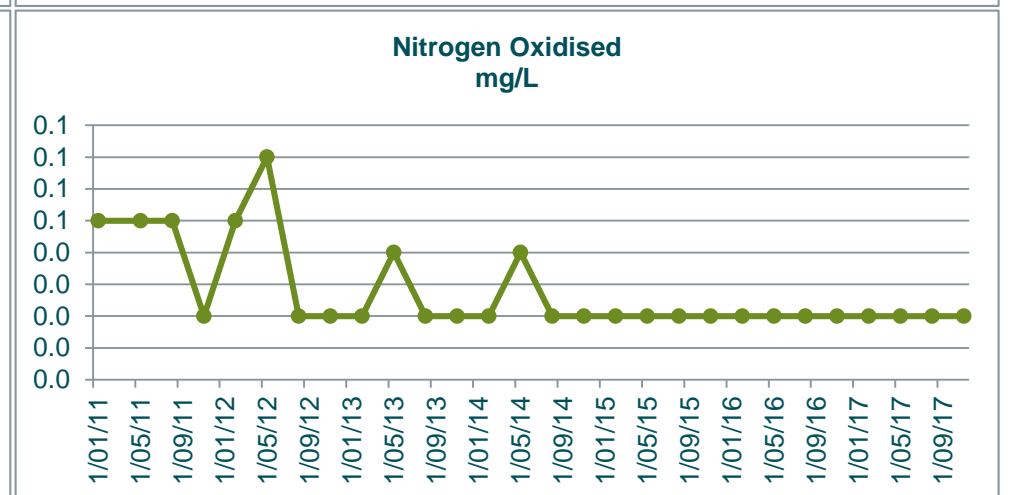
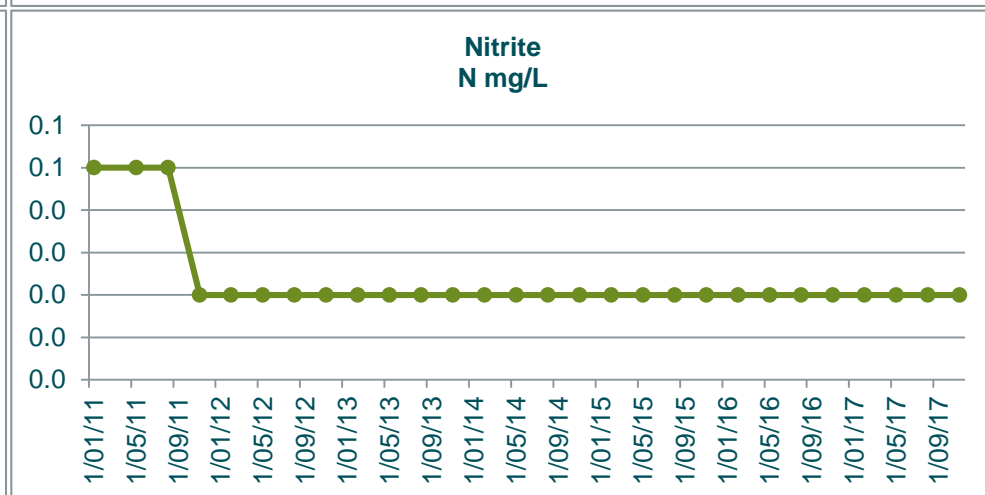
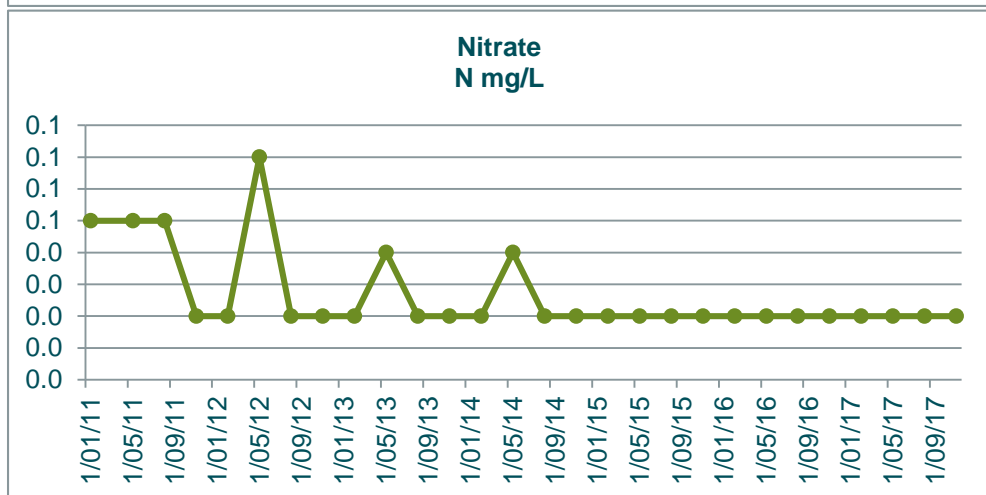
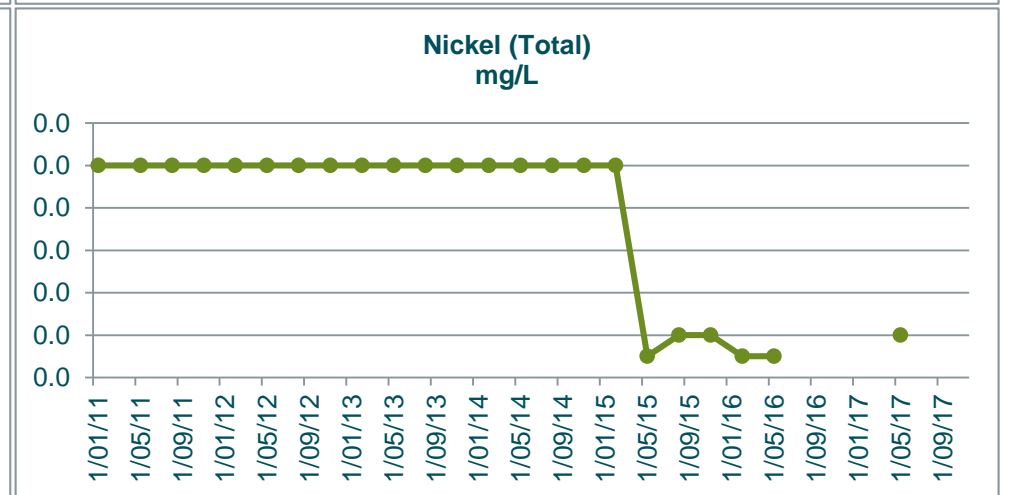
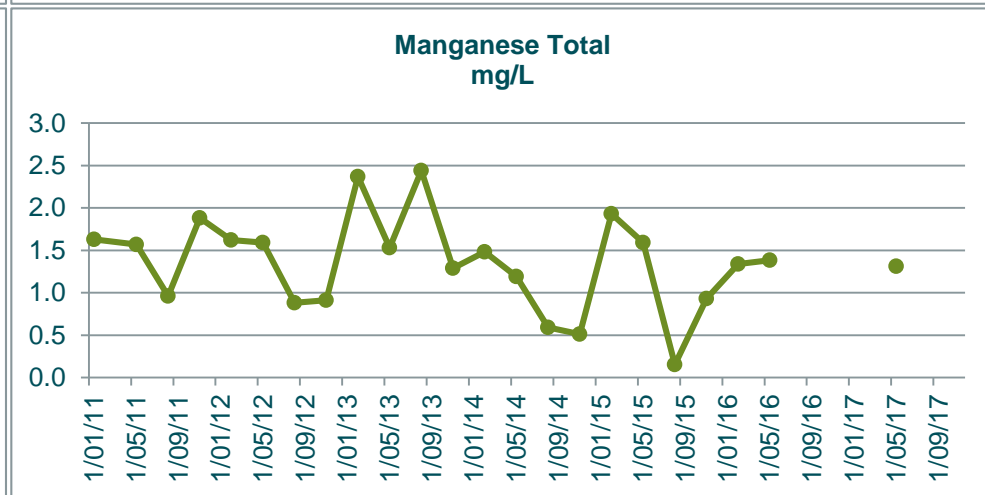
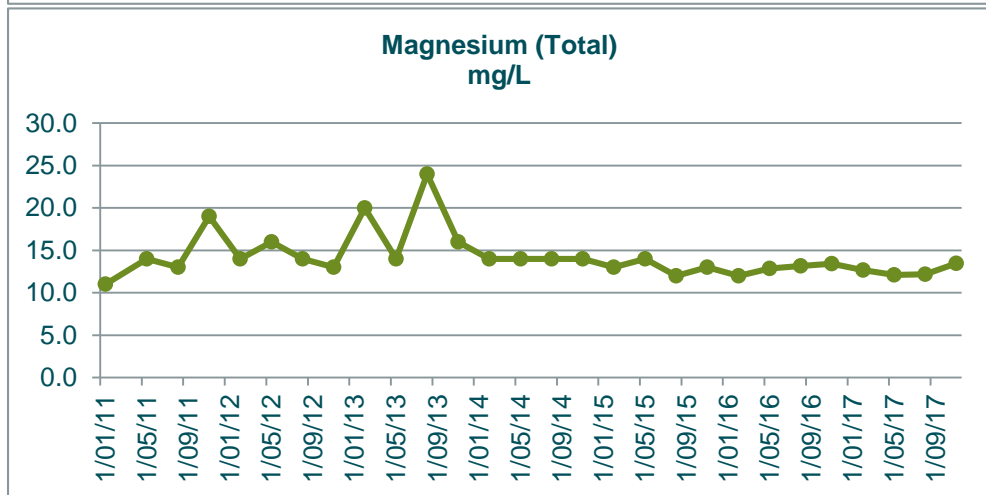
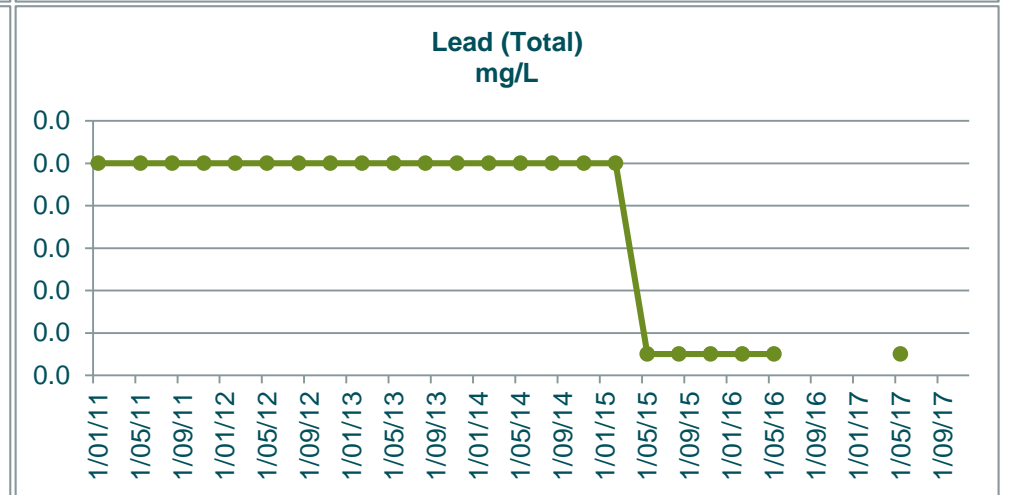
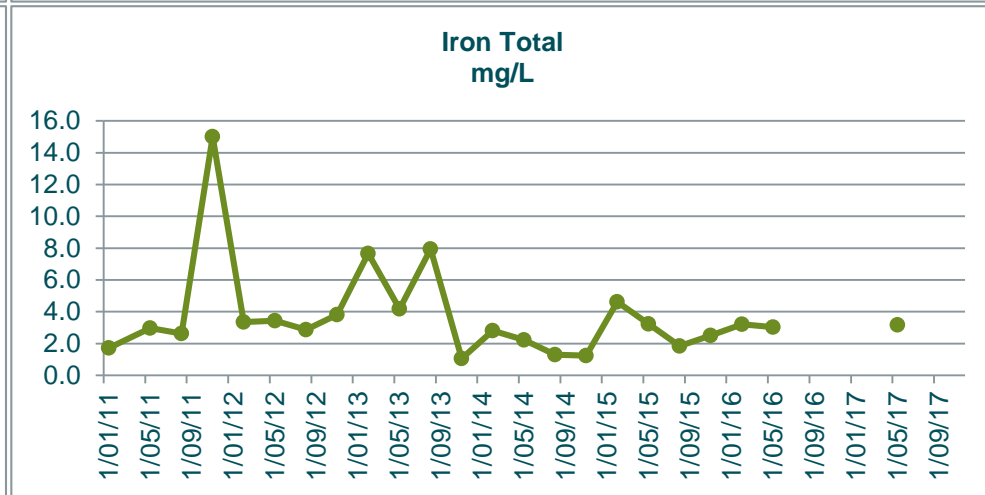
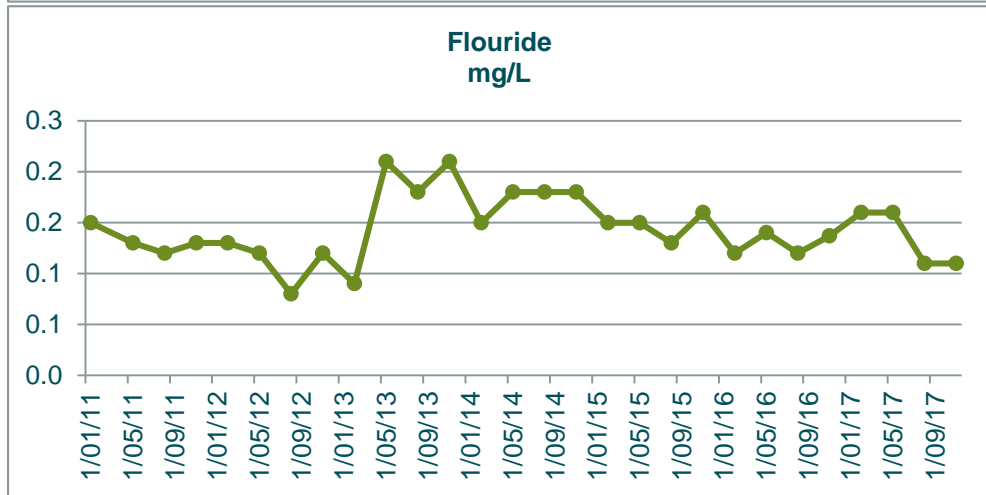
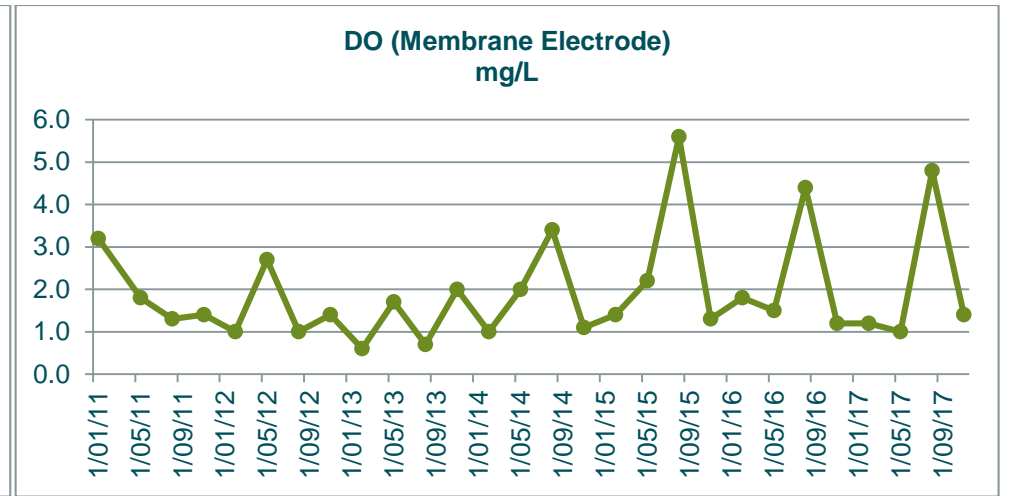
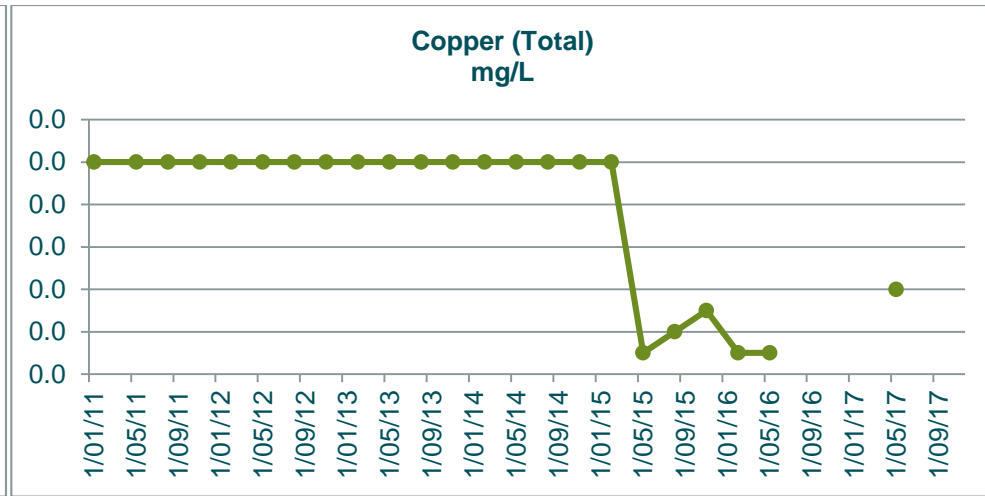
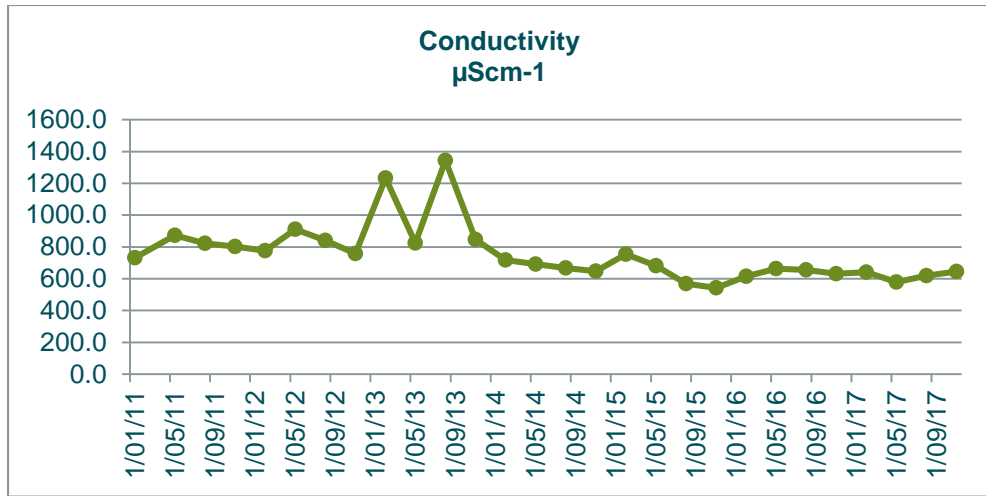


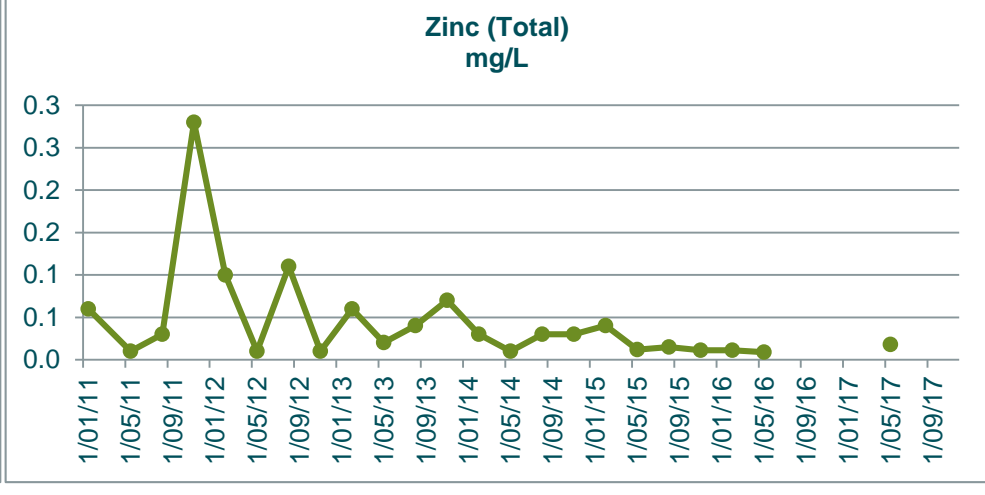
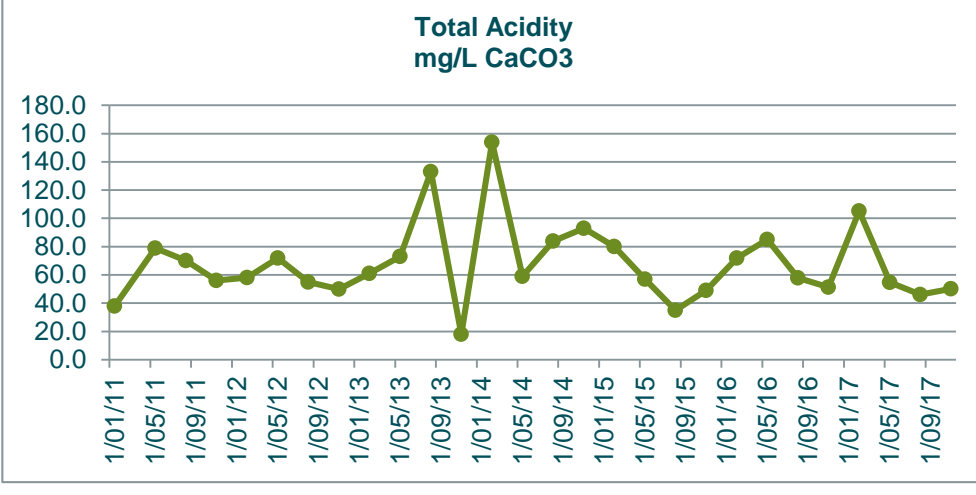
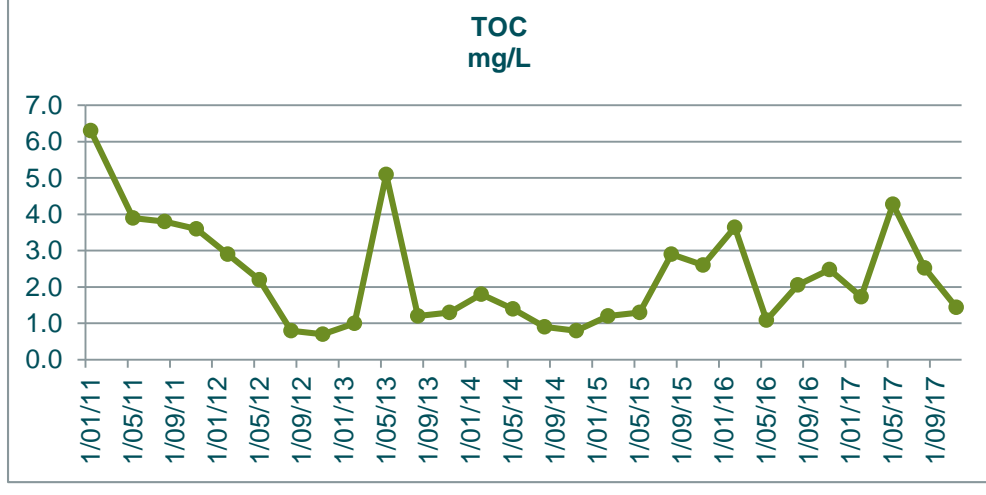
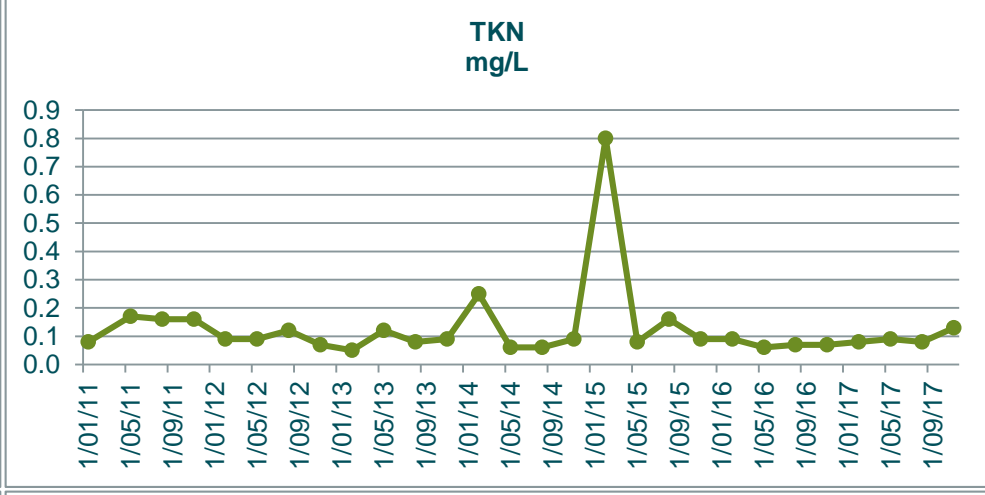
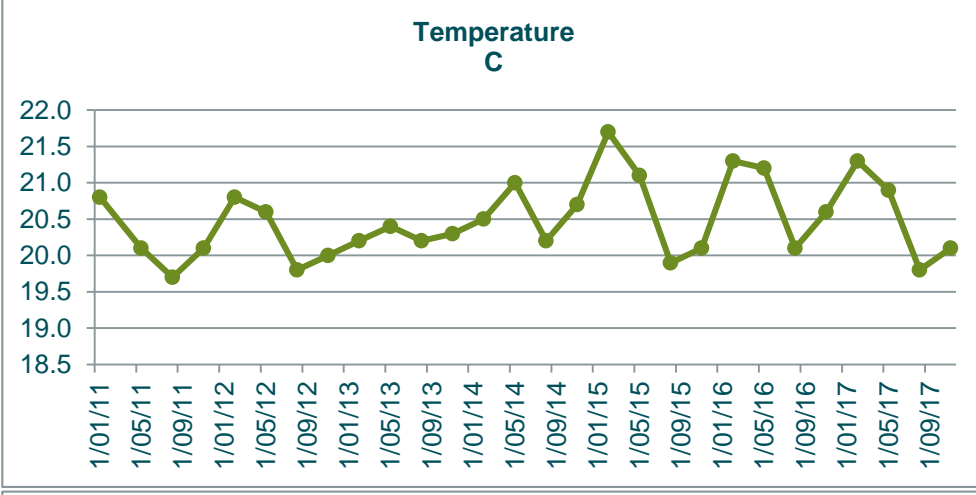
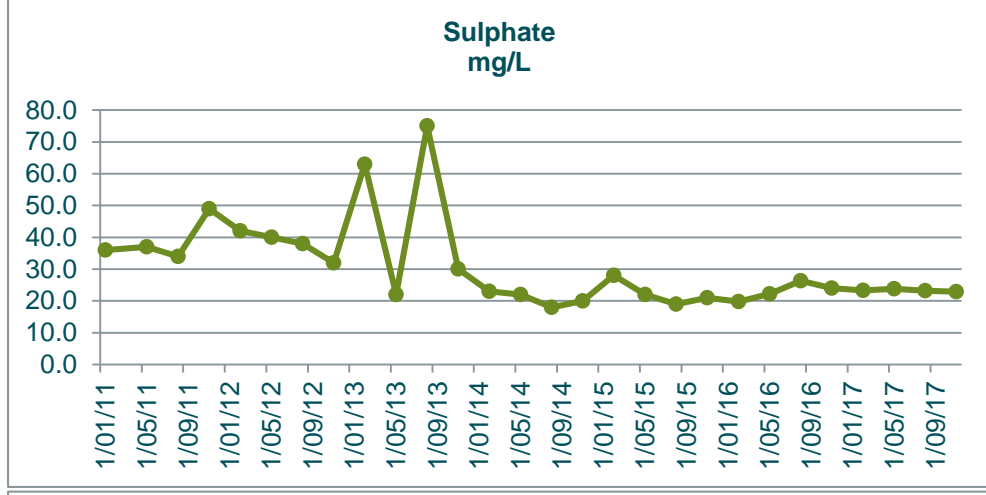
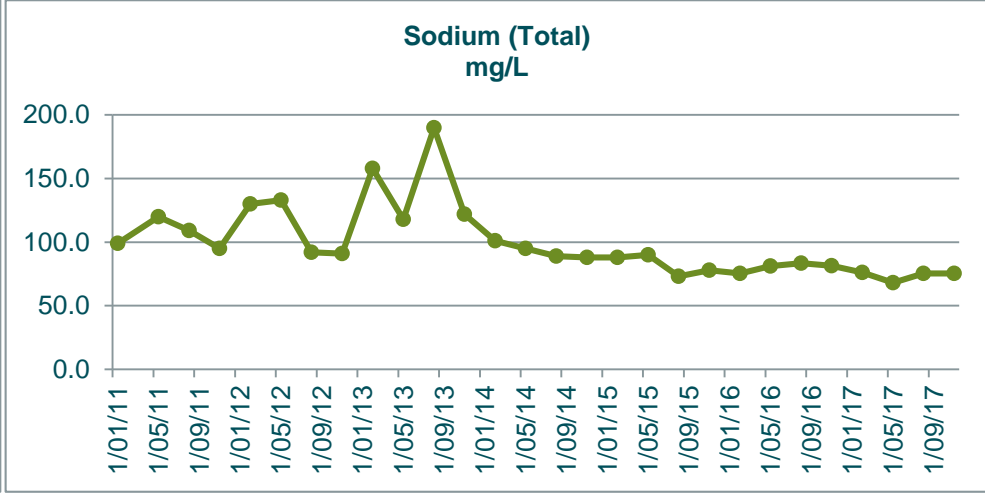
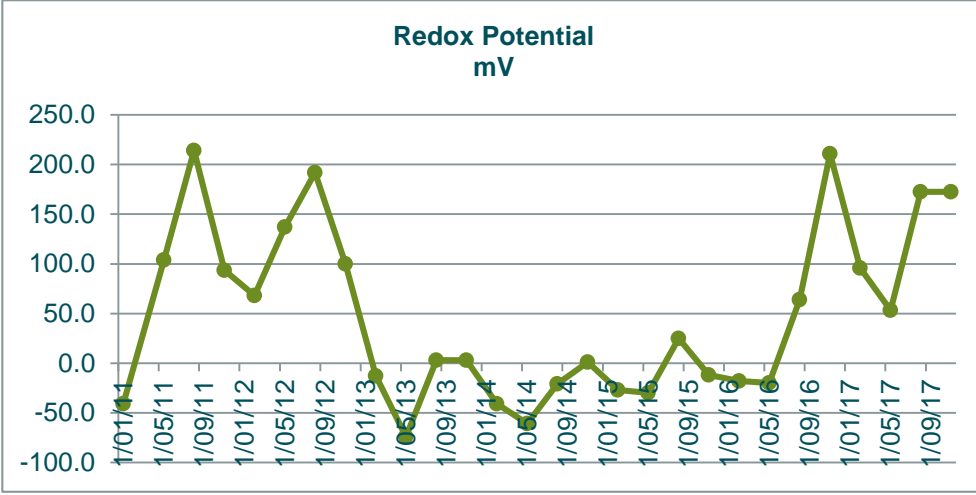
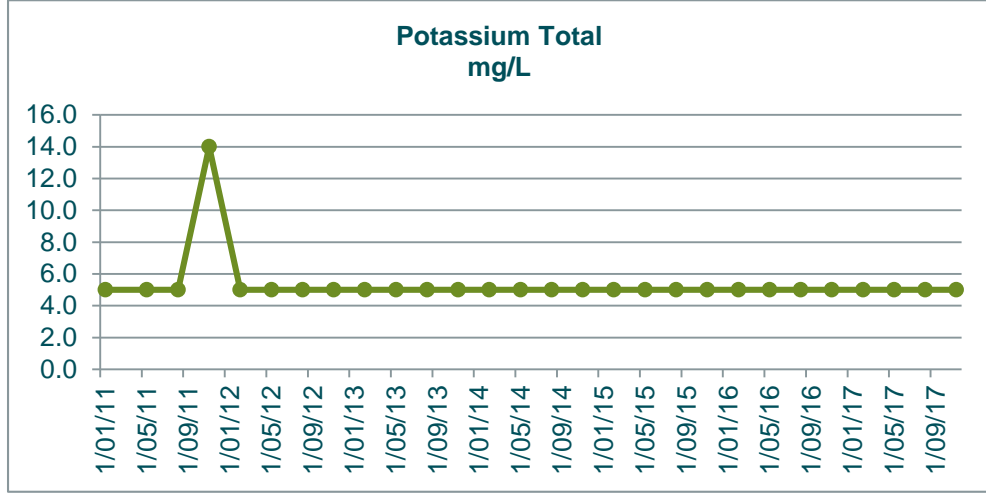
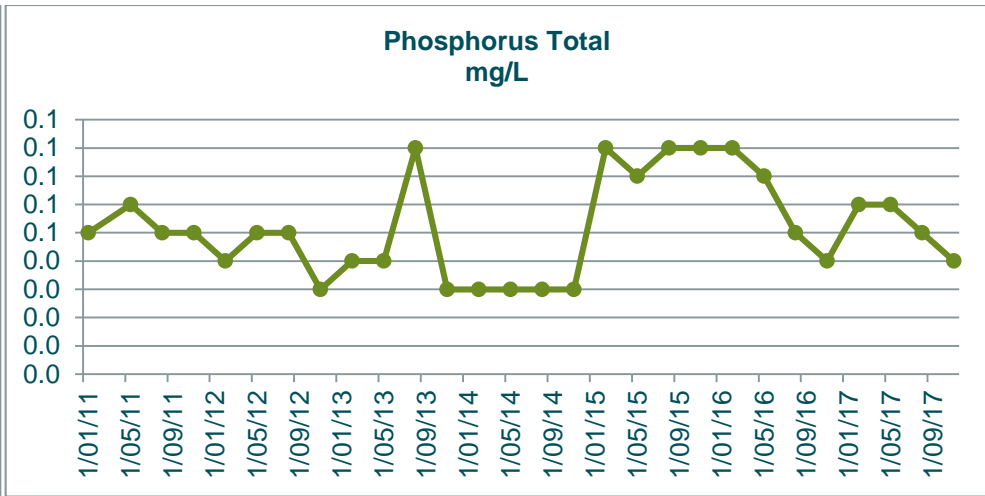
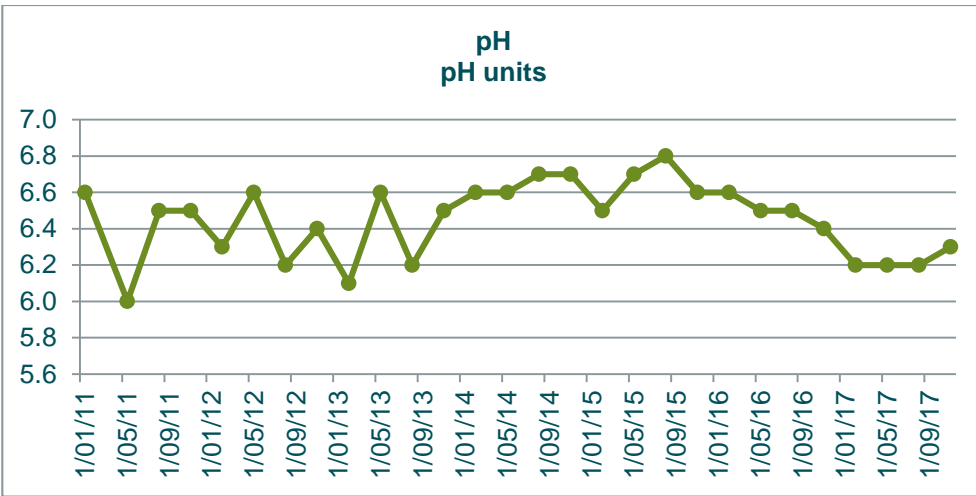
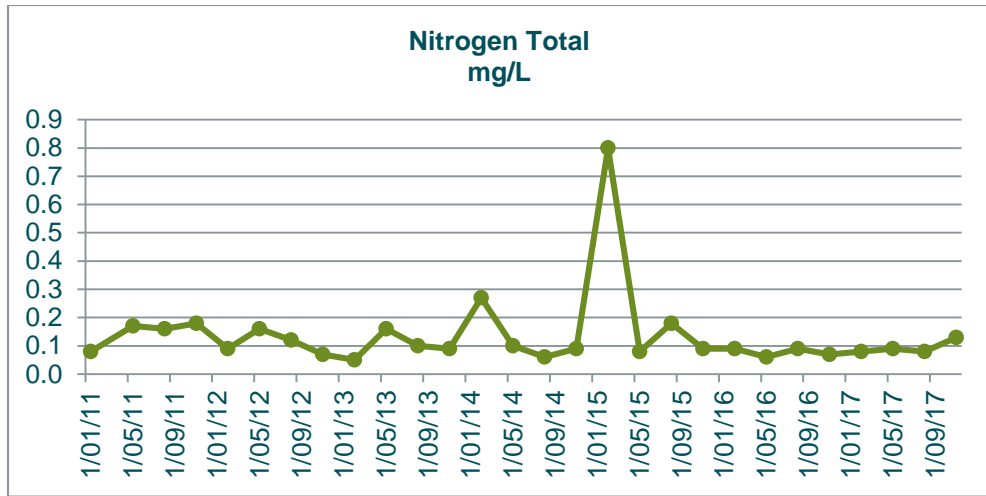




GW23	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L
31/01/11	147.0	0.1	0.1	0.0	90.0	9.0	0.0	19.0	120.0	0.0	0.0	0.0	732.0	0.0	3.2	0.2	1.7	0.0	11.0	1.6	0.0	0.1	0.1	0.1	0.1	6.6		0.1	5.0	-41.0	99.0	36.0	20.8	0.1	6.3	38.0	0.1
10/05/11	130.0	0.1	0.1	0.0	79.0	11.0	0.0	20.0	140.0	0.0	0.0	0.0	872.0	0.0	1.8	0.1	3.0	0.0	14.0	1.6	0.0	0.1	0.1	0.1	0.2	6.0		0.1	5.0	104.0	120.0	37.0	20.1	0.2	3.9	79.0	0.0
9/08/11	121.0	0.2	0.1	0.0	74.0	4.5	0.0	19.0	160.0	0.0	0.0	0.0	822.0	0.0	1.3	0.1	2.6	0.0	13.0	1.0	0.0	0.1	0.1	0.1	0.2	6.5		0.1	5.0	214.0	109.0	34.0	19.7	0.2	3.8	70.0	0.0
8/11/11	105.0	0.6	0.0	0.0	64.0	3.6	0.0	26.0	210.0	0.0	0.0	0.0	803.0	0.0	1.4	0.1	15.0	0.0	19.0	1.9	0.0	0.0	0.0	0.2	6.5		0.1	14.0	93.6	95.0	49.0	20.1	0.2	3.6	56.0	0.3	
6/02/12	106.0	0.1	0.0	0.0	65.0	5.4	0.0	22.0	154.0	0.0	0.0	0.0	777.0	0.0	1.0	0.1	3.4	0.0	14.0	1.6	0.0	0.0	0.0	0.1	0.1	6.3		0.0	5.0	68.0	130.0	42.0	20.8	0.1	2.9	58.0	0.1
8/05/12	100.0	0.0	0.1	0.0	61.0	2.7	0.0	23.0	185.0	0.0	0.0	0.0	911.0	0.0	2.7	0.1	3.4	0.0	16.0	1.6	0.0	0.1	0.0	0.1	0.2	6.6		0.1	5.0	137.0	133.0	40.0	20.6	0.1	2.2	72.0	0.0
6/08/12	88.0	0.1	0.0	0.0	54.0	1.2	0.0	21.0	3.0	0.0	0.0	0.0	841.0	0.0	1.0	0.1	2.9	0.0	14.0	0.9	0.0	0.0	0.0	0.0	0.1	6.2		0.1	5.0	192.0	92.0	38.0	19.8	0.1	0.8	55.0	0.1
13/11/12	88.0	0.1	0.0	0.0	54.0	1.2	0.0	19.0	140.0	0.0	0.0	0.0	757.0	0.0	1.4	0.1	3.8	0.0	13.0	0.9	0.0	0.0	0.0	0.0	0.1	6.4		0.0	5.0	100.0	91.0	32.0	20.0	0.1	0.7	50.0	0.0
13/02/13	77.0	0.2	0.0	0.0	47.0	2.0	0.0	30.0	320.0	0.0	0.0	0.0	1233.0	0.0	0.6	0.1	7.7	0.0	20.0	2.4	0.0	0.0	0.0	0.0	0.1	6.1		0.0	5.0	-13.0	158.0	63.0	20.2	0.1	1.0	61.0	0.1
14/05/13	186.0	0.2	0.1	0.0	113.0	12.0	0.0	24.0	150.0	0.0	0.0	0.0	824.0	0.0	1.7	0.2	4.2	0.0	14.0	1.5	0.0	0.0	0.0	0.0	0.2	6.6		0.0	5.0	-74.0	118.0	22.0	20.4	0.1	5.1	73.0	0.0
6/08/13	94.0	0.1	0.0	0.0	57.0	1.8	0.0	37.0	320.0	0.0	0.0	0.0	1344.0	0.0	0.7	0.2	7.9	0.0	24.0	2.4	0.0	0.0	0.0	0.0	0.1	6.2		0.1	5.0	3.0	190.0	75.0	20.2	0.1	1.2	133.0	0.0
12/11/13	150.0	0.1	0.0	0.0	92.0	1.0	0.0	26.0	155.0	0.0	0.0	0.0	847.0	0.0	2.0	0.2	1.1	0.0	16.0	1.3	0.0	0.0	0.0	0.0	0.1	6.5		0.0	5.0	3.0	122.0	30.0	20.3	0.1	1.3	18.0	0.1
11/02/14	170.0	0.1	0.0	0.0	104.0	3.9	0.0	24.0	127.0	0.0	0.0	0.0	718.0	0.0	1.0	0.2	2.8	0.0	14.0	1.5	0.0	0.0	0.0	0.0	0.3	6.6		0.0	5.0	-41.0	101.0	23.0	20.5	0.3	1.8	154.0	0.0
13/05/14	144.0	0.2	0.0	0.0	88.0	3.9	0.0	27.0	118.0	0.0	0.0	0.0	692.0	0.0	2.0	0.2	2.2	0.0	14.0	1.2	0.0	0.0	0.0	0.0	0.1	6.6		0.0	5.0	-61.0	95.0	22.0	21.0	0.1	1.4	59.0	0.0
12/08/14	142.0	0.1	0.0	0.0	87.0	2.1	0.0	27.0	111.0	0.0	0.0	0.0	668.0	0.0	3.4	0.2	1.3	0.0	14.0	0.6	0.0	0.0	0.0	0.0	0.1	6.7		0.0	5.0	-21.0	89.0	18.0	20.2	0.1	0.9	84.0	0.0
10/11/14	146.0	0.1	0.0	0.0	89.0	1.0	0.0	26.0	106.0	0.0	0.0	0.0	647.0	0.0	1.1	0.2	1.2	0.0	14.0	0.5	0.0	0.0	0.0	0.0	0.1	6.7		0.0	5.0	1.0	88.0	20.0	20.7	0.1	0.8	93.0	0.0
9/02/15	122.0	0.2	0.0	0.0	74.0	2.1	0.0	23.0	140.0	0.0	0.0	0.0	753.0	0.0	1.4	0.2	4.6	0.0	13.0	1.9	0.0	0.0	0.0	0.0	0.8	6.5		0.1	5.0	-27.0	88.0	28.0	21.7	0.8	1.2	80.0	0.0
11/05/15	136.0	0.1	0.0	0.0	83.0	1.5	0.0	26.0	121.0	0.0	0.0	0.0	681.0	0.0	2.2	0.2	3.2	0.0	14.0	1.6	0.0	0.0	0.0	0.0	0.1	6.7		0.1	5.0	-30.0	90.0	22.0	21.1	0.1	1.3	57.0	0.0
11/08/15	103.0	0.1	0.0	0.0	103.0	17.0	0.0	23.0	98.0	0.0	0.0	0.0	569.0	0.0	5.6	0.1	1.9	0.0	12.0	0.2	0.0	0.0	0.0	0.0	0.2	6.8		0.1	5.0	25.0	73.0	19.0	19.9	0.2	2.9	35.0	0.0
10/11/15	123.0	0.1	0.0	0.0	123.0	3.3	0.0	24.0	110.0	0.0	0.0	0.0	542.0	0.0	1.3	0.2	2.5	0.0	13.0	0.9	0.0	0.0	0.0	0.0	0.1	6.6		0.1	5.0	-12.0	78.0	21.0	20.1	0.1	2.6	49.0	0.0
8/02/16	120.0	0.0	0.0	0.0	120.0	7.2	0.0	22.0	100.0	0.0	0.0	0.0	616.0	0.0	1.8	0.1	3.2	0.0	12.0	1.3	0.0	0.0	0.0	0.0	0.1	6.6		0.1	5.0	-18.0	75.5	19.8	21.3	0.1	3.6	72.0	0.0
9/05/16	122.0	0.0	0.0	0.0	122.0	3.6	0.0	23.9	115.0	0.0	0.0	0.0	663.0	0.0	1.5	0.1	3.0	0.0	12.9	1.4	0.0	0.0	0.0	0.0	0.1	6.5		0.1	5.0	-20.0	81.3	22.2	21.2	0.1	1.1	85.0	0.0
9/08/16	115.0		0.0		115.0	1.0		24.2	115.0				655.3		4.4	0.1			13.1			0.0	0.0	0.0	0.1	6.5		0.1	5.0	64.0	83.4	26.3	20.1	0.1	2.1	57.9	
7/11/16	120.0		0.0		120.0	1.0		25.4	110.0				632.1		1.2	0.1			13.4			0.0	0.0	0.0	0.1	6.4		0.0	5.0	211.0	81.5	24.0	20.6	0.1	2.5	51.2	
7/02/17	114.0		0.0		114.0	1.6		23.5	110.0				640.6		1.2	0.2			12.7			0.0	0.0	0.0	0.1	6.2		0.1	5.0	95.8	76.2	23.3	21.3	0.1	1.7	105.1	
8/05/17	113.0	0.1	0.0	0.0	113.0	10.2	0.0	24.9	98.0	0.0	0.0	0.0	579.2	0.0	1.0	0.2	3.2	0.0	12.1	1.3	0.0	0.0	0.0	0.0	0.1	6.2		0.1	5.0	53.2	68.0	23.8	20.9	0.1	4.3	54.6	0.0
8/08/17	102.6		0.0		103.0	1.8		23.0	95.0				619.4		4.8	0.1			12.2			0.0	0.0	0.0	0.1	6.2		0.1	5.0	172.7	75.3	23.2	19.8	0.1	2.5	46.0	
7/11/17	114.0		0.0		114.0	1.5		25.2	115.0				645.7		1.4	0.1			13.5			0.0	0.0	0.0	0.1	6.3		0.0	5.0	172.6	75.5	22.9	20.1	0.1	1.4	50.2	
2017 Min	102.6	0.1	0.0	0.0	103.0	1.5	0.0	23.0	95.0	0.0	0.0	0.0	579.2	0.0	1.0	0.1	3.2	0.0	12.1	1.3	0.0	0.0	0.0	0.0	0.1	6.2		0.0	5.0	53.2	68.0	22.9	19.8	0.1	1.4	46.0	0.0
2017 Max	114.0	0.1	0.0	0.0	114.0	10.2	0.0	25.2	115.0	0.0	0.0	0.0	645.7	0.0	4.8	0.2	3.2	0.0	13.5	1.3	0.0	0.0	0.0	0.0	0.1	6.3		0.1	5.0	172.7	76.2	23.8	21.3	0.1	4.3	105.1	0.0
2017 Mean	110.9	0.1	0.0	0.0	111.0	3.8	0.0	24.1	104.5	0.0	0.0	0.0	621.2	0.0	2.1	0.1	3.2	0.0	12.6	1.3	0.0	0.0	0.0	0.0	0.1	6.2		0.1	5.0	123.6	73.7	23.3	20.5	0.1	2.5	64.0	0.0

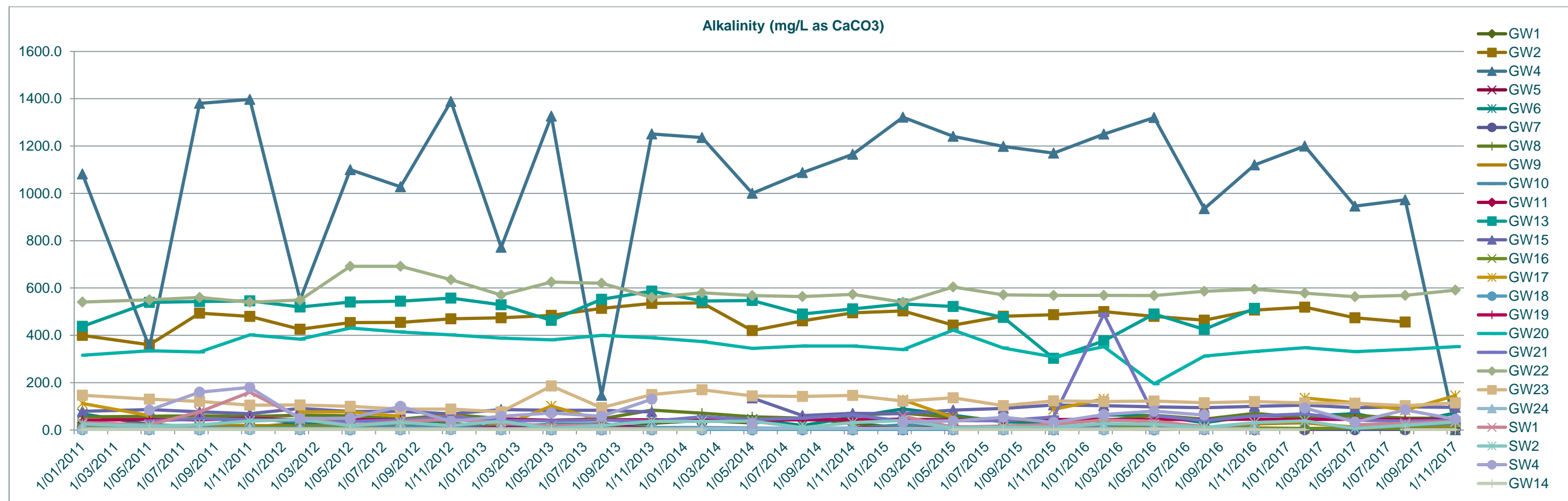




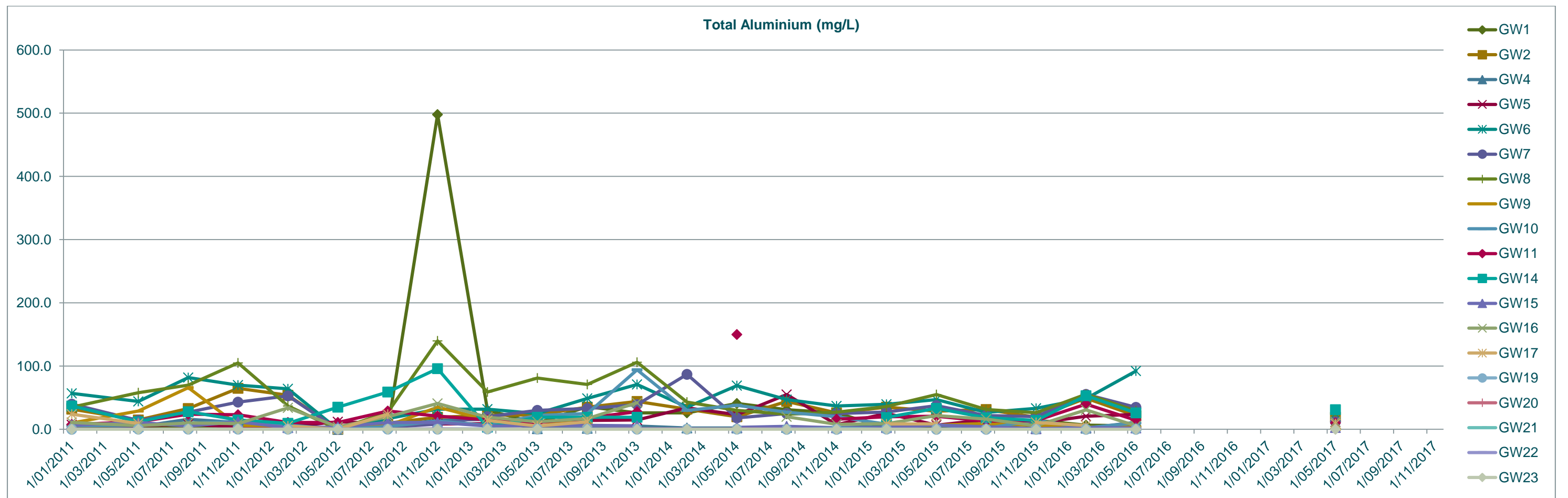


Appendix C – Monitoring Graphs of each Parameter

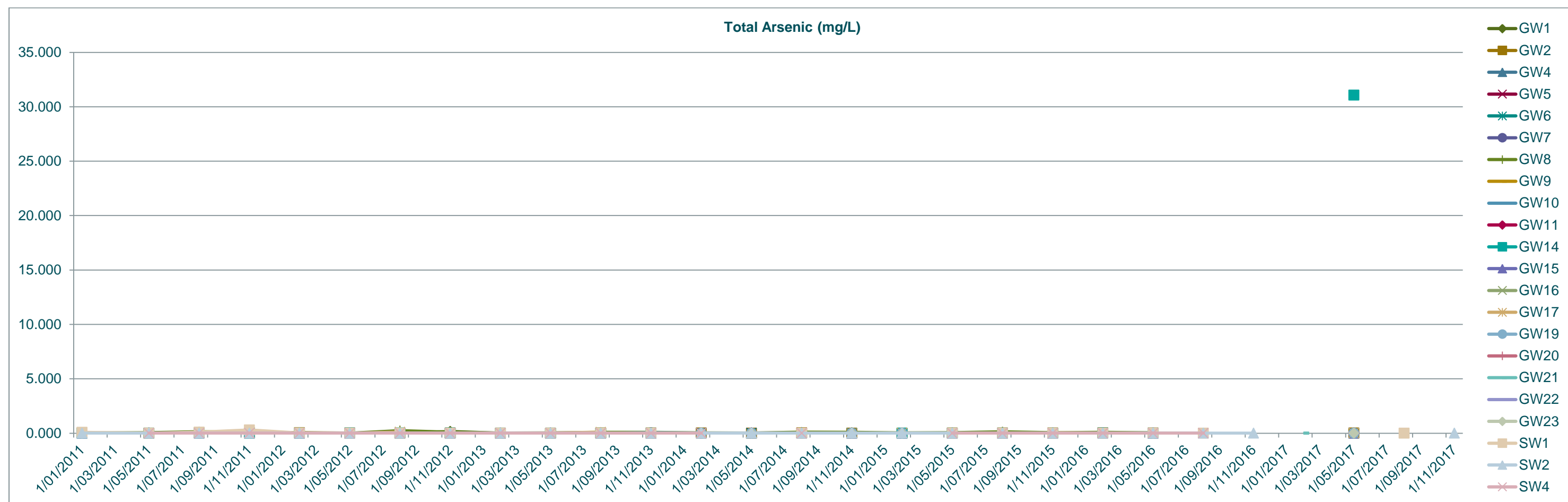
Alkalinity	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW13	GW14	GW15	GW16	GW17	GW18	GW19	GW20	GW21	GW22	GW23	GW24	SW1	SW2	SW4	
31/01/2011	31.0	400.0	1082.0	6.0	68.0	9.0	55.0	16.0	17.0	12.0	438.0	2.0	79.0	10.0	112.0	0.6	41.0	316.0		541.0	147.0	6.4	31.0	25.0		
10/05/2011	16.0	360.0	350.0	2.0	23.0	2.0	58.0	11.0	17.0	6.0	539.0	1.0	86.0	7.0	61.0	0.8	45.0	335.0	38.0	550.0	130.0	5.7	22.0	17.0	84.0	
9/08/2011	12.0	494.0	1380.0	4.0	13.0	1.0	60.0	18.0	11.0	5.0	543.0	1.0	77.0	8.0		1.0	43.0	330.0	47.0	560.0	121.0	6.2	77.0	22.0	160.0	
8/11/2011	13.0	480.0	1397.0	5.0	52.0	3.0	57.0	19.0	9.0	6.0	546.0	2.0	69.0	10.0		1.4	49.0	402.0	44.0	540.0	105.0	6.4	160.0	38.0	180.0	
6/02/2012	27.0	426.0	550.0	2.0	29.0	5.0	62.0	17.0	17.0	9.0	520.0	1.0	91.0	16.0	76.0	0.7	43.0	384.0	37.0	549.0	106.0	6.3	51.0	45.0	48.0	
8/05/2012	18.0	454.0	1100.0	3.0	49.0	3.0	60.0	20.0	16.0	5.0	541.0	1.0	78.0	10.0	77.0	0.1	43.0	431.0	36.0	692.0	100.0	6.3	20.0	18.0	50.0	
6/08/2012	12.0	455.0	1028.0	3.0	18.0	4.0	46.0	21.0	15.0	6.0	544.0	2.0	79.0	7.0	58.0	0.5	43.0	414.0	42.0	692.0	88.0	6.0	36.0	32.0	100.0	
13/11/2012	29.0	470.0	1388.0	4.0	45.0	2.0	65.0	69.0	10.0	4.0	557.0	1.0	68.0	5.0		2.3	42.0	402.0	55.0	635.0	88.0	6.2	44.0	19.0	36.0	
13/02/2013	7.0	474.0	772.0	2.0	36.0	22.0	48.0	13.0	14.0	12.0	529.0	1.0	86.0	4.0	16.0	0.7	46.0	388.0	40.0	570.0	77.0	6.3	30.0	37.0	58.0	
14/05/2013	9.0	484.0	1326.0	2.0	10.0	1.0	41.0	19.0	25.0	6.0	463.0	1.0	83.0	8.0	101.0	0.7	41.0	381.0	39.0	625.0	186.0	6.1	17.0	7.0	72.0	
6/08/2013	11.0	514.0	146.0	2.0	18.0	1.0	47.0	16.0	26.0	24.0	552.0	1.0	83.0	8.0	41.0	0.7	44.0	400.0	42.0	620.0	94.0	6.2	22.0	19.0	58.0	
12/11/2013	28.0	535.0	1251.0	4.0	41.0	1.0	84.0		10.0	5.0	587.0	1.0	76.0	7.0		0.9	43.0	390.0	37.0	560.0	150.0	6.3		36.0	130.0	
11/02/2014	40.0	537.0	1236.0	6.0	48.0	2.0	71.0		10.0		545.0					0.0	44.0	374.0	56.0	580.0	170.0	6.5		36.0		
13/05/2014	30.0	420.0	1000.0	5.0	45.0	2.0	56.0		8.0	7.0	547.0			135.0		0.4	42.0	345.0	44.0	568.0	144.0	6.3	26.0	37.0	26.0	
12/08/2014	50.0	461.0	1088.0	4.0	19.0	1.0	50.0		7.0		490.0			61.0		0.6	43.0	355.0	50.0	564.0	142.0	6.5		10.0		
10/11/2014	28.0	495.0	1165.0	2.0	55.0	1.0	63.0		8.0	10.0	512.0			70.0	5.0		0.5	44.0	355.0	64.0	573.0	146.0	6.5		31.0	
9/02/2015	9.0	503.0	1322.0	1.0	89.0	2.0	71.0	12.0	22.0	8.0	533.0	1.0	69.0	9.0	127.0	0.5	46.0	340.0	38.0	540.0	122.0	6.6	59.0	40.0	35.0	
11/05/2015	12.0	443.0	1241.0	2.0	62.0	1.0	53.0	13.0	12.0	12.0	522.0	1.0	84.0	7.0	53.0	0.6	43.0	422.0	40.0	604.0	136.0	6.5	12.0	9.0	38.0	
11/08/2015	13.0	481.0	1198.0	2.0	34.0	1.0	43.0	9.0	1.0	13.0	476.0	1.0	91.0	7.0		0.7	44.0	346.0	39.0	571.0	103.0	6.2	17.0	12.0	54.0	
10/11/2015	13.0	487.0	1170.0	1.0	30.0	1.0	37.0	4.0	8.0	6.0	303.0	1.0	106.0	7.0	87.0	0.4	44.0	309.0	55.0	569.0	123.0	6.0	24.0	12.0	32.0	
8/02/2016	20.0	500.0	1250.0	4.0	64.0	2.0	39.0	27.0	12.0	7.0	377.0	4.0	103.0	6.0	131.0	0.6	44.0	352.0	490.0	569.0	120.0	6.3	42.0	27.0	65.0	
9/05/2016	21.0	480.0	1320.0	3.0	61.0	1.0	62.0	15.0	22.0	6.0	490.0	1.0	98.0	24.0		0.5	44.0	195.0	61.0	568.0	122.0	6.3	37.0	24.0	80.0	
9/08/2016	12.0	464.0	935.0	2.4	30.7	1.4	45.5	10.6	6.4	5.1	425.3	1.0	94.4	7.0	91.8		44.5	312.0	40.0	586.0	115.0	6.0	14.9	11.1	63.3	
7/11/2016	20.2	507.0	1120.0	1.6	61.6	1.0	70.3	25.4		4.6	513.6	1.0	99.7	8.6			45.7	332.0	59.4	595.0	120.0	6.2		31.4		
7/02/2017	34.1	519.0	1200.0	2.9	58.6	1.0	52.5	30.5	8.0	5.5			105.0	6.5	135.0		45.3	348.0	68.2	578.0	114.0			38.3	93.4	
8/05/2017	8.9	474.0	946.0	1.2	68.7	1.0	60.8	11.6		11.1		1.0	94.2	8.0	115.0		44.7	331.0	41.5	563.0	113.0		22.1	6.7	33.2	
8/08/2017	16.4	456.4	972.7	3.0	30.0	1.0	50.3	9.1	18.6	4.9		1.0	98.0	7.0	84.3		44.8	340.4	37.8	569.1	102.6		28.3	19.9	85.1	
7/11/2017	35.6		1.0	4.9	71.7	2.9	49.5	18.0	28.4	6.2		2.0	95.7	5.6	145.2		45.4	352.3	42.4	591.1	114.0		37.3	34.3	45.8	



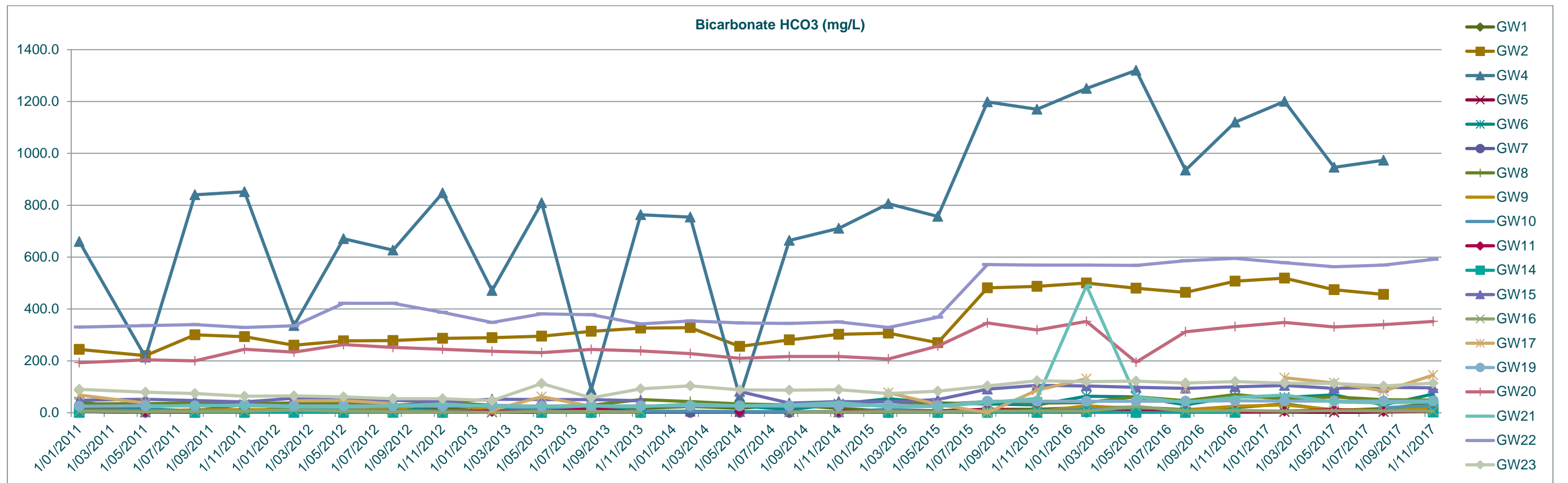
AI	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	1.1	32.0	7.9	7.1	57.0	40.0	35.0	10.0	6.1	7.7	37.0	6.7	11.0	24.0	0.1	0.5		0.5	0.1
10/05/2011	1.1	15.0	4.3	5.4	44.0	14.0	58.0	29.0	6.5	12.0	12.0	11.0	5.8	9.3	0.1	0.2	0.1	0.2	0.1
9/08/2011	3.9	33.0	16.0	8.4	82.0	27.0	70.0	66.0	9.2	24.0	28.0	5.4	10.0		0.2	0.4	0.1	0.2	0.2
8/11/2011	6.6	65.0	11.0	3.1	70.0	43.0	105.0	6.4	13.0	23.0	15.0	12.0	9.0		0.3	0.3	0.3	0.4	0.6
6/02/2012	3.0	54.0	9.2	4.2	64.0	53.0	37.0	5.3	6.9	11.0	9.5	2.6	34.0	5.4	0.2	0.4	0.2	0.2	0.1
8/05/2012	2.1	0.0	0.0	12.0	0.0	0.1	0.0	0.1	0.1	11.0	35.0	3.6	4.1	0.2	0.6	0.1	0.0	0.1	0.0
6/08/2012	1.7	9.7	5.4	9.5	17.0	3.5	27.0	5.7	4.5	29.0	59.0	11.0	20.0	24.0	0.2	0.3	0.1	0.4	0.1
13/11/2012	498.0	19.0	14.0	8.6	32.0	8.2	140.0	35.0	13.0	21.0	96.0	11.0	41.0		0.3	0.6	0.1	0.7	0.1
13/02/2013	30.0	22.0	16.0	9.2	32.0	20.0	59.0	15.0	6.4	15.0	3.5	5.3	19.0	14.0	0.5	0.2	0.4	0.3	0.2
14/05/2013	9.7	23.0	1.1	12.0	25.0	30.0	81.0	12.0	22.0	11.0	19.0	5.8	12.0	5.3	0.1	0.4	0.1	0.3	0.2
6/08/2013	36.0	35.0	1.5	14.0	49.0	33.0	71.0	9.3	25.0	18.0	19.0	6.3	17.0	12.0	0.1	0.2	0.2	0.5	0.1
12/11/2013	26.0	44.0	5.3	15.0	71.0	39.0	106.0		94.0	28.0	19.0	5.5	42.0		0.3	0.7	0.3	0.6	0.1
11/02/2014	26.0	32.0	2.2	34.0	35.0	87.0	43.0		30.0						0.2	0.4	0.1	0.4	0.1
13/05/2014	41.0	20.0	2.1	23.0	69.0	18.0	30.0		38.0	150.0		3.1			0.2	0.6	0.2	0.3	0.2
12/08/2014	31.0	44.0	3.0	55.0	47.0	25.0	24.0		27.0			4.9	20.0		0.1	0.6	0.0	0.8	0.1
10/11/2014	26.0	26.0	2.9	7.4	37.0	25.0	27.0		20.0	16.0		2.3	8.0		0.1	0.3	1.5	0.5	0.1
9/02/2015	2.2	35.1	4.4	25.3	39.7	27.4	36.1	5.6	8.3	19.8	18.9	2.6	8.9	8.5	0.1	0.2	0.2	0.2	0.2
11/05/2015	2.4	28.8	6.7	6.6	47.0	37.4	55.0	6.6	6.8	20.7	33.3	6.9	21.8	8.9	0.1	0.2	0.3	0.4	0.1
11/08/2015	0.5	31.4	5.4	15.2	26.9	21.9	31.3	9.2	1.6	13.1	18.3	3.9	16.2		0.0	0.4	0.1	0.4	0.1
10/11/2015	14.3	19.1	1.0	9.5	33.2	20.1	26.2	6.3	14.3	13.9	14.1	1.1	5.8	10.9	0.1	0.1	0.1	0.1	0.1
8/02/2016	6.6	49.1	1.9	20.7	48.7	55.3	55.7	3.7	2.3	40.0	53.2	2.9	30.8	6.2	0.1	0.2	0.1	0.3	0.0
9/05/2016	5.7	21.5	11.2	23.5	92.2	34.9	29.2	3.7	10.0	14.3	25.9	2.1	5.6		0.0	0.2	0.1	0.5	0.0
9/08/2016																			
7/11/2016																			
7/02/2017																			
8/05/2017	0.9	19.5	8.3	11.6	24.7	12.0	28.1	0.3		10.1	31.1	2.8	11.9	8.9	0.0	0.2	0.0	0.5	0.1
8/08/2017																			
7/11/2017																			



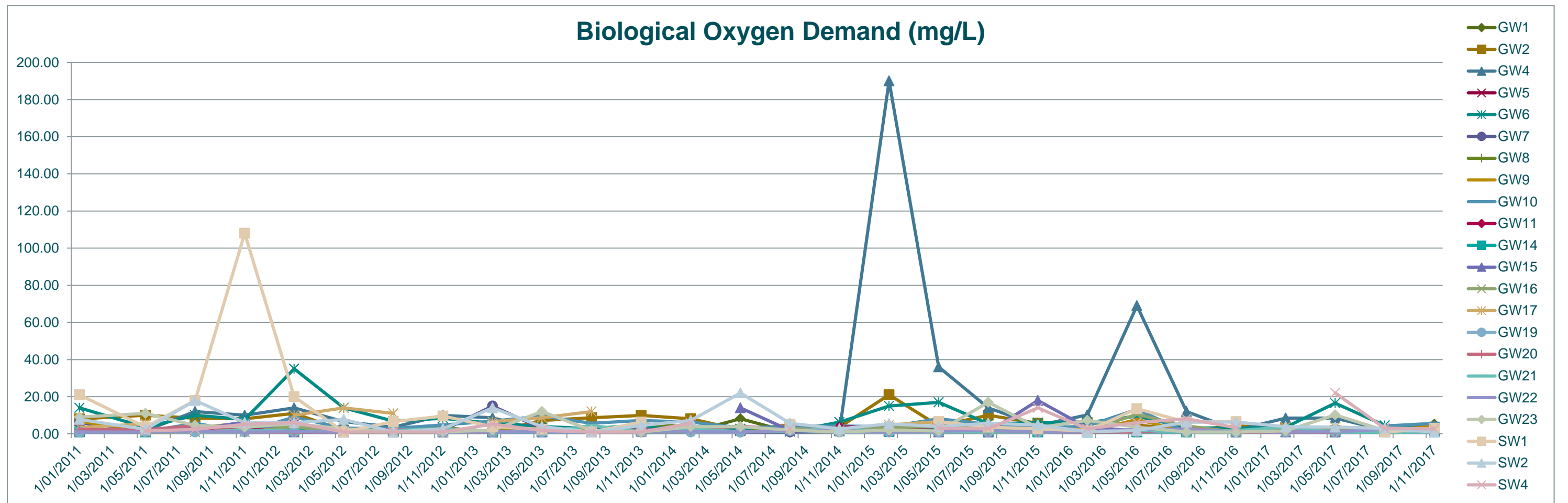
As	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4	
31/01/2011	0.005	0.016	0.005	0.005	0.010	0.010	0.022	0.005	0.005	0.005	0.006	0.006	0.005	0.030	0.005	0.005	0.005	0.005	0.005	0.086	0.006		
10/05/2011	0.005	0.007	0.005	0.005	0.012	0.005	0.042	0.005	0.005	0.005	0.005	0.011	0.005	0.014	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
9/08/2011	0.005	0.031	0.005	0.005	0.058	0.010	0.146	0.049	0.006	0.005	0.012	0.012	0.005		0.005	0.005	0.005	0.005	0.005	0.100	0.005	0.005	
8/11/2011	0.005	0.046	0.005	0.005	0.015	0.008	0.074	0.005	0.007	0.050	0.005	0.011	0.005		0.005	0.005	0.005	0.005	0.005	0.304	0.005	0.007	
6/02/2012	0.005	0.050	0.005	0.005	0.005	0.005	0.029	0.005	0.005	0.005	0.005	0.007	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.012	0.005	0.005	
8/05/2012	0.005	0.011	0.005	0.009	0.005	0.005	0.006	0.005	0.005	0.005	0.014	0.009	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.005	
6/08/2012	0.010	0.005	0.005	0.007	0.005	0.005	0.240	0.005	0.005	0.005	0.018	0.011	0.005	0.106	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
13/11/2012	0.165	0.011	0.005	0.005	0.005	0.005	0.092	0.023	0.005	0.005	0.021	0.007	0.006		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
13/02/2013	0.007	0.005	0.005	0.005	0.005	0.005	0.023	0.005	0.005	0.005	0.005	0.005	0.005	0.017	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
14/05/2013	0.005	0.010	0.005	0.011	0.005	0.005	0.032	0.005	0.011	0.005	0.007	0.021	0.005	0.013	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
6/08/2013	0.008	0.013	0.005	0.005	0.005	0.005	0.073	0.005	0.010	0.005	0.006	0.005	0.005	0.090	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
12/11/2013	0.009	0.018	0.005	0.012	0.005	0.032	0.088		0.042	0.008	0.008	0.009	0.009		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
11/02/2014	0.009	0.017	0.005	0.022	0.005	0.008	0.032		0.015						0.005	0.005	0.005	0.005	0.005		0.005	0.006	
13/05/2014	0.015	0.005	0.005	0.020	0.005	0.005	0.021		0.008	0.016		0.022			0.005	0.005	0.005	0.005	0.005		0.005		
12/08/2014	0.005	0.029	0.005	0.037	0.005	0.005	0.101		0.006			0.012			0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
10/11/2014	0.005	0.005	0.005	0.005	0.005	0.005	0.085		0.005	0.005		0.005	0.005		0.005	0.005	0.005	0.005	0.005		0.005		
9/02/2015	0.005	0.005	0.005	0.005	0.005	0.005	0.036	0.005	0.005	0.005	0.005	0.005	0.005	0.022	0.005	0.005	0.003	0.005	0.005		0.005		
11/05/2015	0.001	0.012	0.004	0.004	0.017	0.010	0.049	0.005	0.008	0.006	0.010	0.007	0.003	0.025	0.001	0.006	0.001	0.005	0.001	0.005	0.005	0.005	
11/08/2015	0.001	0.019	0.004	0.015	0.010	0.010	0.125	0.007	0.010	0.007	0.006	0.008	0.003		0.001	0.008	0.001	0.004	0.001	0.001	0.005	0.003	
10/11/2015	0.005	0.012	0.001	0.010	0.013	0.008	0.044	0.003	0.016	0.006	0.003	0.010	0.002	0.052	0.001	0.004	0.001	0.001	0.001	0.009	0.002	0.002	
8/02/2016	0.002	0.037	0.002	0.019	0.014	0.015	0.077	0.003	0.002	0.007	0.012	0.012	0.006	0.016	0.001	0.005	0.001	0.003	0.001	0.003	0.001	0.003	
9/05/2016	0.002	0.016	0.005	0.022	0.028	0.012	0.037	0.006	0.009	0.003	0.009	0.006	0.001		0.001	0.003		0.003	0.001	0.022	0.002	0.004	
9/08/2016																				0.006	0.002	0.003	
7/11/2016																					0.002		
7/02/2017																	0.001						
8/05/2017	0.001	0.014	0.004	0.011	0.011	0.005	0.052	0.001		0.003	31.064	0.006	0.003	0.015	0.001	0.006		0.007	0.001				
8/08/2017																				0.002			
7/11/2017																					0.001		



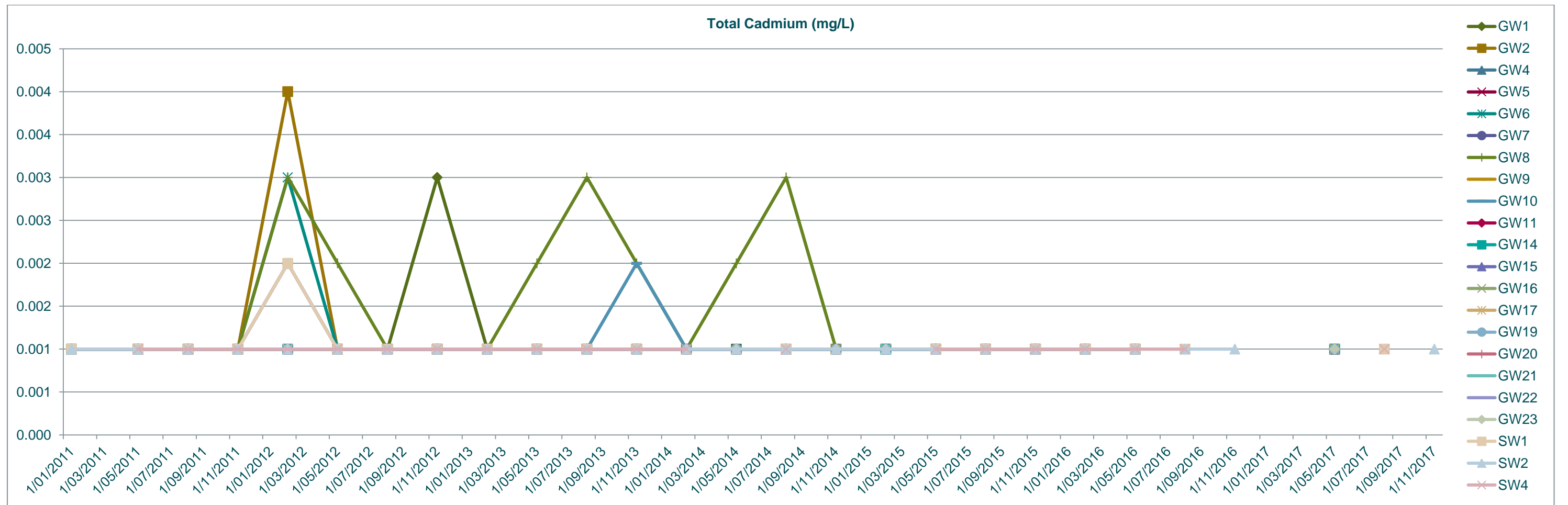
Bicarbonate	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	19.0	244.0	660.0	4.0	41.0	5.0	34.0	10.0	10.0	7.0	1.0	48.0	6.0	68.0	25.0	193.0		330.0	90.0
10/05/2011	10.0	220.0	214.0	1.0	14.0	1.0	35.0	7.0	10.0	4.0		52.0	4.0	37.0	27.0	204.0	23.0	336.0	79.0
9/08/2011	7.0	300.0	840.0	2.0	8.0	1.0	37.0	11.0	7.0	3.0	1.0	47.0	5.0		26.0	200.0	29.0	340.0	74.0
8/11/2011	8.0	293.0	852.0	3.0	32.0	2.0	35.0	12.0	5.0	4.0	1.0	42.0	6.0		30.0	245.0	27.0	329.0	64.0
6/02/2012	16.0	260.0	336.0	1.0	18.0	3.0	38.0	10.0	10.0	5.0	1.0	56.0	10.0	46.0	26.0	234.0	23.0	335.0	65.0
8/05/2012	11.0	277.0	671.0	2.0	30.0	2.0	37.0	12.0	10.0	3.0	1.0	48.0	6.0	47.0	26.0	263.0	22.0	422.0	61.0
6/08/2012	7.0	278.0	627.0	2.0	11.0	2.0	28.0	13.0	9.0	4.0	1.0	48.0	4.0	35.0	26.0	252.0	26.0	422.0	54.0
13/11/2012	18.0	287.0	847.0	2.0	27.0	1.0	40.0	42.0	6.0	2.0	1.0	41.0	3.0		26.0	245.0	34.0	387.0	54.0
13/02/2013	4.0	289.0	471.0	1.0	22.0	13.0	29.0	8.0	8.0	7.0		52.0	2.0	10.0	28.0	237.0	24.0	348.0	47.0
14/05/2013	5.0	295.0	809.0	1.0	6.0	1.0	25.0	12.0	15.0	4.0	1.0	51.0	5.0	62.0	25.0	232.0	24.0	381.0	113.0
6/08/2013	7.0	314.0	89.0	1.0	11.0	1.0	29.0	10.0	16.0	15.0	1.0	51.0	5.0	25.0	27.0	244.0	26.0	378.0	57.0
12/11/2013	17.0	326.0	763.0	2.0	25.0	1.0	51.0		6.0	3.0	1.0	46.0	4.0		26.0	238.0	23.0	342.0	92.0
11/02/2014	24.0	328.0	754.0	4.0	29.0	1.0	43.0		6.0						27.0	228.0	34.0	354.0	104.0
13/05/2014	18.0	256.0	61.0	3.0	27.0	1.0	34.0		5.0	4.0		82.0			26.0	210.0	27.0	346.0	88.0
12/08/2014	30.0	281.0	664.0	2.0	12.0	1.0	30.0		4.0			37.0	2.0		26.0	217.0	30.0	344.0	87.0
10/11/2014	17.0	302.0	711.0	1.0	34.0	1.0	38.0		5.0	6.0		43.0	3.0		27.0	217.0	39.0	350.0	89.0
9/02/2015	6.0	307.0	806.0	1.0	54.0	1.0	43.0	7.0	13.0	5.0	1.0	42.0	5.0	77.0	28.0	207.0	23.0	329.0	74.0
11/05/2015	7.0	270.0	757.0	1.0	38.0	1.0	32.0	8.0	7.0	7.0	1.0	51.0	4.0	32.0	26.0	257.0	24.0	368.0	83.0
11/08/2015	13.0	481.0	1198.0	2.0	34.0	1.0	43.0	9.0	1.0	13.0	1.0	91.0	7.0	NT	44.0	346.0	39.0	571.0	103.0
10/11/2015	13.0	487.0	1170.0	1.0	30.0	1.0	37.0	4.0	8.0	6.0	1.0	106.0	7.0	87.0	44.0	319.0	55.0	569.0	123.0
8/02/2016	20.0	500.0	1250.0	4.0	64.0	2.0	39.0	27.0	12.0	7.0	4.0	103.0	6.0	131.0	44.0	352.0	490.0	569.0	120.0
9/05/2016	21.0	480.0	1320.0	3.0	61.0	1.0	62.0	15.0	22.0	6.0	1.0	98.0	24.0		44.0	195.0	61.0	568.0	122.0
9/08/2016	12.0	464.0	935.0	2.0	31.0	1.0	46.0	11.0	6.0	5.0	1.0	94.0	7.0	92.0	44.0	312.0	40.0	586.0	115.0
7/11/2016	20.0	507.0	1120.0	2.0	62.0		70.0	25.0		5.0	1.0	100.0	9.0		46.0	332.0	59.0	595.0	120.0
8/02/2017	34.0	519.0	1200.0	3.0	59.0		52.0	30.0	8.0	6.0		105.0	6.0	135.0	45.0	348.0	68.0	578.0	114.0
9/05/2017	9.0	474.0	946.0	1.0	69.0		61.0	12.0		11.0		94.0	8.0	115.0	45.0	331.0	42.0	563.0	113.0
9/08/2017	16.0	456.0	973.0	3.0	30.0		50.0	9.0	19.0	5.0		98.0	7.0	84.0	45.0	340.0	38.0	569.0	103.0
8/11/2017	36.0			5.0	72.0	3.0	49.0	18.0	28.0	6.0	2.0	96.0	6.0	145.0	45.0	352.0	42.0	591.0	114.0



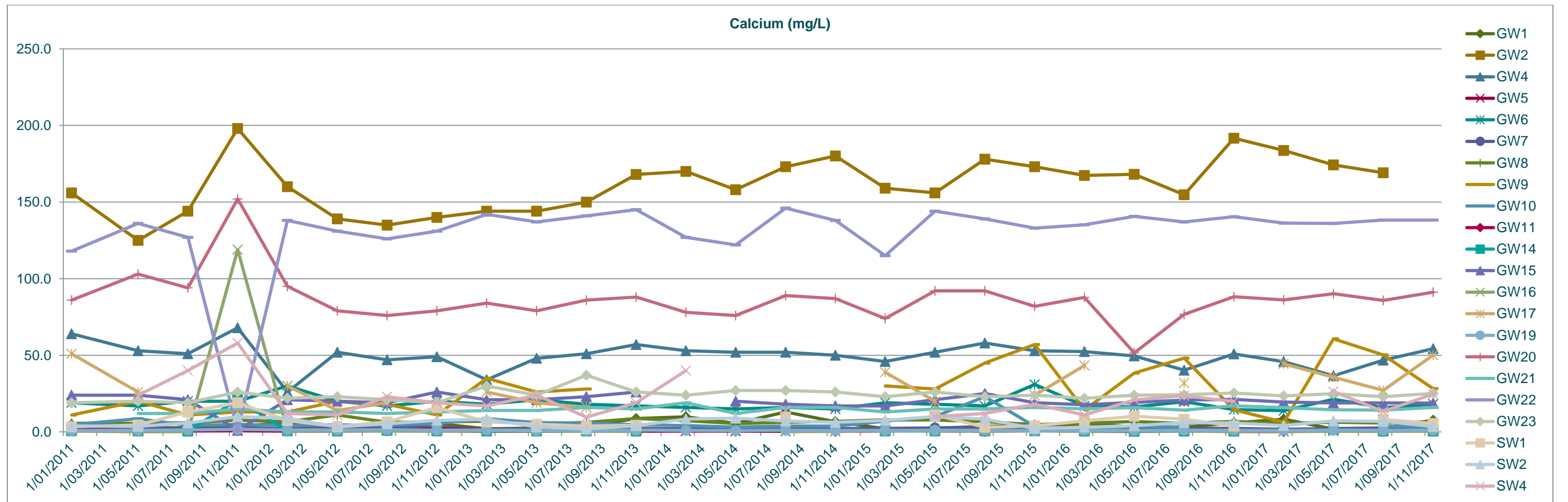
BOD	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	1.00	8.00	7.00	1.00	14.00	6.00	1.60	6.60	1.00	1.80	1.00	1.20	1.00	3.40	1.00	2.40		1.00	9.00	21.00	7.80	
10/05/2011	1.60	10.00	1.80	1.00	3.50	1.50	1.20	2.10	1.20	1.00	1.00	2.40	1.00	5.40	1.20	2.20	1.80	1.00	11.00	3.60	2.40	1.50
9/08/2011	1.80	8.40	12.00	2.40	10.00	2.10	2.70	3.30	5.70	1.80	2.70	2.40	1.00		1.00	4.50	1.00	1.50	4.50	18.00	18.00	2.40
8/11/2011	6.30	8.10	10.00	6.00	7.80	1.50	4.80	5.70	1.00	2.40	5.40	6.30	1.00		1.00	1.00	2.10	1.00	3.60	108.00	6.00	5.10
6/02/2012	2.40	11.00	14.00	2.10	35.00	5.70	1.80	3.00	9.00	1.80	1.80	1.00	3.90	10.00	1.00	1.00	1.50	1.20	5.40	20.00	6.00	6.00
8/05/2012	2.10	1.80	6.60	1.00	14.00	1.00	3.30	2.70	3.00	1.00	1.00	1.00	1.00	14.00	1.80	1.00	1.00	1.00	2.70	1.00	7.80	1.00
6/08/2012	1.50	1.20	3.60	1.00	6.90	3.00	1.00	2.10	3.00	1.00	1.00	1.00	1.00	11.00	2.10	2.40	1.80	1.50	1.20	6.60	1.00	1.00
13/11/2012	1.80	2.70	9.90	1.00	8.40	1.80	3.30	2.10	4.80	1.20	1.00	1.00	1.00		1.00	1.20	2.80	1.00	1.20	9.60	2.70	1.00
13/02/2013	1.00	1.00	8.70	1.00	5.70	15.00	1.20	1.20	6.90	1.00	1.00	1.00	1.00	6.60	1.00	1.00	1.50	1.20	2.00	3.90	14.00	5.20
14/05/2013	1.50	7.20	1.80	1.80	3.90	2.70	1.80	3.00	9.60	1.50	1.00	1.00	1.20	8.70	1.00	2.40	1.00	1.20	12.00	2.40	3.90	1.80
6/08/2013	1.00	8.70	1.00	1.00	3.00	1.00	1.20	2.10	5.70	1.00	1.00	1.00	1.00	12.00	1.00	1.00	4.50	1.00	1.80	1.00	1.00	1.00
12/11/2013	1.00	9.90	3.30	1.50	4.50	1.00	5.40		7.20	1.80	1.80	1.20	1.00		1.00	2.10	1.00	1.20	1.00	6.30	4.50	1.00
11/02/2014	1.00	8.10	3.00	2.70	2.70	2.40	3.90		6.30						1.00	2.10	2.70	1.20	3.90		7.20	5.70
13/05/2014	8.10	2.10	2.10	1.50	2.70	1.00	3.60		3.30	1.50		14.00			1.00	4.20	1.20	1.00	3.90		22.00	
12/08/2014	1.00	4.80	2.70	2.40	1.20	1.00	1.80		3.90			1.80	3.00		1.80	1.80	1.50	1.80	2.10	5.10	5.70	2.70
10/11/2014	2.10	3.60	1.50	3.00	6.30	1.20	1.50		4.20	3.60		2.10	1.80		1.00	1.80	3.00	1.80	1.00		2.70	
9/02/2015	1.00	21.00	190.00	1.80	15.00	1.20	2.10	3.30	3.90	3.90	1.20	1.50	3.60	4.80	1.00	1.00	1.00	1.00	2.10		5.40	
11/05/2015	2.70	4.20	36.00	3.00	17.00	1.50	1.50	4.50	8.10	3.60	2.10	1.00	3.90	6.60	1.00	1.00	1.00	1.50	1.50	6.60	4.00	3.00
11/08/2015	2.10	10.00	14.00	1.80	5.40	1.00	1.00	3.00	5.10	3.30	1.00	1.00	3.00		1.00	1.00	1.00	1.80	17.00	3.60	5.70	2.70
10/11/2015	1.50	5.70	4.50	1.00	6.00	1.00	1.00	1.00	3.00	1.00	1.00	18.00	2.40	3.30	1.00	1.00	1.00	1.00	3.30	2.70	4.80	14.00
8/02/2016	1.00	6.00	10.20	1.80	6.00	1.00	2.10	1.00	4.20	1.00	1.00	3.30	2.10	2.10	1.00	1.00	1.20	1.20	7.20	1.50	1.20	2.70
9/05/2016	1.00	4.80	69.00	1.00	9.60	1.50	1.50	7.80	13.20	1.50	1.00	1.80	10.50		1.00	1.00	2.20	2.40	3.60	13.50	1.80	6.00
9/08/2016	1.00	2.10	12.00	2.10	3.30	1.00	1.20	1.20	1.00	1.00	1.00	2.70	4.20	1.00	1.00	2.70	1.00	2.40	1.00	6.30	6.30	8.10
7/11/2016	1.80	4.20	2.00	1.00	3.00	1.80	2.10	1.80		1.00	1.00	1.00	1.00		1.00	1.00	1.80	1.20	1.00	6.60	6.30	3.30
7/02/2017	1.50	3.30	8.50	1.00	3.60	1.00	1.80	1.00	2.70	1.00		1.00	1.20	3.60	1.00	1.00	3.60	1.00	1.60		3.90	
8/05/2017	1.20	1.80	8.50	1.20	16.50	1.00	2.10	1.20		1.50	1.00	1.00	1.80	3.60	1.00	1.00	1.00	1.20	10.20		3.60	22.00
8/08/2017	1.00	2.10	2.00	1.20	4.50	1.00	1.50	1.50	4.20	1.50	1.00	2.10	1.50	3.00	1.00	2.10	1.00	2.40	1.80	1.00	3.00	3.00
7/11/2017	5.10		4.20	1.50	3.60	1.80	1.50	4.20	5.70	1.50	1.00	1.50	1.00	2.70	1.00	1.00	1.00	1.20	1.50	3.00	1.00	2.70



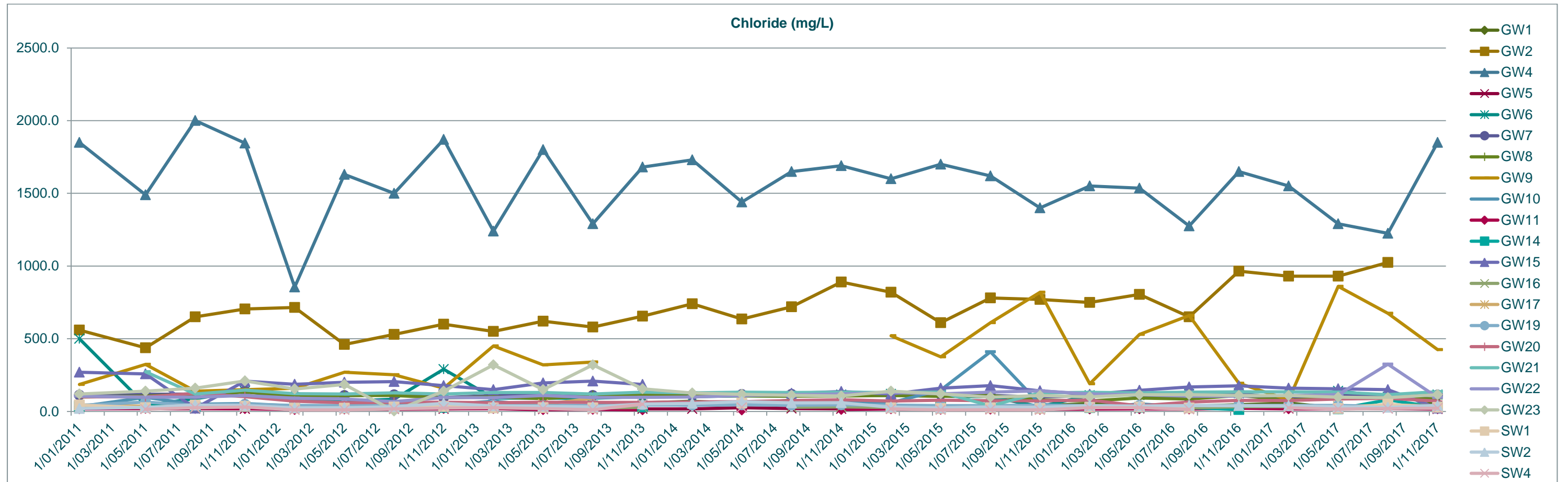
Cd	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4	
31/01/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001		
10/05/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
9/08/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
8/11/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
6/02/2012	0.001	0.004	0.001	0.001	0.003	0.002	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	
8/05/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
6/08/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
13/11/2012	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
13/02/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
14/05/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
6/08/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
12/11/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.002		0.002	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
11/02/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001						0.001	0.001	0.001	0.001	0.001		0.001	0.001	
13/05/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.002		0.001	0.001		0.001			0.001	0.001	0.001	0.001	0.001		0.001		
12/08/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.003		0.001			0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
10/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001		0.001	0.001		0.001	0.001	0.001	0.001	0.001		0.001		
9/02/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	
11/05/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
11/08/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
10/11/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
8/02/2016	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
9/05/2016	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
9/08/2016																					0.001	0.001	0.001
7/11/2016																						0.001	
7/02/2017																							
8/05/2017	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001				
8/08/2017																				0.001		0.001	
7/11/2017																					0.001		



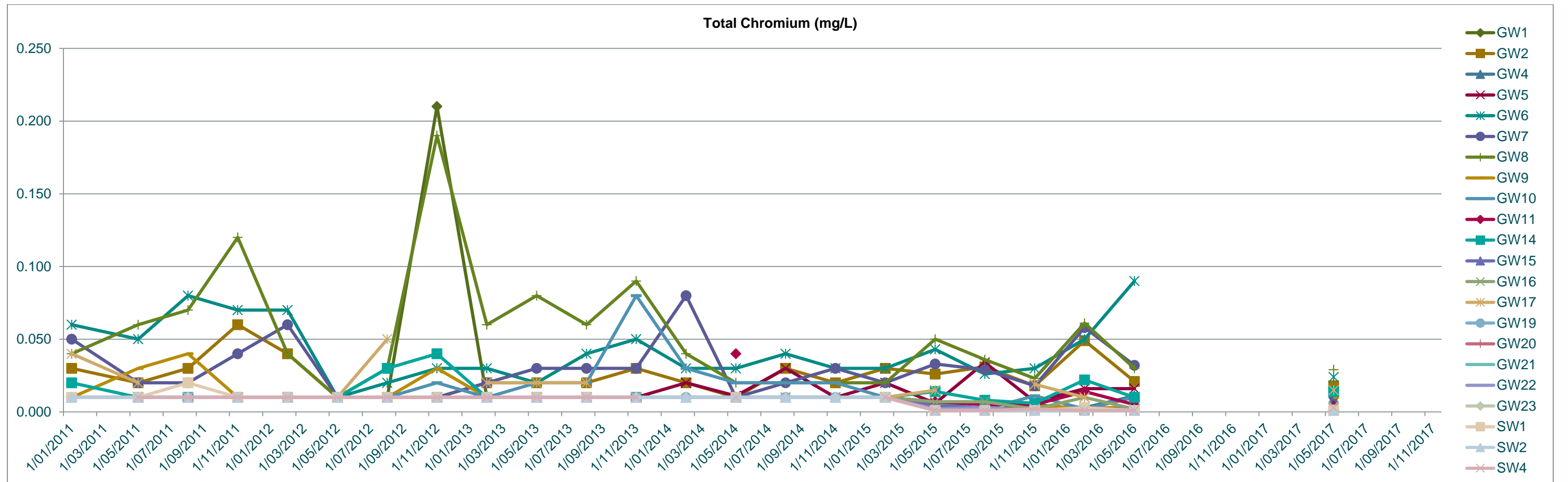
Ca	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	4.8	156.0	64.0	1.2	19.0	1.7	5.7	11.0	4.7	1.7	0.8	24.0	0.5	51.0	1.0	86.0		118.0	19.0	3.4	3.9	
10/05/2011	2.7	125.0	53.0	2.2	17.0	2.6	5.6	20.0	8.6	1.0	0.6	24.0	0.1	26.0	1.1	103.0	12.0	136.0	20.0	4.5	3.6	24.0
9/08/2011	2.7	144.0	51.0	0.7	20.0	2.2	6.0	11.0	4.2	0.6	0.5	21.0	0.2		1.3	94.0	12.0	127.0	19.0	13.0	5.9	40.0
8/11/2011	3.6	198.0	68.0	0.7	20.0	2.6	7.6	13.0	4.9	0.7	21.0	1.1	119.0		1.6	152.0	15.0	0.8	26.0	19.0	9.9	58.0
6/02/2012	6.1	160.0	26.0	0.5	30.0	2.2	6.7	13.0	4.3	1.3	0.7	21.0	0.5	30.0	1.3	95.0	13.0	138.0	22.0	7.4	9.0	12.0
8/05/2012	3.8	139.0	52.0	0.4	20.0	2.9	11.0	20.0	4.6	0.7	0.6	20.0	0.5	14.0	1.3	79.0	13.0	131.0	23.0	3.5	3.3	11.0
6/08/2012	2.8	135.0	47.0	1.2	17.0	3.2	6.3	18.0	4.4	0.8	1.0	19.0	0.5	19.0	1.4	76.0	12.0	126.0	21.0	6.6	5.3	23.0
13/11/2012	5.5	140.0	49.0	0.6	20.0	2.9	6.4	11.0	5.5	2.2	0.6	26.0	0.4		1.2	79.0	13.0	131.0	19.0	16.0	7.5	19.0
13/02/2013	2.1	144.0	34.0	0.4	18.0	1.9	7.0	35.0	8.6	1.4	0.6	21.0	0.7	26.0	1.3	84.0	14.0	142.0	30.0	6.5	8.3	17.0
14/05/2013	2.5	144.0	48.0	0.5	21.0	2.1	5.2	26.0	6.1	0.8	0.6	21.0	0.7	19.0	1.0	79.0	14.0	137.0	24.0	5.0	3.3	24.0
6/08/2013	3.5	150.0	51.0	0.4	18.0	2.2	6.2	28.0	5.8	0.6	0.6	23.0	0.4	16.0	1.0	86.0	16.0	141.0	37.0	3.8	1.9	9.6
12/11/2013	8.7	168.0	57.0	0.5	17.0	2.3	8.7		4.7	0.6	0.5	26.0	0.3		1.2	88.0	15.0	145.0	26.0	4.4	4.0	19.0
11/02/2014	9.8	170.0	53.0	0.5	16.0	2.1	7.3		4.1						1.0	78.0	19.0	127.0	24.0		8.4	40.0
13/05/2014	5.6	158.0	52.0	0.5	15.0	2.0	5.5		3.2	0.4		20.0			0.9	76.0	12.0	122.0	27.0		9.0	
12/08/2014	13.0	173.0	52.0	0.4	16.0	2.6	6.2		3.8			18.0	0.2		1.1	89.0	16.0	146.0	27.0	9.7	7.1	14.0
10/11/2014	6.7	180.0	50.0	0.5	15.0	2.2	6.9		3.8	0.3		17.0	0.3		1.0	87.0	16.0	138.0	26.0		6.2	
9/02/2015	2.1	159.0	46.0	0.8	19.0	2.3	7.9	30.0	7.0	0.7	0.6	17.0	0.9	39.0	1.0	74.0	13.0	115.0	23.0		7.5	
11/05/2015	2.4	156.0	52.0	0.9	18.0	2.6	7.8	28.0	10.0	0.8	0.6	21.0	0.7	20.0	1.1	92.0	15.0	144.0	26.0	11.0	10.0	10.0
11/08/2015	3.6	178.0	58.0	0.9	17.0	2.9	6.7	45.0	23.0	0.3	0.6	25.0	0.3		1.1	92.0	15.0	139.0	23.0	3.1	8.3	12.0
10/11/2015	4.2	173.0	53.0	1.3	31.0	2.3	4.8	57.0	3.6	1.1	0.8	19.0	0.7	24.0	1.0	82.0	16.0	133.0	24.0	3.9	2.3	18.0
8/02/2016	5.1	167.4	52.4	1.4	17.0	2.3	5.7	14.3	2.2	0.4	0.5	17.7	0.4	43.4	1.1	87.8	15.1	135.2	22.0	7.2	3.1	11.0
9/05/2016	3.5	168.2	49.6	0.5	16.3	2.0	6.8	38.4	3.6	0.3	0.5	19.3	0.7		1.0	51.5	15.9	140.7	23.9	10.3	4.0	20.9
9/08/2016	3.1	154.7	40.3	1.0	19.7	2.3	5.6	48.2	3.1	0.6	0.6	20.8	0.5	31.8	1.1	76.8	14.2	137.1	24.2	8.3	6.1	23.7
7/11/2016	5.9	191.6	50.9	0.5	14.6	2.3	6.9	14.5		0.3	0.6	21.2	0.3		1.1	88.2	17.1	140.4	25.4	3.8	5.8	19.8
7/02/2017	8.3	183.6	45.8	0.5	13.9	1.8	5.5	6.3	2.7	0.3		19.4	0.2	44.4	1.0	86.1	15.8	136.3	23.5		4.1	
8/05/2017	1.8	174.2	36.7	2.0	21.3	2.1	6.3	60.8		0.9	1.6	18.9	0.4	35.7	1.2	90.2	14.5	136.1	24.9		7.2	26.4
8/08/2017	2.5	169.1	46.9	1.0	15.9	2.6	5.8	50.2	3.7	0.4	0.6	19.0	0.3	27.1	1.0	85.8	14.2	138.3	23.0	8.2	6.9	13.3
7/11/2017	7.6		54.3	1.1	18.1	2.5	6.7	28.2	3.2	0.7	0.5	18.8	0.5	50.1	1.1	91.1	16.0	138.2	25.2	5.5	3.5	24.7



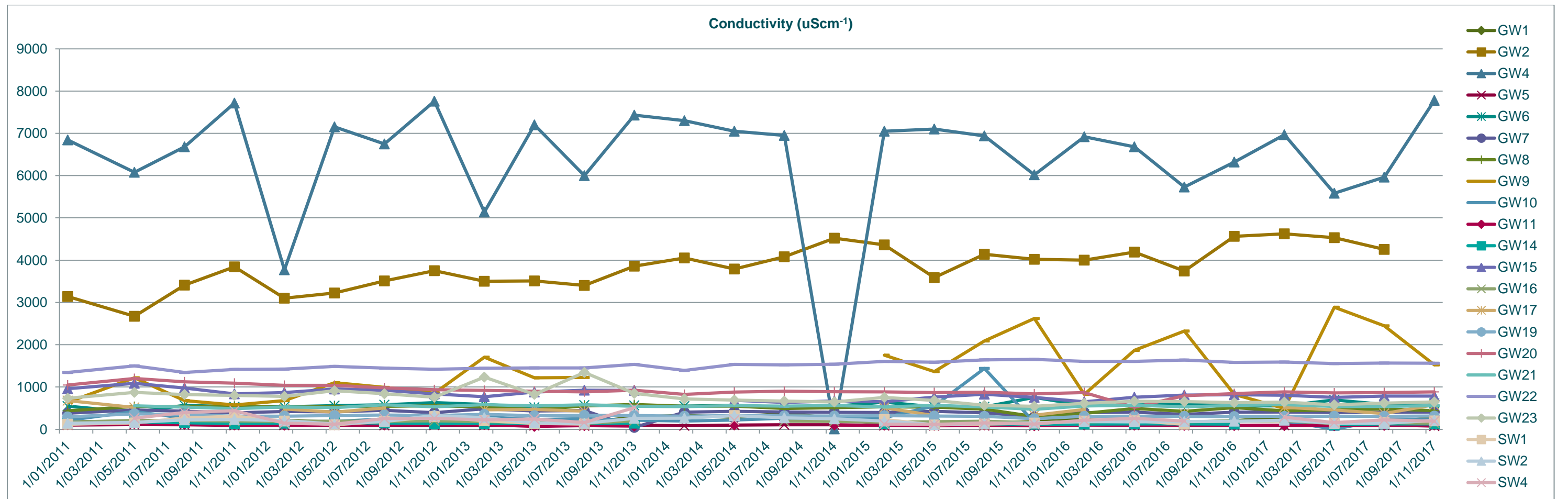
Chloride	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	34.0	560.0	1850.0	22.0	500.0	112.0	99.0	185.0	33.0	18.0	35.0	270.0	27.0	45.0	42.0	100.0		105.0	120.0	44.0	20.0	
10/05/2011	35.0	437.0	1490.0	19.0	44.0	118.0	106.0	324.0	97.0	21.0	36.0	258.0	31.0	36.0	65.0	100.0	273.0	98.0	140.0	25.0	28.0	15.0
9/08/2011	34.0	650.0	2000.0	19.0	88.0	120.0	120.0	140.0	50.0	20.0	32.0	22.5	23.0		42.0	125.0	120.0	98.0	160.0	44.0	44.0	25.0
8/11/2011	36.0	705.0	1845.0	18.0	140.0	140.0	132.0	150.0	54.0	19.0	34.0	208.0	36.0		50.0	101.0	146.0	110.0	210.0	35.0	40.0	30.0
6/02/2012	39.0	715.0	855.0	20.0	86.0	108.0	109.0	159.0	38.0	13.0	33.0	187.0	30.0	36.0	42.0	70.0	122.0	91.0	154.0	22.0	24.0	11.0
8/05/2012	34.0	460.0	1630.0	21.0	70.0	110.0	110.0	270.0	38.0	16.0	30.0	200.0	26.0	35.0	42.0	60.0	120.0	85.0	185.0	22.0	26.0	11.0
6/08/2012	31.0	530.0	1500.0	16.0	84.0	114.0	109.0	252.0	50.0	15.0	30.0	205.0	24.0	41.0	40.0	62.0	128.0	68.0	3.0	30.0	32.0	17.0
13/11/2012	56.0	600.0	1870.0	18.0	290.0	96.0	93.0	160.0	47.0	20.0	28.0	178.0	29.0		42.0	64.0	120.0	96.0	140.0	34.0	56.0	23.0
13/02/2013	27.0	550.0	1240.0	20.0	92.0	110.0	100.0	450.0	70.0	20.0	25.0	150.0	26.0	35.0	44.0	60.0	130.0	95.0	320.0	24.0	38.0	25.0
14/05/2013	32.0	620.0	1800.0	15.0	91.0	120.0	88.0	320.0	40.0	12.0	30.0	196.0	25.0	50.0	40.0	63.0	130.0	110.0	150.0	25.0	35.0	20.0
6/08/2013	40.0	580.0	1290.0	16.0	91.0	110.0	110.0	340.0	39.0	14.0	38.0	208.0	24.0	90.0	42.0	62.0	120.0	96.0	320.0	24.0	31.0	12.0
12/11/2013	59.0	655.0	1680.0	18.0	102.0	119.0	113.0		47.0	11.0	30.0	185.0	28.0		44.0	62.0	132.0	97.0	155.0		51.0	50.0
11/02/2014	70.0	740.0	1730.0	17.0	101.0	111.0	106.0		42.0						43.0	66.0	128.0	99.0	127.0		56.0	
13/05/2014	54.0	635.0	1440.0	25.0	107.0	117.0	107.0		48.0	9.0		112.0			45.0	67.0	132.0	110.0	118.0	58.0	67.0	28.0
12/08/2014	77.0	720.0	1650.0	20.0	106.0	118.0	105.0		60.0			125.0	29.0		43.0	75.0	130.0	115.0	111.0		59.0	
10/11/2014	60.0	890.0	1690.0	17.0	115.0	114.0	106.0		60.0	13.0		137.0	31.0		45.0	81.0	132.0	120.0	106.0		60.0	
9/02/2015	28.0	820.0	1600.0	18.0	120.0	110.0	110.0	520.0	60.0	18.0	31.0	120.0	28.0	40.0	44.0	72.0	130.0	130.0	140.0	24.0	29.0	17.0
11/05/2015	27.0	610.0	1700.0	16.0	105.0	116.0	104.0	375.0	148.0	14.0	29.0	160.0	34.0	30.0	41.0	77.0	132.0	121.0	121.0	20.0	24.0	10.0
11/08/2015	32.0	780.0	1620.0	16.0	100.0	110.0	110.0	610.0	410.0	15.0	30.0	178.0	34.0		40.0	74.0	38.0	132.0	98.0	24.0	31.0	12.0
10/11/2015	40.0	770.0	1400.0	13.0	34.0	100.0	79.0	820.0	51.0	14.0	23.0	142.0	20.0	33.0	44.0	73.0	128.0	142.0	110.0	20.0	29.0	11.0
8/02/2016	53.0	750.0	1550.0	26.0	111.0	107.0	73.0	190.0	21.0	16.0	26.0	118.0	27.0	34.0	41.0	78.0	131.0	120.0	100.0	28.0	39.0	26.0
9/05/2016	40.0	805.0	1535.0	20.0	112.0	114.0	92.0	530.0	52.0	18.0	28.0	145.0	28.0		42.0	38.0	128.0	115.0	115.0	30.0	37.0	26.0
9/08/2016	36.0	650.0	1275.0	16.0	120.0	92.0	85.0	660.0	30.0	16.0	26.0	168.0	24.0	30.0	41.0	65.0	132.0	105.0	115.0	23.0	41.0	14.0
7/11/2016	46.0	965.0	1650.0		125.0	120.0	110.0	194.0		22.0	13.0	176.0	32.5		42.0	76.0	135.0	105.0	110.0		39.5	
7/02/2017	58.0	930.0	1550.0	20.0	85.0	92.0	78.0	80.0	44.0	17.0		160.0	33.0	35.0	42.0	75.0	135.0	110.0	110.0		38.0	24.0
8/05/2017	23.0	930.0	1290.0	17.0	141.0	113.0	93.0	860.0		18.0	17.0	155.0	24.0	36.0	42.0	85.0	132.0	115.0	98.0	20.0	32.0	16.0
8/08/2017	35.0	1025.0	1225.0	20.0	100.0	95.0	90.0	675.0	45.0	30.0	80.0	150.0	45.0	42.5	35.0	90.0	115.0	325.0	95.0	50.0	27.5	20.0
7/11/2017	58.0		1850.0	16.0	115.0	113.0	86.0	425.0	42.0	17.5	27.5	22.5	23.5	40.0	41.5	72.0	136.0	96.0	115.0	27.5	40.0	22.5



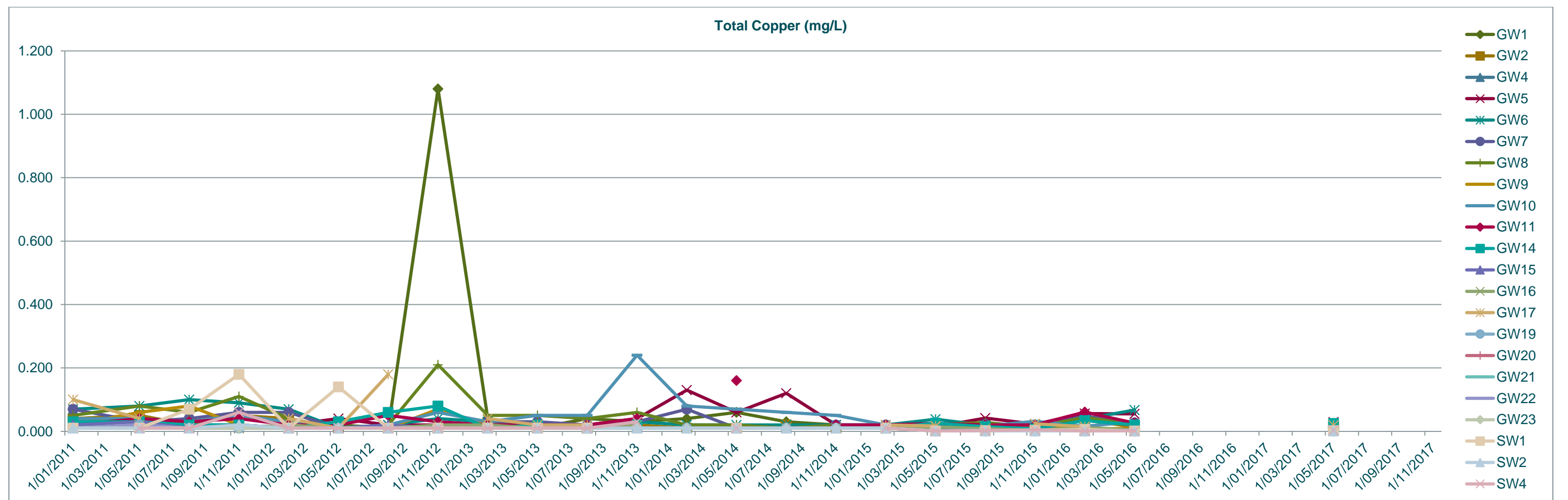
Chromium	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4	
31/01/2011	0.010	0.030	0.010	0.010	0.060	0.050	0.040	0.010	0.010	0.010	0.020	0.010	0.010	0.040	0.010	0.010		0.010	0.010	0.010	0.010		
10/05/2011	0.010	0.020	0.010	0.010	0.050	0.020	0.060	0.030	0.010	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
9/08/2011	0.010	0.030	0.010	0.010	0.080	0.020	0.070	0.040	0.010	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010	0.020	0.010	0.010	
8/11/2011	0.010	0.060	0.010	0.010	0.070	0.040	0.120	0.010	0.010	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
6/02/2012	0.010	0.040	0.010	0.010	0.070	0.060	0.040	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
8/05/2012	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
6/08/2012	0.010	0.010	0.010	0.010	0.020	0.010	0.030	0.010	0.010	0.010	0.030	0.010	0.010	0.050	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
13/11/2012	0.210	0.010	0.010	0.010	0.030	0.010	0.190	0.030	0.020	0.010	0.040	0.010	0.010		0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
13/02/2013	0.010	0.020	0.010	0.010	0.030	0.020	0.060	0.010	0.010	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
14/05/2013	0.010	0.020	0.010	0.010	0.020	0.030	0.080	0.010	0.020	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
6/08/2013	0.010	0.020	0.010	0.010	0.040	0.030	0.060	0.010	0.020	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
12/11/2013	0.010	0.030	0.010	0.010	0.050	0.030	0.090		0.080	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010		0.010	0.010	
11/02/2014	0.010	0.020	0.010	0.020	0.030	0.080	0.040		0.030						0.010	0.010	0.010	0.010	0.010		0.010		
13/05/2014	0.010	0.010	0.010	0.011	0.030	0.010	0.020		0.020	0.040		0.010			0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
12/08/2014	0.010	0.030	0.010	0.030	0.040	0.020	0.020		0.020			0.010	0.010		0.010	0.010	0.010	0.010	0.010		0.010		
10/11/2014	0.010	0.020	0.010	0.010	0.030	0.030	0.020		0.020	0.010		0.010	0.010		0.010	0.010	0.010	0.010	0.010		0.010		
9/02/2015	0.010	0.030	0.010	0.020	0.030	0.020	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
11/05/2015	0.001	0.026	0.007	0.006	0.043	0.033	0.050	0.005	0.006	0.007	0.014	0.004	0.007	0.015	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	
11/08/2015	0.001	0.031	0.007	0.034	0.026	0.029	0.036	0.007	0.002	0.005	0.008	0.003	0.007		0.001	0.002	0.001	0.003	0.001	0.001	0.001	0.001	
10/11/2015	0.005	0.018	0.003	0.007	0.030	0.018	0.023	0.004	0.011	0.005	0.006	0.001	0.002	0.019	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	
8/02/2016	0.002	0.049	0.003	0.016	0.050	0.058	0.061	0.003	0.002	0.014	0.022	0.002	0.010	0.010	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.001	
9/05/2016	0.002	0.021	0.011	0.016	0.090	0.032	0.030	0.003	0.010	0.005	0.010	0.002	0.002		0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	
9/08/2016																							
7/11/2016																							
7/02/2017																							
8/05/2017	0.001	0.018	0.009	0.007	0.024	0.011	0.029	0.010	NT	0.004	0.014	0.002	0.004	0.015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	
8/08/2017																							
7/11/2017																							



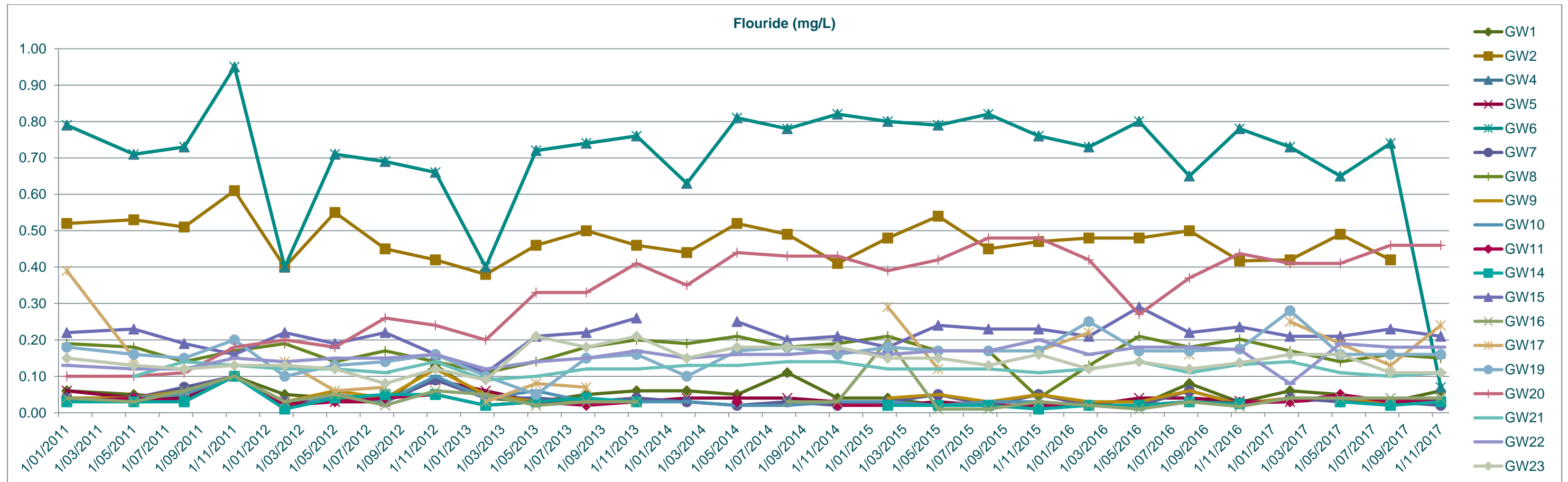
Cond	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	184	3141	6843	99	546	379	438	639	212	109	137	958	165	677	292	1045		1346	732	120	142	
10/05/2011	181	2671	6080	111	399	458	539	1216	419	131	171	1086	212	514	365	1201	556	1498	872	150	163	260
9/08/2011	179	3410	6680	106	567	428	543	680	261	114	156	975	205		350	1123	524	1343	822	265	224	395
8/11/2011	154	3842	7715	90	530	387	546	576	182	101	133	837	196		311	1092	487	1416	803	309	229	439
6/02/2012	211	3100	3770	97	532	420	520	679	181	97	144	867	185	481	311	1038	527	1425	777	193	205	142
8/05/2012	171	3225	7151	96	559	411	541	1101	185	104	153	953	191	406	325	1040	511	1488	911	108	123	118
6/08/2012	160	3510	6750	91	578	449	544	990	241	98	146	923	192	504	339	981	580	1447	841	188	192	255
13/11/2012	266	3750	7760	95	630	394	557	854	228	135	131	838	200		324	934	533	1418	757	301	325	257
13/02/2013	130	3500	5140	95	586	483	529	1705	292	111	140	769	183	462	353	919	582	1444	1233	203	272	224
14/05/2013	136	3510	7200	88	521	432	463	1218	229	68	139	880	162	469	321	902	551	1453	824	138	149	242
6/08/2013	150	3400	6000	84	573	445	552	1226	251	88	139	926	144	430	331	884	578	1451	1344	124	144	158
12/11/2013	289	3858	7430	101	565	42	587		216	74	145	919	198		325	924	543	1535	847		257	510
11/02/2014	328	4052	7298	83	548	405	545		195						309	825	536	1391	718		260	
13/05/2014	282	3790	7050	100	567	425	547		219	100		687			326	882	561	1534	692	326	321	214
12/08/2014	375	4080	6950	109	522	409	490		262			634	191		316	899	548	1524	668		269	
10/11/2014	262	4520	7	109	544	402	512		253	100		671	187		314	887	562	1537	647		248	
9/02/2015	122	4360	7050	86	643	395	533	1754	275	94	130	651	168	510	321	886	526	1606	753	230	196	118
11/05/2015	130	3590	7100	85	532	423	522	1363	551	93	129	762	179	320	315	869	568	1588	681	103	111	116
11/08/2015	149	4140	6940	89	533	389	476	2090	1438	101	129	829	189		304	875	528	1643	569	125	140	152
10/11/2015	177	4020	6020	85	753	301	303	2620	164	82	121	754	156	334	252	838	471	1653	542	146	148	124
8/02/2016	238	4000	6920	120	564	391	377	826	106	98	122	651	176	470	306	869	552	1606	616	196	182	215
9/05/2016	180	4190	6680	94	571	406	490	1868	248	96	127	759	193		311	521	567	1607	663	203	176	257
9/08/2016	166	3744	5728	92	609	354	425	2325	129	91	126	810	179	366	304	791	530	1638	655	121	181	194
7/11/2016	202	4565	6321	92	550	405	514	827		87	124	816	189		302	844	562	1583	632		191	
7/02/2017	288	4624	6965	96	557	407	435	493	194	89		804	202	519	305	883	583	1591	641		215	287
8/05/2017	110	4532	5581	104	694	398	459	2886	NT	82	109	755	136	455	308	862	541	1555	579	139	142	159
8/08/2017	135	4255	5962	102	587	401	482	2447	231	90	126	787	159	373	306	867	540	1565	619	159	140	224
7/11/2017	289		7777	74	610	408	442	1524	231	99	125	786	142	580	312	884	558	1561	646	199	216	190



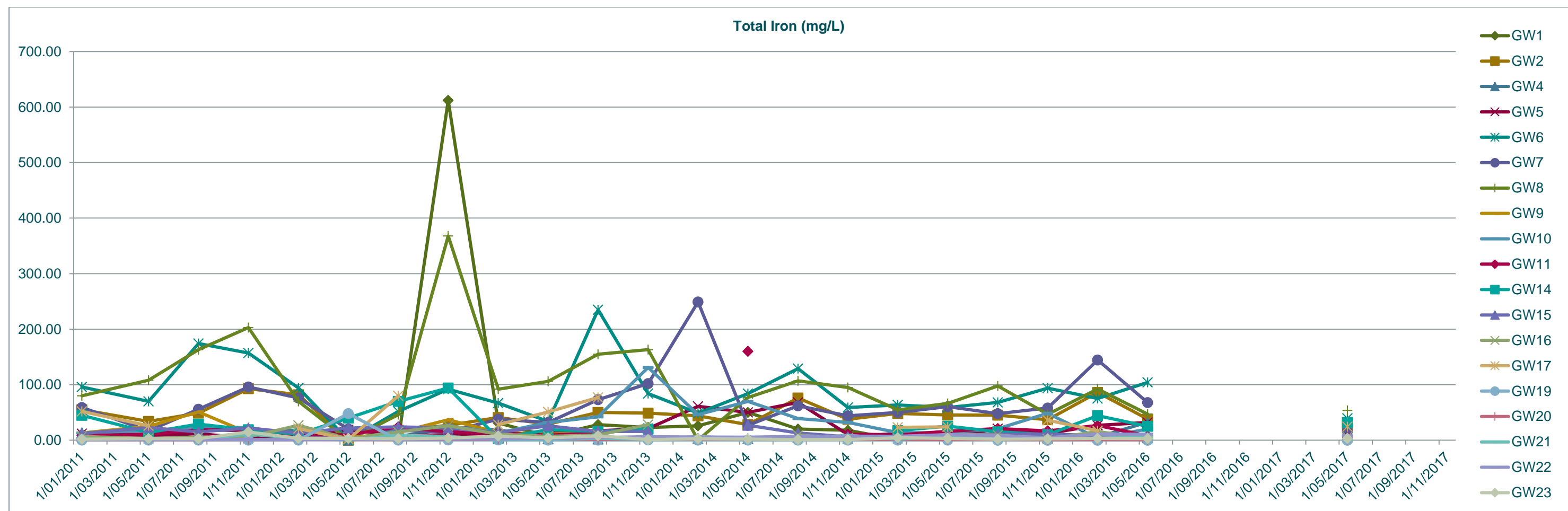
Cu	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	0.010	0.040	0.010	0.030	0.070	0.070	0.050	0.020	0.040	0.020	0.030	0.020	0.010	0.100	0.010	0.010		0.010	0.010	0.010	0.010	
10/05/2011	0.040	0.050	0.020	0.030	0.080	0.030	0.080	0.060	0.040	0.040	0.030	0.030	0.020	0.040	0.020	0.010	0.010	0.020	0.010	0.010	0.010	0.010
9/08/2011	0.010	0.020	0.020	0.020	0.100	0.040	0.060	0.080	0.030	0.030	0.020	0.010	0.010		0.010	0.010	0.010	0.010	0.010	0.070	0.010	0.010
8/11/2011	0.010	0.050	0.020	0.010	0.090	0.060	0.110	0.020	0.050	0.040	0.020	0.020	0.010		0.010	0.010	0.010	0.010	0.010	0.180	0.020	0.060
6/02/2012	0.010	0.040	0.010	0.020	0.070	0.060	0.040	0.010	0.030	0.020	0.010	0.010	0.020	0.040	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
8/05/2012	0.020	0.010	0.010	0.040	0.010	0.010	0.010	0.010	0.010	0.020	0.030	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.140	0.010	0.010
6/08/2012	0.010	0.010	0.010	0.020	0.020	0.010	0.020	0.010	0.020	0.050	0.060	0.020	0.010	0.180	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
13/11/2012	1.080	0.010	0.010	0.020	0.040	0.010	0.210	0.070	0.060	0.030	0.080	0.010	0.020		0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
13/02/2013	0.040	0.020	0.020	0.010	0.030	0.030	0.050	0.020	0.030	0.020	0.010	0.010	0.020	0.040	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
14/05/2013	0.010	0.010	0.010	0.020	0.020	0.030	0.050	0.020	0.050	0.020	0.020	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
6/08/2013	0.040	0.010	0.010	0.020	0.020	0.020	0.040	0.010	0.050	0.020	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
12/11/2013	0.030	0.020	0.010	0.040	0.030	0.030	0.060		0.240	0.040	0.020	0.010	0.020		0.010	0.010	0.010	0.010	0.010		0.010	0.030
11/02/2014	0.040	0.010	0.010	0.130	0.020	0.070	0.020		0.080						0.010	0.010	0.010	0.010	0.010		0.010	
13/05/2014	0.060	0.010	0.010	0.060	0.020	0.010	0.020		0.070	0.160		0.010			0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
12/08/2014	0.030	0.020	0.010	0.120	0.020	0.010	0.010		0.060			0.010	0.010		0.010	0.010	0.010	0.010	0.010		0.010	
10/11/2014	0.020	0.010	0.010	0.020	0.020	0.020	0.020		0.050	0.020		0.010	0.010		0.010	0.010	0.010	0.010	0.010		0.010	
9/02/2015	0.010	0.010	0.020	0.010	0.020	0.020	0.010	0.010	0.020	0.020	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
11/05/2015	0.001	0.015	0.006	0.014	0.038	0.012	0.021	0.008	0.017	0.025	0.026	0.004	0.014	0.017	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001
11/08/2015	0.001	0.023	0.007	0.042	0.019	0.022	0.028	0.015	0.017	0.020	0.015	0.004	0.009		0.001	0.003	0.001	0.004	0.002	0.002	0.001	0.002
10/11/2015	0.015	0.010	0.003	0.023	0.020	0.013	0.013	0.012	0.032	0.020	0.008	0.005	0.003	0.024	0.001	0.002	0.001	0.002	0.003	0.003	0.001	0.005
8/02/2016	0.005	0.036	0.003	0.056	0.039	0.048	0.044	0.008	0.016	0.061	0.034	0.005	0.012	0.015	0.001	0.001	0.001	0.002	0.001	0.006	0.001	0.001
9/05/2016	0.006	0.014	0.010	0.055	0.067	0.027	0.021	0.009	0.030	0.026	0.020	0.004	0.004		0.001	0.002	0.001	0.003	0.001	0.001	0.001	0.001
9/08/2016																						
7/11/2016																						
7/02/2017																						
8/05/2017	0.002	0.013	0.006	0.029	0.021	0.011	0.022	0.001		0.014	0.025	0.005	0.005	0.019	0.001	0.004	0.001	0.003	0.004	0.002	0.001	0.003
8/08/2017																						
7/11/2017																						



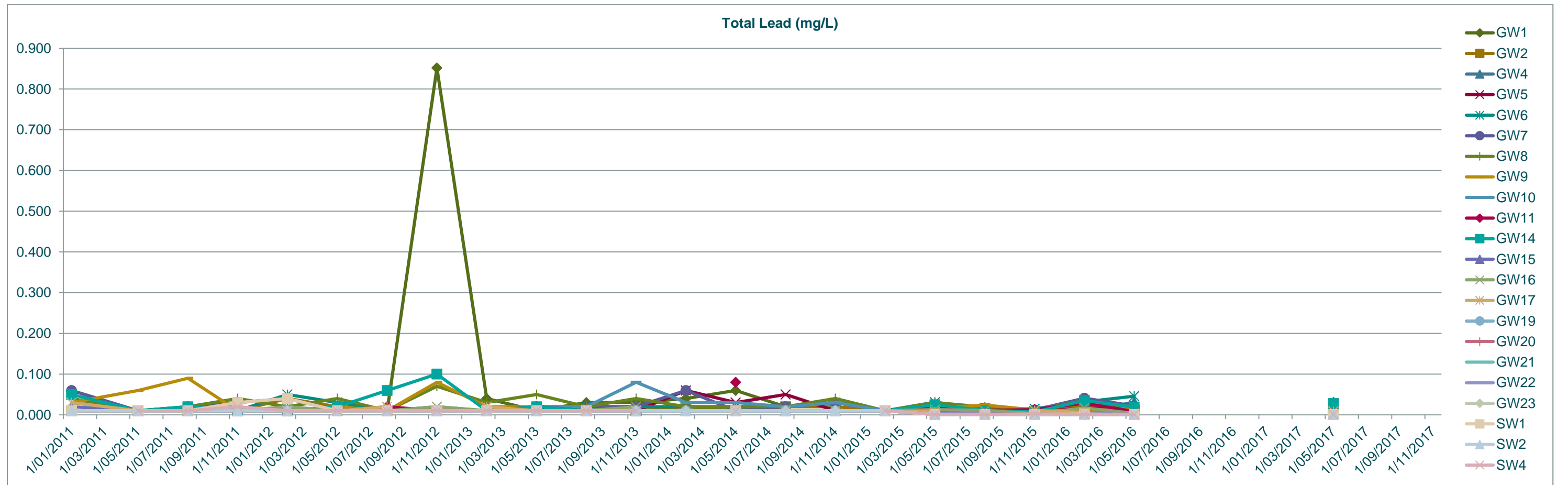
Flouride	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	0.06	0.52	0.79	0.06	0.79	0.04	0.19	0.04	0.03	0.03	0.03	0.22	0.04	0.39	0.18	0.10		0.13	0.15
10/05/2011	0.05	0.53	0.71	0.04	0.71	0.04	0.18	0.04	0.04	0.04	0.03	0.23	0.03	0.15	0.16	0.10	0.10	0.12	0.13
9/08/2011	0.04	0.51	0.73	0.04	0.73	0.07	0.14	0.06	0.05	0.03	0.03	0.19	0.06		0.15	0.11	0.14	0.12	0.12
8/11/2011	0.10	0.61	0.95	0.10	0.95	0.10	0.17	0.10	0.10	0.10	0.10	0.16	0.10		0.20	0.18	0.13	0.15	0.13
6/02/2012	0.05	0.40	0.40	0.03	0.40	0.03	0.19	0.03	0.01	0.02	0.01	0.22	0.03	0.14	0.10	0.20	0.12	0.14	0.13
8/05/2012	0.04	0.55	0.71	0.03	0.71	0.05	0.14	0.06	0.05	0.03	0.04	0.19	0.05	0.06	0.13	0.18	0.12	0.15	0.12
6/08/2012	0.03	0.45	0.69	0.03	0.69	0.03	0.17	0.04	0.03	0.04	0.05	0.22	0.02	0.07	0.14	0.26	0.11	0.15	0.08
13/11/2012	0.13	0.42	0.66	0.09	0.66	0.09	0.14	0.12	0.10	0.05	0.05	0.16	0.06		0.16	0.24	0.14	0.16	0.12
13/02/2013	0.04	0.38	0.40	0.06	0.40	0.04	0.11	0.05	0.04	0.02	0.02	0.11	0.05	0.03	0.10	0.20	0.09	0.12	0.09
14/05/2013	0.03	0.46	0.72	0.03	0.72	0.04	0.14	0.03	0.06	0.03	0.03	0.21	0.02	0.08	0.05	0.33	0.10	0.14	0.21
6/08/2013	0.05	0.50	0.74	0.03	0.74	0.03	0.18	0.03	0.03	0.02	0.04	0.22	0.03	0.07	0.15	0.33	0.12	0.15	0.18
12/11/2013	0.06	0.46	0.76	0.03	0.76	0.04	0.20		0.03	0.03	0.03	0.26	0.03		0.16	0.41	0.12	0.17	0.21
11/02/2014	0.06	0.44	0.63	0.04	0.63	0.03	0.19		0.03						0.10	0.35	0.13	0.15	0.15
13/05/2014	0.05	0.52	0.81	0.04	0.81	0.02	0.21		0.02	0.03		0.25			0.17	0.44	0.13	0.16	0.18
12/08/2014	0.11	0.49	0.78	0.04	0.78	0.03	0.18		0.02			0.20	0.03		0.18	0.43	0.14	0.16	0.18
10/11/2014	0.04	0.41	0.82	0.03	0.82	0.02	0.19		0.03	0.02		0.21	0.03		0.16	0.43	0.14	0.17	0.18
9/02/2015	0.04	0.48	0.80	0.02	0.80	0.03	0.21	0.04	0.03	0.02	0.02	0.18	0.20	0.29	0.18	0.39	0.12	0.16	0.15
11/05/2015	0.02	0.54	0.79	0.03	0.79	0.05	0.17	0.05	0.02	0.02	0.02	0.24	0.01	0.12	0.17	0.42	0.12	0.17	0.15
11/08/2015	0.02	0.45	0.82	0.02	0.82	0.02	0.17	0.03	0.03	0.02	0.02	0.23	0.01		0.17	0.48	0.12	0.17	0.13
10/11/2015	0.02	0.47	0.76	0.02	0.76	0.05	0.04	0.05	0.03	0.02	0.01	0.23	0.03	0.17	0.17	0.48	0.11	0.20	0.16
8/02/2016	0.02	0.48	0.73	0.02	0.73	0.02	0.13	0.03	0.02	0.02	0.02	0.21	0.02	0.22	0.25	0.42	0.12	0.16	0.12
9/05/2016	0.02	0.48	0.80	0.04	0.80	0.02	0.21	0.03	0.02	0.02	0.02	0.29	0.01		0.17	0.27	0.14	0.18	0.14
9/08/2016	0.08	0.50	0.65	0.04	0.65	0.06	0.18	0.06	0.03	0.03	0.03	0.22	0.03	0.16	0.17	0.37	0.11	0.18	0.12
7/11/2016	0.03	0.42	0.78	0.03	0.78	0.03	0.20	0.02		0.03	0.03	0.24	0.02		0.18	0.44	0.13	0.17	0.14
7/02/2017	0.06	0.42	0.73	0.03	0.73	0.04	0.17	0.04	0.03	0.03		0.21	0.04	0.25	0.28	0.41	0.14	0.08	0.16
8/05/2017	0.05	0.49	0.65	0.04	0.65	0.03	0.14	0.04		0.05	0.03	0.21	0.04	0.19	0.16	0.41	0.11	0.19	0.16
8/08/2017	0.03	0.42	0.74	0.03	0.74	0.03	0.16	0.03	0.03	0.03	0.02	0.23	0.04	0.13	0.16	0.46	0.10	0.18	0.11
7/11/2017	0.06		0.07	0.04	0.07	0.02	0.15	0.03	0.03	0.03	0.03	0.21	0.04	0.24	0.16	0.46	0.11	0.18	0.11



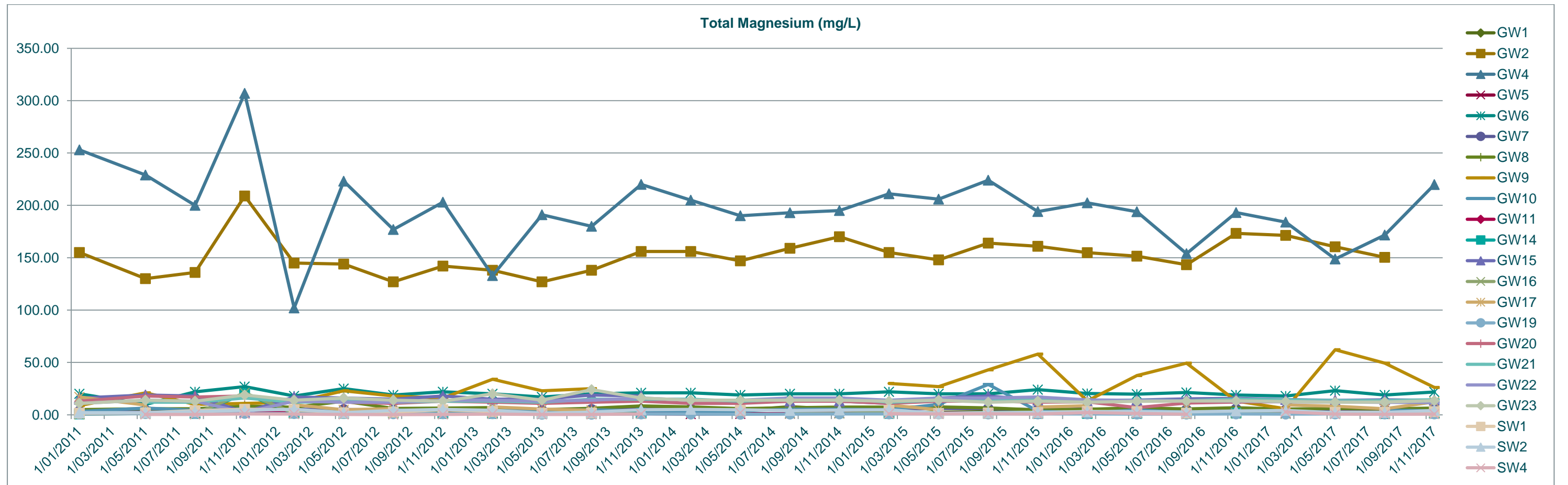
Fe	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	1.03	55.00	13.00	12.00	96.00	59.00	80.00	13.00	13.00	8.19	45.00	12.00	6.77	52.00	0.25	0.99		0.98	1.73
10/05/2011	0.78	34.00	7.69	8.09	70.00	17.00	108.00	25.00	17.00	11.00	14.00	23.00	3.19	26.00	0.23	0.89	2.73	1.11	2.96
9/08/2011	2.53	49.00	19.00	12.00	174.00	56.00	163.00	51.00	23.00	19.00	29.00	15.00	5.90		0.19	1.03	1.76	1.09	2.63
8/11/2011	4.97	93.00	17.00	3.68	157.00	96.00	203.00	13.00	23.00	18.00	19.00	22.00	6.04		0.42	1.12	11.00	1.14	15.00
6/02/2012	2.55	82.00	18.00	7.53	94.00	76.00	70.00	5.86	9.48	10.00	11.00	13.00	27.00	21.00	0.24	1.05	3.49	0.99	3.35
8/05/2012	1.48	0.01	0.33	19.00	0.02	20.00	0.10	4.18	0.44	9.79	40.00	22.00	2.49	1.40	48.00	0.79	0.13	1.18	3.44
6/08/2012	0.99	18.00	6.67	8.33	52.00	18.00	46.00	14.00	17.00	24.00	70.00	24.00	15.00	80.00	0.37	1.12	9.05	1.61	2.87
13/11/2012	612.00	27.00	21.00	10.00	92.00	15.00	368.00	37.00	26.00	15.00	94.00	22.00	26.00		0.44	1.48	6.65	1.98	3.81
13/02/2013	31.00	41.00	19.00	8.57	67.00	38.00	92.00	14.00	13.00	13.00	3.41	14.00	11.00	28.00	0.58	1.43	1.25	2.36	7.66
14/05/2013	7.10	29.00	2.33	13.00	34.00	32.00	106.00	11.00	32.00	9.23	19.00	26.00	6.99	51.00	0.30	1.73	1.22	2.76	4.18
6/08/2013	28.00	50.00	2.23	17.00	235.00	73.00	155.00	14.00	42.00	13.00	16.00	16.00	9.56	77.00	0.26	1.36	3.57	4.97	7.94
12/11/2013	23.00	49.00	6.84	21.00	84.00	102.00	163.00		131.00	21.00	20.00	16.00	28.00		0.46	2.15	1.86	6.26	1.06
11/02/2014	26.00	44.00	3.45	61.00	49.00	249.00	0.16		46.00						0.24	1.66	6.84	5.73	2.81
13/05/2014	50.00	28.00	2.67	50.00	84.00	27.00	77.00		70.00	160.00		27.00			0.26	2.11	2.76	5.40	2.22
12/08/2014	20.00	76.00	4.85	68.20	129.00	62.00	107.00		39.00			13.00	9.20		0.14	1.84	2.91	7.13	1.30
10/11/2014	18.00	38.00	3.78	10.00	59.00	44.00	95.00		32.00	11.00		6.12	3.64		0.14	1.65	8.80	7.35	1.23
9/02/2015	0.82	48.10	13.40	10.50	63.50	50.00	54.60	6.65	13.80	9.37	17.30	7.02	3.30	23.20	0.19	1.45	2.22	7.11	4.62
11/05/2015	1.22	45.60	11.60	6.30	58.80	60.40	66.20	6.22	13.30	16.10	25.40	9.32	10.20	24.20	0.15	1.30	6.64	9.96	3.24
11/08/2015	0.32	45.30	11.10	20.90	68.00	47.90	97.60	11.70	20.60	21.00	15.10	11.10	9.48		0.10	1.61	1.73	8.25	1.85
10/11/2015	10.63	36.96	4.27	12.14	93.77	57.92	46.69	4.24	48.46	16.83	10.06	11.28	2.52	35.93	0.11	0.94	4.02	4.51	2.50
8/02/2016	3.82	86.21	5.45	26.96	75.19	144.46	92.12	5.37	3.57	26.48	44.20	8.62	15.53	17.15	0.12	1.33	3.49	10.83	3.21
9/05/2016	3.05	38.15	32.70	32.09	104.30	67.78	47.08	7.39	20.09	7.83	25.03	5.13	3.35		0.09	0.77	6.01	10.85	3.04
9/08/2016																			
7/11/2016																			
7/02/2017																			
8/05/2017	0.69	28.34	27.03	15.56	39.47	15.72	53.66	0.84		5.87	31.98	5.71	6.21	24.41	0.07	1.36	1.58	8.10	3.17
8/08/2017																			
7/11/2017																			



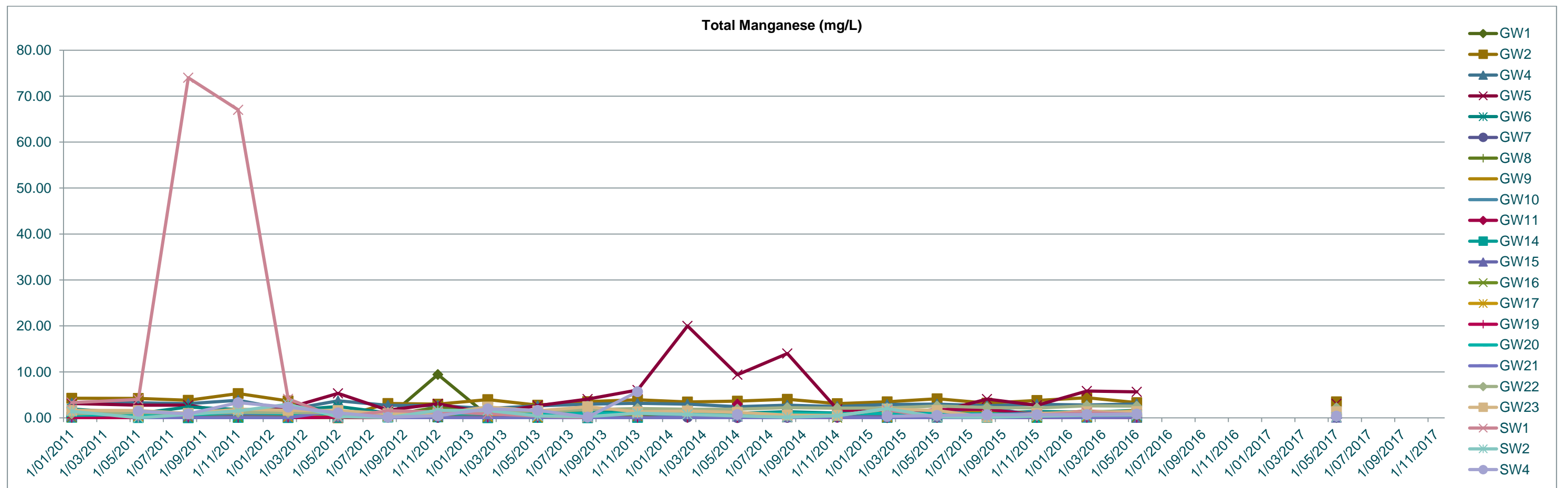
Pb	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	0.010	0.010	0.010	0.010	0.030	0.060	0.040	0.030	0.010	0.010	0.050	0.020	0.010	0.030	0.010	0.010		0.010	0.010	0.010	0.010	
10/05/2011	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.060	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
9/08/2011	0.010	0.010	0.010	0.010	0.010	0.020	0.020	0.090	0.010	0.010	0.020	0.010	0.010		0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
8/11/2011	0.010	0.010	0.010	0.010	0.010	0.030	0.040	0.010	0.010	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010	0.030	0.010	0.020
6/02/2012	0.010	0.040	0.010	0.010	0.050	0.040	0.020	0.010	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.040	0.010	0.010
8/05/2012	0.010	0.020	0.010	0.010	0.030	0.010	0.040	0.020	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
6/08/2012	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.020	0.060	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
13/11/2012	0.852	0.010	0.010	0.010	0.010	0.010	0.070	0.080	0.020	0.010	0.100	0.010	0.020		0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
13/02/2013	0.040	0.010	0.010	0.010	0.010	0.010	0.030	0.020	0.010	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
14/05/2013	0.010	0.010	0.010	0.010	0.020	0.020	0.050	0.020	0.020	0.020	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
6/08/2013	0.030	0.010	0.010	0.010	0.020	0.020	0.020	0.020	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
12/11/2013	0.030	0.010	0.010	0.010	0.020	0.020	0.040		0.080	0.010	0.010	0.010	0.020		0.010	0.010	0.010	0.010	0.010		0.010	0.010
11/02/2014	0.040	0.020	0.010	0.060	0.020	0.060	0.020		0.030						0.010	0.010	0.010	0.010	0.010		0.010	
13/05/2014	0.060	0.010	0.010	0.030	0.020	0.010	0.020		0.030	0.080		0.010			0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
12/08/2014	0.020	0.020	0.010	0.050	0.020	0.020	0.020		0.020			0.010	0.010		0.010	0.010	0.010	0.010	0.010		0.010	
10/11/2014	0.030	0.020	0.010	0.010	0.030	0.030	0.040		0.030	0.010		0.010	0.010		0.010	0.010	0.010	0.010	0.010		0.010	
9/02/2015	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
11/05/2015	0.002	0.018	0.013	0.008	0.031	0.023	0.030	0.016	0.006	0.017	0.025	0.006	0.013	0.007	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001
11/08/2015	0.001	0.016	0.009	0.014	0.014	0.016	0.019	0.024	0.003	0.011	0.011	0.005	0.011		0.001	0.002	0.001	0.002	0.001	0.001	0.001	0.001
10/11/2015	0.010	0.008	0.002	0.008	0.015	0.012	0.010	0.012	0.011	0.013	0.007	0.002	0.003	0.011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
8/02/2016	0.004	0.025	0.005	0.016	0.032	0.041	0.035	0.009	0.002	0.029	0.035	0.003	0.017	0.006	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001
9/05/2016	0.003	0.010	0.032	0.016	0.046	0.022	0.017	0.017	0.010	0.008	0.019	0.002	0.004		0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001
9/08/2016																						
7/11/2016																						
7/02/2017																						
8/05/2017	0.002	0.010	0.031	0.011	0.014	0.008	0.021	0.003		0.007	0.028	0.004	0.009	0.008	0.001	0.001	0.001	0.003	0.001	0.001	0.001	0.001
8/08/2017																						
7/11/2017																						



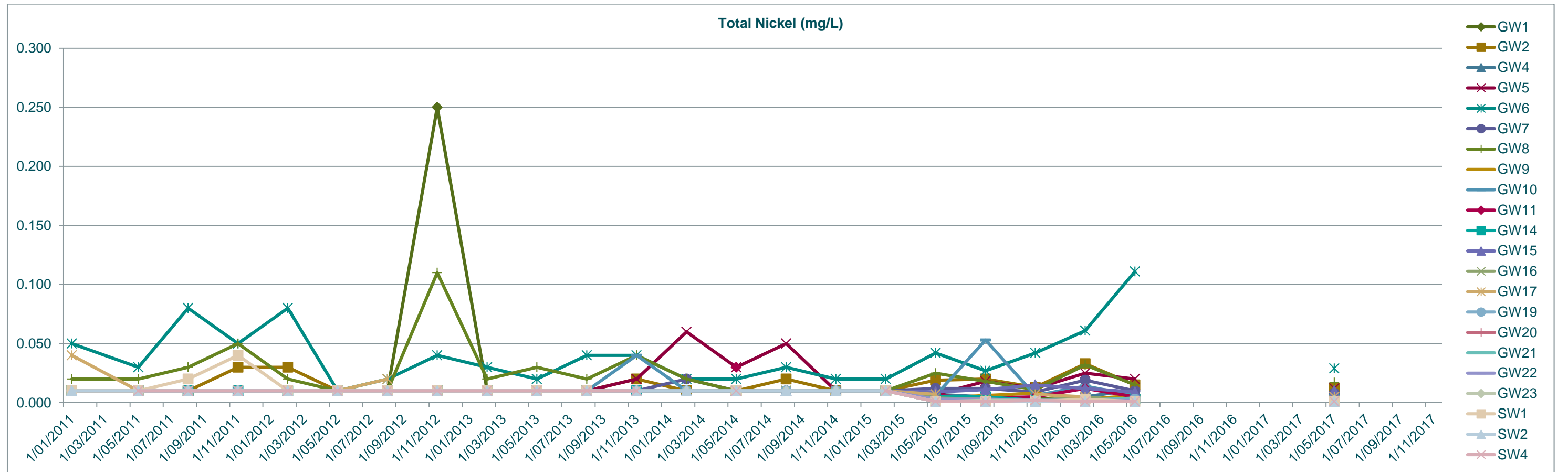
Mg	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	2.50	155.00	253.00	1.00	20.00	3.60	5.00	8.80	3.20	1.50	0.90	16.00	0.60	17.00	0.70	13.00		11.00	11.00	1.60	2.10	
10/05/2011	2.60	130.00	229.00	1.40	10.00	4.30	5.80	21.00	6.40	2.00	1.60	19.00	1.20	9.30	1.10	18.00	12.00	14.00	14.00	1.90	2.20	0.37
9/08/2011	3.40	136.00	200.00	1.20	22.00	4.10	5.80	10.00	4.30	1.70	1.40	18.00	1.10		1.20	17.00	12.00	13.00	13.00	4.00	3.10	0.44
8/11/2011	4.20	209.00	307.00	2.20	27.00	5.90	8.30	11.00	5.80	2.50	20.00	2.40	21.00		1.40	18.00	16.00	2.10	19.00	5.30	4.30	0.81
6/02/2012	4.20	145.00	102.00	1.30	18.00	5.30	7.20	12.00	3.40	1.90	1.70	17.00	1.60	9.70	1.10	14.00	12.00	13.00	14.00	4.80	5.40	0.67
8/05/2012	3.30	144.00	223.00	1.20	25.00	5.20	13.00	23.00	3.90	1.40	1.50	16.00	1.40	4.90	1.10	12.00	13.00	12.00	16.00	2.00	2.20	0.38
6/08/2012	3.20	127.00	177.00	1.50	19.00	4.70	6.20	18.00	4.70	1.70	1.80	15.00	1.30	6.00	1.00	11.00	12.00	12.00	14.00	2.60	4.20	0.24
13/11/2012	4.90	142.00	203.00	0.80	22.00	5.10	6.50	16.00	3.50	3.60	1.40	18.00	1.10		1.00	13.00	13.00	14.00	13.00	4.90	5.20	0.40
13/02/2013	2.20	138.00	133.00	1.20	20.00	4.60	7.00	34.00	3.90	1.90	1.30	15.00	2.00	7.60	1.00	12.00	13.00	14.00	20.00	3.20	4.40	0.65
14/05/2013	2.20	127.00	191.00	1.00	17.00	4.30	4.90	23.00	4.00	0.80	1.10	15.00	1.30	5.50	0.60	11.00	12.00	13.00	14.00	1.50	1.70	0.36
6/08/2013	2.50	138.00	180.00	1.00	20.00	5.20	6.30	25.00	4.90	1.30	1.30	19.00	1.10	4.30	0.60	12.00	15.00	14.00	24.00	1.80	2.60	0.40
12/11/2013	6.30	156.00	220.00	1.00	21.00	5.10	8.50		3.70	1.20	1.50	18.00	1.10		0.80	13.00	15.00	16.00	16.00		4.90	0.91
11/02/2014	6.50	156.00	205.00	0.70	21.00	5.60	7.60		3.50						0.70	11.00	15.00	14.00	14.00		5.20	
13/05/2014	4.50	147.00	190.00	0.80	19.00	4.90	5.90		3.50	1.10		12.00			0.60	11.00	13.00	14.00	14.00	4.30	4.90	1.97
12/08/2014	7.80	159.00	193.00	1.20	20.00	5.40	6.70		5.30			13.00	1.40		0.70	13.00	15.00	16.00	14.00		4.00	
10/11/2014	5.50	170.00	195.00	1.50	20.00	5.50	7.40		5.40	1.70		13.00	1.40		0.80	13.00	16.00	16.00	14.00		4.60	
9/02/2015	1.80	155.00	211.00	1.10	22.00	5.30	7.40	30.00	4.90	1.50	1.30	11.00	1.80	9.40	0.80	11.00	12.00	14.00	13.00	4.40	4.80	0.94
11/05/2015	2.40	148.00	206.00	1.40	20.00	6.20	7.60	27.00	10.00	1.80	1.50	16.00	1.60	4.80	0.90	13.00	14.00	16.00	14.00	1.40	1.50	0.84
11/08/2015	3.10	164.00	224.00	1.60	20.00	5.90	6.60	43.00	29.00	2.00	1.50	18.00	1.50		0.80	13.00	14.00	16.00	12.00	1.80	2.10	0.96
10/11/2015	4.00	161.00	194.00	1.60	24.00	4.90	4.70	58.00	3.50	1.80	1.40	14.00	2.10	7.40	0.80	12.00	14.00	17.00	13.00	2.30	2.40	0.76
8/02/2016	4.91	154.80	202.41	2.00	20.35	5.61	5.41	13.30	1.79	1.69	1.37	12.88	1.60	8.75	0.79	12.42	13.87	14.35	11.99	3.25	3.01	2.18
9/05/2016	3.41	151.48	193.99	1.24	19.74	4.91	6.61	37.58	4.73	1.74	1.34	14.10	1.82		0.71	6.94	14.14	13.89	12.87	3.11	3.15	1.29
9/08/2016	3.52	143.28	153.94	1.53	21.34	4.93	5.64	49.28	2.26	1.81	1.29	15.30	1.69	6.55	0.77	11.19	13.53	13.45	13.14	1.60	2.71	0.48
7/11/2016	4.67	173.28	193.15	1.43	18.88	5.62	6.80	13.20		1.49	1.58	15.76	1.51		0.78	12.26	14.96	13.12	13.42		3.75	
7/02/2017	5.86	171.42	183.96	1.27	17.97	4.67	5.44	5.86	3.46	1.30		14.62	1.04	9.53	0.74	12.51	14.31	12.44	12.66		4.15	2.80
8/05/2017	1.81	160.42	148.84	2.32	23.08	5.33	6.14	62.09		1.56	1.66	13.88	1.18	8.23	0.88	12.99	13.60	12.25	12.10	2.39	2.16	0.66
8/08/2017	2.61	150.38	171.68	1.54	18.94	5.24	5.73	49.44	4.35	1.58	1.21	14.22	0.99	5.74	0.80	12.41	13.53	11.85	12.16	2.46	2.30	0.53
7/11/2017	5.69		219.81	1.34	21.81	5.73	6.40	26.15	3.87	1.86	1.51	13.93	1.52	12.41	0.79	13.01	14.50	11.66	13.46	3.14	4.15	0.74



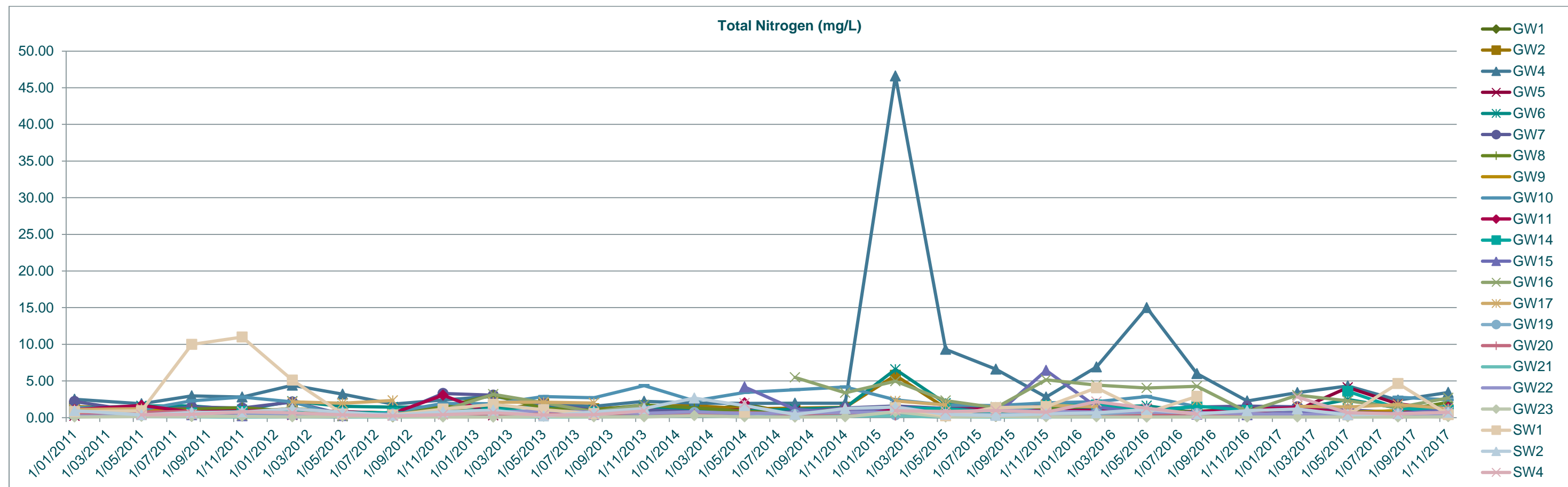
Mn	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4	
31/01/2011	0.19	4.24	3.18	3.14	1.91	0.16	0.60	0.35	0.56	0.62	0.13	0.34	0.09	0.78	0.02	0.56		0.88	1.63	3.30	1.42		
10/05/2011	0.08	4.21	3.28	2.76	0.95	0.13	0.84	0.79	0.78	0.40	0.04	0.49	0.04	0.29	0.01	0.70	0.01	1.15	1.57	4.01	0.01	1.45	
9/08/2011	0.17	3.80	3.09	2.74	2.37	0.17	0.95	0.41	0.71	0.61	0.03	0.42	0.11		0.01	0.64	0.01	1.04	0.96	74.00	0.73	0.84	
8/11/2011	0.15	5.29	3.82	0.86	1.81	0.22	1.43	0.30	0.63	0.49	0.10	0.90	0.11		0.01	1.14	0.04	1.20	1.88	67.00	1.53	3.29	
6/02/2012	0.16	3.66	1.77	2.18	1.64	0.17	0.67	0.44	0.59	0.63	0.05	0.34	0.15	0.20	0.01	0.90	0.01	1.15	1.62	4.10	2.93	2.31	
8/05/2012	0.12	0.01	3.71	5.30	2.48	1.09	0.09	0.35	0.63	0.31	0.08	0.38	0.02	0.28	0.14	0.88	1.59	1.14	1.59	0.01	0.27	1.08	
6/08/2012	0.14	3.12	2.72	1.67	1.06	0.12	0.54	0.67	0.40	0.74	0.17	0.46	0.12	0.37	0.05	0.87	0.05	1.16	0.88	1.55	0.05	0.12	
13/11/2012	9.42	2.97	2.64	3.06	1.38	0.09	2.32	0.88	0.37	0.60	0.21	0.36	0.17		0.01	0.84	0.05	1.16	0.91	1.29	1.64	0.45	
13/02/2013	0.50	3.97	2.01	1.01	1.24	0.09	0.69	1.65	0.43	1.12	0.03	0.31	0.08	0.30	0.01	0.94	0.01	1.46	2.37	0.88	1.59	1.96	
14/05/2013	0.09	2.74	2.60	2.65	0.94	0.08	0.65	1.14	0.80	0.43	0.09	0.43	0.06	0.17	0.01	0.85	0.01	1.45	1.53	0.37	0.41	1.64	
6/08/2013	0.52	3.52	2.99	4.07	1.41	0.10	0.74	0.96	0.85	0.69	0.03	0.45	0.08	0.23	0.01	0.98	0.01	1.76	2.44	0.07	0.27	0.17	
12/11/2013	0.77	3.94	3.15	6.06	1.41	0.14	0.94		0.99	0.59	0.08	0.41	0.30		0.02	1.05	0.02	2.02	1.29		1.00	5.70	
11/02/2014	1.04	3.44	2.99	20.00	1.14	0.16	0.01		0.39						0.01	0.98	0.05	1.88	1.48		0.74		
13/05/2014	1.06	3.62	2.41	9.38	0.99	0.06	0.40		0.48	2.99		0.33			0.01	0.94	0.01	1.89	1.19	0.41	0.43	0.72	
12/08/2014	0.63	4.05	2.75	14.00	1.32	0.10	0.62		0.52			0.19	0.10		0.01	1.03	0.01	2.19	0.59		0.12		
10/11/2014	0.36	3.08	2.47	1.85	1.03	0.12	0.45		0.52	1.54		0.48	0.06		0.01	0.92	0.10	2.10	0.51		0.44		
9/02/2015	0.03	3.49	2.92	1.75	1.18	0.13	0.51	1.30	0.56	0.95	0.08	0.22	0.08	0.28	0.01	0.97	0.03	2.14	1.93	1.71	2.02	0.32	
11/05/2015	0.07	4.13	2.96	1.25	1.09	0.14	0.62	1.08	0.96	1.82	0.11	0.22	0.14	0.22	0.01	0.94	0.04	2.56	1.59	0.15	0.18	0.51	
11/08/2015	0.11	3.19	2.64	4.06	1.04	0.13	0.69	1.66	2.49	1.84	0.08	0.51	0.13		0.01	0.85	0.03	2.26	0.15	0.60	0.11	0.66	
10/11/2015	0.19	3.80	2.96	2.73	1.37	0.13	0.36	0.91	0.35	0.69	0.07	1.19	0.07	0.27	0.01	0.69	0.08	2.14	0.93	0.64	0.36	0.65	
8/02/2016	0.14	4.36	2.81	5.82	1.23	0.18	0.59	0.61	0.14	1.48	0.13	0.27	0.14	0.26	0.01	0.86	0.06	2.60	1.34	1.16	0.54	0.71	
9/05/2016	0.09	3.32	3.02	5.66	1.64	0.14	0.51	1.64	0.46	0.92	0.10	0.12	0.14		0.01	0.47	0.09	2.55	1.38	0.77	0.64	0.82	
9/08/2016																							
7/11/2016																							
7/02/2017																							
8/05/2017	0.05	3.51	2.14	3.04	1.10	0.10	0.49	0.35	NT	0.75	0.15	0.13	0.14	0.26	0.01	0.72	0.05	2.15	1.31	0.19	0.15	0.37	
8/08/2017																							
7/11/2017																							



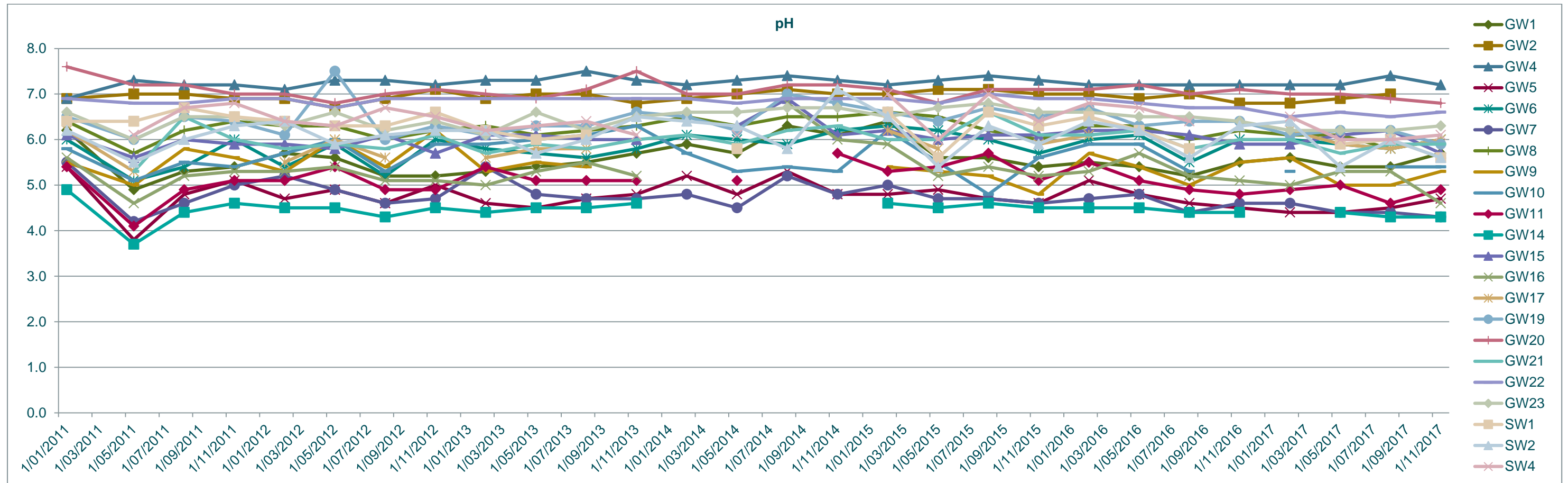
Ni	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4	
31/01/2011	0.010	0.010	0.010	0.010	0.050	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.040	0.010	0.010		0.010	0.010	0.010	0.010		
10/05/2011	0.010	0.010	0.010	0.010	0.030	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
9/08/2011	0.010	0.010	0.010	0.010	0.080	0.010	0.030	0.010	0.010	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010	0.020	0.010	0.010	
8/11/2011	0.010	0.030	0.010	0.010	0.050	0.010	0.050	0.010	0.010	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010	0.040	0.010	0.010	
6/02/2012	0.010	0.030	0.010	0.010	0.080	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
8/05/2012	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
6/08/2012	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
13/11/2012	0.250	0.010	0.010	0.010	0.040	0.010	0.110	0.010	0.010	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
13/02/2013	0.010	0.010	0.010	0.010	0.030	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
14/05/2013	0.010	0.010	0.010	0.010	0.020	0.010	0.030	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
6/08/2013	0.010	0.010	0.010	0.010	0.040	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
12/11/2013	0.010	0.020	0.010	0.020	0.040	0.010	0.040		0.040	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010		0.010	0.010	
11/02/2014	0.010	0.010	0.010	0.060	0.020	0.020	0.020		0.010						0.010	0.010	0.010	0.010	0.010		0.010		
13/05/2014	0.010	0.010	0.010	0.030	0.020	0.010	0.010		0.010	0.030		0.010			0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
12/08/2014	0.010	0.020	0.010	0.050	0.030	0.010	0.010		0.010			0.010	0.010		0.010	0.010	0.010	0.010	0.010		0.010		
10/11/2014	0.010	0.010	0.010	0.010	0.020	0.010	0.010		0.010	0.010		0.010	0.010		0.010	0.010	0.010	0.010	0.010		0.010		
9/02/2015	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
11/05/2015	0.001	0.019	0.007	0.007	0.042	0.012	0.025	0.004	0.006	0.006	0.005	0.009	0.004	0.007	0.001	0.001	0.002	0.003	0.001	0.001	0.001	0.001	
11/08/2015	0.001	0.020	0.005	0.018	0.027	0.012	0.018	0.006	0.053	0.004	0.005	0.011	0.003		0.001	0.002	0.001	0.003	0.002	0.001	0.001	0.001	
10/11/2015	0.004	0.013	0.001	0.012	0.042	0.009	0.011	0.008	0.006	0.005	0.002	0.015	0.002	0.007	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.002	
8/02/2016	0.002	0.033	0.005	0.025	0.061	0.019	0.032	0.003	0.014	0.012	0.004	0.012	0.005	0.005	0.001	0.001	0.002	0.002	0.001	0.003	0.001	0.001	
9/05/2016	0.002	0.015	0.011	0.020	0.111	0.010	0.015	0.006	0.006	0.005	0.003	0.009	0.001		0.003	0.001	0.004	0.002	0.001	0.001	0.001	0.001	
9/08/2016																							
7/11/2016																							
7/02/2017																							
8/05/2017	0.001	0.012	0.009	0.012	0.029	0.008	0.017	0.001		0.004	0.003	0.010	0.002	0.005	0.001	0.001	0.001	0.004	0.002	0.001	0.001	0.001	
8/08/2017																							
7/11/2017																							



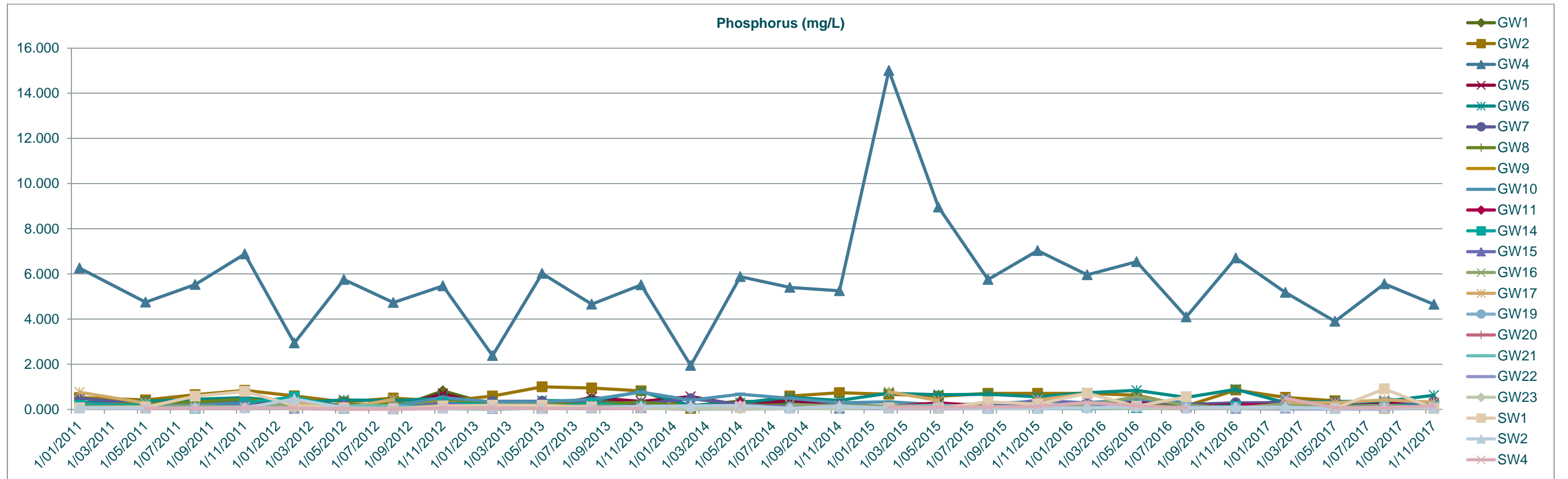
Total Nitrogen	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	0.33	1.51	2.49	0.25	1.32	2.19	0.72	0.36	1.40	1.09	0.54	0.65	0.53	1.09	0.37	0.57		0.22	0.08	0.82	0.95	
10/05/2011	0.22	1.14	1.90	0.68	1.59	0.81	1.14	0.96	1.07	1.67	0.76	0.58	0.75	1.22	0.53	0.72	0.15	0.17	0.17	0.94	0.38	0.37
9/08/2011	0.17	0.95	2.97	0.46	1.59	1.46	1.17	0.92	2.28	0.77	0.62	0.38	0.43		0.54	0.86	0.13	0.18	0.16	9.98	0.71	0.44
8/11/2011	0.19	0.78	2.80	0.39	1.08	1.31	1.35	0.19	2.81	0.94	0.84	0.23	0.31		0.51	0.16	0.06	0.29	0.18	11.00	0.77	0.81
6/02/2012	0.18	1.24	4.42	0.36	2.21	2.13	0.86	0.33	2.16	0.99	0.72	0.48	1.34	2.14	0.50	0.14	0.11	0.19	0.09	5.12	1.19	0.67
8/05/2012	0.28	0.77	3.20	0.37	1.55	0.44	0.76	0.56	0.17	0.83	0.71	0.26	0.16	1.97	0.51	0.08	0.11	0.27	0.16	0.49	0.75	0.38
6/08/2012	0.10	0.64	1.84	0.43	1.43	0.42	0.63	0.39	0.75	0.60	0.65	0.54	0.50	2.34	0.47	0.23	0.07	0.50	0.12	0.36	0.31	0.24
13/11/2012	0.53	0.85	2.40	0.72	1.44	3.30	1.47	0.92	1.94	3.06	0.75	0.82	0.98		0.48	0.28	0.05	0.55	0.07	1.18	0.80	0.40
13/02/2013	0.63	1.10	2.89	0.32	1.44	3.07	3.08	0.80	1.90	0.44	1.13	0.58	3.18	2.11	0.39	0.15	0.05	0.76	0.05	1.79	1.02	0.65
14/05/2013	0.38	1.85	1.81	0.51	1.39	1.92	1.27	0.59	2.88	0.37	0.73	0.46	2.04	2.10	0.42	0.56	0.09	0.93	0.16	1.08	0.22	0.36
6/08/2013	0.56	1.19	1.54	0.61	1.05	1.04	1.02	0.49	2.71	0.49	0.74	0.42	0.77	1.99	0.49	0.32	0.08	0.76	0.10	0.54	0.78	0.40
12/11/2013	0.60	1.55	2.22	0.74	1.31	1.07	1.72		4.37	0.61	0.95	1.48	1.72		0.51	0.38	0.15	0.58	0.09		1.23	0.91
11/02/2014	0.74	1.63	1.99	0.94	1.04	0.81	1.34		2.29						0.69	0.52	0.21	0.79	0.27		2.67	
13/05/2014	1.82	1.22	1.95	1.05	0.93	0.51	0.88		3.43	2.02		4.18			0.58	0.68	0.12	0.57	0.10	0.72	1.64	1.97
12/08/2014	0.55	1.29	1.97	0.87	1.15	0.81	0.56		3.80			1.12	5.49		0.42	0.49	0.05	0.67	0.06		0.43	
10/11/2014	0.82	1.40	1.97	0.84	1.36	1.31	1.18		4.19	1.10		0.70	3.38		0.42	0.35	0.19	0.70	0.09		1.23	
9/02/2015	0.47	5.77	46.60	1.06	6.57	1.58	0.92	1.00	2.43	1.01	1.35	1.52	4.98	2.26	0.37	0.26	0.23	0.75	0.80	1.33	1.45	0.94
11/05/2015	0.36	1.30	9.32	1.27	1.93	1.23	0.79	0.74	1.71	0.96	1.20	0.48	2.31	1.72	0.40	0.07	0.08	0.74	0.08	0.23	0.44	0.84
11/08/2015	0.15	1.07	6.61	1.21	1.42	1.07	0.85	1.09	1.64	1.28	0.79	0.37	1.35		0.45	0.13	0.07	1.05	0.18	1.35	0.28	0.96
10/11/2015	0.78	1.24	2.80	1.75	1.25	1.17	1.18	0.60	2.00	0.87	1.63	6.43	5.17	1.70	0.44	0.15	0.05	0.85	0.09	1.49	0.53	0.76
8/02/2016	0.49	1.20	6.90	1.29	1.41	1.79	1.63	0.64	2.18	1.03	1.71	1.45	4.44	1.48	0.54	0.09	0.07	0.77	0.09	4.07	0.66	2.18
9/05/2016	0.34	1.03	14.99	1.13	1.62	1.12	0.72	0.83	2.88	0.36	0.82	0.58	4.05		0.52	0.31	0.08	0.79	0.06	0.68	1.10	1.29
9/08/2016	0.15	0.79	5.99	0.70	0.67	1.46	0.88	0.47	1.49	0.82	1.57	0.44	4.27	2.38	0.57	0.26	0.11	0.68	0.09	2.89	0.51	0.48
7/11/2016	0.11	0.99	2.26	0.74	1.00	1.56	1.20	0.48		1.14	0.99	0.39	0.80		0.45	0.27	0.05	0.55	0.07		0.94	
7/02/2017	0.35	1.01	3.40	1.04	1.14	1.47	1.13	0.37	3.12	1.36		0.78	3.06	1.54	0.44	0.17	0.34	0.46	0.08		1.16	2.80
8/05/2017	0.53	0.92	4.32	4.12	2.47	1.05	0.70	0.68		0.65	3.59	0.66	2.29	1.44	0.38	0.12	0.08	0.49	0.09	0.36	0.38	0.66
8/08/2017	0.22	0.65	2.38	1.87	1.31	0.71	0.94	0.96	2.78	0.60	1.24	0.56	1.39	1.78	0.49	0.25	0.10	0.42	0.08	4.64	0.54	0.53
7/11/2017	1.31		3.43	1.13	1.46	1.45	2.09	0.57	2.44	1.40	1.01	1.07	2.68	1.25	0.70	0.09	0.27	0.51	0.13	0.40	0.71	0.74



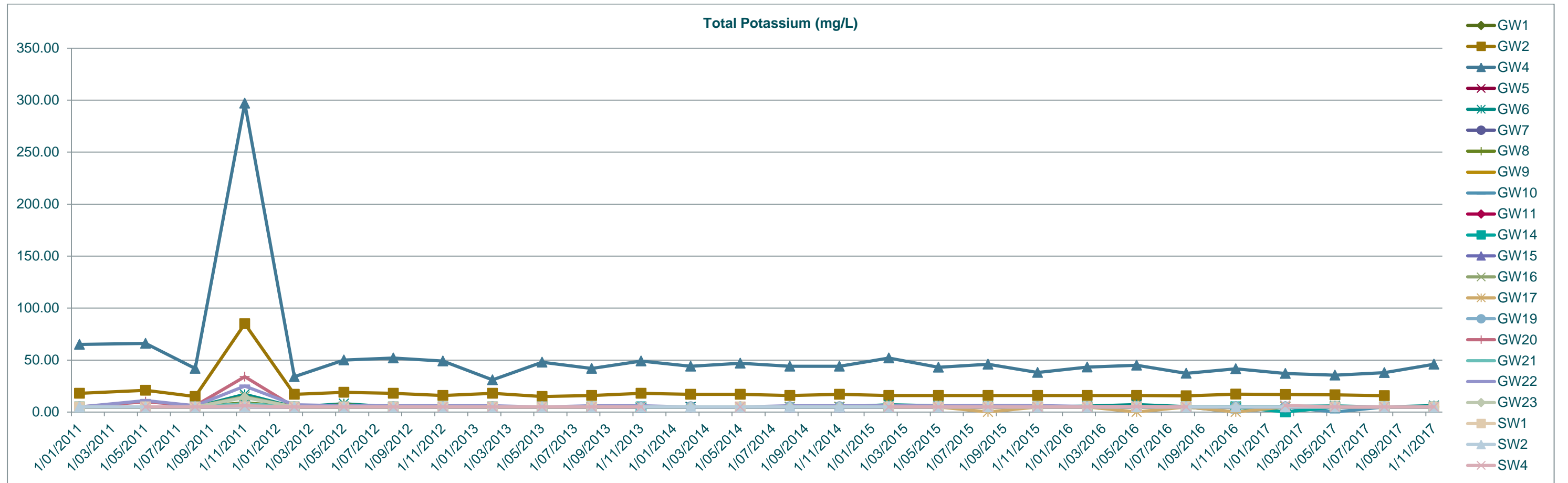
pH	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	6.2	6.9	6.9	5.4	6.0	5.5	6.4	5.5	5.8	5.4	4.9	6.1	5.6	6.2	6.5	7.6		6.9	6.6	6.4	6.2	
10/05/2011	4.9	7.0	7.3	3.8	5.1	4.2	5.7	5.0	5.1	4.1	3.7	5.6	4.6	5.3	6.0	7.2	5.3	6.8	6.0	6.4	5.5	6.1
9/08/2011	5.3	7.0	7.2	4.8	5.4	4.6	6.2	5.8	5.5	4.9	4.4	6.0	5.2		6.5	7.2	6.5	6.8	6.5	6.7	6.0	6.7
8/11/2011	5.4	6.9	7.2	5.1	6.0	5.0	6.4	5.6	5.4	5.1	4.6	5.9	5.3		6.4	7.0	6.0	6.9	6.5	6.5	6.3	6.8
6/02/2012	5.7	6.9	7.1	4.7	5.4	5.2	6.3	5.3	5.7	5.1	4.5	5.9	5.3	5.5	6.1	7.0	5.8	6.9	6.3	6.4	6.4	6.4
8/05/2012	5.6	6.7	7.3	4.9	5.9	4.9	6.3	6.0	6.0	5.4	4.5	5.8	5.4	6.0	7.5	6.8	5.9	6.7	6.6	6.3	5.9	6.3
6/08/2012	5.2	6.9	7.3	4.6	5.2	4.6	6.0	5.4	5.3	4.9	4.3	6.1	5.1	5.6	6.0	7.0	5.8	6.9	6.2	6.3	6.1	6.7
13/11/2012	5.2	7.1	7.2	5.0	6.0	4.7	6.2	6.2	5.9	4.9	4.5	5.7	5.1		6.3	7.1	6.1	6.9	6.4	6.6	6.2	6.5
13/02/2013	5.3	6.9	7.3	4.6	5.8	5.4	6.3	5.3	5.9	5.4	4.4	6.1	5.0	5.6	6.1	7.0	5.7	6.9	6.1	6.2	6.2	6.2
14/05/2013	5.4	7.0	7.3	4.5	5.7	4.8	6.1	5.5	6.0	5.1	4.5	6.1	5.3	5.8	6.3	6.9	5.9	6.9	6.6	6.0	5.7	6.3
6/08/2013	5.5	7.0	7.5	4.7	5.6	4.7	6.2	5.4	6.1	5.1	4.5	6.0	5.5	5.8	6.3	7.1	5.8	6.9	6.2	6.1	6.0	6.4
12/11/2013	5.7	6.8	7.3	4.8	5.8	4.7	6.3		6.3	5.1	4.6	6.0	5.2		6.6	7.5	6.0	6.9	6.5		6.5	6.1
11/02/2014	5.9	6.9	7.2	5.2	6.1	4.8	6.5		5.7						6.5	7.0	6.1	6.9	6.6		6.4	
13/05/2014	5.7	7.0	7.3	4.8	6.0	4.5	6.3		5.3	5.1		6.3			6.2	7.0	5.9	6.8	6.6	5.8	6.3	6.1
12/08/2014	6.3	7.1	7.4	5.3	5.9	5.2	6.5		5.4			6.9	6.8		7.0	7.2	6.2	6.9	6.7		5.8	
10/11/2014	6.1	7.0	7.3	4.8	6.2	4.8	6.5		5.3	5.7		6.1	6.0		6.8	7.2	6.3	6.9	6.7		7.1	
9/02/2015	6.4	7.0	7.2	4.8	6.3	5.0	6.6	5.4	6.2	5.3	4.6	6.2	5.9	6.2	6.6	7.1	6.0	6.9	6.5	6.6	6.5	7.0
11/05/2015	5.6	7.1	7.3	4.9	6.2	4.7	6.5	5.3	5.5	5.4	4.5	6.0	5.2	5.8	6.4	6.8	6.0	6.8	6.7	5.6	5.4	6.0
11/08/2015	5.6	7.1	7.4	4.7	6.0	4.7	6.2	5.2	4.8	5.7	4.6	6.1	5.4		6.7	7.1	6.6	7.0	6.8	6.6	6.3	7.0
10/11/2015	5.4	7.0	7.3	4.6	5.7	4.6	6.0	4.8	5.6	5.1	4.5	6.1	5.2	5.9	6.5	7.1	6.1	6.9	6.6	6.3	5.9	6.4
8/02/2016	5.5	7.0	7.2	5.1	6.0	4.7	6.3	5.7	5.9	5.5	4.5	6.2	5.3	6.1	6.7	7.1	6.1	6.9	6.6	6.5	6.4	6.8
9/05/2016	5.4	6.9	7.2	4.8	6.1	4.8	6.3	5.4	5.9	5.1	4.5	6.2	5.7		6.3	7.2	6.2	6.8	6.5	6.2	6.2	6.7
9/08/2016	5.2	7.0	7.2	4.6	5.5	4.4	6.0	5.0	5.3	4.9	4.4	6.1	5.2	5.8	6.4	7.0	5.8	6.7	6.5	5.8	5.6	6.4
7/11/2016	5.5	6.8	7.2	4.5	6.0	4.6	6.2	5.5		4.8	4.4	5.9	5.1		6.4	7.1	6.0	6.7	6.4		6.3	
7/02/2017	5.6	6.8	7.2	4.4	6.0	4.6	6.1	5.6	5.3	4.9		5.9	5.0	6.2	6.1	7.0	6.0	6.5	6.2		6.4	6.5
8/05/2017	5.4	6.9	7.2	4.4	5.9	4.4	6.1	5.0		5.0	4.4	6.1	5.3	5.9	6.2	7.0	5.7	6.6	6.2	5.9	5.4	6.0
8/08/2017	5.4	7.0	7.4	4.5	5.8	4.4	5.8	5.0	5.4	4.6	4.3	6.2	5.3	5.8	6.2	6.9	5.9	6.5	6.2	6.0	6.0	6.0
7/11/2017	5.7		7.2	4.7	6.0	4.3	6.0	5.3	5.4	4.9	4.3	5.7	4.6	6.0	5.9	6.8	5.9	6.6	6.3	5.6	5.6	6.1



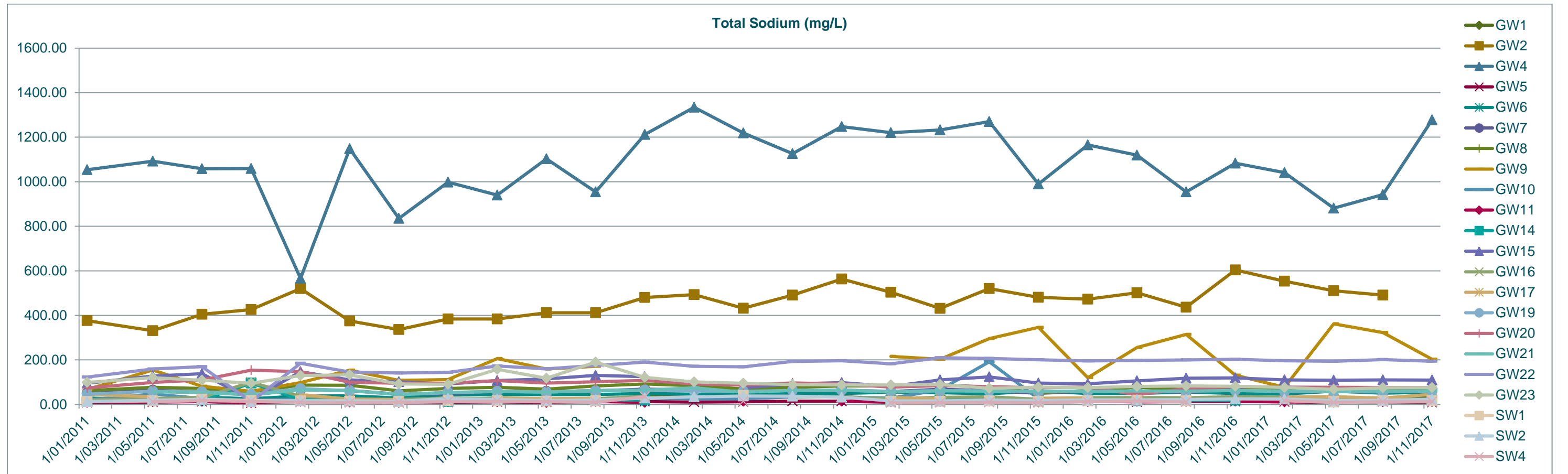
Phosphorus	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	0.100	0.520	6.260	0.230	0.300	0.490	0.190	0.230	0.240	0.080	0.180	0.070	0.130	0.760	0.070	0.050		0.050	0.050	0.070	0.080	
10/05/2011	0.050	0.420	4.750	0.260	0.360	0.220	0.260	0.190	0.170	0.110	0.200	0.140	0.120	0.280	0.060	0.050	0.050	0.050	0.060	0.100	0.050	0.050
9/08/2011	0.060	0.650	5.530	0.160	0.450	0.290	0.320	0.190	0.180	0.050	0.050	0.080	0.140		0.060	0.050	0.060	0.050	0.050	0.580	0.070	0.050
8/11/2011	0.100	0.840	6.880	0.200	0.520	0.330	0.460	0.120	0.280	0.190	0.280	0.220	0.120		0.060	0.030	0.120	0.040	0.050	0.800	0.070	0.080
6/02/2012	0.600	0.600	2.940	0.100	0.310	0.420	0.200	0.110	0.430	0.510	0.550	0.050	0.220	0.350	0.050	0.030	0.080	0.030	0.040	0.170	0.460	0.060
8/05/2012	0.110	0.330	5.750	0.120	0.420	0.160	0.210	0.070	0.130	0.040	0.050	0.180	0.080	0.070	0.070	0.020	0.160	0.040	0.050	0.070	0.070	0.040
6/08/2012	0.050	0.500	4.730	0.060	0.390	0.150	0.260	0.180	0.150	0.080	0.050	0.020	0.060	0.440	0.060	0.020	0.150	0.060	0.050	0.020	0.020	0.020
13/11/2012	0.820	0.360	5.470	0.700	0.490	0.190	0.320	0.360	0.520	0.120	0.290	0.280	0.160		0.070	0.030	0.030	0.060	0.030	0.150	0.050	0.060
13/02/2013	0.200	0.590	2.380	0.100	0.100	0.360	0.360	0.100	0.340	0.060	0.190	0.040	0.100	0.200	0.060	0.020	0.020	0.030	0.040	0.180	0.060	0.060
14/05/2013	0.200	1.000	6.020	0.080	0.390	0.360	0.230	0.040	0.340	0.040	0.060	0.030	0.040	0.100	0.060	0.050	0.040	0.070	0.040	0.180	0.030	0.030
6/08/2013	0.500	0.950	4.660	0.530	0.380	0.310	0.230	0.160	0.440	0.110	0.270	0.070	0.160	0.160	0.060	0.030	0.040	0.070	0.080	0.100	0.070	0.050
12/11/2013	0.190	0.820	5.510	0.350	0.790	0.250	0.320		0.770	0.080	0.090	0.080	0.120		0.070	0.050	0.050	0.050	0.030		0.140	0.030
11/02/2014	0.160	0.040	1.940	0.570	0.170	0.470	0.120		0.410						0.060	0.020	0.020	0.020	0.030		0.160	
13/05/2014	0.370	0.090	5.880	0.190	0.290	0.240	0.190		0.670	0.290		0.170			0.070	0.090	0.060	0.020	0.030	0.100	0.170	0.170
12/08/2014	0.280	0.590	5.400	0.400	0.540	0.120	0.190		0.490			0.130	0.220		0.060	0.070	0.030	0.030	0.030		0.050	
10/11/2014	0.200	0.740	5.250	0.150	0.400	0.210	0.150		0.290	0.120		0.050	0.160		0.050	0.050	0.030	0.040	0.030		0.150	
9/02/2015	0.070	0.670	15.000	0.090	0.720	0.140	0.150	0.100	0.340	0.120	0.100	0.090	0.150	0.780	0.090	0.030	0.090	0.030	0.080	0.060	0.050	0.100
11/05/2015	0.090	0.580	8.960	0.090	0.650	0.230	0.160	0.070	0.210	0.290	0.120	0.080	0.180	0.390	0.080	0.030	0.190	0.080	0.070	0.040	0.060	0.110
11/08/2015	0.030	0.710	5.750	0.200	0.670	0.180	0.120	0.080	0.240	0.140	0.060	0.030	0.140		0.070	0.050	0.070	0.050	0.080	0.340	0.030	0.110
10/11/2015	0.150	0.710	7.030	0.110	0.560	0.120	0.130	0.050	0.370	0.110	0.050	0.430	0.050	0.420	0.080	0.040	0.030	0.040	0.080	0.230	0.040	0.130
8/02/2016	0.250	0.710	5.960	0.190	0.740	0.250	0.260	0.240	0.300	0.140	0.130	0.260	0.170	0.700	0.080	0.030	0.040	0.100	0.080	0.720	0.070	0.310
9/05/2016	0.160	0.630	6.540	0.380	0.840	0.220	0.170	0.080	0.440	0.070	0.080	0.150	0.570		0.090	0.060	0.050	0.080	0.070	0.140	0.140	0.160
9/08/2016	0.040	0.150	4.090	0.140	0.530	0.220	0.150	0.030	0.310	0.120	0.120	0.070	0.180	0.580	0.090	0.050	0.060	0.040	0.050	0.550	0.070	0.080
7/11/2016	0.060	0.860	6.700	0.170	0.890	0.290	0.190	0.080		0.210	0.140	0.050	0.060		0.080	0.040	0.030	0.030	0.040		0.100	
7/02/2017	0.110	0.530	5.180	0.360	0.300	0.300	0.180	0.060	0.570	0.200		0.060	0.250	0.310	0.080	0.030	0.060	0.020	0.060		0.100	0.490
8/05/2017	0.110	0.380	3.900	0.220	0.350	0.280	0.150	0.040		0.090	0.110	0.060	0.090	0.300	0.060	0.040	0.050	0.020	0.060	0.040	0.030	0.070
8/08/2017	0.040	0.050	5.560	0.310	0.360	0.150	0.160	0.050	0.470	0.120	0.170	0.070	0.180	0.420	0.100	0.040	0.040	0.020	0.050	0.910	0.060	0.080
7/11/2017	0.310		4.650	0.290	0.630	0.330	0.110	0.050	0.230	0.080	0.140	0.050	0.070	0.320	0.110	0.030	0.070	0.060	0.040	0.050	0.080	0.150



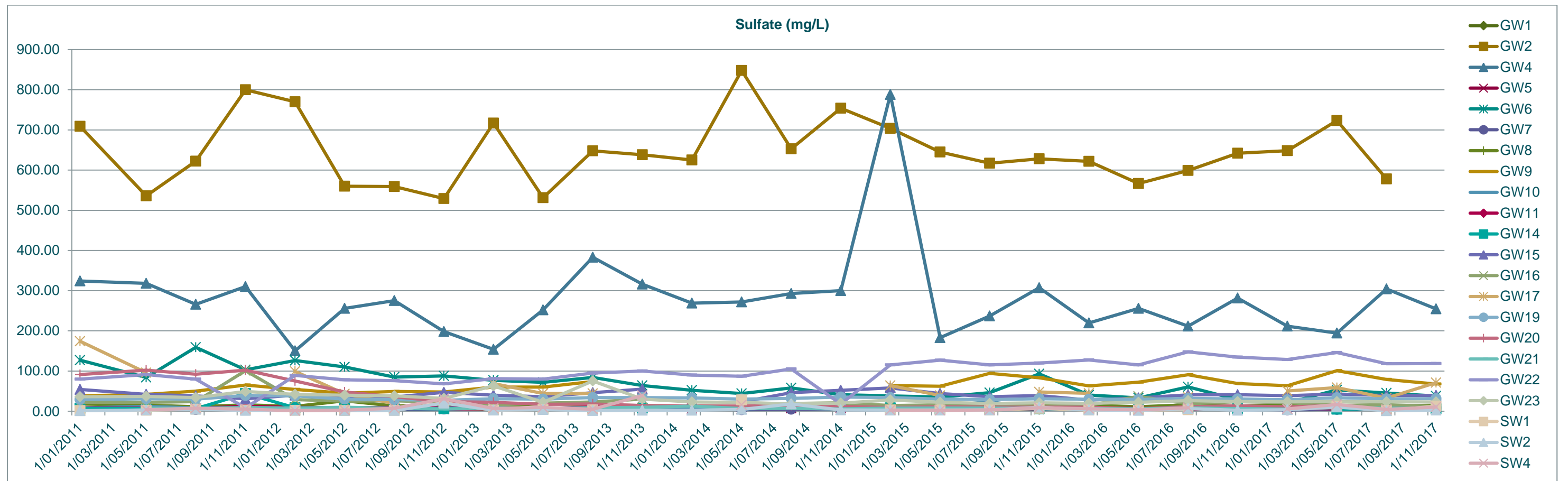
K	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	5.00	18.00	65.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	
10/05/2011	5.00	21.00	66.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	10.00	5.00	11.00	5.00	5.00	5.00	5.00
9/08/2011	5.00	15.00	42.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00		5.00	6.00	5.00	6.00	5.00	5.00	5.00	5.00
8/11/2011	5.00	85.00	297.00	5.00	17.00	7.00	9.00	7.00	7.00	5.00	8.00	5.00	15.00		6.00	34.00	8.00	25.00	14.00	5.00	5.00	6.00
6/02/2012	5.00	17.00	34.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	7.00	5.00	5.00	5.00	5.00
8/05/2012	5.00	19.00	50.00	5.00	8.00	5.00	7.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00	5.00	5.00	5.00
6/08/2012	5.00	18.00	52.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00	5.00	5.00	5.00
13/11/2012	5.00	16.00	49.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00		5.00	5.00	5.00	6.00	5.00	5.00	5.00	5.00
13/02/2013	5.00	18.00	31.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00	5.00	5.00	5.00
14/05/2013	5.00	15.00	48.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
6/08/2013	5.00	16.00	42.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00	5.00	5.00	5.00
12/11/2013	5.00	18.00	49.00	5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	5.00		5.00	5.00	5.00	6.00	5.00		5.00	5.00
11/02/2014	5.00	17.00	44.00	5.00	5.00	5.00	5.00		5.00						5.00	5.00	5.00	5.00	5.00		5.00	
13/05/2014	5.00	17.00	47.00	5.00	5.00	5.00	5.00		5.00	5.00		5.00			5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
12/08/2014	5.00	16.00	44.00	5.00	5.00	5.00	5.00		5.00			5.00	5.00		5.00	5.00	5.00	6.00	5.00		5.00	
10/11/2014	5.00	17.00	44.00	5.00	5.00	5.00	5.00		5.00	5.00		5.00	5.00		5.00	5.00	5.00	6.00	5.00		5.00	
9/02/2015	5.00	16.00	52.00	5.00	7.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00	5.00	5.00	5.00
11/05/2015	5.00	16.00	43.00	5.00	6.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00	5.00	5.00	5.00
11/08/2015	5.00	16.00	46.00	5.00	5.50	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	NT	5.00	5.00	5.00	6.40	5.00	5.00	5.00	5.00
10/11/2015	5.00	16.00	38.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.30	5.00	5.00	5.00	5.00
8/02/2016	5.00	15.96	43.26	5.00	5.79	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.38	5.00	5.00	5.00	5.00
9/05/2016	5.00	15.89	45.09	5.00	7.24	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	NT	5.00	5.00	5.00	5.30	5.00	5.00	5.00	5.48
9/08/2016	5.00	15.66	37.23	5.00	5.26	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.16	5.00	5.00	5.00	5.00
7/11/2016	5.00	17.29	41.69	5.00	5.42	5.00	5.00	5.00	NT	5.00	5.00	5.00	5.00	NT	5.00	5.00	5.00	5.00	5.00		5.00	
7/02/2017	5.00	16.85	37.10	5.00	5.36	5.00	5.00	5.00	5.00	5.00	NT	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00		5.00	6.42
8/05/2017	5.00	16.51	35.50	5.00	5.92	5.00	5.00	5.00	NT	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
8/08/2017	5.00	15.82	37.83	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
7/11/2017	5.00		46.02	5.00	6.19	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.02	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00



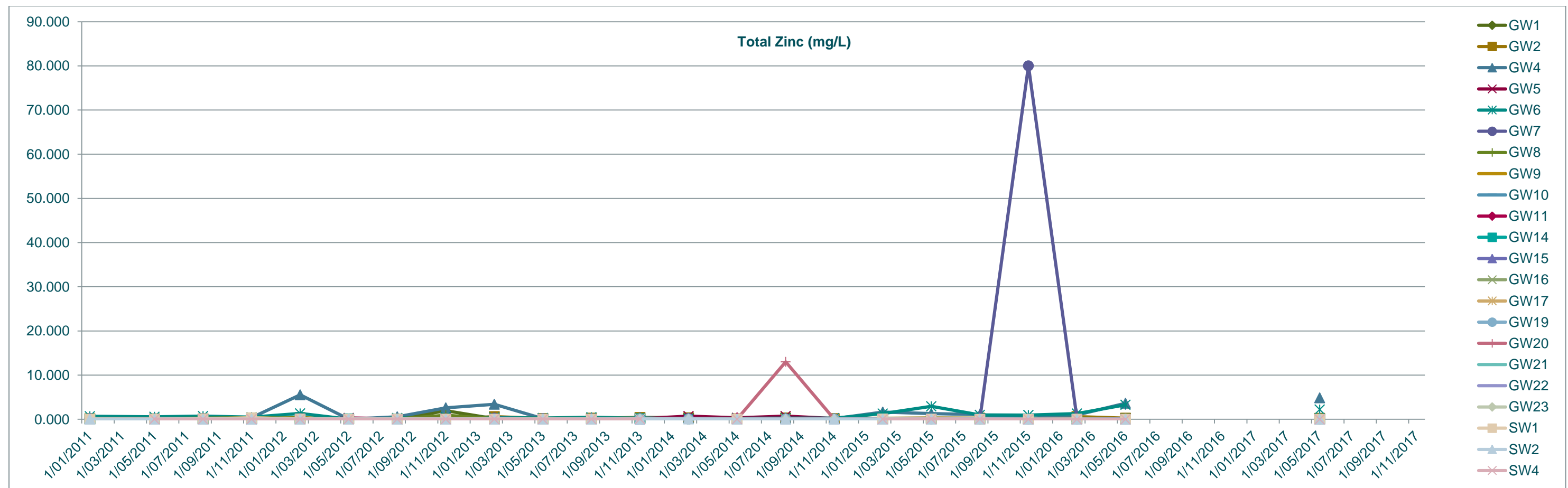
Na	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	16.00	376.00	1054.00	9.40	29.00	51.00	62.00	67.00	21.00	9.60	13.00	95.00	20.00	45.00	46.00	74.00		123.00	99.00	13.00	13.00	
10/05/2011	15.00	331.00	1092.00	11.00	20.00	64.00	77.00	155.00	47.00	12.00	19.00	128.00	27.00	35.00	60.00	99.00	57.00	159.00	120.00	16.00	19.00	12.00
9/08/2011	21.00	405.00	1058.00	13.00	33.00	55.00	72.00	82.00	27.00	14.00	20.00	138.00	32.00		57.00	110.00	54.00	170.00	109.00	24.00	23.00	18.00
8/11/2011	13.00	426.00	1059.00	7.30	26.00	44.00	57.00	59.00	19.00	8.60	96.00	22.00	100.00		45.00	154.00	43.00	12.00	95.00	18.00	13.00	14.00
6/02/2012	30.00	520.00	566.00	14.00	38.00	66.00	87.00	98.00	25.00	14.00	23.00	147.00	37.00	45.00	71.00	147.00	65.00	185.00	130.00	16.00	17.00	9.20
8/05/2012	19.00	375.00	1148.00	11.00	39.00	63.00	86.00	154.00	23.00	11.00	17.00	110.00	25.00	24.00	62.00	100.00	62.00	146.00	133.00	15.00	17.00	7.60
6/08/2012	14.00	336.00	835.00	8.70	29.00	46.00	61.00	108.00	20.00	9.60	15.00	102.00	22.00	22.00	46.00	95.00	44.00	141.00	92.00	13.00	15.00	9.30
13/11/2012	25.00	384.00	998.00	10.00	44.00	48.00	72.00	112.00	23.00	12.00	14.00	92.00	29.00		54.00	95.00	53.00	144.00	91.00	18.00	27.00	12.00
13/02/2013	16.00	384.00	940.00	12.00	45.00	59.00	77.00	206.00	29.00	12.00	19.00	107.00	27.00	30.00	59.00	107.00	58.00	173.00	158.00	17.00	22.00	14.00
14/05/2013	17.00	412.00	1103.00	11.00	44.00	59.00	69.00	159.00	21.00	8.90	19.00	115.00	24.00	26.00	56.00	96.00	55.00	160.00	118.00	15.00	18.00	12.00
6/08/2013	21.00	412.00	954.00	12.00	45.00	61.00	83.00	171.00	25.00	14.00	21.00	131.00	26.00	28.00	61.00	102.00	63.00	175.00	190.00	17.00	20.00	10.00
12/11/2013	37.00	480.00	1212.00	13.00	49.00	69.00	92.00		29.00	9.20	20.00	125.00	37.00		65.00	108.00	64.00	190.00	122.00		29.00	35.00
11/02/2014	43.00	493.00	1334.00	11.00	46.00	65.00	84.00		25.00						61.00	92.00	75.00	171.00	101.00		34.00	
13/05/2014	34.00	432.00	1219.00	12.00	49.00	62.00	70.00		25.00	15.00		76.00			59.00	87.00	55.00	169.00	95.00	40.00	38.00	14.00
12/08/2014	53.00	491.00	1126.00	15.00	48.00	63.00	77.00		34.00			92.00	35.00		63.00	97.00	63.00	193.00	89.00		37.00	
10/11/2014	37.00	563.00	1247.00	15.00	49.00	64.00	83.00		34.00	15.00		98.00	33.40		64.00	92.00	64.00	196.00	88.00		33.00	
9/02/2015	16.00	504.00	1220.00	9.90	55.00	58.00	84.00	216.00	28.00	12.00	17.00	81.00	25.00	32.00	59.00	78.00	56.00	183.00	88.00	14.00	16.00	7.10
11/05/2015	18.00	431.00	1232.00	11.00	53.00	68.00	88.00	203.00	66.00	13.00	21.00	110.00	32.00	25.00	61.00	85.00	62.00	210.00	90.00	14.00	16.00	8.00
11/08/2015	19.00	520.00	1270.00	12.00	48.00	62.00	78.00	296.00	192.00	15.00	20.00	124.00	34.00		61.00	80.00	60.00	207.00	73.00	16.00	20.00	9.60
10/11/2015	23.00	481.00	990.00	9.70	61.00	50.00	52.00	346.00	26.00	11.00	16.00	96.00	24.00	28.00	58.00	75.00	59.00	201.00	78.00	14.00	18.00	8.00
8/02/2016	29.47	472.92	1165.20	15.82	49.32	59.78	63.15	120.06	10.83	13.38	17.54	92.67	30.72	29.99	59.98	78.64	59.30	195.40	75.49	17.01	20.62	12.81
9/05/2016	22.54	501.68	1119.15	11.96	49.19	60.17	76.98	255.65	28.93	13.54	17.14	105.77	31.10		56.84	43.92	60.35	198.04	81.27	19.15	20.68	15.27
9/08/2016	21.22	436.53	954.44	12.85	56.13	55.03	66.73	314.68	15.43	13.70	18.70	117.54	30.35	28.03	60.02	70.84	59.96	200.05	83.43	16.89	22.30	11.23
7/11/2016	25.37	603.61	1082.99	12.93	49.30	67.24	80.43	131.50		14.58	19.47	119.34	35.12		63.11	79.84	62.82	203.37	81.49		25.38	
7/02/2017	33.70	553.03	1041.14	12.29	46.69	58.25	65.84	76.81	22.48	11.78		110.10	32.85	33.74	57.25	77.57	60.83	195.87	76.18		24.47	16.66
8/05/2017	15.10	510.61	880.88	10.39	59.49	60.01	72.92	362.04		10.26	12.63	109.18	23.08	34.79	57.85	77.02	58.04	193.88	67.95	12.76	17.73	9.61
8/08/2017	17.41	490.61	941.95	12.36	51.11	55.57	73.20	322.79	24.69	12.19	16.86	110.07	27.29	28.77	57.04	76.40	59.21	201.19	75.25	17.26	18.57	11.89
7/11/2017	34.62		1277.58	9.01	55.42	67.08	70.67	203.18	22.98	13.43	18.63	109.35	22.51	45.88	59.17	76.42	61.47	194.04	75.48	16.83	23.63	12.22



Sulfate	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4
31/01/2011	4.10	709.00	324.00	7.50	127.00	3.60	18.00	38.00	8.20	7.80	7.10	54.00	22.00	174.00	29.00	91.00		80.00	36.00	1.70	1.00	
10/05/2011	5.20	536.00	318.00	6.80	84.00	3.90	15.00	42.00	12.00	7.50	6.60	42.00	22.00	96.00	31.00	102.00	8.00	91.00	37.00	2.50	3.20	3.70
9/08/2011	5.40	622.00	266.00	5.20	159.00	3.90	11.00	50.00	8.10	7.20	6.20	38.00	24.00		30.00	92.00	7.60	80.00	34.00	4.80	4.70	7.40
8/11/2011	8.10	800.00	310.00	7.40	103.00	4.70	16.00	65.00	9.50	12.00	44.00	31.00	101.00		39.00	102.00	9.00	8.20	49.00	2.60	1.80	5.10
6/02/2012	9.00	770.00	150.00	7.50	126.00	4.10	12.00	54.00	5.80	9.70	8.80	40.00	29.00	99.00	38.00	75.00	7.90	89.00	42.00	1.80	2.30	1.00
8/05/2012	6.10	560.00	256.00	6.50	110.00	3.90	26.00	45.00	6.50	8.80	6.80	35.00	25.00	43.00	30.00	48.00	10.00	78.00	40.00	1.40	1.90	2.80
6/08/2012	5.40	559.00	275.00	6.30	85.00	4.00	13.00	49.00	9.50	9.60	6.60	35.00	26.00	19.00	29.00	36.00	7.40	76.00	38.00	2.10	1.80	7.20
13/11/2012	7.60	529.00	198.00	5.30	88.00	5.30	15.00	48.00	8.90	7.20	6.20	47.00	22.00		27.00	24.00	5.90	68.00	32.00	21.00	20.00	31.00
13/02/2013	5.20	717.00	154.00	6.00	77.00	8.30	12.00	60.00	9.30	6.70	8.00	40.00	16.00	69.00	31.00	22.00	7.60	81.00	63.00	2.60	2.60	6.90
14/05/2013	4.80	531.00	252.00	6.10	72.00	4.40	19.00	60.00	5.70	6.00	6.60	36.00	20.00	44.00	30.00	17.00	7.30	80.00	22.00	4.10	4.00	9.40
6/08/2013	4.50	648.00	383.00	7.40	84.00	4.30	16.00	74.00	8.20	11.00	8.30	46.00	23.00	44.00	34.00	18.00	8.80	95.00	75.00	3.20	1.50	5.00
12/11/2013	10.00	638.00	316.00	7.30	64.00	6.00	14.00		8.90	6.90	7.60	55.00	30.00		34.00	14.00	9.40	100.00	30.00		2.20	39.00
11/02/2014	13.00	625.00	269.00	6.00	52.00	5.20	13.00		8.00						33.00	13.00	13.00	90.00	23.00		2.40	
13/05/2014	11.00	848.00	272.00	5.30	44.00	3.60	12.00		5.50	8.20		23.00			30.00	13.00	6.60	87.00	22.00	28.00	4.40	16.00
12/08/2014	13.00	653.00	293.00	7.40	58.00	4.80	15.00		9.40			46.00	19.00		32.00	14.00	7.00	105.00	18.00		18.00	
10/11/2014	10.00	754.00	300.00	7.60	41.00	5.60	14.00		9.00	9.40		52.00	21.00		35.00	12.00	5.80	18.00	20.00		3.30	
9/02/2015	6.40	704.00	788.00	6.60	38.00	4.60	10.00	64.00	7.20	7.30	8.10	58.00	14.00	64.00	34.00	9.20	7.90	115.00	28.00	2.70	2.60	2.70
11/05/2015	4.90	645.00	183.00	5.50	35.00	3.30	12.00	62.00	12.00	5.80	6.00	44.00	16.00	39.00	30.00	11.00	8.00	127.00	22.00	2.60	2.70	2.00
11/08/2015	4.50	617.00	237.00	5.30	46.00	6.20	15.00	94.00	24.00	5.30	5.80	36.00	18.00		29.00	10.00	7.70	115.00	19.00	2.80	3.10	3.20
10/11/2015	5.00	628.00	307.00	4.70	93.00	6.20	17.00	83.00	5.90	6.10	6.20	39.00	12.00	48.00	31.00	10.00	6.70	120.00	21.00	6.90	9.80	8.60
8/02/2016	7.33	621.51	219.67	6.21	40.14	4.38	14.64	63.18	3.65	7.94	6.49	27.74	14.59	44.34	29.76	9.87	6.53	127.49	19.76	2.96	3.03	6.06
9/05/2016	5.80	566.50	255.94	5.95	32.91	3.40	11.39	72.08	6.61	7.02	6.00	33.11	36.72		29.32	6.03	5.62	115.32	22.23	2.62	1.89	3.04
9/08/2016	6.05	598.78	211.58	5.48	60.27	9.59	15.63	90.95	4.88	6.71	6.46	40.71	18.21	35.04	31.62	11.17	8.44	147.48	26.31	3.44	6.42	8.74
7/11/2016	7.18	641.77	281.56	6.58	29.02	5.28	12.38	68.90		7.94	6.32	41.10	23.91		30.69	13.30	6.65	134.73	24.01		2.48	
7/02/2017	9.58	648.05	211.49	6.22	21.33	3.30	16.87	63.41	6.32	7.48		38.45	21.19	50.55	28.62	10.80	5.13	128.55	23.30		3.70	5.54
8/05/2017	6.14	723.28	194.42	4.90	52.95	4.47	14.43	100.69		5.83	4.70	42.87	14.61	58.64	33.37	14.16	9.06	145.91	23.84	11.45	10.37	16.60
8/08/2017	4.78	577.91	304.27	6.49	45.30	5.84	12.79	79.16	8.84	7.47	6.61	38.94	16.21	32.79	30.41	5.26	7.67	117.97	23.24	1.55	1.09	4.33
7/11/2017	8.14		254.53	4.38	37.91	6.91	14.94	67.78	8.09	7.32	6.01	39.30	11.70	70.88	31.43	6.35	6.69	118.41	22.92	12.31	2.91	10.48



Zn	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	SW1	SW2	SW4	
31/01/2011	0.090	0.160	0.240	0.030	0.670	0.200	0.140	0.080	0.030	0.030	0.030	0.050	0.020	0.140	0.010	0.040		0.010	0.060	0.010	0.010		
10/05/2011	0.030	0.110	0.040	0.050	0.580	0.100	0.200	0.070	0.010	0.040	0.020	0.060	0.020	0.030	0.010	0.040	0.010	0.010	0.010	0.010	0.010	0.010	
9/08/2011	0.010	0.100	0.310	0.040	0.710	0.200	0.250	0.140	0.050	0.050	0.030	0.030	0.020		0.010	0.040	0.010	0.010	0.030	0.120	0.010	0.010	
8/11/2011	0.040	0.170	0.360	0.020	0.500	0.160	0.390	0.060	0.070	0.060	0.020	0.030	0.020		0.020	0.020	0.030	0.030	0.280	0.340	0.030	0.030	
6/02/2012	0.010	0.370	5.550	0.040	1.320	0.200	0.260	0.080	0.040	0.040	0.010	0.030	0.020	0.020	0.010	0.010	0.020	0.010	0.100	0.080	0.020	0.010	
8/05/2012	0.080	0.010	0.020	0.300	0.010	0.040	0.050	0.010	0.020	0.040	0.090	0.080	0.020	0.010	0.020	0.020	0.010	0.020	0.010	0.040	0.010	0.010	
6/08/2012	0.030	0.080	0.580	0.160	0.280	0.080	0.100	0.040	0.040	0.130	0.080	0.070	0.050	0.160	0.020	0.050	0.020	0.050	0.110	0.010	0.010	0.010	
13/11/2012	1.940	0.070	2.600	0.430	0.550	0.110	0.900	0.180	0.090	0.140	0.070	0.060	0.100		0.020	0.090	0.020	0.090	0.010	0.020	0.030	0.020	
13/02/2013	0.140	0.610	3.390	0.070	0.430	0.260	0.200	0.080	0.060	0.090	0.040	0.050	0.040	0.100	0.030	0.040	0.020	0.050	0.060	0.020	0.020	0.020	
14/05/2013	0.160	0.170	0.140	0.090	0.310	0.170	0.220	0.050	0.050	0.030	0.030	0.030	0.020	0.060	0.010	0.090	0.010	0.040	0.020	0.010	0.010	0.010	
6/08/2013	0.170	0.260	0.100	0.060	0.440	0.130	0.200	0.040	0.060	0.060	0.030	0.040	0.030	0.080	0.030	0.050	0.020	0.080	0.040	0.010	0.020	0.010	
12/11/2013	0.140	0.400	0.400	0.140	0.270	0.140	0.280		0.270	0.100	0.100	0.050	0.100		0.070	0.090	0.080	0.100	0.070		0.050	0.070	
11/02/2014	0.250	0.330	0.240	0.730	0.200	0.200	0.160		0.100						0.030	0.070	0.030	0.090	0.030		0.050		
13/05/2014	0.230	0.090	0.140	0.350	0.220	0.060	0.090		0.060	0.320		0.060			0.010	0.070	0.010	0.040	0.010	0.020	0.010	0.020	
12/08/2014	0.110	0.300	0.290	0.730	0.270	0.090	0.090		0.110			0.080	0.080		0.010	13.000	0.010	0.080	0.030		0.030		
10/11/2014	0.070	0.150	0.160	0.200	0.240	0.070	0.100		0.100	0.080		0.060	0.040		0.010	0.040	0.010	0.060	0.030		0.030		
9/02/2015	0.020	0.220	1.630	0.030	1.310	0.060	0.080	0.050	0.010	0.040	0.060	0.040	0.020	0.080	0.010	0.030	0.010	0.060	0.040	0.050	0.010	0.010	
11/05/2015	0.045	0.309	1.300	0.113	2.940	0.099	0.169	0.069	0.039	0.086	0.068	0.047	0.048	0.082	0.006	0.011	0.011	0.063	0.012	0.030	0.039	0.048	
11/08/2015	0.012	0.264	1.070	0.098	0.975	0.128	0.132	0.066	0.080	0.052	0.033	0.034	0.040		0.005	0.056	0.006	0.110	0.015	0.008	0.010	0.031	
10/11/2015	0.069	0.015	0.176	0.119	0.950	80.000	0.080	0.062	0.051	0.074	0.028	0.049	0.036	0.057	0.005	0.030	0.028	0.032	0.011	0.006	0.006	0.009	
8/02/2016	0.039	0.597	1.001	0.094	1.309	0.120	0.267	0.077	0.014	0.104	0.035	0.034	0.050	0.044	0.006	0.013	0.006	0.031	0.011	0.015	0.005	0.005	
9/05/2016	0.060	0.255	3.625	0.139	3.271	0.079	0.132	0.078	0.070	0.045	0.025	0.030	0.027		0.017	0.027	0.013	0.070	0.009	0.005	0.005	0.005	
9/08/2016																							
7/11/2016																							
7/02/2017																							
8/05/2017	0.116	0.210	4.855	0.097	2.216	0.083	0.146	0.021		0.055	0.042	0.026	0.038	0.047	0.008	0.033	0.017	0.036	0.018	0.005	0.006	0.006	
8/08/2017																							
7/11/2017																							



Appendix D – 2016 Meteorological Data

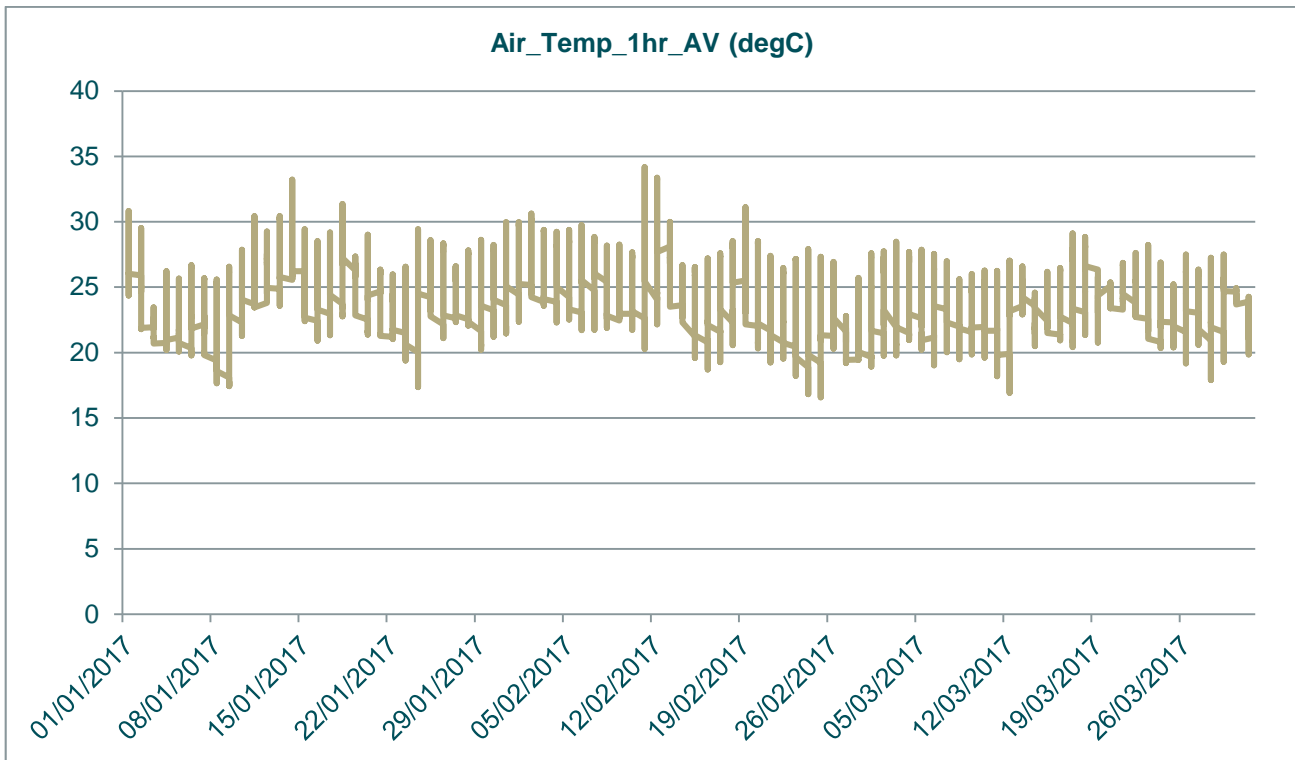


Figure D.1 – Eviron Air Temperature from January 2017 to April 2017

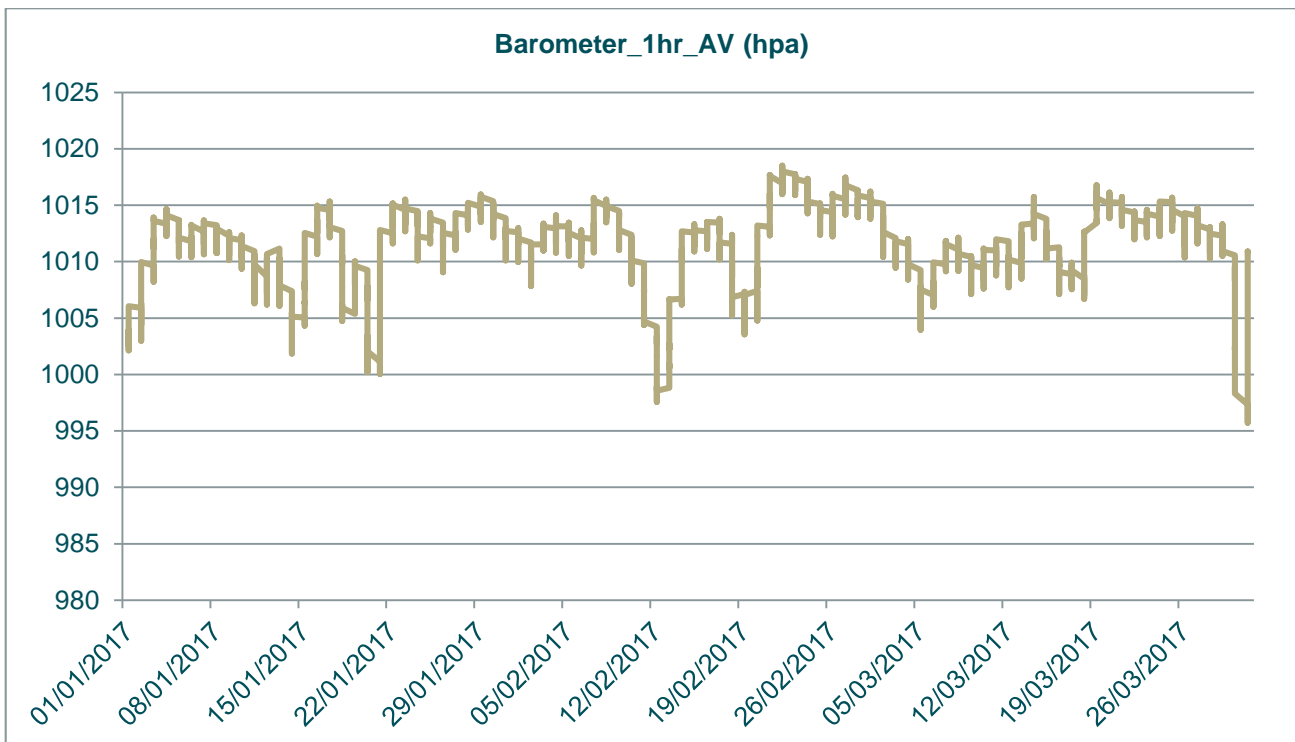


Figure D.2 – Eviron Barometer Readings from January 2017 to April 2017

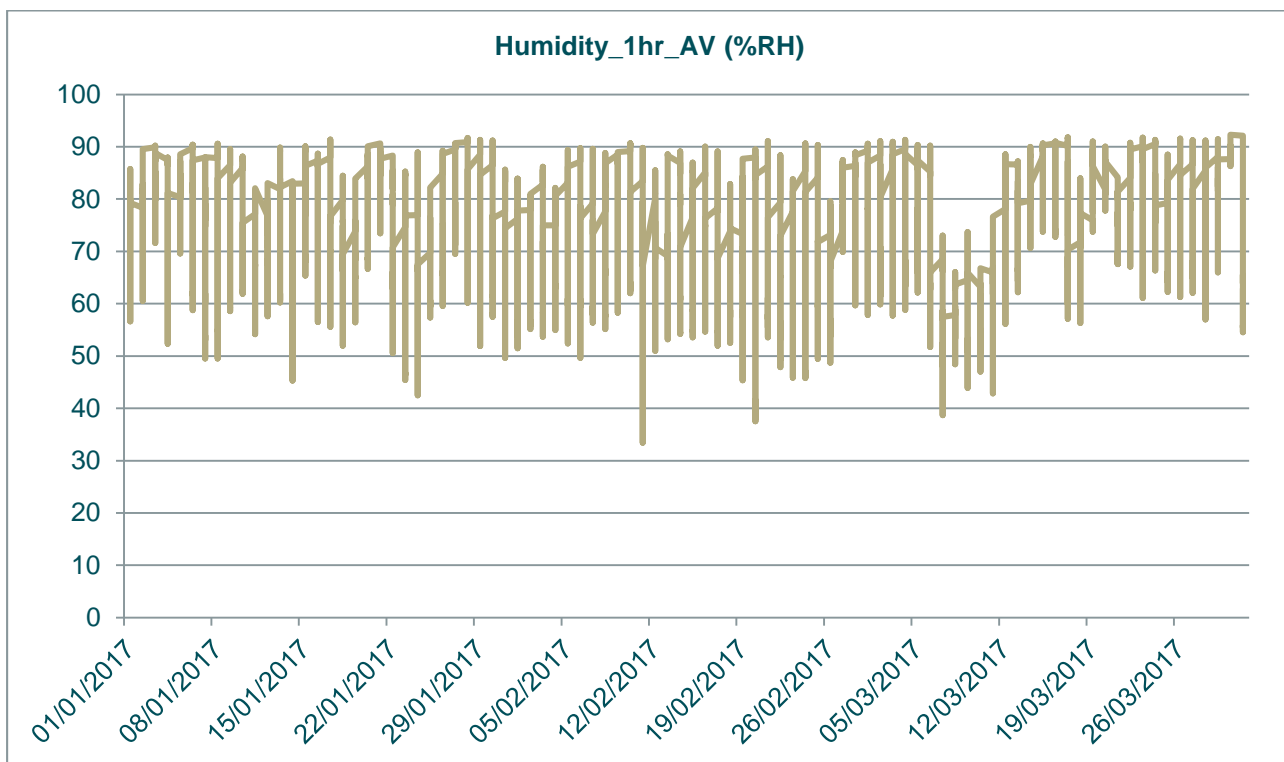


Figure D.3 – Eviron Humidity from January 2017 to April 2017

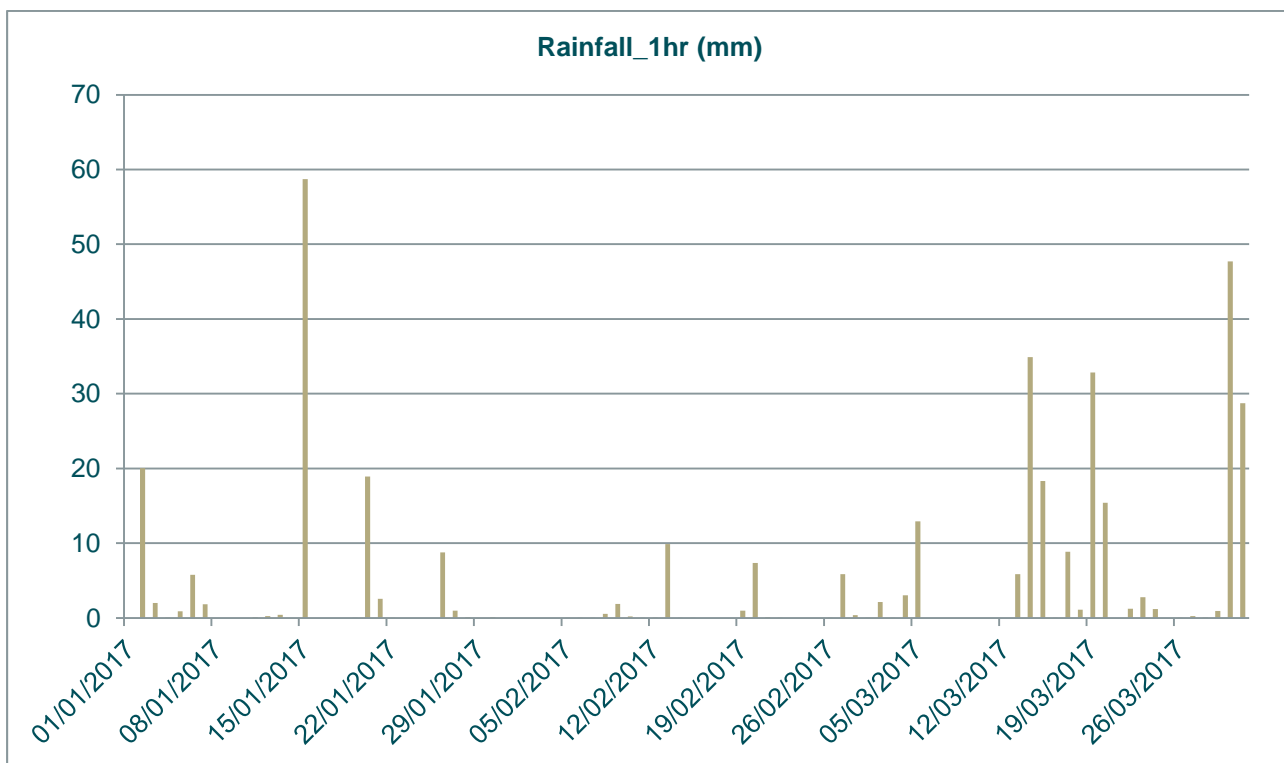


Figure D.4 – Eviron Rainfall from January 2017 to April 2017

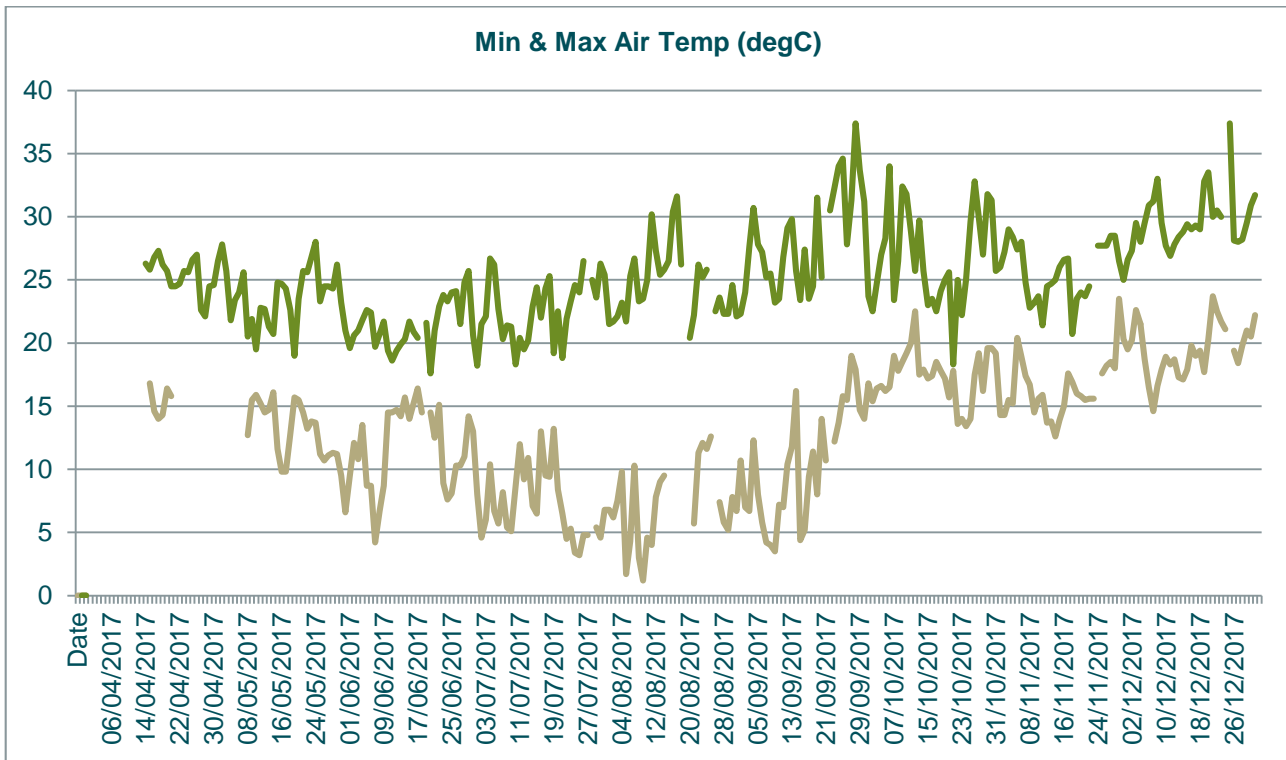


Figure D.5 – Daily maximum and minimum air temperatures from north Murwillumbah weather station April 2017 to December 2017.

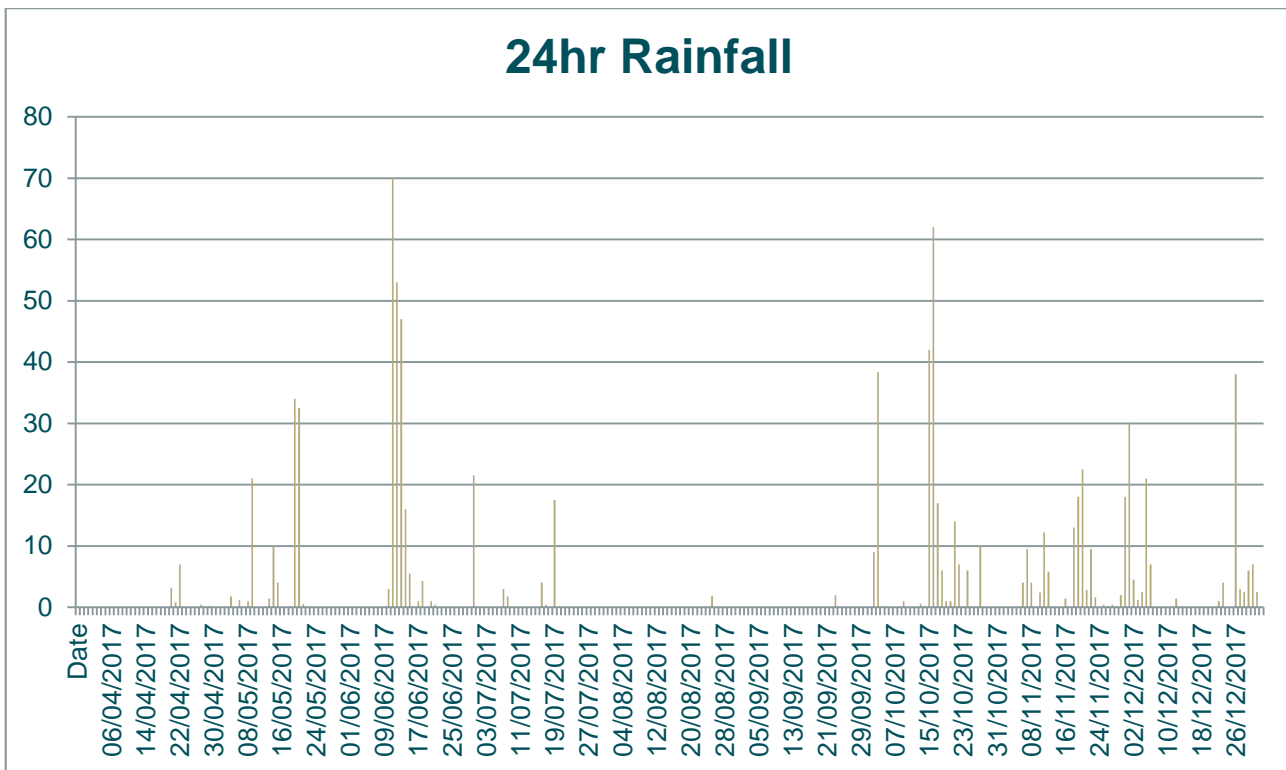


Figure D.6 – Daily rainfall data from north Murwillumbah weather station from April 2017 to December 2017.

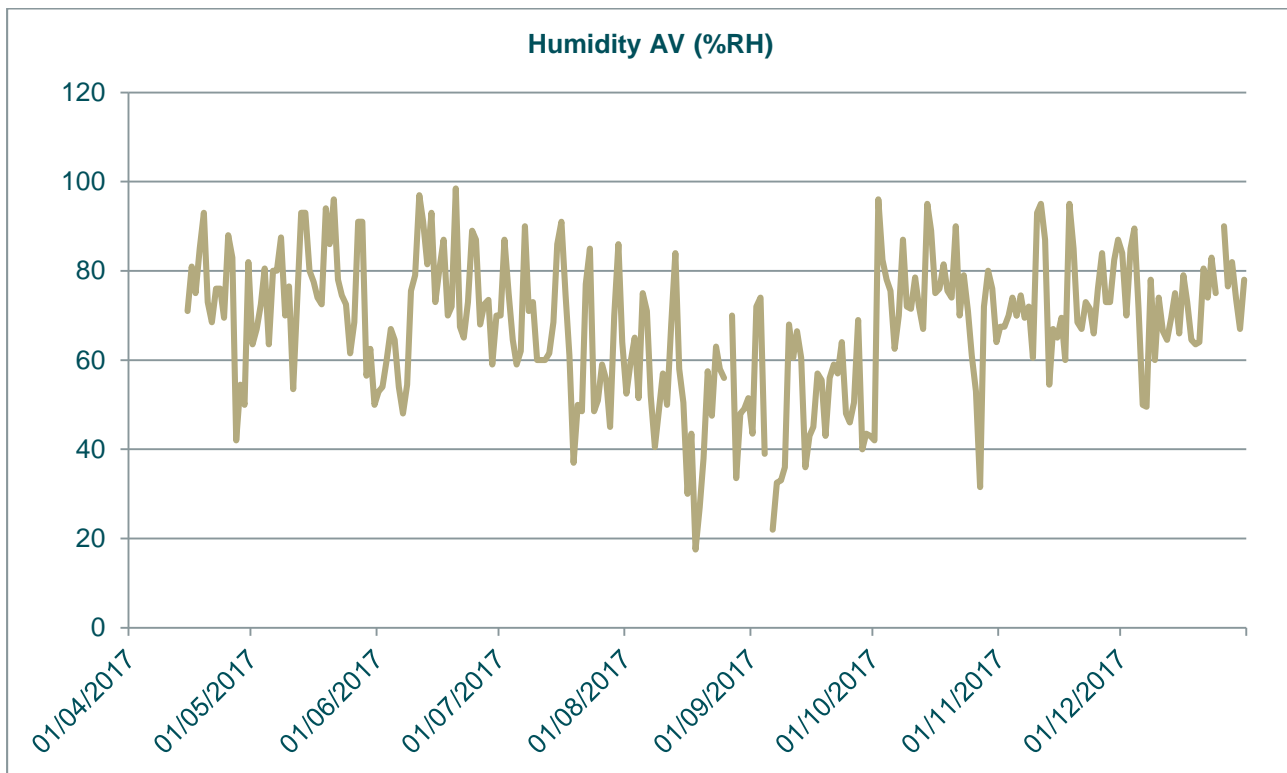


Figure D.7 – Average relative humidity at Murwillumbah weather station from April 2017 to December 2017.

Appendix E – Restoration and Biodiversity Offset Annual Progress Report.

Eviron Road Quarry & Landfill Restoration & Biodiversity Offset

Annual Progress Report 1- 2017



Table of Contents

1	Introduction	1
1.1	Background.....	1
2	Discussion of works Completed.....	1
2.1	Primary weed control	1
2.2	Out-planting	1
2.3	Follow up weed control	2
2.4	Outstanding work to be completed.....	2
3	Monitoring & adaptive management	4

List of Tables

Table 1	On-ground works and site visits undertaken 2017	3
Table 2	: Key Performance Indicators Assessment Proforma.....	7

List of Figures

Figure 1	Comparison of monitoring points at T1 and T2 Northern Riparian Corridor..	4
Figure 2	Aspects of Northern Riparian Corridor throughout 2017	5
Figure 3	Comparison of monitoring points at T1 and T2 Southern Ridge Corridor	5
Figure 4	Aspects of Southern Ridge Corridor throughout 2017	6

Appendix

Appendix 1	Record of weeds recorded and treated on site.....	8
Appendix 2	Daily Record Sheets	8

Acknowledgements

This plan has been prepared by EnviTE Environment for Tweed Shire Council

Cover Picture: view from the southern ridgeline corridor, north, across the northern riparian corridor and surrounds.

1 Introduction

1.1 Background

This report is the first of five annual reports that will document the progress of EnviTE's implementation Eviron Road Quarry and Landfill Restoration Plan V3, under contract with the Tweed Shire Council.

The implemented works concentrate on improving the quality of corridor vegetation composition and connectivity through enhancement plantings, bush regeneration and weed control through two defined corridor alignments; the Northern Riparian Corridor (NRC) and the Southern Ridgeline Corridor (SCR). The habitat improvements are intended to facilitate wildlife movement across the site and contribute to the Biodiversity Offset Strategy.

2 Discussion of works Completed

2.1 Primary weed control

The on-grounds works began on the 20th February 2017 with Primary weed control across both NRC and SRC zones. The primary weed control comprised of blanket weed control/ planting preparation and assisted regeneration methodologies. The Daily Record Sheets that detail all works can be found at Appendix 2.

Work began on the NRC where primary work continued for 8 visits / 199 hours. The weed infestations / composition across the zone varied in mosaics from in parts 100% cover of lantana to mixed low growing annuals and grasses to large woody trees and shrubs. The weeds in the lower stratum were controlled to begin with more targeted control of larger woody weeds done second. Many larger Camphor Laurels along the riparian zone were left living as the shade afforded by their canopy controls the growth of weeds in the lower stratum. These Camphor Laurels were trimmed so that they could be planted under and injected later.

Primary weed control within SRC began in early March over 5 visits / 111 hours. Weeds in the lower stratum were addressed to begin with consisting mostly of exotic grasses and annuals with woody shrubs of thick on the edges and sparse throughout. Less accommodating growing conditions of the zone allowed for a comprehensive control of the large woody exotic trees, this was completed late March.

A planting preparation weed control was completed late March early April across both zones to ensure that there was minimal competition to newly planted tube stock.

2.2 Out-planting

The planting stock was sourced from several local native nurseries. All stock was received and handled at the EnviTE nursery at Byron Bay. All 13,700 tube stock were mixed and batched at the nursery prior to being dispatched to the Eviron Quarry site. Just prior to the scheduled planting dates the North Coast area was subject to severe wet weather conditions of Cyclone Debbie that resulted in flooding of the NRC. During early stages of the project plant material was collected from the site and Swamp Hibiscus was propagated, and will be planted in the NRC zone 2018.

EnviTE staff set out the site and cached all materials for the planting and managed logistics and water during the out-planted phase. The plants were protected from herbivory by applying a deterrent, Sensory®, an egg based product with a silicate grit prior to planting. The planting was completed over a period of three days spilling over a couple of days to

complete installing jute matting and bumping out of equipment. The planted stock was monitored to ensure good establishment. Immediately after planting.

The quality of consistent proficiency demonstrated by planters was remarkably good and efficient overall. It is noted that there were a number of plants (estimated 150) that were identified as being planted poorly; either too shallow, too close together or not heeled in sufficiently. Poorly planted plants were replanted as soon as they were identified. It is possible that some mal planted plants were not identified.

2.3 Follow up weed control

Since the out-planting phase was completed follow weed control has continued through the remainder of the year. A total of 12 visits / 273 hours of weed control was completed within a 7 month span. The majority of the weed control was implemented on the NRC zone due to need as good growing conditions have seen exotic species proliferate. Weed control within the NRC zone has focused on the woody, perennial, noxious and vine weeds, given priority due to being a key threatening process. Since opening up the zone annual weeds have proliferated as a secondary weed problem. Previously dense mats of Hairy Commelina or large patches of Lantana/ Blackberry inhibited the germination and establishment of the broad range of annuals now present. It has been the strategy to avoid focusing on annuals (only to reduce immediate competition) for as the native canopy establishes in the understory, and upper strata the annual weeds will be deprived of sufficient light to continue to proliferate. This strategy has been revised in consultation with the TSC Ecologist S. Cooper late 2017 and will be discussed later here.

2.4 Outstanding work to be completed

1. Continue with follow-up weed control NRC and SRC,
2. Stem inject remaining camphor Laurels in SRC systematically so annuals do not proliferate,
3. Plant propagated Swamp Hibiscus (approximately 150) and replace dead plants with a range of suitable replacements (quantity to be determined) in areas where large gaps occur in planting areas,
4. On-site meeting with Bush Regeneration contractor and TSC Environmental Scientist and
5. Continual monitoring of the site conditions, review of strategy and adaptive management in consultation with the TSC Environmental Scientist.

Table 1 On-ground works and site visits undertaken 2017

Date	Team Hours	Task	Zone
20/02/2017	33	Primary Weed Control	NRC
21/02/2017	16	Primary Weed Control	NRC
22/02/2017	22	Primary Weed Control	NRC
28/02/2017	24	Primary Weed Control	NRC
01/03/2017	24	Primary Weed Control	NRC
02/03/2017	24	Primary Weed Control	NRC
03/03/2017	24	Primary Weed Control	NRC
06/03/2017	32	Primary Weed Control	NRC
07/03/2017	24	Primary Weed Control	SRC
08/03/2017	24	Primary Weed Control	SRC
09/03/2017	32	Primary Weed Control	SRC
20/03/2017	6.9	Primary Weed Control	SRC
22/03/2017	24	Primary Weed Control	SRC
23/03/2017	8	Primary Weed Control	NRC
01/04/2017	40	Primary Weed Control	NRC
	357.9		
07/04/2017	100	source & collect sort tube stock	Offsite
18/04/2017	291	Timberwolf planting all	SRC/ NRC
11/04/2017	25	Planting	SRC/ NRC
12/04/2017	14	Planting	SRC/ NRC
13/04/2017	16	Planting	SRC/ NRC
19/04/2017	49	Planting	SRC/ NRC
20/04/2017	31	Planting	SRC/ NRC
21/04/2017	24.5	Planting	SRC/ NRC
04/05/2017	22.5	Site inspect, plant & water	SRC/ NRC
24/08/2017	24	Additional Watering	SRC
	541		
30/05/2017	32	Follow-up weed control	NRC
08/06/2017	24	Follow-up weed control	NRC
21/06/2017	14.5	Follow-up weed control	NRC
28/06/2017	21.5	Follow-up weed control	NRC
17/07/2017	32	Follow-up weed control	SRC
18/07/2017	32	Follow-up weed control	NRC
25/07/2017	24	Follow-up weed control	SRC
01/08/2017	21.5	Follow-up weed control	NRC
25/09/2017	24	Watering (variation)	NRC/SRC
31/10/2017	16	Follow-up weed control	NRC
21/11/2017	16	Follow-up weed control	NRC
08/12/2017	16	Follow-up weed control	SRC
	273.5		

3 Monitoring & adaptive management

At the Inception of the on ground works February 2017 four photo monitoring points and four 50m² were established (2 of each in both the NRC & SRC) to allow for repeatable monitoring and evaluation of site conditions and responses to treatments over the live of the project. Baseline data and imagery was collected prior to work being undertaken and this was repeated late 2017. The Images taken at the points are included below at Figures 1 and 4. Four images taken opportunistically are include in Figures 2 and 4 to depict the key strengths and weaknesses if each zone.

The significance of the secondary annual weed growth in the NRC is highlighted in all Figure 1b and Figures 2a and 2b. It has been agreed in consultation with the TSC Environmental Scientist that a much greater focus will be given to keeping annual weeds in to a minimum. To achieve this a greater frequency or labor effort will be required in the short term. In an attempt to achieve this with in the current available budget works scheduled for later in the 5 year program will be bought forward with the view that less effort will be required to control weeds at that stage due to canopy establishment.

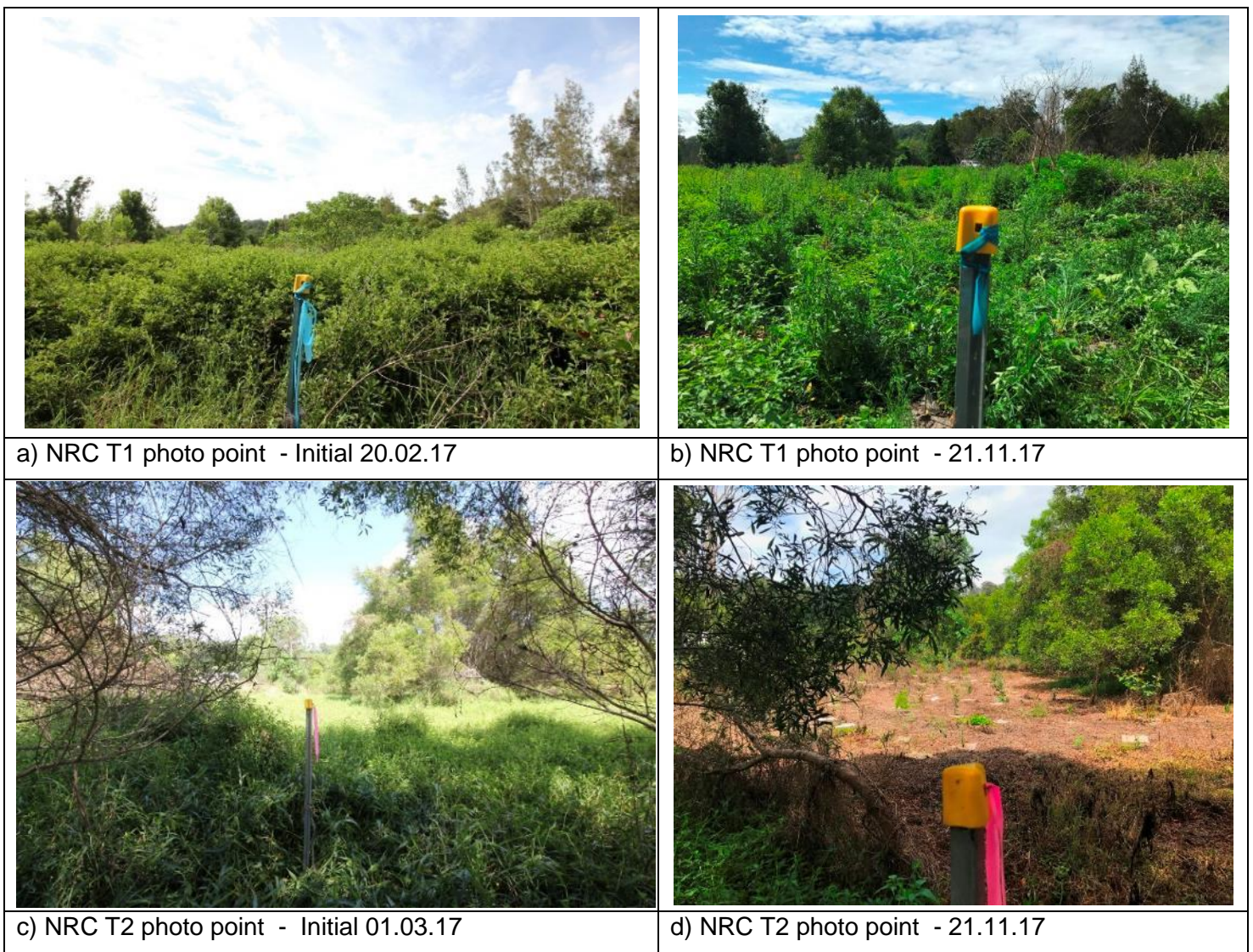


Figure 1 Comparison of monitoring points at T1 and T2 Northern Riparian Corridor

The plants were regularly monitored to ensure that they were not subjected to detrimental water stress during the establishment phase. The site received approximately 30mm of rainfall between mid May to early October 2017. Figure 4a depicts the parchedness of the site during a hot dry spring. The site was re-watered mid August afforded by flexibility within the original budget. The site was re-watered again late September afforded by a variation budget; rain broke soon after.



a) Annual weed growth in the NRC



b) Good 8 month growth for planted species NRC

Figure 2 Aspects of Northern Riparian Corridor throughout 2017



a) SRC T1 photo point - Initial 20.02.17



b) SRC T1 photo point - 05.12.17



c) SRC T2 photo point - Initial 20.02.17



d) SRC T2 photo point - 05.12.17

Figure 3 Comparison of monitoring points at T1 and T2 Southern Ridge Corridor



Figure 4 Aspects of Southern Ridge Corridor throughout 2017

It is probable that some plant mortalities of the out-planted stock were due to extended hot dry weather, however of the overall plant mortalities it is more probable that the cause of failure to thrive has been due to a combination of mal-planted, missed at the watering in stage, poor site conditions in discrete areas and suitability of plant to position etc. There was no planted species that was outstanding in failure to thrive, however groundcover species overall did struggle to establish. Across both zones natural regeneration of native groundcovers is wide spread.

Table 2 : Key Performance Indicators Assessment Proforma

KPI	Description	Target	Annual performance achieved				
			Year 1 2017	Year 2 2018	Year 3 2019	Year 4 2020	Year 5 2021
Revegetation							
Tubestock survival	Proportion of planted tubestock survived	80%	86%				
Floristic diversity and species composition	Number of surviving future tree canopy species	>5	NRC = 9				
			SRC = 8				
	Number of surviving future small trees/shrubs species	>10 in NRC >5 in SRC	NRC = 23				
			SRC = 7				
	Number of surviving future groundcover species	>2	NRC = 5				
			SRC = 3				
Structural diversity	Proportion of surviving plant which are future tree species (emergent and canopy species)	=/>50%	42%				
	Proportion of surviving plant which are future shrub species	=/>25%	34%				
	Proportion of surviving plant which are future ground cover species (concentrated along verge of drainage line)	=/>10%	24%				
Weed control							
Representation of weeds in revegetation and assisted regeneration areas	% cover of weeds in tree stratum	<1%	NRC = 10% SRC = 1 %				
	% cover of weeds in shrub stratum	<1%	NRC = 15% SRC = 1 %				
	% cover of weeds in ground stratum	<5%	NRC = 45 % SRC = 35%				
Assisted regeneration							
Recruitment of native species	Number of stems of native species within nominated assisted regeneration areas	Greater than previous year	≈ 250				

Appendix 1 Record of weeds recorded and treated on site

Species name	Common name	
<i>Ageratum houstonianum</i>	Blue Billygoat Weed	
<i>Ambrosia artemisiifolia</i>	Crofton Weed	*
<i>Aster subulatus</i>	Wild Aster	
<i>Baccharis halimifolia</i>	Groundsel Bush	
<i>Bidens pilosa</i>	Farmers Friends	
<i>Cinnamomum camphora</i>	Camphor Laurel	
<i>Commelina benghalensis</i>	Hairy Commelina	*
<i>Coynza bonariensis</i>	Fleabane	*
<i>Crassocephalum crepidioides</i>	Thick Head	*
<i>Cuphea carthagenensis</i>	Cuphea	*
<i>Desmodium uncinatum</i>	silver leaved desmodium	*
<i>Gomphocarpus fruticosus</i>	Balloon Cotton Bush	
<i>Ipomoea cairica</i>	Five-leaved Morning Glory	
<i>Lantana camara</i>	Lantana	
<i>Macroptilium atropurpureum</i>	Siratro	*
<i>Myriophyllum aquaticum</i>	Parrots Feather	
<i>Neonotonia wightii</i>	Perennial Soybean	
<i>Onopordum acanthium</i>	Scotch Thistle	*
<i>Paspalum mandiocanum</i>	Broad-leaved Paspalum	
<i>Paspalum urvillei</i>	Vasey Grass	
<i>Passiflora subpeltata</i>	White Passion Flower	*
<i>Phytolacca octandra</i>	Ink Weed	*
<i>Pinus radiata</i>	Radiata Pine	*
<i>Psidium guajva</i>	Guava	*
<i>Ricinus communis</i>	Castor Oil Plant	
<i>Rubus bellobatus</i>	Kittatinny Blackberry	
<i>Senecio madagascariensis</i>	Fireweed	
<i>Setaria sphacelata</i>	Setaria	
<i>Solanaum nigrum</i>	Blacberry Nightshade	
<i>Solanum capsicoides</i>	Devil's Apple	
<i>Solanum chrysotrichum</i>	Devil's Fig	
<i>Solanum mauritianum</i>	Wild Tobacco Bush	
<i>Solanum nigrum</i>	Blackberry Nightshade	
<i>Tagetes minuta</i>	Stinking Roger	*
<i>Triumfetta rhomboidea</i>	Chinese Burr	*
<i>Verbena bonariensis</i>	Purpletop	
* Weeds not previously recorded onsite, treated		

Appendix 2 Daily Record Sheets

Please refer to attachment scanned document [DRS's Year 1 Eviron Rd Quarry.pdf] for full Daily sheet Records.

Appendix F – Nest Box Monitoring Report.

**NEST BOX MONITORING REPORT - EVIRON ROAD
QUARRY & LANDFILL PROJECT**

TWEED SHIRE COUNCIL DESIGN UNIT

MARCH 2018

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1.0 INTRODUCTION 2

 1.1 Eviron Quarry and Landfill 2

2.0 BACKGROUND..... 2

 2.1 Likely hollow dependent fauna on site..... 2

 2.2 Nest box installation 3

 2.3 Nest box monitoring requirements..... 3

3.0 NEST BOX INSPECTION RESULTS 4

 3.1 Recommendations 4

REFERENCES 1

1.0 INTRODUCTION

1.1 Eviron Quarry and Landfill

Tweed Shire Council (TSC) has concept plan approval (Approval Reference #08_0067) under Part 3A of the *Environmental Planning and Assessment Act 1979* (EP&A Act) to establish two new quarries, three landfills and a haul road at Eviron, in the far North Coast of NSW (Eviron Rd Q&L). Project approval has also been attained for Stage 1 of the project, which involves landfilling within the existing Quirks Quarry and development of the new West Valley Quarry and associated infrastructure (Approval Reference #08_0068).

One of the Biodiversity offset conditions listed under Schedule 4 (Specific environmental conditions for West Valley Quarry), requires implementation of a Landscape Management Plan, which includes a requirement to install nest boxes within Conservation Area 1 to offset a reduction in hollow recruitment resulting from future clearing.

A nest box plan was developed for the project to guide nest box installation, monitoring and maintenance (TSC, 2016a). The proposed nest box program includes five years of maintenance and monitoring. Beyond the five year maintenance/monitoring period, management of the nest boxes will be incorporated into general site management in accordance with a site-wide Environmental Management Plan (EMP).

This report documents the first round of nest box monitoring including details on the performance of boxes and recommendations for ongoing monitoring and maintenance.

2.0 BACKGROUND

2.1 Likely hollow dependent fauna on site

As noted in the Eviron project nest box plan (TSC 2016a), based on past fauna and habitat surveys at the site, the following hollow-dependent fauna are known and/or considered likely to use hollows at the site:

- Small scansorial mammals such as *Antechinus*
- Microchiropteran bats
- Small gliding marsupials including the Feather-tail Glider (*Acrobates pygmaeus*) and Sugar Glider (*Petaurus breviceps*). Note: The Squirrel Glider (*P. norfolcensis*) is not considered to occur within the study area based on past surveys and NSW Wildlife Atlas records.
- Arboreal herpetofauna including Eulamprus skinks along with most of the hylid tree frogs known from the area
- Possums
- Medium sized parrots and lorikeets
- Smaller owls such as the Southern Boobook (*Ninox novaehollandiae*) and Barn Owl (*Tyto alba*)
- Black cockatoos and Australian King Parrot (*Alisterus scapularis*).

As a result, nest boxes were installed that catered for a range of species. Notwithstanding this, the EIS for the project (GHD, 2010) recommended nest boxes specifically target petaurid gliders.

A total of nine nest boxes were subsequently installed to address the loss of potential tree hollow resources to be impacted at the site. It is noted that no actual hollow bearing trees were proposed to be impacted by the Eviron Quarry and landfill project. It is also noted that another nest box program is being run in the same locality to mitigate the clearing of habitat trees in the adjoining Stott's Creek Resource Recovery Centre (RRC) as part of a landfill cell expansion (TSC 2016b). A total of 10 nest boxes were installed for that project. These sites are adjoining and as a result, nest boxes were installed along a connecting ridge line between the Eviron project site and the Stott's RRC site. The results of monitoring nest boxes for both projects are presented here.

2.2 Nest box installation

Nest boxes were installed by Lewis Ecological Surveys on the 29 July 2016. Boxes were installed on average about between 4 to 8 metres above the ground and attached to trees using wire covered with a protective sleeve of polyurethane tubing (to protect trees from tissue damage). The attachment wire was pleated in sections to allow for expansion with tree growth. In some instances, two boxes targeting different species (e.g. small glider and insectivorous bats) were installed on the same tree. This is consistent with approaches for other projects in the region (e.g. the Pacific Highway Upgrade, pers. comm. Lewis Ecological Surveys).

2.3 Nest box monitoring requirements

The nest box plan proposed the following monitoring requirements:

- Year 1: at the end of the first year after installation
- Year 2: during spring of the second year of installation
- Year 5: during spring of the fifth year of installation.

During monitoring of nest boxes, information on box condition and subsequent maintenance requirements, evidence of fauna occupation, and pest activity (e.g. Indian Myna's, termites, bees etc) is to be recorded. Records of fauna activity and/or occupation of boxes would involve recording species and any associated life history parameters, and evidence of fauna use such as nesting material, scats, hair/feathers etc. In the event that pest activity is precluding occupation of the box by native fauna, then the box would be modified or relocated to an appropriate site.

Maintenance of boxes, if required, would be undertaken at the time of inspection. Irreparable boxes would be replaced with a new box in the same tree or as close to the host tree as possible. Replacement of any damaged boxes would be undertaken during the same monitoring event.

3.0 NEST BOX INSPECTION RESULTS

This report documents the first round of monitoring post installation. Monitoring was completed on the 16 March 2017 by Lewis Ecological Surveys with the assistance of a Tweed Shire Council ecologist (David Hannah). Due to project delays, the boxes were not monitored until late summer/autumn 2017. Despite this, nest box inspections recorded 17 sugar gliders (*Petaurus breviceps*) occurring within a range of nest box types (see Table 1 below). Petaurid gliders was the target species for nest box installation associated with the proposal (TSC 2016a).

Five nest boxes had nesting material (eucalypt and/or eucalypt leaves and camphor leaves combined) present within boxes. Based on the type of nest construction observed, a further three species may be using boxes and includes Antechinus spp., the Feather-tail Glider and Possum (most likely Mountain Brushtail Possum based on previous site records). Three boxes were colonised by arboreal ants. Ants were not removed at this stage. As discussed by Sandpiper Ecological (2016), little is known about the potential competitive interactions between ants and native vertebrates although Dobson (2002, cited in Sandpiper Ecological 2016) reported that squirrel gliders were not deterred by the presence of ants and feathertail gliders have been observed in bat boxes containing ants. No fauna species, or evidence of fauna nesting, was observed within nest boxes with ants.

In regards to the condition and functionality of nest boxes, all boxes were in good condition and functioning as designed. Consequently, no maintenance is required on boxes at this stage.

A summary of nest box monitoring results is provided in Table 1 below.

3.1 Recommendations

The nest box plan requires monitoring in the first, second and fifth year following box installation. As a result, the next monitoring event is recommended to occur spring 2018. No maintenance of boxes is proposed as a result of this monitoring event

Table 1: Eviron and Stott's Creek RRC nest box monitoring results (#all boxes installed 29 July 2016)

Location	Id.	Box type	Height above Gnd. (m)	Aspect	Tree species	GPS coordinate	Fauna use	Box condition	Notes
Conservation Area 5 (Southern end of north valley)	Tree 1	Small Glider (silver top)	6.0	SSE	Blackbutt	23.30066, 153.50279	Nest material only (2-3mths old)	Good	
as above	Tree 1	Bat Box wedge	7.0	E	Blackbutt	23.30066, 153.50279	No evidence of use	Good	
as above	Tree 2	Small Glider (silver top)	8.0	SSE	Blackbutt	28.30062, 153.50279	Ants present in box	Good	
as above	Tree 2	Bat Box Wedge	7.0	W	Blackbutt	28.30062, 153.50279	Ants present in box	Good	
as above	Tree 3	Bat Box Wedge	7.0	SSW	Blackbutt	28.30096, 153.50299	No evidence of use	Good	
as above	Tree 3	Small Glider (silver top)	5.0	ESE	Blackbutt	28.30096, 153.50299	3 x Sugar Gliders	Good	
Conservation Area 1 (boxes along ridgeline road to Hawkins house)	Tree 4	Bat Box (HLH)	5.5	N	Brushbox	28.29826, 153.49902	No evidence of use	Good	
as above	Tree 4	Parrot (HLH)	7.0	ESE	Brushbox	28.29826, 153.49902	4 x Sugar Gliders	Good	
as above	Tree 5	Small Glider Wedge	5.0	NW	Bloodwood	28.29798, 153.49881	Ants present in box	Good	
as above	Tree 5	Parrot (HLH)	6.5	SE	Bloodwood	28.29798, 153.49881	3 x Sugar Gliders	Good	

Location	Id.	Box type	Height above Gnd. (m)	Aspect	Tree species	GPS coordinate	Fauna use	Box condition	Notes
as above	Tree 6	Large Parrot	7.0	W	Blackbutt	28.29774, 153.49855	1 x Sugar Gliders	Good	
as above	Tree 6	Small Glider wedge	8.0	S	Blackbutt	28.29774, 153.49855	No evidence of use	Good	
Stott's Landfill southern boundary road	Tree 7	Small Owl	6.0	NE	Blackbutt	28.29693, 153.49693	Nest material (2-3mths old)	Good	Possible use by antechinus / feather tail glider
Stott's Landfill southern boundary road	Tree 7	Small glider wedge	6.0	W	Blackbutt	28.29693, 153.49693	Nest material (2-3mths old)	Good	Possible use by possum / sugar glider
Stott's Landfill southern boundary road	Tree 8	Possum	6.0	N	Blackbutt	28.29698, 153.49707	2 x Sugar Gliders	Good	
Stott's Landfill southern boundary road	Tree 9	Bat box	6.0	N	Blackbutt	28.29701, 153.49719	No evidence of use	Good	
Stott's Landfill southern boundary road	Tree 10	Small Owl	8.0	NNE	Blackbutt	28.29710, 153.49731	Nest material (2-3mths old)	Good	Possible use by possum / sugar glider
Stott's Landfill southern boundary road	Tree 11	Parrot	6.0	SSE	Blackbutt	28.29671, 153.49678	Nest material (2-3mths old)	Good	Possible use by possum / sugar glider
Stott's Landfill southern boundary road	Tree 12	Possum	6.0	NNE	Blackbutt	28.29680, 153.49670	4 x Sugar Gliders	Good	

Note – Hollow Log Homes (HLH) boxes were constructed of recycled plastic and Cypress Pine (30yr structural life) with timber shavings in box. All other boxes (except silver tops) were hardwood construction (approx. 8yr structural life). Boxes referred to as ‘silver tops’ had pine lids and therefore, aluminium flashing was tech screwed to lids for weather proofing. HLH boxes were secured to trees using the HLH provided Habisure system. All other boxes were secured to trees using 8 gauge wire with protective plastic tubing (garden hose).

REFERENCES

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