ROCKINGHAM INDUSTRY ZONE

COMPLIANCE REPORT 2019 / 2020 EPBC 2010/5337

Prepared for: DevelopmentWA

Report Date: 12 October 2020

Version: 1

Report No. 2020-531



Contents

C	ontents	s		
Li	st of At	ttachr	ments	iii
D	eclarat	ion o	f Accuracy	iv
1	INT	RODU	JCTION	1
2	DES	SCRIP ⁻	TION OF ACTIVITIES	2
	2.1	Proj	ject Details	2
	2.2	Curi	rent Status	2
3	COI	MPLIA	ANCE	4
	3.1	Con	dition 1	4
	3.2	Con	idition 2	4
	3.3	Con	idition 3	4
	3.4	Con	idition 4	5
	3.5	Con	idition 5	5
	3.6	Con	idition 6	6
	3.7	Con	dition 7	6
	3.8	Con	dition 8	6
	3.9	Con	dition 9	6
	3.10	Con	dition 10 – Conservation Area	7
	3.11	Con	dition 11 – Conservation Area Management Plan	7
	3.12	Con	idition 12 – Black Cockatoo Habitat	8
	3.13	Con	dition 13 – Water Management Strategy	.10
	3.14	Con	dition 14 – Offsets Management Plan	.10
4	CON	MPLIA	ANCE WITH ENVIRONMENTAL MANAGEMENT PLANS	.12
	4.1	Initi	ial Conservation Area Management Plan	.12
	4.1.	.1	Fencing	.12
	4.1.	.2	Rubbish	.12
	4.1.	.3	Weed Control	.12
	4.1.	.4	Rehabilitation	.13
	4.1.	.5	Native Fauna Management	.13
	4.1.	.6	Pest Fauna Management	.13
	4.2	Wat	ter Management Strategy	. 14

	4.2.1	Development in the Referral Area	14
	4.2.2	Installation of Bores	14
	4.2.3	Groundwater Monitoring	14
	4.2.4	Conclusion	14
4	.3 Offs	sets Management Plan	14
	4.3.1	Offsets Packages	14
	4.3.2	TEC Re-establishment Trial	14
	4.3.3	TEC Research	16
	4.3.4	Areas of Clearing	16
	4.3.5	Conclusion	16
5	AUDIT TA	ABLE	17
ŝ	COMPLIA	ANCE STATEMENT	22
7		AVAILABILITY OF COMPLIANCE REPORT	

List of Attachments

Plates

Plate 1: Screenshot showing Reports on Website

Plate 2: Northern Area 2015

Plate 3: Rehabilitated Northern Area 2020

Plate 3: Basin 2.1, 1m from Groundwater 2020

Plate 4: TEC Trial Basin 1.1, 2m from Groundwater 2020

Appendices

Appendix 1: Approval under the EPBC Act EPBC 2010/5337

Appendix 2: Notice of Variation to Conditions 2014 (EPBC 2010/5337)

Appendix 3: Notice of Variation to Conditions 2016 (EPBC 2010/5337)

Appendix 4: Notice of Variation to Conditions December 2016 (EPBC 2010/5337)

Appendix 5: 2014 to 2020 Aerial Photography

Appendix 6: Groundwater Monitoring Report

Declaration of Accuracy

In making this declaration, I am aware that sections 490 and 491 of the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed	J.1/2	9
Full name (please print)	FRANK MAK	RA
Position (please print)	Chief Executive Officer	
Organisation (please print i	ncluding ABN/ACN if applicable)):
	Western Australian Land A	uthority (DevelopmentWA)
	ABN:34 868 192 835	ACN: 614 976 117
Date	14, 10, 2020	

1 INTRODUCTION

The Rockingham Industry Zone (RIZ) is an area zoned for industrial development adjacent to the Kwinana Industrial Area.

As a result of portions of the RIZ containing Matters of National Environmental Significance, the proposed development was referred to the Australian Government's Department of Sustainability, Environment, Water, Population and Communities (now Department of the Environment and Energy) under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The proposal was assessed as a Controlled Action (EPBC 2010/5337) and was approved on 30 November 2011 with conditions (Appendix 1).

An amendment to Condition 14 of EPBC referral 2010/5337 was requested on 18 March 2014 and approved on 19 June 2014 (Appendix 2). A second request to vary Conditions 3, 9, 10 and 12 was approved on 9 May 2016 (Appendix 3). A third request to update the timing for the vesting of the Conservation Area was approved on 13 December 2016 (Appendix 4).

Condition 3 of the EPBC approval requires DevelopmentWA to publish an annual compliance report. Specifically Condition 3 states:

Within three months of every 12-month anniversary of the commencement of the action, the person taking the action must publish a compliance report on its website and provide a copy of the compliance report to the **Department** in writing. The compliance report must address compliance with: each of the conditions of this approval; any management plans required under this approval; and whether outcomes and milestones required by these conditions and commitments made in management plans required under this approval have been met or are on track to being met. The compliance report must include any actual or potential contraventions and must consider the **Department's** Annual Compliance Report Guidelines. Documentary evidence providing proof of the date of publication must be provided to the **Department** within 7 days after the compliance report is published. All compliance reports must remain on the website for the period this approval has effect. The person taking the action may cease preparing and publishing compliance reports required by this condition with written agreement of the **Minister** to do so.

This Compliance Report has been prepared by PGV Environmental on behalf of the Western Australian Land Authority trading as DevelopmentWA in accordance with Condition 3 of the EPBC approval.

2 DESCRIPTION OF ACTIVITIES

2.1 Project Details

EPBC number: 2010/5337

Project name: Rockingham Industry Zone

Approval holder: Western Australian Land Authority (DevelopmentWA)

ACN or ABN: 34 868 192 835

Approved action: Industrial Development

Location of the project: City of Rockingham

Responsible Person: Jonathan Roach

Reporting period: 11 October 2019 to 12 October 2020

Date of preparation: 12 October 2020

2.2 Current Status

Development within the portion of the RIZ approved under the EPBC Act commenced on 14 July 2014. In 2014 clearing was undertaken for development. No further clearing was undertaken in 2015 or 2016 (Appendix 5). The newly created Lot 102 Alumina Road was cleared in August 2017. The lot is 1.88ha in size and contained approximately 0.3ha of the Threatened Ecological Community (TEC) Sedgelands in Holocene Dune Swales.

Development within the RIZ Strategic Environmental Assessment (SEA) area commenced on 14 July 2014. During the 2019-2020 compliance period, clearing was undertaken in the Development Area, shown by comparison in Appendix 5 (Landgate, 2020) for the following:

- A 4m firebreak adjacent to Patterson Road and Ward Road (approximately 800m²);
- Site compound Charles Street (approximately 5537m²);
- Construction of the extension of Alloy Avenue and Alumina Road (approximately 26448m²);
 and
- Site compound Charles Street (approx. 9000m²).

The total clearing footprint in the 2019-2020 compliance period was approximately 4.18ha (Appendix 5).

Significant management works have been undertaken in the Conservation Area and the completion criteria have been met. The Department of Conservation and Attractions (DBCA) has acknowledged completion and the handover process is underway. Maintenance works are ongoing while the

administrative process is completed. Black Cockatoo habitat has been successfully established in areas of the Rockingham Lakes Regional Park and the program was completed in the 2017-2018 compliance period. The Water Management Strategy is being implemented with monitoring results provided in Appendix 6. The Threatened Ecological Community Re-establishment Trial is ongoing with the trial basins constructed and planted in 2016, monitoring undertaken in 2016, 2017, 2018 and 2019 and is scheduled for 2020. The trial is due to be completed in 2021.

3 COMPLIANCE

3.1 Condition 1

Within 30 days after the **commencement** of the action, the person taking the action must advise the **Department** in writing of the actual date of **commencement**.

In compliance with Condition 1 DevelopmentWA advised the Department through a letter dated 11 July 2014 that the actual date of commencement of action is to be 14 July 2014 as reported in 2014. Compliance with this condition is complete.

3.2 Condition 2

The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plans or strategy required by this approval, and make them available upon request to the **Department**. Such records may be subject to audit by the **Department** or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the **Department's** website. The results of audits may also be publicised through the general media.

Condition 2 is being implemented through the preparation of this report. This Compliance Report for the 2018-2019 period, will be retained electronically using DevelopmentWA's document management system and report library and made publicly available on DevelopmentWA's website (http://www.DevelopmentWA.com.au/Industrial-and-Commercial/Rockingham-Industry-Zone/Downloads/). Information lodged in the document management system and associated library is backed up and will be retained for the duration of the project.

3.3 Condition 3

Within three months of every 12 month anniversary of the **commencement** of the action, the person taking the action must publish a compliance report on its website, and provide a copy of the compliance report to the **Department** in writing. The compliance report must address compliance with: each of the conditions of this approval; any management plans required under this approval; and whether outcomes and milestones required by these conditions and commitments made in management plans required under this approval have been met or are on track to being met. The compliance report must include any actual or potential contraventions, and must consider the **Department's** Annual Compliance Report Guidelines. Documentary evidence providing proof of the date of publication must be provided to the **Department** within 7 days after the compliance report is published. All compliance reports must remain on the website for the period this approval has effect. The person taking the

action may cease preparing and publishing compliance reports required by this condition with written agreement of the **Minister** to do so.

This Compliance Report has been prepared to satisfy the requirements of this condition. The Compliance Report will be published and remain on DevelopmentWA's website for the duration of the approval (http://www.landcorp.com.au/Industrial-and-Commercial/Rockingham-Industry-Zone/Downloads/). Evidence of publication is shown on the screenshot of the DevelopmentWA Website address (Plate 1).

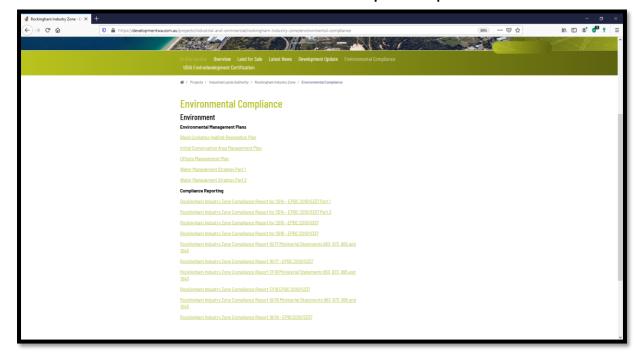


Plate 1: Screenshot of links to Compliance Reports

3.4 Condition 4

Upon the direction of the **Minister**, the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the **Minister**. The independent auditor must be approved by the **Minister** prior to the **commencement** of the audit. Audit criteria must be agreed to by the **Minister** and the audit report must address the criteria to the satisfaction of the **Minister**.

An independent audit of compliance has not been requested by the Minister.

3.5 Condition 5

If the person taking the action wishes to carry out any activity otherwise than in accordance with the management plans or strategy, as specified in the conditions, the person taking the action must submit to the **Department** for the **Minister's** written approval a revised version of that management plans or strategy. The varied activity shall not commence until the **Minister** has approved the varied management plan or strategy in writing. The **Minister** will

not approve a varied management plan or strategy unless the revised management plans or strategy would result in an equivalent or improved environmental outcome over time. If the **Minister** approves the revised management plans or strategy, that management plan or strategy, must be implemented in place of the management plans or strategy originally approved.

There are no variations to activities during this compliance period.

3.6 Condition 6

If the **Minister** believes that it is necessary or convenient for the better protection of Listed threatened species and communities (sections 18 & 18A) to do so, the **Minister** may request that the person taking the action make specified revisions to the management plans or strategy specified in the conditions and submit the revised management plans or strategy for the **Minister's** written approval. The person taking the action must comply with any such request. The revised approved management plans or strategy must be implemented. Unless the **Minister** has approved the revised management plans or strategy, then the person taking the action must continue to implement the management plan or strategy originally approved, as specified in the conditions.

The Minister has not requested for revisions to be made to the management plans or strategy.

3.7 Condition 7

If, at any time after 5 years from the date of this approval, the person taking the action has not commenced the action, then the person taking the action must not **commence** the action without the written agreement of the **Minister**.

The action commenced (14 July 2014) within the 5-year period from the date of approval (30 November 2011). Compliance with this condition is complete.

3.8 Condition 8

Unless otherwise agreed to in writing by the **Minister**, the person taking the action must publish all management plans and strategies referred to in these conditions of approval on their website. Each management plan and strategy must be published on the website within 1 month of being approved.

The management plans and strategy are published on DevelopmentWA's website (http://www.landcorp.com.au/Industrial-and-Commercial/Rockingham-Industry-Zone/Downloads/) (Plate 1).

3.9 Condition 9

Potential or actual contraventions of the approval conditions (including contravention with a commitment in a management plan) must be reported in writing / by email to the

Department within 2 business days of the person taking the action becoming aware of the actual or potential contravention.

No potential or actual contraventions have occurred in this compliance period. Any instances of non-compliance will be reported to the Department within the 2-business day timeframe as specified.

3.10 Condition 10 – Conservation Area

To protect the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) and habitat for **Black Cockatoos** the person taking the action must establish a Conservation Area of at least 89.1 ha in the area designated as 'Conservation Area' on the map provided at Attachment A prior to the **commencement** of **construction**. The person taking the action must:

- a) Include at least 19.5 ha of the TEC within the Conservation Area;
- b) Prior to commencement of construction, provide the **Department** with written evidence that the Conservation Area will be protected and managed in perpetuity by a **recognised** conservation organisation;
- c) By 30 November 2021, vest management and ownership of the conservation area with a recognised conservation organisation.

A Conservation Area was established at the RIZ prior to the commencement of construction. The boundary was updated in Attachment A of the Notice of Approval on 9 May 2016. The current boundary reflects the area shown on Attachment A of the current Approval (Appendix 3).

- a) The Conservation Area includes 19.5ha of the Threatened Ecological Community (TEC) 19b in Good to Very Good condition;
- b) The Initial Conservation Area Management Plan (ICAMP) was provided to the Department prior to commencement of construction and confirms that the Conservation Area will be protected and vested to DBCA for management;
- c) Compliance with this condition is not required at this stage, however the process for vesting is underway in compliance with this condition.

The action is currently compliant with Condition 10. DevelopmentWA has now transferred most of the Conservation Area to Crown Land and administrative details are being finalised prior to formal vesting of the site with DBCA.

3.11 Condition 11 – Conservation Area Management Plan

To protect and enhance the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) and habitat for **Black Cockatoos** within the Conservation Area the person taking the action must prepare and submit a Conservation Area Management Plan (CAMP) for the Minister's approval. The person taking the action must not **commence construction** unless the **Minister** has approved the CAMP. The Camp

must be prepared in consultation with **DPaW** and the WA Office of the Environmental Protection Authority (EPA) prior to being submitted for approval by the **Minister**.

The CAMP must include the following requirements:

- a) Management measures to protect and enhance the TEC and **Black Cockatoo** habitat;
- b) Measures to determine the effectiveness of all management measures for the TEC and **Black Cockatoo** habitat;
- c) Construction of a permanent fence around the perimeter of the conservation area;
- d) Management of weeds and feral animals, including monitoring requirements to determine the effectiveness of the weed and feral animal management;
- e) Management of fire regime and monitoring requirements to determine the effectiveness of fire management; and
- f) Rehabilitation works for degraded areas, including monitoring requirements to determine the effectiveness of the rehabilitation.

If the **Minister** approves the CAMP then the approved CAMP must be implemented.

The Conservation Area Management Plan (CAMP) is called the ICAMP to be consistent with State Approvals and will be referred to as the ICAMP in this Compliance Report. The ICAMP was prepared with advice from DBCA (then the Department of Parks and Wildlife (DPaW)). The ICAMP was approved by the Commonwealth Minister for the Environment on 18 June 2014. The ICAMP was approved by the Minister prior to construction commencing on 14 July 2014 as per Condition 11.

The ICAMP has been successfully implemented as reported in the 2018 to 2019 compliance period and ongoing maintenance is discussed Section 4.1.

3.12 Condition 12 – Black Cockatoo Habitat

To protect the habitat for Black Cockatoos, the person taking the action:

a) Must not clear more than 830 Tuart trees (Eucalyptus gomphocephala) that are greater than 500 mm diameter at breast height (DBH) from within the project area of the Rockingham Industry Zone, designated as 'SEA Boundary' on the map provided at Attachment A. The person taking the action must ensure that no trees are cleared within the Conservation Area referred to in Condition 10. Within 12 months of the commencement of construction, the person taking the action must, in consultation with DPaW, plant in the revegetation area within the DPaW managed land at Rockingham Lakes Regional Park up to 4,980 Tuart seedling trees (Eucalyptus gomphocephala) at a ratio of 6 seedling trees for every tree greater than 500 mm DBH removed from the project area. The seedling trees must be planted at a density of 200- 250 per hectare in cleared or degraded areas where Tuart density has previously been reduced. In consultation with the Department the person taking the action must ensure these seedling trees are protected in perpetuity.

- b) Must, within 12 months of the **commencement** of **construction**, commence a Tuart revegetation project as described below:
 - i. If, after two years from the date of planting trees, a survival rate of at least 80% seedling trees is not achieved, all seedling trees that have not survived must be replaced within 12 months, and the replacements maintained to achieve a survival rate of at least 80% for at least a further three years;
 - ii. The person taking the action must fund and manage the Tuart revegetation project in consultation with DPaW until such a time as management responsibility has been formally transferred to a recognised conservation organisation; and
 - iii. The revegetation project must be at least partially undertaken in the Rockingham Lakes Regional Park. If there is insufficient appropriate land in the Rockingham Lakes Regional Park to receive the required revegetation, the person taking the action, in consultation with **DPaW** and the **Department**, must find alternative locations to undertake the revegetation within the Rockingham region.
- c) Prepare and submit a **Black Cockatoo** Habitat Revegetation Plan (BCHRP) for the **Minister's** approval, that describes how approval condition 12b) will be implemented. The plan must be prepared in consultation with the DPaW. The person taking the action must not **commence construction** unless the Minister has approved the BCHRP.

The BCHRP must address the following matters:

- i. The location of the revegetation areas;
- ii. Planting methodology, including soil preparation;
- iii. What flora species that will be planted;
- iv. Monitoring program (including how survival rates and success criteria will be determined);
- v. Construction of a temporary fence around the perimeter of the revegetation areas;
- vi. Management of weeds and feral animals in the revegetation area;
- vii. How the performance of the plan will be reported to the **Minister**; and
- viii. Who will be responsible for implementing all aspects of the plan.

If the Minister approves the BCHRP then the approved BCHRP must be implemented.

The Black Cockatoo Habitat Revegetation Plan (BCHRP) was prepared in consultation with DPaW. Comments from DPaW were received during preparation of the report in 2013 and changes incorporated into the document. It was approved by the Minister on 18 June 2014. The BCHRP was approved by the Minister prior to construction commencing on 14 July 2014 as per Condition 12.

The Black Cockatoo Habitat Revegetation Program was completed in June 2018 as reported in the 2017-2018 compliance period. There have been a total of 38 significant cleared.

3.13 Condition 13 – Water Management Strategy

To protect the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) and habitat for **Black Cocka**toos the person taking the action must prepare and submit a Water Management Strategy (WMS) for the **Minister's** approval. The person taking the action must not **commence construction** unless the **Minister** has approved the WMS. The WMS must be prepared in consultation with the **DPaW** and the EPA.

The WMS must include:

- a) arrangements for the long term monitoring of groundwater levels in the site;
- a pre-construction baseline for surface water and groundwater quality data and a monitoring program for these parameters to maintain stormwater and groundwater quality and hydrology to pre-development levels;
- c) an adaptive management plan, including contingency measures, to ensure construction does not affect groundwater levels beyond normal seasonal variation, with the aim of ensuring that the TEC persists and thrives in perpetuity;
- d) maintaining or improving groundwater balance;
- e) managing the salt wedge, Cockburn Sound interface;
- f) preventing abstraction of shallow groundwater during construction or for future industry use; and
- g) managing drainage into the conservation site.

If the Minister approves the WMS then the approved WMS must be implemented.

The Water Management Strategy (WMS) was prepared and submitted to the Department of Water (DoW) and DPaW. The WMS was endorsed by DoW and by the OEPA. The Minister approved the WMS on 1 August 2013. The WMS was approved by the Minister prior to construction commencing on 14 July 2014 as per Condition 13.

The WMS is currently being implemented and is discussed in detail in Section 4.3.

3.14 Condition 14 – Offsets Management Plan

To protect the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) the person taking the action must prepare and submit an Offsets Management Plan (OMP) for the **Minister's** approval. The person taking the action must not **commence construction** unless the **Minister** has approved the OMP. The OMP must be prepared in consultation with DPaW.

The OMP must include:

a) The rehabilitation of a minimum of 18ha of the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain that required active management in land managed by **DPaW** at other priority sites (as

- agreed by **DPaW** and the **Department**) in the Rockingham region. The rehabilitation must commence within 6 months of the **commencement** of **construction**.
- b) A research trial for the re-establishment of TEC in the onsite TEC re-establishment lot outlined in <u>Attachment B</u>, in accordance with the following requirements:
 - The method and deliverables of the research trial must be prepared in consultation with **DPaW**;
 - ii. The research trial must consider the existing TEC within the Conservation Area;
 - iii. The research trial must commence within 12 months of the **commencement** of **construction** and must be undertaken for no less than five years;
 - iv. The research trial must include an annual program for the monitoring and reporting.
 - v. Within 12 months of completing the research trial a report documenting the results of the trial must be submitted to **DPaW** and the **Department**.

If the **Minister** approves the OMP then the approved OMP must be implemented. The annual report referred to in condition 9 detailing performance against the plan must include the following information;

- Areas of the Rockingham Industry Zone cleared for development and revegetation;
- Areas of TEC cleared and areas of TEC recreated/rehabilitated and their protection arrangements; and
- Areas of the TEC rehabilitated at other occurrences of the TEC in the Rockingham region.

An amendment to EPBC 2010/5337 Condition 14 was requested by DevelopmentWA on 18 March 2014 and approved by the Department on 19 June 2014 (Appendix 2). An Offsets Management Plan (OMP) was prepared in accordance with the amended condition. The plan was prepared in consultation with DBCA and approved by the Minister on 18 June 2014. The OMP was approved by the Minister prior to construction commencing on 14 July 2014 as per Condition 14.

The OMP is currently being implemented and is discussed in detail in Section 4.4.

4 COMPLIANCE WITH ENVIRONMENTAL MANAGEMENT PLANS

4.1 Initial Conservation Area Management Plan

The management works in the Conservation Area have been successful, reaching the completion criteria as outlined in the ICAMP. Completion has been acknowledged by DBCA and DoEE. DevelopmentWA is currently facilitating the administrative details for the handover of the Conservation Area to the management of DBCA. Ongoing management works are being undertaken to ensure the Conservation Area is managed to the completion criteria and handover is expected in December 2020/January 2021.

4.1.1 Fencing

In accordance with the ICAMP the fence around the Conservation Area is required to be inspected every two months. From June 2015, the fence inspections were undertaken by Greening Australia, Western Australia (GAWA). Inspections are ongoing until handover at which time the fence will be intact.

4.1.2 Rubbish

Access into the Conservation Area has been reduced through the construction of the fence and installation of limestone boulders along the fence line. Rubbish inspections have determined that the fence has significantly reduced the amount of illegal rubbish dumped within the Conservation Area. The site is inspected to record any additional rubbish that has been dumped on the site and rubbish removal, including asbestos removal near tracks is ongoing. DevelopmentWA has committed to a final rubbish removal prior to handing over the Conservation Area to remove any newly dumped rubbish.

4.1.3 Weed Control

The weed control has been effective with a good level of control being taken over most of the weeds and healthy inroads into the control of some of the more stubborn species. In October 2018, a detailed weed survey was undertaken to direct final weed control efforts to meet the completion criteria. Although the completion criteria have been met DevelopmentWA have been maintaining the Conservation Area until formal handover is complete. Weeding works have been undertaken over the 2019/2020 period to ensure the completion of works is maintained with Cotton Bush (*Gomphocarpus fruticosus*) being treated in areas where additional infestations have been located. This involved an initial weed treatment in September 2019 and then monthly treatments until January 2020. In June 2020 a site inspection was undertaken to direct maintenance weed control efforts for winter weeds including Cotton Bush, which had a very low number of scattered individuals in the northern part of the site. A 1 to 2 month weed control program has been commissioned to target:

- Cotton bush;
- One leafed cape tulip;

- Freesia;
- Paterson's curse;
- Geraldton Carnation;
- Bridal Creeper;
- Geranium;
- Castor Oil;
- Tambookie;
- European Olive;
- Brazilian Pepper;
- · Buckthorn; and
- Purple pincushion.

4.1.4 Rehabilitation

The planting of tubestock and direct seeding commenced in Autumn 2016. The rehabilitation was inspected in June 2020 and continues to mature and is in good condition. The rehabilitated area is showing good structure with a stratified vegetation cover as shown in the before and after photos (Plate 2 and 3).

Plate 2: Northern Area 2015



Plate 3: Rehabilitated Northern Area 2020



4.1.5 Native Fauna Management

No suitable hollows were in the 38 Tuart tree cleared to be used for habitat for Black Cockatoos. Two kangaroos were observed within the Conservation Area in the 2018-2019 Compliance Reporting period. In accordance with the management plan kangaroos only need to be managed if there is damage to the vegetation, rehabilitation or fencing in the Conservation Area. No damage caused by kangaroos has been recorded in the 2019 to 2020 compliance period.

4.1.6 Pest Fauna Management

There was little evidence of impact of rabbits and foxes on the site during the June 2020 inspection.

4.2 Water Management Strategy

4.2.1 Development in the Referral Area

Development has been undertaken in accordance with the WMS.

4.2.2 Installation of Bores

All bores have been installed in the RIZ in compliance with the WMS.

4.2.3 Groundwater Monitoring

Monitoring in the RIZ commenced in February 2015 with the groundwater levels measured along the transect of bores originally installed by JDA during the initial studies in the RIZ. An increase in water level across all bores was seen in 2017 and 2018, higher than previous years in response to above average rainfall received in 2017 and 2018. Bore levels were average in 2019 (Appendix 6).

Nutrient levels were not significantly different from pre-development concentrations (Appendix 6) Heavy metal concentrations are all within or less than median pre-development levels (Appendix 6).

There is no direct flow of stormwater into the Conservation Area from the developed area.

4.2.4 Conclusion

The development is being implemented and monitoring undertaken in accordance with the WMS.

4.3 Offsets Management Plan

4.3.1 Offsets Packages

Offsets Packages 1 and 2 were implemented in 2014 and reported in the 2014 Compliance Report. Part A of Condition 14 has been completed.

4.3.2 TEC Re-establishment Trial

The research trial commenced prior to 14 July 2015. The research trial consists of a series of six basins constructed to be three different depths from groundwater and planted with species typical to the TEC to measure the impact on depth to groundwater and determine if vegetation resembling the TEC could be created in drainage swales.

The site was selected for its proximity to where the TEC occurs naturally. Landform and substrate close to the TEC swales in the RIZ is on land vested with the City of Rockingham (the City) and therefore the trial implementation has been undertaken in consultation with the City. The earthworks for the trial commenced 5 July 2016 and planting started on 17 August 2016. The basins, fencing, firebreaks, mulching and planting were completed on 19 August 2016. Monitoring was completed in 2016 and 2017 and included recording the height, density and survival in the TEC Trial basins

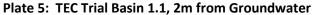
Monitoring of the site undertaken in late October 2018 in the 2018-2019 compliance period. The different depths to groundwater appeared to have impacted on the growth of the species in the TEC, with an increase in height and coverage in basins closest to the groundwater in the 2017 monitoring.

This trend was more pronounced in the 2018 monitoring, more so in 2019 and highly visible during a site inspection in June 2020 (Plate 4 and 5).

Ongoing management of the TEC Trial has included the repair of fences when they are cut and weed management. The coverage of weeds in the 2019 monitoring was moderate. Winter weeds were observed in 2020 during a site inspection in June and have been managed by an appropriately qualified weed contractor. The coverage of weeds will be measured in the 2020 monitoring period and if required, further weed management will be scheduled.



Plate 4: Basin 2.1, 1m from Groundwater





Complete results and statistical analysis will be compiled at the conclusion of the five-year monitoring period as per the OMP.

4.3.3 TEC Research

Approximately 0.3ha of TEC was cleared during the 2017 Compliance Reporting period. Some paperbarks (*Melaleuca rhaphiophylla*) and grasstrees (*Xanthorrhoea preissii*) were salvaged from an area of wetland in the development footprint. The opportunity was taken to examine the root morphology of TEC species within a wetland swale as per the OMP. No further clearing of TEC took place in the 2019 to 2020 compliance period.

4.3.4 Areas of Clearing

As outlined in Section 2.2 clearing within the RIZ in the 2019 to 2020 compliance period consisted of:

- A 4m firebreak adjacent to Patterson Road and Ward Road (approximately 800m²);
- Site compound Charles Street (approximately 5537m²);
- Construction of the extension of Alloy Avenue and Alumina Road (approximately 26448m²);
 and
- Site compound Charles Street (approx. 9000m²).

The total clearing footprint in the 2019-2020 compliance period was approximately 4.18ha (Appendix 5). A total of 38 significant Tuarts were cleared during the compliance period and to date.

4.3.5 Conclusion

The Off-site and On-site offsets required by the OMP are being implemented in compliance with the OMP.

5 AUDIT TABLE

Note:

'Department' refers to the Australian Government Department administering the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act). Currently the Department of the Environment (DoE).

'Minister' refers to the Minister administering the EPBC Act and includes a delegate of the Minister.

RIZ: Rockingham Industry Zone

BCHRP: Black Cockatoo Habitat Revegetation Plan

DBCA: Department of Biodiversity, Conservation and Attractions (Formerly DPaW)

DBH: Diameter at Breast Height
DoE: Department of the Environment

DoEE: Department of the Environment and Energy (Formerly DoE)

DoW: Department of Water

DPaW: Department of Parks and Wildlife

ICAMP: Initial Conservation Area Management Plan OEPA: Office of the Environmental Protection Authority

OMP: Offsets Management Plan

SEA: Strategic Environmental Assessment TEC: Threatened Ecological Community WMS: Water Management Strategy

EPBC Condition Number	Condition	Comments	Requirement	Evidence	When	Status
1	Within 30 days after the commencement of the action, the person taking the action must advise the Department in writing of the actual date of commencement .	The date of commencement of action was 14 July 2014.	DevelopmentWA to notify in writing of the commencement date.	Letter of notification sent to DoE on 11 July 2014.	Within 30 days after the commencement of the action	Compliant - Complete
2	The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plans or strategy required by this approval, and make them available upon request to the Department . Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	In accordance with Condition 2 of the approval, records of all activities relating to the conditions of approval are being maintained by DevelopmentWA and on behalf of DevelopmentWA by PGV Environmental. This Compliance Report provides an overview of all the actions relating to each condition.	DoE has not requested records from DevelopmentWA.	N/A	When requested	Compliant
3	Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a compliance report on its website, and provide a copy of the compliance report to the Department in writing. The compliance report must address compliance with: each of the conditions of this approval; any management plans required under this approval; and whether outcomes and milestones required by these conditions and commitments made in management plans required under this approval have been met or are on track to being met. The compliance report must include any actual or potential contraventions, and must consider the Department's Annual Compliance Report Guidelines. Documentary evidence providing proof of the date of publication must be provided to the Department within 7 days after the compliance report is published. All compliance reports must remain on the website for the period this approval has effect. The person taking the action may cease preparing and publishing compliance reports required by this condition with written agreement of the Minister to do so.	This report will be published on the project website and updated annually for the duration of the approval.	Evidence of publication and letter to DoE in the case of non-compliance	N/A	By 14 October annually	Compliant
4	Upon the direction of the Minister , the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister . The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister .	An independent audit of compliance has not been requested by the Minister.	N/A	N/A	When requested by the Minister	Not Applicable - Complaint

EPBC						
Condition Number	Condition	Comments	Requirement	Evidence	When	Status
5	If the person taking the action wishes to carry out any activity otherwise than in accordance with the management plans or strategy, as specified in the conditions, the person taking the action must submit to the Department for the Minister's written approval a revised version of that management plans or strategy. The varied activity shall not commence until the Minister has approved the varied management plan or strategy in writing. The Minister will not approve a varied management plan or strategy unless the revised management plans or strategy would result in an equivalent or improved environmental outcome over time. If the Minister approves the revised management plans or strategy, that management plan or strategy, must be implemented in place of the management plans or strategy originally approved.	DevelopmentWA do not wish to carry out any activities not in accordance with the strategy and management plans approved by the Minister on 1 August 2013 and 18 June 2014.	N/A	Current strategy and management plans being implemented published on DevelopmentWA's website	Life of the proposal	Compliant
6	If the Minister believes that it is necessary or convenient for the better protection of Listed threatened species and communities (sections 18 & 18A) to do so, the Minister may request that the person taking the action make specified revisions to the management plans or strategy specified in the conditions and submit the revised management plans or strategy for the Minister's written approval. The person taking the action must comply with any such request. The revised approved management plans or strategy must be implemented. Unless the Minister has approved the revised management plans or strategy, then the person taking the action must continue to implement the management plan or strategy originally approved, as specified in the conditions.	The Minister has not requested for revisions to be made to the management plans or strategy.	N/A	N/A	When requested by the Minister	Not Applicable
7	If, at any time after 5 years from the date of this approval, the person taking the action has not commenced the action, then the person taking the action must not commence the action without the written agreement of the Minister	The action has commenced within the 5-year period from the date of approval.	N/A	Letter of notification sent to DoE on 11 July 2014.	N/A	Compliant – Complete
8	Unless otherwise agreed to in writing by the Minister , the person taking the action must publish all management plans and strategies referred to in these conditions of approval on their website. Each management plan and strategy must be published on the website within 1 month of being approved.	No additional management plans have been required. All Management Plans are available on http://www.DevelopmentWA.com.au/Industrial-and-Commercial/Rockingham-Industry-Zone/Downloads/	Verify management plans are on the website	Screen Dump of links (Plate 1)	Within 1 month of being approved	Complete
9	Potential or actual contraventions of the approval conditions (including contravention with a commitment in a management plan) must be reported in writing / by email to the Department within 2 business days of the person taking the action becoming aware of the actual or potential contravention.	There were no potential or actual contraventions in the 2018-2019 compliance period.	Report complies with this requirement	Compliance Report published on DevelopmentWA's website.	Within 2 business days of becoming aware	Compliant
10	Conservation Area Coastal Plain (TEC) and habitat for Black Cockatoos the person taking the action must establish a Conservation Area of at least 89.1 ha in the area designated as 'Conservation Area' on the map provided at Attachment A prior to the commencement of construction. The person taking the action must: a) Include at least 19.5 ha of the TEC within the Conservation Area; b) Prior to commencement of construction, provide the Department with written evidence that the Conservation Area will be protected and managed in perpetuity by a recognised conservation organisation; c) By 30 November 2021, vest management and ownership of the conservation area with a recognised conservation organisation.	A Conservation Area of was established at the RIZ prior to the commencement of construction and was updated in 2016 and currently reflects the area as shown in the Variation to Conditions dated 9 May 2016 Approval. a) The Conservation Area includes 19.5ha of TEC 19b in Good to Very Good condition; b) The ICAMP was provided to the Department prior to commencement of construction and confirms that the Conservation Area will be protected and vested to DPaW for management;	Establish a Conservation Area prior to commencement of construction.	2014 Compliance Report	Prior to construction.	Compliant – Complete
		c) Compliance with this condition is not required at this stage.	Vest management and ownership to DBCA.		Prior 31 November 2021	Not required at this stage - Compliant

EPBC						
Condition Number	Condition	Comments	Requirement	Evidence	When	Status
11	To protect and enhance the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) and habitat for Black Cockatoos within the Conservation Area the person taking the action must prepare and submit a Conservation Area Management Plan (CAMP) for the Minister's approval. The person taking the action must not commence construction unless the Minister has approved the CAMP. The Camp must be prepared in consultation with DPaW and the WA Office of the Environmental Protection Authority (EPA) prior to being submitted for approval by the Minister . The CAMP must include the following requirements:	Comments from DPaW and OEPA were received during preparation of the report in 2013 and changes incorporated into the document. The ICAMP was approved prior to commencement of construction which was 14 July 2014.	Preparation of an ICAMP and approval of ICAMP by the Minister prior to construction	ICAMP approved by the OEPA on 23 December 2013 and by the Minister on 18 June 2014 – 2014 Compliance Report.	Prior to construction	Compliant - Complete
	 a. Management measures to protect and enhance the TEC and Black Cockatoo habitat; b. Measures to determine the effectiveness of all management measures for the TEC and Black Cockatoo habitat; c. Construction of a permanent fence around the perimeter of the conservation area; d. Management of weeds and feral animals, including monitoring requirements to determine the effectiveness of the weed and feral animal management; e. Management of fire regime and monitoring requirements to determine the effectiveness of fire management; and f. Rehabilitation works for degraded areas, including monitoring requirements to determine the effectiveness of the rehabilitation. 					
	If the Minister approves the CAMP then the approved CAMP must be implemented	The ICAMP has been successfully implemented.	Approved ICAMP to be implemented	As reported in the 2018 to 2019 Compliance Report	Following approval by the Minister	Compliant - Complete
12	Black Cockatoo Habitat To protect the habitat for Black Cockatoos, the person taking the action: a) Must not clear more than 830 Tuart trees (Eucalyptus gomphocephala) that are greater than 500 mm diameter at breast height (DBH) from within the project area of the Rockingham Industry Zone, designated as 'SEA Boundary' on the map provided at Attachment A. The person taking the action must ensure that no trees are cleared within the Conservation Area referred to in Condition 10. Within 12 months of the commencement of construction, the person taking the action must, in consultation with DPaW, plant in the revegetation area within the DPaW managed land at Rockingham Lakes Regional Park up to 4,980 Tuart seedling trees (Eucalyptus gomphocephala) at a ratio of 6 seedling trees for every tree greater than 500 mm DBH removed from the project area. The seedling trees must be planted at a density of 200- 250 per hectare in cleared or degraded areas where Tuart density has previously been reduced. In consultation with the Department the person taking the action must ensure these seedling trees are protected in perpetuity.	To date there have been 38 Tuart trees (Eucalyptus gomphocephala) that are greater than 500 mm DBH cleared in the RIZ referral area. There have been no trees cleared within the Conservation Area.	Do not clear more than 830 Tuart trees with a DBH of greater than 500 mm from the RIZ SEA area and no Tuart trees from the Conservation Area.	Aerial photography of cleared areas pre and post clearing Appendix 4.	Life of the proposal	Compliant
	 d) Must, within 12 months of the commencement of construction, commence a Tuart revegetation project as described below: iv. If, after two years from the date of planting trees, a survival rate of at least 80% seedling trees is not achieved, all seedling trees that have not survived must be replaced within 12 months, and the replacements maintained to achieve a survival rate of at least 80% for at least a further three years; v. The person taking the action must fund and manage the Tuart revegetation project in consultation with DPaW until such a time as management responsibility has been formally transferred to a recognised conservation organisation; and vi. The revegetation project must be at least partially undertaken in the Rockingham Lakes Regional Park. If there is insufficient appropriate land in the Rockingham Lakes Regional Park to receive the required revegetation, the person taking the action, in consultation with DPaW and the Department, must find alternative locations to undertake the revegetation within the Rockingham region. 	The Tuart revegetation project has been undertaken with the planting of 5000 Tuarts in areas all located within the Rockingham Lakes Regional Park. The project was undertaken in accordance with the approved BCHRP	Tuart revegetation project.	Appendix 7 of the 2017 Compliance Report	Prior to 14 July 2015	Compliant - Complete

EPBC						
Condition	Condition	Comments	Requirement	Evidence	When	Status
Number	c) Prepare and submit a Black Cockatoo Habitat Revegetation Plan (BCHRP) for the Minister's approval, that describes how approval condition 12b) will be implemented. The plan must be prepared in consultation with the DPaW . The person taking the action must not commence construction unless the Minister has approved the BCHRP. The BCHRP must address the following matters: i. The location of the revegetation areas; ii. Planting methodology, including soil preparation; iii. What flora species that will be planted; iv. Monitoring program (including how survival rates and success criteria will be determined); v. Construction of a temporary fence around the perimeter of the revegetation areas; vi. Management of weeds and feral animals in the revegetation area; vii. How the performance of the plan will be reported to the Minister ; and	DPaW were consulted and endorsed the BCHRP prior to the plan being submitted to DoE. The plan addresses all matters required. The Plan was approved by the Minister on 18 June 2014 prior to commencement on 14 July 2014.	Preparation of a BCHRP and approval of BCHRP by the Minister prior to construction.	BCHRP approved by the Minister on 18 June 2014. Construction commenced on 14 July 2014 as per letter submitted to DoE – 2014 Compliance Report	Prior to Construction	Compliant – Complete
	viii. Who will be responsible for implementing all aspects of the plan. If the Minister approves the BCHRP then the approved BCHRP must be implemented.	The BCHRP has been successfully implemented.	Approved BCHRP has been implemented	2017-2018 Compliance Report documents completion	Prior to 14 July 2015 and Ongoing	Compliant – Complete
13	Water Management Strategy To protect the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) and habitat for Black Cockatoos the person taking the action must prepare and submit a Water Management Strategy (WMS) for the Minister's approval. The person taking the action must not commence construction unless the Minister has approved the WMS. The WMS must be prepared in consultation with the DPaW and the EPA. The WMS must include: a) arrangements for the long term monitoring of groundwater levels in the site; b) a pre-construction baseline for surface water and groundwater quality data and a monitoring program for these parameters to maintain stormwater and groundwater quality and hydrology to pre-development levels; c) an adaptive management plan, including contingency measures, to ensure construction does not affect groundwater levels beyond normal seasonal variation, with the aim of ensuring that the TEC persists and thrives in perpetuity; d) maintaining or improving groundwater balance; e) managing the salt wedge, Cockburn Sound interface; f) preventing abstraction of shallow groundwater during construction or for future industry use; and g) managing drainage into the conservation site.	The WMS was prepared and submitted to the DoW and DPaW. It was endorsed by the DoW on 5 July 2013 and by the OEPA on 23 December 2013. The WMS was approved by the Minister prior to construction commencing on 14 July 2014.	Preparation of a WMS and approval of WMS by the Minister prior to construction.	The Minister approved the WMS on 1 August 2013.	Prior to construction	Compliant – Complete
	If the Minister approves the WMS then the approved WMS must be implemented	The WMS is being implemented. In accordance with the WMS post development monitoring will be conducted monthly for groundwater level measurements and quarterly for groundwater quality analysis.	Approved WMS to be implemented.	Groundwater Monitoring Report (Appendix 7)	Following approval by the Minister Five year period completed	Compliant

C dition nber	Condition	Comments	Requirement	Evidence	When	Status
	Offsets Management Plan To protect the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) the person taking the action must prepare and submit an Offsets Management Plan (OMP) for the Minister's approval. The person taking the action must not commence construction unless the Minister has approved the OMP. The OMP must be prepared in consultation with DPaW. The OMP must include:	An OMP was prepared in consultation with DPaW and in accordance with the amended condition. The OMP was approved by the Minister prior to construction commencing on 14 July 2014.	Preparation of an OMP and approval of OMP by the Minister prior to construction.	The OMP was approved by the Minister on 18 June 2014.	Prior to construction	Compliant - Complete
	a) The rehabilitation of a minimum of 18ha of the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain that required active management in land managed by DPaW at other priority sites (as agreed by DPaW and the Department) in the Rockingham region. The rehabilitation must commence within 6 months of the commencement of construction.	Funding was provided to DPaW to manage at least 18ha of TEC	Rehabilitation of a minimum of 18ha of TEC 19 at other sites in the region, to be managed by DPaW.	Offsets statements issued by DPaW on 6 September 2013 and 1 April 2014 and proof of payment to DPaW in 2014 Compliance Report	To commence by 14 January 2015 – responsibility of DPaW	Compliant – Complete
	 b) A research trial for the re-establishment of TEC in the onsite TEC reestablishment lot outlined in Attachment B, in accordance with the following requirements: The method and deliverables of the research trial must be prepared in consultation with DPaW; The research trial must consider the existing TEC within the Conservation Area; The research trial must commence within 12 months of the commencement of construction and must be undertaken for no less than five years; The research trial must include an annual program for the monitoring and reporting. V. Within 12 months of completing the research trial a report documenting the results of the trial must be submitted to DPaW and the Department. 	The Research Trial was included in the OMP and endorsed by DPaW that was approved by the Minister.	Research trial: Re-establishment of TEC Annual monitoring and reporting Completion report to be submitted to DPaW and the Department	The OMP was approved by the Minister on 18 June 2014 – approval in 2014 Compliance Report	Prior to Commencement	Compliant – Complete
	If the Minister approves the OMP then the approved OMP must be implemented.	The OMP is being implemented. The TEC trial basins were constructed and planted in 2016 in accordance with the OMP. Monitoring commenced in November 2016, was undertaken in November 2017 and is scheduled for November 2018	Approved OMP to be implemented	This Compliance Report TEC Re-establishment Trial Monitoring – Section 4.3.2	Ongoing	Compliant
	 The annual report referred to in condition 9 detailing performance against the plan must include the following information; Areas of the Rockingham Industry Zone cleared for development and revegetation; Areas of TEC cleared and areas of TEC recreated/rehabilitated and their protection arrangements; and Areas of the TEC rehabilitated at other occurrences of the TEC in the Rockingham region. 	No TEC vegetation was cleared during the 2019-2020 compliance period. The TEC Trial as outlined in the OMP resulted in 4,043m² of basin and a total of 2.83ha within the trial area which will is vested in the City of Rockingham within designated reserves as per the OMP. The areas of TEC 19 to be rehabilitated at other areas in the Rockingham region is the responsibility of DBCA.	Inclusion of additional information in this report	Aerial Photography (Appendix 5)	Prior to 14 October 2017	Compliant

6 COMPLIANCE STATEMENT

No non-compliance with regards to EPBC referral 2010/5337 were identified during the period covered by this 2019 to 2020 EPBC Compliance Report.

The RIZ development is therefore compliant with the requirements of EPBC referral 2010/5337.

7 PUBLIC AVAILABILITY OF COMPLIANCE REPORT

In accordance with Condition 2 of EPBC referral 2010/5337 accurate records of all activities are being retained for the life of the Project and can be made available when requested by the Department of the Environment.

In accordance with Condition 3 of EPBC referral 2010/5337 this Compliance Report will be published on DevelopmentWA's website (http://www.DevelopmentWA.com.au/Industrial-and-Commercial/Rockingham-Industry-Zone/Downloads/) and will remain available for the duration of the approval.

APPENDIX 1 Approval under the EPBC Act EPBC 2010/5337



Department of Sustainability, Environment, Water, Population and Communities

Approval

Rockingham Industrial Zone, WA (EPBC 2010/5337)

This decision is made under sections 130(1) and 133 of the *Environment Protection and Biodiversity Conservation Act* 1999.

Proposed action

Western Australian Land Authority
34 868 192 835
The development of 339 ha of land in Rockingham, WA, for industrial purposes (the Rockingham Industry Zone, [See EPBC Act referral 2010/5337].

Approval decision

Controlling Provision	Decision
Listed threatened species and communities (sections 18 & 18A)	Approved

conditions of approval

This approval is subject to the conditions specified below.

expiry date of approval

This approval has effect until 31 December 2035.

_			B
IDAC	ICIO	n-ma	KOF
	1310	11-1110	INCI

name and position

Barbara Jones

Assistant Secretary

Environment Assessment Branch

signature

V Van

date of decision

30November 2011

Conditions attached to the approval

- Within 30 days after the commencement of the action, the person taking the action must advise the Department in writing of the actual date of commencement.
- 2. The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plans or strategy required by this approval, and make them available upon request to the **Department**. Such records may be subject to audit by the **Department** or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the **Department's** website. The results of audits may also be publicised through the general media.
- 3. Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans or strategies as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the **Department** at the same time as the compliance report is published.
- 4. Upon the direction of the Minister, the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister. The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister.
- 5. If the person taking the action wishes to carry out any activity otherwise than in accordance with the management plans or strategy, as specified in the conditions, the person taking the action must submit to the **Department** for the **Minister's** written approval a revised version of that management plans or strategy. The varied activity shall not commence until the **Minister** has approved the varied management plan or strategy in writing. The **Minister** will not approve a varied management plan or strategy unless the revised management plans or strategy would result in an equivalent or improved environmental outcome over time. If the **Minister** approves the revised management plan or strategy, that management plan or strategy, must be implemented in place of the management plans or strategy originally approved.
- 6. If the Minister believes that it is necessary or convenient for the better protection of Listed threatened species and communities (sections 18 & 18A) to do so, the Minister may request that the person taking the action make specified revisions to the management plans or strategy specified in the conditions and submit the revised management plans or strategy for the Minister's written approval. The person taking the action must comply with any such request. The revised approved management plans or strategy must be implemented. Unless the Minister has approved the revised management plans or strategy, then the person taking the action must continue to implement the management plan or strategy originally approved, as specified in the conditions.
- 7. If, at any time after 5 years from the date of this approval, the person taking the action has not commenced the action, then the person taking the action must not **commence** the action without the written agreement of the **Minister**.

- 8. Unless otherwise agreed to in writing by the Minister, the person taking the action must publish all management plans and strategies referred to in these conditions of approval on their website. Each management plan and strategy must be published on the website within 1 month of being approved.
- 9. By 31 December of each year after the commencement of the action, the person taking the action must publish a report on their website addressing compliance with the conditions of this approval over the previous 12 months, including implementation of any management plans as specified in the conditions. Non-compliance with any of the conditions of this approval must be reported to the **Department** at the same time as the compliance report is published. These reports must remain available on the internet for at least 5 years after they are published.

10. Conservation Area

To protect the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) and habitat for Black Cockatoos the person taking the action must establish a Conservation Area of at least 90.5 ha prior to the commencement of construction, as identified by the area within the blue line on the map (at Attachment A). The person taking the action must:

- (a) include at least 18.72 ha of the TEC within the Conservation Area;
- (b) prior to commencement of construction, provide the Department with written evidence that the Conservation Area will be protected and managed in perpetuity by a recognised conservation organisation;
- (c) within five years of the date of this approval, vest management and ownership of the conservation area with a **recognised conservation organisation**.

11. Conservation Area Management Plan

To protect and enhance the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) and habitat for Black Cockatoos within the Conservation Area the person taking the action must prepare and submit a Conservation Area Management Plan (CAMP) for the Minister's approval. The person taking the action must not commence construction unless the Minister has approved the CAMP. The CAMP must be prepared in consultation with DEC and the WA Office of the Environmental Protection Authority (EPA).

The CAMP must include the following requirements:

- (a) Management measures to protect and enhance the TEC and Black Cockatoo habitat;
- (b) Measures to determine the effectiveness of all management measures for the TEC and Black Cockatoo habitat;
- (c) Construction of a permanent fence around the perimeter of the conservation area;
- (d) Management of weeds and feral animals, including monitoring requirements to determine the effectiveness of the weed and feral animal management;
- (e) Management of fire regime, and monitoring requirements to determine the effectiveness of the fire management, and
- (f) Rehabilitation works for degraded areas, including rubbish removal, and including monitoring requirements to determine the effectiveness of the rehabilitation.

If the Minister approves the CAMP then the approved CAMP must be implemented.

12. Black Cockatoo Habitat

To protect and enhance habitat for Black Cockatoos, the person taking the action:

- (a) May not clear more than 830 Tuart trees (Eucalyptus gomphocephala) that are greater than 500 mm diameter at breast height (DBH) from within the project area of the Rockingham Industry Zone ('Strategic Environmental Assessment Area' identified by the pink highlighted area on the map at <u>Attachment A</u>). No trees are permitted to be cleared within the Conservation Area referred to in condition 10.
- (b) Must, within 12 months of the commencement of construction, commence a Tuart revegetation project as described below:
 - At least six Tuart trees must be planted for every Tuart tree greater than 500 mm DBH removed.
 - The seedling trees must be planted at a rate of no greater than 250 stems per hectare in cleared or highly degraded areas where Tuart density has been greatly reduced.
 - iii. If after two years from the date of planting trees, a survival rate of 80% trees is not achieved, all planted trees that have not survived must be replaced within 12 months, and maintained with a survival rate of at least 80% for a minimum of a further three years.
 - iv. The person taking the action must fund and manage the Tuart revegetation project in consultation with the DEC until such a time as management responsibility has been formally transferred to a recognised conservation organisation.
 - v. The revegetation project must be at least partially undertaken in the Rockingham Lakes Regional Park. If there is insufficient land in the Rockingham Lakes Regional Park to undertake the required revegetation, the person taking the action, in consultation with DEC and the **Department**, must find alternate locations to undertake the revegetation within the Rockingham region.
- (c) Prepare and submit a Black Cockatoo Habitat Revegetation Plan (BCHRP) for the Minister's approval, that describes how approval condition 12 b) will be implemented. The plan must be prepared in consultation with the DEC. The person taking the action must not commence construction unless the Minister has approved the BCHRP.

The BCHRP must address the following matters:

- The location of revegetation areas;
- ii. Planting methodology, including soil preparation;
- iii. What flora species that will be planted;
- iv. A monitoring program (including how survival rates and success criteria will be determined);
- v. Construction of a temporary fence around the perimeter of the revegetation areas:
- vi. Management of weeds and feral animals in the revegetation area;
- vii. How the performance of the plan will be reported to the Minister; and
- viii. Who will be responsible for implementing all aspects of the plan.

If the **Minister** approves the BCHRP then the approved BCHRP must be implemented.

13. Water Management Strategy

To protect the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) and habitat for Black Cockatoos the person taking the action must prepare and submit a Water Management Strategy (WMS) for the Minister's approval. The person taking the action must not commence construction unless the Minister has approved the WMS. The WMS must be prepared in consultation with the DEC and the EPA.

The WMS must include:

- (a) arrangements for the long term monitoring of groundwater levels in the site;
- a pre-construction baseline for surface water and groundwater quality data and a monitoring program for these parameters to maintain stormwater and groundwater quality and hydrology to pre-development levels;
- an adaptive management plan, including contingency measures, to ensure construction does not affect groundwater levels beyond normal seasonal variation, with the aim of ensuring that the TEC persists and thrives in perpetuity;
- (d) maintaining or improving groundwater balance;
- (e) managing the salt wedge, Cockburn Sound interface;
- (f) preventing abstraction of shallow groundwater during construction or for future industry use; and
- (g) managing drainage into the conservation site.

If the Minister approves the WMS then the approved WMS must be implemented.

14. Offsets Management Plan

To protect the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) the person taking the action must prepare and submit an Offsets Management Plan (OMP) for the Minister's approval. The person taking the action must not commence construction unless the Minister has approved the OMP. The OMP must be prepared in consultation with DEC and the EPA. The OMP must address the rehabilitation of 9 hectares of threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain that requires active management in land managed by the DEC at other priority sites (as agreed by DEC and the Department) in the Rockingham region.

The OMP must include:

- (a) Within 12 months of clearing any areas of TEC, 1.5 ha for every 1 ha of TEC cleared must be re-established onsite and protected in perpetuity; and
- (b) A program for the monitoring of vegetation regeneration in the areas of TEC rehabilitated. After 2 years of monitoring, consult with DEC and undertake further rehabilitation in areas of the TEC where natural regeneration is not successful.

If the Minister approves the OMP then the approved OMP must be implemented.

The annual report referred to in condition 9 detailing performance against the plan must include the following information:

- i. Areas of the Rockingham Industry Zone cleared for development and revegetation;
- ii. Areas of the TEC cleared and areas of TEC recreated/rehabilitated and their protection arrangements; and
- iii. Areas of the TEC rehabilitated at other occurrences of the TEC in the Rockingham region.

Definitions

a) Black Cockatoo.

The endangered Carnaby's Black Cockatoo (Calyptorhynchus latirostris).

b) Department.

The Australian Government Department administering the *Environment Protection and Biodiversity Conservation Act* 1999.

c) Minister.

The Minister administering the *Environment Protection and Biodiversity Conservation Act* 1999 and includes a delegate of the Minister.

d) Construction.

Includes any preparatory works required to be undertaken including clearing vegetation, the erection of any onsite temporary structures and the use of heavy duty equipment for the purpose of breaking the ground for buildings or infrastructure.

e) Clearance of native vegetation.

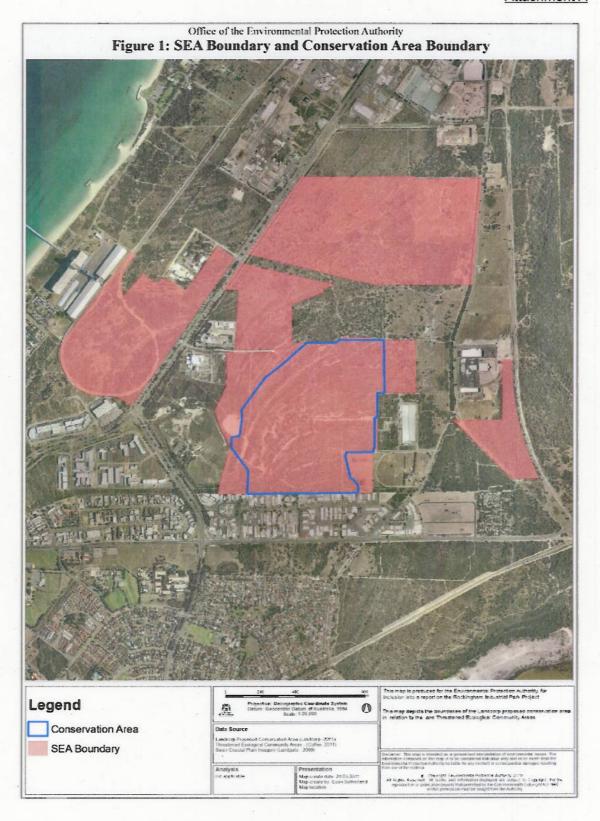
The cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting or burning of native vegetation.

f) Commencement

The construction of any infrastructure, excluding fences and signage, associated with the proposed action, including preparatory works such as clearing vegetation to begin construction.

g) Recognised conservation organisation

The WA Department of Environment and Conservation, or an alternative conservation organisation that has been approved in writing by the **Department**.



APPENDIX 2

Notice of Variation to Conditions 2014 (EPBC 2010/5337)



VARIATION TO CONDITIONS ATTACHED TO APPROVAL

Rockingham Industrial Zone, WA (EPBC 2010/5337)

This decision to vary a condition of approval is made under section 143 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Approved action				
Person to whom the	Western Australian Land Authority ABN: 34 868 192 835 The development of 339 ha of land in Rockingham, WA, for industrial purposes (the Rockingham Industry Zone), [See EPBC Act referral 2010/5337].			
approval is granted				
Approved action				
Variation				
Variation of conditions of	The variation is:			
approval	Delete condition 14 attached to the approval dated 30 November 2011 and substitute with the condition specified below.			
	Delete 'DEC' in conditions 11, 12 and 13, and substitute with 'DPaW'.			
	Delete definition for 'recognised conservation organisation' in the approval dated 30 November 2011 and substitute with the definition (g) specified below. Also add the definition (h) specified below.			
	Add Attachment B to the approval dated 30 November 2011, as attached to this instrument.			
Date of effect	This variation has effect on the date the instrument is signed			
Person authorised to n	volto desision			
	liake decision			
name and position	Chana Caddaa			
	Shane Gaddes Assistant Secretary			
	Compliance and Enforcement Branch			
Signature	5. Gaddes 19 June 2014			

Condition attached to the approval

14. Offsets Management Plan

To protect the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan coastal Plain (TEC) the person taking the action must prepare and submit an Offsets Management Plan (OMP) for the **Minister's** approval. The person taking the action must not **commence construction** unless the **Minister** has approved the OMP. The OMP must be prepared in consultation with DPaW.

The OMP must include:

- a) The rehabilitation of a minimum of 18ha of the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan coastal Plain that requires active management in land managed by DPaW at other priority sites (as agreed by DPaW and the **Department**) in the Rockingham region. The rehabilitation must commence within 6 months of the commencement of **construction**.
- b) A research trial for the re-establishment of TEC in the onsite TEC re-establishment lot outlined in <u>Attachment B</u>, in accordance with the following requirements:
 - The method and deliverables of the research trial must be prepared in consultation with DPaW;
 - ii. The research trial must consider the existing TEC within the Conservation Area
 - iii. The research trial must commence within 12 months of the commencement of **construction** and must be undertaken for no less than five years:
 - The research trial must include an annual program for the monitoring and reporting.
 - v. Within 12 months of completing the research trial a report documenting the results of the trial must be submitted to DPaW and the **Department**.

If the **Minister** approves the OMP then the approved OMP must be implemented. The annual report referred to in condition 9 detailing performance against the plan must include the following information;

- Areas of the Rockingham Industry Zone cleared for development and revegetation;
- Areas of TEC cleared and areas of TEC recreated/rehabilitated and their protection arrangements; and
- Areas of the TEC rehabilitated at other occurrences of the TEC in the Rockingham region.

Definition attached to the approval

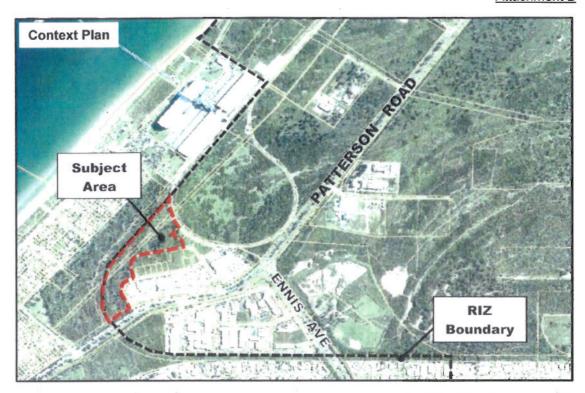
g) Recognised conservation organisation

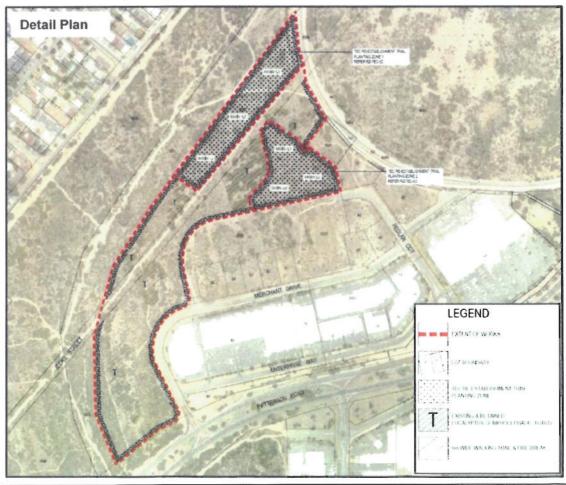
The WA Department of Parks and Wildlife (or any successor agency), or an alternative conservation organisation that has been approved in writing by the **Department**.

h) DPaW

The Western Australian Department of Parks and Wildlife or any successor agency.

Attachment B





APPENDIX 3

Notice of Variation to Conditions 2016 (EPBC 2010/5337)

VARIATION TO CONDITIONS ATTACHED TO APPROVAL

Rockingham Industrial Zone, WA (EPBC 2010/5337)

This decision to vary a condition of approval is made under section 143 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Approved action				
Person to whom the approval is granted	Western Australian Land Authority			
	ABN: 34 868 192 835			
Approved action	The development of 339 ha of land in Rockingham, WA, for industrial purposes (the Rockingham Industry Zone) [See EPBC Act referral 2010/5337]			
Variation				
Variation of conditions of approval	The variation is: Delete conditions 3, 9, 10 and 12 attached to the approval dated 30 November 2011 and substitute with the conditions specified below.			
	Delete Attachment A attached to the approval dated 30 November 2011 and substitute with Attachment A specified below.			
	Note: All other conditions including the definitions in the approval dated 30 November 2011 and variations dated 19 June 2014 remain unchanged.			
Date of effect	This variation has effect on the date the instrument is signed			
Person authorised to ma	ake decision			
Assistant Secretary Compliance & Enforcement Branch				
Signature	5. Caddes 9 May 2016			
Date of decision	9 May 2016			

Conditions attached to the approval

- 3. Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a compliance report on its website, and provide a copy of the compliance report to the Department in writing. The compliance report must address compliance with: each of the conditions of this approval; any management plans required under this approval; and whether outcomes and milestones required by these conditions and commitments made in management plans required under this approval have been met or are on track to being met. The compliance report must include any actual or potential contraventions, and must consider the Department's Annual Compliance Report Guidelines. Documentary evidence providing proof of the date of publication must be provided to the Department within 7 days after the compliance report is published. All compliance reports must remain on the website for the period this approval has effect. The person taking the action may cease preparing and publishing compliance reports required by this condition with written agreement of the Minister to do so.
- 9. Potential or actual contraventions of the approval conditions (including contravention with a commitment in a management plan) must be reported in writing / by email to the Department within 2 business days of the person taking the action becoming aware of the actual or potential contravention.

10. Conservation Area

To protect the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) and habitat for Black Cockatoos the person taking the action must establish a Conservation Area of at least 89.1 ha in the area designated as 'Conservation Area' on the map provided at Attachment A prior to the commencement of construction. The person taking the action must:

- (a) Include at least 19.5 ha of the TEC within the Conservation Area;
- (b) Prior to **commencement** of **construction**, provide the **Department** with written evidence that the Conservation Area will be protected and managed in perpetuity by a **recognised conservation organisation**;
- (c) Within five years of the date of this approval, vest management and ownership of the conservation area with a **recognised conservation organisation**.

12. Black Cockatoo Habitat

To protect the habitat for **Black Cockatoos**, the person taking the action:

- (a) Must not clear more than 830 Tuart trees (Eucalyptus gomphocephala) that are greater than 500 mm diameter at breast height (DBH) from within the project area of the Rockingham Industry Zone, designated as 'SEA Boundary' on the map provided at Attachment A. The person taking the action must ensure that no trees are cleared within the Conservation Area referred to in Condition 10. Within 12 months of the commencement of construction, the person taking the action must, in consultation with DPaW, plant in the revegetation area within the DPaW managed land at Rockingham Lakes Regional Park up to 4,980 Tuart seedling trees (Eucalyptus gomphocephala) at a ratio of 6 seedling trees for every tree greater than 500 mm DBH removed from the project area. The seedling trees must be planted at a density of 200-250 per hectare in cleared or degraded areas where Tuart density has previously been reduced. In consultation with the Department the person taking the action must ensure these seedling trees are protected in perpetuity.
- (b) Must, within 12 months of the **commencement** of **construction** commence a Tuart revegetation project as described below:

- If, after two years from the date of planting trees, a survival rate of at least 80% seedling trees is not achieved, all seedling trees that have not survived must be replaced within 12 months, and maintained to achieve a survival rate of at least 80% for at least a further three years;
- ii. The person taking the action must fund and manage the Tuart revegetation project in consultation with **DPaW** until such a time as management responsibility has been formally transferred to a **recognised conservation organisation**; and
- iii. The revegetation project must be at least partially undertaken in the Rockingham Lakes Regional Park. If there is insufficient appropriate land in the Rockingham Lakes Regional Park to receive the required revegetation, the person taking the action, in consultation with **DPaW** and the **Department**, must find alternative locations to undertake the revegetation within the Rockingham region.
- (c) Must submit a **Black Cockatoo** Habitat Revegetation Plan (BCHRP) for the **Minister's** approval that describes how approval condition 12(a) and 12(b) will be implemented. The plan must be prepared in consultation with the DPaW. The person taking the action must not **commence construction** unless the **Minister** has approved the BCHRP.

The BCHMP must address the following matters:

- i. The location of the revegetation areas;
- ii. Planting methodology, including soil preparation;
- iii. The flora species that will be planted;
- iv. A monitoring program (including how survival rates and success criteria will be determined);
- v. Construction of a temporary fence around the perimeter of the revegetation areas;
- vi. Management of weeds and feral animals in the revegetation area;
- vii. How the performance of the plan will be reported to the Minister: and
- viii. Who will be responsible for implementing all aspects of the plan.

The person taking the action must implement the approved BCHMP.

Attachment A



APPENDIX 4

Notice of Variation to Conditions December 2016 (EPBC 2010/5337)

VARIATION TO CONDITIONS ATTACHED TO APPROVAL

Rockingham Industrial Zone, WA (EPBC 2010/5337)

This decision to vary a condition of approval is made under section 143 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Approved action				
Person to whom the approval is granted	Western Australian Land Authority			
•	ABN: 34 868 192 835			
Approved action	The development of 339 ha of land in Rockingham, WA for industrial purposes (the Rockingham Industry Zone) [See EPBC Act referral 2010/5337]			
Variation				
Variation of conditions of approval	The variation is: Delete condition 10(c) attached to the approval and substitute with condition 10(c) specified below.			
Date of effect	This variation has effect on the date the instrument is signed			
Person authorised to ma	ake decision			
Name and position Monica Collins Assistant Secretary Compliance & Enforcement Branch				
Signature	Misia.			
Date of decision	/3 December 2016			

Conditions attached to the approval

10. Conservation Area

To protect the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain (TEC) and habitat for Black Cockatoos the person taking the action must establish a Conservation Area of at least 89.1 ha in the area designated as 'Conservation Area' on the map provided at Attachment A prior to the commencement of construction. The person taking the action must:

(c) By 30 November 2021, vest management and ownership of the conservation area with a **recognised conservation organisation**.

APPENDIX 5 2014 to 2019 Aerial Photography

December 2014



November 2015



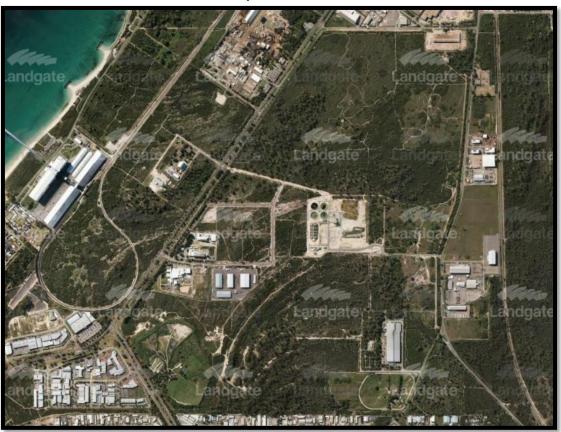
March 2016



June 2017



September 2017



July 2018



April 2019



May 2020



APPENDIX 6 Groundwater Monitoring Report

Development WA

Rockingham Industrial Zone

Groundwater Monitoring Report 2015-2019



April 2020

Report ref. J5943I





DISCLAIMER

This document is published in accordance with and subject to an agreement between JDA Consultant Hydrologists ("JDA") and the client for whom it has been prepared ("Client"), and is restricted to those issues that have been raised by the Client in its engagement of JDA. It has been prepared using the skill and care ordinarily exercised by Consultant Hydrologists in the preparation of such documents.

Any person or organisation that relies on or uses the document for purposes or reasons other than those agreed by JDA and the Client without first obtaining a prior written consent of JDA, does so entirely at their own risk and JDA denies all liability in tort, contract or otherwise for any loss, damage or injury of any kind whatsoever (whether in negligence or otherwise) that may be suffered as a consequence of relying on this document for any purpose other than that agreed with the Client.

JDA does not take responsibility for checking any landscape and engineering plans attached to this report for accuracy or consistency with this report.

QUALITY ASSURANCE

The JDA quality control system has been in place since 1997 and meets the requirements of AS/NZS ISO 9001:2008. JDA is committed to maintaining and improving the quality management system.

CONTACT DETAILS

 JDA Consultant Hydrologists
 Phone: +61 (0) 8 9388 2436

 PO Box 117
 Fax: +61 (0) 8 9381 9279

 Subiaco, WA, 6904
 Email: info@jdahydro.com.au

 Australia
 Website: www.jdahydro.com.au

Document Version No.	Issue Date
J5943I	30/4/2020

	Name	Signature	Date
Author	Sri Adiyanti	dami.	30/04/2020
Checked by	Mathew Yan	Mottel	30/04/2020
Approved by	Jim Davies	J. R. Dives	30/04/2020



CONTENTS

1.	INTRODUCTION	1
	1.1 Post-Development Monitoring Schedule and Reporting	1
2.	MONITORING PROGRAM AND LOCATIONS	2
	2.1 GROUNDWATER	2
	2.1.1 Groundwater Levels	2
	2.1.2 Groundwater Quality	2
	2.2 MONITORING CRITERIA AND CONTINGENCY PLAN	3
3.	MONITORING DATA AND ANALYSIS	4
	3.1 RAINFALL	4
	3.2 GROUNDWATER	4
	3.2.1 Groundwater Levels	4
	3.2.2 Groundwater Quality	4
4.	CONCLUSIONS AND RECOMMENDATIONS	7
	4.1 CONCLUSIONS	7
5.	REFERENCES	8

J5943I 30 April 2020 ii



LIST OF TABLES

- 1. Groundwater Monitoring Site Details
- 2. Monitoring Criteria and Contingency Plan

LIST OF FIGURES

- 1. Locality Map
- 2. Monitoring Bore Locations
- 3. Annual and Monthly Average Rainfall
- 4. Groundwater Levels
- 5. Groundwater EC
- 6. Groundwater pH
- 7. Groundwater TN Concentration
- 8. Groundwater TKN Concentration
- 9. Groundwater NO_x-N Concentration
- 10. Groundwater NH₃-N Concentration
- 11. Groundwater TP Concentration
- 12. Groundwater PO₄-P Concentration
- 13. Groundwater Arsenic (As) Concentration
- 14. Groundwater Copper (Cu) Concentration
- 15. Groundwater Zinc (Zn) Concentration

APPENDICES

- A. JDA Lithological Logs
- B. Post-Development (2015-2019) Groundwater Quality



1. INTRODUCTION

The Rockingham Industrial Zone (RIZ) is located in the City of Rockingham and is approximately 48 km southwest of Perth CBD and 32 km north of Mandurah (Figure 1). The RIZ (approximately 1150 ha) is the last major landholding in the Perth Metropolitan Region which is designed for heavy industrial use. It is well situated with access to deep water port facilities, road, rail and energy resources.

Within the RIZ is the Water Corporation East Rockingham Wastewater Treatment Plant (ERWWTP), which has a 91 ha conservation area located immediately south of it (Figure 2).

A Strategic Environmental Assessment (Coffey Environments, 2009) was prepared for development of the RIZ and was approved by the Minister for the Environment in 2011 and Commonwealth Department of Sustainability, Environment, Water, Populations and Communities (SEWPAC) under the *Environmental Protection and Biodiversity Conservation Act*, 1999. As a condition of approval, a Water Management Strategy (Hyd2o, 2013) was prepared to ensure an integrated total water cycle management approach is applied in the development, aiming to protect and enhance wetland areas and threatened ecological communities (Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain). The WMS included a post-development groundwater monitoring program which is described below.

1.1 Post-Development Monitoring Schedule and Reporting

The RIZ Water Management Strategy (WMS) (Hyd2o, 2013) presents a post-development groundwater monitoring program that outlines the requirement for a long-term monitoring of groundwater levels and quality in the site. It specifies monitoring to be conducted monthly for groundwater levels and quarterly for groundwater quality, following construction for a period of five years.

JDA commenced the post-development monitoring in February 2015 and has now completed the required 5 year monitoring program.



2. MONITORING PROGRAM AND LOCATIONS

2.1 Groundwater

2.1.1 Groundwater Levels

Aim: To ensure the integrity of wetlands, groundwater dependent ecosystems and Cockburn Sound

are maintained.

<u>Method</u>: Levels were monitored in 10 groundwater monitoring bores (ERGM bores) and 1 DWER monitoring bore as shown in Figure 2 and detailed in Table 1. Static groundwater levels were measured by JDA field staff using an electrical depth. Bore logs are provided in Appendix A.

Pre-development groundwater levels and quality were historically monitored in a series of 15 shallow monitoring bores (ERGM series) installed on 18 April 2005. All bores consisted of 75mm PVC with end caps and slotted below the water table. A site visit in early 2015 established that eight bores were still in existence from the original series. Two additional bores, i.e. MR1 and ERGM17, were installed in March and July 2015, respectively, by drill rig using a hollow stem auger. These additional bores (MR1 and ERGM17) consist of 50mm PVC with end caps and slotted below the water table. Bore MR1 was destroyed in May 2017 and was reinstated as MR1R in June 2017, with the same construction details as MR1.

<u>Frequency</u>: Levels in ERGM1 to ERGM15 bores were measured quarterly since 20 April 2015, whilst levels in ERGM17 since July 2015 and MR1 since April 2015.

2.1.2 Groundwater Quality

<u>Aim</u>: To assess the performance of the integrated water management strategy, particularly the effect of the non-structural source controls on post-development groundwater quality.

Samples were collected from the 10 groundwater monitoring bores (ERGM bores) by JDA field staff, for submission to a NATA-accredited laboratory for the following parameters analysis:

Nutrient parameters:

- Electrical Conductivity (EC),
- pH,

Method:

- Total Phosphorus (TP),
- Total Nitrogen (TN),
- Nitrogen in nitrous oxides (NO_x-N),
- Total Kjeldahl Nitrogen (TKN),
- Total Phosphorus (TP),
- Filterable Reactive Phosphorus (FRP or PO₄-P).

Heavy Metals parameters:

- Arsenic (As),
- Cadmium (Cd),
- Copper (Cu),
- Nickel (Ni),
- Lead (Pb),
- Zinc (Zn).

In addition, EC and pH were also measured on site by JDA staff.



All sampling was conducted in accordance to the guidelines set out by the Australian/New Zealand Standard (AS/NZS) 5667.11: 1998 (R2016) "Water Quality - Sampling Part 11: Guidance on sampling of groundwater". Groundwater samples were field-filtered.

All groundwater data collected was stored in JDA ESdat database, with results provided in Appendix B.

Frequency: Sampling in ERGM1 to ERGM15 was completed quarterly since March 2015, ERGM17 since August 2015, and MR1 since May 2015. Field measurement of pH and EC in ERGM bores was also conducted on the same occasion when sampling was completed.

TABLE 1: GROUNDWATER MONITORING SITE DETAILS

Bore ID	GDA 2020 (MGA 50)		Top of Casing	Natural Surface	Total Depth
Bore ib	Easting	Northing	Elevation	Elevation (mAHD) ²⁾	(mbTOC) ²⁾
ERGM1	383827	6430509	4.62	3.92	6.39
ERGM2	385207	6431027	4.58	3.93	6.35
ERGM5	383005	6429298	4.79	4.10	6.41
ERGM7	384343	6428949	3.54	2.90	5.81
ERGM12	383880	6429397	3.79	3.27	6.33
ERGM13	383947	6429361	4.28	3.62	6.40
ERGM14	384038	6429292	4.43	3.74	6.41
ERGM15	384159	6429166	3.67	3.10	6.37
ERGM17	382211	6429333	5.23	4.63	5.90
MR1/MR1R	385565	6428606	4.85	4.26	6.00
T230(O)	384863	6428725	6.73	6.08	35.00

¹⁾ mAHD: metres Australian Height Datum

2.2 Monitoring Criteria and Contingency Plan

The contingency plan for breaches of the groundwater level and quality monitoring is extracted from Table 8 of the Water Management Strategy (Hyd2o, 2013) and is set out in Table 2. The plans and actions are for the prevention of any adverse impact arising from breaches of the criteria (see Section 3.2.2), to ensure the integrity of wetlands, groundwater dependent ecosystems and Cockburn Sound are maintained.

TABLE 2: MONITORING CRITERIA AND CONTINGENCY PLAN

Monitoring Type	Criteria for Assessment	Criteria Assessment Frequency	Contingency Action
Groundwater Level	Groundwater levels not to be lower than 0.5mAHD	After each monitoring occasion	 Assess if an isolated, development area or regional occurrence. Determine if due to the development or other external factors (including groundwater abstraction). Resample if necessary. Perform appropriate contingency action as required (including ERWWTP as a source of groundwater). Record and report in the annual report any breach and action taken. Stormwater drainage system. Perform maintenance as required.
Groundwater Quality	Nutrient and heavy metals concentrations in shallow bores to be similar to or better than predevelopment monitoring.	Annual review of water quality targets	 Identify potential point sources from analysing water quality results from each groundwater bore. Visit potentially contaminating sites to investigate the potential point source. Remove the point source. Consider stormwater education/awareness program for industry. Review operational and maintenance practices. Consider modifications to the stormwater system. Consider initiation of community-based projects.

²⁾ mbTOC: metres below natural surface



3. MONITORING DATA AND ANALYSIS

3.1 Rainfall

Rockingham has a Mediterranean climate with warm dry summers and cool wet winters.

Figure 3 shows the monthly and annual rainfall recorded at the Bureau of Meteorology (BoM) Halls Head/Mandurah Park Station (January 1950 to December 2001) and Anketell Station (January 2002 to December 2019). Note that the Halls Head Station ceased operation in October 2017, and Anketell starts in January 2002.

The long-term (1950 to 2019) average annual rainfall is 834 mm. The average has slightly decreased by 3% since 1975 to 811 mm, consistent with the general decline in rainfall in southwest Western Australia (DoW, 2015).

The monthly average pan evaporation (Figure 3) is recorded at the BoM Perth Airport Station, with annual average of 2250 mm.

3.2 Groundwater

3.2.1 Groundwater Levels

Recorded groundwater levels for ERGM and DWER bores are shown on Figure 4, showing both pre- and post-development groundwater levels. All post-development groundwater levels satisfy the assessment criteria (>0.5 mAHD) and the levels are comparable to pre-development levels.

A steady increase in winter and summer groundwater levels in 2016, 2017, and 2018 compared to 2015 levels are consistent with above average annual rainfall received in those years (Figure 3 and the middle panel of Figure 4). In 2019, the groundwater levels decrease due to less than average annual rainfall. This trend is also consistent with levels observed in nearby DWER bore T230(O). This suggests that groundwater levels are predominantly influenced by rainfall, rather than water abstraction or development.

3.2.2 Groundwater Quality

Groundwater quality monitoring results for nutrients and heavy metals are shown in Figures 5 to 12 and Figures 13 to Figures 18, respectively.

To illustrate the central tendency of the data and seasonal variability of each groundwater quality parameter, box plots of statistics (with outliers presented, if any) and time-series plots are provided in Figures 5 to 18. Detailed results are presented in Appendix B.

Water quality monitoring results were compared against pre-development concentrations as outlined in the Water Management Strategy (Hyd2o, 2013) for bores ERGM1, ERGM2, ERGM5 and ERGM7. For the remainder of bores where pre-development data is unavailable, results are compared to the existing range of data from available bores.

ANZECC & ARMCANZ have guideline trigger values for South-western Western Australia for freshwater lowland river ecosystems. Whilst these values are not directly applicable to the Study Area, they are included as guide for comparison as follows:

ANZECC & ARMCANZ (2000a) Table 3.3.6 and 3.3.7: Guideline trigger values for South-western
Western Australia slightly disturbed freshwater lowland river ecosystems (for pH and nutrients
parameters). Note that the guideline for EC is not applicable for coastal area.



 ANZECC & ARMCANZ (2000) Table 3.4.1: Guideline trigger values for toxicant applied to typical slightly to moderately disturbed ecosystems for 95% level of protection (for heavy metals).

Results of interest are described below.

Electrical Conductivity (EC), Figure 5 shows:

- Groundwater is generally fresh to brackish with EC of less than 2000 μS/cm, except ERGM7 which is saline with average 5700 μS/cm. Sodium and chloride are the dominant cation and anion due to the site proximity to seawater.
- Post-development EC levels are within the pre-development range in majority of bores, except for ERGM2 and ERGM5 which are only slightly above but still within the brackish classification.
- There is no indication of any trend in EC levels in any bore during the 2015-2019 reporting period pH, Figure 6 shows:
- Groundwater pH measured in all bores is neutral with pH levels ranging between 7 and 8.
- Post-development pH levels are generally within the pre-development range in all bores.
- There is no indication of any trend in pH levels in any bore during the 2015-2019 reporting period.

Total Nitrogen (TN), Total Kjeldahl Nitrogen (TKN), Nitrogen in Nitrogen Oxides (NO_x-N) and Ammonia (NH₃-N), Figures 7 to 10 show:

- Total Nitrogen (TN) accounts for organic and inorganic in all forms: dissolved inorganic (nitrogen in nitrogen oxides NO_x-N, ammonia NH₃-N), dissolved organic nitrogen and particulates. TKN is particulate and dissolved organic-bound nitrogen (which can be result from detritus) and ammonia. As all samples were field-filtered, TKN is essentially dissolved organic-bound and ammonia.
- Post-development TN concentrations shown in Figures 7 to 9 are within the pre-development range for ERGM1, ERMG2 and ERMG7, and exceeded in ERGM5. Concentrations measured in ERGM17 are significantly higher for reasons unknown.
- Figure 7 shows majority of bores have measured concentrations within the ANZECC trigger value for lowland river ecosystem (1.2 mg/L) except for ERGM5, ERGM7 and ERGM17.
- Figure 9 shows bores ERGM5 and ERGM17 contain high concentration of NO_x-N (and higher proportion to TN) compared to other bores, which exceed the ANZECC trigger value of 0.15 mg/L. This could be due to nitrate (NO₃-) influx from seawater which is naturally high in nitrate. Also noticeable is an increasing trend in ERGM17 of NO_x-N concentration since 2018.
- There is an indication of increasing trend of TN and NO_x-N concentrations in ERGM17 since 2018. There is no indication of any trend in nitrogen levels in the rest of the bores during the 2015-2019 reporting period.

Total Phosphorus (TP) and Filterable Reactive Phosphorus (FRP or PO₄-P), Figures 11 and 12 show:

- Total Phosphorus (TP) accounts for all phosphorus species, including dissolved inorganic phosphorus (FRP), dissolved organic phosphorus, particulate organic and inorganic phosphorus. As the samples were field-filtered, the difference between the measured TP and FRP is the dissolved organic phosphorus.
- Post-development TP concentrations shown in Figure 11 are within the pre-development range, except for ERGM7. Bores ERGM7 and ERGM15 exceed the ANZECC trigger value for low river ecosystem (0.065 mg/L) with bores ERGM12 to ERGM14 similar to the guideline value.



- Comparison between Figures 11 and 12 indicate that inorganic dissolved phosphorus forms the majority
 of total phosphorus.
- There is no indication of any trend in phosphorus levels in all bores during the 2015-2019 reporting period.

Heavy Metals (Arsenic, Cadmium, Copper, Nickel, Lead and Zinc), Figures 13 to 15 show:

- Figure 13 shows that Arsenic (As) concentrations in ERGM2 increased in 2018 and 2019 and exceeded the ANZECC trigger value for 95% level of protection (0.024 mg/L), but was within pre-development range. The concentrations in other bores are less than the trigger value.
- Figure 14 shows that Copper (Cu) in ERGM5, ERGM7, and ERGM17 in February 2019 exceeded the ANZECC trigger value (0.0014 mg/L), but in the next monitoring events the levels were all less than the trigger value. The concentrations in other bores are less than the trigger value and within predevelopment range.
- Figure 15 shows that Zinc (Zn) in ERGM2 and ERGM12 exceeded the trigger value (0.008 mg/L) in February 2019 and November 2016, but in the next monitoring events the levels were all less than the trigger value. The concentrations in other bores are less than the trigger value and within predevelopment range.
- Cadmium (Cd) and Lead (Pb), concentrations in all bores are equals to or less than the detection limits (≤0.0001 mg/L and ≤ 0.001 mg/L, respectively), details provided in Appendix B;
- Nickel (Ni) concentrations in all bores are equal to or less than the detection limit (≤0.001 mg/L), except ERGM7 in November 2016 (0.003 mg/L), details provided in Appendix B;



4. CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

Monitoring of groundwater levels and quality has been completed (2015 - 2019), in accordance with the Rockingham Industrial Zone Water Management Strategy (Hyd2o, 2013).

JDA Concludes:

- Monitoring of post-development groundwater levels satisfy the assessment criteria of >0.5 mAHD.
 Groundwater levels are predominantly influenced by rainfall, rather than water abstraction or development.
- Post-development groundwater EC and pH levels are less than or comparable to pre-development level and the ANZECC trigger guideline for lowland river ecosystem.
- Post-development groundwater nutrients in majority of monitoring bores are less than pre-development levels, except TN and NO_x-N concentrations in bore ERGM17 indicating an increasing trend, and TP concentration in bores ERGM7 and ERGM15. These increases were investigated further with cause unknown.
- Post-development groundwater heavy metals are generally less than the detection limits (hence less than the ANZECC trigger values for toxicant at slightly to moderately disturbed ecosystems for 95% level of protection), except for Arsenic in ERGM2 which is similar to pre-development levels.
- Overall the 5 years of monitoring indicates parameters are generally within the pre-development range and no further monitoring is required.



5. REFERENCES

Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand, (2000). *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*, National Water Quality Management Strategy, October 2000.

Australian/New Zealand Standard (AS/NZS) 5667.6 (1998). Water Quality - Sampling Part 6: Guidance on sampling of rivers and streams. (AS/NZS 5667.6:1998).

Australian/New Zealand Standard (AS/NZS) 5667.11 (1998) Water Quality - Sampling Part 11: Guidance on sampling of groundwater. (AS/NZS 5667.11:1998).

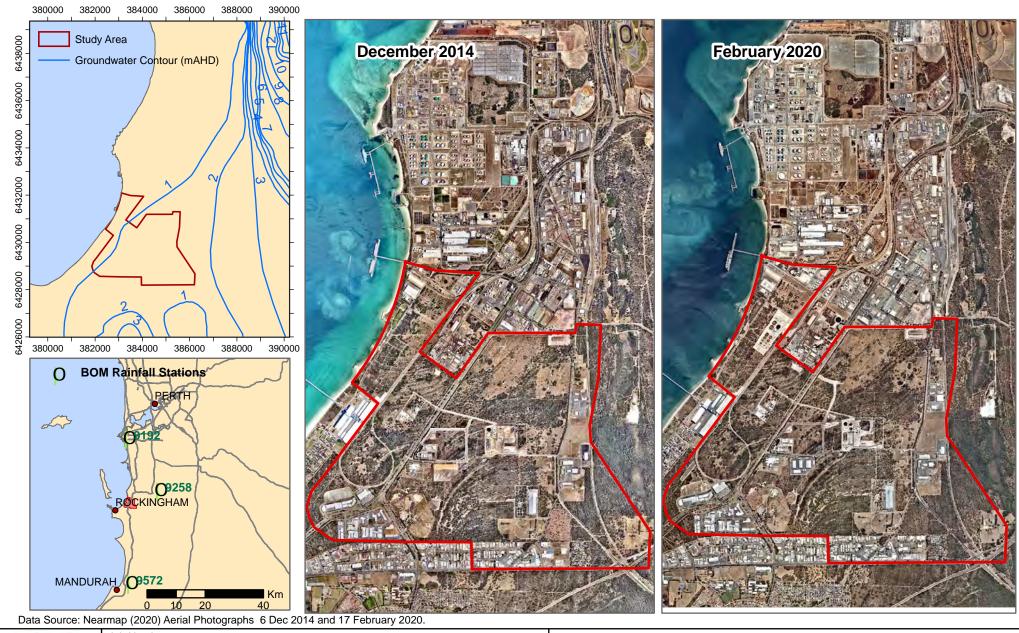
Bureau of Meteorology - BOM (2020). Perth Daily weather observations (rainfall from Mandurah station 9572, Anketell station 9258 and evaporation from Perth Airport station 009021).

Hyd2o (2013). Rockingham Industry Zone: Water Management Strategy, prepared for Landcorp, December, 2013.

JDA Consultant Hydrologists (2006). *East Rockingham Industrial Park (IP14 Area): Groundwater Hydrology*. JDA Ref. J3477g, dated 2 November 2006, for Landcorp.

Nearmap (2020). Digital imagery.

FIGURES





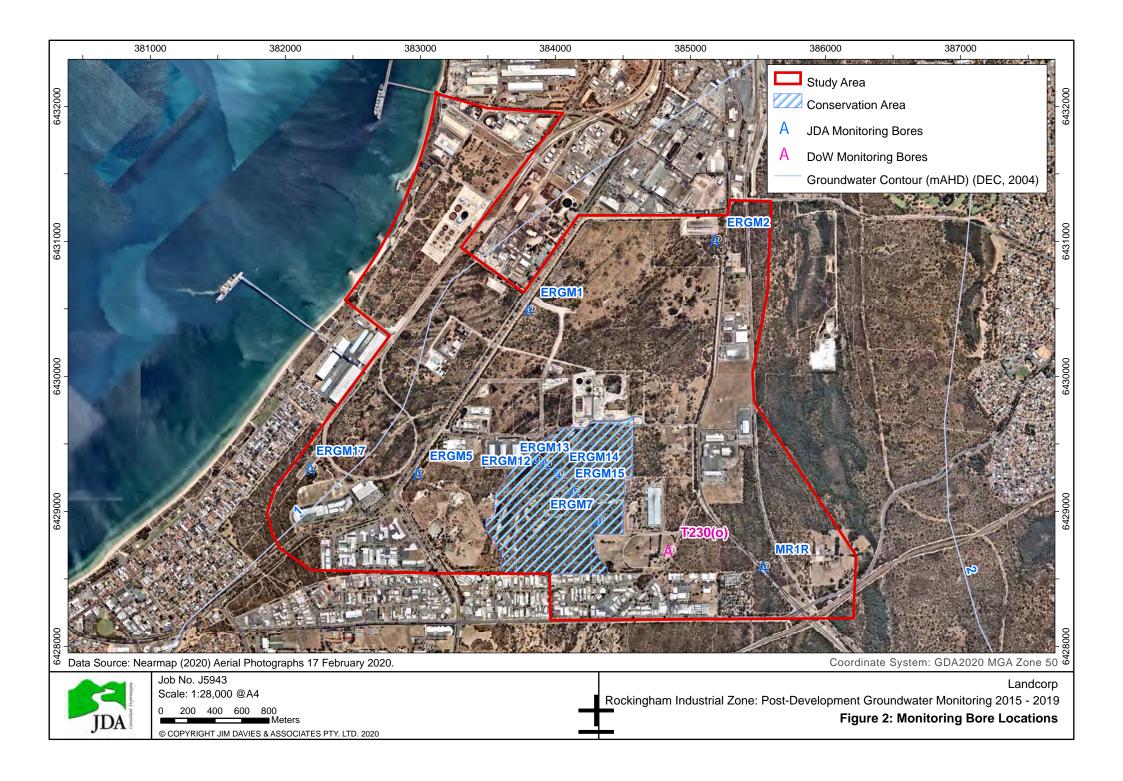
Job No. J5943

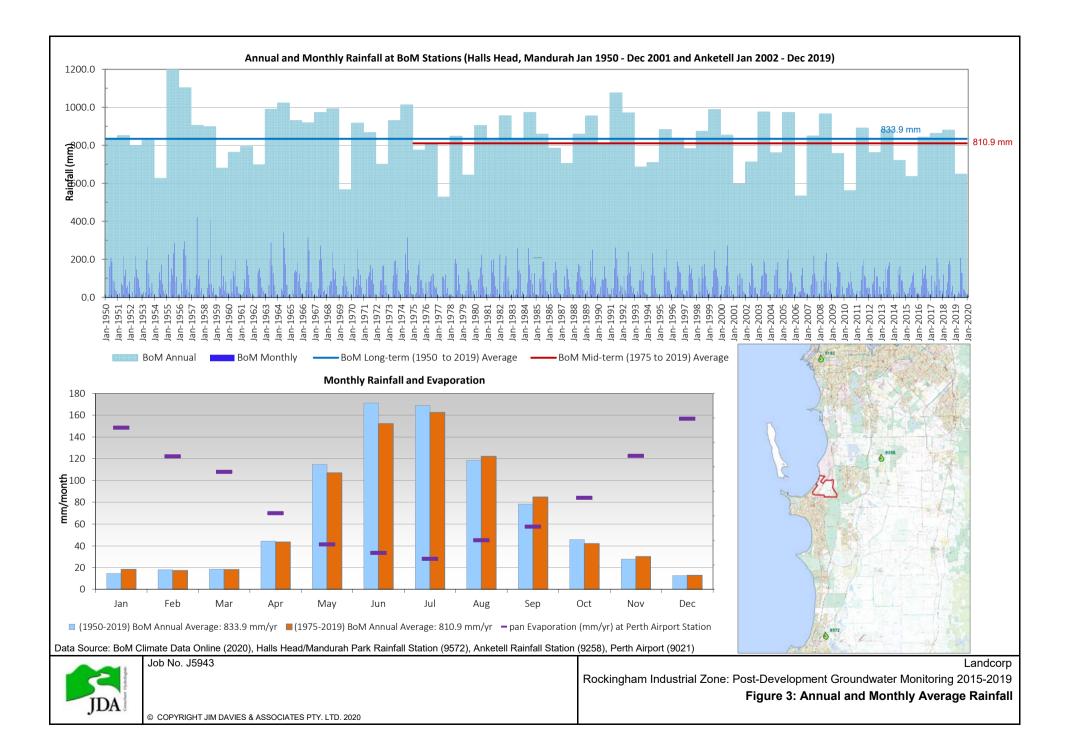
Rockingham Industrial Zone: Post-Development Groundwater Monitoring 2015 - 2019

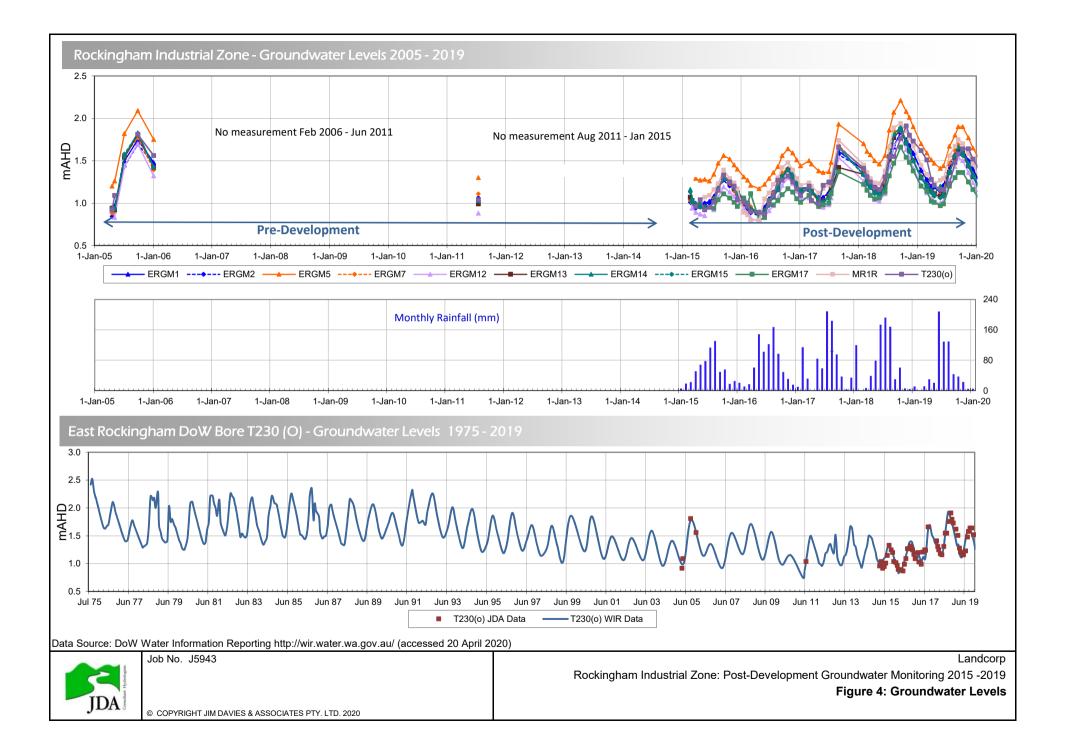
Figure 1: Locality Map

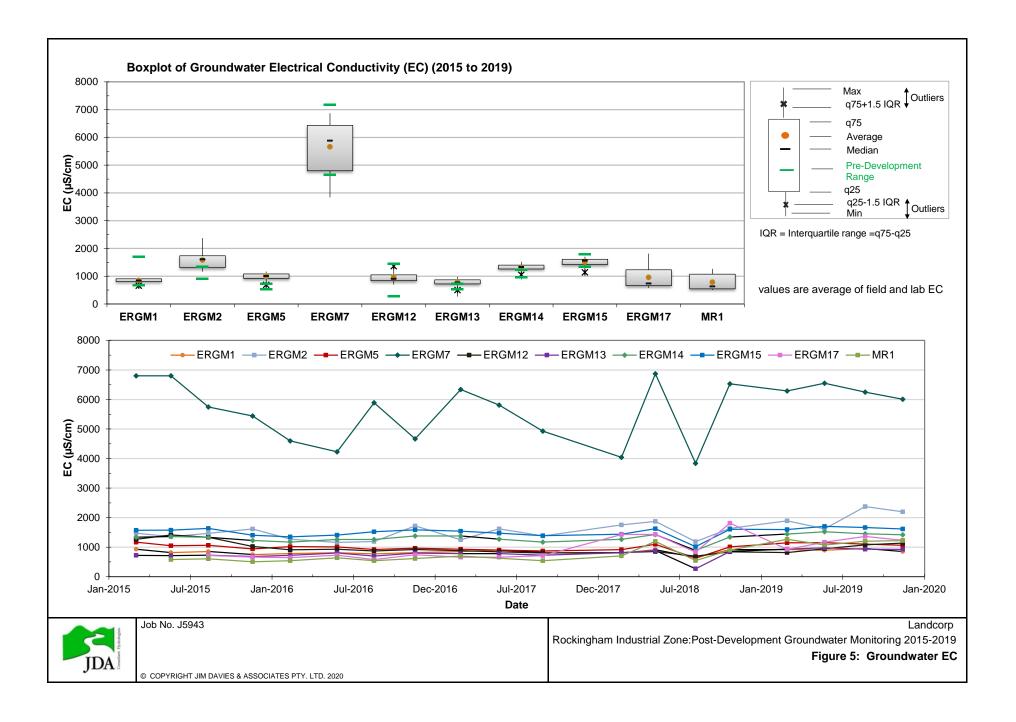
Landcorp

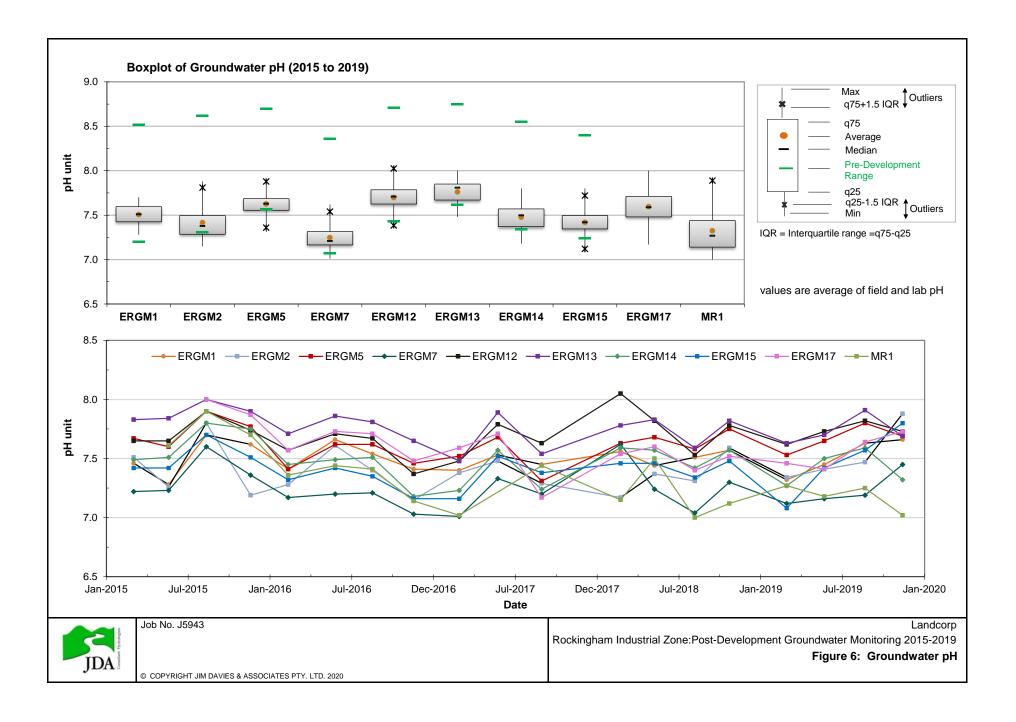
© COPYRIGHT JIM DAVIES & ASSOCIATES PTY. LTD. 2020

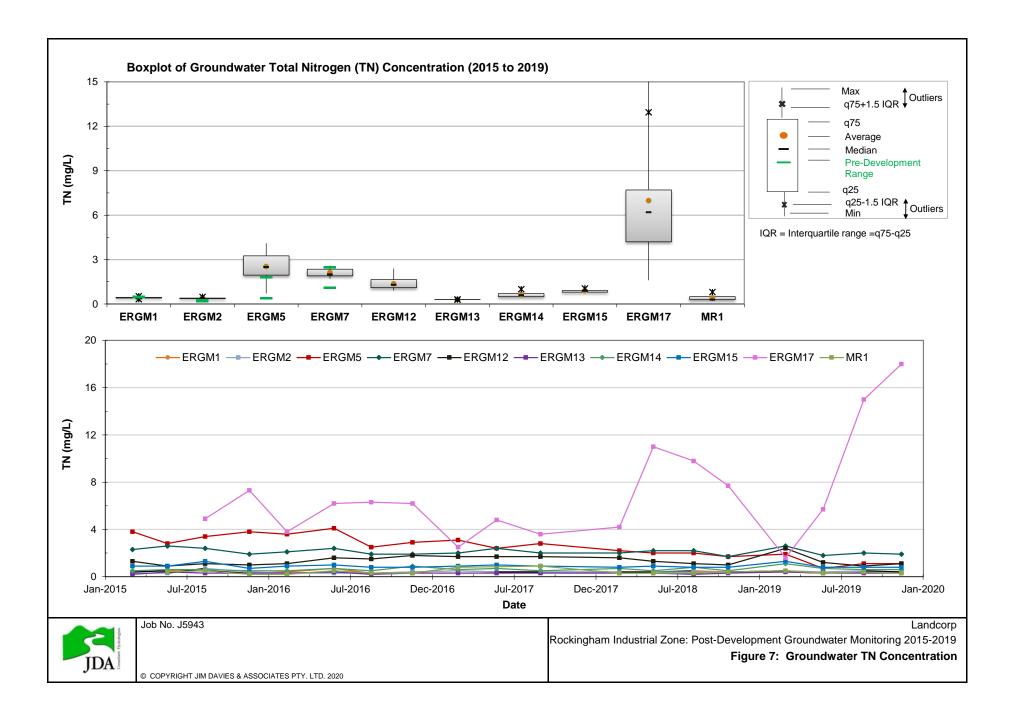


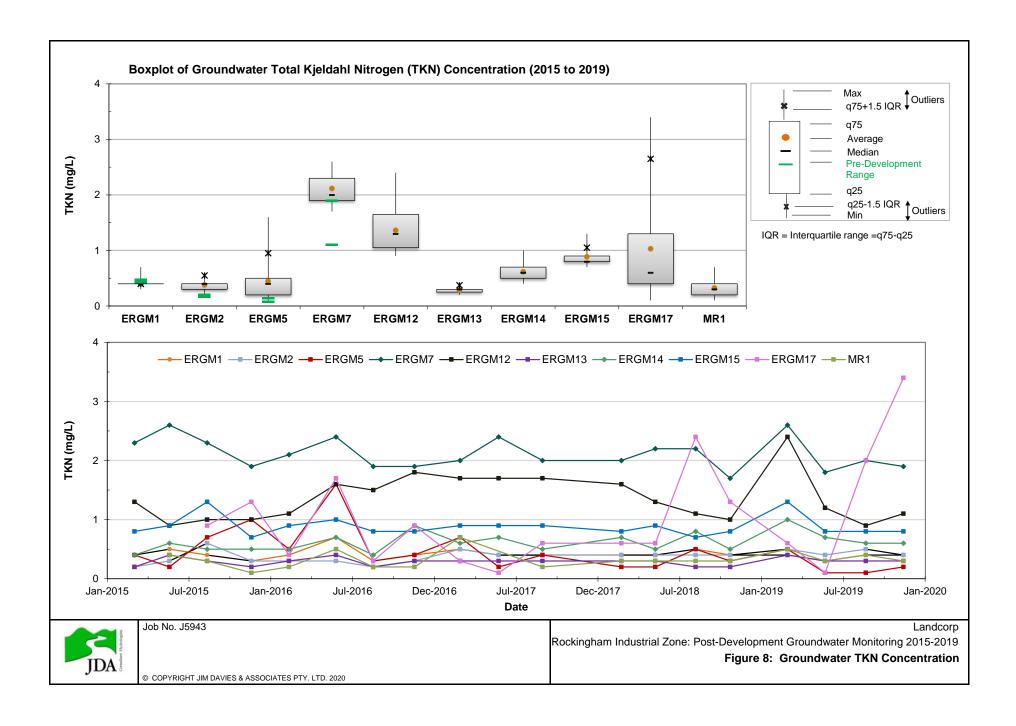


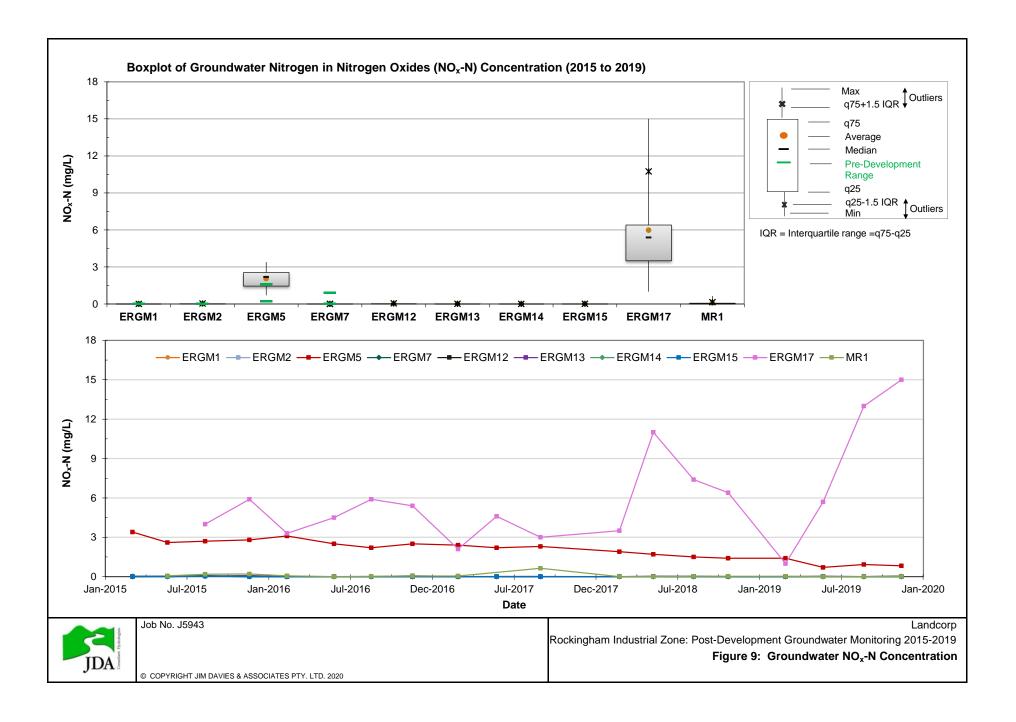


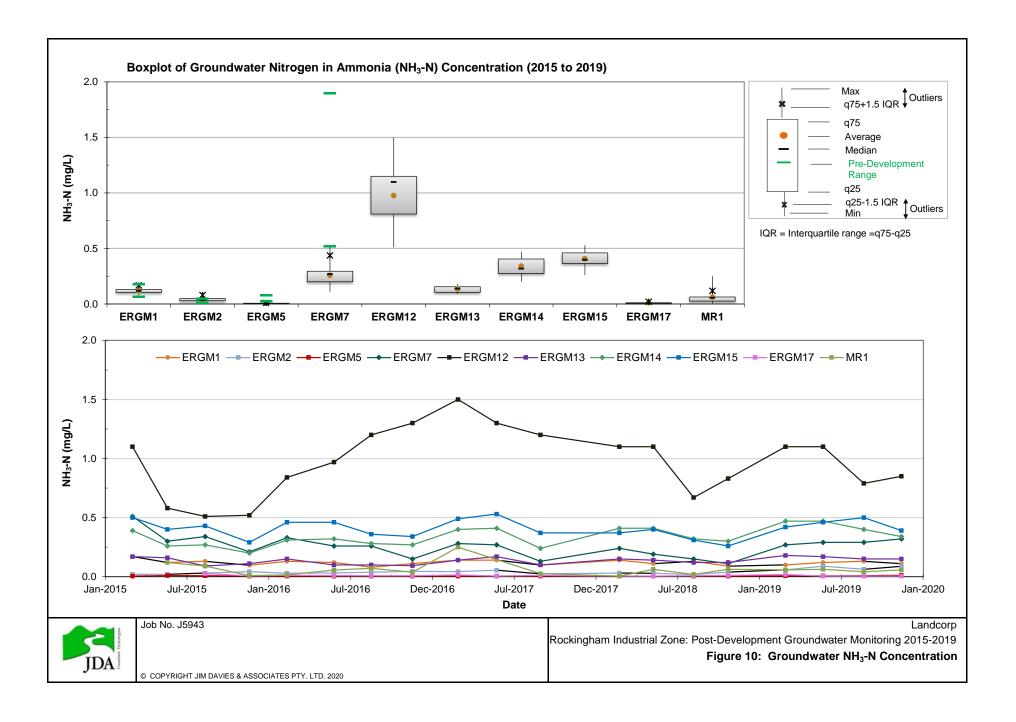


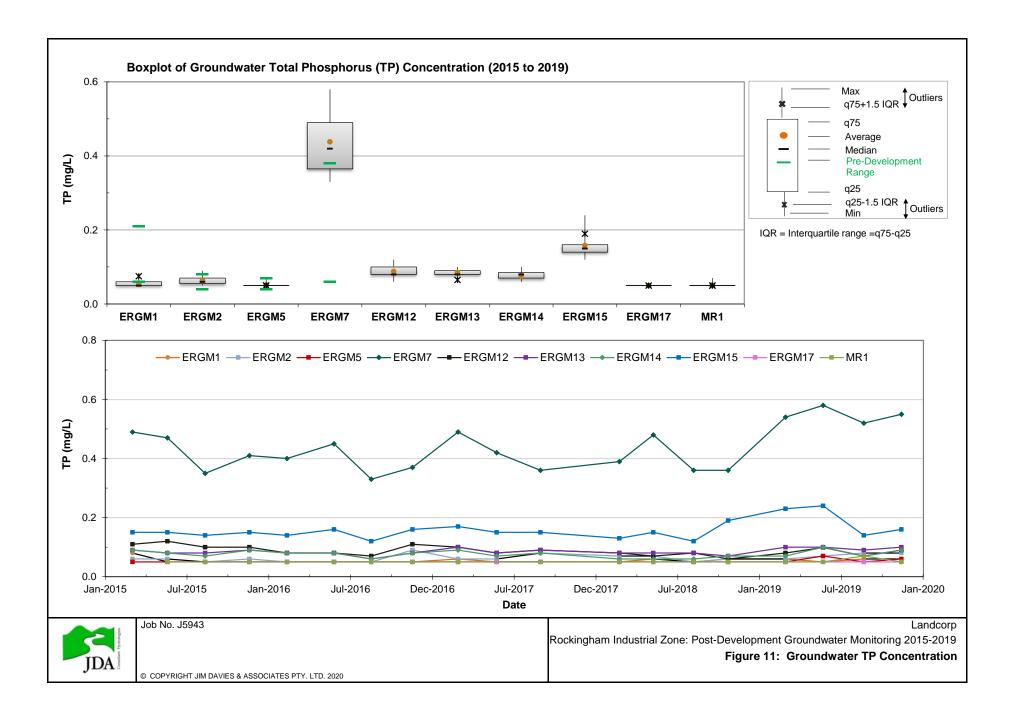


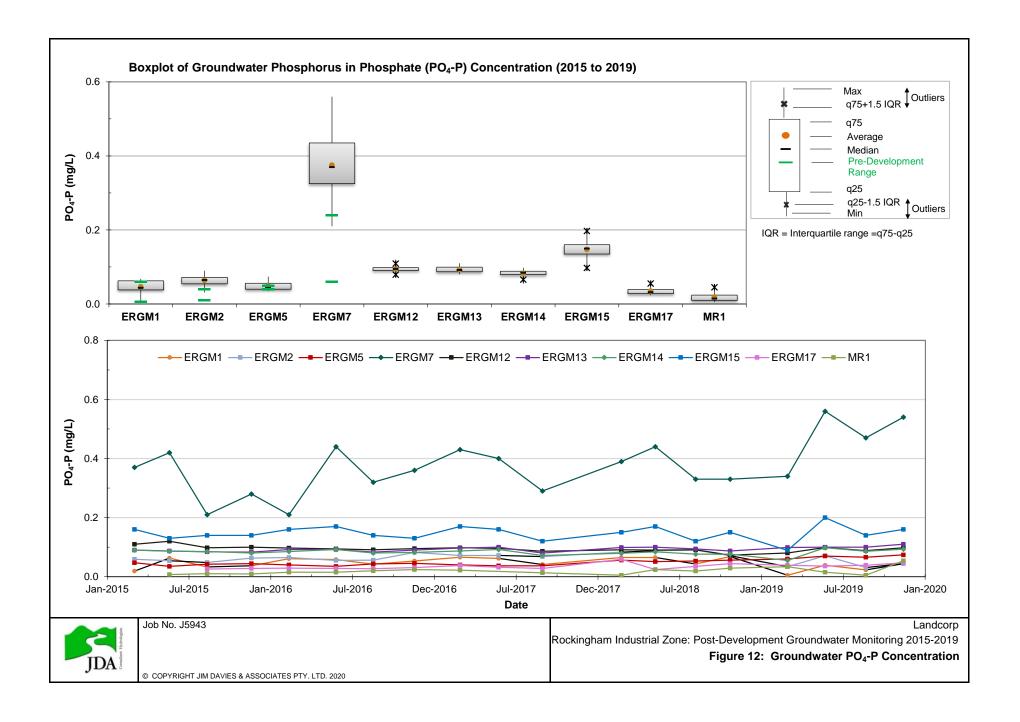


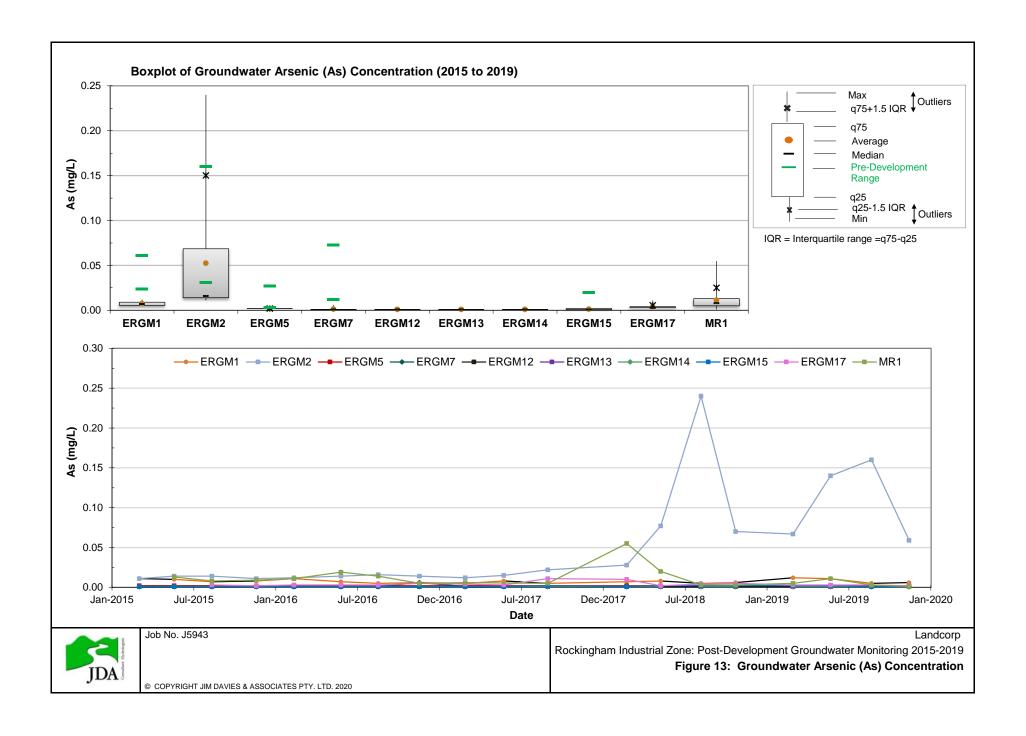


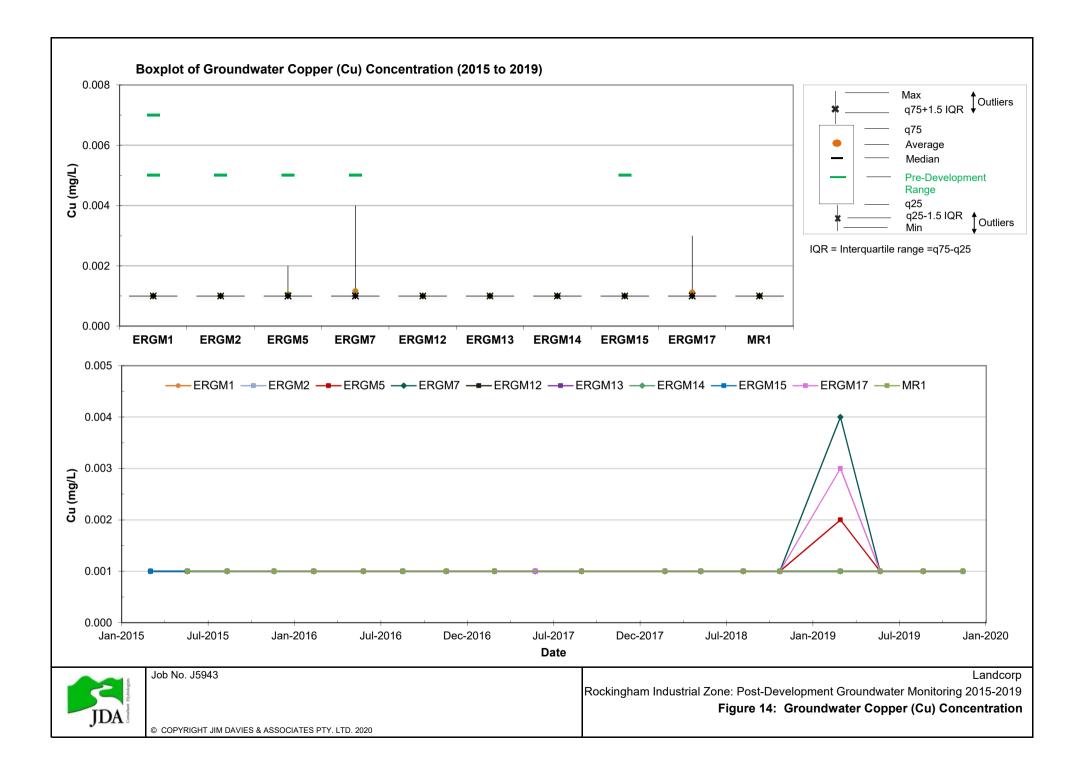


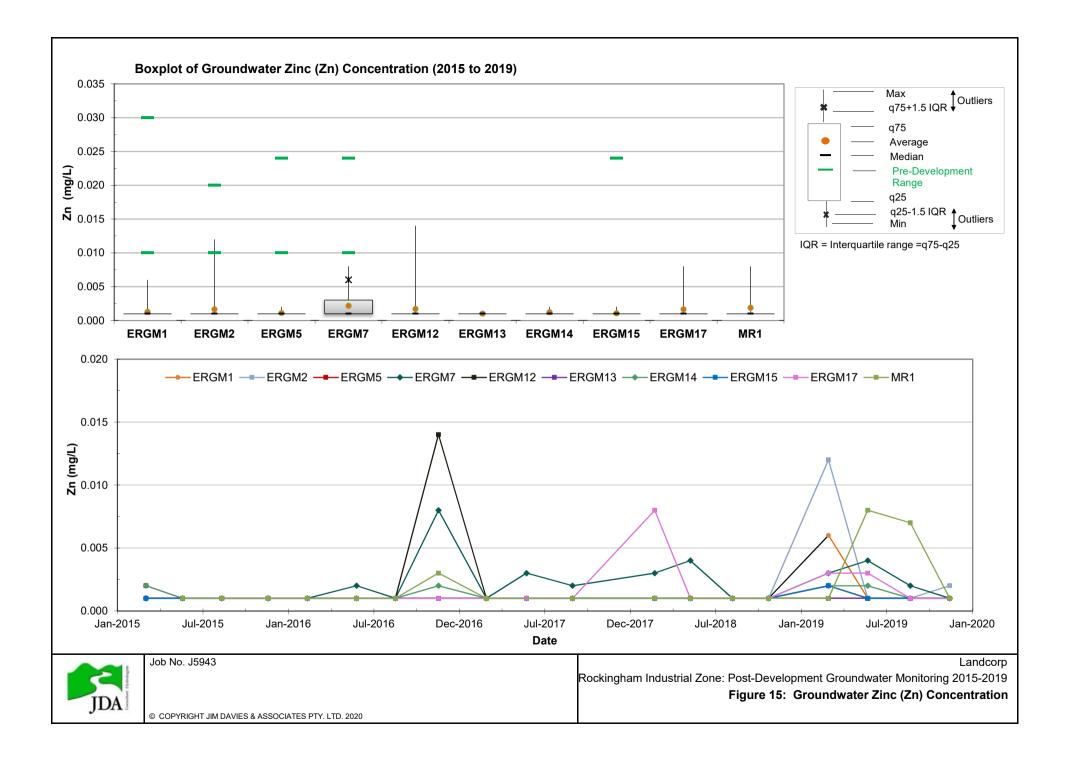












APPENDIX A

JDA Lithological Logs



LITHOLOGICAL LOG

 Client:
 Landcorp
 J5943

 Project:
 Rockingham Industrial Area
 Hole commenced:
 27/03/2015

 Bore location:
 385568/6428611
 Hole completed:
 27/03/2015

 Datum:
 mAHD
 Logged by:
 BK

 Bore Name:
 MR1
 Total Depth:
 5.20 mbgl

 Drill type:
 Hollow Auger
 R.L. TOC:
 4.85 mAHD

Drill type Hole dia	e: Hollow Aug meter: 50mm	jer				R.L. TOC: Natural Surf	ace: 4.261 m	10D	
Depth (m)	BORE CONSTRUCTION	GRAPHICAL LOG	LITHOLOGY	COLOUR	GRAIN SIZE	SORTING	GRAIN SHAPE	MOISTURE	OTHER
-	↑		Sand	Brown	F-M	М	Subr	0	
]									
5m									
_	Sand								
0m									
=	50mm PVC			Cream					
5m	\$0m								
_	†								3.0m
]									Limestone chunks 1.0 to 3.0m
Om _									chunks
									nestone
5m									ij
1									
0m									
	otted								
	Gravel 50mm Slotted								
.5m	20			Brown			Suba	Moist	
4								Saturated	
.0m								Suturueu	
]									
5m									
=									
. =									
0m									
1	▼ Invest				1			1	
5m									
_									
0m									
=			Sand		Grain Size f - fine	Sorting	Grain_ a - angular	Moisture d - dry	
= =			Loamy sand		m - medium c coarse	p - poorly m - moderately w - well	suba - subangular subr - subrounded	m - moist s - saturated	
4			Sandy Loam		v.c - very coarse g - gravel		r - rounded wr - well rounded		
]			Loam						
\exists			Sandy Clay Loam						
=			Clay Loam						
			Sandy Clay Clay						
			,						



LITHOLOGICAL LOG

Client: Landcorp Project: Rockingham Industrial Area Bore location: 382207/642333 Datum: mAHD Bore Name: ERGM17 Job No: Hole commenced: Hole completed: J5943 9/07/2015 9/07/2015 Logged by: Total Depth: BK 5.25 mbgl

rill type lole diar	ame: ERGM17 e: Hollow Aug meter: 50mm	jer				Total Depth: R.L. TOC: Natural Surfa	5.234 n ace: 4.634 n	nTO	
				I	LII	HOLOGICAL	LOG		
Depth (m)	BORE CONSTRUCTION	GRAPHICAL LOG	LITHOLOGY	COLOUR	GRAIN SIZE	SORTING	GRAIN SHAPE	MOISTURE	OTHER
			Sand	Dark Brown	VF	W	Subr	0	
-									
m									
_	Sand				VF-F	P			
-	١٩٥								
m				Cream			Suba		
1	50mm PVC			Cicani					
1	20mi								
m _	*								
}									
m –									
_									
m	p								
1	Slotte								
-	50mm Slotted								
m	Gravel								
-									
m =									
					F-M			Saturated	
-									
m									
_									
-									
m					F-C				
4									
_									
m									
+	★								
m									
_									
_									
m _									
1		:	Sand		Grain Size f - fine	Sorting p - poorly	Grain a - angular	Moisture d - dry	
=]1	Loamy sand		m - medium	m - moderately	suba - subangular subr - subrounded	m - moist	
ᆿ			Sandy Loam		c coarse v.c - very coarse	w - well	r - rounded	s - saturated	
Ⅎ]1	Loam		g - gravel	_	wr - well rounded		
_			Sandy Clay Loam						
}			Clay Loam						
_									
٦		19	Sandy Clay						



LITHOLOGICAL LOG

Bor Dat Bor Dril	ent: ject: e locat um: re Nar I type: e diam	ne:		East Ro	6E, 64293 <u>'AHD</u> 2	Industrial Park			Job No: Hole comme Hole comple Logged by: Total Depth: R.L. TOC: Natural Surf	eted: 20/0 SW 6.0 3.92	77 04/05 04/05 m BNS 2 m AHD
	1 2 3			Slot /			T	SOIL CHAR			
method	penetration	support	water	Screen Depth	Depth (metres)	COLOUR	PARTICLE SIZE	TEXTURE	ORGANIC CONTENT	MOISTURE	COMMENTS
ŀΑ		(6 ss			- - - 0.5m	Dark grey			High		
		PVC (Class 9)			1.0m	Light grey	Fine	Silt		Dry	Well Cemented
					1.5m	White				-	
					2.0m		Medium/Fine	Silty sand			
			∇		2.5m	Cream				Moist	
					3.5m				Low		
					4.0m	Blue/grey	Medium	Sand		Saturated	
					5.5m						ЕОН

Tones: solid colour, blemish or mottle

COLOURS: Solid colours are BLACK, WHITE, BEIGE

Dark: Brown, Red, Orange, Yellow, Grey, Blue Tones: s

Medium: Brown, Red, Orange, Yellow, Grey, Blue

Light: Brown, Red, Orange, Yellow, Grey, Blue

PARTICLE SIZE: Particles are either FINE, MEDIUM or COARSE

TEXTURE: Sand, Loamy Sand, Clayey Sand Silt, Loam, Sandy Loam, Clay Loam Clay, Sandy Clay

ORGANIC CONTENT: VOLUME: High, Medium, Low SIZE: Fine, Medium, Coarse

MOISTURE: Soil Moisture can be either: DRY, SLIGHTLY MOIST, MOIST or SATURATED

STATIC WATER LEVEL

Date: 06/05/05

WL below TOC: 2.93 m

Stickup above NS: 0.66 m

WL: 2.30 m below NS



LITHOLOGICAL LOG

Bor Dat Bo i Dril	ject: e locat um: re Nar I type:	ne:		East Ro	3E, 64293 <u>'AHD</u> 3	Industrial Park			Job No: Hole comme Hole comple Logged by: Total Depth: R.L. TOC:	eted: 20/0 SW 6.0	77 04/05 04/05 m BNS 0 m AHD
Hol	e diam	nete	r:	75mm				SOIL CHAR	Natural Surf ACTERISTIC		′ m AHD
method	penetration to	support	water	Slot / Screen Depth	Depth (metres)	COLOUR	PARTICLE SIZE	TEXTURE	ORGANIC CONTENT	MOISTURE	COMMENTS
HA					-	Dark grey		Silt	High		
		PVC (Class 9)			0.5m	Grey	Fine	Sandy silt	Medium	Dry	
					1.5m						Well cemented layer
					2.0m	Grey/Cream	Medium/Fine	Silty sand			
					2.5m						
					3.0m					Moist	
					3.5m				Low		Limestone gravel
					4.0m	Cream	Course/ Medium				
					4.5m			Sand			
					5.0m					Saturated	
					6.0m	Blue/Grey	Medium				ЕОН

Tones: solid colour, blemish or mottle

COLOURS: Solid colours are BLACK, WHITE, BEIGE

Dark: Brown, Red, Orange, Yellow, Grey, Blue Tones: s

Medium: Brown, Red, Orange, Yellow, Grey, Blue

Light: Brown, Red, Orange, Yellow, Grey, Blue

PARTICLE SIZE: Particles are either FINE, MEDIUM or COARSE

TEXTURE: Sand, Loamy Sand, Clayey Sand Silt, Loam, Sandy Loam, Clay Loam Clay, Sandy Clay

ORGANIC CONTENT: VOLUME: High, Medium, Low SIZE: Fine, Medium, Coarse

MOISTURE: Soil Moisture can be either: DRY, SLIGHTLY MOIST, MOIST or SATURATED

STATIC WATER LEVEL

Date: 06/05/05

WL below TOC: 3.36 m

Stickup above NS: 0.52 m

WL: 2.84 m below NS



LITHOLOGICAL LOG

Client: Project: Bore loca Datum: Bore Nar Drill type: Hole diam	ne:		East Ro	5E, 64292 <u>AHD</u> 4	ndustrial Park			Job No: Hole comme Hole comple Logged by: Total Depth: R.L. TOC: Natural Surf	eted: 20/0 SW 6.0 4.43	77 04/05 04/05 m BNS 3 m AHD
1 2 3							SOIL CHAR			THINIB
method penetration	support	water	Slot / Screen Depth	Depth (metres)	COLOUR	PARTICLE SIZE	TEXTURE	ORGANIC CONTENT	MOISTURE	COMMENTS
на	PVC (Class 9)			0.5m	Dark brown		Silt	High		Shells at surface
				1.5m		Fine			Dry	Very thin, weakly cemented layer
				2.0m	Grey		Sandy silt			
		∇		2.5m	Cream				Moist	
				3.5m				Low		
				4.5m	Blue/Grey	Medium	Sand		Saturated	

COLOURS: Solid colours are BLACK, WHITE, BEIGE

Dark: Brown, Red, Orange, Yellow, Grey, Blue Tones: s

Medium: Brown, Red, Orange, Yellow, Grey, Blue

Light: Brown, Red, Orange, Yellow, Grey, Blue Tones: solid colour, blemish or mottle

PARTICLE SIZE: Particles are either FINE, MEDIUM or COARSE

TEXTURE: Sand, Loamy Sand, Clayey Sand Silt, Loam, Sandy Loam, Clay Loam Clay, Sandy Clay

ORGANIC CONTENT: VOLUME: High, Medium, Low SIZE: Fine, Medium, Coarse

MOISTURE: Soil Moisture can be either: DRY, SLIGHTLY MOIST, MOIST or SATURATED

STATIC WATER LEVEL

Date: 06/05/05

WL below TOC: 3.49 m

Stickup above NS: 0.69 m

WL: 2.80 m below NS



LITHOLOGICAL LOG

Client: Project Bore lo Datum Bore l Drill ty	it: ocatio n: Name /pe:	:]]]	East Roo	2E, 64291 <u>AHD</u> 5	Industrial Park			Job No: Hole comme Hole comple Logged by: Total Depth: R.L. TOC:	ted: 20/0 SW 6.0	77 04/05 04/05 m BNS m AHD
Hole d	liamet 2 3	er:	T	75mm				SOIL CHAR	Natural Surf ACTERISTIC		3 m AHD
method .		a moddin	water	Slot / Screen Depth	Depth (metres)	COLOUR	PARTICLE SIZE	TEXTURE	ORGANIC CONTENT	MOISTURE	COMMENTS
HA	-	2	_			Dark brown			High		
	PVC (Class 9)	(0.5m	Grey	Fine	Silt	Medium	Dry	Well cemented
					1.5m						
		∇	7		2.0m		Medium/Fine			Moist	
					2.5m	Cream					
					3.0m	-					
					3.5m			Sand	Low		
					4.5m	Grey/Blue	Medium			Saturated	ЕОН

Tones: solid colour, blemish or mottle

COLOURS: Solid colours are BLACK, WHITE, BEIGE

Dark: Brown, Red, Orange, Yellow, Grey, Blue Tones: s

Medium: Brown, Red, Orange, Yellow, Grey, Blue

Light: Brown, Red, Orange, Yellow, Grey, Blue

PARTICLE SIZE: Particles are either FINE, MEDIUM or COARSE

TEXTURE: Sand, Loamy Sand, Clayey Sand Silt, Loam, Sandy Loam, Clay Loam Clay, Sandy Clay

ORGANIC CONTENT: VOLUME: High, Medium, Low SIZE: Fine, Medium, Coarse

MOISTURE: Soil Moisture can be either: DRY, SLIGHTLY MOIST, MOIST or SATURATED

STATIC WATER LEVEL

Date: 06/05/05

WL below TOC: 2.73 m

Stickup above NS: 0.69 m

WL: 2.04 m below NS



LITHOLOGICAL LOG

ATA Environmental Job No: East Rockingham Industrial Park 0384377E, 6428951N 19/04/05 Hole commenced: Project: Bore location: Hole completed: 19/04/05 Datum: MGA94/AHD Logged by: SW Bore Name: ERGM 7 8.0 m BNS Total Depth: R.L. TOC: Natural Surface Drill type: Hand Auger 3.56 m AHD 75mm 2.90 m AHD Hole diamete SOIL CHARACTERISTICS Slot / Depth (metres) Screen Depth PARTICLE ORGANIC MOISTURE TEXTURE COMMENTS COLOUR SIZE CONTENT Very Fine PVC Dry Particle size increasing. Blue/Grey ∇ Loamy Sand 3.0m 3.5m 4.0m Low 4.5m 5.0m Bore constructed to 5.5 m Grey Saturated 5.5m BNS Fine/Medium Sand 6.0m Extended drilling to locate Tamala Limestone 7.0m

COLOURS: Solid colours are BLACK, WHITE, BEIGE
Dark: Brown, Red, Orange, Yellow, Grey, Blue
Medium: Brown, Red, Orange, Yellow, Grey, Blue
Light: Brown, Red, Orange, Yellow, Grey, Blue Tones: solid colour, blemish or mottle

PARTICLE SIZE: Particles are either FINE, MEDIUM or COARSE

TEXTURE: Sand, Loamy Sand, Clayey Sand

Silt, Loam, Sandy Loam, Clay Loam Clay, Sandy Clay

VOLUME: High, Medium, Low SIZE: Fine, Medium, Coarse ORGANIC CONTENT:

MOISTURE: Soil Moisture can be either: DRY, SLIGHTLY MOIST, MOIST or SATURATED

STATIC WATER LEVEL

Date: 06/05/05

WL below TOC: 2.65 m

Stickup above NS: 0.66 m

WL: 1.99 m below NS



LITHOLOGICAL LOG

Bor Dat Bor	ent: ject: e locat :um: re Nar	ne:		East Ro	2E, 642929 AHD	ndustrial Park			Job No: Hole comme Hole comple Logged by: Total Depth: R.L. TOC:	ted: 19/0 SW 6.0	77 04/05 04/05 m BNS 0 m AHD
	e diam		r:	75mm	igei				Natural Surfa	ace: 4.10) m AHD
	1 2 3			Slot /			ı	SOIL CHAR	ACTERISTIC	CS	T
method	penetration	support	water	Screen Depth	Depth (metres)	COLOUR	PARTICLE SIZE	TEXTURE	ORGANIC CONTENT	MOISTURE	COMMENTS
HA					- - -	Grey/Dark Brown		Silt	High		Weakly cemented just below surface
		PVC (Class 9)			0.5m						
		PV			1.0m						Some slightly cemented layers
					1.5m						
					-		Fine			Dry	
					2.0m	Grey		Silty Sand			
					2.5m						
			Δ		3.0m						
					- -				Low		
					3.5m						
					4.0m					Moist	
					4.5m						
					- -	Cream	Medium/Fine	Sand			
					5.0m					Saturated	
					5.5m						
					6.0m						ЕОН

COLOURS: Solid colours are BLACK, WHITE, BEIGE
Dark: Brown, Red, Orange, Yellow, Grey, Blue Tones:
Medium: Brown, Red, Orange, Yellow, Grey, Blue
Light: Brown, Red, Orange, Yellow, Grey, Blue

Tones: solid colour, blemish or mottle

PARTICLE SIZE: Particles are either FINE, MEDIUM or COARSE

TEXTURE: Sand, Loamy Sand, Clayey Sand Silt, Loam, Sandy Loam, Clay Loam Clay, Sandy Clay

ORGANIC CONTENT:

VOLUME: High, Medium, Low SIZE: Fine, Medium, Coarse

MOISTURE: Soil Moisture can be either: DRY, SLIGHTLY MOIST, MOIST or SATURATED

STATIC WATER LEVEL

Date: 06/05/05

WL below TOC: 3.53 m

Stickup above NS: 0.69 m

WL: 2.84 m below NS



LITHOLOGICAL LOG

Clie					vironmenta				Job No:	J347	
	ject: e locat	tion			ckingham l 2E, 643102	Industrial Park			Hole comme Hole comple)4/05)4/05
	um:			MGA94/		-514			Logged by:	SW	14700
	e Nar			ERGM 2					Total Depth:		m BNS
	I type: e diam		r:	Hand Au 75mm	iger				R.L. TOC: Natural Surfa		m AHD m AHD
	1 2 3							SOIL CHAR			
method	penetration	support	water	Slot / Screen Depth	Depth (metres)	COLOUR	PARTICLE SIZE	TEXTURE	ORGANIC CONTENT	MOISTURE	COMMENTS
НА		PVC (Class 9)			0.5m	Grey	Fine	Silt	High	Dry	Partially Cemented
					1.5m						
					2.0m	Creamy White		Sand			
					2.5m		Medium/Fine				
			<u> </u>		3.0m					Moist	
					3.5m	Cream		Limestone/	Low		
					- - - 4.5m -		Medium	Sand			
					5.0m					Saturated	
					6.0m						<u>ЕОН</u>

Tones : solid colour, blemish or mottle

COLOURS: Solid colours are BLACK, WHITE, BEIGE
Dark: Brown, Red, Orange, Yellow, Grey, Blue Tones:
Medium: Brown, Red, Orange, Yellow, Grey, Blue
Light: Brown, Red, Orange, Yellow, Grey, Blue

PARTICLE SIZE: Particles are either FINE, MEDIUM or COARSE

TEXTURE: Sand, Loamy Sand, Clayey Sand Silt, Loam, Sandy Loam, Clay Loam Clay, Sandy Clay

ORGANIC CONTENT:

VOLUME: High, Medium, Low SIZE: Fine, Medium, Coarse

MOISTURE: Soil Moisture can be either: DRY, SLIGHTLY MOIST, MOIST or SATURATED

STATIC WATER LEVEL

Date: 06/05/05

WL below TOC: 3.66 m

Stickup above NS: 0.65 m

WL: 3.01 m below NS



LITHOLOGICAL LOG

Bor Dat Bor Dril	ject: e locat um: re Nar I type: e diam	ne:		East Roo	5E, 643050 AHD iger	ndustrial Park		SOIL CHARA	Job No: Hole comme Hole comple Logged by: Total Depth: R.L. TOC: Natural Surfa	ted: 18/0 SW 6.0 (4.62 ace: 3.92	04/05 04/05
method	penetration	support	water	Screen Depth	Depth (metres)	COLOUR	PARTICLE SIZE	TEXTURE	ORGANIC CONTENT	MOISTURE	COMMENTS
НА		PVC (Class 9)			0.5m	Black	-	Silt	High		
		PΛ			1.0m	Grey/Brown	Fire			Dry	
					1.5m		Fine	Sand		Dry	
					2.0m						
					2.5m						
			∇		3.0m	Cream			Low	Moist	
					3.5m						
					4.5m		Medium/Fine	Loamy Sand			
					5.0m					Saturated	
					5.5m						
					6.0m	Grey		Limestone/ Loamy Sand			ЕОН

Tones: solid colour, blemish or mottle

COLOURS: Solid colours are BLACK, WHITE, BEIGE

Dark: Brown, Red, Orange, Yellow, Grey, Blue Tones: s

Medium: Brown, Red, Orange, Yellow, Grey, Blue

Light: Brown, Red, Orange, Yellow, Grey, Blue

PARTICLE SIZE: Particles are either FINE, MEDIUM or COARSE

TEXTURE: Sand, Loamy Sand, Clayey Sand Silt, Loam, Sandy Loam, Clay Loam Clay, Sandy Clay

VOLUME: High, Medium, Low SIZE: Fine, Medium, Coarse ORGANIC CONTENT:

MOISTURE: Soil Moisture can be either: DRY, SLIGHTLY MOIST, MOIST or SATURATED

STATIC WATER LEVEL

Date: 06/05/05

WL below TOC: 3.65 m

Stickup above NS: 0.69 m

WL: 2.96 m below NS



LITHOLOGICAL LOG

Client: Landcorp Job No: J5943 Project: Rockingham Industrial Area Hole commenced: 14/16/2017 Bore location: 358864/6428609 Hole completed: 14/16/2017 Datum: mAHD Logged by: MR1R Bore Name: Total Depth: 5 mBGL Hollow Auger - eDrill R.L. TOC: Drill type: 4.85 mAHD Natural Surface: Hole diameter: 50mm 4.261 mAHD GRAPHICAL Depth CONSTRUCTION LOG LITHOLOGY COLOUR GRAIN SIZE SORTING GRAIN SHAPE MOISTURE OTHER M Sub r Sand Brown Dry Brown/Cream 1.0m Cream White/Cream Moist ∇ 3.0m Saturated Cream 3.5m M-C Sub a 50mm Slotted Chunks of Limestone Organic Material Grey/Brown 5.0m 5.5m 6.0m Sand Grain Size Sorting Grain Moisture a - angular p - poorly Loamy sand m - medium m - moderately suba - subangular m - moist c coarse w - well subr - subrounded s - saturated r - rounded Sandy Loam v.c - very coarse wr - well rounded g - gravel Loam Sandy Clay Loam Clay Loam Sandy Clay

APPENDIX B

Post Development (2015 – 2019) Groundwater Quality



ChemName				
 | | | | | |
 | | | |
 | | | |
 | | | | | |
 | | |
|--|--|--|--|--
--|--|--|---|--|--
--|--|--
---|--|--|---
---|--|--
--|--|--|---|--|--|--|
| ChemName | | Project ID | J5943 | J5943 | J5943
 | J5943 | J5943 | J5943 | J5943 | J5943 | J5943
 | J5943 | J5943 | J5943 | J5943
 | J5943 | 15943 | J5943 | J5943
 | 15943 | 5943 | | | |
 | | |
| ChemName | | Location | | |
 | ERGM1 | | | ERGM1 | |
 | | | |
 | | | |
 | | RGM1 | | | |
 | | |
| ChemName | | Sampling Date | 3/03/2015 | 20/05/2015 | 12/08/2015
 | 19/11/2015 | 11/02/2016 | 26/05/2016 | 17/08/2016 | 17/11/2016 | 27/02/2017
 | 24/05/2017 | 30/08/2017 | 22/02/2018 | 9/05/2018
 | 7/08/2018 | 23/10/2018 | 28/02/2019 | 23/05/2019
 | 22/08/2019 | 4/11/2019 | | | |
 | | |
| | Unit | PQL | | |
 | | | | | |
 | | | |
 | | | |
 | | | Number of | | | Average
 | Median | Standard | | | |
| | | | | |
 | | | | | |
 | | | |
 | | | |
 | | | | Concentration | | Concentration
 | Concentratio | n Deviation |
| Arsenic (Filtered) | mg/L | 0.001 | 0.011 | 0.01 | 0.007
 | 0.008 | 0.011 | 0.007 | 0.005 | 0.006 | 0.005
 | 0.008 | 0.005 | 0.007 | 0.008
 | 0.005 | 0.006 | 0.012 | 0.011
 | 0.005 | 0.006 | | | | 0.0075
 | 0.007 | 0.0024 |
| Cadmium (Filtered) | mg/L | 0.0001 | <0.0001 | <0.0001 | <0.0001
 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001
 | <0.0001 | <0.0001 | <0.0001 | <0.0001
 | <0.0001 | <0.0001 | <0.0001 | <0.0001
 | <0.0001 | <0.0001 | | | | 0.0001
 | 0.0001 | 0 |
| Copper (Filtered)
Lead (Filtered) | mg/L | 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
 | 0.001 | 0 |
| Nickel (Filtered) | mg/L | 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
 | 0.001 | 0 |
| Zinc (Filtered) | mg/L | 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 | 0.0011 |
| zinc (riitered) | mg/L | 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 | 0.006 | <0.001
 | <0.001 | <0.001 | 19 | <0.001 | 0.006 | 0.0013
 | 0.001 | 0.0011 |
| EC (field) | μS/cm | | 930 | 816 | 897
 | 750 | 780 | 810 | 770 | 816 | 850
 | 900 | 821 | 804 | 913
 | 650 | 916 | 918 | 898
 | 954 | 852 | 10 | 650 | 954 | 844
 | 850 | 76 |
| Temn (Field) | nC | | 21.8 | 21.9 | 15.7
 | 20 | 24.6 | 21.6 | 20.5 | 20.5 | 22.2
 | 22.5 | 21.2 | 21.9 | 21.3
 | 20.3 | 20.4 | 21.6 | 21
 | 20.7 | 20.5 | | | | 21
 | 21.2 | 1.7 |
| pH (Field) | pH Units | | 7.46 | 7.28 | 13.7
 | 7.62 | 7.41 | 7.66 | 7.54 | 7.41 | 7.4
 | 7.53 | 7.45 | 7.56 | 7.44
 | 7.51 | 7.57 | 7.32 | 7.45
 | 7.63 | 7.66 | | | | 7.5
 | 7.485 | 0.11 |
| Miscellaneous Inorg - water | prionits | | 7.40 | 7.20 |
 | 7.02 | 7.42 | 7.00 | 7.54 | 7.42 | 7.4
 | 7.33 | 7.43 | 7.50 | 7.44
 | 7.51 | 7.57 | 7.32 | 7.43
 | 7.03 | 7.00 | 10 | 7.20 | 7.00 | 7.5
 | 7.403 | 0.11 |
| Electrical Conductivity (Non Compen | nsatu\$/cm | 1 | | | 810
 | | T . I | | | |
 | | | |
 | | | |
 | | | 1 | 810 | 810 |
 | 810 | |
| pH (Lab) | pH Units | | - I | | 7.7
 | | - | | - | - | -
 | | | - |
 | - | - | | -
 | - | - | | | 7.7 |
 | 7.7 | |
| Nutrients in Water | | | | |
 | | | | | |
 | | | |
 | | | |
 | | | | | |
 | | |
| Nitrite as N (Filtered) | mg/L | 0.005 | <0.005 | < 0.005 | < 0.005
 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | - | < 0.005
 | < 0.005 | < 0.005 | < 0.005 | < 0.005
 | < 0.005 | <0.005 | - | < 0.005
 | <0.005 | < 0.005 | 17 | <0.005 | <0.005 | 0.005
 | 0.005 | 0 |
| Ammonia as N (Filtered) | mg/L | 0.005 | 0.17 | 0.12 | 0.13
 | 0.097 | 0.13 | 0.12 | 0.08 | 0.11 | 0.14
 | 0.14 | 0.098 | 0.14 | 0.11
 | 0.13 | 0.089 | 0.1 | 0.12
 | 0.13 | 0.11 | 19 | 0.08 | 0.17 | 0.12
 | 0.12 | 0.022 |
| Kjeldahl Nitrogen Total (Filtered) | mg/L | 0.1 | 0.4 | 0.5 | 0.4
 | 0.3 | 0.4 | 0.7 | 0.3 | 0.4 | 0.5
 | 0.4 | 0.4 | 0.4 | 0.4
 | 0.5 | 0.4 | 0.4 | 0.3
 | 0.4 | 0.4 | 19 | 0.3 | 0.7 | 0.42
 | 0.4 | 0.09 |
| Nitrate (as N) (Filtered) | mg/L | 0.005 | 0.036 | 0.014 | 0.042
 | 0.008 | 0.01 | < 0.005 | < 0.005 | - | < 0.005
 | < 0.005 | 0.006 | < 0.005 | < 0.005
 | < 0.005 | <0.005 | - | < 0.005
 | <0.005 | < 0.005 | 17 | <0.005 | 0.042 | 0.01
 | 0.005 | 0.011 |
| Nitrogen (Total Oxidised) (Filtered) | mg/L | 0.005 | - | - | -
 | - | - | - | - | < 0.005 | -
 | - | | - | -
 | - | - | 0.006 | -
 | < 0.005 | - | 3 | < 0.005 | 0.006 | 0.0053
 | 0.005 | 0.00058 |
| Total Nitrogen (Filtered) | mg/L | 0.1 | 0.4 | 0.5 | 0.5
 | 0.3 | 0.4 | 0.7 | 0.3 | 0.4 | 0.5
 | 0.4 | 0.4 | 0.4 | 0.4
 | 0.5 | 0.4 | 0.4 | 0.3
 | 0.4 | 0.4 | 19 | 0.3 | 0.7 | 0.42
 | 0.4 | 0.092 |
| Phosphate (as P) (Filtered) | mg/L | 0.005 | 0.019 | 0.063 | 0.033
 | 0.037 | 0.061 | 0.058 | 0.042 | 0.053 | 0.066
 | 0.062 | 0.041 | 0.065 | 0.065
 | 0.043 | 0.068 | <0.005 | 0.039
 | 0.023 | 0.044 | 19 | <0.005 | 0.068 | 0.047
 | 0.044 | 0.018 |
| Phosphorus (Filtered) | mg/L | 0.05 | 0.08 | 0.05 | <0.05
 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06
 | 0.05 | <0.05 | <0.05 | 0.06
 | <0.05 | 0.06 | 0.06 | <0.05
 | 0.06 | 0.06 | 19 | <0.05 | 0.08 | 0.055
 | 0.05 | 0.0077 | | | |
| | | | | |
 | | | | | |
 | | | |
 | | | |
 | | | | | |
 | | |
| | | Project ID | | |
 | J5943 | | | J5943 | |
 | | | |
 | | | |
 | | 5943 | | | |
 | | |
| | | | | |
 | ERGM2 | | | ERGM2 | |
 | | | |
 | | | |
 | | RGM2 | | | |
 | | |
| | | Sampling Date | 3/03/2015 | 20/05/2015 | 12/08/2015
 | 19/11/2015 | 11/02/2016 | 26/05/2016 | 17/08/2016 | 17/11/2016 | 27/02/2017
 | 24/05/2017 | 30/08/2017 | 22/02/2018 | 9/05/2018
 | 7/08/2018 | 23/10/2018 | 28/02/2019 | 23/05/2019
 | 22/08/2019 | 4/11/2019 | | | |
 | | |
| ChemName | Unit | PQL | 1 | |
 | | | | | |
 | | | |
 | | | |
 | | | Number of | | | Average
 | Median | Standard | | | |
| | | | — | |
 | | | | | |
 | | | |
 | | | |
 | | | Results | Concentration | Concentration | Concentration
 | Concentratio | n Deviation |
| Dissolved Metals in Water | | | | | T
 | | | | | |
 | | | |
 | | | |
 | | | | | |
 | 1 | |
| Arsenic (Filtered) | mg/L | 0.001 | 0.011 | 0.014 | 0.014
 | 0.011 | 0.012 | 0.014 | 0.016 | 0.014 | 0.012
 | 0.015 | 0.022 | 0.028 | 0.077
 | 0.24 | 0.07 | 0.067 | 0.14
 | 0.16 | 0.059 | | | | 0.052
 | 0.016 | 0.063 |
| Cadmium (Filtered) | mg/L | 0.0001 | <0.0001 | <0.0001 | <0.0001
 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001
 | <0.0001 | <0.0001 | <0.0001 | <0.0001
 | <0.0001 | <0.0001 | <0.0001 | <0.0001
 | <0.0001 | <0.0001 | | | | 0.0001
 | 0.0001 | 0 |
| Copper (Filtered) | mg/L | 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
 | 0.001 | 0 |
| Lead (Filtered) | mg/L | 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 | 0 |
| Nickel (Filtered) | mg/L | 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
 | 0.001 | 0 |
| Zinc (Filtered) | mg/L | 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 | 0.012 | <0.001
 | <0.001 | 0.002 | 19 | <0.001 | 0.012 | 0.0016
 | 0.001 | 0.0025 |
| Field | - 01 | | | | 1500
 | | 1000 | | | | ****
 | | | | | |
 | **** | | |
 | | 2400 | | | laan. |
 | | laan. |
| EC (field) Temp (Field) | μS/cm
oC | | 1473
20 | 1354
20.4 | 1539
14.8
 | 1616
19.1 | 1268
22.9 | 1160
20 3 | 1190
19.2 | 1718
20.5 | 1250
21
 | 1620
20.9 | 1381
19.9 | 1755
20.8 | 1870
20.2
 | 1186
19.6 | 1636
19.5 | 1890
20.2 | 1622
20.1
 | 2374
19.9 | 2196
19.5 | | | 2374 | 1584
 | 1616
20.1 | 337
1.5 |
| | | | | | 14.8
 | | | | | |
 | | | |
 | | | |
 | | | | | |
 | | |
| pH (Field) | pH Units | | 7.51 | 7.26 |
 | 7.19 | 7.28 | 7.61 | 7.4 | 7.15 | 7.38
 | 7.48 | 7.29 | 7.17 | 7.37
 | 7.31 | 7.59 | 7.34 | 7.41
 | 7.47 | 7.88 | 18 | 7.15 | 7.88 | 7.4
 | 7.375 | 0.18 |
| Miscellaneous Inorg - water
Electrical Conductivity (Non Compen: | | 1 | — | | 1400
 | | | | | |
 | | | |
 | | | |
 | | | | 1400 | 1400 | 1
 | 1400 | _ |
| pH (Lab) | pH Units | 1 | _ | | 7.8
 | - | - | | - | - | -
 | - | | - | -
 | - | | - | -
 | - | - | | | 7.8 |
 | 7.8 | |
| Nutrients in Water | pri onics | | | | 7.8
 | - | - | | - | - | -
 | | | |
 | - | - | | -
 | - | | 1 | 7.0 | 7.0 |
 | 7.0 | |
| Nitrite as N (Filtered) | mg/L | 0.005 | <0.005 | <0.005 | <0.005
 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005
 | <0.005 | <0.005 | <0.005 | <0.005
 | <0.005 | <0.005 | | <0.005
 | <0.005 | <0.005 | 17 | <0.005 | < 0.005 | 0.005
 | 0.005 | 0 |
| Ammonia as N (Filtered) | mg/L | 0.005 | 0.02 | 0.02 | 0.031
 | 0.043 | 0.029 | 0.032 | 0.038 | 0.045 | 0.043
 | 0.055 | 0.024 | 0.031 | 0.029
 | 0.018 | 0.039 | 0.058 | 0.089
 | 0.062 | 0.088 | | | | 0.042
 | 0.038 | 0.021 |
| Kjeldahl Nitrogen Total (Filtered) | mg/L | 0.1 | 0.2 | 0.3 | 0.6
 | 0.3 | 0.3 | 0.3 | 0.030 | 0.3 | 0.5
 | 0.4 | 0.4 | 0.4 | 0.4
 | 0.4 | 0.4 | 0.5 | 0.4
 | 0.5 | 0.4 | | | 0.6 | 0.38
 | 0.030 | 0.022 |
| Nitrate (as N) (Filtered) | mg/L | 0.005 | 0.022 | 0.008 | 0.057
 | 0.026 | 0.012 | <0.005 | <0.005 | | <0.005
 | 0.014 | 0.016 | <0.005 | <0.005
 | <0.005 | <0.005 | | <0.005
 | <0.005 | 0.036 | | | 0.057 | 0.014
 | 0.005 | 0.014 |
| Nitrogen (Total Oxidised) (Filtered) | mg/L | 0.005 | 0.022 | 0.000 | 0.057
 | 0.020 | 0.011 | 10.003 | 40.003 | | 40.005
 | 0.014 | 0.010 | 40.003 | 10.005
 | 10.003 | 10.003 | 0.008 | 10.005
 | <0.005 | 0.030 | | | | 0.033
 | 0.008 | 0.045 | | | |
| Total Nitrogen (Filtered) | mg/L | 0.1 | | |
 | | | | | 0.085 |
 | | | |
 | | | |
 | | | | | |
 | 0.000 | 0.097 |
| | mg/L | | 0.3 | 0.3 | 0.7
 | 0.4 | 0.3 | 0.3 | 0.3 | 0.085 | 0.5
 | - 0.4 | 0.4 | 0.4 | 0.4
 | 0.4 | 0.4 | 0.5 | | |
 | | 0.4 | | | |
 | 0.4 | |
| | | 0.005 | 0.3 | 0.3 | 0.7
 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.5
 | 0.4 | 0.4 | 0.4 | 0.4
 | 0.4 | 0.4 | 0.5 | 0.4
 | 0.5 | 0.4 | 19 | 0.3 | 0.7 | 0.41
 | 0.4 | |
| Phosphate (as P) (Filtered) Phosphorus (Filtered) | mg/I | 0.005 | 0.059 | 0.054 | 0.048
 | 0.063 | 0.065 | 0.055 | 0.056 | 0.4 | 0.072
 | 0.072 | 0.068 | 0.083 | 0.088
 | 0.09 | 0.071 | 0.034 | 0.071
 | 0.031 | 0.044 | 19
19 | 0.3
0.031 | 0.7 | 0.41
 | 0.065 | 0.017 | | | |
| Phosphorus (Filtered) | mg/L | 0.005
0.05 | | |
 | | | | | 0.4 |
 | | | |
 | | | |
 | | 0.044 | 19
19 | 0.3
0.031 | 0.7 | 0.41
 | | |
| | mg/L | 0.05 | 0.059 | 0.054
0.06 | 0.048
 | 0.063 | 0.065
<0.05 | 0.055
<0.05 | 0.056 | 0.4
0.082
0.09 | 0.072
0.06
 | 0.072 | 0.068 | 0.083
0.07 | 0.088
 | 0.09 | 0.071
0.06 | 0.034 | 0.071
0.07
 | 0.031 | 0.044 | 19
19 | 0.3
0.031 | 0.7 | 0.41
 | 0.065 | 0.017 |
| | mg/L | 0.05 Project ID Location | 0.059
0.06
J5943
ERGM5 | 0.054
0.06
J5943
ERGM5 | 0.048
0.05
J5943
ERGM5
 | 0.063
0.06
J5943
ERGM5 | 0.065
<0.05
J5943
ERGM5 | 0.055
<0.05
J5943
ERGM5 | 0.056
<0.05
J5943
ERGM5 | 0.4
0.082
0.09
J5943
ERGM5 | 0.072
0.06
J5943
ERGM5
 | 0.072
0.06
J5943
ERGM5 | 0.068
0.08
J5943
ERGM5 | 0.083
0.07
J5943
ERGM5 | 0.088
0.07
J5943
ERGM5
 | 0.09
0.05
J5943
ERGM5 | 0.071
0.06
J5943
ERGM5 | 0.034
0.06
J5943
ERGM5 | 0.071
0.07
J5943
ERGM5
 | 0.031
0.08
15943
ERGM5 | 0.044
0.08
5943
RGM5 | 19
19
19 | 0.3
0.031
<0.05 | 0.7 | 0.41
 | 0.065 | 0.017 |
| | mg/L | 0.05
Project ID | 0.059
0.06
J5943
ERGM5 | 0.054
0.06
J5943
ERGM5 | 0.048
0.05
J5943
ERGM5
 | 0.063
0.06
J5943
ERGM5 | 0.065
<0.05
J5943
ERGM5 | 0.055
<0.05
J5943
ERGM5 | 0.056
<0.05
J5943
ERGM5 | 0.4
0.082
0.09
J5943
ERGM5 | 0.072
0.06
J5943
ERGM5
 | 0.072
0.06
J5943
ERGM5 | 0.068
0.08
J5943
ERGM5 | 0.083
0.07
J5943
ERGM5 | 0.088
0.07
J5943
ERGM5
 | 0.09
0.05
J5943
ERGM5 | 0.071
0.06
J5943
ERGM5 | 0.034
0.06
J5943
ERGM5 | 0.071
0.07
J5943
ERGM5
 | 0.031
0.08
15943
ERGM5 | 0.044
0.08
5943
RGM5 | 19
19
19 | 0.3
0.031
<0.05 | 0.7 | 0.41
 | 0.065 | 0.017 |
| | mg/L
Unit | 0.05 Project ID Location | 0.059
0.06
J5943
ERGM5 | 0.054
0.06
J5943
ERGM5 | 0.048
0.05
J5943
ERGM5
 | 0.063
0.06
J5943
ERGM5 | 0.065
<0.05
J5943
ERGM5 | 0.055
<0.05
J5943
ERGM5 | 0.056
<0.05
J5943
ERGM5 | 0.4
0.082
0.09
J5943
ERGM5 | 0.072
0.06
J5943
ERGM5
 | 0.072
0.06
J5943
ERGM5 | 0.068
0.08
J5943
ERGM5 | 0.083
0.07
J5943
ERGM5 | 0.088
0.07
J5943
ERGM5
 | 0.09
0.05
J5943
ERGM5 | 0.071
0.06
J5943
ERGM5 | 0.034
0.06
J5943
ERGM5 | 0.071
0.07
J5943
ERGM5
 | 0.031
0.08
15943
ERGM5 | 0.044
0.08
5943
RGM5 | 19
19
19 | 0.3
0.031
<0.05 | 0.7
0.09
0.09 | 0.41
 | 0.065 | 0.017 |
| Phosphorus (filtered) ChemName | | 0.05 Project ID Location Sampling Date | 0.059
0.06
J5943
ERGM5 | 0.054
0.06
J5943
ERGM5 | 0.048
0.05
J5943
ERGM5
 | 0.063
0.06
J5943
ERGM5 | 0.065
<0.05
J5943
ERGM5 | 0.055
<0.05
J5943
ERGM5 | 0.056
<0.05
J5943
ERGM5 | 0.4
0.082
0.09
J5943
ERGM5 | 0.072
0.06
J5943
ERGM5
 | 0.072
0.06
J5943
ERGM5 | 0.068
0.08
J5943
ERGM5 | 0.083
0.07
J5943
ERGM5 | 0.088
0.07
J5943
ERGM5
 | 0.09
0.05
J5943
ERGM5 | 0.071
0.06
J5943
ERGM5 | 0.034
0.06
J5943
ERGM5 | 0.071
0.07
J5943
ERGM5
 | 0.031
0.08
15943
ERGM5 | 0.044
0.08
5943
RGM5 | 19
19
19
Statistical Su
Number of | 0.3
0.031
<0.05
mmary
Minimum | 0.7
0.09
0.09 | 0.41
0.063
0.064
 | 0.065 | 0.017
0.012
Standard |
| Phosphorus (filtered) ChemName Dissolved Metals in Water | Unit | Project ID
Location
Sampling Date
PQL | 0.059
0.06
J5943
ERGM5
3/03/2015 | 0.054
0.06
J5943
ERGM5
20/05/2015 | 0.048
0.05
J5943
ERGM5
12/08/2015
 | 0.063
0.06
J5943
ERGM5
19/11/2015 | 0.065
<0.05
J5943
ERGM5
11/02/2016 | 0.055
<0.05
J5943
ERGM5
26/05/2016 | 0.056
<0.05
J5943
ERGM5
17/08/2016 | 0.4
0.082
0.09
J5943
ERGM5
17/11/2016 | 0.072
0.06
J5943
ERGM5
27/02/2017
 | 0.072
0.06
J5943
ERGM5
24/05/2017 | 0.068
0.08
J5943
ERGM5
30/08/2017 | 0.083
0.07
J5943
ERGM5
22/02/2018 | 0.088
0.07
J5943
ERGM5
9/05/2018
 | 0.09
0.05
J5943
ERGM5
7/08/2018 | 0.071
0.06
U5943
ERGM5
23/10/2018 | 0.034
0.06
J5943
ERGM5
28/02/2019 | 0.071
0.07
J5943
ERGM5
23/05/2019
 | 0.031
0.08
15943
ERGM5
22/08/2019 | 0.044
0.08
5943
RGM5
4/11/2019 | 19 19 19 Statistical Su Number of Results | 0.3 0.031 <0.05 mmary Minimum Concentration | 0.7
0.09
0.09
Maximum
Concentration | 0.41
0.063
0.064
Average
Concentration
 | 0.065
0.06
Median
Concentratio | 0.017
0.012
Standard |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsenic (Filtered) | Unit
mg/L | Project ID Location Sampling Date PQL 0.001 | 0.059
0.06
J5943
ERGM5
3/03/2015 | 0.054
0.06
J5943
ERGM5
20/05/2015 | 0.048
0.05
J5943
ERGM5
12/08/2015
 | 0.063
0.06
J5943
ERGM5
19/11/2015 | 0.065
<0.05

 J5943
 ERGM5
 11/02/2016 | 0.055
<0.05
J5943
ERGM5
26/05/2016 | 0.056
<0.05
J5943
ERGM5
17/08/2016 | 0.4
0.082
0.09
J5943
ERGM5
17/11/2016 | 0.072
0.06
J5943
ERGM5
27/02/2017
 | 0.072
0.06
J5943
ERGM5
24/05/2017 | 0.068
0.08
J5943
ERGM5
30/08/2017 | 0.083
0.07
J5943
ERGM5
22/02/2018 | 0.088
0.07
J5943
ERGM5
9/05/2018
 | 0.09
0.05
J5943
ERGM5
7/08/2018 | 0.071
0.06
J5943
ERGM5
23/10/2018 | 0.034
0.06
J5943
ERGM5
28/02/2019 | 0.071
0.07
0.07
0.07
0.07
0.07
0.07
0.002
 | 0.031
0.08
15943
ERGM5
22/08/2019 | 0.044
0.08
5943
RGM5
4/11/2019 | 19
19
19
Statistical Su
Number of
Results | 0.3 0.031 <0.05 mmary Minimum Concentration 0.002 | 0.7
0.09
0.09
Maximum
Concentration | 0.41
0.063
0.064
Average
Concentration
 | 0.065
0.06
Median
Concentratio | 0.017
0.012
Standard |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsenic (Filtered) Cadmium (Filtered) | Unit
mg/L
mg/L | Project ID Location Sampling Date PQL 0.001 0.0001 | 0.059
0.06
J5943
ERGM5
3/03/2015
0.002
<0.0001 | 0.054
0.06
J5943
ERGM5
20/05/2015
0.002
<0.0001 | 0.048
0.05
 J5943
 ERGM5
 12/08/2015
 0.002
 <0.0001
 | 0.063
0.06
J5943
ERGM5
19/11/2015
0.002
<0.0001 | 0.065
<0.05
 J5943
 ERGM5
 11/02/2016 | 0.055
<0.05
J5943
ERGM5
26/05/2016 | 0.056
<0.05
J5943
ERGM5
17/08/2016
0.002
<0.0001 | 0.4
0.082
0.09
J5943
ERGM5
17/11/2016 | 0.072
0.06
J5943
ERGM5
27/02/2017
 | 0.072
0.06
J5943
ERGM5
24/05/2017 | 0.068
0.08
J5943
ERGM5
30/08/2017 | 0.083
0.07
I5943
ERGM5
22/02/2018 | 0.088
0.07
J5943
ERGM5
9/05/2018
 | 0.09
0.05
J5943
ERGM5
7/08/2018 | 0.071
0.06
J5943
ERGM5
23/10/2018 | 0.034
0.06
J5943
ERGM5
28/02/2019 | 0.071
0.07
0.07
J5943
ERGM5
23/05/2019
 | 0.031
0.08
15943
ERGM5
22/08/2019 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001 | 19
19
19
Statistical Su
Number of
Results | 0.3 0.031 <0.05 mmary Minimum Concentration 0.002 <0.0001 | 0.7
0.09
0.09
0.09
Maximum
Concentration
0.002
<0.0001 | 0.41
0.063
0.064
Average
Concentration
0.002
0.0001
 | 0.065
0.06
Median
Concentratio | 0.017
0.012
Standard
Deviation |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsenic (Filtered) Cadmium (Filtered) Copper (Filtered) | Unit mg/L mg/L mg/L | 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 | 0.059
0.06
J5943
ERGM5
3/03/2015
0.002
<0.0001
<0.001 | 0.054
0.06
J5943
ERGM5
20/05/2015
0.002
<0.0001 | 0.048
0.05
J5943
ERGM5
12/08/2015
0.002
<0.0001
<0.001
 | 0.063
0.06
J5943
ERGM5
19/11/2015
0.002
<0.0001 | 0.065
<0.05
J5943
ERGM5
11/02/2016
0.002
<0.0001
<0.001 | 0.055
<0.05
J5943
ERGM5
26/05/2016
0.002
<0.0001
<0.001 | 0.056
<0.05
J5943
ERGM5
17/08/2016
0.002
<0.0001
<0.001 | 0.4
0.082
0.09
J5943
ERGM5
17/11/2016 | 0.072
0.06
J5943
ERGM5
27/02/2017
0.002
<0.0001
 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001 | 0.068
0.08
J5943
ERGM5
30/08/2017
0.002
<0.0001
<0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
 | 0.09
0.05
J5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001 | 0.071
0.06
J5943
ERGM5
23/10/2018
0.002
<0.0001 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002 | 0.071
0.07
0.07
0.07
0.07
0.005
0.002
0.0001
0.001
 | 0.031
0.08
15943
ERGM5
22/08/2019
0.002
<0.0001
<0.001 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001 | 19
19
19
Number of
Results | 0.3 0.031 <0.05 mmary Minimum Concentration 0.002 <0.0001 <0.0001 | 0.7
0.09
0.09
0.09
Maximum
Concentration
0.002
-0.0001 | 0.41
0.063
0.064
Average
Concentration
0.002
0.0001
0.0001
 | 0.065
0.06
Median
<u>Concentratio</u>
0.002
0.0001
0.001 | 0.017
0.012
Standard |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arseic (Filtered) Copper (Filtered) Lead (Filtered) | mg/L
mg/L
mg/L
mg/L | 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.001 0.001 | 0.059
0.06
J5943
ERGM5
3/03/2015
0.002
<0.0001
<0.001 | 0.054
0.06
J5943
ERGM5
20/05/2015
0.002
<0.0001
<0.001 | 0.048
0.05
J5943
ERGM5
12/08/2015
0.002
<0.0001
<0.001
 | 0.063
0.06
J5943
ERGM5
19/11/2015
0.002
<0.0001
<0.001 | 0.065
<0.05
J5943
ERGM5
11/02/2016
0.002
<0.0001
<0.001 | 0.055
<0.05
J5943
ERGM5
26/05/2016
0.002
<0.0001
<0.001 | 0.056
<0.05
I5943
ERGM5
17/08/2016
0.002
<0.0001
<0.001 | 0.4
0.082
0.09
J5943
ERGM5
17/11/2016
0.002
<0.0001
<0.001 | 0.072
0.06
J5943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<0.001 | 0.068
0.08
J5943
ERGM5
30/08/2017
0.002
<0.0001
<0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
 | 0.09
0.05
J5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001 | 0.071
0.06
J5943
ERGM5
23/10/2018
0.002
<0.0001
<0.001 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001 | 0.071
0.07
0.07
J5943
ERGM5
23/05/2019
0.002
<0.0001
<0.001
 | 0.031
0.08
15943
ERGM5
22/08/2019
0.002
<0.0001
<0.001 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001 | 19
19
19
Statistical Su
Number of
Results
19
19 | 0.3 0.031 <0.05 mmary Minimum Concentration 0.002 <0.0001 <0.001 <0.001 | 0.7 0.09 0.09 0.09 Maximum Concentration 0.002 -0.0001 0.002 -(0.001 | 0.41
0.063
0.064
Average
Concentration
0.002
0.0001
0.0001
 | 0.065
0.06
Median
Concentratio
0.002
0.0001
0.001 | 0.017
0.012
Standard
Deviation |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsenic (Filtered) Cadmium (Filtered) Lead (Filtered) Lead (Filtered) Mickel (Filtered) | mg/L
mg/L
mg/L
mg/L
mg/L | 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001 0.0001 | 0.059
0.06
J5943
ERGM5
3/03/2015
0.002
<0.0001
<0.001
<0.001 | 0.054
0.06
J5943
ERGM5
20/05/2015
0.002
<0.0001
<0.001
<0.001 | 0.048
0.05

 | 0.063
0.06
J5943
ERGMS
19/11/2015
0.002
<0.0001
<0.001
<0.001 | 0.065
<0.05
 J5943 ERGM5
11/02/2016 11/02/2016 | 0.055
<0.05
J5943
ERGM5
26/05/2016
0.002
<0.0001
<0.001
<0.001 | 0.056
<0.05
J5943
ERGM5
17/08/2016
0.002
<0.0001
<0.001
<0.001 | 0.4
0.082
0.09
J5943
ERGM5
17/11/2016
0.002
<0.0001
<0.001
<0.001 | 0.072
0.06
J5943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
<0.001
 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<0.001
<0.001 | 0.068
0.08
J5943
ERGM5
30/08/2017
0.002
<0.0001
<0.001
<0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001
<0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
<0.001
 | 0.09
0.05
J5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001
<0.001 | 0.071
0.06
J5943
ERGM5
23/10/2018
0.002
<0.0001
<0.001
<0.001 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001 | 0.071
0.07
0.07
0.07
0.07
0.092
0.002
0.0001
0.001
0.001
 | 0.031
0.08
15943
ERGM5
22/08/2019
0.002
<0.0001
<0.001
<0.001 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001 | 19 19 19 19 Number of Results 19 19 19 19 | 0.3 0.031 <0.05 mmary Minimum Concentration 0.002 <0.0001 <0.001 <0.001 <0.001 | 0.7
0.09
0.09
0.09
Maximum
Concentration
0.002
<0.0001
0.002
<0.0001
<0.001 | 0.41
0.063
0.064
Average
Concentration
0.002
0.0001
0.0011
0.001
 | 0.065
0.06
Median
Concentratio
0.002
0.0001
0.001
0.001 | 0.017
0.012
Standard
Deviation
0
0
0.00023
0 |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arseic (Filtered) Copper (Filtered) Nickel (Filtered) Nickel (Filtered) Nickel (Filtered) | mg/L
mg/L
mg/L
mg/L | 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.001 0.001 | 0.059
0.06
J5943
ERGM5
3/03/2015
0.002
<0.0001
<0.001 | 0.054
0.06
J5943
ERGM5
20/05/2015
0.002
<0.0001
<0.001 | 0.048
0.05
J5943
ERGM5
12/08/2015
0.002
<0.0001
<0.001
 | 0.063
0.06
J5943
ERGM5
19/11/2015
0.002
<0.0001
<0.001 | 0.065
<0.05
J5943
ERGM5
11/02/2016
0.002
<0.0001
<0.001 | 0.055
<0.05
J5943
ERGM5
26/05/2016
0.002
<0.0001
<0.001 | 0.056
<0.05
I5943
ERGM5
17/08/2016
0.002
<0.0001
<0.001 | 0.4
0.082
0.09
J5943
ERGM5
17/11/2016
0.002
<0.0001
<0.001 | 0.072
0.06
J5943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<0.001 | 0.068
0.08
J5943
ERGM5
30/08/2017
0.002
<0.0001
<0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
 | 0.09
0.05
J5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001 | 0.071
0.06
J5943
ERGM5
23/10/2018
0.002
<0.0001
<0.001 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001 | 0.071
0.07
0.07
J5943
ERGM5
23/05/2019
0.002
<0.0001
<0.001
 | 0.031
0.08
15943
ERGM5
22/08/2019
0.002
<0.0001
<0.001 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001 | 19 19 19 19 Number of Results 19 19 19 19 | 0.3 0.031 <0.05 mmary Minimum Concentration 0.002 <0.0001 <0.001 <0.001 <0.001 | 0.7
0.09
0.09
0.09
Maximum
Concentration
0.002
<0.0001
0.002
<0.0001
<0.001 | 0.41
0.063
0.064
Average
Concentration
0.002
0.0001
0.0001
 | 0.065
0.06
Median
Concentratio
0.002
0.0001
0.001 | 0.017
0.012
Standard
Deviation |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsenic (Filtered) Cadmium (Filtered) Lead (Filtered) Lead (Filtered) Zinc (Filtered) Zinc (Filtered) | mg/L
mg/L
mg/L
mg/L
mg/L
mg/L | 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001 0.0001 | 0.059
0.06
J5943
ERGMS
3/03/2015
0.002
<0.0001
<0.001
<0.001
0.002 | 0.054
0.06
J5943
ERGM5
20/05/2015
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.048
0.05
IJ5943
ERGM5
I 12/08/2015
0.002
<0.0001
<0.001
<0.001
<0.001
 | 0.063
0.06
I5943
ERGM5
19/11/2015
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.065
<0.05
 J5943 ERGM5
11/02/2016
 0.002 <0.0001
<0.001 <0.001
<0.001 <0.001 | 0.055
<0.05
J5943
ERGM5
26/05/2016
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.056 <0.05 I5943 ERGM5 17/08/2016 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 | 0.4
0.082
0.09
J5943
ERGM5
17/11/2016
0.002
<0.0001
<0.001
<0.001 | 0.072
0.06
15943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
<0.001
<0.001
 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.068
0.08
J5943
ERGM5
30/08/2017
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
<0.001
<0.001
 | 0.09
0.05
J5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.071
0.06
J5943
ERGMS
23/10/2018
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001
0.002 | 0.071
0.07
0.07
0.07
0.09
0.002
0.0001
0.001
0.001
0.001
0.001
 | 0.031
0.08
15943
ERGM5
22/08/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001 | 19 19 19 Number of Results 19 19 19 19 19 19 19 19 19 19 | 0.3 0.031 <0.05 mmary Minimum Concentration 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 | 0.7
0.09
0.09
0.09
Maximum
Concentration
0.002
<0.0001
0.002
<0.0001
-0.001
0.002 | 0.41
0.063
0.064
Average
Concentration
0.002
0.0001
0.0011
0.001
0.001
 | 0.065
0.06
Median
Concentratio
0.002
0.0001
0.001
0.001
0.001 | 0.017
0.012
Standard
Deviation
0
0
0.00023
0
0.00032 |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsen: (Filtered) Copper (Filtered) Nickel (Filtered) Nickel (Filtered) Zine (Filtered) Field Et (filed) | mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001 0.0001 | 0.059
0.06
J5943
ERGM5
3/03/2015
0.002
<0.0001
<0.001
<0.001
<0.001
0.002 | 0.054
0.06
I5943
ERGM5
20/05/2015
0.002
<0.0001
<0.001
<0.001
<0.001
1046 | 0.048
0.05
J5943
ERGM5
12/08/2015
0.002
<0.0001
<0.001
<0.001
<0.001
 | 0.063
0.06
J5943
ERGM5
19/11/2015
0.002
<0.0001
<0.001
<0.001
<0.001
941 | 0.065
<0.05
J5943
ERGM5
11/02/2016
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.055 <0.05 15943 ERGMS 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 1010 | 0.056
<0.05
 J5943
 ERGM5
 17/08/2016
 | 0.4 0.082 0.09 I5943 ERGM5 17/11/2016 0.002 <0.0001 <0.001 <0.001 <0.001 966 | 0.072
0.06
15943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.068
0.08
J5943
ERGM5
30/08/2017
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
 | 0.09
0.05
J5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.071
0.06
J5943
ERGM5
23/10/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001
0.002 | 0.071
0.07
15943
ERGMS
23/05/2019
0.002
-0.0001
<0.001
<0.001
<0.001
-0.001
-0.001
 | 0.031
0.08
IS943
ERGM5
22/08/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001 | 19 19 19 19 Statistical Su Number of Results 19 19 19 19 19 19 | 0.3 0.031 <0.05 mmary Minimum Concentration 0.002 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 | 0.7
0.09
0.09
Maximum
Concentration
0.002
<0.001
0.002
<0.001
0.002 | 0.41
0.063
0.064
Average
Concentration
0.002
0.0001
0.0011
0.001
0.0011
 | 0.065
0.06
Median
Concentratio
0.002
0.0001
0.001
0.001
0.001 | 0.017
0.012
Standard Deviation 0 0 0 0.00023 0 0.00032 |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsenic (Filtered) Cadmum (Filtered) Cadmum (Filtered) Lead (Filtered) Lead (Filtered) Zinc (Filtered) Filtered Filtered Tempt (Filed) Tempt (Filed) | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001 0.0001 | 0.059
0.06
J5943
ERGM5
3/03/2015
0.002
<0.0001
<0.001
<0.001
0.002
1169
20.1 | 0.054
0.06
J5943
ERGM5
20/05/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.048
0.05
IJ5943
ERGM5
I 12/08/2015
0.002
<0.0001
<0.001
<0.001
<0.001
 | 0.063
0.06
J5943
ERGMS
19/11/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
10.001 | 0.065
<0.05
J5943
ERGM5
11/02/2016
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
1020
23.3 | 0.055 <0.05 J5943 ERGM5 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 20.02 | 0.056
<0.05
 J5943
 ERGM5
 17/08/2016
 | 0.4 0.082 0.09 J5943 ERGMS 17/11/2016 0.002 <0.0001 <0.001 <0.001 0.001 966 15.4 | 0.072
0.06
I5943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.068
0.08
J5943
ERGM5
30/08/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
<0.001
<0.001
1100
20.4
 | 0.09
0.05
I5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
10.001 | 0.071
0.06
I5943
ERGMS
23/10/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1008
19.3 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001
0.002
1145
20.1 | 0.071
0.07
15943
ERGM5
23/05/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1154
19.9
 | 0.031
0.08
15943
ERGMS
22/08/2019
0.002
0.001
0.001
0.001
0.001
1105
19.6 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1065
19.7 | 19 19 19 19 19 Statistical Su Number of Results 19 19 19 19 19 19 19 | 0.3 0.031 <0.05 mmary Minimum Concentration 0.002 <0.0001 <0.001 <0.001 <0.001 60.001 60.001 60.001 | 0.7
0.09
0.09
0.09
Maximum
Concentration
0.002
<0.0001
(0.002
<0.001
<0.001
(0.002
10.002 | 0.41 0.063 0.064 Average Concentration 0.002 0.0001 0.0011 0.001 1001 1001
 | 0.065
0.06
Median
Concentratio
0.002
0.0001
0.001
0.001
0.001
1010
20.1 | 0.017
0.012
Standard Deviation 0 0 0 0.00023 0 0.00032 |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsenic (Filtered) Cadmium (Filtered) Copper (Filtered) Nickel (Filtered) Nickel (Filtered) Zinc (Filtered) Tem (Filtered) Tem (Filed) Tem (Field) | mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001 0.0001 | 0.059
0.06
J5943
ERGM5
3/03/2015
0.002
<0.0001
<0.001
<0.001
<0.001
0.002 | 0.054
0.06
I5943
ERGM5
20/05/2015
0.002
<0.0001
<0.001
<0.001
<0.001
1046 | 0.048
0.05
J5943
ERGM5
12/08/2015
0.002
<0.0001
<0.001
<0.001
<0.001
 | 0.063
0.06
J5943
ERGM5
19/11/2015
0.002
<0.0001
<0.001
<0.001
<0.001
941 | 0.065
<0.05
J5943
ERGM5
11/02/2016
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.055 <0.05 15943 ERGMS 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 1010 | 0.056
<0.05
 J5943
 ERGM5
 17/08/2016
 | 0.4 0.082 0.09 I5943 ERGM5 17/11/2016 0.002 <0.0001 <0.001 <0.001 <0.001 966 | 0.072
0.06
15943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.068
0.08
J5943
ERGM5
30/08/2017
0.002
<0.0001
<0.001
<0.001
<0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
 | 0.09
0.05
J5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.071
0.06
J5943
ERGM5
23/10/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001
0.002 | 0.071
0.07
15943
ERGMS
23/05/2019
0.002
-0.0001
<0.001
<0.001
<0.001
-0.001
-0.001
 | 0.031
0.08
IS943
ERGM5
22/08/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001 | 19 19 19 19 19 Statistical Su Number of Results 19 19 19 19 19 19 19 | 0.3 0.031 <0.05 mmary Minimum Concentration 0.002 <0.0001 <0.001 <0.001 <0.001 60.001 60.001 60.001 | 0.7
0.09
0.09
0.09
Maximum
Concentration
0.002
<0.0001
(0.002
<0.001
<0.001
(0.002
10.002 | 0.41
0.063
0.064
Average
Concentration
0.002
0.0001
0.0011
0.001
0.0011
 | 0.065
0.06
Median
Concentratio
0.002
0.0001
0.001
0.001
0.001 | 0.017
0.012
Standard Deviation 0 0 0 0.00023 0 0.00032 |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsenic (Filtered) Cadmium (Filtered) Cadmium (Filtered) Lead (Filtered) Lead (Filtered) Zinc (Filtered) EC (Field EC (Field) Temp (Field) pt (Field) Miscellaneous Imorg - water | mg/L mg/L mg/L mg/L mg/L mg/L mg/L occ pH Units | 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001 0.0001 | 0.059
0.06
J5943
ERGM5
3/03/2015
0.002
<0.0001
<0.001
<0.001
0.002
1169
20.1 | 0.054
0.06
J5943
ERGM5
20/05/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.048
0.05
 J5943
 ERGM5
 12/08/2015
 -0.002
 -0.0001
 -0.001
 -0.001
 -0.001
 -0.001
 -0.001
 -0.001
 -0.001

-0.001 | 0.063
0.06
J5943
ERGMS
19/11/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
10.001 | 0.065
<0.05
J5943
ERGM5
11/02/2016
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
1020
23.3 | 0.055 <0.05 J5943 ERGM5 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 20.02 | 0.056
<0.05
 J5943
 ERGM5
 17/08/2016
 | 0.4 0.082 0.09 J5943 ERGMS 17/11/2016 0.002 <0.0001 <0.001 <0.001 0.001 966 15.4 | 0.072
0.06
I5943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.068
0.08
J5943
ERGM5
30/08/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
<0.001
<0.001
1100
20.4
 | 0.09
0.05
I5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
10.001 | 0.071
0.06
I5943
ERGMS
23/10/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1008
19.3 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001
0.002
1145
20.1 | 0.071
0.07
15943
ERGM5
23/05/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1154
19.9
 | 0.031
0.08
15943
ERGMS
22/08/2019
0.002
0.001
0.001
0.001
0.001
1105
19.6 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1065
19.7 | 19 19 19 Statistical Su Number of Results 19 19 19 19 19 19 19 19 19 19 19 19 19 | 0.3 0.031 | 0.7 0.09 0.09 0.09 0.09 Maximum Concentration 0.002 0.0001 0.0002 0.0010 0.0002 1169 23.3 7.8 | 0.41 0.063 0.064 Average Concentration 0.002 0.0001 0.0011 0.001 1001 1001
 | 0.065
0.06
0.06
Median
Concentratio
0.000
0.0001
0.001
0.001
0.001
0.001
0.001
1010
20.1
7.625 | 0.017
0.012
Standard Deviation 0 0 0 0.00023 0 0.00032 |
| Phosphorus (riflered) ChemName Dissolved Metals in Water Arsen(-[filtered) Copper (Filtered) Local (riflered) Nickel (Filtered) Nickel (Filtered) Tem (Filtered) Tem (Filtered) Miscellaneous morp - water Electrical Conductivity (Non Compen | Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L org/L org/L pH Units | 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001 0.0001 | 0.059
0.06
J5943
ERGM5
3/03/2015
0.002
<0.0001
<0.001
<0.001
0.002
1169
20.1 | 0.054
0.06
J5943
ERGM5
20/05/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.048
0.05
J5943
ERGM5
12/08/2015
0.002
<0.0001
<0.001
<0.001
<0.001
1123
16.1
 | 0.063
0.06
J5943
ERGMS
19/11/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
10.001 | 0.065
<0.05
J5943
ERGM5
11/02/2016
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
1020
23.3 | 0.055 <0.05 J5943 ERGM5 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 20.02 | 0.056
<0.05
 J5943
 ERGM5
 17/08/2016
 | 0.4 0.082 0.09 J5943 ERGMS 17/11/2016 0.002 <0.0001 <0.001 <0.001 0.001 966 15.4 | 0.072
0.06
J5943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.068
0.08
J5943
ERGM5
30/08/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
<0.001
<0.001
1100
20.4
 | 0.09
0.05
I5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
10.001 | 0.071
0.06
I5943
ERGMS
23/10/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1008
19.3 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001
0.002
1145
20.1 | 0.071
0.07
15943
ERGM5
23/05/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1154
19.9
 | 0.031
0.08
15943
ERGMS
22/08/2019
0.002
0.001
0.001
0.001
0.001
1105
19.6 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1065
19.7 | 19 19 Number of Results 19 19 19 19 19 19 19 19 19 19 19 19 19 | 0.3 0.3 0.001 0.001 0.001 Minimum Concentration 0.002 0.0001 | 0.7 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0 | 0.41 0.063 0.064 Average Concentration 0.002 0.0001 0.0011 0.001 1001 1001
 | 0.065 0.06 Median Concentratio 0.002 0.0001 0.001 0.001 0.001 1010 20.1 7.625 | 0.017
0.012
Standard Deviation 0 0 0 0.00023 0 0.00032 |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsenic (Filtered) Cadmium (Filtered) Cadmium (Filtered) Lead (Filtered) Lead (Filtered) Zinc (Filtered) Filtered) Filtered EC (Filed) pt (Filed) pt (Filed) Electrical Conductivity (Non Compen ptt (Lab) | mg/L mg/L mg/L mg/L mg/L mg/L mg/L occ pH Units | 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001 0.0001 | 0.059
0.06
J5943
ERGM5
3/03/2015
0.002
<0.0001
<0.001
<0.001
0.002
1169
20.1 | 0.054
0.06
J5943
ERGM5
20/05/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.048
0.05
 J5943
 ERGM5
 12/08/2015
 -0.002
 -0.0001
 -0.001
 -0.001
 -0.001
 -0.001
 -0.001
 -0.001
 -0.001

-0.001 | 0.063
0.06
J5943
ERGMS
19/11/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
10.001 | 0.065
<0.05
J5943
ERGM5
11/02/2016
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
1020
23.3 | 0.055 <0.05 J5943 ERGM5 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 20.02 | 0.056
<0.05
 J5943
 ERGM5
 17/08/2016
 | 0.4 0.082 0.09 J5943 ERGMS 17/11/2016 0.002 <0.0001 <0.001 <0.001 0.001 966 15.4 | 0.072
0.06
J5943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.068
0.08
J5943
ERGM5
30/08/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
<0.001
<0.001
1100
20.4
 | 0.09
0.05
I5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
10.001 | 0.071
0.06
I5943
ERGMS
23/10/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1008
19.3 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001
0.002
1145
20.1 | 0.071
0.07
15943
ERGM5
23/05/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1154
19.9
 | 0.031
0.08
15943
ERGMS
22/08/2019
0.002
0.001
0.001
0.001
0.001
1105
19.6 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1065
19.7 | 19 19 Number of Results 19 19 19 19 19 19 19 19 19 19 19 19 19 | 0.3 0.3 0.001 0.001 0.001 Minimum Concentration 0.002 0.0001 | 0.7 0.09 0.09 0.09 0.09 Maximum Concentration 0.002 0.0001 0.0002 0.0010 0.0002 1169 23.3 7.8 | 0.41 0.063 0.064 Average Concentration 0.002 0.0001 0.0011 0.001 1001 1001
 | 0.065
0.06
0.06
Median
Concentratio
0.000
0.0001
0.001
0.001
0.001
0.001
0.001
1010
20.1
7.625 | 0.017
0.012
Standard Deviation 0 0 0 0.00023 0 0.00032 |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsen(-[Ritered) Copper (Filtered) Copper (Filtered) Nickel (Filtered) Nickel (Filtered) Tem (Filtered) Tem (Filtered) Miscellaneous inorg - water Electrical Conductivity (Non Compen. pH (Eds) Miscellaneous from - water Electrical Conductivity (Non Compen. pH (Eds) Miscellaneous inorg - water | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.05 Project ID Location Coation Sampling Date PQL 0.001 0.0001 0.001 0.001 0.001 | 0.059 0.06 J5943 ERGM5 3/03/2015 0.002 <0.0001 <0.001 <0.001 0.002 1169 20.1 7.67 | 0.054 0.06 15943 ERGM5 20/05/2015 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 |
0.048
0.05
J5943
J5943
J2708/2015
0.002
-0.0001
-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 | 0.063 0.06 15943 ERGM5 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 18.9 7.77 | 0.065 -(0.05) J5943 J5943 J1994 -(0.001) | 0.055 <0.05 15943 ERGMS 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 1010 20.2 7.62 | 0.056 <0.05 I5943 ERGM5 17/08/2016 0.002 <0.0001 <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 | 0.4 0.082 0.09 J5943 ERGMS 17/11/2016 0.002 <0.0001 <0.001 <0.001 0.001 966 15.4 | 0.072
0.06
J5943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
 | 0.072
0.06
IS943
ERGM5
24/05/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.068 0.08 15943 15943 15963 15963 30/08/2017 0.002 <0.0001 <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 -0.001 | 0.083 0.07 IS943 ERGM5 22/02/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <-0.001 <-0.001 <-0.001 <-0.001 | 0.088
0.07
J5943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<1.0001
1100
20.4
7.68
 | 0.09
0.05
J5943
ERGM5
7/08/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.071
0.06
JIS943
ERGMS
23/10/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001
0.002
1145
20.1 | 0.071 0.07 0.07 0.07 0.07 0.07 0.07 0.07
 | 0.031
0.08
15943
ERGM5
22/08/2019
0.002
-0.0001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1065
19.7
7.69 | 19 19 19 Number of Results 19 19 19 19 19 19 19 19 19 19 19 19 19 | 0.3 0.3 0.001 0.001 0.001 0.002 0.0002 0.0001 | 0.7 | 0.41 0.063 0.064 Average Concentration
0.002 0.0001 0.0001 0.0011 1001 1001 20 7.6 | 0.065
0.06
0.06
Median
Concentratio
0.002
0.0001
0.001
0.001
0.001
0.001
7.625 | 0.017 0.012 |
| Phosphorus (riftered) ChemName Dissolved Metals in Water Arsenic (riftered) Copper (riftered) Copper (riftered) Nickel (riftered) Ton (riftered) Ect (field) Temp (riftered) Ect (field) Temp (riftered) Electrical Conductivity (Non Compen pH (Lab) Nutriest in Water Nutriest in Water | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.05 Project ID Location Sampling Date PQL 0.001 0.001 0.001 0.001 0.001 1 | 0.059
0.06
15943
ERGM5
3/03/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
-0.002
1169
 | 0.054
0.06
15943
15943
20/05/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.048
0.05
J5943
ERGM5
12/08/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1123
16.1
1.000
7.9
 | 0.063 0.06 0.06 0.06 0.06 0.06 0.06 0.001 0.002 0.0001 0.001 0.001 0.001 0.001 18.9 1.8.9 0.033 | 0.065 -(0.05) -(0.05) -(0.05) -(0.05) -(0.001) - | 0.055 <0.05 15943 15943 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 -0.001 | 0.056 -(0.05) IS943 ERGM5 17/08/2016 0.002 -(0.001) -(0. | 0.4 0.082 0.09 J5943 ERGM5 17/11/2016 0.002 -(0.001 | 0.072
0.06
15943
ERGM5
27/02/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
 | 0.072
0.06
15943
ERGM5
24/05/2017
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
<0.002 | 0.068 0.08 1J5943 ERGM5 30/08/2017 0.002 <0.0001 <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 <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 <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 <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 <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 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 | 0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001 |
0.088
0.07
15943
ERGM5
9/05/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<1.0001
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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. | 0.09
0.05
15943
ERGM5
7/08/2018
0.002
<0.0001
<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
<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
<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
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
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
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
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
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
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
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
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
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
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.00 | 0.071
0.06
JIS943
ERGMS
22/10/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.003 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.002
1145
20.1
7.53 |
0.071
0.07
15943
ERGMS
22/05/2019
0.002
<0.0001
<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
-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
-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
-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
-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
-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
-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
-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
-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
-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
-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
-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
-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. | 0.031
0.08
15943
ERGMS
22/08/2019
0.002
-(0.0001
-(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
-(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
-(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
-(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
-(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
-(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
-(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
-(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
-(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
-(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
-(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
-(0.001
-(0.001
-(0.001
-(0.001
-(0.001
-(0.001
-(0.001
-(0.0 | 0.044
0.08
5943
RGMS
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001
1065
19.7
7.69 | 19 19 19 19 19 19 19 Number of Results 19 19 19 19 19 19 19 19 19 19 19 19 19 | 0.3 0.31 0.031 0.031 0.031 0.031 0.031 0.031 0.002 0.0001
0.0001 | 0.7 0.09 0.09 0.09 0.09 Maximum Concentration 0.002 <0.0001 0.002 <0.0001 <0.001 0.002 23.3 7.8 1000 7.9 | 0.41 0.063 0.063 0.064 Average Concentration 0.002 0.0001 0.0001 0.0011 1001 20 7.6 | 0.065 0.06 Median Concentratio 0.002 0.0001 0.001 0.001 0.001 1010 20.1 7.625 10000 7.9 | 0.017 0.012 Standard Deviation |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsen(-[Ritered] Copper (Filtered) Copper (Filtered) Nickel (Filtered) Nickel (Filtered) Filtered) Filtered Tem (Filtered) Filtered) Miscellaneous hong-water Electrical Conductivity (Non Compen pH (Rid) Miscellaneous hong-water Electrical Conductivity (Non Compen pH (Rid) Nutrients in Water Nitrite as N (Filtered) Ammonia as N (Filtered) | Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.05 Project ID | 0.059 0.06 15943 ERGMS 160MS 3/03/2015 0.002 <0.0001 <0.001 <0.001 7.67 | 0.054
0.06
15943
ERGMS
20/05/2015
0.002
<0.0001
<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
<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
<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
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
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
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
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
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
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
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
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
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
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.00 |
0.048
0.05
J5943
J5943
J2708/2015
0.002
<0.0001
<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
-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
-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
-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
-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
-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
-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
-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
-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
-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
-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
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001 | 0.063 0.06 15943 ERGM5 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 18.9 7.77 | 0.065 -(0.05) J5943 J5943 L1/02/2016 0.002 -(0.0001 -(0.00 | 0.055 <0.05 15943 ERGM5 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 20.02 7.62 - 0.022 <0.005 | 0.056 <0.05 IS943 ERGMS 17/08/2016 0.002 <0.0001 <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 | 0.4 0.08 0.09 0.09 0.09 0.09 0.09 0.09 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 |
0.072
0.06
15943
15943
15943
27/02/2017
0.002
<0.0001
<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
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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. | 0.068 0.08 15943 ERGM5 30/08/2017 0.002 <0.0001 <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 | 0.083 0.07 15943 ERGM5 22/02/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 -0.001
 | 0.088
0.07
J5943
J5943
J5943
J5965
9/05/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1100
20.4
7.68 | 0.09 0.05 15943 ERGM5 7/08/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <1.001 <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 <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 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 | 0.071
0.06
J5943
ERGMS
23/10/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
1008
19.3
7.75 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
0.002
<0.001
<0.001
0.002
1145
20.1
7.53 | 0.071
0.07
15943
ERGMS
23/05/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1154
19-9
7.65
-
-
0.023
0.023
0.007
 | 0.031
0.08
15943
15943
15943
15943
15943
1002
10001
10001
10001
10001
1105
196
7.8
10001
1105
196
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001
10001 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1065
19.7
7.69
- | 19 19 19 19 Number of Results 19 19 19 19 19 19 19 19 19 19 19 19 19 | 0.3 0.31 0.031 0.005 mmary Minimum Concentration 0.002 0.0001 0.0001 0.0001 0.0001 0.0001 16.1 7.31 10000 7.9 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015
 | 0.7 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0 | 0.41 0.063 0.064 | 0.065
0.06
Median
Concentratio
0.002
0.0001
0.001
0.001
0.001
1010
1010
1000
17.625 | 0.017
0.012
 Standard n Deviation 0 |
| Phosphorus (riflered) ChemName Dissolved Metals in Water Arsenic (riflered) Copper (riflered) Copper (riflered) Nickel (riflered) Temp (riflered) Temp (riflered) Bit (riflered) Pit (riflered) Pit (riflered) Pit (riflered) Pit (riflered) Mickellaneous long: water Electrical Conductivity (Non Compen Pit (Lab) Nutriens in Water Ammonia as N (riflered) Ammonia as N (riflered) | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.05 Project ID Location Sampling Date PQL 0.001 0.001 0.001 0.001 0.001 1 1 | 0.059 0.06 15943 ERGM5 5ROM5 3/03/2015 0.002 <0.0001 <0.001 <0.001 0.002 1169 20.1 7.67 0.024 <0.005 0.4 | 0.054 0.06 15943 15943 15963 20/05/2015 0.002 <0.0001 <0.001 <0.001 <0.001 1046 20.5 7.6 0.02 0.01 0.2 | 0.048
0.05
J5943
ERGM5
12/08/2015
0.002
<0.0001
<0.001
<0.001
<0.001
1123
16.1
-
1000
7.9
0.02
0.02
 | 0.063 0.06 0.06 15943 ERGMS 19/11/2015 0.002 <0.0001 <0.0001 <0.0001 <0.0001 < | 0.065 -(0.05) -(0.05) -(0.05) -(0.05) -(0.05) -(0.001) -(| 0.055 <0.05 15943 15943 15943 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 1010 20.2 7.62 | 0.056 <0.05 | 0.4 0.082 0.09 J5943 ERGM5 17/11/2016 0.002 -(0.001 |
0.072
0.06
15943
ERGMS
27/02/2017
0.002
<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
<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
<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
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
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
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
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
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
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
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
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
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
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
0.00 | 0.072
0.06
15943
ERGM5
24/05/2017
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.002
<0.002
<0.002
<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
<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
<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
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
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
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
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
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
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
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
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
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
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.00 | 0.068 0.08 15943 ERGM5 30/08/2017 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.0001 <0.0001 <0.0001 <0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 | 0.083 0.07 15943 ERGMS 22/02/2018 0.002 <0.0001 <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
 | 0.088 0.07 15943 ERGM5 9/05/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <1.0001 <1.0001 <1.0001 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 | 0.09 0.05 15943 ERGM5 7/08/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <1.001 <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 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 | 0.071 0.06 JS943 JS943 0.002 0.002 0.0001 0.0001 0.0001 0.0001 0.0001 0.001 | 0.034
0.06
J5943
ERGM5
28/02/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.002
1145
20.1
7.53 | 0.071 0.07 15943 ERGMS 23/05/2019 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 -0.005 -0.001
 | 0.031
0.08
15943
15943
15943
15943
22/08/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1105
19.6
7.8
- | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<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
<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
<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
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
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
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
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
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
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
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
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
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
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001 | 19 19 19 19 19 19 19 19 Number of Results 19 19 19 19 19 19 19 19 19 19 19 19 19 | 0.3 0.301 0.005 mmary Minimum Concentration 0.002 0.0001
 | 0.7 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0 | 0.41 0.063 0.063 0.064 Average Concentration 0.002 0.0001 0.0001 0.0001 0.0011 1001 20 7.6 0.027 0.0062 0.045 | 0.065 0.06 Median Concentratio 0.002 0.0001 0.001 0.001 1010 20.1 1000 7.9 1000 0.024 0.005 0.024 0.005 0.04 | 0.017 0.012 Standard Deviation 0 0 0 0 0 0 0 0 0 |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsen (Filtered) Copper (Filtered) Copper (Filtered) Nickel (Filtered) Nickel (Filtered) Tem (Filtered) Tem (Filtered) Histel (Filtered) Miscellaneous Inorg-water Electrical Conductivity (Non Compen pH (Ida)) Miscellaneous Inorg-water Nickel (Filtered) Autorients in Water Nitrite as it (Filtered) Kiglediah Nitrogen Total (Filtered) Kiglediah Nitrogen Total (Filtered) | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.05 Project ID | 0.059 0.06 15943 ERGMS 160MS 3/03/2015 0.002 <0.0001 <0.001 <0.001 7.67 | 0.054
0.06
15943
ERGMS
20/05/2015
0.002
<0.0001
<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
<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
<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
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
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
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
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
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
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
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
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
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
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.00 |
0.048
0.05
J5943
J5943
J2708/2015
0.002
<0.0001
<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
-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
-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
-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
-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
-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
-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
-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
-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
-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
-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
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001 | 0.063 0.06 0.06 0.06 0.06 0.06 0.06 0.001 0.002 0.0001 0.001 0.001 0.001 0.001 18.9 1.8.9 0.033 | 0.065 -(0.05) J5943 J5943 L1/02/2016 0.002 -(0.0001 -(0.00 | 0.055 <0.05 15943 ERGM5 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 20.02 7.62 - 0.022 <0.005 | 0.056 <0.05 IS943 ERGMS 17/08/2016 0.002 <0.0001 <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 | 0.4 0.082 0.092 0.093 J5943 ERGM5 17/11/2016 0.002 <0.0001 <0.001 <0.001 <0.001 -0.001 |
0.072
0.06
15943
15943
15943
27/02/2017
0.002
<0.0001
<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
<0.000
<0.000
<0.001
<0.001
<0.001
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
<0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.000
0.0000
0.000
0.000
0.0000
0.0000
0.0000
0.0000
0.0000
0.000 | 0.072
0.06
J5943
ERGM5
24/05/2017
0.002
<0.0001
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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. | 0.068 0.08 15943 ERGM5 30/08/2017 0.002 <0.0001 <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 | 0.083 0.07 15943 ERGM5 22/02/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 -0.001
 | 0.088
0.07
J5943
J5943
J5943
J5965
9/05/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1100
20.4
7.68 | 0.09 0.05 15943 ERGM5 7/08/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <1.001 <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 <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 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 | 0.071
0.06
J5943
ERGMS
23/10/2018
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
<0.001
1008
19.3
7.75 | 0.034
0.06
15943
ERGM5
28/02/2019
0.002
<0.0001
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.071
0.07
15943
ERGMS
23/05/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1154
19-9
7.65
-
-
0.023
0.023
0.007
 | 0.031 0.08 15943 1.8FRGMS 122/08/2019 0.002 -(0.0001 -(0.001 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1065
19.7
7.69
- | 19 19 19 19 19 19 19 19 Number of Results 19 19 19 19 19 19 19 19 11 17 17 19 19 19 17 | 0.3 0.31 0.005 mmary Minimum Concentration 0.002 0.0001
 | 0.7 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0 | 0.41 0.063 0.064 | 0.065 0.06 Median Concentratio 0.002 0.0001 0.001 0.001 1010 1010 1020 17.625 1000 17.9 0.024 0.005 0.4 2.2 | 0.017
0.012
Standard n Deviation
0
0
0
0.00023
0
0.00032
130
1.3
0.13 | | | | | | | | | | | | | | | | | | | | | | | | |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Artsein (Filtered) Copper (Filtered) Copper (Filtered) Nickel (Filtered) Nickel (Filtered) Mickel (Filtered) Mickel (Filtered) Mickel (Filtered) Pit (Filtered) Mickellaneous long: water Electrical Conductivity (Non Compen pht (Lab) Nutrients in Water Nutritie as N (Filtered) Ammonia as N (Filtered) Ammonia as N (Filtered) Nitral (se, N) (Filtered) Nitral (se, N) (Filtered) | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.05 Project ID IP report ID I | 0.059
0.06
15943
ERGM5
3/03/2015
0.002
<0.0001
<0.001
<0.001
0.002
1169
20.1
7.67
-
-
-
-
-
-
-
-
-
-
-
-
- | 0.054 0.06 J5943 ERGM5 20/05/2015 0.002 | 0.048
0.05
15943
ERGM5
12/08/2015
0.002
<0.0001
0.0001
0.0001
1123
16.1
1000
7.9
0.02
0.008
0.7 | 0.063 0.06 15943 ERGM5 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 18.9 7.77 | 0.065 <0.05 I5943 ERGM5 I1/02/2016 0.002 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 0.0001 1020 23.3 7.41 | 0.055 <0.05 J5943 ERGM5 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 20.02 | 0.056 <0.05 5943 15943 15943 17/08/2016 17/08/2016 0.002 <0.0001 <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 <0.002 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 | 0.4 0.082 0.092 0.093 17/11/2016 17/11/2016 0.002 0.0001 0.0001 0.0001 966 19.4 7.46 | 0.072 0.06 15943 ERGM5 27/02/2017 0.002 -0.0001 -(0.001 -(0.001 -(0.001) -(0.001 -(0. | 0.072 0.06 J5943 ERGM5 24/05/2017 0.002 -0.0001 -0.001 | 0.068 0.08 15943 ERGM5 30/08/2017 0.002 <0.0001 <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 -0.001 -0.001 | 0.083 0.07 15943 ERGM5 22/02/2018 0.002 <0.0001 <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 | 0.088 0.07 J. 007 J. 00 | 0.09 0.05 15943 ERGM5 7/08/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <1.001 <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 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 | 0.071 0.06 15943 ERGMS 23/10/2018 0.002 -0.0001 -0.001 | 0.034
0.06
J.5943
ERGM5
28/02/2019
0.002
<0.001
0.002
<0.001
0.002
1145
20.1
7.53
-
-
-
-
-
-
-
-
-
-
-
-
- | 0.071 0.07 0.07 0.07 0.07 0.07 0.07 0.08 0.002 0.002 0.0001 0.001 | 0.031 0.08 15943 1:RGMS 12/08/2019 0.002 -(0.0001 -(0.001 -(0 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001
1065
19.7
7.69
-
-
-
0.02
0.02
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
-
0.001
-
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
-
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
-
0.001
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.002
-
0.00 | 19 19 19 19 19 19 19 19 19 19 19 19 19 1 | 0.3 0.301 0.005 mmary Minimum Concentration 0.002 -0.0001 -0 | 0.7 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0 | 0.41 0.063 0.063 0.064 Average Concentration 0.002 0.0001 1.0001 0.0001 0.0001 1.0001 0.0001 0.0001 1.0001 0.0001 0.0001 1.0001 0.0001 0.0001 1.0001 0.0001 | 0.065 0.06 Median Concentratio 0.002 0.0001 0.001 0.001 0.001 1010 1010 | 0.017
0.012
Standard 1
Deviation
0
0
0
0
0
0
0
0
0
0
0
0
0 |
| ChemName Dissolved Metals in Water Arsen(: [Ritered] Arsen(: [Ritered] Copper ([Ritered] Copper ([Ritered] Nickel ([Ritered] Nickel ([Ritered] Tem ([Ritered] Tem ([Ritered] Tem ([Ritered] Risel ([Ritered] Nitrice as N ([Ritered] Nitride ([Ritered] Nitride ([Ritered] Nitrogen Total ([Ritered] Nitrogen Total ([Ritered] Nitrogen (Total Oxidised) ([Ritered] Nitrogen (Total Oxidised) ([Ritered] Nitrogen (Total Oxidised) (Ritered) | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.05 Project ID | 0.059
0.06
JJ5943
ERGMS
3/03/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
7.67
 | 0.054 0.06 15943 ERGMS 20/05/2015 0.002 <0.0001 <0.001 <0.001 <0.001 1046 20.5 7.6 0.02 0.01 0.02 0.01 - 2.8 |
0.048
0.05
15943
ERGM5
12/08/2015
0.002
-0.0001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.000
-0.0001
-0.000
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0 | 0.063 0.06 15943 ERGMS 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 18.9 7.77 0.033 <0.005 - 3.8 | 0.065 <0.05 JS943 ERGMS 11/02/2016 0.002 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 0. | 0.055 <0.05 J5943 ERGM5 26/05/2016 0.002 <0.0001 <0.001 <0.001 20.001 20.2 7.62 | 0.056 -(0.05) -(0.05) -(0.05) -(0.05) -(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) -(0.002) -(0.005) - | 0.4 0.082 0.092 0.093 15943 ERGM5 17/11/2016 0.002 <0.0001 <0.0001 <0.001 0.001 0.001 0.001 -0.001 |
0.072
0.06
15943
ERGMS
27/02/2017
0.002
<0.0001
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.072 0.06 15943 ERGMS 24/05/2017 0.002 <0.0001 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 | 0.068 0.08 15943 ERGM5 30/08/2017 0.002 <0.0001 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 | 0.083 0.07 15943 ERGM5 22/02/2018 0.002 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 -0.0001
 | 0.088 0.07 J5943 ERGMS 9/05/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <1.001 -0. | 0.09 0.05 IS943 ERGMS 7/08/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <1.001 <0.001 <0.001 <0.001 19.3 7.58 0.031 <0.005 0.5 1.5 - 2 | 0.071 0.06 15943 ERGMS 23/10/2018 0.002 -0.0001 -0.0001 -0.001 -0.001 1008 19.3 7.75 0.035 -0.005 0.3 1.4 - 1.7 | 0.034 0.06 JS943 ERGMS 28/02/2019 0.002 <0.0001 0.002 <0.001 0.002 1145 20.1 7.53 0.007 0.5 - 1.4 | 0.071 0.07 15943 ERGMS 23/05/2019 0.002 -0.0001 <0.001 <0.001 <0.001 -0.001
 | 0.031 0.08 15943 RRGMS 22/08/2019 0.002 -0.0001 -0.001 -0.001 -0.001 -0.001 -7.8 | 0.044 0.08 5943 RGM5 4/11/2019 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 -0.001 | 19 19 19 19 19 19 19 19 19 19 19 19 19 1 | 0.3 0.30 0.301 0.301 0.301 0.301 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303 0.303
 | 0.7 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0 | 0.41 0.063 0.063 0.064 Average Concentration 0.002 0.0001 0.0001 0.0011 1001 20 7.6 0.027 0.0062 0.45 1.6 1.6 | 0.065 0.06 Median Concentratio 0.002 0.0001 0.001 0.001 1010 1010 1010 | 0.017 0.012 Standard Deviation Devi |
| Phosphorus (Filtered) ChemName Dissolved Metals in Water Arsenic (Filtered) Cadmium (Filtered) Cadmium (Filtered) Copper (Filtered) Nickel (Filtered) Nickel (Filtered) Temp (Filtered) Temp (Filtered) Pet (Fild) Pet (Filtered) Nutrical standard (Non Compen pet (Filtered) Nutrical standard (Non Compen pet (Filtered) Ammonia as N (Filtered) Ammonia as N (Filtered) Ammonia as N (Filtered) Nittra (as N) (Filtered) Nittra (as N) (Filtered) Total Nittogen (Filtered) Total Nittogen (Filtered) | Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/ | 0.05 Project ID | 0.059
0.06
15943
ERGM5
3/03/2015
0.002
<0.0001
<0.001
<0.001
0.002
1169
20.1
7.67
-
-
0.024
<0.004
3.4
0.04
3.4
0.04
0.04
0.04
0.05
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06
0.06 | 0.054 0.06 I5943 ERGM5 20/05/2015 0.002 -<0.0001 -<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 -<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 -<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 -<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 -<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 -<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 -<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 -<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 -<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 -<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 -<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 -<0.001 -<0.001 -<0.001 -<0.001 -<0.001 -<0.001 -<0.001 -<0. | 0.048
0.05
J5943
ERGM5
12/08/2015
0.002
<0.0001
<0.001
<0.001
1123
16.1
-1
-1
-1
-1
-1
-1
-1
-1
-1
-
 | 0.063
0.06
15943
ERGM5
19/11/2015
0.002
0.0001
0.0001
0.0001
0.0001
18.9
19.7.77
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
- | 0.005 -(-0.05) -(-0.05) -(-0.05) -(-0.05) -(-0.001) -(-0 | 0.055 <0.05 J5943 ERGM5 26/05/2016 0.002 <0.0001 <0.001 <0.001 <0.001 -0.003 -0.003 -0.003 -0.003 -0.003 -0.003 -0.003 -0.003 -0.003 -0.003 | 0.056 <0.05 5943 ERGM5 17/08/2016 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 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 | 0.4 0.082 0.099 15943 ERGM5 17/11/2016 17/11/2016 0.002 -<0.0001 -<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 -<0.001 -<0.001 -<0.001 -<0.001 -<0.001 -<0.001 -<0.001 -<0.001 -<0.001 -<0.001 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.005 -<0.0 |
0.072
0.06
15943
ERGM5
27/02/2017
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
<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
<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
<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
<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
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005
<0.005 | 0.072 0.06 15943 ERGM5 24/05/2017 0.002 -0.001 -(0.00 | 0.068 0.08 J5943 ERGM5 30/08/2017 0.002 <0.0001 <0.0001 <0.001 <0.001 <0.001 -0.005 - |
0.083
0.07
J5943
ERGM5
22/02/2018
0.002
<0.0001
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.088 0.07 0.07 0.07 0.07 0.002 0.002 0.002 0.0001 0.0001 0.0001 0.0001 1100 20.4 7.68 0.038 0.038 0.038 0.02 1.7 2.0.5 0.051 | 0.09 0.05 0.05 0.05 0.05 0.002 0.002 0.002 0.0001 0.0001 0.0001 0.0001 0.0001 0.001 | 0.071 0.06 15943 ERGMS 23/10/2018 0.002 -0.0001 -0.001 | 0.034 0.06 0.06 0.06 0.06 0.002
 | 0.071 0.07 0.07 0.07 0.07 0.07 0.07 0.07 | 0.031 0.08 15943 1ERGMS 12/08/2019 0.002 -0.0001 -0.008 | 0.044
0.08
5943
RGM5
4/11/2019
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
1065
19.7
7.69
-
-
0.02
0.02
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
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
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
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
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
0.001
0.001
0.001
0.001
0.001
0.001
0.001
 | 19 19 19 19 19 19 19 19 19 19 19 19 19 1 | 0.3 0.31 0.0031 0.005 mmary Minimum Concentration 0.002 0.0001 | 0.7 | 0.41 0.063 0.064 Average Concentration 0.002 0.0001 0.0001 0.0001 0.0001 1.00 | 0.065 0.06 Median Concentratio 0.002 0.0001 0.001 0.001 0.001 1010 1010 | 0.017 0.012 Standard Deviation O |
| ChemName Dissolved Metals in Water Arsen(: [Ritered] Arsen(: [Ritered] Copper ([Ritered] Copper ([Ritered] Nickel ([Ritered] Nickel ([Ritered] Tem ([Ritered] Tem ([Ritered] Tem ([Ritered] Risel ([Ritered] Nitrice as N ([Ritered] Nitride ([Ritered] Nitride ([Ritered] Nitrogen Total ([Ritered] Nitrogen Total ([Ritered] Nitrogen (Total Oxidised) ([Ritered] Nitrogen (Total Oxidised) ([Ritered] Nitrogen (Total Oxidised) (Ritered) | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 0.05 Project ID | 0.059
0.06
JJ5943
ERGMS
3/03/2015
0.002
<0.0001
<0.001
<0.001
<0.001
<0.001
7.67
 | 0.054 0.06 15943 ERGMS 20/05/2015 0.002 <0.0001 <0.001 <0.001 <0.001 1046 20.5 7.6 0.02 0.01 0.02 0.01 - 2.8 |
0.048
0.05
15943
ERGM5
12/08/2015
0.002
-0.0001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.001
-0.000
-0.0001
-0.000
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0.0001
-0 | 0.063 0.06 15943 ERGMS 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 18.9 7.77 0.033 <0.005 - 3.8 | 0.065 <0.05 JS943 ERGMS 11/02/2016 0.002 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 -0.0001 0 | 0.055 <0.05 J5943 ERGM5 26/05/2016 0.002 <0.0001 <0.001 <0.001 20.001 20.2 7.62 | 0.056 -(0.05) -(0.05) -(0.05) -(0.05) -(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) -(0.002) -(0.005) - | 0.4 0.082 0.092 0.093 15943 ERGM5 17/11/2016 0.002 <0.0001 <0.0001 <0.001 0.001 0.001 0.001 -0.001 |
0.072
0.06
15943
ERGMS
27/02/2017
0.002
<0.0001
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<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
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001
<0.001 | 0.072 0.06 15943 ERGMS 24/05/2017 0.002 <0.0001 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 | 0.068 0.08 15943 ERGM5 30/08/2017 0.002 <0.0001 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 <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 | 0.083 0.07 15943 ERGM5 22/02/2018 0.002 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 -0.0001
 | 0.088 0.07 J5943 ERGMS 9/05/2018 0.002 <0.0001 <0.001 <0.001 <0.001 -0. | 0.09 0.05 IS943 ERGMS 7/08/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <1.001 <0.001 <0.001 <0.001 19.3 7.58 0.031 <0.005 0.5 1.5 - 2 | 0.071 0.06 15943 ERGMS 23/10/2018 0.002 -0.0001 -0.0001 -0.001 -0.001 1008 19.3 7.75 0.035 -0.005 0.3 1.4 - 1.7 | 0.034 0.06 JS943 ERGMS 28/02/2019 0.002 <0.0001 0.002 <0.001 0.002 1145 20.1 7.53 0.007 0.5 - 1.4 | 0.071 0.07 15943 ERGMS 23/05/2019 0.002 -0.0001 <0.001 <0.001 <0.001 -0.001
 | 0.031 0.08 15943 RRGMS 22/08/2019 0.002 -0.0001 -0.001 -0.001 -0.001 -0.001 -7.8 | 0.044 0.08 5943 RGM5 4/11/2019 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 -0.001 | 19 19 19 19 19 19 19 19 19 19 19 19 19 1 | 0.3 0.31 0.0031 0.005 mmary Minimum Concentration 0.002 0.0001
0.0001 | 0.7 | 0.41 0.063 0.063 0.064 Average Concentration 0.002 0.0001 0.0001 0.0011 1001 20 7.6 0.027 0.0062 0.45 1.6 1.6 | 0.065 0.06 Median Concentratio 0.002 0.0001 0.001 0.001 1010 1010 1010 | 0.017 0.012 Standard Deviation Devi |



JDA																											
J. 555 7170		Project ID		J5943	J5943	J5943		J5943	J5943	J5943	J5943	J5943		J5943	J5943	15943	J5943	J5943	J5943		15943	I					
		Location	ERGM7	ERGM7	ERGM7	ERGM7		ERGM7	ERGM7	ERGM7	ERGM7	ERGM7		ERGM7	ERGM7	ERGM7	ERGM7	ERGM7	ERGM7		ERGM7						
Chamble and	Unit	Sampling Date POL	3/03/2015	20/05/2015	12/08/2015	19/11/2015	11/02/2016	26/05/2016	17/08/2016	17/11/2016	27/02/2017	24/05/2017	30/08/2017	22/02/2018	9/05/2018	7/08/2018	23/10/2018	28/02/2019	23/05/2019	22/08/2019	14/11/2019	Statistical Su Number of	Minimum	Maximum	Average	Median	Standard
Cheminame	Unit	PQL																				Results	Concentration	Concentration	Concentration	Concentration	Deviation
Dissolved Metals in Water																						resures	concentration	concentration	concentration	concentration	Deviation
Arsenic (Filtered)	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.006	0.001	< 0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	< 0.001	19	< 0.001	0.006	0.0013	0.001	0.0011
Cadmium (Filtered)	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	<0.0001	< 0.0001	< 0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	<0.0001	< 0.0001	19	< 0.0001	<0.0001	0.0001	0.0001	0
Copper (Filtered)	mg/L	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	0.004	<0.001	<0.001	<0.001	19	<0.001	0.004	0.0012	0.001	0.00069
Lead (Filtered)	mg/L	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	19	<0.001	0.001	0.001	0.001	0
Nickel (Filtered)	mg/L mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001 <0.001	<0.001	<0.001	0.003	<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	0.003	0.0011	0.001	0.00046
Field	IIIB/L	0.001	0.001	V0.001	V0.001	V0.001	V0.001	0.002	0.001	0.006	V0.001	0.003	0.002	0.003	0.004	\0.001	0.001	0.003	0.004	0.002	0.001	19	<0.001	0.008	0.0022	0.001	0.0018
EC (field)	uS/cm		6800	6800	6490	5440	4600	4230	5890	4667	6340	5810	4930	4040	6870	3840	6530	6290	6550	6250	6010	19	3840	6870	5704	6010	1009
Temp (Field)	oC		21.1	21.5	16.6	19.5	24.3	21	19.8	19.7	22.6	21.6	20.5	21.7	21.1	17.5	19.6	20.9	20.4	18.8	19.7	19	16.6	24.3	20	20.5	1.7
pH (Field)	pH Units		7.22	7.23	-	7.36	7.17	7.2	7.21	7.03	7.01	7.33	7.2	7.62	7.24	7.04	7.3	7.12	7.16	7.19	7.45	18	7.01	7.62	7.2	7.205	0.15
Miscellaneous Inorg - water					,	_			,			_	,				,	_	,								_
Electrical Conductivity	μS/cm	1	-	-	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			5000		5000	
pH (Lab) Nutrients in Water	pH Units		-	-	7.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	1	7.6	7.6	1	7.6	<u> </u>
Nitrite as N (Filtered)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.005	<0.005		<0.005	< 0.005	<0.005	<0.005	<0.005	< 0.005	<0.005		<0.005	<0.005	<0.005	17	<0.005	<0.005	0.005	0.005	n
Ammonia as N (Filtered)	mg/L	0.005	0.51	0.3	0.34	0.21	0.33	0.26	0.26	0.15	0.28	0.27	0.13	0.24	0.19	0.15	0.11	0.27	0.29	0.29	0.32	19	0.11	0.51	0.26	0.27	0.092
Kjeldahl Nitrogen Total (Filtered)	mg/L	0.1	2.3	2.6	2.3	1.9	2.1	2.4	1.9	1.9	2	2.4	2	2	2.2	2.2	1.7	2.6	1.8	2	1.9	19	1.7	2.6	2.1	2	0.26
Nitrate (as N) (Filtered)	mg/L	0.005	<0.005	0.011	0.034	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	0.01	17	<0.005	0.034	0.0074	0.005	0.0071
Nitrogen (Total Oxidised) (Filtered)		0.005	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	<0.005	-	<0.005	-	3	<0.005	<0.005	0.005	0.005	0
Total Nitrogen (Filtered)	mg/L	0.1	2.3	2.6	2.4	1.9	2.1	2.4	1.9	1.9	2	2.4	2	2	2.2	2.2	1.7	2.6	1.8	2	1.9	19	1.7	2.6	2.1	2	0.27
Phosphate (as P) (Filtered) Phosphorus (Filtered)	mg/L	0.005	0.37	0.42	0.21	0.28	0.21	0.44	0.32	0.36	0.43	0.4	0.29	0.39	0.44	0.33	0.33	0.34	0.56	0.47	0.54	19		0.56	0.38	0.37	0.095
rnospnorus (riitered)	mg/L	0.05	0.49	0.47	0.35	0.41	0.4	0.45	0.33	0.37	0.49	0.42	0.36	0.39	0.48	0.36	0.36	0.54	0.58	0.52	0.55	13	v.33	U.36	JJ.44	0.42	U.U/0
		Project ID	15943	J5943	J5943	J5943	J5943	J5943	J5943	J5943	15943	J5943	J5943	J5943	J5943	15943	J5943	J5943	J5943	J5943	15943	1					
		Location	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12	ERGM12		ERGM12						
		Sampling Date	3/03/2015		12/08/2015			26/05/2016				24/05/2017			9/05/2018	7/08/2018		28/02/2019	23/05/2019	22/08/2019		Statistical Su	ımmary				
ChemName	Unit	PQL																				Number of	Minimum	Maximum	Average	Median	Standard
																						Results	Concentration	Concentration	Concentration	Concentration	Deviation
Arsenic (Filtered) Cadmium (Filtered)	mg/L mg/L	0.001 0.0001	<0.001	<0.001 <0.0001	<0.001	<0.001	<0.001 <0.0001	<0.001 <0.0001	<0.001	<0.001	<0.001 <0.0001	<0.001	<0.001	<0.001 <0.0001	<0.001	<0.001 <0.0001	<0.001	<0.001 <0.0001	<0.001	<0.001 <0.0001	<0.001	19	<0.001 <0.0001	<0.001 <0.0001	0.001	0.001	0
Copper (Filtered)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.001	<0.0001	<0.001	<0.001	<0.0001	<0.001	10	<0.001	<0.0001	0.0001	0.0001	0
Lead (Filtered)	mg/L	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	19	< 0.001	<0.001	0.001	0.001	0
Nickel (Filtered)	mg/L	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	19	< 0.001	<0.001	0.001	0.001	0
Zinc (Filtered)	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	<0.001	19	< 0.001	0.014	0.0017	0.001	0.003
Field					,	,			,			,	,				,	,	,								
EC (field)	μS/cm		1265	1413	1370	1022	909	930	870	918	880	840	802	816	850	694	839	818	944	1076	1138			1413	968	909	199
Temp (Field) pH (Field)	oC pH Units		21.2 7.65	22.2 7.65	15.6	19.3 7.74	21.2 7.57	21.2 7.71	20.3 7.67	20.1 7.37	22.9 7.48	22.5 7.79	20.6 7.63	21.3 8.05	7.82	18.6 7.53	19.8 7.78	20.5 7.62	19.9 7.73	19.9 7.82	19.8 7.73			22.9 8.05	7.7	20.5 7.69	1.6 0.15
Miscellaneous Inorg - water	pn units		7.00	7.00	-	7.74	7.57	7./1	7.07	7.37	7.48	7.79	7.03	8.03	7.82	7.53	7.78	7.02	7.73	7.02	7.73	18	7.37	8.05	1.1	7.09	0.15
Electrical Conductivity	μS/cm	1	-	-	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1300	1300		1300	
pH (Lab)	pH Units		-	-	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		7.9		7.9	
Nutrients in Water																											
Nitrite as N (Filtered)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	< 0.005	<0.005	<0.005	<0.005	<0.005	< 0.005	<0.005	-	<0.005	<0.005	<0.005	17	<0.005	<0.005	0.005	0.005	0 28
Ammonia as N (Filtered) Kieldahl Nitrogen Total (Filtered)	mg/L	0.005	1.1	0.58	0.51	0.52	0.84	0.97	1.2	1.3	1.5	1.3	1.2	1.1	1.1	0.67 1.1	0.83	1.1	1.1	0.79	0.85		0.51	2.4	0.98	1.1	0.28
Nitrate (as N) (Filtered)	mg/L mg/L	0.005	0.007	0.033	0.08	<0.005	<0.005	<0.005	<0.005	1.0	<0.005	<0.005	<0.005	1.6	0.032	0.026	0.01	2.4	0.032	0.9	0.02	17	<0.005	0.08	0.017	0.007	0.02
Nitrogen (Total Oxidised) (Filtered)		0.005	-	-	-	-	-0.003	-	-	<0.005			-0.003	-	-	-	-	0.012	-	0.012	-	3	<0.005	0.012	0.0097	0.012	0.004
Total Nitrogen (Filtered)	mg/L	0.1	1.3	0.9	1.1	1	1.1	1.6	1.5	1.8	1.7	1.7	1.7	1.6	1.3	1.1	1	2.4	1.2	0.9	1.1	19	0.9	2.4	1.4	1.3	0.39
Phosphate (as P) (Filtered)	mg/L	0.005	0.11	0.12	0.098	0.1	0.097	0.094	0.091	0.095	0.098	0.096	0.086	0.091	0.09	0.091	0.073	0.08	0.099	0.088	0.098	19		0.12	0.094	0.095	0.01
Phosphorus (Filtered)	mg/L	0.05	0.11	0.12	0.1	0.1	0.08	0.08	0.07	0.11	0.1	0.08	0.09	0.08	0.07	0.08	0.06	0.08	0.099	0.07	0.09	19	0.06	0.12	0.088	0.08	0.016
					I	l				J5943	l.ee.ee	T				J5943		15943		J5943		1					
		Project ID	J5943 FRGM13	J5943 FRGM13	J5943 FRGM13	J5943 FRGM13		J5943 FRGM13	J5943 FRGM13		J5943 FRGM13	J5943 FRGM13	J5943 FRGM13	J5943 FRGM13	J5943 FRGM13		J5943 FRGM13	J5943 FRGM13	J5943 FRGM13		J5943 FRGM13	l					
		Sampling Date		20/05/2015			11/02/2016						30/08/2017		9/05/2018		23/10/2018			22/08/2019		Statistical Su	ımmary				
ChemName	Unit	PQL																				Number of	Minimum	Maximum	Average	Median	Standard
	_																					Results	Concentration	Concentration	Concentration	Concentration	Deviation
Arsenic (Filtered) Cadmium (Filtered)	mg/L	0.001	<0.001	0.001 <0.0001	0.001 <0.0001	<0.001	<0.001	0.001 <0.0001	0.001	0.001 <0.0001	<0.001 <0.0001	<0.001	0.001 <0.0001	<0.001 <0.0001	0.001	0.001 <0.0001	0.001	0.001 <0.0001	0.001 <0.0001	0.001 <0.0001	0.001	19	<0.001	0.001 <0.0001	0.001	0.001	0
Copper (Filtered)	mg/L mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	19	<0.0001	<0.0001	0.0001	0.0001	0
Lead (Filtered)	mg/L	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	19	<0.001	<0.001	0.001	0.001	o o
Nickel (Filtered)	mg/L	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	19	<0.001	<0.001	0.001	0.001	0
Zinc (Filtered)	mg/L	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	19		0.001	0.001	0.001	0
Field																											
EC (field)	μS/cm		721	713	766	685	723	800	700	799	780	780	729	814	886	267	852	934	976	928	923			976	778	780	152
Temp (Field)	oC pH Units		20.8 7.83	23 7.84	15.3	19.7 7.9	21.3 7.71	21.4 7.86	20.5 7.81	21.2 7.65	22.5 7.48	22.4 7.89	21.5 7.54	21.7 7.78	21.4 7.83	19.7 7.59	20.4 7.82	21.1 7.63	7.7	20.7 7.91	20.6			7.91	21	21.1 7.795	1.6 0.13
	pH Units	-	7.83	7.84		7.9	7.71	7.8b	7.81	7.65	7.48	7.89	7.54	7.78	7.83	7.59	7.82	7.63	1.1	7.91	7.69	10	7.48	7.91	μ./	7.795	U.13
pH (Field)					690	Π.	-	-								-						1	690	690		690	
Miscellaneous Inorg - water	uS/cm	1				1 -					+ -		<u> </u>					L i-				1	8	0	+	0.70	!
	μS/cm pH Units	1	-	-	8	-	-		-	-																8	
Miscellaneous Inorg - water Electrical Conductivity		1	-	-		-	-	-	-	-	-	-		-						-		_	Įv.	0		8	
Miscellaneous Inorg - water Electrical Conductivity ph (Lab) Nutrients in Water Nitrite as N (Filtered)	pH Units mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	17	<0.005	<0.005	0.005	0.005	0
Miscellaneous Inorg - water Electrical Conductivity pH (Lab) Nutrients in Water Nitrite as N (Filtered) Ammonia as N (Filtered)	pH Units mg/L mg/L	0.005	0.17	0.16	<0.005 0.091	0.11	0.15	0.1	0.1	0.093	0.14	0.17	0.1	0.15	0.14	0.12	0.12	0.18	0.17	0.15	0.15	17	0.091	<0.005 0.18	0.13	0.14	0
Miscellaneous Inorg - water Electrical Conductivity pH (Lab) Nutrients in Water Nitrite as N (Filtered) Ammonia as N (Filtered) Kjeldahi Nitrogen Total (Filtered)	pH Units mg/L mg/L mg/L	0.005 0.1	0.17	0.16 0.4	<0.005 0.091 0.3	0.11	0.15 0.3	0.1	0.1	- 0.093 0.3	0.14	0.17 0.3	0.1	0.15 0.3	0.14	0.12	0.12	0.18 0.4	0.17	0.15 0.3	0.15 0.3	17	0.091	0.18	0.13	0.14	0.066
Miscellaneous Inorg - water Electrical Conductivity pH (Lab) Nutrients in Water Nitrite as N (Filtered) Ammonia as N (Filtered) Kiglical Nitrogen Total (Filtered) Nitrate (as N) (Filtered)	pH Units mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005	0.17	0.16	<0.005 0.091	0.11	0.15	0.1	0.1	0.3	0.14	0.17	0.1	0.15	0.14	0.12	0.12	0.4	0.17	0.15 0.3 <0.005	0.15	17	0.091 0.2 <0.005	0.18 0.4 0.09	0.13 0.29 0.016	0.14 0.3 0.005	0.066 0.023
Miscellaneous Inorg - water Electrical Conductivity pH (Lab) Nutrients in Water Nitrite as N (Filtered) Ammonia as N (Filtered) Kjeldah Nitrogen Total (Filtered) Nitrate (as N) (Filtered) Nitrate (as N) (Filtered) Nitrogen (Total Oxidised) (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005	0.17 0.2 0.025	0.16 0.4 0.031	8 <0.005 0.091 0.3 0.054	0.11 0.2 0.09	0.15 0.3 <0.005	0.1 0.4 <0.005	0.1 0.2 <0.005	0.3 - <0.005	0.14 0.3 0.007	0.17 0.3 <0.005	0.1 0.3 <0.005	0.15 0.3 <0.005	0.14 0.3 0.006	0.12 0.2 <0.005	0.12 0.2 <0.005	0.4	0.17 0.3 0.01	0.15 0.3 <0.005 <0.005	0.15 0.3 0.006	17 19 19 17 3	0.091 0.2 <0.005 <0.005	0.18 0.4 0.09 0.008	0.13 0.29 0.016 0.006	0.14 0.3 0.005 0.005	0.066 0.023 0.0017
Miscellaneous inorg - water Electrical Conductivity pH (Lab) Nutrients in Water Nitrite as N (Filtered) Ammonia as N (Filtered) Ammonia as N (Filtered) Nitrate (as N) (Filtered) Nitrate (as N) (Filtered) Nitrogen (Total Oxideed) (Filtered) Total Nitrogen (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.1	0.17 0.2 0.025 - 0.2	0.16 0.4 0.031 - 0.4	8 <0.005 0.091 0.3 0.054 -	0.11 0.2 0.09 - 0.3	0.15 0.3 <0.005 - 0.3	0.1 0.4 <0.005 - 0.4	0.1 0.2 <0.005 - 0.2	0.3 - <0.005 0.3	0.14 0.3 0.007 - 0.3	0.17 0.3 <0.005 - 0.3	0.1 0.3 <0.005 - 0.3	0.15 0.3 <0.005 - 0.3	0.14 0.3 0.006 - 0.3	0.12 0.2 <0.005 - 0.2	0.12 0.2 <0.005 - 0.3	0.4 - 0.008 0.4	0.17 0.3 0.01 - 0.3	0.15 0.3 <0.005 <0.005 0.3	0.15 0.3 0.006 - 0.3	17 19 19 17 3	0.091 0.2 <0.005 <0.005 0.2	0.18 0.4 0.09 0.008 0.4	0.13 0.29 0.016 0.006 0.3	0.14 0.3 0.005 0.005 0.3	0.066 0.023 0.0017 0.058
Miscellaneous Inorg - water Electrical Conductivity pH (Lab) Nutrients in Water Nitrite as N (Filtered) Ammonia as N (Filtered) Kjeldahi Nitrogen Total (Filtered) Nitrate (as N) (Filtered) Nitrate (as N) (Filtered) Nitrogen Total Oxidised)	mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005	0.17 0.2 0.025	0.16 0.4 0.031	8 <0.005 0.091 0.3 0.054	0.11 0.2 0.09	0.15 0.3 <0.005	0.1 0.4 <0.005	0.1 0.2 <0.005	0.3 - <0.005	0.14 0.3 0.007	0.17 0.3 <0.005	0.1 0.3 <0.005	0.15 0.3 <0.005	0.14 0.3 0.006	0.12 0.2 <0.005	0.12 0.2 <0.005	0.4	0.17 0.3 0.01	0.15 0.3 <0.005 <0.005	0.15 0.3 0.006	17 19 19 17 3 19	0.091 0.2 <0.005 <0.005 0.2 0.08	0.18 0.4 0.09 0.008	0.13 0.29 0.016 0.006	0.14 0.3 0.005 0.005	0.066 0.023 0.0017



JDA																											
		Project ID		J5943		J5943												J5943			J5943	Ī					
					ERGM14															ERGM14							
ChemName	Unit	Sampling Date PQL	3/03/2015	20/05/2015	12/08/2015	19/11/2015	11/02/2016	26/05/2016	17/08/2016	17/11/2016	27/02/2017	24/05/2017	30/08/2017	22/02/2018	9/05/2018	7/08/2018	23/10/2018	28/02/2019	23/05/2019	22/08/2019	14/11/2019	Statistical Sumr Number of	Minimum	Maximum	Average	Median	Standard
Chemicalite	Oille	FQL																				Results	Concentration	Concentration	Concentration	Concentration	Deviation
Dissolved Metals in Water																						incours.	redirection	CONCENTION	Concentration	concentration	Deviation
Arsenic (Filtered)	mg/L	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	19	<0.001	< 0.001	0.001	0.001	0
Cadmium (Filtered)	mg/L	0.0001	< 0.0001	< 0.0001					<0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001		< 0.0001	19	<0.0001	<0.0001	0.0001	0.0001	0
Copper (Filtered)	mg/L	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	19	<0.001	<0.001	0.001	0.001	0
Lead (Filtered)	mg/L	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	19	< 0.001	<0.001	0.001	0.001	0
Nickel (Filtered)	mg/L	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	19	< 0.001	<0.001	0.001	0.001	0
Zinc (Filtered)	mg/L	0.001	0.002	< 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	0.002	0.002	0.001	<0.001	19	< 0.001	0.002	0.0012	0.001	0.00042
EC (field)	μS/cm		1337	1359	1468	1226	1174	1260	1260	1381	1380	1270	1171	1263	1427	887	1343	1444	1521	1455	1418	40	887	1521	1318	1343	145
Temp (Field)	μS/cm oC		21.2	21.2	15.1	19.6	22.5	21.3	1260	1381	22.9	22.4	11/1	21.7	21.4	20.2	20	21.1	20.9	20.6	20.4	19		22.9	21	20.9	1.7
pH (Field)	pH Units		7.49	7.51	13.1	7.75	7.45	7 49	7.51	7 18	7 23	7 57	7.74	7 59	7 57	7.42	7.57	7 27	7.5	7 59	7.32	10		7 75	7.5	7 495	0.15
Miscellaneous Inorg - water	ph onics		7.43	7.31		1.13	7.43	7.43	7.31	7.10	7.23	7.37	7.24	7.33	7.37	7.42	1.37	1.21	7.3	7.33	7.32	10	7.10	7.73	17.3	7.453	10.13
Electrical Conductivity	μS/cm	1			1200		-				-		-	-			-		-	-	-	1	1200	1200		1200	
pH (Lab)	pH Units			-	7.8	-	-	-	-	-		-	-		-	-		-		-	-	1		7.8		7.8	
Nutrients in Water																											
Nitrite as N (Filtered)	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005		< 0.005	< 0.005	< 0.005	17	< 0.005	<0.005	0.005	0.005	0
Ammonia as N (Filtered)	mg/L	0.005	0.39	0.26	0.27	0.2	0.31	0.32	0.28	0.27	0.4	0.41	0.24	0.41	0.41	0.32	0.3	0.47	0.47	0.4	0.34	19		0.47		0.32	0.078
Kjeldahl Nitrogen Total (Filtered)	mg/L	0.1	0.4	0.6	0.5	0.5	0.5	0.7	0.4	0.9	0.6	0.7	0.5	0.7	0.5	0.8	0.5	1	0.7	0.6	0.6	19	0.4	1	0.62	0.6	0.16
Nitrate (as N) (Filtered)	mg/L	0.005	0.042	0.023	0.052	0.023	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005		<0.005	<0.005	<0.005	17	<0.005	0.052	0.012	0.005	0.015
	mg/L	0.005	<u> </u>		1 :-	1 :	<u> </u>			<0.005			<u> </u>	- :		-		0.008		< 0.005		3		0.008	0.006	0.005	0.0017
Total Nitrogen (Filtered)	mg/L	0.1	0.5	0.6	0.6	0.5	0.5	0.7	0.5	0.9	0.6	0.7	0.5	0.7	0.5	0.8	0.5	1.1	0.7	0.6	0.6	19		1.1	0.64	0.6	0.16
Phosphate (as P) (Filtered) Phosphorus (Filtered)	mg/L mg/L	0.005	0.09	0.086	0.085	0.08	0.085	0.092	0.08	0.082	0.087	0.092	0.072	0.079	0.084	0.076	0.076	0.055	0.098	0.086	0.093	19	0.055	0.098	0.083	0.085	0.0095
Friosphorus (Filterea)	ing/L	0.05	0.09	0.08	0.07	0.09	0.08	0.08	U.U0	0.08	0.09	0.07	0.08	0.00	U.U0	0.00	0.07	0.07	0.1	0.07	0.09	13	0.00	0.1	0.076	0.08	0.012
	1	Project ID	15943	15943	J5943	15943	15943	15943	J5943	15943	15943	15943	J5943	15943	15943	15943	J5943	15943	15943	15943	15943	ī					
		Location		ERGM15		ERGM15						ERGM15									ERGM15	i					
		Sampling Date	3/03/2015	20/05/2015	12/08/2015	19/11/2015	11/02/2016	26/05/2016	17/08/2016	17/11/2016	27/02/2017	24/05/2017	30/08/2017	22/02/2018	9/05/2018	7/08/2018	23/10/2018	28/02/2019	23/05/2019	22/08/2019	14/11/2019	Statistical Sumr	mary				
ChemName	Unit	PQL																				Number of	Minimum	Maximum	Average	Median	Standard
																						Results	Concentration	Concentration	Concentration	Concentration	Deviation
Dissolved Metals in Water	_																										
Arsenic (Filtered)	mg/L	0.001	<0.001		0.001		0.001		0.001	0.001		<0.001		0.001			0.002	0.002			<0.001	19		0.002	0.0013	0.001	0.00048
Cadmium (Filtered)	mg/L	0.0001	< 0.0001	< 0.0001		< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	< 0.0001	<0.0001	<0.0001	19	<0.0001	<0.0001	0.0001	0.0001	0
Copper (Filtered)	mg/L	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	19	<0.001	<0.001	0.001	0.001	0
Lead (Filtered) Nickel (Filtered)	mg/L mg/L	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	19	<0.001	<0.001 <0.001	0.001	0.001	0
Zinc (Filtered)	mg/L mg/L	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	0.002	0.001	<0.001	0.001	19		0.002	0.001	0.001	0.00023
Field	IIIg/L	0.001	V0.001	V0.001	V0.001	V0.001	V0.001	V0.001	V0.001	0.001	NO.001	\0.001	0.001	NO.001	V0.001	V0.001	V0.001	0.002	0.001	V0.001	0.001	13	NO.001	0.002	0.0011	0.001	0.00023
EC (field)	μS/cm		1569	1575	1669	1403	1349	1410	1520	1587	1540	1470	1390	1436	1624	1017	1604	1598	1704	1666	1617	19	1017	1704	1513	1569	159
Temp (Field)	oC		20.8	21.4	15.7	20	23.8	21.4	20.2	19.6	23.5	21.7	20.1	21.8	21.1	18.1	19.9	21.2	20.7	20.4	20.1	19		23.8	21	20.7	1.8
pH (Field)	pH Units		7.42	7.42	-	7.51	7.32	7.42	7.35	7.16	7.16	7.52	7.38	7.46	7.46	7.34	7.48	7.08	7.42	7.57	7.8	18	7.08	7.8	7.4	7.42	0.16
Miscellaneous Inorg - water																											
Electrical Conductivity (Non Compe		1	٠	-	1600	-	-	-			-	-			-	-			-	-	-	1		1600		1600	
pH (Lab)	pH Units			-	7.7	-	-	-		-	-			-	-	-	-		-	-	-	1	7.7	7.7		7.7	
Nutrients in Water																											
Nitrite as N (Filtered)																							,				
	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	17		<0.005	0.005	0.005	0
Ammonia as N (Filtered)	mg/L	0.005	0.5	0.4	0.43	0.29	0.46	0.46	0.36	0.34	0.49	0.53	0.37	0.37	0.4	0.31	0.26	0.42	0.46	0.5	0.39	17 19	0.26	0.53	0.41	0.4	0.076
Ammonia as N (Filtered) Kjeldahl Nitrogen Total (Filtered)	mg/L mg/L	0.005	0.5	0.4	0.43 1.3	0.29	0.46	0.46	0.36	0.34 0.8	0.49	0.53	0.37	0.37	0.4	0.31	0.26	0.42 1.3	0.46	0.5 0.8	0.39 0.8	17 19 19	0.26	0.53 1.3	0.41 0.88	0.4	0.16
Ammonia as N (Filtered) Kjeldahl Nitrogen Total (Filtered) Nitrate (as N) (Filtered)	mg/L mg/L mg/L	0.005 0.1 0.005	0.5	0.4	0.43	0.29	0.46	0.46	0.36	0.8	0.49	0.53	0.37	0.37	0.4	0.31	0.26	1.3	0.46	0.5 0.8 <0.005	0.39	17 19 19 17	0.26 0.7 <0.005	0.53 1.3 0.046	0.41 0.88 0.01	0.4 0.8 0.005	0.16 0.01
Ammonia as N (Filtered) Kjeldahl Nitrogen Total (Filtered) Nitrate (as N) (Filtered) Nitrogen (Total Oxidised) (Filtered)	mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005	0.5 0.8 0.017	0.4 0.9 0.018	0.43 1.3 0.046	0.29 0.7 0.01	0.46 0.9 <0.005	0.46 1 <0.005	0.36 0.8 <0.005	0.8 - <0.005	0.49 0.9 <0.005	0.53 0.9 <0.005	0.37 0.9 0.012	0.37 0.8 <0.005	0.4 0.9 0.006	0.31 0.7 0.017	0.26 0.8 <0.005	1.3 - 0.008	0.46 0.8 <0.005	0.5 0.8 <0.005 <0.005	0.39 0.8 0.006	17 19 19 17 3	0.26 0.7 <0.005 <0.005	0.53 1.3 0.046 0.008	0.41 0.88 0.01 0.006	0.4 0.8 0.005 0.005	0.16 0.01 0.0017
Ammonia as N (Filtered) Kjeldahl Nitrogen Total (Filtered) Nitrate (as N) (Filtered) Nitrogen (Total Oxidised) (Filtered) Total Nitrogen (Filtered)	mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.1	0.5 0.8 0.017 - 0.9	0.4 0.9 0.018 -	0.43 1.3 0.046 -	0.29 0.7 0.01 - 0.7	0.46 0.9 <0.005 - 0.9	0.46 1 <0.005	0.36 0.8 <0.005 -	0.8 - <0.005 0.8	0.49 0.9 <0.005 - 0.9	0.53 0.9 <0.005	0.37 0.9 0.012 -	0.37 0.8 <0.005 -	0.4 0.9 0.006 - 0.9	0.31 0.7 0.017 -	0.26 0.8 <0.005 - 0.8	1.3 - 0.008 1.3	0.46 0.8 <0.005 - 0.8	0.5 0.8 <0.005 <0.005 0.8	0.39 0.8 0.006 - 0.8	17 19 19 17 3 19	0.26 0.7 <0.005 <0.005 0.7	0.53 1.3 0.046 0.008 1.3	0.41 0.88 0.01 0.006 0.9	0.4 0.8 0.005 0.005 0.9	0.16 0.01 0.0017 0.16
Ammonia as N (Filtered) Kjeldahl Nitrogen Total (Filtered) Nitrate (as N) (Filtered) Nitrogen (Total Oxidised) (Filtered)	mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005	0.5 0.8 0.017	0.4 0.9 0.018	0.43 1.3 0.046	0.29 0.7 0.01	0.46 0.9 <0.005	0.46 1 <0.005	0.36 0.8 <0.005	0.8 - <0.005	0.49 0.9 <0.005	0.53 0.9 <0.005	0.37 0.9 0.012	0.37 0.8 <0.005	0.4 0.9 0.006	0.31 0.7 0.017	0.26 0.8 <0.005	1.3 - 0.008	0.46 0.8 <0.005	0.5 0.8 <0.005 <0.005	0.39 0.8 0.006	17 19 19 19 17 3 19 19	0.26 0.7 <0.005 <0.005 0.7 0.089	0.53 1.3 0.046 0.008	0.41 0.88 0.01 0.006	0.4 0.8 0.005 0.005	0.16 0.01 0.0017
Ammonia as N (Filtered) Kjeldahl Nitrogen Total (Filtered) Nitrate (as N) (Filtered) Nitrogen (Total Oxidised) (Filtered) Total Nitrogen (Filtered) Phosphate (as P) (Filtered)	mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.1 0.005	0.5 0.8 0.017 - 0.9 0.16	0.4 0.9 0.018 - 0.9 0.13	0.43 1.3 0.046 - 1.3 0.14	0.29 0.7 0.01 - 0.7 0.14	0.46 0.9 <0.005 - 0.9 0.16	0.46 1 <0.005 - 1 0.17	0.36 0.8 <0.005 - 0.8 0.14	0.8 - <0.005 0.8 0.13	0.49 0.9 <0.005 - 0.9 0.17	0.53 0.9 <0.005 - 1 0.16	0.37 0.9 0.012 - 0.9 0.12	0.37 0.8 <0.005 - 0.8 0.15	0.4 0.9 0.006 - 0.9 0.17	0.31 0.7 0.017 - 0.8 0.12	0.26 0.8 <0.005 - 0.8 0.15	1.3 - 0.008 1.3 0.089	0.46 0.8 <0.005 - 0.8 0.2	0.5 0.8 <0.005 <0.005 0.8 0.14	0.39 0.8 0.006 - 0.8 0.16	17 19 19 17 17 3 19 19	0.26 0.7 <0.005 <0.005 0.7 0.089	0.53 1.3 0.046 0.008 1.3 0.2	0.41 0.88 0.01 0.006 0.9 0.15	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Kjeldahl Nitrogen Total (Filtered) Nitrate (as N) (Filtered) Nitrogen (Total Oxidised) (Filtered) Total Nitrogen (Filtered) Phosphate (as P) (Filtered)	mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.1 0.005 0.005 0.005	0.5 0.8 0.017 - 0.9 0.16 0.15	0.4 0.9 0.018 - 0.9 0.13 0.15	0.43 1.3 0.046 - 1.3 0.14 0.14	0.29 0.7 0.01 - 0.7 0.14 0.15	0.46 0.9 <0.005 - 0.9 0.16 0.14	0.46 1 <0.005 - 1 0.17 0.16	0.36 0.8 <0.005 - 0.8 0.14 0.12	0.8 - <0.005 0.8 0.13 0.16	0.49 0.9 <0.005 - 0.9 0.17 0.17	0.53 0.9 <0.005 - 1 0.16 0.15	0.37 0.9 0.012 - 0.9 0.12 0.15	0.37 0.8 <0.005 - 0.8 0.15 0.13	0.4 0.9 0.006 - 0.9 0.17 0.15	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12	0.26 0.8 <0.005 - 0.8 0.15 0.19	1.3 - 0.008 1.3 0.089 0.23	0.46 0.8 <0.005 - 0.8 0.2 0.24	0.5 0.8 <0.005 <0.005 0.8 0.14	0.39 0.8 0.006 - 0.8 0.16	17 19 19 17 3 19 19	0.26 0.7 <0.005 <0.005 0.7 0.089	0.53 1.3 0.046 0.008 1.3 0.2	0.41 0.88 0.01 0.006 0.9 0.15	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Kjeldahl Nitrogen Total (Filtered) Nitrate (as N) (Filtered) Nitrogen (Total Oxidised) (Filtered) Total Nitrogen (Filtered) Phosphate (as P) (Filtered)	mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.1 0.005 0.05 Project ID Location	0.5 0.8 0.017 - 0.9 0.16 0.15	0.4 0.9 0.018 - 0.9 0.13 0.15	0.43 1.3 0.046 - 1.3 0.14 0.14 15943 ERGM17	0.29 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17	0.46 0.9 <0.005 - 0.9 0.16 0.14 J5943 ERGM17	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17	0.36 0.8 <0.005 - 0.8 0.14 0.12 JS943 ERGM17	0.8 - <0.005 0.8 0.13 0.16	0.49 0.9 <0.005 - 0.9 0.17 0.17 J5943 ERGM17	0.53 0.9 <0.005 - 1 0.16 0.15 J5943 ERGM17	0.37 0.9 0.012 - 0.9 0.12 0.15 J5943 ERGM17	0.37 0.8 <0.005 - 0.8 0.15 0.13 J5943 ERGM17	0.4 0.9 0.006 - 0.9 0.17 0.15	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12	0.26 0.8 <0.005 - 0.8 0.15 0.19 JS943 ERGM17	1.3 - 0.008 1.3 0.089 0.23	0.46 0.8 <0.005 - 0.8 0.2 0.24 J5943 ERGM17	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14	0.39 0.8 0.006 - 0.8 0.16 0.16	17 19 19 17 3 19 19 19	0.26 0.7 <0.005 <0.005 0.7 0.089	0.53 1.3 0.046 0.008 1.3 0.2	0.41 0.88 0.01 0.006 0.9 0.15	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Kjeldabi Nrogen Total (Filtered) Nitrate (as N) (Filtered) Nitrate (as N) (Filtered) Nitrogen (Total Oxidosid) (Filtered) Total Nitrogen (Filtered) Phosphate (as P) (Filtered) Phosphorus (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.1 0.005 0.05 Project ID Location Sampling Date	0.5 0.8 0.017 - 0.9 0.16 0.15	0.4 0.9 0.018 - 0.9 0.13 0.15	0.43 1.3 0.046 - 1.3 0.14 0.14 15943 ERGM17	0.29 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17	0.46 0.9 <0.005 - 0.9 0.16 0.14 J5943 ERGM17	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17	0.36 0.8 <0.005 - 0.8 0.14 0.12 JS943 ERGM17	0.8 - <0.005 0.8 0.13 0.16	0.49 0.9 <0.005 - 0.9 0.17 0.17 J5943 ERGM17	0.53 0.9 <0.005 - 1 0.16 0.15 J5943 ERGM17	0.37 0.9 0.012 - 0.9 0.12 0.15 J5943 ERGM17	0.37 0.8 <0.005 - 0.8 0.15 0.13 J5943 ERGM17	0.4 0.9 0.006 - 0.9 0.17 0.15	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12	0.26 0.8 <0.005 - 0.8 0.15 0.19 JS943 ERGM17	1.3 - 0.008 1.3 0.089 0.23	0.46 0.8 <0.005 - 0.8 0.2 0.24 J5943 ERGM17	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14	0.39 0.8 0.006 - 0.8 0.16 0.16	17 19 19 17 3 19 19	0.26 0.7 <0.005 <0.005 0.7 0.089 0.12	0.53 1.3 0.046 0.008 1.3 0.2 0.24	0.41 0.88 0.01 0.006 0.9 0.15 0.16	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Kjeldahl Nitrogen Total (Filtered) Nitrate (as N) (Filtered) Nitrogen (Total Oxidised) (Filtered) Total Nitrogen (Filtered) Phosphate (as P) (Filtered)	mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.1 0.005 0.05 Project ID Location	0.5 0.8 0.017 - 0.9 0.16 0.15	0.4 0.9 0.018 - 0.9 0.13 0.15	0.43 1.3 0.046 - 1.3 0.14 0.14 15943 ERGM17	0.29 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17	0.46 0.9 <0.005 - 0.9 0.16 0.14 J5943 ERGM17	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17	0.36 0.8 <0.005 - 0.8 0.14 0.12 JS943 ERGM17	0.8 - <0.005 0.8 0.13 0.16	0.49 0.9 <0.005 - 0.9 0.17 0.17 J5943 ERGM17	0.53 0.9 <0.005 - 1 0.16 0.15 J5943 ERGM17	0.37 0.9 0.012 - 0.9 0.12 0.15 J5943 ERGM17	0.37 0.8 <0.005 - 0.8 0.15 0.13 J5943 ERGM17	0.4 0.9 0.006 - 0.9 0.17 0.15	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12	0.26 0.8 <0.005 - 0.8 0.15 0.19 JS943 ERGM17	1.3 - 0.008 1.3 0.089 0.23	0.46 0.8 <0.005 - 0.8 0.2 0.24 J5943 ERGM17	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical Signature of	0.39 0.8 0.006 - 0.8 0.16 0.16	17 19 19 17 3 19 19 19	0.26 0.7 <0.005 <0.005 0.7 0.089 0.12	0.53 1.3 0.046 0.008 1.3 0.2 0.24	0.41 0.88 0.01 0.006 0.9 0.15 0.16	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N. Frijlered; Njeddah N. Nari (Filered) Nitrate (as N) (Filered) Nitrate (as N) (Filered) Nitrogen (Total Oxidised) (Filtered) Total Nitrogen (Filtered) Phosphorus (Piltered) Phosphorus (Piltered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.1 0.005 0.05 Project ID Location Sampling Date	0.5 0.8 0.017 - 0.9 0.16 0.15	0.4 0.9 0.018 - 0.9 0.13 0.15	0.43 1.3 0.046 - 1.3 0.14 0.14 15943 ERGM17	0.29 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17	0.46 0.9 <0.005 - 0.9 0.16 0.14 J5943 ERGM17	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17	0.36 0.8 <0.005 - 0.8 0.14 0.12 JS943 ERGM17	0.8 - <0.005 0.8 0.13 0.16	0.49 0.9 <0.005 - 0.9 0.17 0.17 J5943 ERGM17	0.53 0.9 <0.005 - 1 0.16 0.15 J5943 ERGM17	0.37 0.9 0.012 - 0.9 0.12 0.15 J5943 ERGM17	0.37 0.8 <0.005 - 0.8 0.15 0.13 J5943 ERGM17	0.4 0.9 0.006 - 0.9 0.17 0.15	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12	0.26 0.8 <0.005 - 0.8 0.15 0.19 JS943 ERGM17	1.3 - 0.008 1.3 0.089 0.23	0.46 0.8 <0.005 - 0.8 0.2 0.24 J5943 ERGM17	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14	0.39 0.8 0.006 - 0.8 0.16 0.16	17 19 19 17 17 3 19 19 19 19	0.26 0.7 <0.005 <0.005 0.7 0.089 0.12	0.53 1.3 0.046 0.008 1.3 0.2 0.24	0.41 0.88 0.01 0.006 0.9 0.15 0.16	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Sjeldah N (Filtered) Nitzate (as N) (Filtered) Nitzate (as N) (Filtered) Nitzate (as N) (Filtered) Total Mitzagen (Filtered) Total Mitzagen (Filtered) Phosphorus (Filtered) Phosphorus (Filtered) Dissolved Metals in Water	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.005 0.1 0.005 0.05 Project ID Location Sampling Date	0.5 0.8 0.017 - 0.9 0.16 0.15 J5943 ERGM17 12/08/2015	0.4 0.9 0.018 - 0.9 0.13 0.15 J5943 ERGM17 19/11/2015	0.43 1.3 0.046 - 1.3 0.14 0.14 15943 ERGM17 5 11/02/2016	0.29 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17 26/05/2016	0.46 0.9 <0.005 - 0.9 0.16 0.14 J5943 ERGM17 17/08/2016	0.46 1 <0.005 - 1 0.17 0.16 I5943 ERGM17 17/11/2016	0.36 0.8 <0.005 - 0.8 0.14 0.12 J5943 ERGM17 27/02/2017	0.8 - <0.005 0.8 0.13 0.16 J5943 ERGM17 24/05/2017	0.49 0.9 <0.005 - 0.9 0.17 0.17 J5943 ERGM17 30/08/2017	0.53 0.9 <0.005 - 1 0.16 0.15 I5943 ERGM17 22/02/2018	0.37 0.9 0.012 - 0.9 0.12 0.15 J5943 ERGM17 9/05/2018	0.37 0.8 <0.005 - 0.8 0.15 0.13 J5943 ERGM17 7/08/2018	0.4 0.9 0.006 - 0.9 0.17 0.15 J5943 ERGM17 23/10/2018	0.31 0.7 0.017 - 0.8 0.12 0.12 15943 ERGM17 28/02/2019	0.26 0.8 <0.005 - 0.8 0.15 0.19 J5943 ERGM17 23/05/2019	1.3 - 0.008 1.3 0.089 0.23 US943 ERGM17 22/08/2019	0.46 0.8 <0.005 - 0.8 0.2 0.24 J5943 ERGM17 14/11/2019	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical Signature of	0.39 0.8 0.006 0.8 0.16 0.16 0.16 Minimum Concentration	Concentration	0.26 0.7 0.005 <0.005 0.7 0.089 0.12 Average Concentration	0.53 1.3 0.046 0.008 1.3 0.2 0.24 Median Concentration	0.41 0.88 0.01 0.006 0.9 0.15 0.16 Standard Deviation	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N. Frijlered; Njeddah N. Nari (Filered) Nitrate (as N) (Filered) Nitrate (as N) (Filered) Nitrogen (Total Oxidised) (Filtered) Total Nitrogen (Filtered) Phosphorus (Piltered) Phosphorus (Piltered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.1 0.005 0.05 Project ID Location Sampling Date	0.5 0.8 0.017 - 0.9 0.16 0.15	0.4 0.9 0.018 - 0.9 0.13 0.15	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 15943 ERGM17 6 11/02/2016	0.29 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17	0.46 0.9 <0.005 - 0.9 0.16 0.14 J5943 ERGM17 17/08/2016	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17	0.36 0.8 <0.005 - 0.8 0.14 0.12 JS943 ERGM17	0.8 - <0.005 0.8 0.13 0.16	0.49 0.9 <0.005 - 0.9 0.17 0.17 J5943 ERGM17	0.53 0.9 <0.005 - 1 0.16 0.15 J5943 ERGM17	0.37 0.9 0.012 - 0.9 0.12 0.15 J5943 ERGM17	0.37 0.8 <0.005 - 0.8 0.15 0.13 J5943 ERGM17	0.4 0.9 0.006 - 0.9 0.17 0.15	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12	0.26 0.8 <0.005 - 0.8 0.15 0.19 JS943 ERGM17	1.3 - 0.008 1.3 0.089 0.23	0.46 0.8 <0.005 - 0.8 0.2 0.24 J5943 ERGM17	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical Signature of	0.39 0.8 0.006 - 0.8 0.16 0.16		0.26 0.7 0.005 <0.005 0.7 0.089 0.12 Average Concentration	0.53 1.3 0.046 0.008 1.3 0.2 0.24	0.41 0.88 0.01 0.006 0.9 0.15 0.16	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Syledah Nichael (as N) (Filtered) Nitzaet (as N) (Filtered) Nitzaet (as N) (Filtered) Nitzaet (as N) (Filtered) Nitzaet (as N) (Filtered) Total Nitzaet (as N) Phosphare (Filtered) Phosphorus (Filtered) Phosphorus (Filtered) Dissolved Metals in Water Arsenic (Filtered) Cadmium (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 Project ID Location Sampling Date PQL 0.001	0.5 0.8 0.017 - 0.9 0.16 0.15 J5943 ERGM17 12/08/2015	0.4 0.9 0.018 - 0.9 0.13 0.15 15943 ERGM17 19/11/2015	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 15943 ERGM17 5 11/02/2016	0.29 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17 26/05/2016	0.46 0.9 <0.005 - 0.9 0.16 0.14 J5943 ERGM17 17/08/2016	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17 17/11/2016	0.36 0.8 <0.005 - 0.8 0.14 0.12 J5943 ERGM17 27/02/2017	0.8	0.49 0.9 <0.005 - 0.9 0.17 0.17 0.17 J5943 ERGM17 30/08/2017	0.53 0.9 <0.005 - 1 0.16 0.15 J5943 ERGM17 22/02/2018	0.37 0.9 0.012 - 0.9 0.12 0.15 J5943 ERGM17 9/05/2018	0.37 0.8 <0.005 - 0.8 0.15 0.13 J5943 ERGM17 7/08/2018	0.4 0.9 0.006 - 0.9 0.17 0.15 J5943 ERGM17 23/10/2018	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12 J5943 ERGM17 28/02/2019	0.26 0.8 <0.005 - 0.8 0.15 0.19 J5943 ERGM17 23/05/2019	1.3 - 0.008 1.3 0.089 0.23 J5943 ERGM17 22/08/2019	0.46 0.8 <0.005 - 0.8 0.2 0.24 J5943 ERGM17 14/11/2019	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical Signature of	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 Minimum Concentration 0.002	Concentration 0.011	0.26 0.7 0.005 <0.005 0.7 0.089 0.12 Average Concentration	0.53 1.3 0.046 0.008 1.3 0.2 0.24 Median Concentration	0.41 0.88 0.01 0.006 0.9 0.15 0.16 Standard Deviation	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Fight cel) Gjeldahi Nik (Fight cel) Nik ate (as N) (Filtered) Nik rogen (Filtered) Nik rogen (Filtered) Nik rogen (Filtered) Total Nikrogen (Filtered) Total Nikrogen (Filtered) Phosphate (S Pildered) ChemName ChemName ChemName Arami, (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.005 0.1 0.005 0.05 Project ID Location Sampling Date PQL 0.001	0.5 0.8 0.017 - 0.9 0.16 0.15 J5943 ERGM17 12/08/2015	0.4 0.9 0.018 - 0.9 0.13 0.15 J5943 ERGM17 19/11/2015	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 15943 ERGM17 5 11/02/2016	0.29 0.7 0.01 - 0.7 0.14 0.15 I5943 ERGM17 26/05/2016	0.46 0.9 <0.005 - 0.9 0.16 0.14 J5943 ERGM17 17/08/2016	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17 17/11/2016	0.36 0.8 <0.005 - 0.8 0.14 0.12 J5943 ERGM17 27/02/2017	0.8 - <0.005 0.8 0.13 0.16 J5943 ERGM17 24/05/2017	0.49 0.9 <0.005 - 0.9 0.17 0.17 55943 ERGM17 30/08/2017	0.53 0.9 <0.005 - 1 0.16 0.15 IS943 ERGM17 22/02/2018	0.37 0.9 0.012 - 0.9 0.12 0.15 J5943 ERGM17 9/05/2018	0.37 0.8 <0.005 - 0.8 0.15 0.13 J5943 ERGM17 7/08/2018	0.4 0.9 0.006 - 0.9 0.17 0.15 15943 ERGM17 23/10/2018	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12 J5943 ERGM17 28/02/2019	0.26 0.8 <0.005 	1.3 - 0.008 1.3 0.089 0.23 15943 ERGM17 22/08/2019	0.46 0.8 <0.005 - 0.8 0.2 0.24 J5943 ERGM17 14/11/2019	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical Signature of	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 0.16 0.002	0.011 <0.0001	0.26 0.7 0.005 <0.005 0.7 0.089 0.12 Average Concentration	0.53 1.3 0.046 0.008 1.3 0.2 0.24 Median Concentration	0.41 0.88 0.01 0.006 0.9 0.15 0.16 Standard Deviation 0.0026	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Spiedah Nincipel (Tollered) Nitrate (as N) (Filtered) Nitrate (as N) (Filtered) Nitrate (as N) (Filtered) Total Nitrogen (Filtered) Total Nitrogen (Filtered) Phosphate (Filtered) Phosphorus (Filtered) ChemName Ossolved Metals in Water Araenic (Filtered) Cadmium (Filtered) Cadmium (Filtered) Lead (Filtered) Lead (Filtered) Lead (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.005 0.005 0.005 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001	0.5 0.8 0.017 - 0.9 0.16 0.15 JS943 ERGM17 12/08/2015 0.003 <0.0001 <0.0001 <0.0001 <0.0001	0.4 0.9 0.018 - 0.9 0.13 0.15 IS943 ERGM17 19/11/2015 - 0.002 <0.0001 <0.001 <0.001	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 0.14 0.19 15943 ERGM17 5 11/02/2016 0.003 - 0.0001 - 0.0001 - 0.001 - 0.001 - 0.001	0.29 0.7 0.01 - 0.7 0.14 0.15 15943 ERGM17 26/05/2016	0.46 0.9 <	0.46 1 1 <0.005 - 1 0.17 0.16 IS943 ERGM17 17/11/2016 0.005 <0.0001 <0.001 <0.001 <0.001	0.36 0.8 <0.005 - 0.8 0.14 0.12 JS943 ERGM17 27/02/2017 0.004 <0.0001 <0.0001 <0.0001 <0.0001	0.8	0.49 0.9 <0.005 - 0.9 0.17 0.17 0.17 15943 ERGM17 30/08/2017 0.011 <0.0001 <0.001 <0.001 <0.001	0.53 0.9 <0.005 - 1 0.16 0.15 JS943 ERGM17 22/02/2018 0.01 <0.001 <0.001 <0.001	0.37 0.9 0.012 - 0.9 0.12 0.15 0.15 15943 ERGM17 9/05/2018 0.002 <0.0001 0.001 <0.001 <0.001	0.37 0.8 <0.005 - 0.8 0.15 0.13 JS943 ERGM17 7/08/2018 0.004 <0.0001 <0.0001 <0.0001	0.4 0.9 0.006 - 0.9 0.17 0.15 JS943 ERGM17 23/10/2018 0.005 <0.0001 0.001 <0.001 0.001	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12 0.12 0.12 0.12 0.00	0.26 0.8 <0.005 - 0.8 0.15 0.19 0.19 0.19 0.19 0.001 0.001 0.003 0.003 0.0001 0.0001 0.0001 0.0001 0.0001	1.3	0.46 0.8 <0.005 - 0.8 0.2 0.24 15943 ERGM17 14/11/2019 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical Signature of	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 0.16 0.10 0.001 0.002 0.0001 0.0001 0.0001	0.011 <0.0001 0.003 <0.001 0.001	0.26 0.7 0.005 0.7 0.005 0.7 0.089 0.12 Average Concentration 0.0041 0.0001 0.0001 0.0001	0.53 1.3 0.046 0.008 1.3 0.2 0.24 Median Concentration 0.003 0.0001 0.0001 0.0001	0.41 0.88 0.01 0.001 0.006 0.9 0.15 0.16 Standard Deviation 0.0026 0 0.00049 0	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Sjeddah Nicket (as N) (Filtered) Nitzake (as N) (Filtered) Nitzoken Chaudadued (Filtered) Total Nitrogen (Filtered) Phosphare (Filtered) Phosphorus (Filtered) Phosphorus (Filtered) Dissolved Metals in Water Arsenic (Filtered) Cadmium (Filtered) Cadmium (Filtered) Cadmium (Filtered) Cadmium (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.005 0.005 0.005 0.005 0.005 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001	0.5 0.8 0.017 - 0.9 0.16 0.15 S943 ERGM17 12/08/2015 0.003 <0.0001 <0.001 <0.001	0.4 0.9 0.018 - 0.9 0.13 0.15 J5943 ERGM17 19/11/2015 - 0.002 -<0.0001 -<0.0001	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 0.14 0.19 15943 ERGM17 5 11/02/2016 0.003 - 0.0001 - 0.0001 - 0.001 - 0.001 - 0.001	0.29 0.7 0.01 - 0.7 0.14 0.15 ERGM17 26/05/2016	0.46 0.9 <	0.46 1 1 <0.005 - 1 0.17 0.16 IS943 ERGM17 17/11/2016 0.005 <0.0001 <0.001 <0.001 <0.001	0.36 0.8 <0.005 - 0.8 0.14 0.12 0.12 J5943 ERGM17 27/02/2017 0.004 <0.0001 <0.001 <0.001 <0.001	0.8 - <0.005 0.8 0.13 0.16 I5943 ERGM17 24/05/2017 0.003 <0.0001 <0.0001 <0.0001	0.49 0.9 <0.005 - 0.9 0.17 0.17 15943 ERGM17 30/08/2017 0.011 <0.001 <0.001 <0.001	0.53 0.9 <0.005 - 1 0.16 0.15 22/02/2018 0.01 - 0.01 0.01	0.37 0.9 0.012 - 0.9 0.12 0.15 0.15 J5943 ERGM17 9/05/2018	0.37 0.8 <0.005 - 0.8 0.15 0.13 J5943 ERGM17 7/08/2018 0.004 <0.0001 <0.001 <0.001	0.4 0.9 0.006 - 0.9 0.17 0.15 J5943 ERGM17 23/10/2018 0.005 <0.0001 <0.001 <0.001	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.003 <0.0001 0.003 <0.0001	0.26 0.8 <0.005 - 0.8 0.15 0.19 J5943 ERGM17 23/05/2019 0.003 <0.0001 <0.0001 <0.0001	1.3 - 0.008 1.3 0.089 0.23 15943 ERGM17 22/08/2019 - 0.003 -0.0001 -<0.001 -<0.001	0.46 0.8 <0.005 	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical Signature of	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 0.16 0.016	0.011 <0.0001 0.003 <0.001	0.26 0.7 0.005 0.7 0.005 0.7 0.089 0.12 Average Concentration 0.0041 0.0001 0.0001 0.0001	0.53 1.3 0.046 0.008 1.3 0.2 0.24 Median Concentration 0.003 0.0001 0.0001	0.41 0.88 0.01 0.006 0.9 0.15 0.16 Standard Deviation 0.0026	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Spieddah Nicrae (as N) (Filtered) Nitzaet (as N) (Filtered) Nitzaet (as N) (Filtered) Nitzaet (as N) (Filtered) Total Nitzoen (Filtered) Total Nitzoen (Filtered) Phosphate (as P) (Filtered) Phosphate (B) (Filtered) Arsenic (Filtered) Casphor (Filtered) Casper (Filtered) Lead (Filtered) Lead (Filtered) Zinc (Filtered) Zinc (Filtered) Zinc (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.005 0.005 0.005 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001	0.5 0.8 0.017 0.017 0.16 0.15 0.15 15943 ERGM17 12/08/2015 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.018 0.018 0.018 0.019 0.15 0.15 0.15 15943 ERGM17 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001	0.43 1.3 0.046 1.3 0.14 0.14 0.14 0.15943 ERGM17 11/02/2016 0.003 -0.0001 -0.001 -0.001 -0.001 -0.001	0.29 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17 26/05/2016 0.003 <0.0001 <0.001 <0.001 <0.001	0.46 0.9 <0.005 - 0.9 0.16 0.14 J5943 ERGM17 17/08/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001	0.46 1 1 <0.005 - 1 0.17 0.16 J5943 ERGM17 17/11/2016 0.005 <0.0001 <0.0001 <0.0001 0.0001	0.36 0.8 <0.005 - 0.8 0.14 0.12 J5943 ERGM17 27/02/2017 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001	0.8 -(0.005 0.8 0.13 0.16 15943 ERGM17 24/05/2017 0.003 <0.0001 <0.001 <0.001 <0.001	0.49 0.9 <0.005 - 0.9 0.17 0.17 0.17 30/08/2017 0.011 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.53 0.9 <0.005 - 1 0.16 0.15 IS943 ERGM17 22/02/2018 0.01 <0.0001 <0.0001 <0.0001 <0.0001 0.0008	0.37 0.9 0.012 - 0.9 0.12 0.15 15943 ERGM17 9/05/2018 0.002 <0.0001 - 0.001 <0.001 <0.001	0.37 0.8 <0.005 - 0.8 0.15 0.13 15943 ERGM17 7/08/2018 0.004 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.4 0.9 0.006 - 0.9 0.17 0.15 15943 ERGM17 23/10/2018 0.005 <0.0001 0.001 <0.001 <0.001	0.31 0.7 0.017 0.017 0.8 0.12 0.12 0.12 0.12 0.012 0.001 0.003 <0.0001 0.003 <0.0001 0.003	0.26 0.8 <0.005 - 0.8 0.15 0.19 0.19 15943 ERGM17 23/05/2019 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001	1.3	0.46 0.8 <-0.005 -0.8 0.2 0.24 0.24 0.024 0.001 0.002 0.0001 0.0001 0.0001 0.0001	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St. Number of Results 17 17 17 17 17	0.39 0.8 0.000 - 0.000 - 0.16 0.16 0.16 0.16 0.001 0.002 - 0.0001 - 0.001 - 0.001 - 0.001	Concentration 0.011 <0.0001 0.003 <0.001 0.001 0.001	0.26 0.7 <0.005 <0.005 <0.005 0.7 0.089 0.12 Average Concentration 0.0041 0.0001 0.0001 0.0001 0.0010 0.0010	0.53 1.3 0.046 0.008 1.3 0.2 0.2 0.24 Median Concentration 0.003 0.0001 0.0001 0.0001 0.0001 0.0001	0.41 0.88 0.01 0.006 0.9 0.15 0.16 Standard Deviation 0.0026 0 0.00049 0 0.0018	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Fighred) Gjeldah N (Fighred) Nitzate (as N) (Filbred) Nitzate (as N) (Filbred) Nitzate (as N) (Filbred) Nitzate (as N) (Filbred) Total Nitogen (Filbred) Total Nitogen (Filbred) Phosphate as P (Filbred) Phosphate (Pilbred) Phosphate (Pilbred) Phosphate (Pilbred) Cammon (Filbred) Cammon (Filbred) Cammon (Filbred) Copper (Filbred) Nickel (Filbred) Zinc (Filbred) Red EC (Red)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.005 0.005 0.005 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001	0.5 0.8 0.017 - 0.9 0.16 0.15 ERGM17 12/08/2015 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.018 - 0.9 0.13 0.15 I5943 ERGM17 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001	0.43 1.3 0.046 1.3 0.14 0.14 0.14 0.14 0.19 15943 ERGM17 511/02/2016 0.003 -0.001 -0.001 -0.001 -0.001 -0.001	0.29 0.7 0.01 - 0.7 0.14 0.15 15943 ERGM17 26/05/2016 0.003 <0.0001 <0.001 <0.001 <0.001	0.46 0.9 <0.005 - 0.9 0.16 0.14 I5943 ERGM17 17/08/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001	0.46 1 1 <0.005 - 1 0.17 0.16 I5943 ERGM17 17/11/2016 0.005 <0.0001 <0.0001 <0.0001 742	0.36 0.8 <0.005 - 0.8 0.14 0.12 JS943 ERGM17 27/02/2017 0.004 <0.001 <0.001 <0.001 <0.001 <0.001	0.8 -(0.005 0.8 0.13 0.16 0.16 15943 ERGM17 24/05/2017 0.003 -(0.0001 -(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) -(0.49 0.9 <0.005 - 0.9 0.17 0.17 0.17 15943 ERGM17 30/08/2017 0.011 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.53 0.9 <0.005 - 1 0.16 0.15 IS943 ERGM17 22/02/2018 0.01 <0.001 <0.001 <0.001 <0.001 0.008	0.37 0.9 0.012 0.15 0.15 0.15 0.15 0.15 0.01 0.01 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.37 0.8 <0.005 - 0.8 0.15 0.13 JS943 ERGM17 7/08/2018 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.006 - 0.9 0.17 0.15 IS943 ERGM17 23/10/2018 0.005 <0.0001 0.001 <0.001 <0.001 <1814	0.31 0.7 0.017 - 0.8 0.8 0.12 0.12 0.12 0.12 15943 ERGM17 28/02/2019 0.003 <0.001 0.003 <0.001 0.003	0.26 0.8 <0.005 -0.001 0.15 0.19 J5943 ERGM17 23/05/2019 0.003 <0.001 <0.001 <0.001 0.003 1165	1.3	0.46 0.8 <0.005 - 0.8 0.2 0.2 0.24 0.24 0.9 0.24 0.01 0.001 0.001 0.001 0.001 1231	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St. Number of Results 17 17 17 17 17	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 0.10 0.001 0.002 0.0001 0.0001 0.0001	Concentration 0.011 <0.0001 0.003 <0.001 0.0001 0.0008	0.26 0.7 (-0.005 0.7 (-0.005 0.7 0.089 0.12 Average Concentration 0.0041 0.0001 0.0001 0.0001 0.0001 961	0.53 1.3 0.046 0.008 1.3 0.2 0.24 Median Concentration 0.003 0.0001 0.0001 0.0001 0.0001 0.0001	0.41 0.88 0.01 0.00 0.00 0.9 0.15 0.16 Standard Deviation 0.0026 0 0.00049 0 0.00049 0 0.0018	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Gieldah Nicate (as N) (Filtered) Nitzate (as N) (Filtered) Nitzate (as N) (Filtered) Nitzate (as N) (Filtered) Total Nitzogen (Filtered) Total Nitzogen (Filtered) Phosphorus (Filtered) Phosphorus (Filtered) Carlon (Filtered) Carlon (Filtered) Capper (Filtered) Lead (Filtered) Lead (Filtered) Lead (Filtered) Lead (Filtered) Temp (Filtered) Temp (Filtered) Temp (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.005 0.005 0.005 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001	0.5 0.8 0.017 0.017 0.16 0.15 0.15 15943 ERGM17 12/08/2015 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.018 - 0.9 0.13 0.15 J5943 ERGM17 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 15943 ERGM17 11/02/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.29 0.7 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17 26/05/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.46 0.9 <0.005 -0.9 0.16 0.14 J5943 ERGM17 17/08/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17 17/11/2016 0.005 <0.0001 <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	0.36 0.8 <0.005 <0.005 - 0.8 0.14 0.12 J5943 ERGM17 27/02/2017 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.8	0.49 0.9 0.005 - 0.9 0.17 0.17 0.17 J5943 ERGM17 30/08/2017 0.011 <0.0001 <0.001 <0.001 <0.001 <1.001 <0.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.	0.53 0.9 <0.005 - 1 0.16 0.15 IS943 ERGM17 22/02/2018 0.01 <0.0001 <0.0001 <0.0001 -0.0001 0.0008 1428 23	0.37 0.9 0.012 0.9 0.12 0.15 J5943 ERGM17 9/05/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 1435	0.37 0.8 <0.005 - 0.8 0.15 0.13 I5943 ERGM17 7/08/2018 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.006 0.9 0.17 0.15 15943 ERGM17 23/10/2018 0.005 0.001 0.001 0.001 0.001 0.001 0.001 1814 20.7	0.31 0.7 0.017 0.8 0.12 0.12 0.12 15943 ERGM17 28/02/2019 0.003 <0.0001 <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 <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 <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 0.003 <0.001 0.003 <0.001 0.003 0.	0.26 0.8 <0.005 <0.005 0.15 0.19 J5943 ERGM17 23/05/2019 0.003 <0.0001 <0.001 <0.001 <0.001 0.003	1.3	0.46 0.8 <0.005 - 0.8 0.2 0.2 0.24 J5943 ERGM17 14/11/2019 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 0.16 0.10 0.002 0.0001 0.0001 0.0001 0.0001 0.0001	Concentration 0.011 <0.0001 0.003 <0.001 0.001 0.001 0.008 1814 23.9	0.26 0.7 0.7 0.005 0.7 0.005 0.7 0.089 0.12 Average Concentration 0.0041 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	0.53 1.3 0.046 0.008 1.13 0.2 0.2 0.24 Median Concentration 0.003 0.0001 0.001 0.001 0.001 753	0.41 0.88 0.01 0.006 0.9 0.15 0.16 Standard Deviation 0.0026 0 0 0.00039 0 0.0018	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) [Sieldah N Nicola (Tistlered) Nitzate (as N) (Filtered) Nitzate (as N) (Filtered) Nitzate (as N) (Filtered) Total Nitrogen (Filtered) Total Nitrogen (Filtered) Phosphatos (Piltered) Phosphatos (Piltered) Phosphatos (Piltered) Cadmium (Filtered) Cadmium (Filtered) Cadmium (Filtered) Load (Filtered) Load (Filtered) Load (Filtered) Total (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.005 0.005 0.005 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001	0.5 0.8 0.017 - 0.9 0.16 0.15 ERGM17 12/08/2015 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.018 - 0.9 0.13 0.15 I5943 ERGM17 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001	0.43 1.3 0.046 1.3 0.14 0.14 0.14 0.14 0.19 15943 ERGM17 511/02/2016 0.003 -0.001 -0.001 -0.001 -0.001 -0.001	0.29 0.7 0.01 - 0.7 0.14 0.15 15943 ERGM17 26/05/2016 0.003 <0.0001 <0.001 <0.001 <0.001	0.46 0.9 <0.005 - 0.9 0.16 0.14 I5943 ERGM17 17/08/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001	0.46 1 1 <0.005 - 1 0.17 0.16 I5943 ERGM17 17/11/2016 0.005 <0.0001 <0.0001 <0.0001 742	0.36 0.8 <0.005 - 0.8 0.14 0.12 JS943 ERGM17 27/02/2017 0.004 <0.001 <0.001 <0.001 <0.001 <0.001	0.8 -(0.005 0.8 0.13 0.16 0.16 15943 ERGM17 24/05/2017 0.003 -(0.0001 -(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) -(0.49 0.9 <0.005 - 0.9 0.17 0.17 0.17 15943 ERGM17 30/08/2017 0.011 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.53 0.9 <0.005 - 1 0.16 0.15 IS943 ERGM17 22/02/2018 0.01 <0.001 <0.001 <0.001 <0.001 0.008	0.37 0.9 0.012 0.15 0.15 0.15 0.15 0.15 0.01 0.01 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.37 0.8 <0.005 - 0.8 0.15 0.13 JS943 ERGM17 7/08/2018 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.006 - 0.9 0.17 0.15 IS943 ERGM17 23/10/2018 0.005 <0.0001 0.001 <0.001 <0.001 <1814	0.31 0.7 0.017 - 0.8 0.8 0.12 0.12 0.12 0.12 15943 ERGM17 28/02/2019 0.003 <0.001 0.003 <0.001 0.003	0.26 0.8 <0.005 -0.001 0.15 0.19 J5943 ERGM17 23/05/2019 0.003 <0.001 <0.001 <0.001 0.003 1165	1.3	0.46 0.8 <0.005 - 0.8 0.2 0.2 0.24 0.24 0.9 0.24 0.01 0.001 0.001 0.001 0.001 1231	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 0.10 0.001 0.002 0.0001 0.0001 0.0001	Concentration 0.011 <0.0001 0.003 <0.001 0.0001 0.0008	0.26 0.7 0.7 0.005 0.7 0.005 0.7 0.089 0.12 Average Concentration 0.0041 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	0.53 1.3 0.046 0.008 1.3 0.2 0.24 Median Concentration 0.003 0.0001 0.0001 0.0001 0.0001 0.0001	0.41 0.88 0.01 0.00 0.00 0.9 0.15 0.16 Standard Deviation 0.0026 0 0.00049 0 0.00049 0 0.0018	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Xiridah Niridare (as N) (Filtered) Niritage (Total (Filtered) Niritage (Total oxidated) (Filtered) Total Niritage (Total oxidated) (Filtered) Total Niritage (Filtered) Phosphate (as Piltered) Phosphate (as Piltered) Phosphate (as Piltered) Phosphate (Filtered) Assam (Filtered) Assam (Filtered) Leaf (Filtered) Leaf (Filtered) Tem (Filtered) Tem (Filtered) Tem (Filtered) Jet (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.01 0.005 0.005 0.005 0.005 0.005 0.005 0.005 Project ID Location PQL 0.001 0.001 0.001 0.001 0.001	0.5 0.8 0.017 - 0.91 0.92 0.9 0.16 0.15 IS943 ERGM17 12/08/2015 0.003 -(0.0001 -(0.0	0.4 0.9 0.018 - 0.9 0.13 0.15 J5943 ERGM17 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 15943 ERGM17 11/02/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.29 0.7 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17 26/05/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.46 0.9 <0.005 -0.9 0.16 0.14 J5943 ERGM17 17/08/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17 17/11/2016 0.005 <0.0001 <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	0.36 0.8 <0.005 <0.005 - 0.8 0.14 0.12 J5943 ERGM17 27/02/2017 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.8	0.49 0.9 0.005 - 0.9 0.17 0.17 0.17 J5943 ERGM17 30/08/2017 0.011 <0.0001 <0.001 <0.001 <0.001 <1.001 <0.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.	0.53 0.9 <0.005 - 1 0.16 0.15 IS943 ERGM17 22/02/2018 0.01 <0.0001 <0.0001 <0.0001 -0.0001 0.0008 1428 23	0.37 0.9 0.012 0.9 0.12 0.15 J5943 ERGM17 9/05/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 1435	0.37 0.8 <0.005 - 0.8 0.15 0.13 I5943 ERGM17 7/08/2018 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.006 0.9 0.17 0.15 15943 ERGM17 23/10/2018 0.005 0.001 0.001 0.001 0.001 0.001 0.001 1814 20.7	0.31 0.7 0.017 0.8 0.12 0.12 0.12 15943 ERGM17 28/02/2019 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.26 0.8 <0.005 <0.005 0.15 0.19 0.19 0.19 0.19 0.003 0.003 0.0001 <0.001 <0.001 <0.001 0.003 1165 21.4	1.3	0.46 0.8 <0.005 - 0.8 0.2 0.2 0.24 J5943 ERGM17 14/11/2019 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006	Concentration 0.011 <0.0001 0.003 <0.001 0.001 0.001 0.008 1814 23.9 7.87	0.26 0.7 0.7 0.005 0.7 0.005 0.7 0.089 0.12 Average Concentration 0.0041 0.0001	0.53 1.3 0.046 0.008 1.1 0.2 0.2 0.24 Median Concentration 0.003 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	0.41 0.88 0.01 0.006 0.9 0.15 0.16 Standard Deviation 0.0026 0 0 0.00039 0 0.0018	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) [Sieldah Nicolar (Siel Filtered) Nitzade (sa N) (Filtered) Nitzade (sa N) (Filtered) Nitzade (sa N) (Filtered) Total Nitzagen (Filtered) Total Nitzagen (Filtered) Phosphate (sa P) (Filtered) Phosphate (sa P) (Filtered) Cadmium (Filtered) Cadmium (Filtered) Cadmium (Filtered) Cadmium (Filtered) Liaci (Filtered) Nicola (Filtered) Filtered) Filtered Miccellancous Inong - water Electrical Conductivity Miscellancous Inong - water Electrical Conductivity	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1 0.005 0.005 0.005 0.005 0.005 0.05 Project ID Location Sampling Date PQL 0.001 0.0001 0.0001 0.0001	0.5 0.8 0.017	0.4 0.9 0.018 - 0.9 0.13 0.15 J5943 ERGM17 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 15943 ERGM17 11/02/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.29 0.7 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17 26/05/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.46 0.9 <0.005 -0.9 0.16 0.14 J5943 ERGM17 17/08/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17 17/11/2016 0.005 <0.0001 <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	0.36 0.8 <0.005 <0.005 - 0.8 0.14 0.12 J5943 ERGM17 27/02/2017 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.8	0.49 0.9 0.005 - 0.9 0.17 0.17 0.17 J5943 ERGM17 30/08/2017 0.011 <0.0001 <0.001 <0.001 <0.001 <1.001 <0.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.	0.53 0.9 <0.005 - 1 0.16 0.15 IS943 ERGM17 22/02/2018 0.01 <0.0001 <0.0001 <0.0001 -0.0001 0.0008 1428 23	0.37 0.9 0.012 0.9 0.12 0.15 J5943 ERGM17 9/05/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 1435	0.37 0.8 <0.005 - 0.8 0.15 0.13 I5943 ERGM17 7/08/2018 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.006 0.9 0.17 0.15 15943 ERGM17 23/10/2018 0.005 0.001 0.001 0.001 0.001 0.001 0.001 1814 20.7	0.31 0.7 0.017 0.8 0.12 0.12 0.12 15943 ERGM17 28/02/2019 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.26 0.8 <0.005 <0.005 0.15 0.19 0.19 0.19 0.19 0.003 0.003 0.0001 <0.001 <0.001 <0.001 0.003 1165 21.4	1.3	0.46 0.8 <0.005 - 0.8 0.2 0.2 0.24 J5943 ERGM17 14/11/2019 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 0.16 0.10 0.002 0.0001 0.0001 0.0001 0.0001 0.0001	Concentration 0.011 <0.0001 0.003 <0.001 0.001 0.001 0.008 1814 23.9	0.26 0.7 0.7 0.005 0.7 0.005 0.7 0.089 0.12 Average Concentration 0.0041 0.0001	0.53 1.3 0.046 0.008 1.13 0.2 0.2 0.24 Median Concentration 0.003 0.0001 0.001 0.001 0.001 753	0.41 0.88 0.01 0.006 0.9 0.15 0.16 Standard Deviation 0.0026 0 0 0.00039 0 0.0018	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Ammonia as N (Filtered) Nitrate (as N) (Filtered) Nitrates (as N) (Filtered) Nitrates (as N) (Filtered) Nitrates (as N) (Filtered) Total Nitrogen (Filtered) Total Nitrogen (Filtered) Phosphorus (Filtered) Phosphorus (Filtered) Assem: (Filtered) Common (Filtered) Common (Filtered) Lead (Filtered) Icea (Filtered) Total (Filtered) Total (Filtered) Total (Filtered) Total (Filtered) Miscellaneous trong - water Electrical Conductivity ppt (Lab)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.01 0.005 0.005 0.005 0.005 0.005 0.005 0.005 Project ID Location PQL 0.001 0.001 0.001 0.001 0.001	0.5 0.8 0.017 - 0.91 0.92 0.9 0.16 0.15 IS943 ERGM17 12/08/2015 0.003 -(0.0001 -(0.0	0.4 0.9 0.018 - 0.9 0.13 0.15 J5943 ERGM17 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 15943 ERGM17 11/02/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.29 0.7 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17 26/05/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.46 0.9 <0.005 -0.9 0.16 0.14 J5943 ERGM17 17/08/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17 17/11/2016 0.005 <0.0001 <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	0.36 0.8 <0.005 <0.005 - 0.8 0.14 0.12 J5943 ERGM17 27/02/2017 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.8	0.49 0.9 0.005 - 0.9 0.17 0.17 0.17 J5943 ERGM17 30/08/2017 0.011 <0.0001 <0.001 <0.001 <0.001 <1.001 <0.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.001 <1.	0.53 0.9 <0.005 - 1 0.16 0.15 IS943 ERGM17 22/02/2018 0.01 <0.0001 <0.0001 <0.0001 -0.0001 0.0008 1428 23	0.37 0.9 0.012 0.9 0.12 0.15 J5943 ERGM17 9/05/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 1435	0.37 0.8 <0.005 - 0.8 0.15 0.13 I5943 ERGM17 7/08/2018 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.006 0.9 0.17 0.15 15943 ERGM17 23/10/2018 0.005 0.001 0.001 0.001 0.001 0.001 0.001 1814 20.7	0.31 0.7 0.017 0.8 0.12 0.12 0.12 15943 ERGM17 28/02/2019 0.003 <0.0001 <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 <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 <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 0.003 <0.001 0.003 <0.001 0.003 0.	0.26 0.8 <0.005 <0.005 0.15 0.19 0.19 0.19 0.003 0.003 0.0001 <0.001 <0.001 <0.001 0.003 1165 21.4	1.3	0.46 0.8 <0.005 - 0.8 0.2 0.2 0.24 J5943 ERGM17 14/11/2019 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006	Concentration 0.011 <0.0001 0.003 <0.001 0.001 0.001 0.008 1814 23.9 7.87	0.26 0.7 0.7 0.005 0.7 0.005 0.7 0.089 0.12 Average Concentration 0.0041 0.0001	0.53 1.3 0.046 0.008 1.1 0.2 0.2 0.24 Median Concentration 0.003 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	0.41 0.88 0.01 0.006 0.9 0.15 0.16 Standard Deviation 0.0026 0 0 0.00039 0 0.0018	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Ammonia as N (Filtered) Nitrader (Fold N) (Filtered) Nitrader (Fold N) (Filtered) Nitrader (Fold N) (Filtered) Total Nitrogen (Filtered) Total Nitrogen (Filtered) Phosphate (as P) (Filtered) Phosphate (as P) (Filtered) Cadmin (Filtered) Cadmin (Filtered) Cadmin (Filtered) Lead (Filtered) Lead (Filtered) Nickel (Filtered) Filtered) Miccell (Filtered) Miccell (Filt	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.05 0.01 0.05 0.05 0.05 0.05 0.05 0.10 0.05 0.15 0.05 0.0	0.5 0.8 0.017 0.9 0.16 0.15 0.15 0.15 12/08/2015 0.003 0.003 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	0.4 0.9 0.018 - 0.9 0.13 0.15 Segment 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 1.5943 ERGM17 11/02/2016 0.003 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 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	0.29 0.7 0.01 - 0.7 0.14 0.15 0.15 26/05/2016 0.003 - 0.003 - 0.001 -	0.46 0.9 <	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17 17/11/2016 0.005 <0.0001 <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	0.36 0.8 40.005 - 0.8 0.14 0.12 J5943 ERGM17 27/02/2017 0.004 40.001 40.001 40.001 40.001 40.001 - 7.59	0.8 -(0.005 0.8 0.13 0.16 I5943 ERGM17 24/05/2017 0.003 -(0.001 -(0.	0.49 0.9 0.9 0.005 - 0.9 0.17 0.17 0.17 15943 30/08/2017 0.011 <0.001 <0.001 <0.001 <0.001 <0.001 - 715 715	0.53 0.9 <0.005 - 1 0.16 0.15 0.16 0.15 22/02/2018 0.01 <0.001 <0.001 <0.001 0.008 1428 23 7.54	0.37 0.9 0.012 0.9 0.12 0.15 0.15 15943 ERGM17 9/05/2018 0.002 <0.0001 0.0001 <0.0001 <0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001	0.37 0.8 40.005 -0.8 0.15 0.13 J5943 ERGM17 7/08/2018 0.004 40.001 40.001 40.001 40.001 40.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001	0.4 0.9 0.006 - 0.9 0.17 0.17 0.17 23/10/2018 0.005 - 0.0001 0.001 - 0.001 - 0.001 - 0.001 - 0.001	0.31 0.7 0.017 0.8 0.12 0.12 0.12 15943 ERGM17 28/02/2019 0.003 <0.0001 <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 <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 <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 0.003 <0.001 0.003 <0.001 0.003 0.	0.26 0.8 0.8 0.15 0.19 0.19 0.19 0.19 0.003 0.003 0.0001 0.0001 0.0001 0.003 1165 21.4 7.41	1.3 -0.008 1.3 -0.009 0.23 0.089 0.23 15943 ERGM17 222/08/2019 -0.003 -0.0001 -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	0.46 0.8 0.005 - 0.8 0.2 0.24 0.24 0.24 0.8 0.8 0.9 0.9 0.001 0.001 0.001 0.001 0.001 1231 7.73	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.06 0.7 0.8 0.16 0.16 0.16 0.16 0.10 0.00 0.00 0.00	Concentration 0.011 <0.0001 0.003 <0.0001 0.0008 1814 23.9 7.87 680 8	0.26 0.7 0.7 0.005 0.7 0.005 0.7 0.005 0.7 0.008 0.12 Average Concentration 0.0041 0.0001 0.0001 0.0011 0.0011 0.0011 7.6	0.53 1.3 0.046 0.0008 1.3 0.2 0.2 0.24 Median Concentration 0.003 0.0001	0.41 0.88 0.01 0.01 0.006 0.9 0.9 0.15 0.16 Standard Deviation 0.0026 0 0 0.0009 0 0.0009 1.8 0.0018	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Geddah Nizogen Total (Filtered) Nizated (as N) (Filtered) Nizated (as N) (Filtered) Nizated (as N) (Filtered) Nizated (as N) (Filtered) Total Nizagen (Filtered) Phosphate (as P) (Filtered) Phosphate (as P) (Filtered) ChemName Dissolved Metals in Water Arsmic (Filtered) Codemium (Filtered) Codemium (Filtered) Codemium (Filtered) Loud (Filtered) Loud (Filtered) Temp (Filtered) Temp (Filtered) Miscellaneous long: water Electrical Conductivity pH (Lab) Nutrients in Water Nizet as N (Filtered) Nutrients in Water	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.05 0.1 0.005 0.1 0.005 0.1 0.005 0.05 0.	0.5 0.8 0.017	0.4 0.9 0.018 - 0.9 0.13 0.15 J5943 ERGM17 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 J5943 ERGM17 11/02/2016 0.003 <0.0001 0.0001 0.0001 0.0001 - 0.001	0.29 0.7 0.7 0.01 - 0.7 0.14 0.15 J5943 ERGM17 26/05/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.46 0.9 <0.005 -0.9 0.16 0.14 J5943 ERGM17 17/08/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.46 1 <0.005 - 1 0.17 0.16 J5943 ERGM17 17/11/2016 0.005 <0.0001 <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	0.36 0.8 <0.005 <0.005 - 0.8 0.14 0.12 J5943 ERGM17 27/02/2017 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.8 - <0.005 0.8 0.13 0.16 15943 0.001 24/05/2017 0.003 <0.0001 <0.001 <0.001 <0.001	0.49 0.9 0.9 0.005 - 0.9 0.17 0.17 0.17 30/08/2017 0.011 <0.0001 <0.001 <0.001 <0.001 715 21.6 7.17 - 0.037	0.53 0.9 <0.005 - 1 0.16 0.15 IS943 ERGM17 22/02/2018 0.01 <0.0001 <0.0001 <0.0001 -0.0001 0.0008 1428 23	0.37 0.9 0.012 0.9 0.12 0.15 J5943 ERGM17 9/05/2018 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 1435	0.37 0.8 <0.005 - 0.8 0.15 0.13 I5943 ERGM17 7/08/2018 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.006 0.9 0.17 0.15 15943 ERGM17 23/10/2018 0.005 0.001 0.001 <0.001 <0.001 1814 20.7 7.52	0.31 0.7 0.017 0.8 0.12 0.12 0.12 15943 ERGM17 28/02/2019 0.003 <0.0001 <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 <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 <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 0.003 <0.001 0.003 <0.001 0.003 0.	0.26 0.8 <0.005 <0.005 0.15 0.19 0.19 0.19 0.003 0.003 0.0001 <0.001 <0.001 <0.001 0.003 1165 21.4	1.3 -0.008 1.3 0.089 0.23 0.089 0.23 15943 ERGM17 22/08/2019 0.003 <0.0001 <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	0.46 0.8 <0.005 - 0.8 0.2 0.2 0.24 J5943 ERGM17 14/11/2019 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006 0.006 0.16 0.16 0.16 0.16 0.10 0.002 0.0001	Concentration 0.011 <0.0001 <0.0003 <0.001 0.003 <0.001 0.001 0.008 1814 23.9 7.87 680 8	0.26 0.7 (0.005) (0.00	0.53 1.3 0.046 0.008 1.1 0.2 0.2 0.24 Median Concentration 0.003 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	0.41 0.88 0.01 0.01 0.006 0.99 0.9 0.9 0.15 0.16 0.16 0.0026 0.0026 0.00049 0.00018 370 1.8 0.17	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Gledahn Nicola (Filtered) Nitracen (Todal (Filtered) Nitracen (Todal (Filtered) Nitracen (Todal Condised) (Filtered) Todal Nitrogen (Filtered) Todal Nitrogen (Filtered) Phosphate (as P) (Filtered) Phosphate (as P) (Filtered) Cadmium (Filtered) Cadmium (Filtered) Cadmium (Filtered) Lead (Filtered) Lead (Filtered) Nickel (Filtered) Filtered) Miccellaneous Inorg : water Getting (Filtered) Miccellaneous Inorg : water Getting (Gillered) Filtered) Miccellaneous Inorg : water Getting (Gillered) Filtered) Miccellaneous Inorg : water Getting (Gillered) Filtered) Miccellaneous Inorg : water Getting (Goldwich) Michal Michael Michael Michael	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.05 0.01 0.05 0.05 0.05 0.05 0.05 0.10 0.05 0.10 0.05 0.05	0.5 0.8 0.017 0.9 0.16 0.15 0.15 15943 ERGM17 12/08/2015 0.003	0.4 0.9 0.018 0.9 0.13 0.15 J5943 ERGM17 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 18.7 7.87 0.034	0.43 1.3 0.046 - 1.3 0.14 0.14 0.14 1.5943 ERGM17 11/02/2016 0.003 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 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	0.29 0.7 0.01 - 0.7 0.14 0.15 I5943 ERGM17 26/05/2016 0.003 <0.0001 <0.0001 <0.001 <0.001 - 730 21.6 7.73 0.08	0.46 0.9 0.9 <0.005 0.9 0.16 0.14 15943 ERGM17 17/08/2016 0.003 <0.0001 <0.001 <0.001 <0.001	0.46 1 <0.005 - 1 0.17 0.16 15943 ERGM17 17/11/2016 0.005 <0.001 <0.001 -0.001 -0.001 -742 -11,7.48	0.36 0.8 0.10 0.8 0.14 0.12 J5943 ERGM17 27/02/2017 0.004 <0.0001 <0.001 <0.001 <0.001 0.082	0.8 -(0.005 0.8 0.13 0.16 I5943 ERGM17 24/05/2017 0.003 -(0.001 -(0.	0.49 0.9 0.9 0.005 - 0.9 0.17 0.17 0.17 15943 30/08/2017 0.011 <0.001 <0.001 <0.001 <0.001 <0.001 - 715 715	0.53 0.9 -(0.005) -(1) 0.16 0.15 1 0.16 0.15 1 5943 ERGM17 22/02/2018 0.01 -(0.001) -(0.001) -(0.001) -(0.001) -(0.008) 1428 23 7.54 -(0.01) -(0.001) -(0.37 0.9 0.012	0.37 0.8 0.005 0.8 0.15 0.13 J5943 ERGM17 7/08/2018 0.004 <0.001 <0.001 <0.001 <0.001 <0.001	0.4 0.9 0.006 - 0.9 0.17 0.17 0.17 23/10/2018 0.005 - 0.0001 0.001 - 0.001 - 0.001 - 0.001 - 0.001	0.31 0.7 0.017 0.8 0.12 0.12 0.12 0.12 15943 ERGM17 28/02/2019 0.003 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 0.0001	0.26 0.8 <0.005 0.8 0.15 0.19 0.19 15943 ERGM17 23/05/2019 0.003 <0.0001 <0.001 <0.001 <0.001 <7.41 7.41 0.003 0.003 0.003	1.3 -0.008 1.3 -0.009 0.23 0.089 0.23 15943 ERGM17 222/08/2019 -0.003 -0.0001 -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	0.46 0.8 0.005	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006 0.00 0.8 0.16 0.16 0.16 0.16 0.17 0.0001	Concentration 0.011 <0.0001 0.003 <0.0001 0.0008 1814 23.9 7.87 680 8	0.26 0.7 (0.005) (0.00	0.53 1.3 0.046 0.008 1.3 0.2 0.24 0.24 0.003 0.003 0.0001 0.001	0.41 0.88 0.01 0.01 0.006 0.9 0.9 0.15 0.16 Standard Deviation 0.0026 0 0 0.0009 0 0.0009 1.8 0.0018	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Gleddah Nixola (as N) (Filtered) Nixola (as N) (Filtered) Nixola (as N) (Filtered) Nixola (as N) (Filtered) Total Nixola (Gillered) Total Nixola (Filtered) Total Nixola (Filtered) Phosphate (as Piltered) Disolved Metals in Water Arsinic (Filtered) Cadmium (Filtered) Cadmium (Filtered) Cadmium (Filtered) Lead (Filtered) Nixola (Filtered) Zinc (Filtered) Zinc (Filtered) Get (Filtered) Get (Gillered) Get (Gillered) Mixola (mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.05 0.05 0.05 0.05 0.005 0.005 0.05 0.	0.5 0.8 0.017	0.4 0.9 0.018 - 0.9 0.13 0.15 0.15 15943 ERGM17 19/11/2015 - 0.002 <0.0001 <0.001 <0.001 <0.001 - 0.0	0.43 1.3 0.046 1.3 0.14 1.3 0.14 1.5943 1.6001 1.0001 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	0.29 0.7 0.01 - 0.7 0.14 0.15 0.19 15943 ERGM17 26/05/2016 - 0.003 <0.0001 <0.001 <0.001 <0.001 - 730 21.6 7.73 - 0.08 0.08	0.46 0.9 <	0.46 1 1 <0.005 - 1 0.17 0.16 15943 ERGM17 17/11/2016 0.005 <0.0001 <0.0001 <0.0001 -0.0001 -0.001 7.42 21.1 7.48	0.36 0.8 0.05 0.8 0.14 0.12 15943 ERGM17 27/02/2017 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 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001	0.8(0.005 0.8 0.13 0.16 0.13 0.16 15943 15943 -(0.001 -(0.	0.49 0.9 0.9 0.17 0.17 0.17 0.17 0.17 0.17 0.09 0.09 0.001	0.53 0.9 <0.005 - 1 0.16 0.15 0.19 15943 ERGM17 22/02/2018 0.01 <0.001 <0.001 <0.001 0.008 1428 7.54 - 0.021 <0.005	0.37 0.9 0.012 0.9 0.12 0.15 0.15 15943 ERGM17 9/05/2018 0.002 <0.0001 0.001 0.001 1435 22.1 7.6	0.37 O.8 O.8 O.8 O.05 O.8 O.15 O.13 J5943 ERGM17 7/08/2018 0.004 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 O.001 O	0.4 0.9 0.006 - 0.9 0.17 0.15 15943 ERGM17 23/10/2018 0.005 <0.0001 0.001 <0.001 <0.001 - 1814 20.7 7.52 0.051 0.001 0.001	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12 0.12 15943 ERGM17 28/02/2019 0.003 <0.001 0.003 0.003 0.003 0.003 - 0.001 0.003 - 0.001 0.003 - 0.003 - 0.	0.26 0.8 0.8 0.15 0.19 0.19 15943 ERGM17 23/05/2019 0.003 <0.001 <0.001 <0.001 0.003 1165 21.4 7.41 0.034 <0.005	1.3 -0.008 1.3 0.089 0.23 0.089 0.23 15943 ERGM17 22/08/2019 0.003 <0.0001 <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	0.46 0.8 <0.005	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006 0.006 0.16 0.16 0.16 0.16 0.10 0.002 0.0001	Concentration 0.011 <0.0001 0.003 <0.0001 0.001 0.001 0.001 0.008 1814 23.9 7.87 680 8 0.14 0.026	0.26 0.7 (0.005) (0.00	0.53 1.3 0.046 0.0008 1.3 0.2 0.24 0.24 Median Concentration 0.003 0.0001 0.001 0.001 0.001 0.001 753 21.4 7.58 680 8	0.41 0.88 0.01 0.01 0.006 0.9 0.9 0.15 0.16 Standard Deviation 0.0026 0 0 0.00049 0 0.0018 370 1.8 0.17	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Kiristed (as N) (Filtered) Nitrated (as N) (Filtered) Nitrated (as N) (Filtered) Nitrated (as N) (Filtered) Nitrated (as N) (Filtered) Total Nitragen (Filtered) Total Nitragen (Filtered) Phosphate (as P) (Filtered) Phosphate (as P) (Filtered) Cadmium (Filtered) Cadmium (Filtered) Cadmium (Filtered) Cadmium (Filtered) Cadmium (Filtered) Total (Filtered) Filtered) Filtered Filtered Miscellaneous long - water Electrical Conductivity pH (Lab) Nutrients in Water Ammonia as N (Filtered) Ammonia as N (Filtered) Ammonia as N (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.05 0.01 0.005 0.10 0.005 0.10 0.005 0.05 0.	0.5 0.8 0.017 0.9 0.16 0.15 0.15 15943 ERGM17 12/08/2015 0.003 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.4 0.9 0.018 0.9 0.13 0.15 0.15 15943 ERGM17 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 18.7 7.87 0.034 0.007 1.3	0.03 1.3 0.046 1.3 0.14 0.14 0.14 J5943 ERGM17 511/02/2016 0.003 0.001	0.29 0.7 0.01	0.46 0.9 0.9 <0.005 - 0.9 0.16 0.14 15943 ERGM17 17/08/2016 0.001 <0.001 <0.001 <0.001 - 580 20.7 7.71 0.056 0.008 0.3	0.46 1 <0.005 - 1 0.17 0.16 15943 ERGM17 17/11/2016 0.005 <0.001 <0.001 -0.001 -0.001 -742 -11,7.48	0.36 0.8 <0.005 . 0.8 0.14 0.14 0.12 15943 EBGM17 27/02/2017 0.001 <0.001 <0.001 <0.001 . 0.00	0.8 - <0.005 0.8 0.13 0.16 15943 0.16 15943 0.003 <0.0001 <0.0001 <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 <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	0.49 0.9 0.9 0.005 - 0.9 0.17 0.17 0.17 0.17 30/08/2017 0.011 <0.001 <0.001 <0.001 <1.001 715 21.6 7.17 - 0.037 0.011 0.6	0.53 0.9 <0.005 - 1 0.16 0.15 0.15 9.001 <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 <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 <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 <0.001 <0.001 0.00	0.37 0.9 0.012	0.37 0.8 <0.005 - 0.8 <0.005 - 0.8 0.15 0.13 15943 ERGM17 7/08/2018 0.004 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.4 0.9 0.90 0.006 0.9 0.17 0.15 0.15 0.18 0.005 0.001 0.001 0.001 0.001 0.001 1814 20.7 7.52 0.0051 0.0051 0.001 1.3	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12 0.12 15943 ERGM17 28/02/2019 0.003 <0.001 0.003 0.003 0.003 0.003 - 0.001 0.003 - 0.001 0.003 - 0.003 - 0.	0.26 0.8 <0.005 0.8 0.15 0.15 0.15 0.19 35943 ERGM17 23/05/2019 0.001 <0.001 <0.001 <0.001 <7.41 7.41 0.034 <0.005 <0.014	1.3 -0.008 1.3 0.089 0.23 0.089 0.23 15943 ERGM17 22/08/2019 0.003 -0.0001 -0.001	0.46 0.8 <0.005 - 0.8 0.2 0.24 0.24 0.943 ERGM17 14/11/2019 0.002 <0.0001 <0.001 <0.001 - 2.11 7.73	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 0.16 0.10 0.002 0.002 0.0001 0.0001 0.0001 0.001	Concentration 0.011 <0.0001 <0.0001 <0.0001 <0.001 <0.001 <0.008 1814 23.9 7.87 680 8 0.14 0.026 3.4	0.26 0.7 (0.005) (0.700) 0.7 (0.005) 0.7 0.008 0.12 Average (0.006) 0.001 0.0001	0.53 1.3 0.046 0.008 1.3 0.2 0.24 0.24 0.003 0.003 0.0001 0.001	0.41 0.88 0.01 0.01 0.006 0.9 0.9 0.15 0.16 Standard Deviation 0.0026 0.0009 0.00018 0.0018 0.017	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Giedahn Nicitae (as N) (Filtered) Nitrates (as N) (Filtered) Nitrates (Total Oxidated) (Filtered) Total Nitrogen (Filtered) Total Nitrogen (Filtered) Phosphorus (Filtered) Phosphorus (Filtered) Casemin (Filtered) Casemin (Filtered) Casemin (Filtered) Casemin (Filtered) Casemin (Filtered) Casemin (Filtered) Lead (Filtered) Time (Filtered) Time (Filtered) Time (Filtered) Time (Filtered) Time (Filtered) Mickel (Filtered) Time (Filtered) Mickel (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.005 0.1005 0.005 0.11 0.005 0.005 0.05 0.	0.5 0.8 0.017 0.9 0.16 0.15 0.15 15943 ERGM17 12/08/2015 0.003 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.4 0.9 0.018 0.9 0.13 0.15 0.15 15943 ERGM17 19/11/2015 0.002 <0.0001 <0.001 <0.001 <0.001 18.7 7.87 0.034 0.007 1.3	0.03 1.3 0.046 1.3 0.14 0.14 0.14 J5943 ERGM17 511/02/2016 0.003 0.001	0.29 0.7 0.01	0.46 0.9 0.9 <0.005 - 0.9 0.16 0.14 15943 ERGM17 17/08/2016 0.001 <0.001 <0.001 <0.001 - 580 20.7 7.71 0.056 0.008 0.3	0.46 1 <-0.005 1 -0.17 0.16 J5943 ERGM17 17/11/2016 0.005 -0.0001 -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	0.36 0.8 <0.005 . 0.8 0.14 0.14 0.12 15943 EBGM17 27/02/2017 0.001 <0.001 <0.001 <0.001 . 7.59	0.8 - <0.005 0.8 0.13 0.16 15943 0.16 15943 0.003 <0.0001 <0.0001 <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 <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	0.49 0.9 0.9 0.005 - 0.9 0.17 0.17 0.17 0.17 30/08/2017 0.011 <0.001 <0.001 <0.001 <1.001 715 21.6 7.17 - 0.037 0.011 0.6	0.53 0.9 <0.005 - 1 0.16 0.15 0.15 9.001 <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 <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 <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 <0.001 <0.001 0.00	0.37 0.9 0.012	0.37 0.8 <0.005 - 0.8 <0.005 - 0.8 0.15 0.13 15943 ERGM17 7/08/2018 0.004 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.4 0.9 0.90 0.006 0.9 0.17 0.15 0.15 0.18 0.005 0.001 0.001 0.001 0.001 0.001 1814 20.7 7.52 0.0051 0.0051 0.001 1.3	0.31 0.7 0.017 0.8 0.12 0.12 0.12 0.12 0.12 0.12 0.03 0.003	0.26 0.8 <0.005 0.8 0.15 0.15 0.15 0.19 35943 ERGM17 23/05/2019 0.001 <0.001 <0.001 <0.001 <7.41 7.41 0.034 <0.005 <0.014	0.008 1.3 0.089 1.3 0.089 0.23 15943 15943 15943 22/08/2019 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 -0.001	0.46 0.8 <0.005 0.2 0.24 0.94 0.94 0.94 0.94 0.94 0.94 0.94 0.9	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 0.16 0.16 0.10 0.002 0.002 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	Concentration 0.011	0.26 0.7 40.005 0.7 40.005 0.7 0.005 0.7 0.0089 0.12 Average Concentration 0.0001 0.0001 0.0001 0.0010 0.001 0.0016 0.001	0.53 1.3 0.046 0.008 1.3 0.2 0.24 Median Concentration 0.003 0.0001	0.41 0.88 0.01 0.006 0.90 0.95 0.15 0.16 Standard Deviation 0.0026 0 0 0.00026 0 0 0.00038 0 0 0.00048 0 0.0018 0 0.0018 0 0 0.0018 0 0 0.0056 0 0.0056 0 0 0.0056	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as N (Filtered) Gleddah (Not (Siltered)) Nitzagen (Total (Siltered)) Nitzagen (Total (Siltered)) Nitzagen (Total Oxidised) (Filtered) Total Nitzagen (Total Oxidised) Filtered) Total Nitzagen (Filtered) Phosphate (Siltered) ChemName Dissolved Metals in Water Arsen (Filtered) Cadmium (Filtered) Cadmium (Filtered) Lead (Filtered) Lead (Filtered) Ten (Filtered) Ten (Filtered) Ten (Filtered) Ten (Filtered) Miscellaneous Inore water Electrical Conductivity politically politically Ammonia as N (Filtered) Nitzagen (Total Oxidised)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.05 0.05 0.10 0.005 0.10 0.005 0.10 0.005 0.10 0.005 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001 1 1	0.5 0.8 0.017 - 0.9 0.16 0.15 Segment 12/08/2015 0.003 - 0.0001	0.4 0.9 0.9 0.018 0.9 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13	0.43 1.3 0.046	0.29 0.7 0.01 - 0.7 0.14 0.15 S943 ERGM17 26/05/2016 O.003 (0.0001 (0.	0.46 0.9 0.9 0.16 0.16 0.14 Sold ERGM17 17/08/2016 O.003 O.001 O.0	0.46 1 1 <0.005 - 1 0.17 0.16 IS943 IRRGM17 17/11/2016 0.005 <0.0001 <0.001 <0.001 -0.001	0.36 0.8 <0.005 - 0.8 0.14 0.12 J5943 - 0.001	0.8 . <0.005 0.8 0.13 0.16 J0.16 J0.	0.49	0.53 0.9 4.0.005 - 1 0.16 0.15 1.5943 0.01 4.0.005 4.0.005 4.0.005 4.0.005 4.0.005	0.37 0.9 0.012 - 0.9 0.15 - 0.15 - 0.15 - 0.16 - 0.17 9/05/2018 - 0.001	0.37 0.8 0.8 0.05 - 0.8 0.15 0.13 IS943 0.05 0.13 IS943 0.001	0.4 0.9 0.906 0.9 0.17 0.15 JS943 23/10/2018 0.005 0.001 0.001 0.001 0.001 0.001 0.001 1.31 0.051 0.011 1.3 6.4 7.7 0.044	0.31 0.7 0.017 - 0.8 0.12 0.12 0.12 0.12 0.12 0.012 0.003 - 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.001 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003	0.26 0.8 <0.005 - 0.8 0.15 0.19 0.19 0.19 0.003 - 0.0001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.003	1.3 -0.008 1.3 -0.008 0.23 0.23 0.23 0.23 0.23 0.009 0.23 0.0000 0.0001 1364 0.0001 0.001 0.0001 0.0001 0.0001 1364 0.0001 1364 0.0001 1364 0.001 1364 0.001 1364 0.001 1364 0.001 1364 0.001 1364 0.001 0.005 0.005 130000000000000000000000000000000000	0.46 0.8 0.8 0.005 0.2 0.2 0.24 0.005 14/11/2019 14/11/2019 0.002 0.0001 0.0001 1231 21.1 1.1	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 0.16 0.16 0.001	Concentration 0.011 <0.0001 <0.0001 <0.0001 0.0003 <0.001 0.0008 1814 23.9 7.87 680 8 0.14 0.026 3.4 155 18 18 0.059 0.059	0.26 0.7 40.005 0.7 40.005 0.7 0.005 0.7 0.7 0.0089 0.12 Average Concentration 0.0041 0.0001 0.0001 0.0001 0.0001 1.7 2.6 0.045 0.0056 0.045 0.0056 0.045 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056	0.53 1.3 0.046 0.008 1.3 0.2 0.24 0.24 Median Concentration 0.0001 0.001 0.001 0.001 0.001 753 758 68 8 0.037 0.008 0.06 5.7	0.41 0.88 0.01 0.006 0.99 0.15 0.16 Standard Deviation 0.0026 0 0.00049 0.00049 0.0018 1.8 0.17 0.016 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024
Ammonia as Na (Filtered) Nitrate (as N) (Filtered) Total Nitrate (as N) Phosphate (as Piltered) Phosphate (as Piltered) Phosphate (as Piltered) Phosphate (as Piltered) Assen (Filtered) Cadmium (Filtered) Cadmium (Filtered) Lead (Filtered) Lead (Filtered) Nickel (Filtered) Zin (Filtered) Zin (Filtered) Temp (Filtered) Micolaneous into a water Microlaneous into a water Microlaneous into a water Microlaneous into a water Microlaneous into a water Nitrate (as N) (Filtered)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.05 0.1 0.005 0.1 0.005 0.1 0.005 0.1 0.005 0.05 0.	0.5 0.8 0.017	0.4 0.9 0.018	0.43 1.3 0.046 1.3 0.14 0.14 0.14 0.14 0.17 0.19 0.001	0.29 0.7 0.01 0.7 0.14 0.15 15943 ERGM17 26/05/2016 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 -730 21.6 7.73 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	0.46 0.9 <	0.46 1 40.005 1 0.17 0.16 15943 ERGM17 17/11/2016 0.005 <0.0001 <0.001 <0.001 0.001 742 2.11 7.48	0.36 0.8 <0.005 0.8 0.12 0.12 0.12 0.12 0.12 0.12 0.004 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001	0.8	0.49 -0.005 -0.9 -0.17 -0.17 -0.011 -0.001	0.53 0.9 <0.005 1 0.16 0.15 15943 ERGM17 222/02/2018 0.01 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0008 1428 23 7.54	0.37 0.9 0.012	0.37 0.8 <0.005	0.4 0.9 0.006 0.9 0.15 0.15 0.15 0.15 0.15 0.001	0.31 0.7 0.017 0.8 0.12 0.12 0.12 0.12 0.12 0.12 0.001 0.003 0.003 0.001 0.003 0.001 0.003 0.001 0.003 0.001 0.003 0.001 0.003	0.26 0.8 <0.005 0.8 0.19 0.19 0.19 0.19 0.19 0.003 0.003 0.0001	1.3 0.008 1.3 - 0.089 0.23 1.5943 ERRGM17 22/08/2019 0.003 0.001 0.001	0.46 0.8 <0.005 0.2 0.24 0.94 0.94 0.94 0.94 0.94 0.94 0.94 0.9	0.5 0.8 <0.005 <0.005 0.8 0.14 0.14 Statistical St Number of Results 17 17 17 17 17 17 17 17	0.39 0.8 0.006 - 0.8 0.16 0.16 0.16 0.16 0.16 0.10 0.002 0.002 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	Concentration 0.011	0.26 0.7 40.005 0.7 40.005 0.7 0.005 0.7 0.0089 0.12 Average Concentration 0.0001 0.0001 0.0001 0.0010 0.001 0.0016 0.001	0.53 1.3 0.046 0.008 1.3 0.2 0.24 Median Concentration 0.003 0.0001	0.41 0.88 0.01 0.006 0.90 0.95 0.15 0.16 Standard Deviation 0.0026 0 0 0.00026 0 0 0.00038 0 0 0.00048 0 0.0018 0 0.0018 0 0 0.0018 0 0 0.0056 0 0.0056 0 0 0.0056	0.4 0.8 0.005 0.005 0.9 0.15	0.16 0.01 0.0017 0.16 0.024



		Project ID	J5943	J5943	J5943	J5943	J5943	J5943	J5943	J5943]													
		Location	MR1	MR1	MR1	MR1	MR1	MR1	MR1	MR1														
		Sampling Date	20/05/2015	12/08/2015	19/11/2015	11/02/2016	26/05/2016	17/08/2016	17/11/2016	27/02/2017	22/02/2018	9/05/2018	7/08/2018	23/10/2018	28/02/2019	23/05/2019	22/08/2019	14/11/2019	Statistical S	ummary				
nemName	Unit	PQL																	Number of Results		Maximum Concentration	Average Concentration	Median Concentrati	Standard io Deviation
ssolved Metals in Water																					•		•	
Arsenic (Filtered)	mg/L	0.001	0.013	0.008	0.009	0.011	0.019	0.014	0.005	0.006	0.055	0.02	0.003	0.003	0.005	0.011	0.003	0.001	16	0.001	0.055	0.012	0.0085	0.013
Cadmium (Filtered)	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	16	<0.0001	< 0.0001	0.0001	0.0001	0
Copper (Filtered)	mg/L	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	16	<0.001	< 0.001	0.001	0.001	0
Lead (Filtered)	mg/L	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	16	<0.001	< 0.001	0.001	0.001	0
Nickel (Filtered)	mg/L	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	16	< 0.001	< 0.001	0.001	0.001	0
Zinc (Filtered)	mg/L	0.001	< 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	0.008	0.007	< 0.001	16	<0.001	0.008	0.0019	0.001	0.0022
ld																								
EC (field)	μS/cm		580	663	504	542	640	540	613	700	-		-	-	-	-		-	8	504	700	598	596.5	68
Temp (Field)	oC		22.1	17	19.6	24.4	21.9	19	23.4	22.8	-	-	-	-	-	-	-	-	8	17	24.4	21	22	2.5
pH (Field)	pH Units		7.61	-	7.7	7.36	7.44	7.41	7.14	7.02	-	-	-	-	-	-	-	-	7	7.02	7.7	7.4	7.41	0.24
scellaneous Inorg - water																								
Electrical Conductivity	μS/cm	1		550	-	-				-	-		-	-	-	-		-	1	550	550		550	
pH (Lab)	pH Units			7.9	-	-		-	-	-	-	-	-	-	-	-	-	-	1	7.9	7.9		7.9	
trients in Water																								
Nitrite as N (Filtered)	mg/L	0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005		< 0.005	<0.005	< 0.005	< 0.005	< 0.005	-	< 0.005	<0.005	<0.005	14	<0.005	0.005	0.005	0.005	0
Ammonia as N (Filtered)	mg/L	0.005	0.12	0.09	0.009	0.016	0.056	0.071	0.038	0.25	< 0.005	0.062	0.019	0.062	0.058	0.063	0.041	0.057	16	<0.005	0.25	0.064	0.0575	0.058
Kjeldahl Nitrogen Total (Filtered)	mg/L	0.1	0.4	0.3	<0.1	0.2	0.5	0.2	0.2	0.7	0.3	0.3	0.3	0.3	0.5	0.3	0.4	0.3	16	<0.1	0.7	0.33	0.3	0.14
Nitrate (as N) (Filtered)	mg/L	0.005	0.065	0.19	0.21	0.066	0.005	0.028	-	0.052	<0.005	0.006	0.027	0.034	-	< 0.005	0.009	0.019	14	<0.005	0.21	0.052	0.0275	0.067
Nitrogen (Total Oxidised) (Filtered)	mg/L	0.005		-	-	-		-	0.056	-	-		-	-	0.03	-	0.009	-	3	0.009	0.056	0.032	0.03	0.024
Total Nitrogen (Filtered)	mg/L	0.1	0.4	0.5	0.2	0.2	0.5	0.3	0.3	0.8	0.3	0.3	0.3	0.4	0.5	0.3	0.4	0.3	16	0.2	0.8	0.38	0.3	0.15
Phosphate (as P) (Filtered)	mg/L	0.005	0.007	0.01	0.009	0.015	0.015	0.02	0.024	0.022	< 0.005	0.024	0.019	0.029	0.034	0.015	<0.005	0.054	16	<0.005	0.054	0.019	0.017	0.013
Phosphorus (Filtered)	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.07	0.05	16	< 0.05	0.07	0.051	0.05	0.005

		Project ID	J5943	J5943	J5943	J5943	J5943	J5943	J5943	J5943	J5943						
		Location	MR1r	MR1r	MR1r	MR1r	MR1r	MR1r	MR1r	MR1r	MR1r						
		Sampling Date	30/08/2017	22/02/2018	9/05/2018	7/08/2018	23/10/2018	28/02/2019	23/05/2019	22/08/2019	14/11/2019	Statistical Su	ımmary				
ChemName	Unit	PQL										Number of	Minimum	Maximum	Average	Median	Standard
												Results	Concentration	Concentration	Concentration	Concentration	Deviation
Dissolved Metals in Water																	
Arsenic (Filtered)	mg/L	0.001	0.005	-		-	-	-	-		-	1	0.005	0.005		0.005	T
Cadmium (Filtered)	mg/L	0.0001	< 0.0001	-		-	-	-	-	-	-	1	< 0.0001	< 0.0001		0.0001	T
Copper (Filtered)	mg/L	0.001	< 0.001	-		-	-	-	-		-	1	<0.001	<0.001		0.001	T
Lead (Filtered)	mg/L	0.001	< 0.001	-		-	-	-	-	-	-	1	< 0.001	< 0.001		0.001	T
Nickel (Filtered)	mg/L	0.001	< 0.001	-		-	-	-	-		-	1	<0.001	<0.001		0.001	T
Zinc (Filtered)	mg/L	0.001	< 0.001	-		-	-	-	-	-	-	1	< 0.001	< 0.001		0.001	T
Field																	
EC (field)	μS/cm		543	701	1196	545	899	1266	1074	1203	1221	9	543	1266	961	1074	297
Temp (Field)	oC		19.9	22.3	22	19.6	19.5	21.8	21.5	19.9	20.1	9	19.5	22.3	21	20.1	1.1
pH (Field)	pH Units		7.44	7.15	7.5	7	7.12	7.27	7.18	7.25	7.02	9	7	7.5	7.2	7.18	0.17
Nutrients in Water																	
Nitrite as N (Filtered)	mg/L	0.005	0.037	-		-	-	-	-	-	-	1	0.037	0.037		0.037	T
Ammonia as N (Filtered)	mg/L	0.005	0.026	-	-	-	-	-	-	-	-	1	0.026	0.026		0.026	T
Kjeldahl Nitrogen Total (Filtered)	mg/L	0.1	0.2	-		-	-	-	-		-	1	0.2	0.2		0.2	T
Nitrate (as N) (Filtered)	mg/L	0.005	0.64	-	-	-	-	-	-	-	-	1	0.64	0.64		0.64	T
Total Nitrogen (Filtered)	mg/L	0.1	0.9	-		-	-	-	-		-	1	0.9	0.9		0.9	T
Phosphate (as P) (Filtered)	mg/L	0.005	0.013	-	-	-	-	-	-	-	-	1	0.013	0.013		0.013	

Suite 1, 27 York St, Subiaco WA 6008 PO Box 117, Subiaco WA 6904 Ph: +61 8 9388 2436

www.jdahydro.com.au

info@jdahydro.com.au

