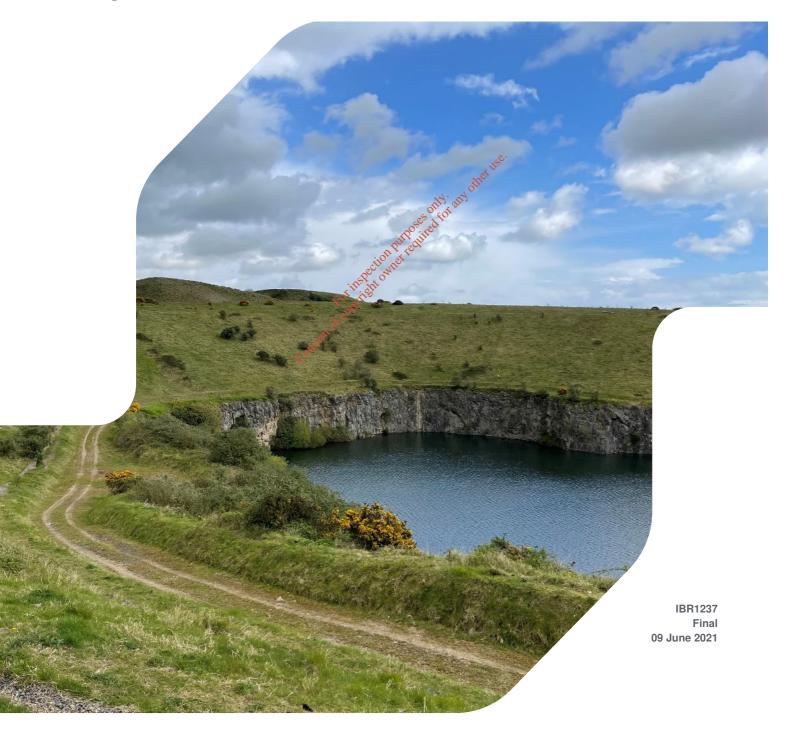


DROGHEDA LANDFILL SITE

Drogheda Licence Review Article 12



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9 June 2021

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1 ARTICLE 12 COMPLIANCE REQUIREMENTS

1.1 Describe the nature of the facility or premises concerned, including the proposed capacity of the facility or premises

Drogheda Landfill Site opened in 1983 and ceased accepting waste for disposal at the landfill since the waste licence was granted on 30th December 1999 as required by the Waste Management (Licensing) Regulations, 1997. Only inert waste for restoration and capping of the landfill have been brought on site following this date. Restoration and capping works have been undertaken in a number of Phases, with Phase 1 capping works being completed in September 2007. Approximately 15,000 m² of capping (Phase 2) in the former CRH lands to the north of the site was completed in December 2016.

Phase 3 capping works will be undertaken on a further area to the north of the site which has been acquired by Louth County Council. The capping of this area will deal with the remaining area of waste deposited outside the boundary to the northern part of the site and has an area encompassing approximately 14000 m². Louth County Council are applying to change the boundary of the landfill to take in an additional 1.22 hectares of land where waste was historically landfilled by Drogheda Borough Council. This land has been purchased by Louth County Council from a third party and specified engineering works have been submitted to the EPA for approval to cap this area and provide appropriate monitoring infrastructure including gas and groundwater. These works cannot be undertaken until a review of the licence in relation to the boundary change has be completed. As the landfill site is closed there is no remaining landfill capacity at the site.

A Civic Waste Facility is operated at the site. As per Condition 5.9 (c) of the current waste licence the quantity of waste to be accepted at the Civic Waste Facility shall not exceed 10,000 tonnes per annum unless otherwise agreed with the Agency. Site Location and Layout are shown on Drawings IBR01237/100 and IBR01237/101 in Appendix A. The National Grid Reference for the facility is 30,7013E 276405N.

The site is located within Louth County Council planning authority and the activity constitutes development but is exempted development. An Environmental Impact Assessment (EIS) has not been prepared in support of this application. An Appropriate Assessment Screening has been prepared and was included in the application.

1.2 Specify the class or classes of activity concerned, in accordance with the Third and Fourth Schedules of the Act

The licensed disposal activities, in accordance with the Third Schedule and Fourth Schedule of the Waste Management Act, 1996, are restricted to those listed as per Schedule A: Waste Activities in the current licence (Table 1.1).

Table 1.1: Classes Of Activity Concerned

	ass as per current ence ¹								
Third Schedule of the Wast	Third Schedule of the Waste Management Act								
D15 Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced	Class 13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced. This activity is limited to the temporary storage of waste at the proposed Civic Waste Facility in containers prior to disposal at an alternative appropriate facility							
Fourth Schedule of the Waste Management Act									
R3 Organic substance recycling/reclamation	Class 2	Recycling or reclamation of organic substances which are not used as solvents (including composting and							

¹ Waste Licence W0033-01 Schedule A: Waste Activities

D and R Codes	Class as per current licence ¹	
		other biological transformation processes): This activity is limited to composing of green waste and the recovery of recyclable organic materials including waste oils, paper and cardboard deposited at the proposed Civic Waste Facility
R4 Metal recycling/reclamation	Class 3	Recycling or reclamation of metals and metal compounds: This activity is limited to the collection of metals at the proposed Civic Waste Facility.
R5 Inorganic substance recycling/reclamation	Class 4	Recycling or reclamation of other inorganic materials: This activity is limited to the collection of glass at the proposed Civic Waste Facility and the recovery and reuse of inert waste for landfill restoration and construction works
R10 Land treatment resulting in benefit to agriculture or ecological improvement	Class 10	The treatment of waste on land with a consequential benefit for an agricultural activity or ecological system. This activity is limited to the composting of green waste and the use of such compost for landfill restoration purposes.
R11 Use of waste obtaine from any of the operation numbered R1 to R10		Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule: This activity is limited to the use compost for landfill restoration purposes
R13 Storage of wast pending any of the operations numbered R1 translations remains the storage, pending collection, on the sit where the waste produced)	e o y g	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced: This activity is limited to the temporary storage of recyclable and reusable waste pending their collection.

Specify, by reference to the relevant European Waste Catalogue 1.3 codes (List of Waste codes) as presented by Commission Decision 2000/532/EC of 3 May 2000, the quantity and nature of the waste or wastes which will be treated, recovered or disposed of

The landfill site is closed and no waste is accepted for disposal at the landfill site. A Civic Waste Facility is operated at the site. The Civic Waste facility accepts the following wastes.

- Magazines
- Cardboard
- Newspaper
- Plastic Bottles
- Plastic Milk Bottles
- Plastic Bags and Film
- **Aluminum Cans**
- Footwear
- Clothes
- Car Batteries
- Fluorescent Tubes

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- Glass Blue, Clear, Brown, Green
- Food & Biscuit Tins
- Small Batteries
- Electrical Equipment Including Televisions, Computer's, Microwaves, Kettles, Toasters, Hoovers, Radios, Washing Machines, Cookers, and Fridges etc.
- Metal
- Wood

The EWC codes are provided in Table 1.2.

Table 1.2: Waste Quantities (Tonnes) at Civic Waste Facility 2020 and tonnes which could be accepted assuming max 10,000 tonnes.

List of Waste Code	Quantity (Tonnes) 2019	Waste Description	Disposal or Recovery	Quantity (Tonnes) which could be accepted assuming max 10,000	Facility
20 03 01 A	62	Mixed residual waste	D05 - Specifically engineering landfill, non-hazardous waste.	222	Indaver
20 02 01	1032	Garden (green) waste	R03 - Composting (aerobic)	3695	Dundalk Landfill W0034-02
15 01 01	248	Cardboard & paper (segregated packaging waste only) e.g. cardboard boxes	R03 - Composting (aerobic) R03 - Other recycling or reclamation or organic substances which are rootused as solvents (to end-of-waste)	888	Peute Europe NI6000076
20 01 01	106	Cardboard & paper (non-packaging waste only) consent of	Other recycling of reclamation of organic substances which are not used as solvents (to end-of-waste)	380	Peute Europe NI6000076
15 01 07	237	Glass (segregated packaging waste only) e.g. glass bottles	R05 - Inorganic materials recycling or reclamation (to end- of-waste)	849	Glassden NI LN06/08
15 01 04	46	Aluminium and steel cans (mixed) (segregated packaging waste)	R04 - Metal and metal component recycling or reclamation (to end-of-waste)	165	Tinnelly NI LN09/I0
20 01 40 C	258	Other municipal metals (non-packaging)	R04 - Metal and metal component recycling or reclamation (to end-of-waste)	924	Tinnelly NI LN09/I0
15 01 02	339	Plastic (segregated packaging waste only) e.g. PET bottles	R03 - Other recycling or reclamation of organic substances which are not used as solvents (to end-of- waste)	1214	Sharba Plastics MN 080022-01
20 01 10 & 20 01 11	9	Clothes/textiles for recovery or disposal	R03 - Other recycling or reclamation of organic substances which are not used as	32	Textile Recycling

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List of Waste Code	Quantity (Tonnes) 2019		Disposal or Recovery	Quantity (Tonnes) which could be accepted assuming max 10,000	Facility
			solvents (to end-of- waste)		
15 01 03	157	Wood (segregated packaging waste) e.g. pallets, wooden crates	R03 - Other recycling or reclamation of organic substances which are not used as solvents (to end-of- waste)	562	Thorntons WO195-02
20 01 38	292	Wood (non-packaging waste, municipal)	R03 - Other recycling or reclamation of organic substances which are not used as solvents (to end-of- waste)	1045	Thorntons WO195-02
16 06 01*	7	Lead batteries	R04 - Metal and metal component recycling or reclamation (to end-of-waste)	25	Enva Irl
20 01 33 20 01 34		Batteries and Accumulators (Household	·	0	Enva Irl
20 01 21		Fluorescent tubes	(Atter 0	Irish Lamp Recycling
20 01 35 20 01 23		Electrical Goods	ne et ally ally	0	Radcliffe Waste Mgt Solutions

1.3.1 Storage of Waste and Other Materials

The current maximum amount of waste that is being held or stored at the installation at any one time is 80 tonnes. Storage bins, bays and receptacles of site including capacity to hold and store 30 tonnes. The storage building where baling takes place has a capacity of 50 tonnes. Currently the facility operates at 35% of its capacity and therefore has ample receptables, containers and storage arrangements in place for current and future operations.

Dry recyclables accepted at the facility deposited at the Civic Waste Facility are placed;

- Into a receptacle for recovery, or
- Into a designated inspection area.

Dry recyclables are stored, compacted and/or baled were required prior to shipping for recovery. The use of compaction/baler equipment increase the efficiency of materials collections at the site, increasing the sites capacity for accepting wastes and reducing the amount of vehicle movements to and from the site to service containers. The size of skips/bins on site are 30 to 40 cubic yards. The estimated storage capacity for the recycling facility for all waste (Table 1.3) is dependent on the number of skips required. This is dependent on the volume of waste being accepted which is currently below the waste licence maximum of 10,000 tonnes. A WEEE storage area has also been provided.

Table 1.3: Waste Storage Capacity at Civic Waste Facility

Material	Storage capacity
Electrical	15 caged receptacles of electronic and electrical equipment with a storage capacity of 3m ³ .
Cardboard, Newspaper, Books, Papers, Aluminum Cans, Plastic Milk Bottles, Plastic Bottles	Storage capacity in storage shed = 50 tonnes which includes loose and baled material
Batteries	Storage capacity – 500kg in receptacle

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Material	Storage capacity
Food Tins / Biscuit Tins	Storage capacity in bay area of 10 tonnes.
Glass Storage Capacity in Bay Areas	Clear-20 tonnes Blue-20 tonnes
	Green-20 tonnes Brown-20tonnes
Scrap Metal	Storage capacity in receptacle = 30m ³
Wood	Storage capacity in receptacle = 30m ³
Green Waste	Storage capacity in receptacle = 30m ³
Batteries	Household battery storage capacity = 1m ³
Fluorescent Tubes	Storage capacity in receptacles = 2m ³
Non-Recyclable Waste	Storage capacity in compactor of 5 to 10m ³
Quarantined Waste	Storage capacity of 2 tonnes

1.3.2 Transportation of Materials Off-Site

All material is deposited on-site, checked, sorted and baled (where applicable) and is only transported off site by the appropriate permitted contractors. Transport vehicles arriving to the site are checked by personal at the weighbridge. They are then weighed, loaded and weighed again before departing the site. All the necessary paperwork including weight of material, list of waste codes, date, signature, origin and destination of the material is recorded. Loading is supervised to ensure only the correct material is loaded.

1.4 Specify the raw and ancillary materials, substances, preparations, fuels and energy which will be utilised in or produced by the activity

Drogheda Landfill Site ceased accepting waste for disposal since the waste licence was granted on 30th December 1999. No raw and ancillary materials, substances, preparations are used at the facility. Energy used consists of electricity used by the enclosed landfill gas flare and the Civic Waste Facility.

1.5 Describe the plant, methods, processes, ancillary processes, abatement, recovery and treatment systems and operating procedures for the activity

1.5.1 Landfill

The site ceased to accept waste for disposal since the waste licence was granted in December 1999. The only materials accepted at the site since were inert wastes, which was utilised for capping at the site. Phase 1 capping works were completed in September 2007. Approximately 15,000m² of capping (Phase 2) in the former CRH lands to the north of the site was completed in December 2016.

Phase 3 capping works will be undertaken on a further area to the north of the site which has been acquired by Louth County Council. The capping of this area will deal with all areas of waste deposited outside the boundary to the Northern part of the site. This consists of an area encompassing approximately 14,000m².

1.5.1.1 Landfill Gas Management

Landfill gas is produced as a result of biodegradation of the organic fraction within the waste body. An active landfill collection and flaring system was agreed with the Agency in February 2001.

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The permanent gas extraction system was installed at the facility during 2006. A network of gas wells has been installed on the site for use in an active gas extraction system. The wells are connected via 63mm diameter pipework to a 250mm diameter main gas collection pipe. The gas wells are connected to this flare through a system of connecting pipework and manifolds (to allow better maintenance and to reduce the number of control points on the landfill site) to be installed after final capping of the site takes place. Self-dewatering well heads are used with wells where the connecting pipework falls towards the well.

A 750m³ enclosed flare unit is located in an enclosed compound adjacent to the site office and a Supervisory Control and Data Acquisition (SCADA) system was installed in 2005. A permanent gas monitoring system was installed in the site buildings. Landfill gas production within the landfill waste body has depleted since waste filling ceased in 1999 and therefore the 750m³/hr flare was replaced with a 150m³/hr low calorific high temperature flare with a combustion chamber temperature of between 1,000 and 1,100°C, minimum residence time will be 0.3 seconds and operating range for methane of 12 to 35% in August 2020.

1.5.1.1.1 Procedure

Landfill gas procedure for the site is included in Appendix B.

1.5.2 Civic Waste Facility Site Infrastructure

The main access to the Civic Waste Facility and landfill site is from the Collon Road. The entrance of the Civic Waste Facility consists of 8m wide and 2m high paladin gates which are kept locked when the site is not operational.

1.5.2.1 Enquires/Administrative Office

An enquiry/administrative office has been provided at the entrance of the facility, which contains CCTV (Static and Pan Tilt and Zoom cameras), telephone, facsimile and SCADA system for the Enclosed Landfill Flare. A Consent of copyright owner real fire extinguisher and first aid box are also provided. The office is used to process and store documentation. This area also includes:

- Weighbridge (16m wide)
- Parking for employees
- Site identification board
- Security fencing
- Site rules
- A fire hydrant

1.5.2.2 Civic Waste Facility

The Civic Waste Facility consists of:

- Recycling building with individual labelled slots of different waste
- Recycling service yard
- Designated storage area for WEEE
- Collection bins for Wood/Greenery/ Scrap Metal
- Collecting bays for glass
- Waste inspection and waste quarantine area

The Civic Waste Facility is open Monday - Friday 9.30am - 6.00pm and Saturday 9.00am - 3.00pm. The following are accepted at the Civic Waste Facility;

- cardboard
- magazines/paper

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- glass (green, brown, clear)
- aluminium cans
- steel food tins
- domestic plastics
- textiles (e.g. clothes) and footwear
- batteries
- scrap metal
- wood
- electrical and domestic appliances
- green garden waste
- miscellaneous.

All waste deposited at the Civic Waste Facility are placed;

- Into a receptacle for recovery, or
- Into a designated inspection area.

The storage containers and storage areas are clearly labelled with yellow backgrounds and black/green writing to indicate their content. There are samples or signage describing the type of waste which can deposited into each container.

1.5.2.3 Process at the Civic Waste Facility

The public must access the site via a barrier with signage which displays the entrance fee. An office is located at the barrier with a trained staff member who monitors material coming in and advises the public on what items can be accepted at the site and where materials should be placed. Throughout the facility there are trained staff members who monitor to ensure that no unauthorised material is deposited at the facility and no contaminated material is deposited, for example pieces of wood with metal fittings attached.

Throughout the site there is also signage listing the correct items to be deposited at particular locations around the site. Staff members also assist with queries, public education, health and safety of the site and monitoring of materials being deposited. The facility operates a one-way system to ensure an orderly and safe experience.

1.5.2.4 Plant at the Civic Waste Facility

The following plant is used at the Civic Waste Facility:

- A compactor is used to reduce and compress waste
- A baler is used to transform waste into solid blocks of recyclable material
- Conveyor is used for sorting of waste materials.

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Picture 1 Plant at the Civic Waste Facility

1.5.2.5 Waste Acceptance Procedures

The waste acceptance procedure for the Civic Waste Facility is as follows:

- Incoming Recyclables/Waste to be inspected by trained staff member, if suitable directed to designated clearly labelled areas. Information is given to members of the public how best to segregate at source.
- Unsuitable material e.g. Hazard material is not accepted.

If unsuitable material was to be found, a member of staff would remove, with appropriate PPE and place in quarantine area/bin measuring 2m x 3m has capacity to holds tons. The quarantine area is located at rear of building. This material would then be collected by a suitable ticence holder and brought to licence facility

1.5.2.5.1 Procedure for Cardboard, Magazines, Books, Newspaper, Paper

Cardboard, magazines, books, newspaper, and paper materials are deposited into individual and clearly signed receptacles. These are monitored by staff to ensure only correct material is deposited. Once deposited into the receptacles the material is directed to separate bay areas via chutes. Material in these bay areas are checked to ensure no contamination; material is then loaded onto a conveyor and from there into a baling machine. The bales are stored onsite inside a weatherproof shed and transported offsite to the facility; Peute Europe in loads ranging from 20 to 25 tonnes.

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Picture 2 Cardboard, Magazines accepted at the Civic Waste Facility

1.5.2.5.2 Procedure for aluminium caps, plastic milk bottles, plastic bottles, plastic film/bags and footwear/clothing

In the same area as above, there are additional receptacles and chutes to separate bay areas for the following materials – aluminum cans, plastic milk bottles, plastic bottles, plastic film/bags, footwear and clothing. These areas are clearly signed and material deposited at these areas is monitored by staff. The material deposited is diverted into separate bays, checked and contaminated material removed where required. These separate streams are pushed onto a conveyor and baled and stored in this storage area.

- Aluminum Cans Transported off site in 10 tonne loads,
- Plastic Milk Bottles Transported off site in 10 tonne loads,
- Plastic Bottles Transported off site in 10 tonne loads,
- Plastic Bags/Film Transported off site in 10 tonne loads,

This material is collected by a permitted contractor and transported to the following facilities.

- Aluminum Cans Tinnelly NI CN 09/10,
- Plastic Milk Bottles Sharba Plastics MN 080,022-01,
- Plastic Bottles Sharba Plastics MN 080,022-01,
- Plastic Bag/Film Sharba Plastics MN 080022-01.

Footwear and clothing material are checked, stored in heavy duty bags, and periodically given to charity.

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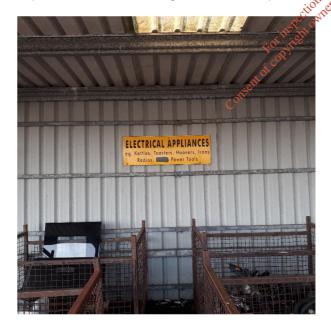




Picture 3 Aluminium cans and plastics accepted at the Civic Waste Facility

1.5.2.5.3 Procedure for Electrical Goods²

Items are deposited by the public in a weatherproof area into various cages and receptacles which are clearly labelled, specifying the materials to be deposited. Materials being deposited are monitored by staff to ensure no non-electrical items are deposited. The area consists of 1.8 4m³ cages. When the cages are full, the material is transported off site by a permitted contractor. Transport off site occurs twice per week and empty cages are left in place. Annually 650 to 600 tonnes of electrical goods are transported off site to an authorised site (Radcliffe- Waste Management Services).





Picture 4 Electrical Goods accepted at the Civic Waste Facility

'

² The acceptance of electrical items was provided by an amendment to the licence in June 2016.

1.5.2.5.4 Procedure for Fluorescent Bulbs

Fluorescent bulbs are deposited into closed containers and monitored by staff. When capacity is reached, empty containers are put in place and the full containers are transported to Irish Lamp Recycling by a permitted contractor. Annual quantities transported off site are approximately 500kg.



Picture 5 Fluorescent Bulbs accepted at the Civic Waste Facility

1.5.2.5.5 Procedure for Car-Batteries

Car batteries are collected in a sealed container and when full are collected by a permitted contractor and transported to Enva Ireland.

Empty containers are then put in place. Monitoring is carried out to ensure only car batteries are deposited. Container is replaced on average every 3 to 4 months; therefore, 500kg is taken off site every 3 to 4 months.

1.5.2.5.6 Procedure for Household Batteries

Household Batteries are deposited in sealed containers and when full collection is arranged and transported by a permitted contractor to Enva Ireland. Monitoring is carried out to ensure only household batteries are deposited. Quantities removed off site are approximately 2 tonnes per annum.



Picture 6 Household Batteries accepted at the Civic Waste Facility

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1.5.2.5.7 Procedure for Food Tins and Biscuit Tins

Food tins and biscuit tines are deposited into a receptacle and from there slide into a bay area. The bay area has a capacity for 10 tonnes of material. Periodically during a working week, this material will be loaded, checked for non-tin material and contamination, put onto a conveyor belt and baled. They are kept in storage prior to transport off site to the following facility Tinnelly NI LN 09/IC in 10-15 tonne loads.

1.5.2.5.8 Procedure for Glass

The facility accepts blue, clear, green and brown glass. They are deposited into clearly marked and colour coded receptacles which lead to separated bays. The material is monitored to ensure that non-glass items are not deposited and that the correct glass colour receptacle is used. Each bay area for each glass colour has the capacity for 20 tonnes. Material in these bays is transported off site to the following facility Glassdon NILN 06-08. Material is transported off site in 20 tonne individual coloured glass loads.



Picture 7 Glass accepted at the Civic Waste Facility

1.5.2.5.9 Procedure for Non-Recyclable Waste

There is provision in the site for the public to deposit black bin bag waste into a compactor. Only non-recyclable non-hazardous waste is accepted. The waste is transported off site by a permitted contractor to a licenced facility (Indaver, Duleek, Co. Meath). The capacity of the compactors ranges from 5 to 10 tonne.

1.5.2.5.10 Procedure for Green Waste

Green waste material consisting of grass, hedge and shrub cuttings is deposited into 30m³ containers. When full the material is transported to V and W recycling centre in Dundalk and is used in the composting process which is licensed under EPA licence W0034-02. This type of material is seasonal and the number of containers collected on a weekly basis can range from 1 to 3 containers. Material is only stored for a short period in the yard area prior to transport to Dundalk. Monitoring of materials deposited is carried out to ensure only authorized green waste is deposited.

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Picture 8 Green waste accepted at the Civic Waste Facility

1.5.2.5.11 Procedure Scrap Metal

Scrap metal is deposited into a 30m³ container and when full is taken off site by a permitted contractor and brought to the following authorised facility Tinnelly NI LN09/IC. An empty container is left in place and the process continues. The quantity of material deposited will vary and can range from one to two containers a week.

Signage is in place and material deposited in the metal container is monitored by staff to ensure non-metal items are not placed in the container.

1.5.2.5.12 Procedure for Wood

Wood material is deposited in 20 to 30 m³ containers. There is signage in place and supervision to ensure that non wood items are not placed in the container. When the containers are full, they are stored in the general yard area for a short period, prior to ransport by a permitted handler to Thorntons W0195-02. An empty container is put in place and the process continues. 1 to 2 containers of wood are collected on a weekly basis.



Picture 9 Wood accepted at the Civic Waste Facility

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1.5.2.5.13 Quarantine

In order to minimize contamination of materials, the facility uses a large amount of signage and trained staff to ensure that materials destined for a receptable or bay is the correct material. The public are further advised by information on the website, telephone queries, onsite queries and educational programmes such as site visits by schools and community groups. In the event of material being found during the course of monitoring and inspection by staff it is immediately removed from the area and placed in the quarantine area which has the capacity for 2 tonnes of material. Materials are then collected by a permitted contractor and brought to the appropriate facility for treatment and/or disposal.

1.5.2.5.14 Raw Materials

No raw materials are used or processed on site as no items are produced or manufactured on site. The facility is essentially for the public to deposit recyclable material, minor sorting of material, loading baling, storage and transport to different facilities. There are no additions of raw material, no magnetic sorting, any electrical or mechanical sorting, any blending or transformation at the facility.

1.5.2.5.15 Ancillary Materials

No ancillary materials are used at the facility.

1.6 Provide particulars of the source, location, nature, composition, quantity, level and rate of emissions arising from the activity and, where relevant, the period or periods during which such emissions are made or are to be made

1.6.1 Air

In accordance with Guidance Note on Landfill Flare and Engine Management and Monitoring, landfill gas shall be collected from all landfills receiving biodegradable waste and the landfill gas must be treated and used. If the gas collected cannot be used to produce energy, it must be flared.

As per section 1.5.1.1 of this report, a 150m³/hr low calorific high temperature flare was installed at the site in 2020 to manage the reducing landfill gas production levels at the closed landfill site. The permanent gas extraction system and an enclosed landfill gas flare was initially installed at the facility during 2006.

Flue gas monitoring is undertaken annually on the landfill gas flare. All monitoring was carried out in accordance with Environmental Protection Agency Office of Environmental Enforcement (OEE) Air Emission Monitoring Guidance Note 2 (AG2). This report is submitted to the EPA via EDEN. There are no monitoring requirement or emission limit values for landfill gas flare in the current licence for the site. The following parameters are currently monitored annually:

- Carbon Monoxide (CO)
- Oxides of Nitrogen (NOx) as NO2

Monitoring results are uploaded to EDEN in the biannual reports and Annual Environmental Reports (AER). There are no processes in the Civic Amenity Site which give rise to air emissions, apart from vehicle emission from the two vehicles (Forklift and Teleporter) which are serviced on a regular basis.

1.6.2 **Dust**

As per existing licence conditions, dust is monitored at four locations three times per annum and results uploaded to EDEN in the biannual reports and AER's. As the landfill site is closed there are no dust emissions from this part of the facility.

Due to the type of waste being accepted and waste acceptance procedures at the Civic Waste Facility, sources of dust are minimal. Dust monitoring was carried out on three occasions during 2020. The waste licence requires dust deposition limits to be no more than 350 mg/m²/day. From Table 1.4 it can be seen that all dust deposition levels in all periods are below the limit.

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Table 1.4: Results from Dust Monitoring Analysis at Drogheda Landfill Site 2020 (mg/m²/day)

Sampling Date	Dust Monitor 1	Dust Monitor 2	Dust Monitor 3	Dust Monitor 4
July	137.9	91.22	119	87.02
August	139.5	194.1	285.3	330.1
December	51.6	42.27	52.29	79.13

1.6.3 Surface Water

Clean surface water from hard standing areas in the Civic Waste Facility is collected in a sump and pumped to Irish Water combined sewer and monitored as per licence conditions at monitoring point S1.

Surface water from the landfill site capped areas is discharged to the existing quarry lake at monitoring points SW4 and SW5. Monitoring results are uploaded to EDEN in the biannual reports and AER's. Results from SW4-SW5 were compared to Surface Water (EQS) and Drinking Water (SWQS) Regulations thresholds. Surface water results from the capped area are within their relative thresholds and do not indicate an impact from the landfill except for a spike in ammonia at SW4 and manganese at SW5 in May 2020.

1.6.4 Trade Effluent

There is currently no trade effluent or process effluents emissions to the Trish Water combined sewer from the closed landfill facility. Condensate from the methane stripper on the landfill site is now tankered from site following agreement with EPA and Waste Water Treatment Rlant Operator. The volume tankered is minimal equating to approximately 10-20 m³ per annum

There are no trade effluent or process effluents associated with the Civic Waste Facility. Domestic sewage from the site is pumped to the Irish Water combined sewer and monitored as per licence conditions at monitoring point S1 and treated at Drogheda Waste Water Treatment Plant. Monitoring results are uploaded to EDEN in the biannual reports and AER's. All parameters were below the emission limit value in 2020 except for suspended solids in August (Table 1.5).

Table 1.5: Emissions to Sewer (Civic Waste Facility)

Parameter Emission	Grab sample	18-Feb-2020	19-May-2020	26/08/2020	17/11/2020
Limit value	Emission Limit				
BOD (mg/l)	335	1.15	<1.00	30.70	1.87
COD (mg/l)	450	<25	27	236	123
Ammonia (mg/l as N)	35	<0.2	<0.11	0.33	< 0.11
Suspended Solids (mg/l)	294	88	12	1,580.00	6.00
Sulphate (as SO ₄) (mg/l)	240	19.7	17.5	6.96	17.00
pH (units)	6 – 9	7.95	7.6	7.46	7.57
Temperature °C	32.0°C	9.1	10	18.7	18.4

1.6.5 **Noise**

Noise is monitored as per the licence conditions (Table 1.6) on an annual basis and reports uploaded to Eden. As the landfill site is closed there are no sources of operational noise from this part of the facility. The landfill gas flare is located adjacent to the Civic Waste Facility.

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Table 1.6: Noise Monitoring at Drogheda Landfill Site³

Location	Monitoring Frequency	Parameter	Emission Limits
NSL 1	Daytime:	L(A)EQ [30 minutes]	Day dB(A) LAeq(30 minutes) 55
NSL 2	Evening time:	L(A)10 [30 minutes]	Night dB(A) LAeq(30 minutes) 45
NSL 3	Night time:	L(A) 90 [30 minutes]	
		Frequency Analysis(1/3 Octave band analysis)	

1.7 Provide details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than that into which the emissions are, or are to be made, and of proposed measures to prevent or eliminate or, where that is not practicable, to limit or abate such emissions

As per Section 1.6 there are existing emissions to air, surface water and sewer. These emissions are monitored as per current waste licence or as agreed with EPA Office of Environmental Enforcement.

The permanent gas extraction system and an enclosed landfill gas flare (750m³/hr) was initially installed at the facility during 2006 following agreement with the EPA. Air Dispersion Modelling was undertaken at this time. The 750m³/hr flare was replaced with a 150m³/hr low calorific high in August 2020 as agreed with EPA Office of Environmental Enforcement (LR045086 LS Approval - Notice C1.2-SEW Approval Replacement of Flare). The Drogheda flare 150m³ emissions report for 2020 is instituted in Appendix C.

1.8 Identify monitoring and sampling points and indicate proposed arrangements for the monitoring of emissions and the environmental consequences of any such emissions,

1.8.1 Monitoring Locations

Monitoring is carried out at locations and at frequencies as specified in Schedule F of the waste licence (W0033-01). Permanent access to all monitoring points is maintained. All monitoring points are shown in Drawing No IBR1237/103A Monitoring Locations in Appendix A and Table 1.7.

Table 1.7: Grid References of Monitoring Points

Monitoring Points	Easting	Northing
Gro	undwater Boreho	les ⁴
BH1A	306775	276408
BH2A	306865	276466
ВНЗА	307057	276060
BH4A	306955	276519

³ Waste Licence W0033-01 Schedule F.3 Noise and G.1 Noise Emissions

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⁴ Boreholes BH4A and BH10A were installed in March 2000. Boreholes BH1A, BH2A, BH3A, BH5A, BH6A, BH7, BH8A, BH9A and BH11A were installed in August 2001.

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Monitoring Points	Easting	Northing		
BH5A	307044	276559		
ВН6А	307183	275915		
3H7	307208	276602		
ВН8А	307248	275888		
ЗН9А	307396	275852		
BH10A	307501	275928		
BH11A	307368	276157		
	Surface Water			
SW1	307164	276270		
SW2	307414	276470		
SW3	307388	275910		
SW4	307076	276233		
SW5	307244	276187		
Gas Piezometers Boreholes ⁵ LG1A 306783 276395 dill and a 276395				
G1A	306783	276395 of 3 of 3		
G2	306831	276333 red 10		
G3	306878	276338 red 276285 276281 276241		
.G4	306923	:115 11 276221		
.G5	306961	276174		
_G6	307564 _{Re} ent	276281		
.G7	307580	276241		
.G8	307029	276152		
.G9	306963	276270		
.G10	306925	276277		
Le	eachate Boreholes	6		
.1A	307016	276244		
.2A	307027	276332		
_3A	307214	276375		
.4A	307290	276332		

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⁵ LG1 to LG7 were installed in October 1998. LG8 to LG10 were installed in February 2012. LG1 was redrilled in 2016 due to a change in boundary and renamed LG1A

⁶ Leachate monitoring points L1A to L5A were installed in February 2000. No samples of leachate were collected as these monitoring locations are dry.

Monitoring Points	Easting	Northing
L5A	307359	276279
	Noise	
N1	306786	276384
N2	306850	276238
N3	307311	275840
	Dust	
DG1	306854	276352
DG2	307024	276073
DG3	307539	275993
DG4	307131	275903

A hydrogeological risk assessment (HRA) was completed 2015. The HRA recommended

- Decommissioning and replacement of monitoring boreholes BH4A and BH5A. Louth County Council have gained access to five boreholes located in CRH lands to the north of the site. It is proposed to monitor one of these boreholes in lieu of BH5A subject to confirmation of fit for purpose by a hydrogeologist until a suitable replacement borehole location is identified. These preholes will be replaced in the Phase 3 capping works.
- The HRA recommended that monitoring borehole BHSA be decommissioned due to the non-detection of og perion per rec elevated contaminants throughout the monitoring period and due to its proximity to borehole BH8A.

1.8.2 Groundwater

As required under the Waste Licence, groundwater monitoring has been undertaken at the borehole locations as set out in the waste licence. Schedule Fof the current waste licence requires the monitoring of certain parameters on either a monthly, quarterly annual basis. The monitoring frequency has now been reduced to quarterly as agreed with OEE. The proposed groundwater parameters and monitoring frequencies is as shown in Table 1.8.

Table 1.8: Proposed Groundwater and Surface Water Parameters and Monitoring Frequencies

	•	• .	
Proposed Monitoring Locations			
	BH1A, BH4A (replace), BH5A (replace), BH10A, BH11A only.	BH2A, BH3A, BH7A, BH8A & BH9A only	
Weekly	-	-	
Monthly	-	-	
Quarterly	BH1A, BH4A, BH5A, BH10A, BH11A only Visual Inspection and Odour, Groundwater Level Ammoniacal Nitrogen Electrical Conductivity, pH, Temperature, Chloride, Dissolved Oxygen Barium, Cadmium, Chromium, Iron, Lead, Nickel, Manganese, Potassium, Sodium, TON, TOC, Nitrate, Nitrite		
Biannually		BH2A, BH3A, BH7A, BH8A & BH9A only Visual Inspection and Odour, Groundwater Level Ammoniacal Nitrogen	

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Proposed Monitoring Locations		
	BH1A, BH4A (replace), BH5A (replace), BH10A, BH11A only.	BH2A, BH3A, BH7A, BH8A & BH9A only
		Electrical Conductivity, pH, Temperature, Chloride,
		Dissolved Oxygen
		Barium, Cadmium, Chromium, Iron, Lead, Nickel,
		Manganese, Potassium, Sodium,
		TON, TOC, Nitrate, Nitrite
Annually	All boreholes	
-	Boron, Calcium, Copper, Fluoride, Magnesius	m Sulphate, Total Phosphorous, Total Phenol
Every 2 years	Faecal Coliforms,	Faecal Coliforms,
	Total Coliforms	Total Coliforms
	VOCs and sVOCs I	VOCs and sVOCs

1.8.3 Surface Water

SW1 and SW3 are located in the lake on site. Water within the former quarry void is considered to be groundwater. Monitoring point SW2 is located in the cement works pond, which is adjacent and upstream of the site. SW2 was relocated slightly north in July 2018 for health and safety reasons as requested by the EPA during a site visit. SW4 and SW5 monitor the surface water arising from the capped area.

Schedule F of the waste licence requires the monitoring of certain parameters on either a quarterly or annual basis. The monitoring frequency has now been reduced to Six Monthly as agreed with OEE. The proposed parameters and monitoring frequencies is as per HRA report 2015 as shown in Table 1.9.

Table 1.9:Surface Water Monitoring Frequency

Monitoring Frequency	Parameter http://difect.com/
Six Monthly	Visual Inspection, Ammoniacal Nitrogen, BOD, COD, Chloride, Dissolved Oxygen. Electrical Conductivity, PH. Total Suspended Solids, Temperature, Cadmium, Total Chromium, Iron, Lead, Potassium, Total Phosphorus, Barium, Nickel, Nitrate, Nitrite, Phenol.
Annually	Calcium, Copper Magnesium, Manganese, Mercury, Sulphate, Sodium, TON (removed Total Alkalinity & Zinc)
Every 2 years	VOCs and sVOCs

1.8.4 Discharge to Sewer

There are two discharge points to sewer; treated condensate from the methane stripper (Closed Landfill Facility) and the discharge point to sewer from Civic Waste Facility. Condensate from the methane stripper is now tankered from site following agreement with EPA and Waste Water Treatment Plant Operator. There are currently no emissions to sewer from Closed Landfill Facility. There are no proposed changes to the current Emission Limit Values for Emissions to Sewer as per Table 1.10.

Table 1.10: Emission Limit Values for Emissions to Sewer Civic Waste Facility and Landfill Facility

Parameter Emission Limit Value	Grab Sample mg/l ELV (1) Civic Waste Facility	Grab Sample mg/l ELV (2) Closed Landfill Facility
BOD	335	1770
COD	450	8000
Ammoniacal Nitrogen NH4-N	35	2040

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Suspended Solids	294	1500
Sulphates (as SO4)	240	322
pH	6 – 9	6 – 9
Temperature	32°C	32°C

1.9 **Perimeter Gas Monitoring**

The licence trigger levels for the following landfill gases are:

- greater than or equal to 1.0% v/v Methane (CH₄) and;
- greater than or equal to 1.5% v/v Carbon Dioxide (CO₂).

There are no proposed changes to the current licence trigger for landfill gases

1.10 Flue Gas Monitoring

As per section 1.6.1 flue gas monitoring was undertaken in 2020 on the landfill gas flare. All monitoring was carried out in accordance with Environmental Protection Agency OEE Air Emission Monitoring Guidance Note 2 (AG2). This report has been submitted to the EPA.

CO and NOx as NO₂ results were compliant with the typical emission dimit values used for such installations in Ireland (CO 50 mg/m³, 150 NO_x mg/m³).

Ireland (CO 50 mg/m³, 150 NOx mg/m³).

1.11 Dust Monitoring

As per existing licence conditions, dust is monitored at four locations three times per annum and results upleaded to EDEN in the biannual reports and AED at the property and a property uploaded to EDEN in the biannual reports and AER's. Dust monitoring was carried out on three occasions in 2020. Table 1.4 in Section 1.6.2 details the results of the dust monitors installed on site. The waste licence requires dust deposition limits to be no more than 350 mg/m²/day.

1.12 **Noise**

Noise monitoring was undertaken on Thursday 5th of March in 2020. Traffic was found to be the predominant source of noise at all locations. Reduced traffic noise levels during the night-time measuring period provides a more accurate representation of background noise against which any potential noise levels arising from the site activities could be compared. The findings show that during the night-time measurements and during lulls in traffic noise there was no noise audible from the landfill site. The Annual Noise Monitoring Report March 2020 is included in Appendix D.

1.13 Describe any proposed arrangements for the prevention, minimisation and recovery of waste arising from the activity concerned,

A Civic Waste Facility is operated at the site. The only waste arising at the facility is from the site office operation on site. All other wastes arising from the activity are from items deposited by members of the public. The facility ensures that material which can be reused, recovered and recycled is not disposed of at landfill and/or incinerator. All the materials, collected, sorted, baled and in containers at the site are sent to facilities which reuse and recycle the materials and thus prevent the disposal of materials.

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1.14 Describe any proposed arrangements for the off-site treatment or disposal of solid or liquid wastes.

1.14.1 Landfill

Treated condensate from the methane stripper was previously discharged to sewer. Condensate from the methane stripper is currently tankered offsite to Drogheda Wastewater Treatment Plant following agreement with EPA and Wastewater Treatment Plant Operator. The volume tankered is minimal equating to approximately 10-20 m³ per annum.

1.14.2 Civic Waste Facility

All waste deposited onsite is checked, sorted and baled (where applicable) is only transported off site by the appropriate permitted contractors. Transport vehicles arriving to the site are checked by personal at the weighbridge. They are then weighed, loaded and weighed again before departing the site. All the necessary paperwork including weight of material, list of waste codes, date, signature, origin and destination of the material is recorded. Loading is supervised to ensure only the correct material is loaded. The current arrangements for the off-site treatment or disposal of solid or liquid wastes is outlined in Section 1.5.2.5 of this report.

1.15 Describe the existing or proposed measures, including emergency procedures, to prevent unauthorised or unexpected emissions and minimise the impact of the environment of any such emissions

tagith, tagith, tagith, teding the constitution of the constitutio The existing Emergency Response Procedure for the facilities included in Appendix E. This includes for

- Fire
- Plant breakdown
- Significant spillages
- Slope Stability.

Describe the proposed measures for the closure, restoration, 1.16 remediation or aftercare of the facility concerned, after the cessation of the activity in question

The site ceased to accept waste for disposal when the waste licence was granted in December 1999. The only materials accepted at the site since were inert wastes, which was utilised for capping at the site. Phase 1 capping works were completed in September 2007. This consisted of:

- Installation of 55 No. gas extraction wells;
- Installation and commissioning of an active gas extraction flare (750 m³/hr) and methane stripper;
- Installation of capping layers consisting of Gas Drainage Layer, LLDPE capping and Surface Water Drainage Layer (A total area of approximately 101,650m2);
- Reinforcement of the capping system using georgic on slopes greater than 1 in 2.5; Surface Water Drainage System;
- Construction of a 1.0m high safety bund along cliff edges on the site to improve safety;
- Subsoil and topsoil have been placed above the capping layer to a depth of 850mm and 150mm respectively across the site.

Approximately 15,000m² of capping (Phase 2) in the former CRH lands to the north of the site was completed in December 2016. Works included;

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- Installation of 4 No. gas extraction wells and horizontal gas extraction pipework.
- Installation of capping layers consisting of Gas Drainage Layer, LLDPE capping and
- Surface Water Drainage Layer (A total area of approximately 14,600m²).
- Reinforcement of the capping system using geogrid on slopes greater than 1 in 3.
- Surface Water Drainage System.
- Subsoil and topsoil have been placed above the capping layer to a depth of 850mm and 150mm respectively across the site.

Phase 3 capping works will be undertaken on a further area which has been acquired by Louth County Council. The capping of this area will deal with all areas of waste deposited outside the boundary to the Northern part of the site. This consists of an area encompassing approximately 14000m². The proposed works to be undertaken as part of this Contract are outlined below:

- Final capping of waste following re-profiling of the site. The capping will consist of a geonet gas collection layer, a Linear Low Density Polyethylene (LLDPE) layer, surface water drainage layer (geonet), 850mm subsoil layer and a 150mm deep topsoil layer as undertaken in restoration works 2005-2007 and 2016.
- Reinforcement of capping layer on slopes greater than 1 in 4.
- Installation of gas wells, horizontal gas extraction pipework and connection to the existing landfill gas extraction system.
- Installation of surface water drainage channel to the edge of the proposed capping area on its Northern and Eastern fringe.
- 1.17 In the case of an activity which gives rise or could give rise to an emission into an aquifer containing the List I and II substances specified in the Annex to Council Directive 80/68/EEC of 17 December 1979, describe the existing or proposed arrangements necessary to give effect to Articles 3, 4, 5, 6, 7, 8, 9 and 10 of the aforementioned Council Directive

Drogheda Landfill Site opened in 1983 and has ceased accepting waste for disposal at the landfill since the waste licence was granted on 30th December 1999 as required by the Waste Management (Licensing) Regulations, 1997. This closed landfill is unlined and contains primarily household, commercial, construction and demolition and industrial non-hazardous solid waste. No further waste will be disposed of at the facility.

The site originally operated as a limestone quarry. All quarrying operations ceased in 1979 and water levels were allowed to return to equilibrium on cessation of the reported dewatering activities. The facility subsequently opened as a landfill facility in 1983 for the disposal of household, commercial, construction, demolition and industrial non-hazardous solid waste. The site ceased landfill operations in 1999 and was subsequently capped and developed into open space in 2007.

List I and II substances as per Council Directive 80/68/EEC of 17 December 1979 are listed in Table 1.11. A Hydrogeological Risk Assessment was undertaken in 2015 in accordance with licence requirements. This report noted no List I substances in groundwater for those boreholes and parameters monitored as per licence requirements. List II substances (ammonia, barium, electrical conductivity, chloride, iron, manganese, lead, nickel, potassium) were detected in up and downgradient boreholes at times

Table 1.11: List I and list II substances

List I List II

List I contains the individual substances which belong to the List II contains the individual substances and the categories families and groups of substances enumerated below, with of substances belonging to the families and groups of the exception of those which are considered inappropriate tosubstances listed below which could have a harmful effect list I on the basis of a low risk of toxicity, persistence and bioaccumulation.

The following metalloids and metals and their compounds:

1. Zinc 2. Copper 3. Nickel 4. Chrome 5. Lead

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List I List II

Such substances which with regard to toxicity, persistence and bioaccumulation are appropriate to list II are to be classed in list II.

- 1. Organohalogen compounds and substances which may form such compounds in the aquatic environment
- 2. Organophosphorus compounds
- 3. Organotin compounds
- 4. Substances which possess carcinogenic mutagenic or teratogenic properties in or via the aquatic environment (1)
- 5. Mercury and its compounds
- 6. Cadmium and its compounds
- 7. Mineral oils and hydrocarbons
- 8. Cyanides.

- 6. Selenium 7. Arsenic 8. Antimony 9. Molybdenum
- 10. Titanium 11. Tin 12. Barium 13. Beryllium
- 14. Boron 15. Uranium 16. Vanadium 17. Cobalt
- 18. Thallium 19. Tellurium 20. Silver.
- 2. Biocides and their derivatives not appearing in list I.
- 3. Substances which have a deleterious effect on the taste and/or odour of groundwater, and compounds liable to cause the formation of such substances in such water and to render it unfit for human consumption.
- 4. Toxic or persistent organic compounds of silicon, and substances which may cause the formation of such compounds in water, excluding those which are biologically harmless or are rapidly converted in water into harmless substances.
- 5. Inorganic compounds of phosphorus and elemental phosphorus.
- 6. Fluorides.
- 7. Ammonia and nitrites. (1)Where certain substances in list II are carcinogenic, mutagenic or teratogenic, they are included in category 4 of this list.

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Mitigation measures have been installed at the site to limit the introduction into groundwater of substances in list II so as to avoid pollution of this water by these substances. Restoration and capping works have been undertaken in a number of Phases, with Phase 1 capping works being completed in September 2007. Approximately 15,000 m² of capping (Phase 2) in the former CRH lands to the north of the site was completed in December 2016. Phase 3 capping works will be undertaken on a further area which has been acquired by Louth County Council. The capping of this area will deal with the remaining area of waste deposited outside the boundary to the Northern part of the site. This consists of an area encompassing approximately 14000 m². All works have been undertaken as per Specified Engineered Works as agreed with EPA.

The 2015 HRA report also found that based on available site data at the time, the risk posed by Drogheda Landfill to the underlying GWB, the River Boyne and any potential down-gradient groundwater users was considered to be low. This report found that based on the recorded groundwater quality data at Drogheda Landfill, there was no sustained upward trends in groundwater contaminant export from the site. In addition, the report found that all parameters when detected above the GTV were significantly below the 100xGTV rule of thumb with the exception of BH5A and to a lesser extent BH3A. These localised exceedances were not deemed likely to affect the WFD status of the groundwater body or the WFD objectives.

Given the existing relatively good groundwater quality both upgradient and downgradient of the landfill, with the exception of localised impacts at wells BH4A, BH5A and to a lesser extent at BH3A, it was proposed in 2015 to assign compliance values based on a combination of the existing 2010 GTVs, EPA IGVs and 2 x standard deviation levels of the mean values since 2007 (i.e. post landfill capping). Exceedance of these compliance levels would warrant further assessment. Any exceedances would also be considered in conjunction with a trend analysis of the data to ascertain increasing levels over time. Levels below these compliance values in addition to downward or stable trends would confirm that the impact or risk of the landfill on groundwater and surface waters is acceptable. The 2015 HRA report is included in Appendix F. A number of recommendations were provided in the report including the decommissioning and replacement of selected monitoring boreholes. This will be undertaken as part of the Phase 3 capping works following the granting of the licence review. As per section 1.8.2 and Table 1.7 of this report a groundwater monitoring programme is in place at the facility.

A review of Annual Environmental Reports for 2015-2020 show that List I substances were below the relative GTV, DWR and IGV in groundwater for those boreholes and parameters monitored as per licence requirements except Cadmium in BH4A in September 2016 and May 2020.

1.18 Describe in outline the main alternatives, if any, to the proposals contained in the application which were studied

Phase 3 capping works will be undertaken on a further area which has been acquired by Louth County Council. The capping of this area will deal with the remaining area of waste deposited outside the boundary to the Northern part of the site which consists of an area encompassing approximately 14,000 m². Louth County Council are applying to change the boundary of the landfill to include an additional 1.22 hectares of land where historically waste was landfilled by Drogheda Borough Council. This land has been purchased by Louth County Council from a third party and specified engineering works have been submitted to the EPA for approval to cap this area and provide appropriate monitoring infrastructure for gas and groundwater. These works cannot be undertaken until a review of the licence in relation to the boundary change has been completed. There are no alternatives to the proposed works to be completed.

1.19 Describe how the waste hierarchy in section 21A of the Act is applied

By the very nature of the operation of the facility the principals of the waste hierarchy are being applied. The facility ensures that material which can be reused, recovered and recycled is not disposed of at landfill and/or incinerator. All the materials, collected, sorted, baled and in containers at the site are sent to facilities which reuse and recycle the materials and thus prevent the disposal of materials. In addition the facility is proactive in education programs through the use of its website, leaflets and site visits by schools and community groups.

Section 29(2A) of the Waste Management Act 1996 as amended states that it shall be the duty of waste producers and holders to ensure that waste undergoes recovery operations in accordance with sections 21A (Waste Hierarchy) and 32(1) of the Waste Management Act.

Dry recyclables are stored, compacted and/or baled were required prior to shipping for recovery. All current waste accepted are sent for recovery as shown in Table 1.22 Only mixed residual waste is sent for disposal.

List of Waste Code	Waste Description Figure	Disposal or Recovery
20 03 01 A	Mixed residual waste	D05 - Specifically engineering landfill, non-hazardous waste.
20 02 01	Garden (green) waste	R03 - Composting (aerobic)
15 01 01		R03 - Other recycling or reclamation of organic substances which are not used as solvents (to end-of-waste)
20 01 01	Cardboard & paper (non-packaging waste only) e.g. news & pams	R03 - Other recycling or reclamation of organic substances which are not used as solvents (to end-of-waste)
15 01 07	Glass (segregated packaging waste only) e.g. glass bottles	R05 - Inorganic materials recycling or reclamation (to end-of-waste)
15 01 04	Aluminium and steel cans (mixed) (segregated packaging waste)	R04 - Metal and metal component recycling or reclamation (to end-of-waste)
20 01 40 C	Other municipal metals (non-packaging)	R04 - Metal and metal component recycling or reclamation (to end-of-waste)
15 01 02	Plastic (segregated packaging waste only) e.g. PET bottles	R03 - Other recycling or reclamation of organic substances which are not used as solvents (to end-of-waste)
20 01 10 & 20 01 11	Clothes/textiles for recovery or disposal	R03 - Other recycling or reclamation of organic substances which are not used as solvents (to end-of-waste)
15 01 03	Wood (segregated packaging waste) e.g. pallets, wooden crates	R03 - Other recycling or reclamation of organic substances which are not used as solvents (to end-of-waste)
20 01 38	Wood (non-packaging waste, municipal)	R03 - Other recycling or reclamation of organic substances which are not used as solvents (to end-of-waste)
16 06 01*	Lead batteries	R04 - Metal and metal component recycling or reclamation (to end-of-waste)

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1.20 Describe how the activity is consistent with the objectives of the relevant waste management plan or the hazardous waste management plan,

The three key targets of the Eastern-Midlands Region Waste Management Plan⁷ are:

- Reduce Household Waste
 Reduction Per Annum in the Quantity of Household Waste Generated Over the Period of the Plan.
- Recycle More Increase the Reuse and Recycling Rate of Municipal Waste to 50% by 2020.
- Less to Landfill
 Reduce to 0% the direct disposal of unprocessed residual Municipal waste to Landfill from 2016 onwards

The Civic Waste Facility ensures that material which can be reused, recovered and recycled is not disposed of at landfill and/or incinerator. All the materials, collected, sorted, baled and in containers at the site are sent to facilities which reuse and recycle the materials and thus prevent the disposal of materials.

1.21 Describe how best available techniques (BAT) that will be used to prevent or eliminate or, where that is not practicable, to limit, abate or reduce an emission from the activity concerned

1.21.1 Best available techniques for landfill activities

Louth County Council will employ BAT to limit, abate or reduce an expission from the activity concerned where applicable. As previously stated the site is unlined but has been restored with an engineered cap and landfill gas extraction system. Specified Engineering Works were submitted for agreement to EPA for all works taken to date. For those processes and emissions as per current waste licence are as follows:

1.21.1.1 Process Gas Emissions

In accordance with BAT Guidance Notes for the Waste Sector: Landfill Activities for emissions to air is to:

- Pre-treat waste to remove/reduce biodegradables.
- Selection of appropriate cell sizes.
- Maintenance of negative air pressure in the landfill gas extraction wells.
- Use of horizontal and vertical gas extraction wells.
- Use of appropriate materials for temporary cover, interim and final capping.
- Regular monitoring of landfill extraction well field, balancing of wells and elimination of non-design condensate traps.
- Use of horizontal landfill gas collection pipework at the top of the side wall riser (beneath cap).
- Provide landfill gas management systems,
- Control the combustion conditions of enclosed flares, in terms of the carbon monoxide concentration, temperature and retention time by ensuring that combustion occurs at 1,000°C with a product retention time of 0.3 seconds within the combustion zone.

Drogheda Landfill Site opened in 1983 and has ceased accepting waste for disposal at the landfill since the waste licence was granted on 30th December 1999. During the restoration and capping an active landfill collection and flaring system was installed at the facility in 2006. This consists of a network of vertical gas

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⁷ Eastern-Midlands Region Waste Management Plan 2015-2021

wells. The wells are connected via 63mm diameter pipework to a 250mm diameter main gas collection pipe. The gas wells are connected to this flare through a system of connecting pipework and manifolds (to allow better maintenance and to reduce the number of control points on the landfill site). Self-dewatering well heads are used with wells where the connecting pipework falls towards the well.

A 750m³ enclosed flare unit located in an enclosed compound adjacent to the site office and Supervisory Control and Data Acquisition (SCADA) system was originally installed in 2005. Landfill gas production within the landfill waste body has depleted since waste filling ceased in 1999 and therefore the 750m³/hr flare was replaced with a 150m³/hr low calorific high temperature flare with a combustion chamber temperature of between 1000 and 1100°C, minimum residence time of 0.3 seconds and operating range for methane of 12% to 35% in August 2020.

1.21.1.2 Discharges To Water

1.21.1.2.1 Discharges to Surface Water

The following is BAT for discharges to surface water:

- Only roof-water and water from undisturbed unpaved areas (not in landfill footprint and not used for the handling or storage of waste) are appropriate for direct discharge to surface waters.
- No untreated trade effluent shall be discharged direct to surface water.
- Other surface water discharges must as a minimum be passed through an interceptor (I.S. EN 858-2:2003
 Part 2), or in the case of construction areas where solids can build up in storm water runoff, they may be
 discharged through settlement lagoons or reed bed systems.
- The provision of infrastructure to allow for isolation and monitoring of surface water discharges.
- The management and control techniques listed in Section 4.4.4.

Surface Water Drainage Pipework was installed in the capping layer of the landfill site. The capping layers were laid to ensure sufficient falls to a network of drainage channels around the perimeter of the site. These channels consist of 250mm diameter perforated corrugated polyethylene pipes laid within trenches and backfilled with drainage stone. Surface water flows to one of two concrete silt interceptors which discharges surface water collected from capped areas into the quarry lake (SW4 and SW5).

Surface water from the Civic Waste Facility's collected on site from access roads and recycling hardstanding areas via drainage infrastructure including road gullies and precast concrete drainage channels. Water is carried in twin wall PE pipes through precast concrete inspection chambers to a full retention interceptor within the car parking area to the south side of the site. Surface water is subsequently stored within a storm water retention tank of capacity 250m³. The storm water is in turn pumped from the storm water tank to a storm water discharge chamber 400m to the south of the site.

1.21.1.2.2 Discharges to Sewer

The following is BAT for discharges to sewer:

• Final effluent quality must meet standards set by the receiving Water Services Authority, to adequately treat the wastewaters it receives, or the Agency. The Agency may apply more stringent ELVs than those suggested by the Water Services Authority if it so considers. The Urban Wastewater Treatment Regulations specify discharge quality parameters to prevent significant discharges of harmful substances.

There are currently two discharge points to sewer in the current waste licence. Sewage from the Civic Waste Facility collected within PE pipes and discharged to a foul water precast concrete pumping station. The sewage is in turn pumped via pumping main to a foul drainage discharge chamber 400m to the south of the site at the junction of the Mell Rd and Cement Rd.

Treated condensate from the methane stripper was previously discharged to sewer. Condensate from the methane stripper is currently tankered from site following agreement with EPA and Waste Water Treatment Plant Operator. Emission Limit Values have been set in the current waste licence as per Table 1.13.

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Table 1.13: Emission Limit Values for Emissions to Sewer8

Parameter Emission Limit Value	Grab Sample mg/l ELV (1) Civic Waste Facility	Grab Sample mg/l ELV (2) Closed Landfill Facility
BOD	335	1770
COD	450	8000
Ammoniacal Nitrogen NH4-N	35	2040
Suspended Solids	294	1500
Sulphates (as SO4)	240	322
pH	6 – 9	6 – 9
Temperature	32°C	32°C

1.22 Describe how energy will be used efficiently in the carrying on of the activity

No fuels or energy production is applicable to this facility apart from two vehicles which are used for movement and loading of material. Operation of general office areas, balery conveyor, compacter and enclosed landfill gas flare is via a standard electrical connection. No energy is produced as a byproduct or final end product.

1.22.1 Energy Usage and Management

Energy usage on the site would apply to the following – lighting of offices, lighting of storage areas, canteen, toilets, computer, conveyor belt and baler.

In order to reduce energy usage staff are instructed to keep lights off when not in use, appliances off when not in use and baler/conveyor off when not in use. Light fittings use energy saving fluorescent tubes and the facility proposes to switch to LED lights on a phased basis as required during maintenance.

Heating of offices and canteens is by the use of electrical storage heaters which make use of the favorable night time rate.

There is no gas-fired or air-fired heating system in use and therefore no oil or fuel storage on site.

The management of the site review their energy supplier every 2 to 3 years to ensure maximum benefit. All office areas, canteen facilities and staff areas are insulated to ensure maximum heat retention. All windows onsite are double glazed. The electrical usage for the facility in 2020 was 29,170 Kwh for civic amenity site and the enclosed landfill gas flare.

There are two diesel operated vehicles on site (i) Forklift (ii) Teleporter. These vehicles are serviced on a regular basis to ensure maximum fuel efficiency.

1.23 Describe how any noise from the activity concerned will comply with, or will not result in the contravention of, any regulations under section 106 of the EPA Act as amended.

Noise monitoring is currently being undertaken as listed in Waste Licence W0033-01(Table 1.14) and monitoring locations are shown in Drawing IBR1237/103A Monitoring Locations in Appendix A. A noise survey

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⁸ Waste Licence W0033-01 Schedule F.5 Sewer and G.4 Emissions to Sewer

was completed on Thursday 5th of March 2020 to collect measurement results at 3 no. Noise Sensitive Locations (NSLs) to show compliance with the NG4 guideline^{9.} The survey found traffic to be the predominant source of noise at all locations. Reduced traffic noise levels during the night-time measuring period provides a more accurate representation of background noise against which any potential noise levels arising from the site activities could be compared. The findings show that during the night-time measurements and during lulls in traffic noise there was no noise audible from the landfill site. Hence it is considered to be in compliance with NG4 and the requirements of Waste Licence W0033 and will not result in the contravention of, any regulations under section 106 of the EPA Act as amended. The 2020 noise survey is included in Appendix D.

Table 1.14: Noise Monitoring at Drogheda Landfill Site¹⁰

Location	Monitoring Frequency	Parameter	Emission Limits
NSL 1	Daytime:	L(A)EQ [30 minutes]	Day dB(A) LAeq(30 minutes) 55
		L(A)10 [30 minutes]	Night dB(A) LAeq(30 minutes) 45
NSL 2	Evening time:	L(A) 90 [30 minutes]	
		Frequency Analysis(1/3 Octave band	
NSL 3	Night time:	analysis)	



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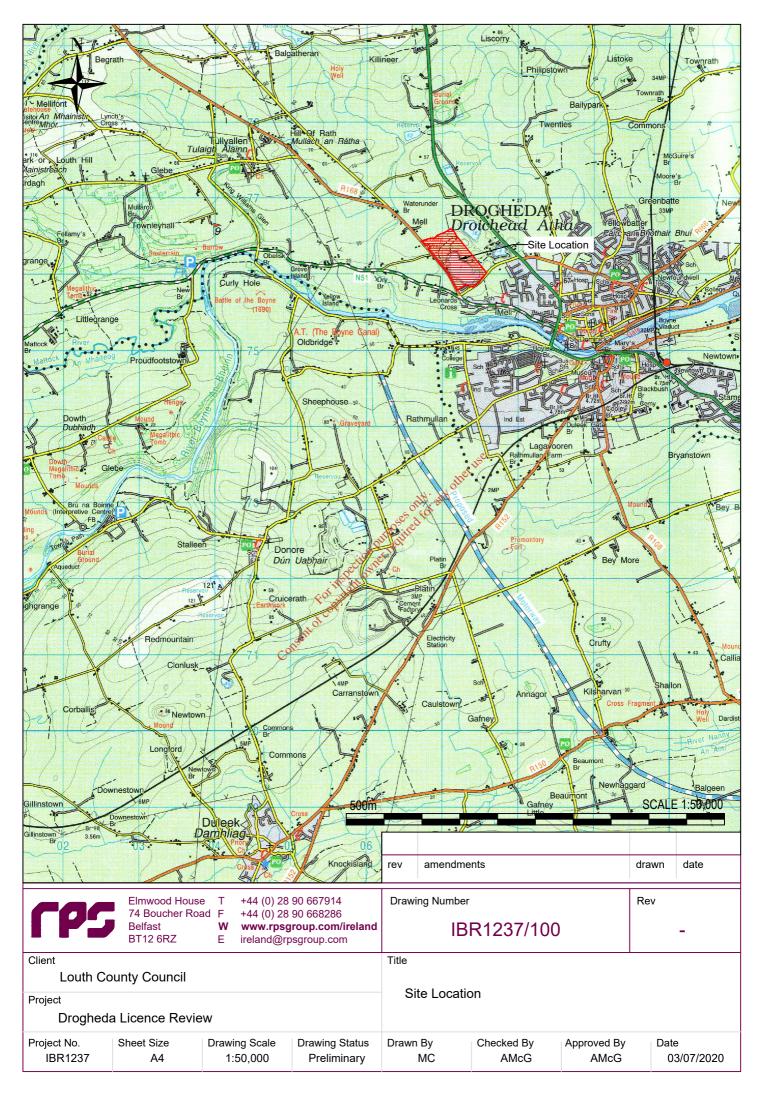
⁹ Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4) 2016.

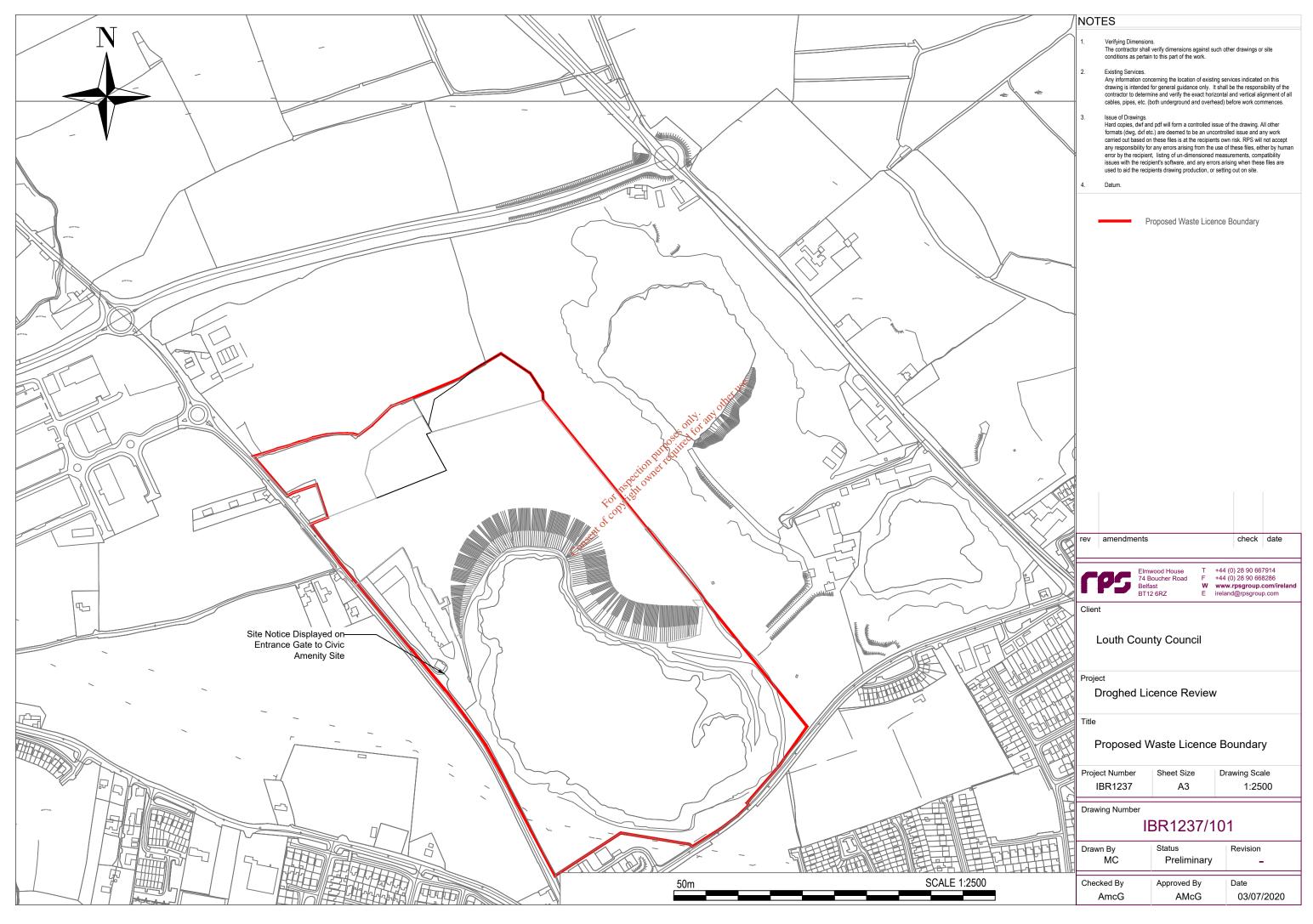
¹⁰ Waste Licence W0033-01 Schedule F.3 Noise and G.1 Noise Emissions

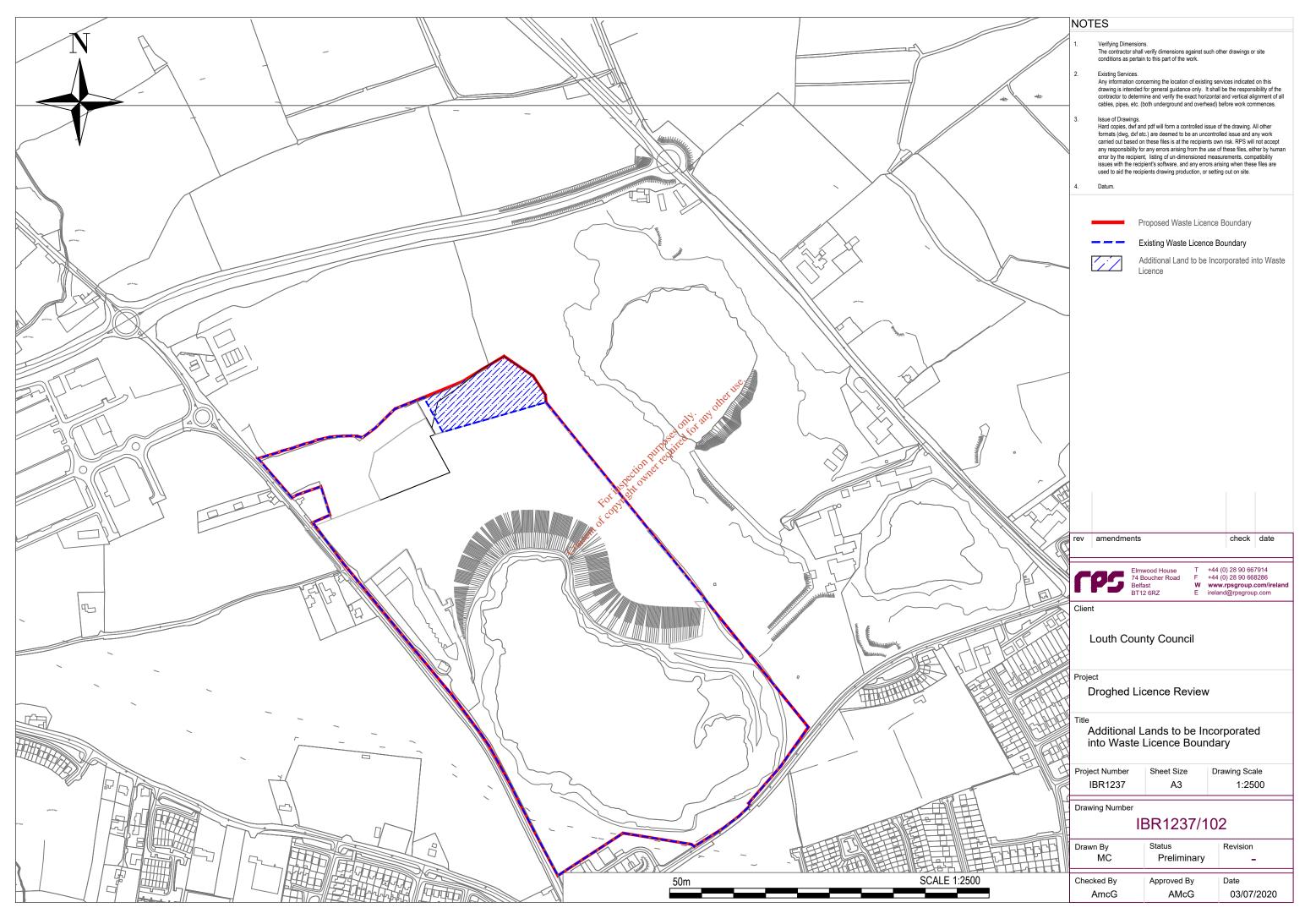
Appendix A Drawings

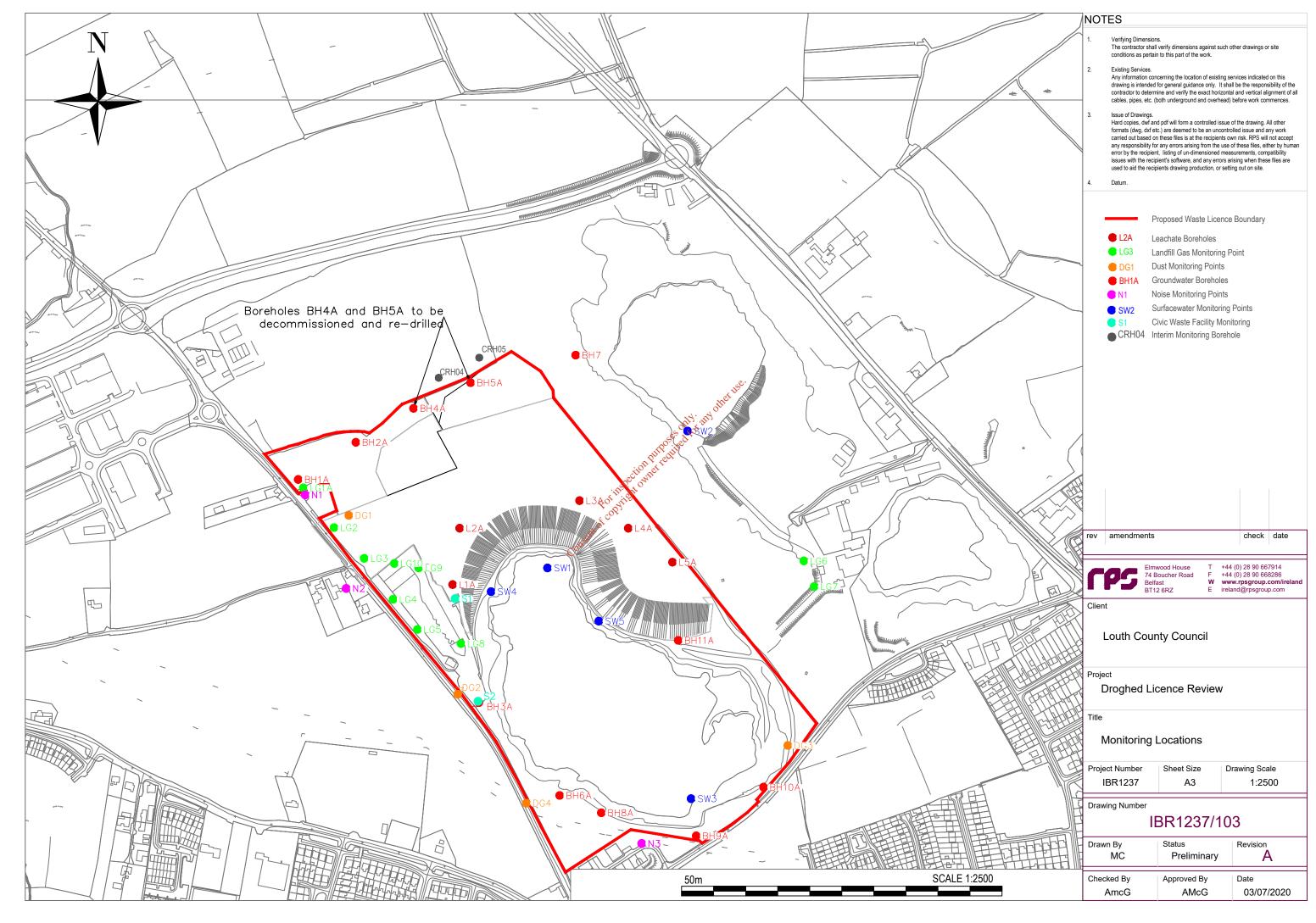
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Appendix B Landfill Gas Management Procedure

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Gas balancing and fire prevention

The gas balancing and flare procedure is as follows;

Gas balancing

This is carried out by the landfill manager in conjunction with the operator on-site on a minimum of a quarterly basis or when required. The wells are balanced in order to optimise the quantity of methane and oxygen for the flare to operate. The gas balancing is carried out in accordance with documented procedure L-WR-OCP-022-03

In the case where the flare shuts down due to gas levels, breakdown, pipe off, maintenance and/or suction pressure, a text alert system is set up to inform the contractor for the engines and three staff members of Louth County Council. The council will attempt flare restart and in other cases contractor may attend the site. Louth County Council liaises with the contractor on this. If the flare is not restarted in a timely manner an incident is logged on Eden. The landfill will be inspected in certain instances to balance gas levels suitable for a flare restart. Pipe work, well heads on manifolds will be checked as appropriate to determine that there are no leaks and/or broken pipes which may impact oxygen levels. Knock out pots and condensate interceptors are inspected on a regular basis to ensure condensate does not build up and impact gas quality and suction pressure. Where appropriate the gas field will be balanced and the Council staff will liaise with flare contractor in order to restart flare.

Gas Balance							
Document No. L-WR-OCP-022-03 Issued by: S. Callaghan							
	Approved by: J O'Hagan						
Issue Date: 03/07/2018 Revision No. 2							

Gas Well Balancing Procedure

Scope: To put in place a system to optimise gas extraction from each gas well

Purpose: To set out the necessary steps to balance the gas wells

Responsibility: Landfill manager / Deputy Landfill Manager

Procedure:

1. Steps to balance gas wells

Part Balancing Using Manifolds Only

Using GA 2000 landfill gas meter or GEM 5000

- First monitor the main gas line at the inlet to the flare
- Then monitor the 6 gas manifolds

Based on these monitoring results i.e. suction pressures, methane concentration and oxygen concentrations a targeted approach can be taken to increasing suction on certain wells.

All manifolds should have at least -10mbar of suction on them. If not this must be investigated. Condensate in the gas lines could be blocking the suction. If the suction is varying up and down by a few millibar this is the most likely cause.

If the oxygen level at the flare is close to 5% then each manifold should be tested to see which area of the site the high oxygen is coming from. Once the area has been identified each well in that area should be tested.

Full balancing - At gas wellheads

Using the GA 2000 or GEM 5000 landfill gas meter monitor each gas well at its wellhead. All gas wells should have negative pressure and low oxygen levels.

Each gas well head shall be monitored at least quarterly or more regularly if manifold monitoring indicates issues in a certain area.

Action levels for landfill gases are;

Gas	High Level	Low Level	Comment
Methane	60%	25%	>60% indicates not enough suction. <25% indicates too much suction or poor capping.

Oxygen	>5%	n/a		Ideally <5% oxygen but in some cases in uncapped areas poor quality gas i.e. 8% oxygen gas can be blended into the main, as long as it does not increase the oxygen at the flare to >5%.
Carbon Dioxide	>40%	n/a		Indicator only
Suction	> -20 mbar	Any pressure	positive	Positive pressure indicates gas build up

The valve at each well head should be adjusted slightly up or down depending on the suction pressure and methane and oxygen levels.

If there is no suction the pipe work may be blocked with condensation.

If the suction is varying up and down by a few millibar this is due to condensate in the gas line. The gas line should be traced back to determine where the condensate is High oxygen levels indicate poor capping or preaks in pipe work.

Table 1: List of Manifolds
6 in total

Consent of Conse accumulating and the falls on the line should be repaired to ensure no condensate builds

Appendix CFlare Emissions Report



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Visit No: 2
Year: 2020
Licence Holder: Louth County Council, F1
Facility Location: Drogheda Landfill
Rev.No: 1



Report Title	Air Emissions Compliance Monitoring Emissions Report				
Company address	Air Scientific Ltd., 32 DeGranville Court, Dublin road,				
Company address	Trim, Co. Meath				
Stack Emissions Testing Report Commissioned by	AFS				
Facility Name	Drogheda Landfill				
Contact Person	तुर्धि का ^{र्ये} Steve Willacy				
EPA Licence Number	WL0034-02				
Licence Holder	Louth County Council, F1				
Stack Reference Number	dr _{ret} F1				
Dates of the Monitoring Campaign	30/09/2020				
Job Reference Number	DRLATL1300920 / 20201162 Amanda Sheridan				
Report Approved by	Dr. Brian Sheridan				
Stack Testing Team	Dr. John Casey				
Report Date	09/10/2020				
Report Type	Test Report Compliance Monitoring				
Version	1				
Signature of Approver	Brian Sheridan Technical Manager				

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02 Licence Holder: Louth County Council, F1 Facility Location: Drogheda Landfill

Rev.No: 1

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Licence Holder: Louth County Council, F1 Visit No: 2 Year: 2020 Facility Location: Drogheda Landfill Office: Trim

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1. Executive Summary

I. Monitoring Objectives

Overall Aim of the monitoring Campaign

The aim of the monitoring campaign was to demonstrate compliance with a set of emission limit values as specified in the site licence.

Special Requirements

There were no special requirements.

Target Parameters

Carbon Monoxide (CO)
Oxides of Nitrogen (NOx) as NO ₂
Sulphur Dioxide (SO ₂)
Stack Gas Temperature of
Volume (m³ k²²)
Oxygen (Qa)
Carbon Dioxide (CO ₂)
. 020 x 02

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Emission Limit Values

Emission Limit Values / Mass Emissions Limit Values	mg.m ⁻³	kg.h ⁻¹
СО	50	-
NOx as NO ₂	150	-
SO ₂		-
Stack Gas Temperature	-	-
Volume (m ³ .h ⁻¹)	-	-

Reference Conditions

Reference Condition	Value
Oxygen Reference %	3 %.
Temperature K	273,95
Total Pressure kPa	33' at 101.3
Moisture Correction	es of tot Yes
Total Pressure kPa Moisture Correction Rod itspection with the converted to the converted	, ecc

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Executive Summary

Overall Results

	Concentr ation						Mass Emission		Run 1						
Parameter	Units	Result	MU +/-	Blanks	Limit	Compli ant	Units	Result	Limit	Dates	Time on	Time off	O2 Ref. (%)	Accredit ation	LOD
CO EN15058:2017	mg.m ⁻³	5.02	3.1	-	50	N/A	kg.h ⁻¹	-	-	30/09/2020	13:05:00	13:38:00	3	Yes	<1.7
NOx EN14792:2017	mg.m ⁻³	44.02	4.06	-	150	N/A	kg.h ⁻¹	-	-	30/09/2020	13:05:00	13:38:00	3	Yes	<1.8
SO ₂ CEN/TS 17021:2017	mg.m ⁻³	<6.1	3.52	-	-	N/A	kg.h ⁻¹	•	-	30/09/2020	13:05:00	13:38:00	3	Yes	<6.1
Oxygen (%) EN14789:2017	% v/v	9.86	0.16	-	-	N/A	-	-	-	30/09/2020	13:05:00	13:38:00	3	Yes	-
CO ₂ ISO12039:2001	% v/v	9.47	0.32	-	-	N/A	-	-	-	30/09/2020	13:05:00	13:38:00	3	Yes	-
Stack Gas Temperature	K	1306.15	-	-	-	N/A	-	•	-	30/09/2020	12:50:00	12:55:00	3	Yes	-
Stack Gas Velocity EN16911:2013	m.s ⁻¹	-	-	-	-	N/A	-	-	-	30/09/2020	12:50:00	12:55:00	3	No	-
Volumetric Flow Rate	m ³ .h ⁻¹	-	-	-	-	N/A	-	1	-	-	-	1	3	No	-
Volumetric Flow Rate (Ref)	m ³ .h ⁻¹	-	-	-	-	N/A	-	-	-	-	-	ı	3	N/A	-

Accreditation details

Air Scientific Limited	INAB319T
External Analytical Laboratory	-
Other	-



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Executive Summary

Monitoring Dates & Times

Parameter	Run	Location ID	Sampling Dates	Sampling Time On	Sampling Time Off	Duration (mins.)
	Run 1	F1	30/09/2020	13:05:00	13:38:00	00:33:00
Carbon Monoxide (CO)	Run 2	-	=	-	=	-
Monoxido (GG)	Run 3	-	=	-	=	-
Oxides of	Run 1	F1	30/09/2020	13:05:00	13:38:00	00:33:00
Nitrogen (NOx)	Run 2	-	-	-	-	-
as NO ₂	Run 3	-	=	-	=	-
0 1 1 5: :1	Run 1	F1	30/09/2020	13:05:00	13:38:00	00:33:00
Sulphur Dioxide (SO ₂)	Run 2	-	-	-	-	-
(= = 2)	Run 3	-	-	-	-	-
	Run 1	F1	30/09/2020	13:05:00	. 13:38:00	00:33:00
Oxygen (%)	Run 2	-	-	- her it	-	-
	Run 3	-	-	14. 27 op	-	-
Stack Gas Temperature		F1	30/09/2020	2:50:00	12:55:00	00:05:00
Stack Gas Velocity		F1	30/09/2020	Auredit 12:50:00	12:55:00	00:05:00
	Run 1	F1	30/09/2020	13:05:00	13:38:00	00:33:00
Carbon Dioxide (%)	Run 2	-	For Wigh	-	-	-
(70)	Run 3	-	- £ cos,	-	=	-

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Executive Summary

Monitoring, Equipment & Analytical Methods

Parameter		Monitor	ing	Analys	is	
	Standard	Technical Procedure	Accredited Testing	Testing Lab	Analytical Technique	INAB Analysis
Carbon Monoxide (CO)	EN15058:2017	SOP 2004	Yes	AirSci	NCIR By Horiba PG-250	-
Oxides of Nitrogen (NOx)	EN14792:2017	SOP 2002	Yes	H. att AirSci	Chemiluminescence	-
Sulphur Dioxide (SO ₂)	CEN/TS 17021:2017	SOP 2046	Yes 🧽	AirSci	NDIR Absorption	-
Oxygen (%)	EN14789:2017	SOP 2008	YestPolitics	AirSci	Paramagnetic	-
Carbon Dioxide	ISO12039:2001	SOP 2045	; of Yes ice	AirSci	NDIR	-
Stack Gas Temperature	EN16911:2013	SOP 2005	Sec o Yes	AirSci	Thermocouple	-
Stack Gas Velocity	EN16911:2013	SOP 2005	it ^Q No	AirSci	Pitot tubes	-

Document No.: DRLATL1300920 / 20201162 EPA Licen

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02 Licence Holder: Louth County Council, F1 Facility Location: Drogheda Landfill

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List of Equipment

ID	Item of Equipment	Manufacturer	Serial No.
ASLTM12EQ503	SKC Aircheck Sampler SKC 4	SKC	826925
ASLTM12EQ512	Horiba PG2500 Portable Gas Analzer	Horiba	41343020031
ASLTM12EQ526	Knob weights (200,500,1000mg)	,∜KERN & Sohn GmbH	G1117388
ASLTM13EQ509	10 metre industrial heated sample line	o ^{ther} Neptech	13B088
ASLTM14EQ514	Mass flow meter	Siargo	A3J04316
ASLTM15EQ507	Buhler Sample Gas Cooler	Buhler Technologies	70000471
ASLTM15EQ508	My weigh ibalance i1200 mtg diff	My Weigh	7.256.358
ASLTM19EQ502	K type thermocouple	TC Direct	N/A
ASLTM18EQ509	Bios Defender	Bios	N/A

Visit No: 2Licence Holder: Louth County Council, F1Year: 2020Facility Location: Drogheda Landfill

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Sampling Deviations

Parameter	Deviation
Standard ID	-

Reference Documents

Risk Assessment (RA)	SOP1011
Site Review (SR)	SOP1015
Site Specific Protocol (SSP)	SOP1015

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Executive Summary

Suitability of sampling location

General Information	Value
Permanent/Temporary	Permenant
Inside/ Outside	Outside

Platform Details		
Irish EPA Technical Guidance Note AG1 / BS EN 15259 Platform Requirements	Value	Comment
Sufficient Working area to manipulate probe and measuring instruments	Yes	-
Platform has 2 handrails (approx. 0.5m & 1.0 m high)	Yes	-
Platform has vertical base boards (approx. 0.25 m high)	Yes	-
Platform has chains / self closing gates at top of ladders	Yes	-
There are no obstructions present which hamper insertion of sampling equipment	No	-
Safe Access Available	Yes	-
Easy Access Available	o th Yes	-

Sampling Location / Platform Improvement Recommendations

None

BSEN 15259 Homogeneity Test Requirements

1: There is no requirement to perform a BSEN15259 Homogenity Test on this stack

Process details

Parameter	
Process status	Normal
Capacity (per/hour) (if applicable)	88m3/hr
Continuous or Batch Process	Continuous
Feedstock	LFG
Abatement System	No
Abatement Systems Running Status	N/A
Fuel	N/A
Plume Appearance	Yes
Other information	None

Visit No: 2
Year: 2020
Licence Holder: Louth County Council, F1
Facility Location: Drogheda Landfill
Rev.No: 1

The process information below has been supplied by the client and as such ASL assume no responsibility or liability for any errors or omissions in the content of this Process Detail Form. The information provided in this form is provided on an 'as is' basis with no guarantees of completeness, accuracy or reliability.

	Licensee		
Reg. number	WL0034-02	Contractor	Air Scientific Ltd.
Site Contact	Steve Willacy	Contractor's contact	Amanda Sheridan
Role		Role	-
Signature		Signature	-

Emissions point					-			
Type of process		Load of process Abatement system			List of Solvents used per process			
Rotogravure Printing	-		Bag filter	1	.Ø.•	-	-	
Cement Plant	-		Electrostatic precipitato	-	ner 118	-	-	
Electrical generation	-		Cyclone	م - نحم	4 off.	-	-	
Steam boiler	-		Thermal oxidiser	804. 97	-	-	-	
Other	Yes		Active carbon bed	? <u>,</u>	-	-	-	
			NSCROLLECT	-	-	-	-	
		As normal	SCRITC	-	-	-	-	
			Dry scrubber	-	-	-	-	
			Wet scrubber	-	-	-	-	
			Lime injection	-	-	-	-	
		College	Biofilter	-	-	-	-	
			None	Yes	-	-	-	
			Other:	-	-	-	-	

Visit No: 2
Year: 2020
Concil, F1
Facility Location: Drogheda Landfill
Rev.No: 1

Executive Summary

Stack diagram



Visit No: 2
Year: 2020
Licence Holder: Louth County Council, F1
Facility Location: Drogheda Landfill
Rev.No: 1

2. APPENDICES

II. Appendix I - Monitoring Personnel & Equipment

Stack Emissions Monitoring Personnel

Team Leader	Name	Dr. John Casey			
	Qualifications	PhD. (Eng.), MSc. (Agr.), B. Agr. Sc.			
	System approval Air Scientific Limited Approved				
		-			
Team Leader	Name	-			
	Qualifications	-			
	System approval	-			
		- 0:			

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Visit No: 2

Year: 2020

Facility Location: Drogheda Landfill

Office: Trim Rev.No: 1

III. Appendix II - Stack Details & flow characteristics

Preliminary stack survey calculations

General Stack Details		
Stack details	Units	Value
Date of survey		30/09/2020
Time of survey		12:50
Туре		Circular
Stack Diameter / Depth, D	m	-
Stack Width, W	m	-
Average Stack Gas Temp., Ta	С	1033
Average Static Pressure, P static	kPa	0.1
Average Barometric Pressure, Pb	kPa	100.9
Type of Pitot		a. Vote
Are Water Droplets Present?	ے د	CO. 104
Average Pitot Tube Calibration Coeff, Cp	n pingosos	<u>-</u>
Negative flow	an Pility Clien	-
Highly homogeneous flow stream/gas velocity	ectionie	Yes
	insection in the state of the s	
Sample Port Size	Mm mm	25
Initial Pitot Leak Check	Pa	-
Final Pitot Leak Check	Pa	-
Orientation of Duct		Vertical
Pitot Tube Cp		0.998
Number of Lines Available		1
Number of Lines Used		1

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02

Licence Holder: Louth County Council, F1

Facility Location: Drogheda Landfill

Sampling Line A Point	Distance to duct (m)	Pa	Temp °C	Velocity (m/s)	Oxygen (%)	Angle of Swirl
POIIIL	Distance to duct (III)	га	Temp C	velocity (III/s)	Oxygen (%)	Angle of Swift
1	-	=	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	જુ	-	-
5	-	-	-	net	-	-
6	-	-	- 34. 45	-	-	-
7	-	-	- es of for all	-	-	-
8	-	-	-utpostited	-	-	-
9	-	-	ion Price	-	-	-
10	-	-	agect own	-	-	-
Average	-	-	an itight	-	-	-
Min	-	-	Colly -	-	-	-
Max	-	-	-	-	-	-

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02

Licence Holder: Louth County Council, F1

Facility Location: Drogheda Landfill Rev.No: 1

Sampling Line B			_			
Point	Distance to duct (m)	Pa	Temp °C	Velocity (m/s)	Oxygen (%)	Angle of Swirl
1	-	-	-	-	-	-
2	-	=	-	-	=	-
3	-	-	-	-	-	-
4	-	-	-	<u>ي</u> و	-	-
5	-	-	-	net -	-	-
6	-	-	- 24. 4	- -	-	-
7	-	-	- es of for all	-	-	-
8	-	-	-1720 litel	-	-	-
9	-	-	ion greek	-	-	-
10	-	-	epect owne	-	-	-
Average	-	-	COT IT TO THE	-	-	-
Min	-	-	- CODY -	-	-	-
Max	-	-		-	-	-

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02
Licence Holder: Louth County Council, F1
Facility Location: Drogheda Landfill

Component	Conc. ppm	Conc. Dry % v/v	Conc. Wet % v/v	Molar Mass
Carbon Dioxide CO ₂	-	9.4	-	44.01
Oxygen O ₂	-	9.8	-	32
Nitrogen N ₂	-	80.8	-	28.1
Moisture (H ₂ O)	-	-	10.4	18.02
			iteil	
Reference Conditions	Units	Numbers 💥 🕉	0°	
Temperature	°C	273.15 es of for		
Total Pressure	kPa	101.80 direct		
Moisture	%	ion of red		
Oxygen (Dry)	%	Decreasing.		

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02 Licence Holder: Louth County Council, F1 Facility Location: Drogheda Landfill

Stack Gas Composition & Molecular Weights								
Component	Molar Mass M	Density Kg/m³ p	Conc. Dry % v/v	Dry Volume Fraction r	Dry Conc. kg/m³ pi	Conc. wet % v/v	Wet Volume Fraction r	Wet Conc. kg/m³ pi
Carbon Dioxide CO ₂	44.01	1.96	9.4	0.094	0.18	8.42	0.08	0.17
Oxygen O ₂	32	1.43	9.8	0.098	15 ⁶⁰ 0.14	8.78	0.09	0.13
Nitrogen N ₂	28.1	1.25	80.8	0.808	other 1.01	72.4	0.72	0.91
Moisture (H ₂ O)	18.02	0.8	-	- ally all	-	10.4	0.1	0.08
	,			Oses dio.				
where p=M/22.41				Dury Chil				
$pi = r \times p$				citotheris				

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02 Licence Holder: Louth County Council, F1 Facility Location: Drogheda Landfill

Calculation of Stack Gas Densities		
Determinant	Units	Result
Dry Density (STP), P STD	kg.m ⁻³	1.338
Wet Density (STP), P STW	kg.m ⁻³	1.287
Dry Density (Actual), P Actual	kg.m ⁻³	0.279
Average wet Density (Actual), P Actual W	kg.m ⁻³	0.268
the of the state o		
Where		
P STD = sum of component concentrations, kg/m³ (excluding water vapour)		
P STW = (P STD + pi of H2O) / (1 + (pi of H2O / 0.8036))		
P actual = P STD x (T STP / (P STP)) x (Pa / Tax		
P actual W (at each sampling point) = P STW x (Ts / Rs) x (Pa / Ta)		_

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02 Licence Holder: Louth County Council, F1 Facility Location: Drogheda Landfill

Sampling Plane Validation Criteria	Value	Units	Requirement	Compliance	Method
Lowest Differential Pressure	-	Pa	>5 Pa	N/A	EN16911:2013
Lowest Gas Velocity	-	m/s	-	N/A	-
Highest Gas Velocity	-	m/s	-	N/A	-
Ratio of Above	-	:1	<3:1 يعنى	N/A	EN16911:2013
Mean Velocity	-	m/s	- Heid	N/A	-
Angle of flow with regard to duct axis	-	degrees	< 15. 27	N/A	EN16911:2013
No local negative flow	-	-	es of tot &	N/A	-
Homogeneous flow stream/gas velocity	-	-	att ⁰³ uired	N/A	-

Calculation of stack Gas Velocity, V	
Velocity at Traverse Point, V = Kcp * Sqroot ((2 * DP) / Density)	-
S COT	
Where	
Kpt = Pitot tube calibration coefficient	-
Compressibility correction factor, assumed at a constant 0.998	0.998

Gas Volumetric Flowrate	Units	Result
Gas Volumetric Flow Rate (Actual)	m3.h ⁻¹	-
Gas Volumetric Flow Rate (STP, Wet)	m3.h ⁻¹	-
Gas Volumetric Flowrate (STP, Dry)	m3.h ⁻¹	-
Gas Volumetric Flowrate REF to Oxygen	m3.h ⁻¹	-

Standard uncertainty of velocity (m/s)	-	Expanded uncertainty of velocity (m/s)	-	Volume flow rate expanded uncertainty (m ³ /hr)	-	
--	---	--	---	--	---	--

Visit No: 2

Year: 2020

Coffice: Trim

Licence Holder: Louth County Council, F1

Facility Location: Drogheda Landfill

Rev.No: 1

IV. Appendix 3 - Individual parameter sampling details and results

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Visit No: 2 Licence Holder: Louth County Council, F1
Year: 2020 Facility Location: Drogheda Landfill
Office: Trim Rev.No: 1

Carbon Monoxide Quality Assurance

Sampling Details				
Stack ID	F1			
		-		
Parameter	Units	Run 1	Run 2	Run 3
Sampling Times	-	13:05	-	-
Sampling Dates	-	30/09/2020	-	-
Instrument Range	ppm	200	-	-
Span Gas Value	ppm	159.8	-	-
Acceptable Gas Range	-	Y	-	-
		-		
Quality Assurance	Units	Run 1	Run 2	Run 3
Conditioning Unit Temperature	°C	2	. -	-
Average Temperature	< °C	2 Algherit	-	-
Allowable Temperature	-	14. A) Ob	-	-
Temperature Acceptable	-	s of or Y	-	-
Pump flow rate	l/min	ited 0.4	-	-
	: On Prize			
Zero Drift	Units no	Run 1	Run 2	Run 3
Zero Down Sampling Line (Pre)	or it pom	0.1	-	-
Zero Down Sampling Line (Post)	ppm	0.1	-	-
Zero Drift	ppm	0	-	-
Allowable Zero Drift (5%)	ppm	7.99	-	-
Zero Drift Acceptable	Y <2%/Y 2-5%/N>5%	Y <2%	-	-
Zero Drift	%	0	-	-
Span Drift	Units	Run 1	Run 2	Run 3
Span Down Sampling Line (Pre)	ppm	159.8	-	-
Span Down Sampling Line (Post)	ppm	159.7	-	-
Span Drift	ppm	0.1	-	-
Allowable Span Drift (5%)	ppm	7.99	-	-
Span Drift Acceptable (Y/N)	Y <2%/Y 2-5%/N>5%	Y <2%	-	-
Span Drift	%	0.06	-	-
Leak Check	Units	Run 1	Run 2	Run 3
Span Gas Conc.	ppm	159.8	-	-
Recorded Conc. down Line	ppm	159.8	-	-
Leak check acceptable (< 2%)	(Y/N)	Y <2%	=	=
		•		
Test Conditions	Units	Run 1	Run 2	Run 3
Run Ambient Temperature Range	°C	10	-	-

Visit No: 2
Year: 2020
Licence Holder: Louth County Council, F1
Facility Location: Drogheda Landfill
Rev.No: 1

Carbon Monoxide Results & Sampling Details

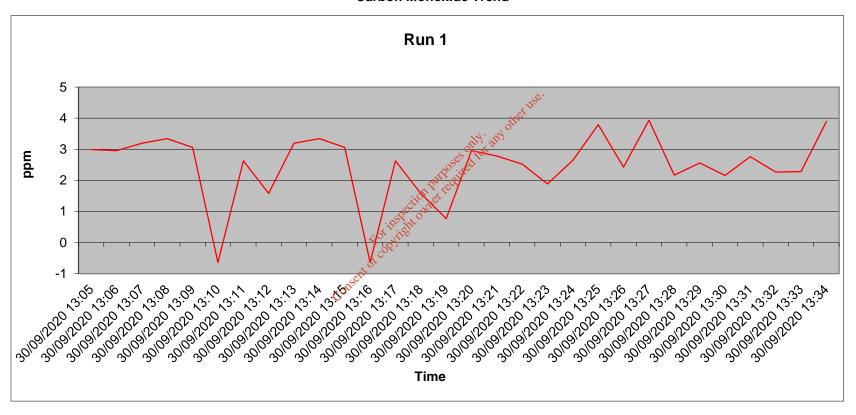
Parameter	Units	Run 1	Run 2	Run 3	Mean
Concentration	mg.m ⁻³	3.09	-	-	-
Uncertainty	mg.m ⁻³	3.1	-	-	-
Mass Emission	kg.h ⁻¹	-	-	-	-

General Sampling Information	
Parameter	Value
Standard	EN15058
Technical Procedure	SOP2004
	ise.
Probe material	on PTFE
Filtration Type/Size	PTFE
Heated Head Filter Used	Yes
Heated Line Temperature and little	180
ion Produ	
Span Gas Reference Number	ASLTM18ING513
Span Gas Expiry Date	22-Dec
Span Gas Start Pressure (bar)	20
Gas Cylinder Concentration (ppm)	159.8
Span Gas Uncertainty (%)	<2
Zero Gas Type	N
Number of Sampling Lines Used	1
Number of Sampling Points Used	1
Sample Point I.D's	F1
Reference Conditions	
Temperature (K)	273.15
Pressure (kPa)	101.3
Gas (Wet or Dry)	Dry
Oxygen	3

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02 Licence Holder: Louth County Council, F1 Facility Location: Drogheda Landfill

Rev.No: 1

Carbon Monoxide Trend



Visit No: 2
Year: 2020
Licence Holder: Louth County Council, F1
Facility Location: Drogheda Landfill
Rev.No: 1

Carbon Monoxide Measurement Uncertainty

Measured Quantities	Units	Run 1	Run 2	Run 3
Certified Range of Analyser	ppm	1.36-1000	-	-
Operational Range of Analyser	ppm	200	-	-
Measured Reading	ppm	2.48	-	-
		·		
Measured Quantities	Units	Run 1	Run 2	Run 3
Nonlinearity	%	0.9	-	-
Temperature Dependent Zero drift	%	0.14	-	-
Temperature Dependent Span drift	%	-0.12	=	-
Cross-sensitivity	%	0.08	-	-
Leak	%	0	-	-
Calibration Gas Uncertainty	%	<2	-	-
-		-	్థా.	
Parameter	Units	Run 1	Run 2	Run 3
Combined uncertainty	mg.m ⁻³	0.95.	-	-
Expanded uncertainty	mg.m ⁻³	25 P. Qot	-	-
		att ⁰ sited te		
Uncertainty corrected to std conds.	mg.m ⁻³	3.1	-	-
	Je ^c	Owne		
Expanded uncertainty expressed with a level of confidence of 95%	% of ELVitali	6.21	-	-
	mom ⁻³	3.1	-	-
Expanded uncertainty expressed with a level of confidence of 95%	alliann			
Expanded uncertainty expressed with a level of confidence of 95%	mg/m ³	ļ		

Visit No: 2
Year: 2020
Licence Holder: Louth County Council, F1
Facility Location: Drogheda Landfill
Rev.No: 1

Oxides of Nitrogen Quality Assurance

Sampling Details				
Stack ID	F1			
Parameter	Units	Run 1	Run 2	Run 3
Sampling Times	-	13:05	-	-
Sampling Dates	-	30/09/2020	-	-
Instrument Range	ppm	250	-	-
Span Gas Value	ppm	164.9	-	-
Acceptable Gas Range	-	Yes	-	-
Quality Assurance	Units	Run 1	Run 2	Run 3
Conditioning Unit Temperature	°C	2	<u>۔</u> -	-
Average Temperature	< ⁰ C	2 100	-	-
Allowable Temperature	-	14 ⁴ 23 06	=	-
Temperature Acceptable	-	25 Officer de	-	-
Pump flow rate	l/min	205 ited 0.4	-	-
	:0176	ied.		,
Zero Drift	Units will	Run 1	Run 2	Run 3
Zero Down Sampling Line (Pre)	or pour	0.1	-	-
Zero Down Sampling Line (Post)	Sppm	0.1	-	-
Zero Drift	ppm	0	-	-
Allowable Zero Drift (5%)	ppm	8.25	-	-
Zero Drift Acceptable	Y <2%/Y 2-5%/N>5%	Y <2%	-	-
Zero Drift	%	0	-	-
Span Drift	Units	Run 1	Run 2	Run 3
Span Down Sampling Line (Pre)	ppm	164.9	-	-
Span Down Sampling Line (Post)	ppm	164.9	-	-
Span Drift	ppm	0	-	-
Allowable Span Drift (5%)	ppm	8.25	-	-
Span Drift Acceptable (Y/N)	Y <2%/Y 2-5%/N>5%	Y <2%	-	-
Span Drift	%	0	-	-
Leak Check	Units	Run 1	Run 2	Run 3
Span Gas Conc.	ppm	164.9	-	-
Recorded Conc. down Line	ppm	164.9	=	-
Leak check acceptable (< 2%)	(Y/N)	Y <2%	-	-
Test Conditions	Units	Run 1	Run 2	Run 3
Run Ambient Temperature Range	°C	10	-	-

Visit No: 2 Licence Holder: Louth County Council, F1
Year: 2020 Facility Location: Drogheda Landfill
Office: Trim Rev.No: 1

Ovides of Nitragen Besults & Compline Details

Oxides of Nitrogen Results & Sampling Details

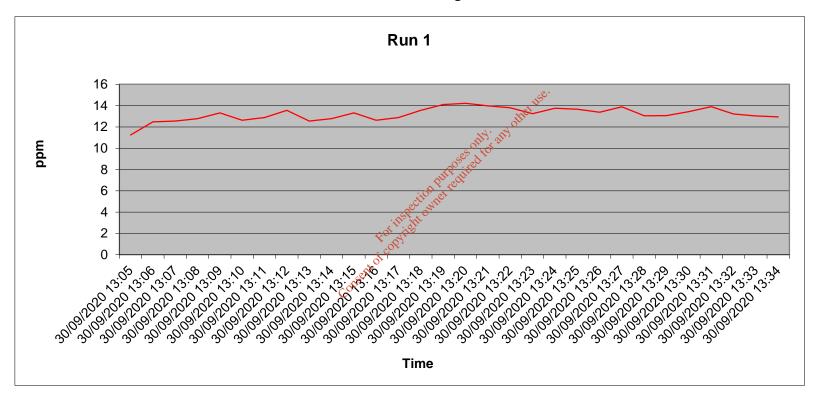
Parameter	Units	Run 1	Run 2	Run 3	Mean
Concentration	mg.m ⁻³	27.15	-	-	-
Uncertainty	mg.m ⁻³	4.06	-	-	-
Mass Emission	kg.h ⁻¹	-	-	-	-

General Sampling Information			
Parameter	Value		
Standard	EN14792		
Technical Procedure	SOP2002		
Teerineal Freedure	001 2002		
Probe material	SS		
Filtration Type/Size	PTFE		
Heated Head Filter Used	Yes		
Heated Line Temperature	net 180		
Date & Result of last converter check	3. 4 11/01/2020		
Span Gas Reference Number Span Gas Expiry Date	of for its		
Span Gas Reference Number	ASLTM19ING505		
Span Gas Expiry Date	20-Aug		
Span Gas Start Pressure (bar)	50		
Gas Cylinder Concentration (ppm)	164.9		
Span Gas Uncertainty (%)	<2		
Zero Gas Type	N		
College			
Number of Sampling Lines Used	1		
Number of Sampling Points Used	1		
Sample Point I.D's	F1		
Reference Conditions			
Temperature (K)	273.15		
Pressure (kPa)	101.3		
Gas (Wet or Dry)	Dry		
Oxygen	3		

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02 Licence Holder: Louth County Council, F1 Facility Location: Drogheda Landfill

Rev.No: 1

Oxides of Nitrogen Trend



Visit No: 2
Year: 2020
Licence Holder: Louth County Council, F1
Facility Location: Drogheda Landfill
Rev.No: 1

Oxides of Nitrogen Measurement Uncertainty

Measured Quantities	Units	Run 1	Run 2	Run 3
Certified Range of Analyser	ppm	0.87-1000	-	-
Operational Range of Analyser	ppm	250	-	-
Measured Reading	ppm	13.23	-	-
		т		
Measured Quantities	Units	Run 1	Run 2	Run 3
Nonlinearity	%	1.4	-	-
Temperature Dependent Zero drift	%	-0.04	-	-
Temperature Dependent Span drift	%	-0.25	-	-
Cross-sensitivity	%	0.5	-	-
Leak	%	0	-	-
Calibration Gas Uncertainty	%	<2	-	-
Mass Flow Controllers (Dilution) Uncertainty	%	<1	ی. -	-
NOx Converter Efficiency	%	95.4	-	-
		14. 04 or		
Parameter	Units	Run o	Run 2	Run 3
	2	.00°; 0 :91	_	_
Combined uncertainty	mg.m ⁻³	10.91		
·	ma.m ⁻³	2 1.82	-	-
Combined uncertainty Expanded uncertainty	mg.m ⁻³	2 1.82	-	-
Expanded uncertainty	mg.m ⁻³	1.82 4.06	-	-
· · · · · · · · · · · · · · · · · · ·	mg.m ⁻³	ON PETRON 1.82	-	-
Uncertainty corrected to std conds. Expanded uncertainty expressed with a	mg.m ⁻³	ON PETRON 1.82	-	-
Uncertainty corrected to std conds. Expanded uncertainty expressed with a evel of confidence of 95% Expanded uncertainty expressed with a	mg.m ⁻³	4.06	- - -	- - -
Expanded uncertainty	mg.m ⁻³	4.06 2.7	- - -	-

Visit No: 2
Year: 2020
Licence Holder: Louth County Council, F1
Facility Location: Drogheda Landfill
Rev.No: 1

Sulphur Dioxide Quality Assurance

•				
Sampling Details				
Stack ID	F1			
Parameter	Units	Run 1	Run 2	Run 3
Sampling Times	-	13:05	-	•
Sampling Dates	-	30/09/2020	-	-
Instrument Range	ppm	200	1	-
Span Gas Value	ppm	152.4	-	-
Acceptable Gas Range	-	Υ	-	-
Quality Assurance	Units	Run 1	Run 2	Run 3
Conditioning Unit Temperature	°C	2	-	-
Average Temperature	< ⁰ C	2	<u>و</u> .	-
Allowable Temperature	-	4 💉	-	-
Temperature Acceptable	-	JAY DY OF	-	-
Pump flow rate	l/min	2501,014	-	-
		Paired		
Zero Drift	Units on Qu	Run 1	Run 2	Run 3
Zero Down Sampling Line (Pre)	pplat white	0.8	-	-
Zero Down Sampling Line (Post)	or pour	1.4	-	-
Zero Drift	Soppm	-0.6	-	-
Allowable Zero Drift (5%)	ppm	7.62	-	•
Zero Drift Acceptable	Y <2%/Y 2-5%/N>5%	Y <2%	-	-
Zero Drift	%	-0.39	-	•
Span Drift	Units	Run 1	Run 2	Run 3
Span Down Sampling Line (Pre)	ppm	152.4	-	-
Span Down Sampling Line (Post)	ppm	155.2	-	-
Span Drift	ppm	-2.8	-	•
Allowable Span Drift (5%)	ppm	7.62	-	•
Span Drift Acceptable (Y/N)	Y <2%/Y 2-5%/N>5%	Y <2%	-	-
Span Drift	%	-1.84	-	-
Leak Check	Units	Run 1	Run 2	Run 3
Span Gas Conc.	ppm	152.4	-	-
Recorded Conc. down Line	ppm	152.4	-	-
Leak check acceptable (< 2%)	(Y/N)	Y <2%	-	-
Took Conditions				
Test Conditions	Units	Run 1	Run 2	Run 3

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Visit No: 2 Licence Holder: Louth County Council, F1 Year: 2020 Facility Location: Drogheda Landfill Office: Trim

Rev.No: 1

Sulphur Dioxide Results & Sampling Details

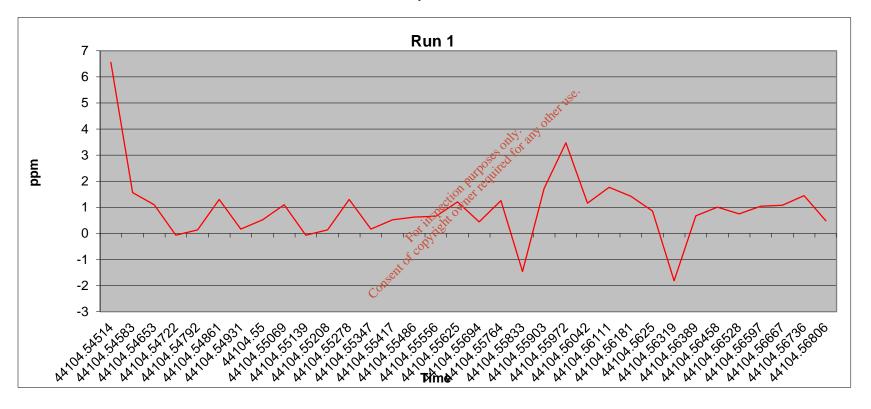
Parameter	Units	Run 1	Run 2	Run 3	Mean
Concentration	mg.m ⁻³	2.71	-	-	-
Uncertainty	mg.m ⁻³	3.52	-	-	-
Mass Emission	kg.h ⁻¹	-	-	-	-

General Sampling Information	
Parameter	Value
Standard	CEN/TS 17021
Technical Procedure	SOP 2046
	use.
Probe material	other SS
Filtration Type/Size	att and PTFE
Heated Head Filter Used	NY PTFE Yes
Heated Line Temperature	180
Date & Result of last converter check	-
· Ste contr	•
Span Gas Reference Number	ASLTM19ING511
Span Gas Expiry Date	Feb-21
Span Gas Start Pressure (bar)	40
Gas Cylinder Concentration (ppm)	152.4
Span Gas Uncertainty (%)	<2
Zero Gas Type	N
Number of Sampling Lines Used	1
Number of Sampling Points Used	1
Sample Point I.D's	F1
Reference Conditions	
Temperature (K)	273.15
Pressure (kPa)	101.3
Gas (Wet or Dry)	Dry
Oxygen	3

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02 Licence Holder: Louth County Council, F1 Facility Location: Drogheda Landfill

Rev.No: 1

Sulphur Dioxide Trend



Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02 Licence Holder: Louth County Council, F1 Facility Location: Drogheda Landfill

Rev.No: 1

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Visit No: 2
Year: 2020
Licence Holder: Louth County Council, F1
Facility Location: Drogheda Landfill

Office: Trim Rev.No: 1

Sulphur Dioxide Measurement Uncertainty

Measured Quantities	Units	Run 1	Run 2	Run 3
Certified Range of Analyser	ppm	2.14 to 1000	-	-
Operational Range of Analyser	ppm	1000	-	-
Measured Reading	ppm	0.95	-	-
Measured Quantities	Units	Run 1	Run 2	Run 3
Nonlinearity	%	0.8	-	-
Temperature Dependent Zero drift	%	0.8	-	-
Temperature Dependent Span drift	%	2	-	-
Cross-sensitivity	%	1.5	-	-
Leak	%	0	-	-
Calibration Gas Uncertainty	%	<2 %	-	-
		-	.ల.	•
Parameter	Units	Run 1 🦽	Run 2	Run 3
Combined uncertainty	mg.m ⁻³	1.08.	-	-
Expanded uncertainty	mg.m ⁻³	2.151 m	-	-
		att ⁰ sited t		
Uncertainty corrected to std conds.	mg.m ⁻³	3.52	-	-
Uncertainty corrected to std conds.	mg.m ⁻³	Owner red 3.52	-	-
Expanded uncertainty expressed with a	% of ELV	3.52	-	-
Expanded uncertainty expressed with a level of confidence of 95% Expanded uncertainty expressed with a	% of ELV	3.52	-	-
Uncertainty corrected to std conds. Expanded uncertainty expressed with a level of confidence of 95% Expanded uncertainty expressed with a level of confidence of 95%	o de la competition della comp	on the real 3.52	-	

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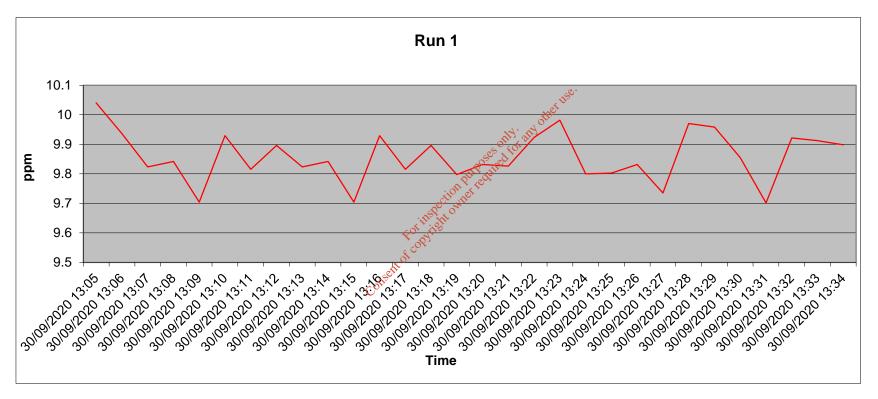
Oxygen Quality Assurance

	Daygen Quanty	71000101100		
Sampling Details				
Stack ID	F1			
Parameter	Units	Run 1	Run 2	Run 3
Sampling Times	-	13:05	-	1
Sampling Dates	-	30/09/2020	-	-
Instrument Range	ppm	25	-	-
Span Gas Value	ppm	20.9	-	1
Acceptable Gas Range	-	Υ	-	-
Quality Assurance	Units	Run 1	Run 2	Run 3
Conditioning Unit Temperature	°C	2	-	-
Average Temperature	< °C	2	-	-
Allowable Temperature	-	4	-	-
Temperature Acceptable	-	Y	ist _	-
Pump flow rate	l/min	0.4 office	-	-
		off and		
Zero Drift	Units	్రాష్ట్ర Run 1	Run 2	Run 3
Zero Down Sampling Line (Pre)	% Trill	(e ⁽¹⁾ 0.1	-	-
Zero Down Sampling Line (Post)	%citother	0.1	-	-
Zero Drift	119811	0	-	-
Allowable Zero Drift (5%)	FORW.	1.05	-	-
Zero Drift Acceptable (Y/N)	8<2%/Y 2-5%/N>5%	Y <2%	-	-
	sett			
Span Drift	Units	Run 1	Run 2	Run 3
Span Down Sampling Line (Pre)	%	20.9	-	-
Span Down Sampling Line (Post)	%	20.9	-	-
Span Drift	%	0	-	-
Allowable Span Drift (5%)	%	1.05	-	-
Span Drift Acceptable (Y/N)	Y <2%/Y 2-5%/N>5%	Y <2%	-	-
		·		
Leak Check	Units	Run 1	Run 2	Run 3
Span Gas Conc.	%	20.9	-	-
Recorded Conc. down Line	%	20.9	-	-
Leak check acceptable (< 2%)	(Y/N)	Y <2%	-	-
Test Conditions	Units	Run 1	Run 2	Run 3
Run Ambient Temperature Range	°C	10	-	-
Combined uncertainty	% vol	0.16	=	-
% of value	%	1.65	-	-
Expanded uncertainty	% of value	3.3	=	-
Expanded uncertainty	% vol	0.33	-	-

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Oxygen trend



Visit No: 2
Year: 2020
Licence Holder: Louth County Council, F1
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Carbon Dioxide Quality Assurance

Carbo	n Dioxide Qua	anty Assurant	, C	
Sampling Details				
Stack ID	F1			
Parameter	Units	Run 1	Run 2	Run 3
Sampling Times	-	13:05	-	i
Sampling Dates	-	30/09/2020	-	i
Instrument Range	ppm	20	-	-
Span Gas Value	ppm	15.5	-	-
Acceptable Gas Range	-	Υ	-	-
Quality Assurance	Units	Run 1	Run 2	Run 3
Conditioning Unit Temperature	°C	2	-	-
Average Temperature	< ⁰ C	2	-	ı
Allowable Temperature	-	4	-	-
Temperature Acceptable	-	Υ	-	=
Pump flow rate	l/min	0.4	18 ⁶	-
		Oille		
Zero Drift	Units	Run	Run 2	Run 3
Zero Down Sampling Line (Pre)	%	0.1 O.1	-	-
Zero Down Sampling Line (Post)	% April	0.1	-	i
Zero Drift	%ctionie	0	-	-
Allowable Zero Drift (4%)	119/8/11	0.62	-	-
Zero Drift Acceptable	Y 2% 2-4% /N>4%	Y <2%	-	i
	, of co	-		
Span Drift	Units	Run 1	Run 2	Run 3
Span Down Sampling Line (Pre)	%	15.5	-	i
Span Down Sampling Line (Post)	%	15.4	-	-
Span Drift	%	0.1	-	ī
Allowable Span Drift (4%)	%	0.62	-	ī
Span Drift Acceptable	Y <2%/Y 2-4% /N>4%	Y <2%	-	-
Leak Check	Units	Run 1	Run 2	Run 3
Span Gas Conc.	ppm	15.5	-	=
Recorded Conc. down Line	ppm	15.5	-	-
Leak check acceptable (< 2%)	(Y/N)	Y <2%	-	•
	•			
Test Conditions	Units	Run 1	Run 2	Run 3
Run Ambient Temperature Range	°C	10	-	-
Combined uncertainty	% vol	0.16	-	-
% of value	%	1.68	-	-
Expanded uncertainty	% of value	3.37	-	-
Expanded uncertainty	% vol	0.32	-	=

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Carbon Dioxide Results & Sampling Details

Parameter	Units	Run 1	Run 2	Run 3	Mean
Concentration	%	9.47	-	-	-
Uncertainty	%	0.32	-	-	-

General Sampling Information	
Parameter	Value
Standard	ISO 12039
Technical Procedure	SOP 2045
Probe material	<u>\$</u> S
Filtration Type/Size	Ceramic
Heated Head Filter Used	Yes Yes
Heated Line Temperature	Yes 180
Span Gas Reference Number	II. Co
	ASLTM19ING535
Span Gas Expiry Date	24-Jun
Span Gas Start Pressure (bar)	60
Gas Cylinder Concentration (ppm)	15.5
Span Gas Uncertainty (%)	<2
Zero Gas Type	N
Number of Sampling Lines Used	1
Number of Sampling Points Used	1
Sample Point I.D's	F1
Reference Conditions	
Temperature (K)	273.15
Pressure (kPa)	101.3
Gas (Wet or Dry)	Dry
Oxygen	3

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Carbon Dioxide Trend



Visit No: 2 Year: 2020 Office: Trim

dependence on voltage

losses in the line (leak)

Uncertainty of calibration gas

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Uncert Sheets

CO Uncert

Uncertainty calculation for Gaseous Measurement CO

Limit value	50 mg/m3 (corre Cal gas conc	199.75 mg.m-3
Measured concentration	3.09 mg/m3 Full Scale	200 mg/m3
Measured concentration	3.09 mg/m3 (Corrected)	

Correction for reference conditions						
		O2, %	Moisture,	Pressure, KPa	Temperature, K	
	ref	3.00	0.00	101.30	273.00	
	measured	9.86	0.00	101.30	275.15	
	Uncert	0.35	1.00	0.00	1.00	
Factors		1.62	1.00	1.00	1.01	
Uncertainty in factor		0.05	0.01	0.00	0.00	
Correction Factor		1.63	uf	0.05		

value at calib

100 kPa

0 mg/m3

0 %vol 0 mg/m3

0 %vol

110 V

100.88 kPa

287.5 K

max

105

100.92

288.5

40

15

57

121

Performance characteristics	,	Value		spe	ecification	oses of for	Effect of d
Response time		180	seconds	180.000)	urposes of for	
Logger sampling interval		60	seconds		ction	ei	
Measurement period		34	minutes		inspend		
Number of readings in measuremen	t	34			Fordyild		
Repeatability at zero		0.25	% full scale	<1 % ra	ange& Corr		
Repeatability at span level		0.15	% full scale	<2 % ra	ange		
Deviation from linearity(lack of fit)		0.7	% of value	<2 % ra	nge		
Zero drift		0	mg/m3	<2% rar	nge / 24hr		ranges
Span drift		0.125	mg/m3	<2% rar	nge/24hr		min
volume or pressure flow dependence	е	0.02	% of full scale/3 kPa	<2 % / 3	3 kPa	flow	
atmospheric pressure dependence		0.8	% of full scale/2 kPa	<3% / 2	kPa	pressure	
ambient temperature dependence		0.01	% full scale/10K	<3% rar	nge / 10 K	temp	
N2O (mg/m3)	20	0.2	mg/m3			N2O range	
CO2 (% vol)	15	0.2	mg/m3			CO2 range	
CH4 (mg/m3)	40	0.7	mg/m3			CH4 range	
H2O (% vol)	20	0.2	mg/m3			H2O range	

% full scale/10V

% of value

% of value

0.1

0.00

2

Effect of drift	
	0.00 mg/m3
	0.00 % full scale

95.00

100.76

287

0

0

0

93

Performance characteristic		Uncertainty	Val	lue of uncertainty quant	tity	mg/m3
Standard deviation of repeatability at zero		ur0		for mean		use rep at span
Standard deviation of repeatability at spa	level	urs		for mean		0.05
Lack of fit		ufit				0.01
Drift		u0dr				0.00
volume or pressure flow dependence		uspres				0.04

Voltage

<2% range

< 2% of value

< 0.1%vol /10 volt

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Facility Location: Drogheda Landfill

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Uncert Sheets

atmopsheric pressure dependence	ua	ores		0.05]	
ambient temperature dependence	ute	emp		0.00		
N2O (mg/m3)	uir	iterf		0.23	Use largest of sum of all posit	ive or all negative influences
CO2 (% vol)	uir	iterf		0.12	0.93 all +ves	Criteria
CH4 (mg/m3)	uir	iterf		0.58	0 all -ves	sum <4% range
H2O (% vol)	uir	iterf		0.01	0.93 largest	0.061877451
Dependence on voltage	u	/olt		0.17	Value to use for intereference u	ncertainty
losses in the line (leak)	ul	eak		0.00	uint 0.93	
Uncertainty of calibration gas	uc	alib		0.04		
Uncertianty in factor	•	uf .		0.16	1	

Measurement uncertainty				
Combined uncertainty			0.95	mg/m3
Expanded uncertainty	k =	2	1.90	mg/m3
Uncertainty corrected to std cor	nds		3.10	mg/m3
Expanded uncertainty	expres	sed with a leve	el c 6.21	% ELV
Expanded uncertainty	expres	sed with a leve	el c 3.10	mg.m-3
Expanded uncertainty	expres	sed with a leve	el c 100.34	% value

Requirement in standard is for uncertainty to be < 10% at ELV at standard conditions

Note: Enter values into green boxes

Dark blue boxes indicate information that can be obtained from MCERTS tests

Developed for the STA by R Robinson, NPL

NOx Uncert

Uncertainty calculation for Gaseous Measurement NOx EN14792

RUN 1				
Limit value	150 mg/m 3	3 (corre Cal gas conc	338.5397	mg.m-3 (NO2)
Measured concentration	13 ppm			-
Measured concentration	27.15 mg/m3	3 (101.3 Full Scale	513.25	mg/m3 (NO2)
Measured concentration	27.15 mg/m3	3 (Corrected)		
		Gas	NO	
NO/NO2 ratio	100.00	Full Scale	250	ppm
		Cal gas conc	164.9	ppm
		Conversion	2.053	

		O2, %	Moisture,	Pressure, KPa	Temperature, K
	ref	3.00	0.00	101.30	273.00
	measured	9.86	0.00	101.30	275.15
	Uncert	0.35	0.00	0.00	1.00
Factors		1.62	1.00	1.00	1.01
Uncertainty in factor		0.05	0.00	0.00	0.00
Correction Factor		1.63	uf	0.05	

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Facility Location: Drogheda Landfill

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Uncert Sheets

Performance characteristics	٧	/alue			specification	Ì	Effect of drift			
Response time		180	seconds		180.000		0.0	0 mg/m3		
ogger sampling interval		60	seconds					0 % full scale		
Measurement period		34	minutes							
lumber of readings in measurement		34							1	
Repeatability at zero		0.03	% full scale		<1 % range					
Repeatability at span level		0.06	% full scale		<2 % range					
Deviation from linearity(lack of fit)		0.2	% of value		<2 % range					
Zero drift		0.8	mg/m3		<2% range / 24hr		ranges			
Span drift			mg/m3		<2% range/24hr		min	max	value at calib	
rolume or pressure flow dependence		0	%of full scale/kPa		-	flow	95.0	0 105	100	kPa
atmospheric pressure dependence		0	%of value /kPa			pressure	101.3		101.3	
ambient temperature dependence		0.3	% full scale/10K			temp	.0: 28	9 289	289	
NH3 (mg/m3)	20		mg/m3		-	NH3 range	per the	0 0		mg/m3
CO2 (% vol)	15	0.2	mg/m3			CO2 range		0 15		%vol
						्र शांति याः				
12O (% vol)	30	0.0	mg/m3			H2O range		0 0	0	%vol
lependence on voltage		0.1	% full scale/10V		<2% range	Voltage	9	3 121	110	V
osses in the line (leak)		0	% of value		< 0.1%vol /10 volt	, O				
Converter efficency		95.4	%		>95%					
Incertainty of calibration gas		2	% of value		< 2% of value					
					ator					
Performance characteristic			Uncertainty	Val	ue of uncertainty quan	tity	mg/m3	_		
Standard deviation of repeatability at			ur0		for mean		use rep at span	_		
Standard deviation of repeatability at	span level		urs		for mean		0.05	_		
ack of fit			ufit				0.03	4		
Drift			u0dr				0.00	_		
olume or pressure flow dependence			uspres				0.00	_		
tmopsheric pressure dependence			uapres				0.00	_		
imbient temperature dependence			utemp				0.00			
NH3			uinterf				0.00		-	ive or all negative influence
CO2 (% vol)			uinterf				0.12		all +ves	Criteria
									all -ves	sum <4% range
120 (% vol)			uinterf				0.00		largest	0.543038627
Dependence on voltage			uvolt				0.44	Value to use for in		•
osses in the line (leak)			uleak				0.00	uint	0.12	
Incertainty of calibration gas			ucalib				0.31	_		
converter efficiency			uceff				0.72	_		
			uf				1.38	_		
Incertainty in factor										
Incertainty in factor					•					
Incertainty in factor Measurement uncertainty			0.91	mg/m3						

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Facility Location: Drogheda Landfill

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Uncert Sheets

Expanded uncertainty	k =	2	1.82	mg/m3
Uncertainty corrected to std con	ds		4.06	mg/m3
Expanded uncertainty	expressed	d with a level o	2.70	% ELV
Expanded uncertainty	expressed	d with a level o	4.06	mg.m-3
Expanded uncertainty	expressed	d with a level o	14.94	% value

Requirement in standard is for uncertainty to be < 10% at ELV at standard conditions

Note: Enter values into green boxes

Dark blue boxes indicate information that can be obtained from MCERTS tests

Developed for the STA by R Robinson, NPL

corrected drift to be based on mg/m3 reading and the correction alert to be based on mg/m3 reading and

SO₂ Uncert

Run 1

Uncertainty calculation for Gaseous Measurement SO2 EA M21

Limit value	0 mg/m3 (corre Cal gas conc	435.864 mg.m-3
Measured concentration	2.71 mg/m3 Full Scale	572 mg/m3
Measured concentration	2.71 mg/m3 (Corrected)	

Performance characteristics	Value		specification
Response time	180	seconds	180.000
Logger sampling interval	60	seconds	
Measurement period	34	minutes	
Number of readings in measurement	34		
Repeatability at zero	0.25	% full scale	<1 % range
Repeatability at span level	0.15	% full scale	<2 % range

Correction for reference	conditions				
		O2, %	Moisture,	Pressure, KPa	Temperature, K
	ref	3.00	0.00	101.30	273.00
	measured	9.86	0.00	101.30	275.15
	Uncert	0.35	1.00	0.00	1.00
Factors		1.62	1.00	1.00	1.01
Uncertainty in factor		0.05	0.01	0.00	0.00
Correction Factor		1.63	uf	0.05	

Effect of drift	
	0.00 mg/m3
	0.00 % full scale

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Expanded uncertainty

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> Facility Location: Drogheda Landfill Rev.No: 1

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						•				
Deviation from linearity(lack of fit)		0.7	% of value		<2 % range					
Zero drift		0	mg/m3		<2% range / 24hr		ranges			
Span drift		0.5	mg/m3		<2% range/24hr		min	max v	alue at calib	
volume or pressure flow dependence	е	0.02	% of full scale/3 kPa		<2 % / 3 kPa	flow	95.00	105	100 kPa	
atmospheric pressure dependence		0.8	% of full scale/2 kPa		<3% / 2 kPa	pressure	100.76	100.92	100.88 kPa	
ambient temperature dependence		0.01	% full scale/10K		<3% range / 10 K	temp	287	288.5	287.5 K	
N2O (mg/m3)	20	0.2	mg/m3			N2O range	0	40	0 mg/m3	
CO2 (% vol)	15	0.2	mg/m3			CO2 range	0	15	0 %vol	
CH4 (mg/m3)	40	0.7	mg/m3			CH4 range	0	57	0 mg/m3	
H2O (% vol)	20	0.2	mg/m3			H2O range	0	1	0 %vol	
dependence on voltage		0.1	% full scale/10V		<2% range	Voltage	93	121	110 V	
losses in the line (leak)		2	% of value		< 0.1%vol /10 volt					
Uncertainty of calibration gas		2	% of value		< 2% of value			_		
							.g.·			
Performance characteristic			Uncertainty	Va	ue of uncertainty quan	tity	mg/m3			
Standard deviation of repeatability a	t zero		ur0		for mean	4. 4	use rep at span			
Standard deviation of repeatability a	t span level		urs		for mean	e Officiality	0.15			
Lack of fit			ufit			we red	0.01			
Drift			u0dr			ar real	0.00			
volume or pressure flow dependence	е		uspres		ectivari	le.	0.11			
atmopsheric pressure dependence			uapres		institu		0.14			
ambient temperature dependence			utemp		FORM		0.00			
N2O (mg/m3)			uinterf		at of C		0.23	Use largest of sun	n of all positive or all n	egative influenc
CO2 (% vol)			uinterf		aliseir		0.12	0.93 a	all +ves	Criteria
CH4 (mg/m3)			uinterf		C		0.58			sum <4% range
H2O (% vol)			uinterf				0.01	0.93 la	argest	0.054272706
Dependence on voltage			uvolt				0.49	Value to use for int	tereference uncertainty	
losses in the line (leak)			uleak				0.03	uint	0.93	
Uncertainty of calibration gas			ucalib				0.03			
Uncertianty in factor			uf				0.14			
Measurement uncertainty										
Combined uncertainty			1.08	mg/m3						
Expanded uncertainty	k =	2	2.15	mg/m3						
Uncertainty corrected to std cond			3.52	mg/m3						
Expanded uncertainty	expressed	l with a level o	0.00	% ELV						
Expanded uncertainty	expressed	l with a level o	3.52	mg.m-3						
					7					

Requirement in standard is for uncertainty to be < 10% at ELV at standard conditions

129.66 % value

expressed with a level of

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Note: Enter values into green boxes

Dark blue boxes indicate information that can be obtained from MCERTS tests

Developed for the STA by R Robinson, NPL

O₂ Uncert

Run 1			
Uncertainty	calculation for Gaseous Measuremen	t Oxygen	EN14789

Limit value n/a %vol Calibration gas 20.9 %vol 9.86 %vol 25 %vol Measured concentration **Full Scale**

Performance characteristics	'	Value			specification	
Response time		180	seconds		< 200 s	
Logger sampling interval		60	seconds		ento	
Measurement period		34	minutes		Course	
Number of readings in measuremen	t	34	Assuming 1 minute collected over 1 hour			
Repeatability at zero		0.015	% by volume	stdev	<0.2 % range	
Repeatability at span level		0.014	% by volume	stdev	<0.4 % range	
Deviation from linearity	0.13	% vol	+/-	<0.3 % volume		
Zero drift (during measurement perio	0	% vol at zero level	+/-	<2% of volume / 24hr		
Span drift (during measurement per	0	% vol at span level	+/-	<2% volume/24hr		

Effect of drift	
	0.00 % vol
	0.00 % full scale

Repeatability at zero		0.015	% by volume	stdev	<0.2 % range		
Repeatability at span level		0.014	% by volume	stdev	<0.4 % range		
Deviation from linearity		0.13	% vol	+/-	<0.3 % volume		
Zero drift (during measurement perio	od)	0	% vol at zero level	+/-	<2% of volume / 24hr		range
Span drift (during measurement peri	iod)	0	% vol at span level	+/-	<2% volume/24hr		
volume or pressure flow dependence	е	0	% of fs / 10l/h	+- 5 l/h	<1% range	flow	
atmospheric pressure dependence		0.3	% of fs/kPa	+- 2kPa	< 1.5 % range	pressure	
ambient temperature dependence		-0.07	% by volume /10K	+- 15K	<0.3% volume 10 K	temp	
CO2 (% vol)	15	0.07	% by volume per	15		CO2 range	
NO (mg/m3)	300	0.02	% by volume per	300		NO range	
NO2 (mg/m3)	30	0	% by volume per	30		NO2 range	
Combined interference		0.56	% range		<2% range	Voltage	
Dependence on voltage		0.1	% by volume /10V	+- 5%	< 0.1%vol /10 volt		
Losses in the line (leak)		2	% of value		< 2% of value		
Uncertainty of calibration gas		0.5	% of value				

	range of variation from conditions at calibration									
	min	max	value at calib							
flow	5	15	10	l/h						
pressure	99.00	101	100	kPa						
temp	280	285	285	K						
CO2 range	8	15	0	% vol						
NO range	100	150	0	mg/m3						
NO2 range	5	7.5	0	mg/m3						
Voltage	105	115	110	V						

Performance characteristic	Uncertainty	Val	ue of uncertainty quan	tity	% vol
Standard deviation of repeatability at zero	ur0		for mean		Only use rep at span

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Standard deviation of repeatability at	span level	urs	for mean	0.00	1		
Lack of fit		ufit		0.08			
Drift		u0dr		0.00			
volume or pressure flow dependence		uspres		0.00			
atmospheric pressure dependence		uapres		0.04			
ambient temperature dependence		utemp		-0.02			
CO2				0.05	Use largest of sum of all posit	ve or all ne	egative influences
NO				0.01	0.06 all +ves		
NO2				0.00	0 all -ves		
Combined interference (from mcerts)				0.08	0.06 largest		
dependence on voltage		uvolt		0.03	Value to use for intereference u	ncertainty	
losses in the line (leak)		uleak		0.11	uint 0.06		
Uncertainty of calibration gas		ucalib		0.03			

Expanded uncertainty	expressed	with a level o	0.3	33 % vol
Expanded uncertainty	expressed	with a level o	3.3	30 % of value
Coverage factor k =	2			
% of value			1.65	%
Combined uncertainty			0.16	%vol
Measurement uncertainty			9.86	%vol

Requirement for SRM is that Uncertaitny should be < 6% of value, on a dry gas basis

Note: Enter values into green boxes

Dark blue boxes indicate information that can be obtained from MCERTS tests

Purple boxes are from manufacturer specification, or CEN standard as MCERTS data not available

Developed for the STA by R Robinson, NPL

corrected drift alert to be based on % full scale

CO₂ Uncert

Uncertainty calculation for Gaseous Measurement Carbon Dioxide

Limit value	n/a	%vol	Calibration gas	15.5 %vol
Measured concentration	9.47	%vol	Full Scale	25 %vol
			_	

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02 Licence Holder: Louth County Council, F1

Facility Location: Drogheda Landfill

Rev.No: 1

Uncert Sheets

Performance characteristics	\	/alue			specification	Ì			
Response time		180	seconds		< 200 s	1	Effect of drift		
Logger sampling interval			seconds				(0.00 % vol	
Measurement period		34	minutes			1	(0.00 % full scale	
Number of readings in measurement	t	34	Assuming 1 minute co	llected over	1 hour	1			
Repeatability at zero		0.015	% by volume	stdev	<0.2 % range				
Repeatability at span level		0.014	% by volume	stdev	<0.4 % range	1			
Deviation from linearity		0.13	% vol	+/-	<0.3 % volume	1			
Zero drift (during measurement perio	od)	0	% vol at zero level	+/-	<2% of volume / 24hr		range of variation from	conditions at calibratio	n
Span drift (during measurement peri-	od)	0	% vol at span level	+/-	<2% volume/24hr	1	min	max va	alue at calib
volume or pressure flow dependence	Э	0	% of fs / 10l/h	+- 5 l/h	<1% range	flow		5 15	10 l/h
atmospheric pressure dependence		0.3	% of fs/kPa	+- 2kPa	< 1.5 % range	pressure	99	9.00 101	100 kPa
ambient temperature dependence		-0.07	% by volume /10K	+- 15K	<0.3% volume 10 K	temp		280 285	285 K
CO2 (% vol)	15	0.07	% by volume per	15		CO2 range	د	8 15	0 % vol
NO (mg/m3)	300	0.02	% by volume per	300		NO range	netise.	100 150	0 mg/m3
NO2 (mg/m3)	30	0	% by volume per	30		NO2 range		5 7.5	0 mg/m3
Combined interference		0.56	% range		<2% range	Voltage		105 115	110 V
Dependence on voltage		0.1	% by volume /10V	+- 5%	< 0.1%vol /10 volt	170 sited			
osses in the line (leak)		2	% of value		< 2% of value	in tedit			
Uncertainty of calibration gas		0.5	% of value		Section with	er.			
	•			•	OTITUDIT	1			
Performance characteristic			Uncertainty	Va	lue of uncertainty quar	tity	% vol		
Standard deviation of repeatability at	zero		ur0		for mean		Only use rep at spar	n	
Standard deviation of repeatability at	span level		urs		conser for mean		0.00		
_ack of fit			ufit				0.08		
Drift			u0dr				0.00		
volume or pressure flow dependence	Э		uspres				0.00		
atmospheric pressure dependence			uapres				0.04		
ambient temperature dependence			utemp				-0.02		
CO2							0.05	Use largest of sum	of all positive or all ne
NO							0.01	0.06 al	l +ves
NO2							0.00	0 al	I -ves
Combined interference (from mcerts)						0.08	0.06 la	rgest
dependence on voltage			uvolt				0.03	Value to use for inte	ereference uncertainty
losses in the line (leak)			uleak				0.11	uint	0.06
Uncertainty of calibration gas			ucalib				0.03		
					·	ı	1		
Measurement uncertainty			9.47	%vol]				
Combined uncertainty			0.16	%vol	1				
,			1.68	%	1				
% of value					1				
	2								
% of value Coverage factor k = Expanded uncertainty	2 expressed	with a level o	3.37	/ % of value					

Visit No: 2 Year: 2020 Office: Trim EPA Licence No.: WL0034-02 Licence Holder: Louth County Council, F1

Facility Location: Drogheda Landfill

Rev.No: 1

Uncert Sheets

Requirement for SRM is that Uncertaitny should be < 6% of value, on a dry gas basis

Note: Enter values into green boxes

Dark blue boxes indicate information that can be obtained from MCERTS tests

Purple boxes are from manufacturer specification, or CEN standard as MCERTS data not available

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Appendix D Noise Survey 2020



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ANNUAL REPORT 2020 Environmental Noise levels at Drogheda Landfill and Civic Amenity Site **Total Programment Pro



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Report Date:	27/05/2020	Report No.	12020
Report Prepared By:	Noel Carr	Report Approved By:	Sajin Charles Darwin
Signed:	hallon/	Signature:	Sojin ancorles
Version	LCCDLF0320ENVNNC		

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1.0 Introduction

In order to comply with current Waste Licence conditions (W0033) – Louth County Council commissioned NVM Limited to complete a series of attended day evening and night time noise surveys at pre – determined noise sensitive monitoring locations near the boundaries of their landfill site at Drogheda, Co. Louth.

Drogheda landfill closed to the acceptance of waste for disposal in December 1999. However, a civic amenity site continues to be operated on the site of the old landfill.

The following results show the collected measurement results from the Drogheda landfill survey, including location details and a brief discussion on noise climate at each location.

2.0 Scope of Survey

The current survey was completed on Thursday 5th of March 2020 to collect measurement results at 3 no. Noise Sensitive Locations (NSLs) to show compliance with the NG4 guideline outlined below:

Fig 1. Extract from NG4 2016.

Typical Limit Values for Noise from Licensed Sites

Devitime (07:00 to 19:00hrs) – 55dB L_{Ar,T}; Evening (19:00 to 23:00hrs) – 50dB L_{Ar,T}; Night-time (23:00 to 07:00hrs) – 45dB L_{Aeq,T}.

3.0 Noise Survey Details

3.1 Methodology

The measurements were completed in general accordance with the following environmental noise standards:

ISO 1996: 2016 Acoustics – Description and Measurement of Environmental Noise, Parts 1-4

Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4) 2016.

The noise survey results are presented in terms the parameters listed in in the Appendix II.



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All day time and evening measurements were completed to a reference of **LAeqT 30 min** as stated in the guidance documentation. The night time measurements were completed to a reference of **LAeqT 15 min**.

As the landfill is no longer operating, the presence of any audible tones could not be associated with landfill activities. Therefore, it was not considered necessary to complete octave band analysis at the residential dwellings to establish if such pure tones were present.

It is worth considering that when assessing continuous noise sources from plant machinery, the LA90 is an appropriate parameter to use. It describes the background noise level in the absence of once-off events such as cars passing and other loud unexpected noises, (e.g. doors shutting at nearby residential properties).

As all of the locations in the current survey are adjacent to local roads and residential properties, the LA90 measurements at these locations should be considered.

3.2 Personnel and Instrumentation

Surveys were completed by Sajin Charles Darwin (NVM) / Noel Carr evening / night time measurements of NVM Ltd., who meets the criteria for a "competent person" as defined by the EPA in their 2016 EPA publication, "Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)".

The instrumentation used during the attended surveys is presented in Table 3.1 below.

Table 3.1. Noise Instrumentation Calibration Summary

Manufacturer	Instrument Type	Calibrated by	Calibration Reference
Cirrus	Cirrus Noise Level Meter CR:171B Serial No. G056355,	Cirrus Research	Cal no. 259202
Cirrus	Cirrus Acoustic Calibrator CR:511E Serial No 41032,	Cirrus Research	Cal no. 259203
Svantek	SV977 type 1 SLM	AcSoft Calibration	Cal no: 14010137-2

The sound level meter was checked and calibrated before and on completion of the surveys. There were no significant changes found to have occurred (no more than 0.1 dB).



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4.0 Weather Report

The weather conditions for the daytime survey can be described as cloudy with sunny spells. There was no rain, temperatures varied from 7 to 5 degrees, and the mean wind speed was c. 4 knots [~ 0.5 m/s]. The wind direction was westerly, varying from 120 to 290 degrees. Conditions remained dry and relatively calm for the night-time survey, with temperatures dropping to between 0 and 2 degrees. The wind speed was lower at between 1 and 3 knots, while the direction was south-easterly.

Table 4.1: Meteorological data from Met Eireann weather station at Dunsany.

Date	Rainfall	Max Temp	Min Temp	Grass Min Temp	Mean Wind Speed	Max Gust	Sunshine
	(mm)	(°C)	(°C)	(°C)	(knots)	(>= 34 knots)	(hours)
05/03/2020	0.1	7.6	-4.2	-6.8	olitet Ise. 3.2		

5.0 Measurement Locations and Notes on Noise Climate

5.1 Noise Sensitive Locations

The following paragraphs describe the noise monitoring locations, which are shown in accompanying map in Appendix I. All are noted as Noise Sensitive Locations (NSL) at closest proximity to the landfill site.

NSL 1 – Cottage Upper Mell (R168) boundary to landfill

The noise sensitive location comprises an old-style stone cottage surrounded by a yard where stonework on headstones for graves is carried out. The yard forms the boundary to the landfill site. A large perforated fence and entrance gate facilitates trucks driving through yard on a daily basis. The cottage faces (westwards) directly onto the main (R168) road.

A couple of semi-detached cottages of similar design are located on opposite side of road.

NSL 2 – Cottage on Upper Mell (R168) opposite landfill

The noise sensitive location comprises an old stone cottage of similar design to that at NSL 1. The stand-alone cottage faces (eastwards) directly onto the main (R168) road. This dwelling is surrounded by a small garden. The north gable end culminates at a laneway which has a number of detached relatively modern houses along it. The entrance to the recycling amenity and landfill site is approximately 400m south of this location on the opposite side of the road.



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NSL 3 – Cement Road

The noise sensitive location comprises a halting site which is located at the junction of the Mell (R168) road and the Cement Road. The site comprises standard halting site housing. A high mound forms the south boundary of the landfill facility which backs onto the halting site.

The road-side boundary consists of overgrown scrub and trees which is separated by a steel barrier entrance.

A development of occupied town houses (Boice Court) is positioned opposite the halting site next to the ALDI store.

5.2 Noise Climate

Traffic is the predominant source of noise at all monitoring locations during both daytime and evening periods. The landfill site, which is currently running as a recycling facility, was not audible at any of the noise sensitive locations.

At NSL 3 noise was intermittent in character due to cars and commercial vehicles entering and leaving the entrance to the ALDI store. During the daytime there was a continuous traffic on the cement Road, and at the junction with the R168. Noise, originating from a refrigeration unit at ALDI, was continuously audible but at a much lower level than the traffic. There was no 'customer traffic' at NSL3 during the night-time period. During the night time measurements, the noise of refrigerated delivery truck was audible from within the ALDI yard.

The hum of distant traffic along the M1 motorway was audible as a constant background noise during the late evening and night-time periods at all monitoring locations.



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6.0 Measurement Results

Noise Levels

Traffic is the predominant noise source at all locations during the current survey and is the single-most factor in contributing to noise levels in this busy Drogheda conurbation.

The Tables of results (Tables 1a, 1b), as presented in Appendix III show noise levels at noise sensitive locations NSL 1 and NSL 2 to be similar, as both are subjected to the same levels of traffic.

NSL 3 has lower noise intensity compared to the other two locations – this is indicative of higher traffic volumes on the upper Mel Road.

There is a very gradual decline in traffic volumes through the evening period and this is reflected in just a small reduction in noise results for this period. Night time noise levels show a more pronounced reduction in traffic and corresponding noise intensities compared to daytime and evening noise levels.

Hourly average noise levels as presented in Table 2 reflect the variations in noise levels between measuring locations and respective day evening and night-time periods as discussed above. Similarly, the single day-evening-night (DEN) values as presented in Table 3 demonstrate differences in noise levels between locations.

The following is a brief symopsis of the range of noise levels at each noise sensitive location during the respective measuring periods:

Location	Period	Duration [m]	Range	LA90 range
	Day	30	c. 75 – 78 dB(A)	60 - 61
NSL-1	Evening	30	70 – 73 dB(A)	54
	Night	15	64 – 68 dB(A)	45
	Day	30	Consistently 76 – 79 dB(A)	61 - 62
NSL-2	Evening	30	72 – 74 dB(A)	47
	Night	15	63 – 65 dB(A)	42 - 43
	Day	30	7 – 69	Consistently 53
NSL-3	Evening	30	66	51
	Night	15	44 – 61	39 - 41



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7.0 Conclusion

To conclude the landfill site has not been in operation since 1999. Hence the findings of this survey cannot be attributed to landfill activities. Traffic was found to be the predominant source of noise at all locations.

Reduced traffic noise levels during the night-time measuring period provides a more accurate representation of background noise against which any potential noise levels arising from the site activities could be compared.

The findings show that during the night-time measurements and during lulls in traffic noise there was no noise audible from the landfill site. Hence it is considered to be in compliance with NG4 and the requirements of Waste Licence W0033.

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Appendix I – Location Map





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Appendix II - Glossary of Parameters

LAeq is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period. It is typically used as a descriptor for

ambient noise.

LAmax is the instantaneous maximum sound level measured during the sample period.

LA10 is the sound level that is exceeded for 10% of the sample period. It is typically used as a descriptor for

traffic noise.

LA90 is the sound level that is exceeded for 90% of the sample period. It is typically used as a descriptor for

background noise.

Lden is the 24-hour noise rating level determined by the averaging of the Lday with the Levening + 5dB penalty

and the L_{night} + 10dB penalty. The formula for L_{den} is contained in Appendix 1.

The "A" suffix denotes the fact that the sound levels have been "A-weighted" in order to account for the non-linear nature of human hearing. All sound levels in this report are expressed in terms of decibels (dB) relative to 2x10-5 Pa.

Appendix III of ables of Results

Tables 1a -1c. Results of environmental poise levels as measured at three noise sensitive locations at the boundaries to Drogheda landfill quarry for Day, Evening and Night-time periods respectively.

Table 1a

Date	Measurement Period	Location	Sound Pressure Levels (dB re: 2X 10-5Pa)				Pa)
			Times	L_{Aeq}	L _{AMax}	L _{n 10}	L _{n 90}
		NSL 1	11:38 – 12:08	77	90	81	61
		NSL 1	13:56 – 14:26	77	91	81	60
	D ::	NSL 1	15:49 – 16:19	77	91	81	60
		NSL 2	10:56 – 11:26	77	91	82	61
04/02/2019	Daytime 07:00-19:00hrs	NSL 2	12:51 – 13:21	77	92	82	61
	07.00 10.001110	NSL 2	15:12 – 15:42	77	92	82	62
		NSL 3	10:12 – 10:42	67	85	70	53
		NSL 3	12:14 – 12:44	69	89	72	53
		NSL 3	14:32 – 15:02	69	85	73	53



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Table 1b

Date	Measurement Period	Location	Sound Pressure Levels (dB re: 2X 10-5Pa)			Pa)	
			Times	L_Aeq	L _{AMax}	L _{n 10}	L _{n 90}
		NSL 1	20:23 – 20:53	73	91	77	54
04/02/2019 Evening 19:00-23:00hrs	NSL 2	21:44 – 22:14	73	93	76	47	
	NSL 3	21:00 – 21:30	66	89	68	51	

Table 1c

Date	Measurement Period	Location	Sound Pressure Levels (dB re: 2X 10-5Pa)				
			Times	L _{Aeq}	L _{AMax}	L _{n 10}	L _{n 90}
		NSL 1	23:00 – 23:15	69	90	65	45
		NSL 1	00:02 - 00:17	,√6 6	87	62	45
04/02/2019	Night-time	NSL 2	23:41 – 23:56	³⁷⁰ 66	86	65	43
and 05/02/2019 2	23:00-07:00hrs	NSL 2	00:48 - 01:03	64	86	58	42
		NSL 3	23:20 - 23:35	61	83	59	41
		NSL 3	00:24 - 00:39	44	62	46	39

Hourly averages and L_{den} results as calculated using the formulae in Appendix IV for day, evening, and night measurements of noise at three boundary locations to Drogheda Landfill quarry. Conse

Table 2

Table 2							
		L _{Aeq 1hr}	L _{AMax 1hr}	L _{A10 1hr}	L _{A90 1hr}	L _{den} Value	
	Day	77	91	81	60		
NSL 1	Evening	77	91	81	60	78	
	Night	67	89	64	45		
	Day	77	92	82	61		
NSL 2	Evening	77	92	82	62	78	
	Night	65	86	63	43		
	Day	68	87	72	53		
NSL 3	Evening	69	85	73	53	70	
	Night	58	80	56	40		



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Appendix IV - Formulae

Hourly Averages – formula used to obtain the LAeq $_{1hr}$, $L_{AMax\ 1hr}$, $L_{A10\ 1hr}$, $L_{A90\ 1hr}$, values:

$$SPL = 10log \left[(10^{L1/_{10}} + 10^{L2/_{10}} ... + 10^{Ln/_{10}})/n \right]$$

L_{den} Calculation:

$$L_{den} = 10 \log_{10} \left(\frac{1}{24}\right) \left(12 \times 10^{\frac{L_{day}}{10}} + 4 \times 10^{\frac{(5 + L_{evening})}{10}} + 8 \times 10^{\frac{(10 + L_{night})}{10}}\right)$$

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Appendix V - Calibration Certificates

CERTIFICATE OF CALIBRATION

ISSUED BY

Cirrus Research plc

DATE OF ISSUE

29/04/19

CERTIFICATE NUMBER 128427



Cirrus Research plc **Acoustic House Bridlington Road** Hunmanby North Yorkshire YO14 0PH **United Kingdom**

Page 1 of 2 Test engineer: D.Swalwell

Electronically signed:



For inspection butter required for any other use.

Microphone capsule

Manufacturer: Cirrus Research plc

Model:

MK:224

Serial Number: 210458A

Calibration procedure

Date of calibration: 25 April 2019

Open circuit:

46.6 mV/Pa

Sensitivity at 1 kHz:

-26.6 dB rel 1 V/Racht

The microphone capsule detailed above has been calibrated to the published data as described in the operating manual of the associated sound level meter (where applicable).

The frequency response was measured using an electrostatic actuator in accordance with BS EN 61094-6:2005 with the free-field response derived via standard correction data traceable to a National Measurement Institute.

The absolute sensitivity at 1 kHz was measured using an acoustic calibrator conforming to IEC 60942:2003 Class 1.

Environmental conditions

Pressure:

99.10 kPa

Temperature: 21.0 °C

Humidity:

41.0 %



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CERTIFICATE OF CALIBRATION

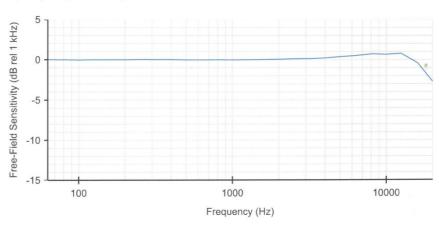
Certificate Number: 128427

Page 2 of 2

Free-Field Frequency Response : Tabular

Frequency (Hz)	Free-Field Sensitivity (dB rel 1 kHz)	Actuator Response (dB)
63	0.03	-0.11
80	0.02	-0.01
100	-0.02	0.03
125	0.01	0.08
160	0.01	0.09
200	0.01	0.10
250	0.06	0.11
315	0.05	0.10
400	0.04	0.10
500	0.00	0.06
630	-0.01	0.06
800	0.02	0.04
1 000	0.00	0.02
1 250	0.01	net 0.00
1 600	0.04	-0.05
2 000	0.08 0117 21	-0.11
2 500	0.130 250	-0.20
3 150	005:110	-0.38
4 000	20,24	-0.62
5 000	cito 100.40	-0.98
6 300	20° 0° 0.54	-1.55
8 000	0.73	-2.50
10 000	0.00 -0.01 0.02 0.00 0.01 0.04 0.08 0.1325 1.01 0.1325	-4.08
12 500	0.79	-5.78
16 000	-0.39	-8.24
20 000	-2.70	-11.93







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AcSoft Calibration

Bedford Technology Park Thurleigh, Bedford, MK44 2YA

U.K

Tel.: +44 (0) 1234 639551 Fax: +44 (0) 1234 639561 Email: sales@svantek.co.uk

www.svantek.co.uk

CALIBRATION CERTIFICATE

Date of issue: 09-08-2018 Certificate No: 14010137-2 Page: 1/7

OBJECT OF CALIBRATION - Sound level meter type SV977, No 36167, manufacturer Svantek with preamplifier type SV12L, No 47685, manufacturer Svantek and microphone type

7052E, No 55967, manufacturer ACO.

APPLICANT NVM Ireland

1st Floor, Unit 13 Boyne Business Park, Brogheda, Co Louth, Ireland

CALIBRATION METHOD

Method described in instruction 1802 "Calibration of the sound level meter", issue number 11 date 27.01.2016, written on the basis of international standard

EN IEC 61672-3:2013Electroscoustics. Part 3: Periodic tests.

ENVIRONMENTAL CONDITIONS

Temperature: (23.8;o0,369) °C

Ambient pressure (\$00.92 - 1002.62) hPa Relative humid (\$0.92 - 1002.62) hPa 09-08-2018 confidence (\$0.92 - 1002.62)

DATE OF CALIBRATION

UNCERTAINTY OF MEASUREMENTS

Uncertainty of measurement has been evaluated in compliance with EA-4/02:2013. The expanded uncertainty assigned corresponds to a coverage

probability of 95 % and the coverage factor k = 2.

CONFORMITY WITH REQUIREMENTS

On the basis of the calibration results, it has been found that, the sound level meter meets metrological requirements specified in the standard IEC 61672-1:2013 Electroacoustics - Sound level meters. Part 1: Specifications, for class 1.

CALIBRATION RESULTS

The sound level meter submitted for testing has successfully completed the Class 1 periodic tests of IEC 61672-3:2013 (BS EN 61672-3:2013), for the environmental conditions under which the tests were performed.

The results are presented on pages 2 to 7 of this certificate (including

measurement uncertainty).

APPROVED BY

B. Hunt

Appendix E Emergency Response Procedure



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Emergency Response Procedure		
Document No. L-DR-ERP Issued by: S. Callaghan		
	Approved by: J O'Hagan	
Issue Date: 8/4/2019	Revision No. 3	

Emergency Response Procedure

Scope: This procedure applies to all emergency situations which may effect the environment

Purpose: To identify any emergency situations which may arise at the facility and provide provisions for minimising the effect on the environment?

Responsibility: Facility Manager (Sean Callaghan), Recycling Manager V and W-Willy Martin Jim Byrne (General Operative)

Procedure:

Emergency situations which may arise are as follows

- Fire.
- Plant breakdown.
- Significant spillages.
- Slope Stability

FIRE RESPONSE PLAN:

Fire in buildings

- Evacuate the site and proceed to the assembly point at the facility entrance ensuring all persons have left including visitors to site.
- Site operative to notify Facility Manager.
- Facility Manager, Recycling facility Manager and General Operative to assess potential risk. If deemed minor incident, on-site personnel to deal with the fire using fire extinguishers and fire blankets.
- If considered a major fire then site staff must evacuate the building and stay out of the building
- In emergency situations site management will dial 999 and request emergency services to attend:

Fire at Drogheda Landfill

- Site management will nominate a member of staff (if present) to direct the Fire Brigade to site.
- Do not re-enter site until the all clear has been issued by fire officer.
- Investigate cause of the fire.
- Management will consider any implications that the fire may have on the ongoing operation of the site.
- Replace any fire extinguishing equipment that may have been used immediately.

Fire in the waste mass

- On discovering a fire, the site operator will notify the Facility Manager
- The fire brigade will be called and someone will direct the fire tenders to the site.
- If it is not considered safe for the site staff to tackle the fire, no action will be taken until the Fire Brigade arrive and direct activities.
- Management will consider any implications that the fire may have on the ongoing operation of the site.

SIGNIFICANT SPILLAGES

- Establish nature of the spill and clean up immediately.
- Dispose the used absorbent materials at the appropriate waste disposal facility.
- Prevent spillage from entering drains.
- Consider implication of spillage in relation to operational procedures at the landfill and take appropriate action.

ACCIDENT OR INJURY

• If an accident or injury happens on site, assistance will be called immediately by dialling 999 and requesting the appropriate emergency service.

Accident at Drogheda Landfill

The First Aid trained member of staff should carry out an initial assessment and initiate appropriate first aid.

If injury is considered to be serious:

- ➤ Call emergency services immediately. Stop all activities at the site.
- > Do not move injured person unless they are in immediate danger.
- > Provide first aid and keep injured person warm and comfortable.

If the injury is not considered not to be serious:

- > Treat injury with items from first aid box.
- Assess the success of the treatment and assess whether further attention is required.
- > Take injured party to hospital or doctor if required.

Slope Stability

- If a slope becomes unstable, cordon off the area and excavate slip material. Do not allow unauthorised personnel or machinery into the area.
- Support the slope with coarse granular fill deposit as a stability berm at the base of the slope.
- Reduce slope height if possible
- Investigate nature of slope failure
- Undertake remedial actions as necessary

EMERGENCY CONTACT NUMBERS:

• Louth County Council (042) 9353130, out of hours 1890

202 303

• Fire Department 999

Fisheries Board (01) 2842600
 Local Garda (042) 9388400

Environmental Protection Agency

(i) EPA Headquarters Wexford (053) 9160600 Fax: (053) 9160699 (ii) EPA Dublin Regional Inspectorate (01) 2680100 Fax: (053) 2680199

(iii) EPA out of hours number for incidents 1890 3355999

NOTIFICATION TO THE EPA

• Notify the Agency by phone, fax (business hours 01 2680199 Out of Hours 053 9160699) and in writing as soon as practicable and in any case not later than 10.00am the following working day after the incident has occurred and also through EDEN.

• Notify the Eastern Regional Fisheries Board by phose and in writing as soon as practicable and in any case not later than 10.00am, the following working day after any incident which relates to discharges to surface water.

• Submit a written report to the Agency within 5 days of the incident. Any further actions taken after the date of notification of the incident, submit a written report of these actions as soon as practicable, no taken than 10 days after the initiation of those actions.

Testing of the procedure

- This procedure shall be tested annually and a record of the testing held onsite. Facility Manager shall determine the appropriate method of testing. Any equipment required to manage an emergency incident is maintained and checked on an annual basis during testing.
- Any areas of concern noted during testing shall be addressed using the Corrective action / Incident notification form.

FIRE RESPONSE

.

AFS Flare - operated by the Council. Maintained by the contractor.

Gas Balancing – being carried out by the council.

In the event of the flare malfunctioning a text message is sent to the contractor and 2 council staff members. Following a period of 12-24 hours if the flare has not been started an external contractor is notified and. An investigation and incident is logged in a timely manner and not closed off until flare becomes operational again. This may be accompanied by gas balancing of the site and checking for any broken pipes and wells. Gas balancing is carried out in accordance with procedure gas well balancing – L-WR-OCP-022-03. The council staff liaises with the contractors for the flare to facilitate a restart of the flare, text messages are received when it has been restarted and can also be viewed remotely. In the scenario of a fire occurring at the facility when managing the

gas balancing and flares, the following procedure is carried out which can also occur in and outside of working hours.

Minor -

- Site operative to notify facility manager
- If of a minor nature, fire will be dealt with by on site staff
- Contractors at flare and engines will be notified of incident
- Flare services contractor will be notified

Major -

- If fire is not of a minor nature all staff and contractors to proceed to fire assembly point
- · Fire services will be notified
- Under advise from fire services the contractors may switch off engine and/or flare as the case may be
- In the case of a sub-surface fires there are a number of warning signs such as smoke smouldering, odour emanating from the gas extraction system, levels of CO > 1000pm and combustion residue e.g. soot in extraction wells.
- EPA will be notified of incidents
- Council to investigate and carry out corrective actions?

Options for Fire Suppression

- Smothering with soil
- Suppression agent
- Temporarily shut down the gas extraction system

Fire Prevention Plan	
Document No. LDR-FPP-02 Issued by: S. Callaghan	
	Approved by: J O'Hagan
Issue Date: 08/04/19	Revision No. 3

Scope: This procedure applies to prevention of fires on the landfill.

Purpose: To identify any potential sources of fire and minimise any risk from them.

Responsibility: Facility Manager (Sean Callaghan), Facility Manager (V&W-Willy Martin)Jim Byrne (General Operative)

Procedure:

Emergency situations which may arise are as follows;

Fire in buildings

Fire in landfill

Fire in buildings

Material stored in building which could be a potential ignition source is minimised.

Out of hours the building has monitored smoke alarm which is linked to the burglar alarm. If the smoke alarm activates a security company respond and will inform the Fire Brigade.

The buildings also have a landfill gas detection alarm.

Fire in the waste mass/underground fire

Risk of fire in the landfill is considered to be limited to the landfill gas collection and flaring system. The flare is manufactured to the ATEX Regulations and is maintained quarterly and where appropriate to keep it in working order.

The only other source of fire is deemed to be malicious starting of fire on the landfill i.e. grass fire. This would have to be started maliciously. Weekly checks of the boundary fence are carried out.

- (i) Site has been capped
- (ii) Pipes and well heads checked for leaks

Gas Leaks

- (i) Gas monitoring detectors are sited in the main office and canteen
- (ii) Mobile gas detectors are used when monitoring of gas quality from wells
- (iii) Peizometers are monitored on a monthly basis to monitor any gas migration.
- (iv) Site checks are carried out for odour
- (v) Engines and flares are serviced on a regular basis
- (vi) VOC monitoring of site

Explosive Atmosphere

Factors which control the explosion potential of landfills

- (i) Concentration of methane in air. If the concentration is between 5-15% there is the potential of explosion
- (ii) Concentration of oxygen in the landfill gas. If the concentration of oxygen is >6%, there is the potential for an explosion. All engines and flares shut down if the oxygen concentration exceeds 5%
- (iii) Presence of an ignition source. Ignition sources are eliminated by the use of spark proof pumps and specialist and fill welding equipment & grinders. There is a no smoking rule at the site halso refer to Louth County Council's Ancillary Health & Safety Statement Appendix 7. Whiteriver landfill, ATEX Explosion Protection Document and Hazardous Area Classification.
- (iv) Flaring reduces the risk of explosion to prevent gas build up.

Signage

Signage is located on site at various locations for example no smoking signs, exit signs and fire assembly points

Employee Behaviour

There is a strict no smoking policy on site. Use of naked flames is prohibited. Use of specialist equipment is by prior permission.

Use of intrinsically safe test equipment

All control panels have been installed and fitted by certified electricians.

- Flare meets the ATEX requirements.
- All equipment used by contractors to be certified.
- All submersible pumps are spark proof.
- On site grinder is certified as spark proof.

All electrical equipment is earthed

Prohibition of uncertified electrical equipment

The use of uncertified equipment on-site is prohibited.

Welding, cutting or other works which may involve sparks or sources of heat/fire/sparks may not be carried out on-site and are subject to a risk assessment and a permit to work from the facility manager.

Gas balancing and fire prevention

The gas balancing and flare procedure is as follows;

Gas balancing

This is carried out by the landfill manager in conjunction with the operator on-site on a minimum of a quarterly basis or when required. The well's are balanced in order to optimise the quantity of methane and oxygen for the flare to operate. The gas balancing is carried out in accordance with documented procedure L-WR-OCP-022-03

In the case where the flare shuts down due to gas levels, breakdown, pipe off, maintenance and/or suction pressure a text alert system is set up to inform the contractor for the engines and three staff members of Louth County Council. The council will attempt flare restart and in other cases contractor may attend the site. Louth County Council liaises with the contractor on this. If the flare is not restarted in a timely manner an incident is logged on Eden. The landfill will be inspected in certain instances to balance gas levels suitable for a flare restart. Pipe work, well heads on manifolds will be checked as appropriate to determine that there are no leaks and/or broken pipes which may impact oxygen levels. Knock out pots and condensate interceptors are inspected on a regular basis to ensure condensate does not build up and impact gas quality and suction pressure. Where appropriate the gas field will be balanced and the Council staff will liaise with flare contractor in order to restart flare.

Gas Balance		
Document No. L-WR-OCP-022-03 Issued by: S. Callaghan		
	Approved by: J O'Hagan	
Issue Date: 03/07/2018	Revision No. 2	

Gas Well Balancing Procedure

Scope: To put in place a system to optimise gas extraction from each gas well

Purpose: To set out the necessary steps to balance the gas wells

Responsibility: Landfill manager / Deputy Landfill Manager

Procedure:

1. Steps to balance gas wells

Part Balancing Using Manifolds Only

Using GA 2000 landfill gas meter or GEM 5000

• First monitor the main gas line at the inlet to the flare

• Then monitor the 6 gas manifolds

Based on these monitoring results i.e. suction pressures, methane concentration and oxygen concentrations a targeted approach can be taken to increasing suction on certain wells.

All manifolds should have at least -10mbar of suction on them. If not this must be investigated. Condensate in the gas lines could be blocking the suction. If the suction is varying up and down by a few millibar this is the most likely cause.

If the oxygen level at the flare is close to 5% then each manifold should be tested to see which area of the site the high oxygen is coming from. Once the area has been identified each well in that area should be tested.

Full balancing - At gas wellheads

Using the GA 2000 or GEM 5000 landfill gas meter monitor each gas well at its wellhead. All gas wells should have negative pressure and low oxygen levels.

Each gas well head shall be monitored at least quarterly or more regularly if manifold monitoring indicates issues in a certain area.

Action levels for landfill gases are;

Gas	High Level	Low Level	Comment
Methane	60%	25%	>60% indicates not enough suction. <25% indicates too much suction or poor capping.
Oxygen	>5%	n/a	Ideally <5% oxygen but in some cases in uncapped areas poor quality gas i.e. 8% oxygen gas can be blended into the main, as long as it does not increase the oxygen at the flare to >5%.
Carbon Dioxide	>40%	n/a 💥	Indicator only
Suction	> -20 mbar	Any positive pressure	Positive pressure indicates gas build up

The valve at each well head should be adjusted slightly up or down depending on the suction pressure and methane and oxygen levels.

If there is no suction the pipe work may be blocked with condensation.

If the suction is varying up and down by a few millibar this is due to condensate in the gas line. The gas line should be traced back to determine where the condensate is accumulating and the falls on the line should be repaired to ensure no condensate builds up.

High oxygen levels indicate poor capping or breaks in pipe work.

Table 1: List of Manifolds

6 in total

Appendix F Hydrogeological Risk Assessment

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Drogheda Landfill Hydrogeological Risk Assessment



Report for: Louth County Council

Date: 12th November 2015

Report No.: BRE12007Rp03F03

BlueRock Environmental Limited

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Site Approval by					N/A

This report supersedes the previous version (*i.e.* Reference BRE14008RpF02, dated 16th February 2015). It also takes into account the request for clarifications from the EPA to Louth County Council (dated 25th August 2015).

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The conclusions and recommendations contained in this report are based upon information provided by others and upon the assumption that all relevant information has been provided by those parties from whom it has been requested and that such information is accurate. Information obtained by BREL has not been independently verified by BREL, unless otherwise stated in the report. Where assessments of works or costs identified in this report are made, such assessments are based upon the information available at the time and where appropriate are subject to further investigations or information which may become available.

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Where field investigations are carried out, these have been restricted to a level of detail required to meet the stated objectives of the services. The results of any measurements taken may vary spatially or with time and further confirmatory measurements should be made after any significant delay in issuing this report.

**Report Teaching Tea

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1 EXECUTIVE SUMMARY

- This report supersedes the earlier version (i.e. Reference BRE14008RpF02, dated 16th February 2015). It also takes into account the request for clarifications from the EPA to Louth County Council (dated 25th August 2015).
- A Hydrogeological Risk Assessment of Drogheda Landfill Site was undertaken by BREL based on previous investigation reports and monitoring data between 2006 and 2014.
- This closed landfill is unlined and contains primarily household, commercial, construction and demolition and industrial non-hazardous solid waste. The site originally operated as a limestone quarry. All quarrying operations ceased in 1979 and water levels were allowed to return to equilibrium on cessation of the reported dewatering activities. The facility subsequently opened as a landfill facility in 1983 (EPA licence W0033-1) for the disposal of household, commercial, construction, demolition and industrial non-hazardous solid waste. The site ceased landfill operations in 1999 and was subsequently capped and developed into open space in 2007. A civic waste facility was opened adjacent to the area of the waste body in 2002 at the site.
- The site lies approximately 600 metres north of the River Boyne which flows in a west-east direction towards the Irish Sea. The site is bounded by agricultural land to the north and west, a former quarry to the northeast and a housing development to the south and southeast.
- The waste material was laid directly upon the exposed limestone bedrock benches of the former quarry and operates under the dilute and disperses principal. Capping of the waste material was undertaken between November 2006 and September 2007. However it was subsequently identified that during waste infilling operations on the landfill site (*i.e.* pre-1999); waste material was mistakenly buried across the northern waste licensed boundary of the landfill. This material was reportedly placed on existing overburden rather than on exposed bedrock benches of the former quarry. No removal or capping of this material has taken place to-date.
- The regionally important bedrock karst aquifer is the only identified aquifer to-date. No perched groundwater has been identified at the site.
- Leachate appears to continue to migrate vertically into the bedrock aquifer in particular areas of the landfill, particularly along the northern boundary of the site. However the hydrochemistry data suggests that there is significant dilution capacity of the contaminants within the bedrock aquifer in addition to the open void downgradient of the waste body.
- Groundwater generally appears to flow across the site in a north to south/southeasterly
 direction. Localised variations were observed in the northern region of the site *i.e.* in the
 vicinity of monitoring well BH1A and monitoring well BH4A. These variations suggest that
 localised flow occurs in a north to northwesterly direction across the northern boundary of the
 site at particular times of the year.
- Water levels within the void suggest that this water body has a controlling influence on groundwater levels in its immediate vicinity. As the open water of the quarry void receives close to 100% of potential recharge, in addition to surface water runoff and groundwater flows from upgradient zones, it appears to be acting as a groundwater mound discharging radially to the surrounding aquifer, during certain periods of the year, and thereby affecting the groundwater flow regime within the immediate area of the site. On other occasions the levels within the void are lower than the surrounding groundwater levels to the west and south. Groundwater flow from the void to the southeast remains relatively constant over time.
- No contaminant fluxes appear to be occurring across the southern and southeastern landfill site boundaries in a downgradient direction. However, uncertainty persists regarding the migration of contaminated fluxes in a north to northwesterly direction across the northern site boundary i.e. in the vicinity of the non-capped waste material. It is also unclear if the detected contaminant concentrations in monitoring boreholes BH4A and BH5A are attributed to leachate migration from the waste body directly into the underlying bedrock aquifer, are being

1

detected due to preferential pathways generated by poor borehole installations or a combination of both.

A previous RPS report (Ref: MDE1008Lt0001D01, dated 4th October 2010) concluded that the monitoring borehole BH5A is not facilitating the vertical migration of contamination to the aquifer based on the assumption that the six metre bentonite seal within the monitoring borehole was installed correctly during the drilling works. If this seal was inappropriately installed, the protection layer may not be fulfilling its requirements and potentially facilitates the migration of leachate to groundwater. In addition, the shallow screen in borehole BH4A may also be facilitating the migration of leachate from the waste body to groundwater.

- The non-capped waste material, in close proximity to boreholes BH4A and BH5Aa, is generating leachate from infiltration (i.e. rainfall) and is potentially impacting on BH4A and BH5A over time.
- The adjacent former quarry site to the east of the landfill was granted permission to undertake infilling of both domestic and commercial waste material in 1984 for a period of 5 years. In addition, permission was also granted in 1992 to infill the quarry void with builder's rubble, limestone & shale material. No domestic waste was permitted. No further information was available during the compilation of this report; however, the potential presence of this material on the adjacent property may potentially be impacting on the elevated concentrations of contaminants on the northern boundary of the Drogheda Landfill site.
- A preliminary Conceptual Site Model (CSM) was initially developed and identified a number of SPR linkages ranging between Low and High. However, following a detailed review of all site data, these risks were reduced to Low and Low to Moderate.
- The main SPR linkage of concern relates to:
- main SPR linkage of concern relates to:

 The migration of leachate to the underlying groundwater body, to the River Boyne and to Drybridge public groundwater supply
- Based on average values of Ammoniacal Nitrogen levels between 2006 and 2014 in the northern region of the landfill, the Tyle of thumb of 100xGTV was regularly exceeded in BH5A throughout the monitoring period of is noted that the levels recorded are reducing over time. Based on the trends observed and assuming this downward trend continues over time at this location, it is predicted that the mean levels will achieve the GTV by the end of 2016 approximately.

Occasionally the 100xGTV rule of thumb was exceeded in BH3A for Ammoniacal Nitrogen. However, the levels recorded in BH3A are generally below the GTV with only the most recent data recording slightly elevated levels.

Isolated exceedances of the 100xGTV was recorded in BH4A for Iron (November 2010), Nickel (August 2010) and Manganese (August 2010). It is unclear if these isolated levels are representative of groundwater conditions considering the significantly lower levels recorded prior to and after these sampling events.

The site is compliant with the "prevent" or "limit" objectives of the WFD and GWD. The prevention of hazardous of substances entering the groundwater system is being met based on available chemical analysis. Limiting the ingress of non-hazardous substances is also being met by the mitigation measures that have been installed to date at the site i.e. landfill capping, the lining of surface water drains and on-going groundwater and surface water monitoring as per the licence requirements.

The following points are noted:

The area of impact from the landfill leachate (i.e. in the northern region of the site) is considered to be minor relative to the groundwater body catchment area of the Drogheda GWB i.e. < 0.01%; Therefore it is unlikely that the status of the GWB or the objectives of the WFD will be affected.

- √ No groundwater plume has been identified todate.
- Consultations with Louth County Council have confirmed that it is intended to complete the
 recommended works, as outlined in Section 11.0, by mid-2017. However, capping of the waste
 outside the boundary remains subject to significant capital budget being made available.
 Completion of the other works/investigations as per Section 11 will be used to prepare a revised
 CSM report to be submitted to the Agency in the third quarter of 2017.
- In summary, <u>based on available site data</u>, the risk posed by Drogheda Landfill to the underlying GWB, the River Boyne and any potential down-gradient groundwater users is considered to be low. A series of once-off measures have been provided to develop a more representative understanding of the risk posed by the landfill and address the identified uncertainties in particular relating to potential fluxes discharging to the north of the site.

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2 INTRODUCTION

2.1 Introduction

The following hydrogeological risk screening exercise is intended to satisfy the requirements of the Environmental Protection Agency (EPA), relating to a closed landfill facility in the townland of Mel, Drogheda, County Louth (EPA licence W0033-01). The licence was amended in June 2013 under Section 42B(1) of the Waste Management Actions 1996 to 2013. The report has been commissioned on foot of an EPA technical amendment to the waste license as per a notification issued by the EPA on 18th June 2013:

"Within eighteen months of the date of this technical amendment, the licensee shall carry out a risk screening and where necessary a technical assessment in accordance with the Guidance on the Authorisation of Discharges to Groundwater, published by the Environmental Protection Agency.

A report on the outcome of the screening and where relevant the recommendations of the technical assessment in relation to the setting of groundwater compliance points and values, shall be included in the next AER.

Any actions required to demonstrate compliance with the European Communities Environmental Objectives (Groundwater) Regulations 2010, as amended shall be agreed by the Agency and implemented before 22nd December 2015. Groundwater monitoring results shall be submitted annually or as required in the Schedules to this license."

It should be noted that this report supersedes the earlier version (i.e. Reference BRE14008RpF02, dated 16th February 2015). It also takes into account the request for clarifications from the EPA to Louth County Council (dated 25th August 2015) and is reported under the new EPA Guideline Template for Hydrogeological Review/Technical Assessment Report.

2.2 Objectives

- To consolidate all available historical reports and geological, hydrogeological and hydrological data relating to the site and its immediate environs;
- To assess and interpret allavailable water quality data recorded to-date;
- To develop an appropriate Conceptual Site Model (CSM) for the site;
- To assess the site's compliance with the Groundwater Regulations (S.I. No. 9 of 2010);
- To assess the level of risk posed to sensitive receptors;
- To develop an appropriate compliance monitoring programme for the site; and,
- · Recommend suitable mitigation measures, if deemed necessary.

2.3 Methodology

This report was prepared in accordance with the following documentation:

- Guidance on the Authorisation of Discharges to Groundwater, EPA, 2011;
- Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (2013),
- Code of Practice Environmental Risk Assessment for Unregulated Waste Disposal Sites, EPA, 2007; and
- Hydrogeological Risk Assessments for Landfills and the Derivation of Groundwater Control and Trigger Levels, Environment Agency, 2003.

2.4 Sources of Information

The following sources of information were reviewed as part of this assessment:

- BREL 2012, Drogheda Landfill Hydrogeological Review.
- Geology of Meath. Bedrock Geology 1:100,000 Scale Map Series, Sheet 13. Geological Survey of Ireland. (McConnell, Phlox, and Geraghty, 2005);
- GSI well and karst database:
- Bedrock and subsoil exposures noted during site visits in 2012 and 2014;
- GSI on-line database:
- Ballymakenny Group Water Scheme Groundwater Source Protection Zone Report, April 2011, Rev A:
- Drybridge Group Water Scheme Groundwater Source Protection Zone Report, P. Conroy, April 2011, Rev D, Draft Report;
- Drogheda Groundwater Body Water Framework Directive Initial GSI, 2004a. Characterisation Summary – 1st Draft. Geological Survey of Ireland;
- Wilkinstown Groundwater Body Water Framework Directive Initial GSI, 2004b. Characterisation Summary – 1st Draft. Geological Survey of Ireland;
- NERDO, 1981. Groundwater Resources in the N.E. (R.D.O.) Region. An Foras Forbartha. Northeast Regional Development Organisation;
- BMA, 1996. Drilling logs for the proposed Northern Motorway. E.I.S., Northern Motorway. Bernard Murphy & Associates;
- GSI, Groundwater Protection Schemes, 1999; and,
- Fitzsimons, V., Daly, D. and Deakin, J., 2003. GSI Guidelines for Assessment and Mapping of Groundwater Vulnerability to Contamination. Draft Report, Geological Survey of Ireland.

All water quality data was supplied to BlueRock Environmental Ltd (BREL) in spreadsheet databases. This report assumes all data provided is accurate in accordance with all historical laboratory

certificates.

2.5 Report Format

This report comprises of an executive summary for chapter 1 and an introductory chapter 2 which discusses sources of information, general objectives of this hydrogeological assessment and a brief overview of historical investigative reports associated with the site.

Chapter 3 discusses the site location, layout and setting.

Chapter 4 includes detailed information on the underlying soils and bedrock.

Chapter 5 is a brief description of the local hydrology, including details of any site specific surface water bodies.

Chapter 6 discusses the hydrogeology of the site and general region, including any boreholes that have been drilled and monitoring wells in place. It discusses historic groundwater levels and flow direction.

Chapter 7 describes briefly the preliminary Source-Path-Receptor model (SPR) for the landfill.

Chapter 8 is comprehensive review of the hydrochemistry monitoring of the site in terms of groundwater, surface water and leachate quality.

Chapters 9 & 10 defines an updated conceptual site model for the landfill using site specific data coupled with the initial SPR model and provides compliance monitoring recommendations.

Chapters 11 & 12 provide recommendations for future monitoring, investigation and/or remediation and report conclusions.

2.6 Review of Previous Reports

There were a limited number of previous investigation reports available for the Drogheda landfill. However a number of supplementary sources of information were also provided and are summarised below.

Report 1: Drogheda Landfill Waste Licence Application documents, 1998.

The documentation provided in this application provides a review of the environmental impacts on the ground and surface water quality and includes groundwater and surface water quality results from this period.

The interpretation of the site data concluded that:

- Groundwater quality at BH4 had been impacted by and likely from landfill leachate
- Water within the quarry did not record any List I. List II substances in the form of Ammonia and Chloride was recorded.
- Slightly elevated levels of Chloride and Ammonia were recorded within groundwater migrating
 off site via fractures in the floor of the southwestern quarry excavation. Elevated List I
 (Cadmium) and a number of List II (metals) were recorded in BH10 which penetrates a karstic
 void. It was concluded that this indicated contaminant migration principally confined to isolated
 fractures rather than widespread across the site.
- The documents conclude that the emissions to groundwater at that time were assessed as not being of a significant extent or pose a risk to the environment. Further monitoring was recommended to confirm this.

Report 2: Assessment of Borehole 5A, RPS Jetter report, Ref: MDE1008Lt0001D01 (draft), 4th October 1998

This document provides an assessment of groundwater monitoring well BH5A in terms of the potential for migration of contamination to the underlying aquifer from the adjacent waste material via the well installation itself. The report concludes that the borehole is not providing a vertical pathway for migration of leachate to the underlying aquifer. This determination was based on the 6 metre bentonite seal reported within the borehole log and the interpreted confining conditions within the well. In addition, the source of the impact is suggested to be from groundwater impacted underlying the waste body that is migrating towards the well.

It is noted that this interpretation assumes that the installation of the bentonite sealed was appropriately installed to provide sufficient protection of the underlying aquifer.

Report 3 Hydrogeological Site Investigation, Glover Site Investigations Lid, Jan/Feb 1998

This investigation comprised the drilling of 10 no. boreholes using a rotary drilling drill rig in January 1998. A 50 mm diameters monitoring wells was installed within each monitoring well and installed with pea gravel and bentonite. Rising head tests were undertaken in a number of the boreholes. Details of the investigation are incorporated into this 2015 Hydrogeological Assessment report.

Report 4: A review of Environmental Impacts on Groundwater and Surface Water Quality, letter report, dated 29th July 1998.

Based on the results recorded at this time, this document provides a review of groundwater and surface water quality at the site. The report concluded that groundwater below and adjacent to the landfill area had been impacted by leachate percolating through the thick unsaturated zone in the rock. Heavy metal concentrations were locally elevated upgradient of the lake. The results also indicate that highly mobile leachate species such as chloride and ammonia were elevated and widespread, and most significantly within the quarry lakes, which represents sumps for surface water runoff and groundwater in the vicinity of the landfill. It was concluded that chloride an ammonia concentrations were substantially diluted in groundwater samples downgradient of the site.

Report 5: Geophysical Survey to Delineate the Extent and Depth of Fill material at Drogheda Landfill, County Louth, BMA Geoservices, June 2005.

The objective of the survey was to outline the likely extent and depth of the fill material at the site. The findings of the survey are included in this 2015 Hydrogeological Risk Assessment report.

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3 SITE DESCRIPTION

3.1 Site Location

Drogheda Landfill is located in the townland of Mel, approximately 600 metres to the north of the River Boyne and to the northwest of Drogheda town.

The site is adjacent to Leonards Cross at the junction of the R168 road to Collon (and there on to the newly constructed M1) and Cement Road, a minor road linking the Slane Road and the N1 primary road northwards from Drogheda to Dundalk.

The site is bounded by agricultural land to the north and west, a former quarry to the northeast and a housing development to the south and southeast.

A site location map is presented as Figure 1.

3.2 Topography

The site generally falls in a north to southwest/south/southeast direction. The highest point is in the northern region of the site at 50.0 mOD. From here the site falls to the southwest along the N51 road at approximately 30.0 mOD and to the south towards the flooded former quarry void. The edges of the void comprise cliff faces at an average height of approximately 19.5 mOD along the northern edge and higher cliffs to the south and west of the void at an average height of 34 mOD.

3.3 Site Layout

The site area is approximately 32 hectares comprising of the historic landfilled waste body and the large partially flooded quarry void to the south of the waste body.

A civic waste facility is currently in operation along the northwestern boundary of the landfill and facilitates recycling and waste transfer. The facility is accessed via an entrance within the civic waste facility.

3.4 Leachate Management

The landfill operates on a dilute and disperse principal where leachate generated by the waste body percolates into the ground and the underlying groundwater body. The landfill cap constructed minimise the effects of rainfall on the volume of leachate being generated. All leachate wells installed at the site have been recorded as dry indicating low levels of perched leachate present within the waste body.

3.5 Site History

The site originally operated as a limestone quarry operated by Irish Cement Ltd. All quarrying operations ceased in 1979 and water levels were allowed to return to equilibrium on cessation of the reported dewatering activities. The facility subsequently opened as a landfill facility in 1983 for the disposal of household, commercial, construction, demolition and industrial non-hazardous solid waste. The site ceased landfill operations in 1999 and was subsequently capped and developed into open space in 2007. A civic waste facility was opened adjacent to the area of the waste body in 2002 at the site

The landfill is unlined and operates on the principle of dilution and dispersion of the leachate generated into the underlying regionally important groundwater limestone aquifer. It is reported that the landfilled material was placed on the exposed bedrock benches of the quarry. Two independent quarry excavations (one to the south and one to the northeast of the landfilling operations) were abandoned during the quarrying works when the water table was intercepted which resulted in flooding of the works. The larger former quarry void is reported to be flooded to a depth of 1.8 metres over an area of approximately 12 hectares. The smaller former quarry void is not part of the existing licensed landfill facility and water levels within this void are currently unknown.

During waste infilling operations on the landfill site (*i.e.* pre-1999), waste material was mistakenly buried across the northern waste licensed boundary of the landfill. This material was reportedly placed on existing overburden rather than on the exposed bedrock benches of the former quarry. No removal or capping of this material has taken place to-date.

The adjacent site to the east, which partially comprises a smaller former quarry void, was granted permission in 1984 to infill a portion of the site with commercial and domestic waste. The location of this buried material is unclear; however anecdotal evidence suggests this occurred in the northern region of this site. Further permission was granted in 1992 to facilitate the infilling of the quarry void with builders rubble, limestone & shale material. No domestic material was permitted for infilling in this area. It is also reported that a cement works facility was historically operated at the site. No further information in relation to the actual infilling activities that took place was available during the compilation of this report.

Preparation works for the capping contract at Drogheda landfill commenced on the 11th September 2006 and the placement of the gas geocomposite commenced on the 20thNovember 2006. All capping operations were completed by the 14thSeptember 2007.

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4 GEOLOGY

4.1 Regional Overburden

Surface cover to the immediate north, east and west of the site is mapped by soils derived from mainly non-calcareous parent material (AminPD). These are generally gravelly sands and silts. A small zone of lacustrine soils or lake sediments is mapped to the northeast of the site. Further east, beyond the racetrack, beach sands and gravels are evident.

4.2 Site Overburden

4.2.1 Subsoils

Most of the overburden was removed during the quarrying activities at the site. However, subsoils surrounding the quarried area of the site (*i.e.* along the northern and western site boundaries) comprise till derived from Lower Palaeozoic shale and sandstones (TLPSsS). Closer to Drogheda and along the Boyne Valley, subsoils are mapped as Irish Sea Till, derived from Irish Sea basin deposits.

Depths of overburden along the boundaries of the landfill waste body range between 0m (in the southern region of the site) and 44 mbgl (borehole BH5A) along the northern boundary of the site (see **Figure 2**). The waste material, as mentioned previously, was placed on the exposed limestone benches of the former quarry site. **Photo 1** illustrates the exposed limestone at the former quarry site.

A drilling programme was undertaken in 1998 with the objective of installing monitoring wells for groundwater monitoring. A summary of the ground conditions encountered is provided in **Table 4.1.**

Description utgo of the state o	Depths (metres below ground level)
Poulder Clay 101 Field	0.3 - 44 m (upgradient)
Boulder Clay ediding	0.0 - 9.0 m (downgradient)
Limestone Bedrock	30.0-52.5 m

Table 4.1 Summary of Ground Conditions

Borehole logs describing the overburden and bedrock geology of the site are provided Appendix A.



Photo 1 View of Exposed Limestone under the waste material

The thickness and depth of this waste material is currently unclear. However, a geophysical survey undertaken by BMA Geoservices in June 2005 suggests a thickness of waste ranging between 5 and 35 mbgl¹. A suggested cross section of the site is provided in **Figure 3** and **Figure 4**.

4.3 Regional Bedrock Geology

According to the GSI Bedrock Geology Map of Ireland the site is underlain by limestone bedrock of Lower Carboniferous age and classified as Dinantian Pure Bedded Limestones of the Tullyallen Formation (TF). Geological mapping records these rocks dipping less than 20 degrees to the south-southwest with an approximate east-west strike. The Tullyallen Formation is bounded to the north by Silurian metasediments and volcanics belonging to the Glaspistol Formation (GF) and to the west by Dinantian pure bedded limestones of the Platin Formation (PT). The limestones have been deformed into a syncline that dips towards the River Boyne.

The bedrock in the region is tectonically juxtaposed by the Slane Fault which trends in an ENE-WSW direction approximately 650 metres to the north of the northern site boundary. Two cross faults are recorded intersecting the Slane Fault, trending in a NNW – SSE direction – one approximately 700 metres west of the site and the second approximately 1200 metres east of the site. The cross fault to the west throws the Tullyallen Formation against the stratigraphically younger Glaspistol Formation (see Figure 3).

4.4 Site Geology

Depths to bedrock recorded within existing monitoring boreholes at the site range between 0 and 44 mbgl. Exposed limestone is evident at the landfill cliff edges surrounding the flooded former quarry void. The bedrock walls show strong vertical jointing and incorporate clay-infilled collapse structures and solution cavities.

An historical borehole, drilled in 1998 along the southern boundary of the site (*i.e.* borehole BH10), recorded a 6m water filled void 27m below the sortage. The width and extent of this karst feature is unknown.

Borehole logs from the surrounding area also record significantly developed karstification. Two trial boreholes drilled in Mell townland through the Tullyallen and Yellowbatter limestone formations (penetrating to 72 and 54.7 metres deep) showed cavities accounting for approximately 10% of the total rock penetration (NERDO, 1981). Both the geological log and the caliper log of the 1979 drilling work at borehole PWSBH01 at Drybridge(to the west of the landfill site) show substantial karstification, including fissure zones at 15 m, 25 m and at 40 mbgl (NERDO, 1981). The three fissures intersected were filled with unconsolidated material. In addition, borehole records from the site investigation for the M1 Northern Motorway recorded cavities/fissures with vertical depths of up to 3 metres (BMA, 1996).

Depths to bedrock were recorded by both boreholes and a Geophysical Survey undertaken by BMA Geoservices in June 2005. Levels recorded ranged between 10 and 30 mOD.

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¹mbgl = metres below ground level

5 HYDROLOGY

5.1 Regional Hydrology

The site is within the catchment of the river Boyne with surface water in this area generally draining from the high ground southwards towards the River Boyne which is located approximately $\underline{8600}$ metres south of the landfill portion of the site. The river flows in a west-east direction towards the Irish Sea. A stream, named as Drybridge stream for this report, flows in a north-south direction approximately 450 metres to the west of the site.

The River Boyne is estuarine immediately downgradient of the site with tidal flows dominant.

5.2 Site Hydrology

Surface water runoff from the site all flows radially across the waste body to the surface water drainage across the site before discharging into the quarry lake at the site.

5.3 Surface Water Framework Directive Status

The River Boyne (EU Waterbody code: IE_NW_39_2205) has been assigned an overall quality status of 'Moderate' as per the EPA website. It has been assigned an overall risk status of 1a, *i.e.* 'At Risk of Not Achieving Good Status'. The stretch of the river downgradient of the landfill is tidal and considered to be a transitional water body.

Continuation of the landfill is tidal and considered to be a transitional water body.

Continuation of the landfill is tidal and considered to be a transitional water body.

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Continuation of the landfill is tidal and considered to be a transitional water body.

6 HYDROGEOLOGY

6.1 Aquifer Classification

The GSI has classified the underlying bedrock aquifer as a regionally important karstified aquifer (Rkd) dominated by diffuse flow. The site is located within the Drogheda Urban Groundwater Body (GWB) which has been classified as being of "Good" status. The groundwater body descriptions are available from the GSI website: www.gsi.ie and the 'status' is obtained from the Water Framework Directive website: www.wfdireland.ie/maps.html.

An interpretative water level contour map from the NERDO (1981) report is presented in **Appendix B**. The 10 mAOD contour runs approximately east to west to the north of the site suggesting groundwater flows generally in a north to south direction and ultimately provides baseflow to the Boyne River or springs in the area. The map also records a water level of 8 mOD within the flooded quarry void. It is unclear if dewatering activities that were undertaken at the quarry at this time significantly influenced the water level in the quarry and surrounding area at this time. An interpretative regional cross-section, which was adapted from Conroy (2011), is presented as **Figure 3**. A Glover Site Investigation, undertaken at the site in 1998, records a level within the void at 4.2 mOD; however it is unclear if this level represents the floor of the void or the water level present at this time.

The limestones in the area are generally considered to have a moderate to good secondary permeability and joints and fissures are likely to have been enlarged by the solution of limestone. The permeability of these features may have been reduced somewhat by the infilling with Quaternary (*i.e.* sands, silts and clays) deposits over time.

The nature of groundwater flow in the area is dependent on the degree of karstification of the limestone. Where limestone is heavily karstified, groundwater generally flows within a small number of enlarged conduits. However, in areas where karstification is not prevalent, groundwater generally flows through a series of connected fractures, fissures and joints.

As discussed in **Section 4.2**, exposed limestone is evident along the cliff faces of the flooded former quarry void in the southern region of the site. The bedrock walls show strong vertical jointing and incorporate clay-infilled collapse structures and solution cavities. The conduits and fissures are typically expected to be orientated nother northwest to south-southeast, which are in line with the jointing and fault zones of the bedrock which facilitate the karst development. Aquifer transmissivity is also expected to be highest in this direction.

The aquifers within the Drogheda Urban GWB are generally unconfined but localised confining conditions have been reported in areas of low permeability and thicker overburden. Flow is typically reported at depths within the upper 30 metres of the weathered bedrock horizons or via connected underlying fractured zones (GSI, 2004a). Deeper water strikes can also be encountered at deeper depths within isolated fractures or faults.

Hydrogeological characteristics of karstified limestones are considered to be highly heterogeneous by their nature. Conduit flow, when encountered, can have a significant impact on the hydrogeological regime of the area. The hydraulic properties vary depending on the limestone lithology, degree of bedding, structural history and position within the regional groundwater flow system (Drew, 2002). Significant variations in hydrological behaviour are common as each part of this aquifer has its own distinct characteristics *i.e.* void size, frequency and arrangement. Therefore significant variations in water levels can occur over small areas particularly if the boreholes have intersected separate conduits or fracture zones that are not hydraulically connected. In this environment, flow directions are often but not necessarily perpendicular to interpreted water table contours.

In general the regional groundwater flow across the site will be towards the River Boyne, but the karstified nature of the bedrock means that local groundwater flow directions can be highly variable during varying climatic conditions.

6.2 Groundwater Vulnerability

Groundwater vulnerability is dictated by the nature and thickness of the material overlying the uppermost groundwater. This means that vulnerability relates to the permeability and thickness of the subsoils. A detailed description of the groundwater vulnerability categories can be found in the Groundwater Protection Schemes document (DELG/EPA/GSI, 1999) and in the draft GSI Guidelines for Assessment and Mapping of Groundwater Vulnerability to Contamination (Fitzsimons et al, 2003). A draft groundwater vulnerability map for Co. Louth has been developed by the GSI. The vulnerability rating for the site, given the exposed bedrock, is classified as **extreme vulnerability**.

6.3 Background Groundwater Quality

Background groundwater quality for the region has been sourced from the Drogheda GWB. The bedrock is calcareous with a calcium bicarbonate hydrochemical signature. Typical reported electrical conductivity values range from 550 to 650 μ S/cm with Moderately Hard to Very Hard waters and Alkalinity values of 150 to 350 mg/l.

6.4 Source Protection Areas

Drybridge PWS borehole is located approximately 950 metres west of the centre of the landfill site and Ballmakenny GWS is located approximately 2km to the north east of the site. Both water supplies have been delineated with outer source protection zones (see **Appendix C**).

6.5 Rainfall

Average monthly gridded rainfall data was sourced from Met Eireann (Walsh, 2012) and is presented in **Table 6.1.**

J	F	M	Α	M	J	1979	E _{CC} A	S	0	N	D	Annual
89	63	70	59	60	69	62,630 ₆	77	74	88	88	90	891

Table 6.1 Long term mean monthly rainfall data (mm) (Met Éireann)

The closest synoptic station to the site is at Clones, 58 km to the northwest of the site, where average potential evapotranspiration (PE) is 438 mm/yr. This value is used as a best estimate of the site PE. Actual evapotranspiration (AE) is estimated by multiplying PE by 0.95, to allow for the reduction in evapotranspiration during periods when a soil moisture deficit is present (Water Framework Directive, 2004). Actual evapotranspiration is therefore 416 mm yr⁻¹ (0.95 PE).

The Effective Rainfall (ER) for the site is determined from:

ER =
$$AAR - AE$$

= $891 \text{ mm yr}^{-1} - 416 \text{ mm yr}^{-1}$
ER = 475 mm yr^{-1}

The capped area of landfill is $101,650 \text{ m}^2$. Infiltration in restored areas is in the range 2-10% of effective rainfall. This equates to a potential leachate volume of $966 - 4,828 \text{ m}^3/\text{yr}$.

6.6 Groundwater WFD Status

Work completed for the Water Framework Directive has assigned 'Status' to surface waters and groundwater (www.wfdireland.ie - watermaps). The Drogheda Urban GWB (EU code: IE_EA_G_029) has been assigned an overall quality status of 'Poor'. It has been given a risk status of **1a**, *i.e.* 'At Risk' of not achieving good status.

6.7 Sensitive Receptors / Designated Protected Areas

A number of groundwater wells have been recorded on the GSI and Louth County Council on-line data base to the south and southeast of the site. Information regarding these wells was not available at the time of compiling this report; however, water quality results provided by Louth County Council indicate that all water quality parameters were recorded below the Drinking Water Limits when previously sampled.

Additional groundwater wells were also recorded to the northwest of the site by Louth County Council (*i.e.* within Lavin Park development). Chemical levels of E-coli and Copper were historically recorded above the drinking water limits at these locations.

Drybridge PWS (Public Water Supply) borehole is located approximately 950 metres west of the site and Ballmakenny GWS (Ground Water Supply) is located approximately 2km to the north east of the site. Both sources recorded levels similar to regional background levels. Neither PWS is considered to be directly downgradient of the landfill site nor is the landfill within the source protection zone for each water supply.

The Rivet Boyne, located approximately 1km south of the centre of the waste body flows in an east to west direction to the Irish Sea. The river is estuarine and tidal immediately downgradient of the landfill and is considered a Special Area of Conservation (SAC). The following habitats and/.or species listed on Annex I/II of the EU habitats Directive are outlined below:

- Alkaline Fens
- Alluvial Forests
- River Lamprey
- Atlantic Salmon
- Otter

6.8 Groundwater Monitoring Wells

As mentioned previously, ten groundwater monitoring boreholes were installed in 1998 at the landfill facility to provide a groundwater monitoring network for the site. These monitoring boreholes were subsequently replaced with new monitoring boreholes in 2001 and were located in close proximity to each of the original boreholes. The 1998 monitoring boreholes were labelled as BH1, BH2, BH3....BH10 and the 2001 monitoring boreholes labelled as BH1A, BH2A, BH3A....BH09A, BH10A. An additional monitoring borehole, BH11A, was subsequently drilled at the site in 2001 and located along the southeastern boundary of the waste body. All borehole logs are provided in **Appendix A.**

The locations of the monitoring boreholes were selected based on anticipated regional groundwater flow directions of the area (*i.e.* north to south towards the River Boyne). Boreholes BH1A, BH2A, BH4A were considered to be upgradient of the waste body and boreholes BH3A, BH6A, BH8A, BH9A, BH10A and BH11A considered as intermediate and downgradient locations.

Five leachate monitoring wells were historically installed within the waste body (*i.e.* L1A to L5A). Monitoring of these wells has consistently recorded dry conditions, which suggests low levels of leachate contained within the waste body.

Table 6.2 summarises the borehole logs from the 2001 drilling programme.

ID	Borehole logs ID	Top Level of Borehole (mOD)	Depth to Bedrock (mbgl)	Bedrock Level (mOD)	Depth (m)	Description
BH1A	1RB	31.95	28.00	3.95	35.5	Boulder clay (overburden) to 28m then moderately strong grey fine grained carboniferous limestone
BH2A	2RB	32.36	8.50	23.86	50	Boulder clay (overburden) to 8.50m then moderately strong grey fine grained carboniferous limestone
внза	3RB	33.66	9.00	24.66	52.5	Boulder clay (overburden) to 9m then moderately strong grey fine grained carboniferous limestone
BH4A	BH4A	33.57	21.50	12.07	31.5	Clay to 21.5m then limestone.
BH5A	5RB	36.13	44.00	-7.87	48.5	Boulder clay (overburden) to 44m then moderately strong grey fine grained carboniferous limestone
BH6A	6RB	35.95	1.00	34.95	42.5	Boulder clay (overburden) to 1m then moderately strong grey fine grained carboniferous limestone
ВН7А	7RB	25.17	0.30	24.87	30	Boulder clay (overburden) to 0.30m then moderately strong grey fine grained carboniferous limestone
BH8A	8RB	36.15	2.70	33.45	45 . 155	Boulder clay (overburden) to 2.70m then moderately strong grey fine grained carboniferous limestone
BH9A	9RB	34.35	2.00	32.35	45	Boulder clay (overburden) to 2m then moderately strong grey fine grained carboniferous limestone
BH10A	BH10A	32.78	0.00	32, 78 red	40	slightly weathered grey fine grained limestone
BH11A	11RB	21.72	0.50	32,78 red 32,000 red 200 red 2	30	Boulder clay (overburden) to 0.50m then moderately strong grey fine grained carboniferous limestone

Table 6.2 Summary data acquired from site investigation works 2001

The drilling programme revealed heterogeneous lithological profile beneath the site and is summarised as follows:

- Depths of overburden across the site range between 0 metres (in the southern region of the site with the exposed former quarry void) and 44 metres (borehole BH5A) to the north of the site. The overburden is logged as boulder clay typically comprising brown and grey gravelly sandy CLAY with occasional cobbles.
- Waste material was reported to have been placed directly upon the exposed limestone benches of the former quarry during landfilling operations. Thickness of this waste is currently unclear; however a geophysical report undertaken in 2005 reported waste material ranging between 5 and 35 mbgl.
- Slightly weathered limestone was recorded on borehole logs BH4A and BH10A.
- Depth to bedrock varies across the site but typically fall towards the open void. Bedrock levels
 to the south of the void increases in a southerly direction. Significant variations in bedrock
 levels were identified in the northern region of the landfill which may be related to historical
 quarrying in the area and/or due to natural variations of the limestone bedrock.

6.9 Groundwater Levels & Flow Direction

Groundwater levels have been recorded on a monthly basis as part of the groundwater monitoring programme. Monthly groundwater level data was available for the period January 2006 and February 2014 and is presented and graphed in **Appendix D**. Monthly rainfall data was also sourced from Met

Éireann. Minimum and maximum data recorded during this period are presented in **Table 6.3** and groundwater level trends over time are provided in **Graph 6.1** and **Graph 6.2**. Interpreted groundwater contours and flow direction over time are also included in **Appendix D**.

The following was noted from all data collated:

- No bedrock fracturing or encountered fissuring was recorded within the borehole logs with the
 exception of borehole BH10. The void encountered at this location is typical of highly karstified
 limestone bedrock.
- The majority of groundwater levels recorded were significantly above the original depth of water strike during the drilling works and the installed well screens which suggests pressurised and confining conditions across much of the site see **Table 6.3**. A thick layer of low permeability boulder clays were recorded within the northern monitoring boreholes ranging in thickness between 8.5 and 44 metres. This clay and the thick unsaturated limestone are likely to contribute to the partially confining conditions recorded in this area.
- Recorded water levels suggest that groundwater is (a) flowing within a large permeable body
 of limestone rock with significant interconnected fissures and joints or (b) within a series of
 partially connected enlarged conduits in localised areas or (c) a combination of both the latter
 being most likely.

Borehole	Water Wate Sorehole Strike Strike (mbgl) (mOD		Lowest Recorded Water Level (mOD)	Highest Recorded Water Level (mOD)	Variation ౢ° (m)	Well screen interval (mOD)	
BH1A	32.1	-0.70	4.05	16.85	12.80	2.45 to -3.55	
BH2A	38.0	-6.00	1.96	& 17 .46	15.5	12.36 to -17.64	
внза	49.4	-16.22	3.76	112.16	8.40	1.15 to -18.84	
BH4A	-	-	5.17 jon	19.07	13.90	32.07 to 2.07	
BH5A	45.0	-9.27	6.03	13.83	7.80	-6.37 to - 12.37	
BH6A	40.25	-4.73	<\5,35°	11.45	6.10	26.45 to -6.55	
BH7A	15.0	9.81	1 0.37	20.9	10.53	16.17 to -4.83	
BH8A	42.75	-6.92	ent 5.15	9.9	4.75	8.65 to -9.35	
BH9A	45.0	-10.940	5.24	11.2	5.96	20.35 to -12.66	
BH10A	-	-	4.78	12.58	7.80	26.78 to -7.22	
BH11A	27.0	-5.58	5.62	12.62	7.0	6.72 to -8.29	

mbgl = metres below ground level

mOD = metres to Ordnance Datum

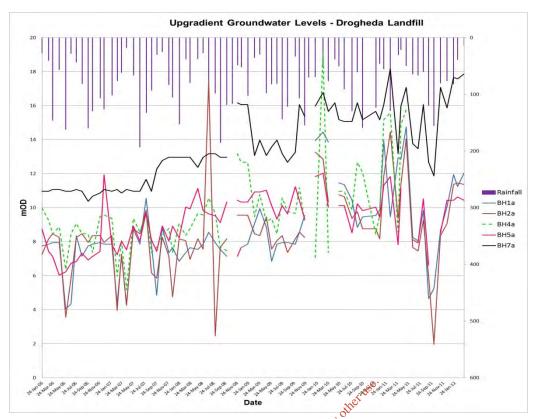
Table 6.3 Water Levels and Borehole Details

- Groundwater levels vary significantly over time with the greatest variation recorded within BH 4A (*i.e.* 13.9 metres) and the lowest variation within BH8A (*i.e.* 4.75 metres). The variations are typically a product of recharge (*i.e.* diffuse and/or point infiltration) and groundwater flow mechanisms in karst limestone aquifers and where variations in pressure heads and water levels within conduits, due to variations in climatic and geological conditions, can cause changes to groundwater flow regimes.
- The highest groundwater levels recorded within the upgradient wells were recorded on the 12th February 2013 and 18th February 2014 (see **Graph 6.1**). The highest groundwater levels recorded within the downgradient wells were recorded during similar periods in addition to the 10th May 2011 (see **Graph 6.2**). It is noted that water levels within the upgradient monitoring wells appear to be broadly rising over time with levels within the downgradient remaining relatively consistent.
- The lowest groundwater levels recorded within the upgradient wells were recorded on the 30th May 2006 and the 4th October 2011. The lowest levels within the downgradient wells were recorded on the 27th July 2010.

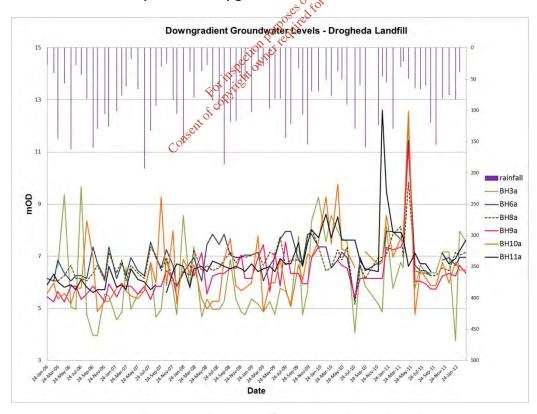
• Groundwater flow directions were assessed on 11 separate occasions between 2010 and 2014 (*i.e.* 23rd February 2010, 18th May 2010, 10th May 2011, 6th September 2011, 4th October 2011, 7th February 2012, 13th March 2012, 6th June 2012, 6th November 2012, 12th February 2013, 18th February 2014).

Groundwater contour maps were developed for each of the selected dates and are presented in **Appendix D**.

- The contour maps suggest that groundwater generally flows across the site in a north to south/southeasterly direction. Localised variations were observed in the northern region of the site *i.e.* in the vicinity of monitoring wells BH1A and BH4A.
 - Groundwater in the northwestern region of the site is locally interpreted to flow in a northwesterly direction towards BH1A at certain times of the year only (*i.e.* September 2011, and February 2012). Water levels within BH4A record a consistent low point in this region which suggests localised flow towards this area throughout the year. This would suggest that groundwater potentially flows in a north to northwesterly direction across the northern boundary of the site in this area of the site.
- Monthly rainfall data was sourced from Met Éireann between Jan 2006 and Mar 2014 for the Drogheda area. The rain gauge data was sourced from the Togher Rain Gauge station to the northwest of Drogheda town. The data confirms the variable nature of the hydrogeological regime in response to rainfall events.
- Water level data for the open void were reviewed where available. The levels indicate that the void has a controlling influence on groundwater levels. As the open water of the quarry receives close to 100% of potential recharge, in addition to surface water runoff and groundwater flows from upgradient zones, during certain periods of the year it appears to be acting as a groundwater mound discharging radially to the surrounding aquifer, thereby affecting the groundwater flow regime within the introduction and the site.
 - Water levels within boreholes BH6A, BH8A, BH9A and BH11A, which are located in close proximity to the void, do not appear to vary significantly over time in comparison to the northern boundary boreholes. At particular times of the year, the void discharges water in a westerly, southwesterly, southerly and southeasterly direction. On other occasions, it appears to receive groundwater from the west and south and discharges in a southeasterly direction. Correlation of the mound effects with seasonal and rainfall events have been not identified with the available data.
- Water levels have not been recorded within the smaller flooded former quarry void to the
 northeast of the site todate and the hydraulic connection between groundwater levels within
 borehole BH7A and the smaller void is unclear. This void may also be influencing groundwater
 levels in its vicinity with groundwater levels within BH07A consistently higher than groundwater
 levels in its proximity.
- The hydraulic gradient beneath the site ranges between approximately 0.0004 m/m to 0.012 m/m closer to the quarry void. It is likely to be influenced by the void particularly during high groundwater level periods
- All leachate wells on site were recorded as dry. It is unclear if this relates to the installation of the wells or if leachate levels are lower than the wells installed.
- Given the variability of groundwater levels and interpreted groundwater flow directions in the northern region of the site and the proximity of the waste body to these wells, it appears that the monitoring wells along the northern boundary of the site *i.e.* BH1A, BH2A, BH4A and BH5A do not fully represent upgradient conditions. It appears that BH1A and BH2A are upgradient of the waste body at particular times of the year and possibly downgradient at other times. In addition, the locations of BH4A and BH5A appear to be too close to the waste body to be representative of upgradient conditions.



Graph 6.1 Upgradient Groundwater Levels



Graph 6.2 Downgradient Groundwater Levels

6.10 Permeability

Permeabilities of the limestone bedrock identified within historical boreholes at the landfill site following completion of K-testing in 1998 are as follows:

Borehole	Horizon	Permeability (m/sec)	Permeability (m/day)	
вн3	Limestone Bedrock	1.2 x 10 ⁻⁶	0.13	
BH4	Limestone Bedrock	2.2 x 10 ⁻⁵	1.9	
BH7	Limestone Bedrock	7.3 x 10 ⁻⁶	0.63	
ВН9	Limestone Bedrock	2.1 x 10 ⁻⁷	0.018	

Table 6.4 Permeability Levels of the Limestone Bedrock



7 PRELIMINARY S-P-R

A conceptual understanding of the hydrogeological regime across Drogheda Landfill is provided in **Figure 4** and illustrates a single groundwater body within the bedrock and within the overburden in the northwestern region of the site. Groundwater within the bedrock is likely to be providing baseflow to the open quarry void within the site boundary.

It is unclear if groundwater intersects the unlined waste cells at particular times of the year as the depth of the base of the waste is unclear. However, based available groundwater level information and current knowledge of the historical quarrying activities at the site, groundwater is likely to be lower than the base of the waste throughout the year.

The impact assessment is guided by the source-pathway-receptor (S-P-R) model. The S-P-R model is used to identify the sources of water and potential contaminants, the environmental assets affected by such, and the pathways by which water and contaminants reach those receptors. **Table 7.1** shows the preliminary S-P-R which will be refined as the assessment evolves and more information is acquired.

Sources	Pathways	Receptors	Risk
Lagabata	Leachate vertical migration to groundwater	Drogheda Groundwater Body	High
Leachate	Groundwater	Downgradient Groundwater	High
	Groundwater	Kiver Boyne	Low

Table 7.1 Preliminary S-P-R

It is noted that although Drybridge PWS is not considered to be directly downgradient of the landfill site, the potential variations in groundwater flow at particular ties of the site suggest that the PWS may be partially downgradient of the landfill and is considered as a conservative measure

8 HYDROCHEMISTRY

Hydrochemical data was acquired from reports as referenced in **Section 2.4.** In addition, a detailed water monitoring database between 2006 and 2014 was reviewed.

Interpretations are provided on the assumption that values significantly outside the normal range are invalid.

In order to identify temporal trends, groundwater quality was graphed over time for the selection of parameters for which data had been collected between January 2006 and January 2014 (see **Appendix E**).

Groundwater and surface water monitoring points used to analyse water quality at various locations and depths are shown in **Figure 2**. Schedule F of the waste licence requires the monitoring of certain parameters on either a monthly, quarterly or annual basis as shown in **Table 8.1**.

Monitoring Frequency	BH1A, BH4A, BH6A, BH9A, BH10A, BH11A	BH2A, BH3A, BH5A, BH7A, BH8A
Monthly	Visual Inspection and Odour, Groundwater Level, Ammoniacal Nitrogen, Chloride, Cadmium, Chromium, Electrical Conductivity, pH, Temperature, Iron, Lead, Manganese, Potassium, Sodium, Barium, Nickel, Nitrate, Nitrite, Phenol, Zinc	Groundwater Level, Ammoniacal Nitrogen, Electrical Conductivity, pH, Temperature
Quarterly	Dissolved Oxygen, Total Suspended of Solids, TOM, TOC, TOTAL Zinc of Control C	Visual Inspection and Odour, Chloride, Dissolved Oxygen, Cadmium, Chromium, Iron, Lead, Manganese, Potassium, Sodium, TON, TOC, Barium, Nickel, Nitrate, Nitrite, Phenol
Annually	Boron, Calcium, Copper, Cyanide, Fluoride, Magnesium, Mercury, Sulphate, Total Alkalinity, Total Phosphorous, Residues on Evaporation, Faecal Coliforms, Total Coliforms List I & II substances monitored biannually from BH10, annually from other boreholes	Boron, Calcium, Copper, Cyanide, Fluoride, Magnesium, Mercury, Sulphate, Total Alkalinity, Total Phosphorous, Residues on Evaporation, Zinc, Faecal Coliforms, Total Coliforms

Table 8.1 Monitoring Schedule

8.1 Human Health & Environmental Risk Assessment Framework

Groundwater concentrations were compared to the 2010 Groundwater Regulations Guideline Trigger Value (i.e. GTV) in addition to the Environmental Protection Agency Interim Guideline Values (IGV) for Groundwater as presented in EPA interim report "Towards Setting Guideline Values for the Protection of Groundwater in Ireland" 2002. The IGVs have been selected on the basis of the lowest of either the drinking water standards, historical environmental quality standards for surface water or GSI trigger values and are therefore highly conservative and protective of all groundwater receptors.

There are currently no published generic assessment criteria for groundwater derived specifically to be protective of human health via direct contact. However it can be assumed that if water is considered safe for human consumption then there are no risks from direct contact. The 2007 Drinking Water Regulations were utilised for this purpose.

All surface water levels have been compared to the 2009 Surface Water Regulations. There are currently no site-specific contaminant trigger levels in place at Drogheda Landfill.

8.2 Leachate Quality

No chemical data is available for the leachate present within the waste body. For the purposes of this report, typical leachate compositions were considered based on the EPA Landfill Manual Landfill Site Design (2000).

8.3 Groundwater Quality

Groundwater monitoring is carried out in monitoring boreholes BH1a to BH11a. The screened section within each of these wells is within the bedrock strata with the exception of monitoring wells BH04A and BH05A, which are screened across both overburden and bedrock. There was little consideration given to the possibility of a perched aquifer by the well installation; however, this is unlikely to be present since the capping measures completed in 2007.

Groundwater samples were collected on a monthly and quarterly basis by the EPA. The suite of Consent of copy analysis includes:

- Alkalinity;
- Ammonia as N;
- Metals (Ba, Cd, Cr, Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Zn);
- Calcium, Chloride, Cyanide, Fluoride, Nitrite, ORP, Sulphate;
- Chemical Oxygen Demand;
- Dissolved Oxygen, Electrical Conductivity, pH;
- Faecal & Total Coliforms:
- Phenols:
- Total Organic Carbon; and,
- Total Organic Nitrogen

A summary of all the laboratory results is presented in Appendix E. The period of results reviewed for this report ranged between January 2006 and December 2014. This 8 year period encompasses the period during and following completion of the capping works at the site and is considered an appropriate time period for this assessment. However from a water quality trend perspective, the period of 2007 (i.e. post capping) to 2014 was assessed.

Water samples were collected from all eleven monitoring boreholes and four locations within the flooded quarry void. A summary and interpretation of the results is provided below. It should be noted that water within the former quarry void is considered to be groundwater that has been impacted by rainfall quality. Electrical Conductivity readings from this water body are consistent with groundwater rather than surface water.

8.3.1 Ammonia

Consistently elevated concentrations of Ammonia were recorded in monitoring borehole **BH5A** ranging between 0.03 and 18.3 mg/l N throughout the monitoring period. These levels have been reducing over time with concentrations since April 2013 less than 3 mg/l; however they remain above the GTV threshold levels. Elevated concentrations of Ammonia were detected in borehole BH7A ranging between 0.03 and 10.37 mg/l N. The elevated concentrations are occasional only and no elevated concentrations have been recorded since April 2012 (see **Graph 8.1**). The EPA IGV for Ammonia as N is 0.15 mg/l and the 2010 Regulations for Ammoniacal Nitrogen as N is 0.175 mg/l.

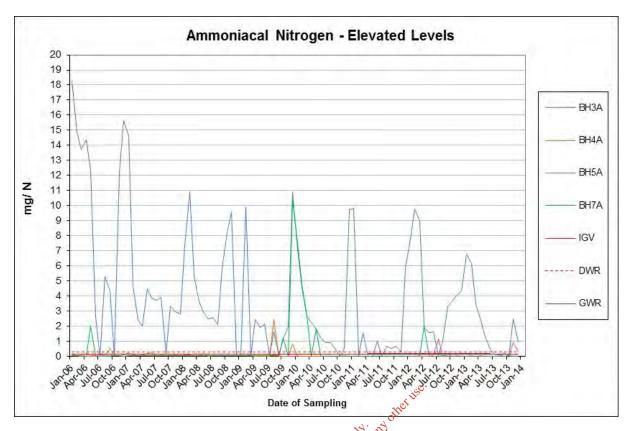
Exceedances of the Ammonia GTV were occasionally recorded within borehole **BH3A** in July 2012 and December 2013 ranging between 0.9 and 1.17 mg/l N and within **BH4A** in August 2009 (2.45 mg/l) and December 2009 (0.82 mg/l). These detections are also occasional only and not consistent over time. The exceedances in BH3A represent a recent increase in levels and on-going monitoring is recommended to ascertain the persistency over time.

One exceedance of Ammonia greater than the 2010 Groundwater Regulations was recorded in borehole **BH10A** (*i.e.* 0.9 mg/l in July 2006) and in borehole **BH11A** (*i.e.* 0.2 mg/l July 2006). No exceedances at these locations have been recorded since (see **Graph 8.2**).

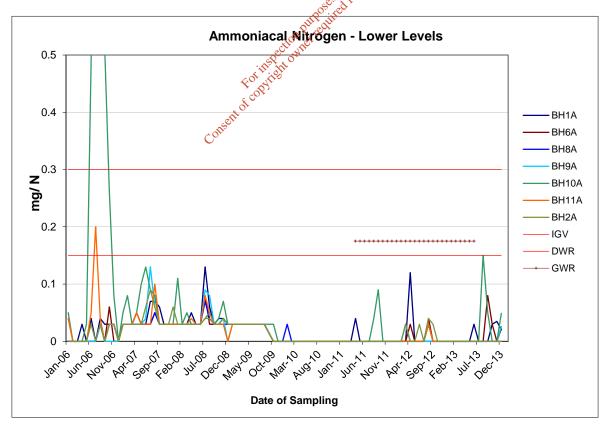
No elevated concentrations of Ammonia were recorded in the remaining boreholes across the site.

Occasional and slightly elevated Ammonia levels within the open void have been recorded above the 2010 Groundwater Regulations (see **Graph 8.3**). The concentrations recorded range between 0.03 and 0.5 mg/l with the highest levels recorded in **SW1** and **SW2** in January 2007. The remaining slightly elevated concentrations were recorded in **SW3** and **SW5**. The most recent elevated concentration was recorded at **SW3** only (*i.e.* 0.23 mg/l October 2013) with the remaining locations all below the threshold levels during the same period.

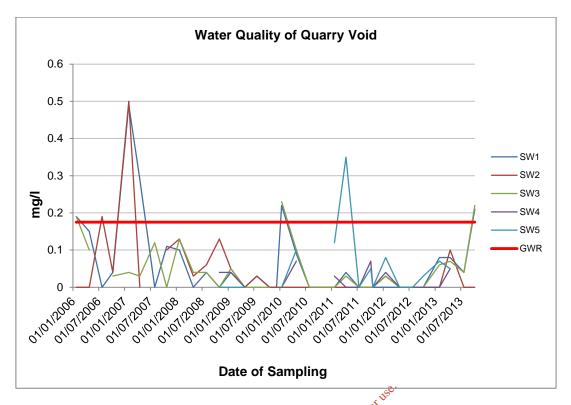
In summary, the Ammonia concentrations have significantly reduced over time with occasionally slightly elevated concentrations being detected. Elevated levels were consistently noted in BH5A with only recent detected elevated levels recorded in BH3A. No correlation with rainfall events was observed. Ammonia concentrations are significantly higher in the northern region of the site in proximity to the waste body in comparison to the locations to the south of the waste body. No notable impact to the water within the former quarry void has been recorded to-date. In addition, no notable flux of Ammonia is evident discharging downgradient from the site to the south and southwest of the open void.



Graph 8.1 Ammonia - Higher Concentrations



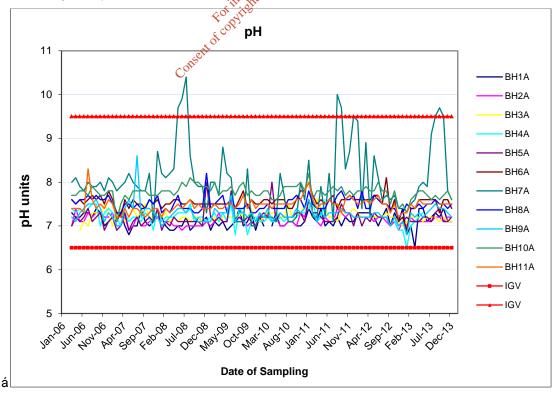
Graph 8.2 Ammonia - Lower Concentrations



Graph 8.3 Ammonia Concentrations in Void

8.3.2 pH

The pH levels typically ranged between the 6.5-2.5 pH threshold range (see **Graph 8.4**). Elevated levels of pH were recorded within borehole **BH7A** ranging between 9.7 and 10.4 (the highest level was recorded in July 2008).



Graph 8.4 pH Levels

Given the proximity of BH7A to the adjacent former quarry and the historical cement works at this site, the elevated levels of pH in this area may be attributed to the historical workings on this site.

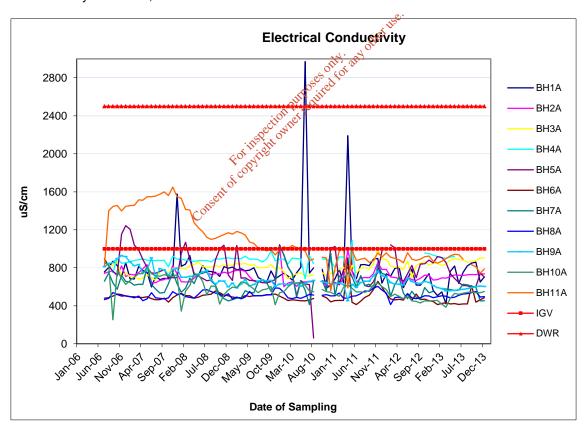
8.3.3 Electrical Conductivity (EC)

All EC levels were recorded below the IGV value of 1,000 μ S/cm throughout the monitoring period with the exception of boreholes **BH1A**, **BH4A**, **BH5A** and **BH11A** (see **Graph 8.5**). The elevated concentrations within **BH1A** were recorded on three separate occasions only ranging between 1,577 and 2,970 μ S/cm. The remaining detections in BH1A were recorded consistently below the guideline levels. Levels recorded within **BH5A** were occasionally above the IGV guideline level ranging between 1,025 and 1,244 μ S/cm in 2006 but have since reduced below the guideline values.

A minor elevated detection within borehole **BH4A** was recorded in May 2011 (*i.e.* 1,090 μ S/cm). No further elevated levels were recorded since. Elevated levels recorded within **BH11A** were initially recorded at 1,402 μ S/cm in 2006 before gradually reducing to below the IGV concentrations of 1,000 μ S/cm in June 2010. No exceedance has been recorded since and the concentrations continue to reduce further over time.

No elevated EC levels were recorded in the remaining upgradient or downgradient monitoring boreholes.

In summary, the EC levels recorded suggest an historical impact from the waste body within **BH5A** and **BH11A** only. However, no elevated levels have been recorded across the site since March 2012.



Graph 8.5 Electrical Conductivity Levels

8.3.4 Manganese

Elevated and highly variable concentrations of Manganese were frequently recorded in monitoring boreholes **BH4A** (ranging between 93.6 and 101,679 μ g/l) and **BH5A** (ranging between 96.1 and 986.0 μ g/l) throughout the monitoring period (see **Graph 8.6** and **Graph 8.7**). It is noted that concentrations within BH4A dramatically reduced from 2011 and are currently and consistently below threshold levels. Elevated concentrations of Manganese were also recorded in borehole **BH10A**

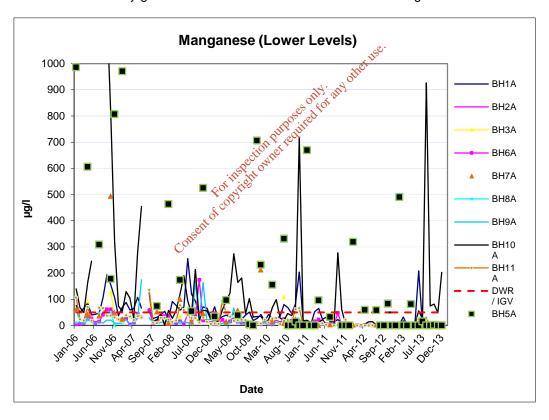
ranging to a maximum of 1,357 in July 2006 and are frequently recorded above the EPA IGV of 50 μ g/l.

Background concentrations of Manganese in the general region are generally less than the EPA IGV (Drybridge and Ballymakenny SPZ reports, 2011).

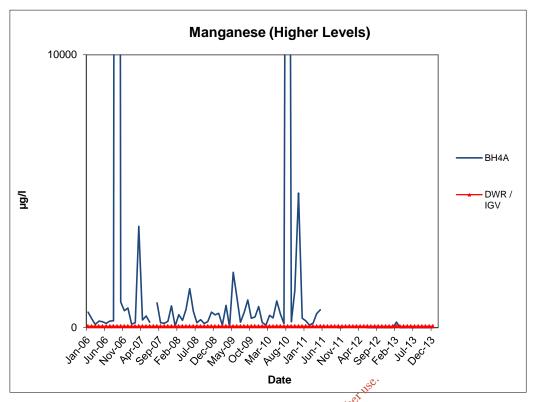
Slightly elevated concentrations of Manganese were recorded at **BH1A** (ranging between 52.4 and 255.1 μ g/l) and a single elevated concentration at **BH3A** (109.5 μ g/l – July 2010) and **BH7A** (212 January 2010).

Occasionally elevated concentrations of Manganese were recorded within the former flooded quarry void in **SW1** (63.0 and 56 μ g/l in April 2010 and October 2013 respectively) and **SW3** (65.7 and 65.8 in April 2010 and October 2013 respectively). No additional elevated concentrations were recorded in the flooded quarry void water samples.

In summary, elevated concentrations of Manganese were observed within the northern region of the landfill with significantly reduced levels downgradient and within the former quarry void. The levels generally appear to be reducing over time within BH10A. The levels within BH5A have reduced over time but remain significantly above the IGV. The elevated levels recorded in BH4A and BH5A suggest an impact by landfill leachate; however it is unclear as to the source of the elevated levels in BH10A. A natural source is most likely given the low levels detected in the surrounding boreholes.



Graph 8.6 Manganese - Lower Concentrations



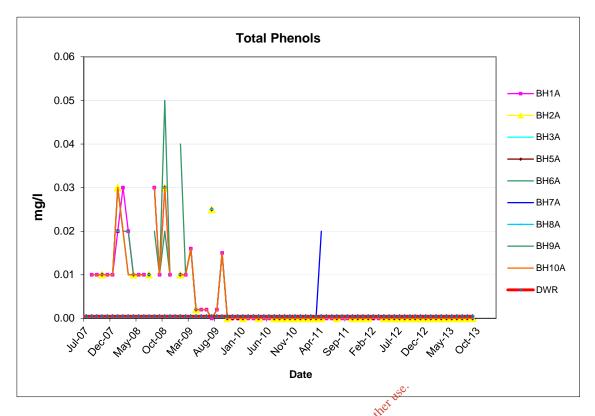
Graph 8.7 Manganese - Higher Concentrations

8.3.5 Phenol

A single elevated concentration of Total Phenologia recorded in borehole BH11A (7.5 mg/l in August 2013). No other detections similar to this level were recorded in any borehole and the level is considered to be erroneous. In addition, enveloped level of 1.12 mg/l was recorded in BH4A. Similarly, this level is considered to be efforeous and has not been detected before or since.

Slightly elevated concentrations were instorically recorded within boreholes BH06A, BH07A, BH08A and BH10A. However the concentrations have reduced to below detection concentrations since 2011.

It is noted that the IGV for Total Phenol is 0.0005mg/l which is below the current laboratory limits of detection for phenol. Future analysis should ensure that the limits of detection are reported at or below the EPA IGV.

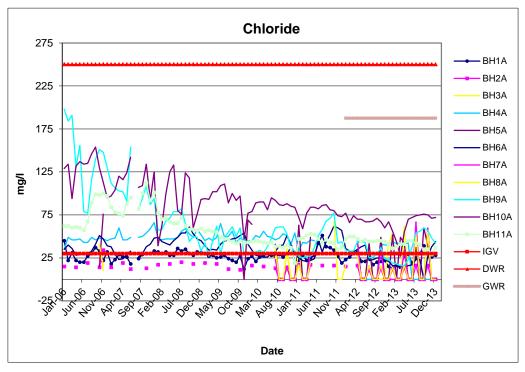


Phenol Concentrations Graph 8.6

8.3.6 Chloride

Concentrations of Chloride recorded within the monitoring boreholes across the site were typically recorded below the 2010 Groundwater Regulation level of 187.5 mg/l. A slight exceedance was recorded in borehole **BH09A** in 2006 (i.e. mg/l) and slightly lower concentrations recorded in BH10A (i.e. 154 mg/l in September 2006) However no exceedances have been recorded within all monitoring boreholes since.

Since completion of the capping works in 2007, all monitoring locations with slightly elevated concentrations of chloride (i.e. above the EPA IGV only of 30 mg/l) generally demonstrate a downward trend over time. The remaining locations demonstrate concentrations typical of background concentrations with no evidence of an impact from landfill leachate.



Graph 8.7 Chloride - Higher Concentrations

8.3.7 Iron

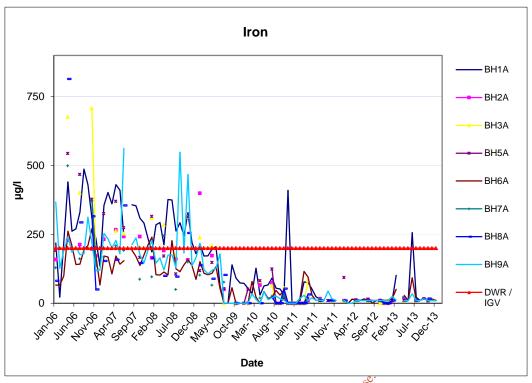
Elevated concentrations of Iron were recorded in monitoring borehole **BH4A** (ranging between 202 and 38,498 μ g/l) throughout the monitoring period with no exceedance of the threshold levels recorded since February 2013 (*i.e.* 202 μ g/l) – see **Graph 8.9** and **Graph 8.9**. The IGV for Iron is 200 μ g/l.

Slightly elevated concentrations of Iron were recorded within the <u>northern</u> upgradient monitoring boreholes **BH01A** (max of 487.5 μ g/l), **BH2A** (max of 399.9 μ g/l) and within downgradient monitoring boreholes **BH03A** (max of 707.6 μ g/l), **BH09A** (max of 563.1 μ g/l), **BH10A** (max of 2,464.5 μ g/l) and **BH11A** (max of 1,081.9 μ g/l). No elevated concentrations of iron were recorded within the remaining wells – see **Graph 8.8**.

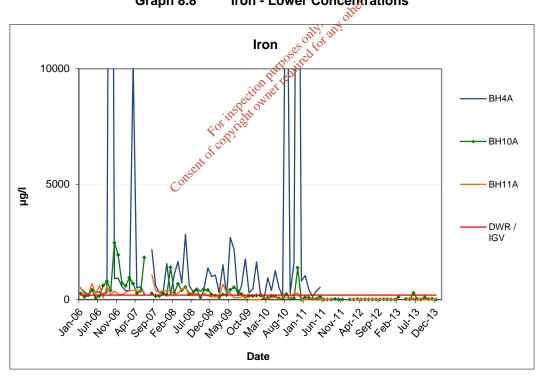
All detections of Iron have significantly reduced over time with the only recent slight exceedances recorded in boreholes **BH01A** and **BH10A** in June 2013 (*i.e.* 256.8 and 287.2 µg/l respectively).

No exceedances of the IGV was recorded from the samples collected from the former quarry void throughout the monitoring period with the exception of a small number of isolated exceedances *i.e.* SW2 (617.9 µg/l in October 2006), SW3 (253.6 in October 2006) and SW4 (385.6 in January 2009).

In summary, the presence of elevated levels of Iron in BH4A pre-2013 suggests an impact from the waste body or from a possible upgradient source at this time.



Graph 8.8 Iron - Lower Concentrations



Graph 8.9 Iron - Higher Concentrations

8.3.8 Faecal Coliforms

Faecal Coliforms were frequently recorded above the EPA IGV on occasions when chemically analysed. The levels ranged between 2 and 250 no. per 100 ml within the upgradient monitoring boreholes and between 7 and 18 no. per 100 ml within the downgradient monitoring boreholes.

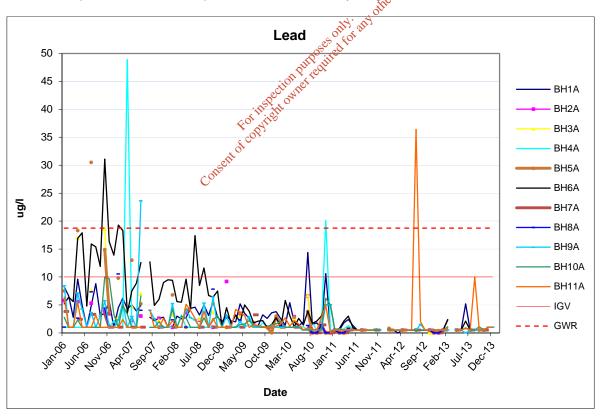
These levels, when detected, are not considered to be resultant from the landfill waste body but likely to be from surrounding region. Faecal coliforms are typically detected in regions with high to extreme vulnerability and in the vicinity of intensive agricultural use and septic tanks.

8.3.9 Lead

Occasionally elevated concentrations of Lead above the 2010 Groundwater Regulations (*i.e.* 18.75 μ g/l) and the EPA IGV (10 μ g/l) were recorded within monitoring boreholes **BH4A** (48.9 μ g/l March 07, 20.1 μ g/l Nov 2010), **BH6A** (31.1 μ g/l, Oct 2006) and **BH11A** (36.4 μ g/l, July 12). A single elevated level of lead was recorded within **BH5A** (30.5 μ g/l, July 06) and **BH9A** (23.6, June 2007) – see **Graph 8.10.** No detections of lead were recorded above the threshold since 2012.

No detections of Lead were recorded above threshold levels in any water sample from the landfill site void.

The concentrations recorded within **BH6A** display an obvious downward trend since 2006. This is likely to be attributed to the construction of the landfill cap. The elevated concentrations recorded within the remaining monitoring boreholes are considered to be occasional occurrences and not considered representative of an impact from the waste body on groundwater conditions over time.



Graph 8.10 Lead Concentrations

8.3.10 Potassium

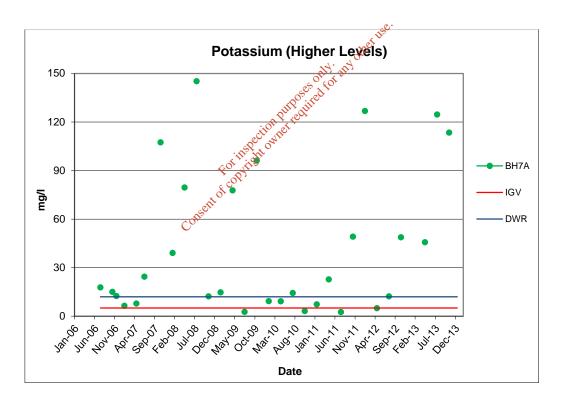
Elevated concentrations of potassium were consistently recorded in boreholes **BH3A** (between 16.9 and 29.2 mg/l), **BH7A** (ranging between 7.2 and 145 mg/l) and **BH11A** (ranging between 13.4 and 34.7 mg/l). The EPA IGV for potassium is 5 mg/l and the drinking water standard is 12 mg/l.

Occasionally elevated concentrations of potassium were recorded within **BH5A** (ranging between 12.51 and 18.89 mg/l) and **BH10A** (ranging between 12.39 and 17.22 mg/l). A single exceedance was recorded within **BH2A** in November 2006 (29.9 mg/l).

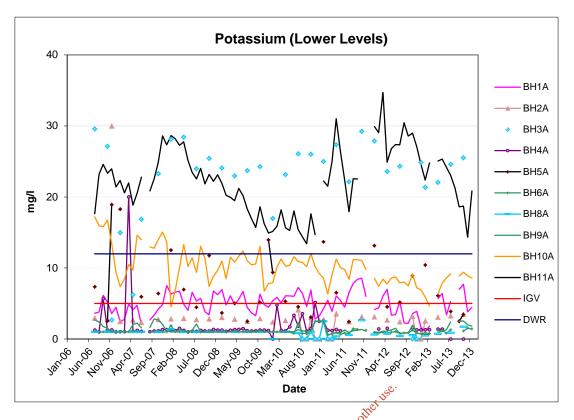
The slightly elevated concentrations of potassium recorded within **BH10A** in 2006 have reduced steadily over time and are now consistently below the drinking water standard (although remaining above the EPA IGV).

Potassium concentrations from water samples collected from the open void were frequently recorded above the threshold values with no discernible downward trend. The concentrations within SW1, SW2 and SW3 are generally higher than SW4 and SW5.

In summary, the concentrations of potassium recorded appear to be attributable to background levels rather than impacts from the landfill waste body. No obvious downward trend in concentrations at these locations was observed with the exception of BH10A and BH11A (see **Graph 8.12**).



Graph 8.11 Potassium - Higher Concentrations



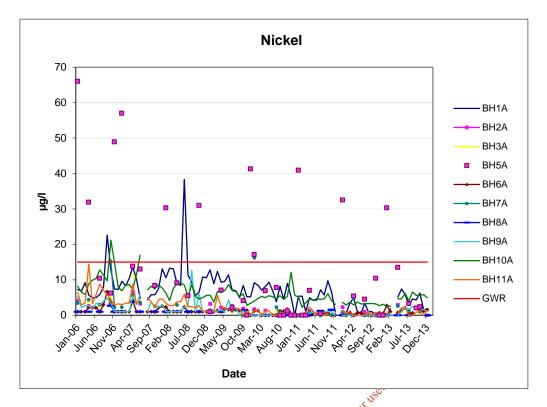
Graph 8.12 Potassium - Lower Concentrations

8.3.11 Nickel

All concentrations of Nickel were recorded below the 2010 Groundwater Regulation threshold of 15 mg/l with the exception of monitoring borefiote's BH4A and BH5A (see Graph 8.13). Elevated concentrations ranged between 15.4 and 12,882 µg/l in BH4A and significantly lower exceedances ranging between 17.1 and 66 μg/l in BH5 No exceedances of Nickel have been detected n BH4A since 2011.

Minor exceedances of nickel within boreholes BH01A and BH10A in 2006 and early 2007 were recorded; however no exceedances have been recorded to-date at these locations nor within the remaining boreholes across the remainder of the site. No detections of Nickel above the threshold concentrations were recorded within samples collected from the former quarry void.

The levels detected suggest a possible impact of the waste body on the underlying groundwater body in the northern region of the site with no obvious elevated flux of nickel discharging from the site.



Graph 8.13 Nickel- Lower Congentrations

8.3.12 Barium

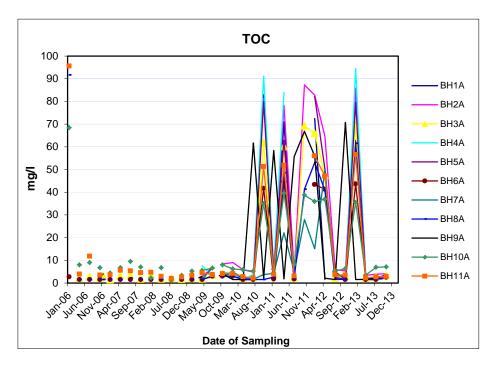
All concentrations of Barium with the landfill monitoring boreholes were recorded below the EPA IGV guideline value of 100 mg/l with the exception of BH4A. Elevated concentrations were recorded ranging between 125.3 and 8,635.5 µg/l were recorded in borehole BH4A ranging between 127.8 and 4662.3 µg/l; however, no exceedance of the barium guideline values have occurred at this location since 2010.

8.3.13 Total Organic Carbon

Total Organic Carbon (TOC) concentrations are useful indicators of natural organic matter in addition to contamination by organic compounds above background levels.

TOC concentrations within the monitoring boreholes were typically recorded less than 12 mg/l during the early monitoring periods between 2002 and 2010 (with the exception of elevated levels recorded in January 2006 ranging up to 95.6 mg/l within **BH11A**).

A sudden and marked increase in levels within all boreholes were recorded from April 2010 to April 2013 (see **Graph 8.14**) before returning to levels less than 10 mg/l/ (*i.e.* background levels). The source of this increase is unclear but may be related to a combination of landfill settlement effects or upgradient impacts from agricultural activities.



Graph 8.14 TOC Concentrations

8.3.14 Other Parameters

No detections of **Zinc or Mercury** above the EPA IGV were recorded in any monitoring throughout the monitoring period.

Monitoring for Hydrocarbons and Volatile Organic Compounds (VOCs) was undertaken within selected monitoring wells in between 2009 and 2014.

Analysis for Total and speciated Polycyclic Aromatic Hydrocarbons (PAHs) were below laboratory limits of detection *i.e.* 0.2 µg/l and 0.1 µg/L espectively. Pesticide, Herbicide and semi Volatile Organic Compound parameters were analysed in **BH1A** in April 2013. The results were either below the IGV for those comparable or were below the lower detection limit for the analytical methodology used analysis.

VOC compounds were recorded below the IGVs for those comparable or were below the lower detection limit for the analytical methodology used throughout the monitoring period; although two VOC parameters were detected above the laboratory detection limit in **BH1A** and **BH4A** in 2013. There are no drinking water drinking water standards in Ireland for these substances and the levels detected are considered to be very low.

- BH1A 1,2,4-Trimethylbenzene 0.2 μg/l
- BH4A Styrene 0.1 μg/l

8.4 Water Quality Discussion

The following observations have been made based on the groundwater quality trends over time.

- The water level and water quality data suggests that monitoring boreholes BH1A and BH2A
 are located upgradient of the landfill <u>at particular times of the year</u> and occasionally partially
 downgradient during other periods. Boreholes BH4A and BH5A are not considered to be truly
 upgradient due to their proximity to the waste body.
- Groundwater quality data across the site suggests that monitoring boreholes BH4A and BH5A have been somewhat impacted from leachate generated from the waste body indicator parameters include Ammonia, Manganese (BH5A only), Iron (BH4A only) and to a lesser extent Nickel. The impact is more evident from historical chemical data; however the concentrations over time, in particular Ammonia concentrations, demonstrate a downward trend which suggests the impact of the landfill in this area is reducing over time.
- Monitoring boreholes BH3A and BH11A are the only boreholes located immediately downgradient from the waste body and partially upgradient of the former quarry void. The only elevated parameters of concern at BH11A relate to Iron and Potassium. No detections of Ammonia were detected at this location. BH3A recorded very occasional exceedances of Ammonia and consistently elevated levels of Potassium. The exceedances in BH3A represent a recent increase in levels and on-going monitoring is recommended to ascertain the persistency over time.
- Since completion of the capping works in 2007, all monitoring locations recorded Chloride concentrations below the GTV of 187.5 mg/l. A small number of boreholes recorded Chloride concentrations above the EPA IGV of 30 mg/l; however reducing trends have been noted since completion of the capping works.
- No detections of PAHs, sVOCs or VOCs were recorded within the monitoring boreholes across the site since 2009. Minor isolated detections of 1,2,4-Trimethylbenzene (0.2 μg/l) and Styrene (0.1 μg/l) were detected in monitoring boreholes BH1A, BH9A and BH11A and former quarry void sample SW1 in 2013. These detections have not been recorded since or prior to this period. Detections of c-1,2 Dishloromethane (0.6 μg/l) was detected within monitoring borehole BH4A in 2013 only.
- Downgradient monitoring boreholes to the south of the flooded former quarry void do not
 indicate a notable impact from the waste body. In addition, water samples from within the
 former quarry void also do not indicate a notable impact from the landfill.

UPDATED HYDROGEOLOGICAL CONCEPTUAL MODEL

The preliminary source-pathway-receptor approach is now revisited to facilitate a hydrogeological conceptual model of the site. A cross-sectional profile of the site is presented in Figure 3 and Figure

9.1 **Source Areas**

- The strength of the raw leachate present within the waste body has not been recorded due to the dry conditions within the leachate monitoring wells. However, it is expected that any leachate within this waste body is of a moderate strength with reducing strength occurring over time as the waste biodegrades.
- No Hazardous substances as per the EPA Classification of Hazardous and Non-Hazardous substances in groundwater (2010) were detected at the site;
- Non-Hazardous Substances detected include:
 - Ammoniacal Nitrogen.
 - Nickel

The original landfill waste body has been fully capped with an engineered liner and therefore the generation of leachate is primarily from the degradation of the waste body itself rather than the effect of rainfall ingress. The recently deposited waste to the north of the main waste body has not been capped todate and leachate generation is likely to be elevated in this location due to rainfall ingress to the waste material. Groundwater across the entire site does not appear to interact with the waste body thereby further minimising the generation of leachate over time.

9.2 Pathways

- Pathways

 The hydrogeological regime across Drogneda Landfill comprises two groundwater bodies (i.e. one likely within the waste body and a separate groundwater body within the underlying bedrock that are likely to be hydravically connected. The amount of leachate present within the waste body is unclear as all leachate wells are recorded as dry. This may indicate that very low levels of leachate are present within the waste and/or any leachate generated migrates vertically and directly into the underlying bedrock aquifer.
- Given the presence and construction the landfill cap, it is not anticipated that a horizontal pathway of leachate to the open former quarry void is present at the site.
- Groundwater generally appears to flow across the site in a north to south/southeasterly direction. Localised variations were observed in the northern region of the site i.e. in the vicinity of monitoring boreholes BH1A and BH4A. These variations suggest that localised flow occurs in a north to northwesterly direction across the northern boundary of the site at particular times of the year. In addition, localised variations to the south of the open former quarry void are also noted on particular occasions. The latter variation appears to be dependant on the water level within the open void which may act as a groundwater mound at particular times of the year.

9.3 Receptors

The key potential environmental receptors that could be impacted by the presence of the contaminant source on the site are Drogheda GWB and the River Boyne. Drybridge PWS is located to the west of the site and is not considered to be immediately downgradient of the landfill site. However, given the uncertainty relating the groundwater flow in the northwestern region of the site, this receptor is conservatively assumed to be potentially at risk for the purposes of this report.

9.4 Assessment of Current Groundwater Impacts & Extent of Plumes

Based on average values of Ammoniacal Nitrogen levels between 2006 and 2014 in the northern region of the landfill, the rule of thumb of 100xGTV was regularly exceeded in BH5A throughout the monitoring period. The last two rounds of monitoring provided recorded 10,457 and 568 times the GTV for Ammoniacal Nitrogen. It is noted that the levels recorded are reducing over time. Based on the trends observed and assuming this downward trend continues over time at this location, it is predicted that the mean Ammoniacal Nitrogen level will achieve the GTV by the end of 2016 approximately. As mentioned previously, the source of the impact to BH5A is likely due to the immediate proximity to the waste body and the potential ingress of leachate via the monitoring well installation.

Occasionally the 100xGTV rule of thumb was exceeded in **BH3A** for Ammoniacal Nitrogen with the last two rounds of monitoring recording 514 and 194 times the GTV. However, the levels recorded in BH3A over the monitoring period are typically below the GTV with only the most recent data recording slightly elevated levels.

No exceedance of the 100xGTV for Ammoniacal Nitrogen was recorded since April 2012 within the remaining monitoring wells. Before April 2012, the next recorded isolated exceedance was May 2010.

Isolated exceedances of the 100xGTV was recorded in **BH4A** for Iron (November 2010), Nickel (August 2010) and Manganese (August 2010). It is unclear if these isolated levels are representative of groundwater conditions considering the significantly lower levels recorded prior to and after these sampling events.

The prevention of hazardous of substances entering the groundwater system is being maintained. Limiting the ingress of non-hazardous substances is being met by the mitigation measures that have been installed to date at the site.

The following points are noted:

- The area of impact from the landfill leachate (i.e. in the northern region of the site) is considered to be minor relative to the groundwater body catchment area of the Drogheda GWB i.e. < 0.01%; Therefore it is unlikely that the status of the GWB or the objectives of the WFD will be affected.
- No groundwater plume has been identified todate at the site.

The preliminary source-pathway-receptor approach can now be revisited to outline a hydrogeological conceptual model of the site.

9.5 Updated S-P-R – Risk Screening

The impact assessment is guided by the source-pathway-receptor (S-P-R) model. The S-P-R model is used to identify the sources of water and potential contaminants, the environmental assets affected by such, and the pathways by which water and contaminants reach those receptors. **Table 9.1** summarises an update to the preliminary SPR linkages identified in **Table 7.1** for the landfill.

Sources	Pathways	Receptors	Risk	
Leachate	Leachate vertical migration to groundwater	Drogheda Groundwater Body	Low to Moderate	
	Groundwater	Воду		
	Groundwater	River Boyne	Low	
	Leachate vertical migration to groundwater	Downgradient Groundwater Users	Low	

Table 9.1 Updated S-P-R

10 COMPLIANCE MONITORING

Discharge activities subject to Tier 2/3 assessments must undertake compliance monitoring to verify predicted impact and check compliance with terms of the authorisation. Compliance monitoring dictates that receptor-based water quality standards (or threshold values) should not be exceeded at receptor locations. For this reason sampling is conducted to monitor water quality at receptors, as appropriate.

10.1 Compliance Monitoring Locations

A compliance point is the point (location, depth) at which a compliance value should be met. Generally it is represented by a borehole or monitoring well from which representative groundwater samples can be obtained. In this case, the aim is to monitor groundwater downgradient of the waste body.

The existing upgradient and downgradient monitoring wells are considered, in the main, to provide appropriate downgradient compliance monitoring locations. Additional monitoring wells have been recommended to replace BH4A and BH5A and decommission the existing installations on site. Also, additional wells in the northwestern region of the facility area are recommended to attempt and ascertain groundwater flow direction in this area and identify any plume from the general area of BH5A.

10.2 Compliance Values

A compliance value is the concentration of a substance and associated compliance regime that, when not exceeded at the compliance point will prevent pollution and/or achieve water quality objectives at the receptor. In this case, the aim is to protect groundwater quality to minimize any risk posed to downgradient receptors such as the Drogheda GWB and to a lesser extent the River Boyne.

The general chemical assessment test identifies groundwater bodies where widespread deterioration in quality has, or will, compromise strategic use of groundwater for existing or planned, human consumption and/or other potential purposes. Schedule 5 of the Groundwater Regulations (SI 9 of 2010) lists Threshold Values for selected parameters that are indicative of potential pollution events when exceeded. Where significant and sustained upward trends are identified, correcting action must be taken.

Based on the recorded groundwater quality data todate at Drogheda Landfill, there are **no sustained upward trends in groundwater contaminant export from the site**. In addition, all parameters when detected above the GTV are significantly below the 100xGTV rule of thumb with the exception of BH5A and to a lesser extent BH3A. These localised exceedances are not likely to affect the WFD status of the groundwater body or the WFD objectives.

Given the existing relatively good groundwater quality both upgradient and downgradient of the landfill, with the exception of localised impacts at BH4A, BH5A and to a lesser extent at BH3A, it is proposed to assign compliance values based on a combination of the existing 2010 GTVs, EPA IGVs and 2 x standard deviation levels of the mean values since 2007 (*i.e.* post landfill capping). Exceedance of these compliance levels (see **Table 10.2**) warrants further assessment. Any exceedances should also be considered in conjunction with a trend analysis of the data to ascertain increasing levels over time. Levels below these compliance values in addition to downward or stable trends confirm that the impact or risk of the landfill on groundwater and surface waters is acceptable.

The existing frequency of monitoring as detailed in **Table 10.1** is considered suitable going forward.

	Current Monitoring		Proposed Monitoring			
Monitoring Frequency	BH1A, BH4A, BH6A, BH9A, BH10A, BH11A	BH2A, BH3A, BH5A, BH7A, BH8A	SW1, SW2, SW3, SW4 and SW5	BH1A, BH2A, BH3A, BH4A (replace), BH5A (replace), BH7A, BH11A	BH6A, BH8A, BH9A, BH10A, BH11A	SW1, SW2, SW3, SW4 and SW5
Weekly	-	-	Visual Inspection			
Monthly	Visual Inspection and Odour, Groundwater Level, Ammoniacal Nitrogen, Chloride, Cadmium, Chromium, Electrical Conductivity, pH, Temperature, Iron, Lead, Manganese, Potassium, Sodium, Barium, Nickel, Nitrate, Nitrite, Phenol, Zinc	Groundwater Level, Ammoniacal Nitrogen, Electrical Conductivity, pH, Temperature		towner required for any other use.		-
Quarterly	Dissolved Oxygen, Total Suspended Solids, TON, TOC, Zinc	Visual Inspection and Odour, Chloride, Dissolved Oxygen, Cadmium,	Ammoniacal Nitrogen, BOD, COD, Chloride, Dissolved Oxygen. Electrical Conductivity, pH, Total Suspended	BH1A, BH4A, BH5A & BH10A only Visual Inspection and Odour, Groundwater Level, Ammoniacal Nitrogen, Electrical	BH10A only Visual Inspection and Odour, Groundwater Level, Ammoniacal Nitrogen, Electrical Conductivity, pH, Temperature Chloride,	Visual Inspection, Ammoniacal Nitrogen, BOD, COD, Chloride, Dissolved Oxygen. Electrical Conductivity, pH,

	Current Monitoring		Proposed Monitoring			
Monitoring Frequency	BH1A, BH4A, BH6A, BH9A, BH10A, BH11A	BH2A, BH3A, BH5A, BH7A, BH8A	SW1, SW2, SW3, SW4 and SW5	BH1A, BH2A, BH3A, BH4A (replace), BH5A (replace), BH7A, BH11A	BH6A, BH8A, BH9A, BH10A, BH11A	SW1, SW2, SW3, SW4 and SW5
		Chromium, Iron, Lead, Manganese, Potassium, Sodium, TON, TOC, Barium, Nickel, Nitrate, Nitrite, Phenol	Solids, Temperature., Cadmium, Total Chromium, Iron, Lead, Potassium, Total Phosphorus, Barium, Nickel, Nitrate, Nitrite, Phenol.	Conductivity, pH, Temperature, Chloride, Dissolved Oxygen, Cadmium, Chromium, Iron, 4-ead, Manganese, Potassium, Sodium, TON, TON, Nitrate, Nitrite, Phenol.	Dissolved Oxygen, Cadmium, Chromium, Iron, Lead, Manganese, Potassium, Sodium, TON, TOC, Barium, Nickel, Nitrate, Nitrite, Phenol,	Total Suspended Solids, Temperature, Cadmium, Total Chromium, Iron, Lead, Potassium, Total Phosphorus, Barium, Nickel, Nitrate, Nitrite, Phenol.
Biannually	List I & II (BH10 only)	-	Consent of coopyring	BH2A, BH3A, BH7A only Visual Inspection and Odour, Groundwater Level, Ammoniacal Nitrogen, Electrical Conductivity, pH, Temperature, Chloride, Dissolved Oxygen, Cadmium, Chromium, Iron, Lead, Manganese, Potassium, Sodium, TON,	BH6A, BH8A, BH9A & BH11A only Visual Inspection and Odour, Groundwater Level, Ammoniacal Nitrogen, Electrical Conductivity, pH, Temperature Chloride, Dissolved Oxygen, Cadmium, Chromium, Iron, Lead, Manganese, Potassium, Sodium, TON, TOC, Barium, Nickel, Nitrate, Nitrite, Phenol,	-

	Current Monitoring		Proposed Monitoring			
Monitoring Frequency	BH1A, BH4A, BH6A, BH9A, BH10A, BH11A	BH2A, BH3A, BH5A, BH7A, BH8A	SW1, SW2, SW3, SW4 and SW5	BH1A, BH2A, BH3A, BH4A (replace), BH5A (replace), BH7A, BH11A	BH6A, BH8A, BH9A, BH10A, BH11A	SW1, SW2, SW3, SW4 and SW5
				TOC, Barium, Nickel, Nitrate, Nitrite, Phenol.		
Annually	Boron, Calcium, Copper, Cyanide, Fluoride, Magnesium, Mercury, Sulphate, Total Alkalinity, Total Phosphorous, Residues on Evaporation, Faecal Coliforms, Total Coliforms List I & II substances monitored biannually from BH10, annually from other boreholes	Boron, Calcium, Copper, Cyanide, Fluoride, Magnesium, Mercury, Sulphate, Total Alkalinity, Total Phosphorous, Residues on Evaporation, Zinc, Faecal Coliforms, Total Coliforms	Calcium, Copper, Magnesium, Manganese, Mercury, Sulphate, Sodium, total Alkalinity, FON, Zinc	ton purposes of the arry of the ruse. I of the ruse o	boreholes m, Copper, Cyanide, agnesium, Mercury, bhate, Total osphorous on Evaporation & Total and al Coliforms)	Calcium, Copper, Magnesium, Manganese, Mercury, Sulphate, Sodium, TON (removed Total Alkalinity & Zinc)
Every 2 years	-	-	-	Faecal Coliforms, Total Coliforms List I & II	Faecal Coliforms, Total Coliforms List I & II	List I & II

Table 10.1 – Proposed Revised Monitoring Schedule

Monitoring Well	Parameter	Compliance Value	Source
	Lead	18.5 μg/l	2010 GTV
	Ammoniacal Nitrogen	All boreholes (0.175 mg/l) with the exception of BH5A (12.7 mg/l) BH4A (0.73 mg/l) BH3A (0.37 mg/l)	2010 GTV 2 times Standard Deviation of the mean from 2006
	Electrical Conductivity	1000 μS/cm	EPA IGV
	Sulphate	187.5 mg/l	2010 GTV
	Iron	200 μg/l	2007 Drinking Water Regulations
All groundwater monitoring wells & Open Quarry Void Samples	Manganese	BH1A 144μg/l BH2A 62 μg/l BH3A 75 μg/l BH4A 25668 μg/l BH5A 760 μg/l BH7A 197 μg/l BH8A 32 μg/l BH9A 76.3 μg/l BH10A 661 μg/l BH11A 100 722 μg/l	2 times Standard Deviation of the mean from 2007
	Chloride	BH11A pro 72 µg/l BH11A pro 72 µg/l For its position property to the property of the propert	2010 GTV
	Dissolved Oxygen, pH, Temperature, Fluoride Total Alkalinity, Orthophosphate, Total Oxidised Nitrogen, Total Organic Carbon	-	EPA IGVs, 2010 GTVs & 2007 Drinking Water Regulations
	Metals/Non-Metals (i.e. B, Cd, Ca, Cr, Cu, Hg, Pb, Mg, Ni, K, Na and Zn)	-	EPA IGVs, 2010 GTVs & 2007 Drinking Water Regulations
	Hazardous Substances (<i>i.e.</i> VOCs & SVOCs, Total Hydrocarbons)	-	EPA IGVs, 2010 GTVs & 2007 Drinking Water Regulations

Table 10.2 Proposed Compliance Values

11 RECOMMENDATIONS / REMEDIAL STRATEGY

- Re-survey ground and top of casing elevations at all groundwater monitoring boreholes to ensure groundwater levels are accurate and not affected by settlement or other influences todate.
- Consider short to medium-term (i.e. 3-6 months) installation of groundwater dataloggers at selected boreholes (e.g. 5 to 6 locations) and within the quarry voids to the south and east of the landfill waste body to:
 - ✓ Confirm the hypothesis of a controlling influence of the flooded quarry void on the hydrogeological regime;
 - ✓ Assess the identified localised variations of groundwater flow direction off-site, in particular along the northern perimeter of the site, across a range of climatic conditions; and,
 - ✓ Re-assess the appropriateness of the existing groundwater monitoring network at the site.
- The second flooded former quarry void to the northeast of the site is not within the site boundary of the site. Therefore permission for site access would be required from the adjacent property owner to facilitate water level monitoring of this void.
- BREL understands that Louth County Council is seeking funds to cap the waste outside the licensed boundary in order to further reduce potential leachate generation.
- Based on the available geochemical information recorded to-date at the site, it is recommended that the existing monthly groundwater sampling programme be reduced to quarterly sampling and the existing quarterly mentioning reduced to biannual monitoring (see Table 10.1).
- Water levels within the open former quarry void should be recorded during each groundwater level monitoring event relative to a surveyed reference point. This is to identify the impact of this large body of water on surround groundwater levels over time.
- Decommissioning and replacement of monitoring boreholes BH4A and BH5A is recommended
 given the uncertainty surrounding the installation details and the proximity to the waste body of
 these wells. Any works should be supervised by a hydrogeologist to ensure appropriate well
 installations have been undertaken and that the boreholes are not providing a contaminant
 pathway to the underlying aquifer. Access restrictions may prove problematic in the location of
 borehole BH5A and liaisons between Louth County Council and the local landowner may be
 required
- Two additional boreholes to the north and west of the northern site area are recommended.
 These boreholes would provide more complete site coverage in addition to providing
 additional information in relation to variable groundwater flow directions in this area of the site
 and possible contaminant fluxes offsite to the west and northwest. Any additional boreholes
 can be installed as part of future capping works of the waste outside the existing site
 boundary.
- It is recommended that monitoring borehole BH6A be decommissioned due to the nondetection of elevated contaminants throughout the monitoring period todate and due to its proximity to borehole BH8A. All boreholes recommended for decommissioning should be appropriately decommissioned in accordance with UK Environment Agency methodology to minimise the risk of contaminant migration to the underlying aguifer.
- It is recommended that the laboratory detection levels for Phenols be reduced to below 0.0005 mg/l during any further chemical testing to ensure compliance with the relevant groundwater standards.

12 SUMMARY, CONCLUSIONS & RECOMMENDATIONS

- A Hydrogeological Risk Assessment of Drogheda Landfill Site was undertaken by BREL based on previous investigation reports and monitoring data between 2006 and 2014.
- This closed landfill is unlined and contains primarily household, commercial, construction and demolition and industrial non-hazardous solid waste. The site originally operated as a limestone quarry. All quarrying operations ceased in 1979 and water levels were allowed to return to equilibrium on cessation of the reported dewatering activities. The facility subsequently opened as a landfill facility in 1983 (EPA licence W0033-1) for the disposal of household, commercial, construction, demolition and industrial non-hazardous solid waste. The site ceased landfill operations in 1999 and was subsequently capped and developed into open space in 2007. A civic waste facility was opened adjacent to the area of the waste body in 2002 at the site.
- The site lies approximately 600 metres north of the River Boyne which flows in a west-east direction towards the Irish Sea. The site is bounded by agricultural land to the north and west, a former quarry to the northeast and a housing development to the south and southeast.
- The waste material was laid directly upon the exposed limestone bedrock benches of the former quarry and operates under the dilute and disperses principal. Capping of the waste material was undertaken between November 2006 and September 2007. However it was subsequently identified that during waste infilling operations on the landfill site (*i.e.* pre-1999); waste material was mistakenly buried across the northern waste licensed boundary of the landfill. This material was reportedly placed on existing overburden rather than on exposed bedrock benches of the former quarry. No removal or capping of this material has taken place to-date.
- The regionally important bedrock karst aguiter is the only identified aquifer to-date. No perched groundwater has been identified at the site.
- Leachate appears to continue to migrate vertically into the bedrock aquifer in particular areas of the landfill, particularly along the northern boundary of the site. However the hydrochemistry data suggests that there is significant dilution capacity of the contaminants within the bedrock aquifer in addition to the open void downgradient of the waste body.
- Groundwater generally appears to flow across the site in a north to south/southeasterly direction. Localised variations were observed in the northern region of the site *i.e.* in the vicinity of monitoring well BH1A and monitoring well BH4A. These variations suggest that localised flow occurs in a north to northwesterly direction across the northern boundary of the site at particular times of the year.
- Water levels within the void suggest that this water body has a controlling influence on groundwater levels in its immediate vicinity. As the open water of the quarry void receives close to 100% of potential recharge, in addition to surface water runoff and groundwater flows from upgradient zones, it appears to be acting as a groundwater mound discharging radially to the surrounding aquifer, during certain periods of the year, and thereby affecting the groundwater flow regime within the immediate area of the site. On other occasions the levels within the void are lower than the surrounding groundwater levels to the west and south. Groundwater flow from the void to the southeast remains relatively constant over time.
- No contaminant fluxes appear to be occurring across the southern and southeastern landfill site boundaries in a downgradient direction. However, uncertainty persists regarding the migration of contaminated fluxes in a north to northwesterly direction across the northern site boundary i.e. in the vicinity of the non-capped waste material. It is also unclear if the detected contaminant concentrations in monitoring boreholes BH4A and BH5A are attributed to leachate migration from the waste body directly into the underlying bedrock aquifer, are being detected due to preferential pathways generated by poor borehole installations or a combination of both.

A previous RPS report (Ref: MDE1008Lt0001D01, dated 4th October 2010) concluded that the monitoring borehole BH5A is not facilitating the vertical migration of contamination to the aquifer based on the assumption that the six metre bentonite seal within the monitoring borehole was installed correctly during the drilling works. If this seal was inappropriately installed, the protection layer may not be fulfilling its requirements and potentially facilitates the migration of leachate to groundwater. In addition, the shallow screen in borehole BH4A may also be facilitating the migration of leachate from the waste body to groundwater.

- The non-capped waste material, in close proximity to boreholes BH4A and BH5Aa, is generating leachate from infiltration (*i.e.* rainfall) and is potentially impacting on BH4A and BH5A over time.
- The adjacent former quarry site to the east of the landfill was granted permission to undertake infilling of both domestic and commercial waste material in 1984 for a period of 5 years. In addition, permission was also granted in 1992 to infill the quarry void with builder's rubble, limestone & shale material. No domestic waste was permitted. No further information was available during the compilation of this report; however, the potential presence of this material on the adjacent property may potentially be impacting on the elevated concentrations of contaminants on the northern boundary of the Drogheda Landfill site.
- A preliminary Conceptual Site Model (CSM) was initially developed and identified a number of SPR linkages ranging between Low and High. However, following a detailed review of all site data, these risks were reduced to Low and Low to Moderate.
- The main SPR linkage of concern relates to:
 - The migration of leachate to the underlying groundwater body, to the River Boyne and to Drybridge public groundwater supply.
- Based on average values of Ammoniacal Nitrogen levels between 2006 and 2014 in the
 northern region of the landfill, the rule of thumb of 100xGTV was regularly exceeded in BH5A
 throughout the monitoring period. It is noted that the levels recorded are reducing over time.
 Based on the trends observed and assuming this downward trend continues over time at this
 location, it is predicted that the mean levels will achieve the GTV by the end of 2016
 approximately.

Occasionally the 100xGTV tile of thumb was exceeded in BH3A for Ammoniacal Nitrogen. However, the levels recorded in BH3A are generally below the GTV with only the most recent data recording slightly elevated levels.

Isolated exceedances of the 100xGTV was recorded in BH4A for Iron (November 2010), Nickel (August 2010) and Manganese (August 2010). It is unclear if these isolated levels are representative of groundwater conditions considering the significantly lower levels recorded prior to and after these sampling events.

• The site is compliant with the "prevent" or "limit" objectives of the WFD and GWD. The prevention of hazardous of substances entering the groundwater system is being met based on available chemical analysis. Limiting the ingress of non-hazardous substances is also being met by the mitigation measures that have been installed to date at the site *i.e.* landfill capping, the lining of surface water drains and on-going groundwater and surface water monitoring as per the licence requirements.

The following points are noted:

- ✓ The area of impact from the landfill leachate (i.e. in the northern region of the site) is considered to be minor relative to the groundwater body catchment area of the Drogheda GWB *i.e.* < 0.01%; Therefore it is unlikely that the status of the GWB or the objectives of the WFD will be affected.
- ✓ No groundwater plume has been identified todate.

- Consultations with Louth County Council have confirmed that it is intended to complete the recommended works, as outlined in Section 11.0, by mid-2017. However, capping of the waste outside the boundary remains subject to significant capital budget being made available. Completion of the other works/investigations as per Section 11 will be used to prepare a revised CSM report to be submitted to the Agency in the third quarter of 2017.
- In summary, based on available site data, the risk posed by Drogheda Landfill to the underlying GWB, the River Boyne and any potential down-gradient groundwater users is considered to be low. A series of once-off measures have been provided to develop a more representative understanding of the risk posed by the landfill and address the identified uncertainties in particular relating to potential fluxes discharging to the north of the site.

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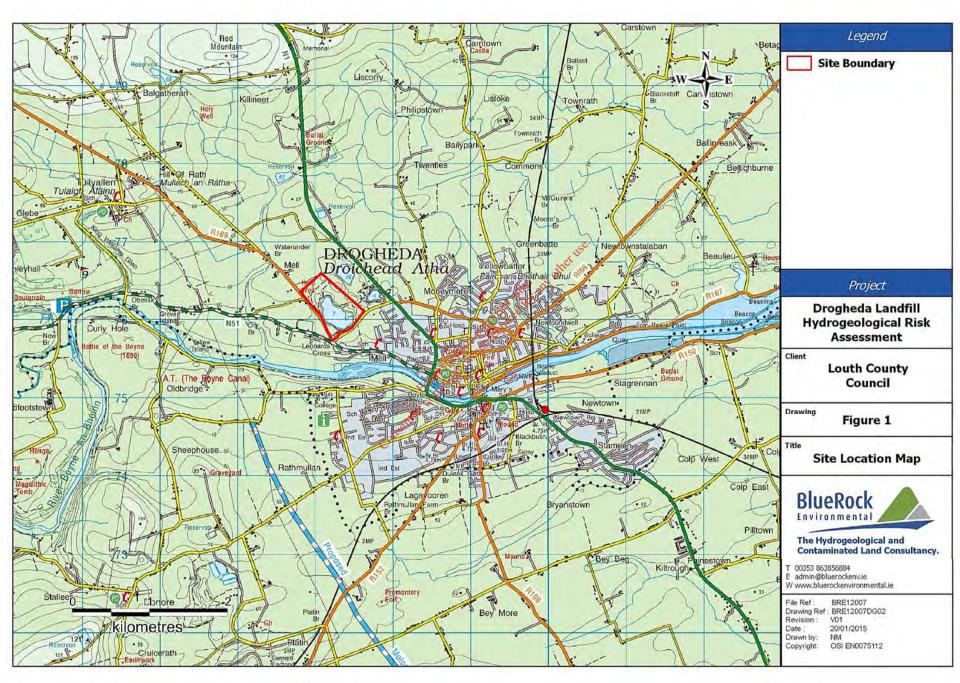
Niall Mitchell

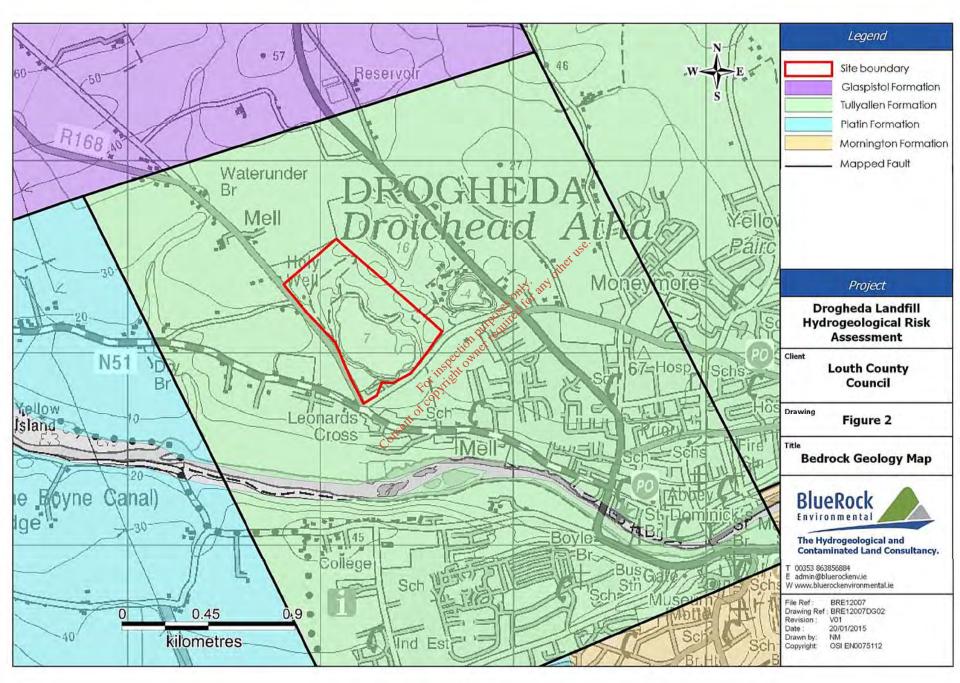
Hydrogeologist / Chartered Engineer

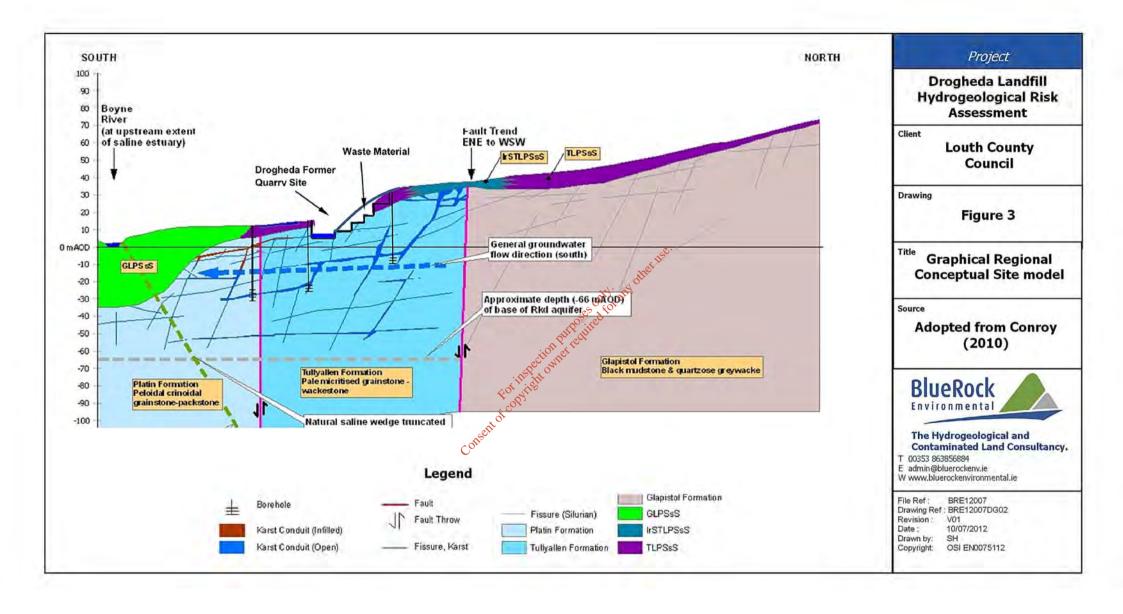
On behalf of Louth County Council (Waste Licence No. W0033-1)

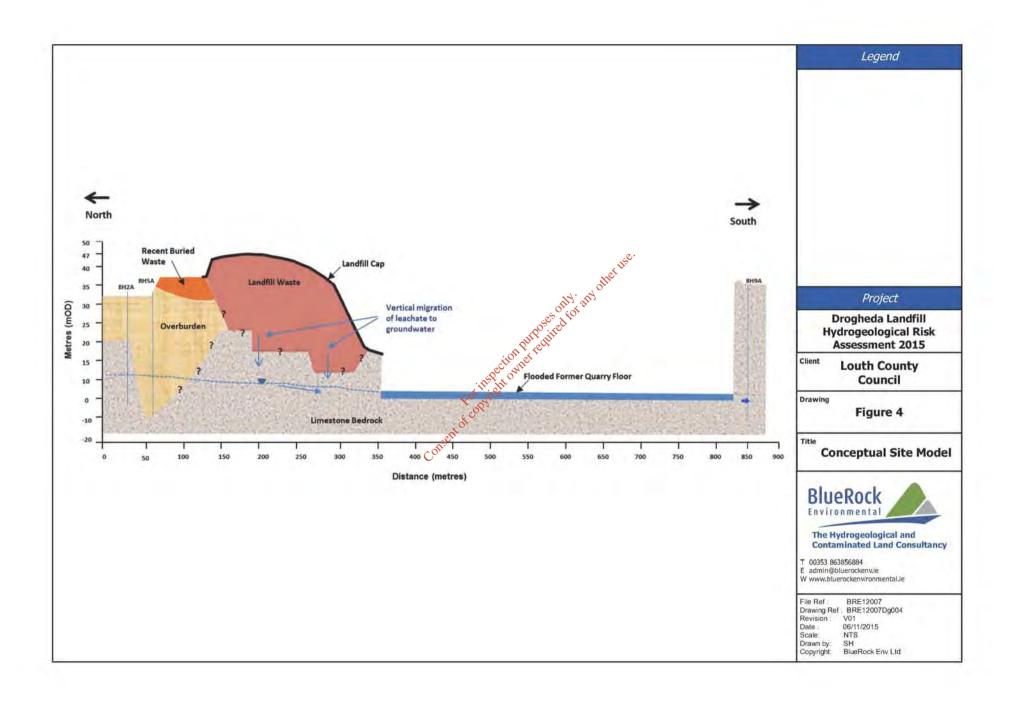
FIGURES

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APPENDIX A

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Monitoring			Depth		
Location	Borehole logs	Installed	m	Standpipe	Description
Ground water	monitoring borel	noles		Account discrete standards and the Company of Factor	Devides slev (sussitivation) to 00m these
				100mm diameter standpipe, slotted from 35.5m to 29m. Gravel pack form 35.5m to 29m. Bentontite	Boulder clay (overburden) to 28m then moderately strong grey fine grained
				seal from 29m to 23m. Annulus backfilled with	carboniferous limestone
BH1A	1RB	15/08/2001	35.5	arisngs.	
				100mm diameter standpipe to 50m. Slotted form 50m to 20m. Gravel from 50m to 9m. Bentonite	Boulder clay (overburden) to 8.50m then moderately strong grey fine grained
				seal from 9m to 3m. Arising from 3m to 1m	carboniferous limestone
BH2A	2RB	15/08/2001	50		
				100mm diameter standpipe to 52.5m. Slotted from 52.5m to 32.5m. Gravel pack from 52.5m to 32m.	Boulder clay (overburden) to 9m then moderately strong grey fine grained
ВНЗА	3RB	15/08/2001	52.5	Bentonite seal from 32m to 26m	carboniferous limestone
БПЗА	JKB	13/00/2001	32.3	100mm diameter standpipe, slotted from 1.5 to	Clay to 21.5m then limestone.
				31.50m	
BH4A	BH4A	08/03/2000	31.5	100mm diameter standpipe to 48.5m. Slotted from	Boulder clay (overburden) to 44m then
				48.5m to 42.5m. Gravel from 48.5m to 42m.	moderately strong grey fine grained
BH5A	5RB	15/08/2001	48.5	Bentonite seal from 42m to 36m. Annulus backfilled	
				100mm diameter standpipe to 42.5m. Slotted from 42.5m to 9.5m. Gravel from 42.5m to 9m. Bentonite	Boulder clay (overburden) to 1m then
BH6A	6RB	16/08/2001	42.5	seal from 9m to 1m.	carboniferous limestone
BIIOA	OND	10/00/2001	42.0	100mm diameter standpipe to 30m. Slotted from	Boulder clay (overburden) to 0.30m then
				30m to 9m. Gravel from 30m to 8.5m. Bentonite	moderately strong grey fine grained
				seal from 8.5m to 2.5m. Annulus backfilled with arisings	carboniferous limestone
BH7A	7RB	16/08/2001	30	100mm diameter standpipe to 45.5m. Slotted from	Boulder clay (overburden) to 2.70m then
				45.5m to 27.5m. Gravel from 45.5m to 27m.	moderately strong grey fine grained
BH8A	8RB	16/08/2001	45		carboniferous limestone
				100mm diameter standpipe to 47m. Slotted from 47m to 14m. Gravel from 47m to 14m. Bentonite	Boulder clay (overburden) to 2m then moderately strong grey fine grained
				seal from 6m to 0m.	carboniferous limestone
BH9A	9RB	16/08/2001	47	100 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
				100mm diameter standbiper slotted from 6.0 to	slightly weathered grey fine grained limestone
BH10A	BH10A	08/03/2000	40	Ses a to	
				100mm diameter standpipe to 30m. Slotted from	Boulder clay (overburden) to 0.50m then
				15m to 30m. Gravel from 30m to 13m. Bentonite seal from 13m to 6m. Annulus backfilled with	moderately strong grey fine grained carboniferous limestone
BH11A	11RB	15/08/2001	30	arisings (18	
			∧of	seal from 13th to 6m. Annulus backfilled with arisings	
			30	62.	
			i of C		
			seni		
		Ċ	OTI		
			,		

1000mm	HANDS ENSLAND AEG	Dates		Chent	Client				ВН4А
Freedom		32 33/30 - 08/03/00		1 to	0	COGHEDA			Sheet
Particular Par	ТН	Location		Engineer					Ground Level (mOD)
TOTAL STATE OF THE PROPERTY OF		D (This				gr -			Daily
	sandy CLAY Coandy CLAY coandy fine grain	Conserva Conservania in the constant of the constant of the conservania in the conservani		off, sul diffet fige.					
			And the second s				W 2	Borehole Number	BH4A

Numbe. BH4	Sheer	Ground Level (mOD)	Daily Progress	95.33,60	Logged By TE.
			Water		Scale 1,200 Figure No. 3549. F. Borehole
			ū		07 12 102
	DA		s / Tests SCR RQD		
	DROGHEDA		Samples / Tests		
	ATICH OF		Depth (m)		_
	CLEPSRATION	Engineer	Level (mOD)	od: of other life.	
			Legend	The state of the s	
110	007		Depth m (Thickness)	Lummhumuhumuhumuhumuhumuhumuhumuhumuhumu	
mycouganous	Dates 3833/30 - 08/03/00	Location AS PLAII		Therefore and the constitute of the constitute o	
	: HANDS ENGLAND A60	:200.00mm :ROTARY DTH	Description	Firm brown gravelly sandy CLAY controlly mandy CLAY controlly sandy CLAY controlly sandy CLAY controlly weathered grey fine grained significance of some grained grey fine grained sandy or some same of some grained frey fine grained sandy or some some same of some same of same same same same same same same same	Themster cas standard and the constant of the case of
٠	Machine	Bit Size Method		Firm brown cobbles Slightly wes SND OF SOR	Remarks 1-00-2021:0: A Export 10-06-2021:0:

Number BH4A	Job Number	Sheet 1/1		Depth Sealed 20 min (m)				Depth Level							
				Readings min 15 min 2				(m)							
			rilling	Read 10 min		g Drilling	4	Hole E		ations			Remarks		
	EDA		S during D	5 min		Observations During Drilling		D) Time		er Observa					
LAMDFILL	OF DEOCHEDA		Groundwater Strikes during Drilling	Inflow Rate		er Observat	9	Depth Level (m) (mOD)	- 111	Instrument Groundwater Observations					
4EDA	CORPORATION	Engineer	Graundy	Casing Depth (m)		Groundwater	10	Depth (m)		Instrument	94.°	iny othe	Level (dor		
DRG	CORP			Depth Struck (m)				Hole (m)		Outpose.	sol for	trument [/	Depth (m)		
Ltd	165 mm	Ground Level (mOD)		Ti				Tia	inspecti	owner to	Type:	Ins	Time		
	[6] = 10 205 mm	Ground		Date			Oate	201	For Lody right		Inst. [A]		Date		
Investigations	ons al Diameter of Tube et of Filter Zone =		Description	Comprete Common / Bentoniae Grout	7 (1) (1) (1) (1) (1) (1) (1) (1)			Con	For inspect				edidogo relation		
	Interna Diamete	Location AS FLAH	Depth (m)	95.0	Ü								ű.		25 10 21 21
Site			Level (mOD)	-6.50	6 6										31.50 5
Glover	Scott Control		Inst [A]	10 00 00 00 00 00 00 00 00 00 00 00 00 0	og . Saudo og . de og . gave i g . g og . de og . ge					The second	TOTAL	San Pagan		్రామాలు కుట్టుకుండా సందర్భకు ప్రస్తుందా ప్రశిశ్వ కుట్టుకుండా ప్రశిశ్వ క్షాప్ ప్రస్తున్నారు. నిరిత్యక్షు ప్రస్తి కోప్పు చేసికి మాట్లుకు సందర్శకు కుట్టుకు ప్రశావ కేస్తికి మండి కి.మీ. ప్రశిశ్వమారు ప్రశిశ్వ ప్రస్తి ప్రశావ కారు కోప్పు కొన్న కి.మీ. కి.మీ. కార్యక్షులు కేస్తి కార్మకార్లు కోష్టుకు కార్మకారు. కార్యకారు కార్యక్షులు ప్రశావ కార కోప్పు కొన్న కి.మీ. కోప్పు కార్యకారు కోస్తి ప్రామారు కోష్టుకు కోప్పుకు కోవిక్స్ కార్యకార్లు కార్యకారు. అందిని మ	0 - 200 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2 Bottelletson	GAS STA		pueber	x x v	X X X X	X s	*	×			*	× ×			EEA Export

	me constanting	בומ		TO TO THE PERSON NAMED IN				Number BH10A
Machine : HANDS ENGLAND AGD Flush : AIR	Oates 08/03/90 - 08/03/00	33.00	CORPORATION	OM OF DROG	DROGHEDA			Sheer 1/1
Bit Size 1, 2081, 60mm Method : FOYFAFY DYR	Location AS ELAN		Engineer					Ground Level (mOD)
Description		Depth Legend (Thickness)	Level (mOD) Depth (m)	Sar	nples / Tests	Œ	Water	Daily Progress
ghely weathered grey fine ghely weathered grey fine ghely weathered grey fine grely fine grely fine grey f	Consent Consent Consent Santa Fants Santa	Consent of	ay' ary offer 115°C.					
Y Remarks 100mm diameter gas standpipe installed	, ted.					Scale 1.2 Figure	2 2	Logged By TS
						Bor	Borettole Number BH10A	10A

Sorehole Number BH10A	Job Number 3649	Sheet		Depth (m)			Wat, Level (mOD)						
			,	20 min		uft	Water Depth (m)						
				Readings min 15 min		End of Shift	Casing Depth (m)						
			illing	Rea 10 min	Drilling		Depth Hole (m)	A	tions				
	4: ()		Groundwater Strikes during Drilling	5 min	Groundwater Observations During Drilling		r Time		Instrument Groundwater Observations				
ILL	PROGREDA		er Strikes	Inflow Rate	bservatio		Water Level (mOD)		undwater				
S CAMPFILL	Client CORPORATION OF		oundwate		dwater 0	Shift	Water Depth (m)	10	ment Gro			ي.	
UNCCHEDA	Client	Engineer	Gre	Casing (m)	Ground	Start of Shift	Casing Depth (m)		Instrur	only as	ny differ	(mOD)	
	0 0	-	-	Depth (m)			Depth Hole (m)		Dit Golit	edfor	strument	(m)	
100	100 mm	Ground Level (mOD)		Tine	_		Time	inspection	nett	J Type :		Time	
SIIS	[A] = 207 mm	Groun		Date			Date	of copyrise		Inst. [A			
Investigations	ions nal Diametex of Tube (A) = 100 mm ter of Filter Zone = 200 mm	4,61	Description	Concrete Vehin Eenromite Grout Grout Filter				Consent of convincent			edidpuesa serioja		
ונט	Internal Diameter	Location AS PLAN	Depth (m)	5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5							- 10		ė
)			Level (mOD)	96.6									45 65 65
200	AUCFIPE		Inst. [A]	1 c 5 c 5 c 5 c 5 c 5 c 5 c 5 c 5 c 5 c	Schulp on their g	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			of the field of th	4 1500 pg 5 5 5 6 6 1 1500 pg 5 1500 pg 7 1500 pg 5 5 5 6 1 1500 pg 6 1500 pg 7 1500 pg 7 1500 pg 7 1500 pg 7
2	GAS STANDFIPE		Legend									1	

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Machine : DOWN THE HOLE HAMMER	Dates 15/08/01 - 15/08/01	18/01		Client	ent LOUTH COUNTY	COUNCIL				Sheet
ø,	Location			Engineer	Engineer					Ground
Method :	AS FLAN			KIRK	MCCLURE	MORTON				Dom) level
Description		Depth m (Thickness)	Pegend	Level (mOD)	Depth (m)	Sample	Samples / Tests	S RQD FI	Water	Daily Progress
Moderately strong grey fine grained LIMESTONE	CARBONIFEROUS	o statistic and state of the st		only, any other	nge.					
		(7.50)							Water 8 32.10m	Water struck at 32.10m.
END OF BOREHOLE 35.5m.										
Remarks Hemarks Installed 100mm standpipe to 35.5m. Slotted from 35.5 to 29.5m. Seavel pack from 35.5 to 29.0m Bentonite seal from 29.0 to 23.0m Chanulus backfilled with arising.									Scale Log 1:200 DC Figure No. 4230.1RB	Logged By DC DC RB

Borehole Number 2RB	Sheet 2/2	Ground Level (mOD)	er Daily Progress	15/08/01
			Water	
COLLON ROAD,			<u> </u>	
COLLO			Fests Rob	
SITE,	CIL	NO	Samples / Tests	
DFILL	Y COUNCIL	E MORT	=	
te DROHEDA LANDFILL SITE, DROHEDA	COUNTY	McCLUR	Depth (m)	Nege.
Site DROHE DROHE	Client LOUTH (Engineer KIRK McCLURE MORTON	Level (mOD)	off, stay officer
			Legend	In the second se
Is Ltd	/01		Depth m (Thickness)	60 00 Foldight
Investigations	Dates 15/08/01 - 15/08/01	Location AS PLAN		Consent d Constitution of the grapher of the graphe
Glover Site Inv	Machine : DOWN THE HOLE HAMMER Flush :	g p	Description	Moderately strong grey fine graine LIMESTONE END OF BOREHOLE 50.0m.

Glover Site In	Investigations	ns Ltd	0	Site DROH DROH	e DROHEDA LANDFILL SITE, DROHEDA	FILL SI		COLLON ROAD,	AD,	No. W	Borehole Number 3RB
Machine : DOWN THE HOLE HAMMER Flush :	Dates 15/08/01 - 15/08/01	8/01		Client	LOUTH COUNTY COUNCIL	COUNCI	i i			Sheet 1/2	et 2
Bit Size : Method :	Location AS PLAN			Engineer	Engineer KIRK McCLURE MORTON	MORTON				Gro	Ground Level (mOD)
Description		Depth m (Thickness)	Puegend	Level (mOD)	Depth (m)	Sampl	Samples / Tests	300	E W	Water Level P	Daily Progress
Moderately strong grey fine graine LIMESTONE	To one of grained CARBONI FEROUS Counseling the country of the co	(00.6) For the production of		ON ON ON ON ON HEADER HEADER HEADER AND THE	Ngc.						
Remarks Installed 100mm standpipe to 52.5m Slotted from 52.5m to 32.5m Gravel pack from 55.5m to 32.0m. Bentonite seal from 32.0m to 26.0m. Lockable cover fitted.									Scale 1:200 Figure No 4230.3	Scale Logg 1:200 DC Figure No. 4230.3	Logged By
jar sample taken every metre.									Borehole Number	oer 3RB	В

Glover Site Inv	Investigations	ns Ltd	þ	DROHE DROHE	DROHEDA LANDFILL SITE, COLLON ROAD, DROHEDA	FILL SI	TE, COI	LON RO	AD,	P N E	Borehole Number 3RB
Machine : DOWN THE HOLE HAMMER Flush :	Dates 15/08/01 - 15/08/01	8/01		Client	ent LOUTH COUNTY COUNCIL	COUNCI				Sheet 2/2	et 2
Φ π	Location AS PLAN			Engineer	Engineer KIRK McCLURE MORTON	MORTON				Gro	Ground Level (mOD)
Description		Depth m (Thickness)	Legend	Level (mOD)	Depth (m)	Sampl	Samples / Tests	SS BOD	Water		Daily Progress
Moderately strong grey fine grainer LIMESTONE BOREHOLE 52.5m.	Company of the state of the sta	Cos 2 Cost in the period of the cost of th	HALL HALL HALL HALL HALL HALL HALL HALL	Out of a start of the start of	ige.					* Water struck 49.40m.	truck at 15/08/01
Remarks Installed 100mm standpipe to 52.5m Slotted from 52.5m to 32.5m Gravel pack from 52.5m to 32.0m. Bentonite seal from 32.0m to 26.0m. Lockable cover fitted.									Scale 1:200 Figure No. 4230.3	Logged By DC DC No.	ed By
sample taken every metre.									Borehole	ole 3RB	В

alovei olle IIIv	IIIVesugations	IS Ltd		DROHEDA LANDFILL SITE, DROHEDA	LANDEL	LL DIE		COUNTY WORK		5RB
Machine : DOWN THE HOLE HAMMER Flush :	Dates 15/08/01 - 15/08/01	1/01		Client LOUTH C	COUNTY CO	COUNCIL				Sheet 1/2
g p	Location AS PLAN			Engineer KIRK McCLURE MORTON	CLURE M	ORTON				Ground Level (mOD)
Description		Depth m (Thickness)	Legend	Level (mOD)	(m) white	l d	ss / Tests	<u> </u>	Water	Daily Progress
BOULDER CLAY (OVERBURDEN)	Carenta			My any after use.					×	
Remarks Installed 100mm standpipe to 48.5m Slotted from 48.5 to 42.5m Gravel pack from 48.5 to 42.0m. Bentonite seal from 42.0 to 36.0m. Annulus backfilled with axisings.								, ,	Scale 1:200 Figure No. 4230.5	Logged By DC
able cover fitted.									Borehole	

Glover Site In	Investigations	is Ltd		Site DROHED! DROHED!	DROHEDA LANDFILL SITE, COLLON ROAD, DROHEDA	LL SITE,	, COLLO	N ROAD,		Borehole Number 5RB
Machine : DOWN THE HOLE HAMMER Flush :	Dates 15/08/01 - 15/08/01	/01		Client LOUTH COUNTY (COUNTY C	COUNCIL				Sheet 2/2
e p	Location AS PLAN			Engineer KIRK McCLURE MORTON	CLURE M	ORTON				Ground Level (mOD)
Description		Depth III (Thickness)	Legend	Level (mOD)	-	Samples / Tests	ss / Tests		Water	Daily Progress
BOULDER CLAY (OVERBURDEN) Moderately strong grey fine grained LIMESTONE	ed CARBONIFEROUS	44 . 60							water s	Water struck at 45.00m.
END OF BOREHOLE 48.5m.	Consent of the little from the late of the	HH S Eorite politic to the second s	Turge chired for	offst, stay offset neg						15/08/01
Remarks Installed 100mm standpipe to 48.5m Slotted from 48.5 to 42.5m Gravel pack from 48.5 to 42.0m. Bentonite seal from 42.0 to 36.0m. Annulus backfilled with arisings.									Scale 1:200 Figure No. 4230.5	Logged By DC
Lockable cover fitted. Jar samples taken every metre.									Borehole Number	SRB

Glover Site In	Investigations	s Ltd	70	DROHED	DROHEDA LANDFILL SITE, DROHEDA	LL SITE	, COLLON ROAD,	ROAD,		Number 6RB
Machine : DOWN THE HOLE HAMMER Flush :	Dates 16/08/01 - 16/08/01	3/01		Client	Client LOUTH COUNTY COUNCIL	COUNCIL				Sheet 1/2
Bit Size : Method :	Location AS PLAN			Engineer KIRK M	Engineer KIRK McCLURE MORTON	IORTON				Ground Level (mOD)
Description		Depth m (Thickness)	Legend	Level (mOD)	Depth (m)	Samples / Tests	es / Tests SCR ROD	п	Water	Daily Progress
Moderately strong grey fine graine LIMESTONE	ne grained CARBONIFEROUS CARBONIFEROUS	Cansenta Cansenta Consenta Con		Only and the second of the sec	ge.					
Remarks Installed 100mm standpipe to 42.5m. Slotted from 42.5 to 9.5m. Gravel pack from 42.5 to 9.0m Bentonite seal from 9.0 to 1.0m Cockable cover fitted.								S T L	Scale 1:200 Figure No. 4230,6	Logged By
samples taken every metre.								m z	Borehole	6RB

Glover Site In	Investigations	ns Ltd	DROHED DROHED	e DROHEDA LANDFILL SITE, COLLON ROAD, DROHEDA	SITE, O	OLLON ROAD	, D	Borehole Number 6RB
e e	Dates 16/08/01 - 16/08/01	8/01	Client	ent LOUTH COUNTY COUNCIL	NCIL			Sheet
Bit Size : Method :	Location AS PLAN		Engineer KIRK M	Engineer KIRK McCLURE MORTON	TON			Ground Level (mOD)
Description		Depth M Chickness	Level (mOD)		Ja -		Water	Daily
itely strong grey fi	ne grained CARBONIFEROUS	(2.50)		Depth (m) TCR	SCR	ROD H		* Water struck at 40.25m.
END OF BOREHOLE 42.5m.	Consont of Co	Consent of	Oright, study other res					16/08/01
Remarks Installed 100mm standpipe to 42.5m.							Scale 1:200	Logged By
Sincted from 42.9 to 9.5m. Gravel pack from 42.5 to 9.0m Bentonite seal from 9.0 to 1.0m Lockable cover fitted.							Figure No. 4230.6	
samples taken every metre.							Borehole	6RB

Giover Site Inv	Investigations	ns Ltd	0	DROHE	DROHEDA LANDFILL SITE, DROHEDA	FILL SI	re, col	COLLON ROAD,	D,	Number 7RB
Machine : DOWN THE HOLE HAMMER Flush :	Dates 16/08/01 - 16/08/01	8/01		Client	ent LOUTH COUNTY COUNCIL	COUNCIL	.,			Sheet 1/1
Bit Size : Method :	Location AS PLAN			Engineer	MCCLURE MORTON	MORTON				Ground Level (mOD)
Description		Depth m (Thickness)	Legend	Level (mOD)	Depth (m)	Sample	Samples / Tests	ROD	Water	. Daily Progress
Moderately strong grey fine grainec LIMESTONE	Grained CARBONI FEROUS Coursell And Carboni Percous	Edition Control Contro		HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	. Age.				Water 15.00	Water struck at
END OF BOREHOLE 30.0m.		<u>пппп</u> 							m	16/08/01
Remarks Installed 100mm standpipe to 30.0m. Slotted from 30.0 to 9.0m. Cravel pack from 30.0 to 8.5m Pentonite seal from 8.5 to 2.5m Annulus backfilled with arisings.									Scale 1:200 Figure No. 4230.7	Logged By DC Io.

Glover Site In	Investigations	s Ltd	0	DROHE	DROHEDA LANDFILL SITE, COLLON ROAD, DROHEDA	FILL SI	E, COLI	ON ROAL	,,	Number 8RB
Machine : DOWN THE HOLE HAMMER Flush :	Dates 16/08/01 - 16/08/01	3/01		Client	ent LOUTH COUNTY	COUNCIL				Sheet 1/2
Bit Size : Method :	Location AS PLAN			Engineer	Engineer KIRK McCLURE MORTON	MORTON				Ground Level (mOD)
Description		Depth m (Thickness)	Legend	Level (mOD)	Depth (m)	Sample	Samples / Tests	ROD FI	Water	Daily Progress
Moderately strong grey fine grained LIMESTONE	CARBONI FEROUS COUPERING C	S 2 2 Editien S E		Official HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	nge.					
Remarks Installed 100mm standpipe to 45.5m. Slotted from 45.5m to 27.5m Cravel pack from 45.5 to 27.0m. Bentonite seal from 27.0 to 21.0m Annulus backfilled with arisings. Lockable cover fitted.		40.00					-		Scale 1:200 Figure No. 4230.8	Logged By DC.
Jar samples taken every metre.									Borehole	8RB

Machine : DOWN THE HOLE HAMMER 16/08/01 - 16/08/01 Flush : Gradien As PLAN Method : As PLAN Moderately strong grey fine grained CARBONIPEROUS LIMESTONE END OF BOREHOLE 45.5m.	Investigations Ltd	DROHEDA LANDFILL SITE, COLLON ROAD, DROHEDA	COLLON ROAD,	8RB
grey fine grained CAR 45.5m.	V08/01 - 16/08/01	Client LOUTH COUNTY COUNCIL		Sheet 212
grey fine grained CAR 45.5m.		Engineer KIRK McCLURE MORTON		Ground Level (mOD)
grey fine grained CAR 45.5m.	Depth Legend (m	(mOD)	1	Water Daily Level Progress
udumudunim luimudumun	Consenting the state of the sta			Water struck at 42.75m.
			Scal	Scale Logged By
Gravel pack from 45.5 to 27.0m. Bentonite seal from 27.0 to 21.0m. Annulus backfilled with arisings.			Figu 42	30.8
Lockable cover fitted. Jar samples taken every metre.			Bore	Borehole Number

Glover Site Inv	Investigations	Ltd	DROHE	IDA LANDI	TLL SIT	DROHEDA LANDFILL SITE, COLLON ROAD, DROHEDA	N ROAD,		Borehole Number 9RB
Machine : DOWN THE HOLE HAMMER Flush :	Dates 16/08/01 - 16/08/01		Client	ent LOUTH COUNTY	COUNCIL				Sheet 1/2
Bit Size : Method :	Location AS PLAN		Engineer	Engineer KIRK McCLURE MORTON	MORTON				Ground Level (mOD)
Description	E	Depth m Legend (Thickness)	Level (mOD)	Depth (m)	Sample	Samples / Tests	Ε	Water	Daily Progress
BOULDER CLAY (OVERBURDEN) Moderately strong grey fine grained LIMESTONE	Fine grained CARBONIFEROUS 2.00 Size of Siz	S S S S S S S S S S S S S S S S S S S	Jing O H H H H H H H H H H H H H H H H H H	Tzc.					
Remarks Installed 100mm standpipe to 47.0m. Slotted from 47.0 to 14.0m. Gravel pack from 47.0 to 6.0m. Bentonite seal from 6.0 to 0.0m.								Scale 1:200 Figure No. 4230.9	Logged By
able cover fitted.								Borehole	

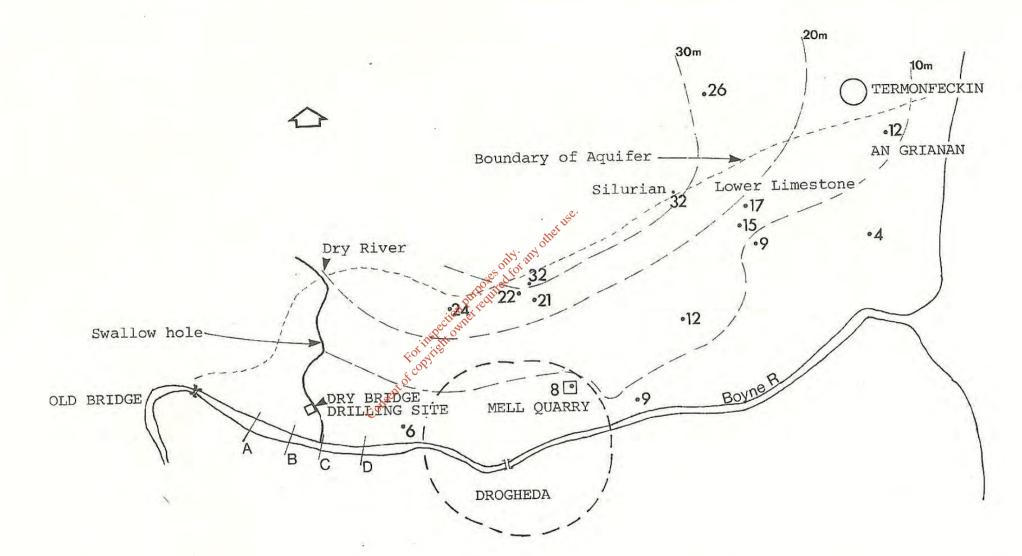
Glover Site In	Investigations	ns Ltd	P	Site DROHI DROHI	te DROHEDA LANDFILL SITE, COLLON ROAD, DROHEDA	FILL SI	TE, COI	LON RO	AD,	Borehole Number 9RB
Machine : DOWN THE HOLE HAMMER Flush :	Dates 16/08/01 = 16/08/01	18/01		Client	ent LOUTH COUNTY COUNCIL	COUNCI				Sheet 2/2
Bit Size : Method :	Location AS PLAN			Engineer	Engineer KIRK McCLURE MORTON	MORTON				Ground Level (mOD)
Description		Depth m (Thickness)	Legend	Level (mOD)	Depth (m)	F	Samples / Tests	do	Water	er Daily Progress
Moderately strong grey fine graine LIMESTONE END OF BOREHOLE 47.0m.	Coursell CARBONIFEROUS Coursell described to the course of the course o	C	HARALIA III III III III III III III III III	a of the difference of the state of the stat	inge.					* Water struck at 45.00m.
Remarks Installed 100mm standpipe to 47.0m. Slotted from 47.0 to 14.0m. Gravel pack from 47.0 to 6.0m. Bentonite seal from 6.0 to 0.0m.									Scale 1:200 Figure No. 4230.9	Logged By DC. No.
Jar samples taken every metre.									Borehole	e 9RB

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	Investigations	ns Ltd	0	DROHE	DA LANDF DA	ILL SIT	DROHEDA LANDFILL SITE, COLLON ROAD, DROHEDA	N ROAD,		Number 11RB
DOWN THE HOLE HAMMER	Dates 15/08/01 - 15/08/01	8/01		Client	ent LOUTH COUNTY COUNCIL	COUNCIL				Sheet 1/1
	Location AS PLAN			Engineer KIRK 1	Engineer KIRK McCLURE MORTON	MORTON				Ground Level (mOD)
Description		Depth m (Thickness)	Legend	(mOD)	Deoth (m)	Sample	Samples / Tests	ī	Water	Daily Progress
BOULDER CLAY (OVERBURDEN) Moderately strong grey fine graine LIMESTONE	Consult frame of the first of t	S C C C C C C C C C C C C C C C C C C C		Oth any other me	- Se		4			
BOREHOLE 30.0m.		30.00			ç.				Water st	Water struck at 27.00m.
Remarks Remarks Installed 100mm standpipe to 30.0m. Slotted from 15.0 to 30.0m. Slotted from 30.0 to 13.0m. Bentonite seal from 13.0 to 6.0m Annulus backfilled with arisings. Lockable cover fitted.		mhummutannal				1			Scale Logge 1:200 DC Figure No. 4230.11RB	Logged By DC DC

APPENDIX B

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Water Table Contours __ _ _ ___ 10 mater Levels in Wells m O.D. .21

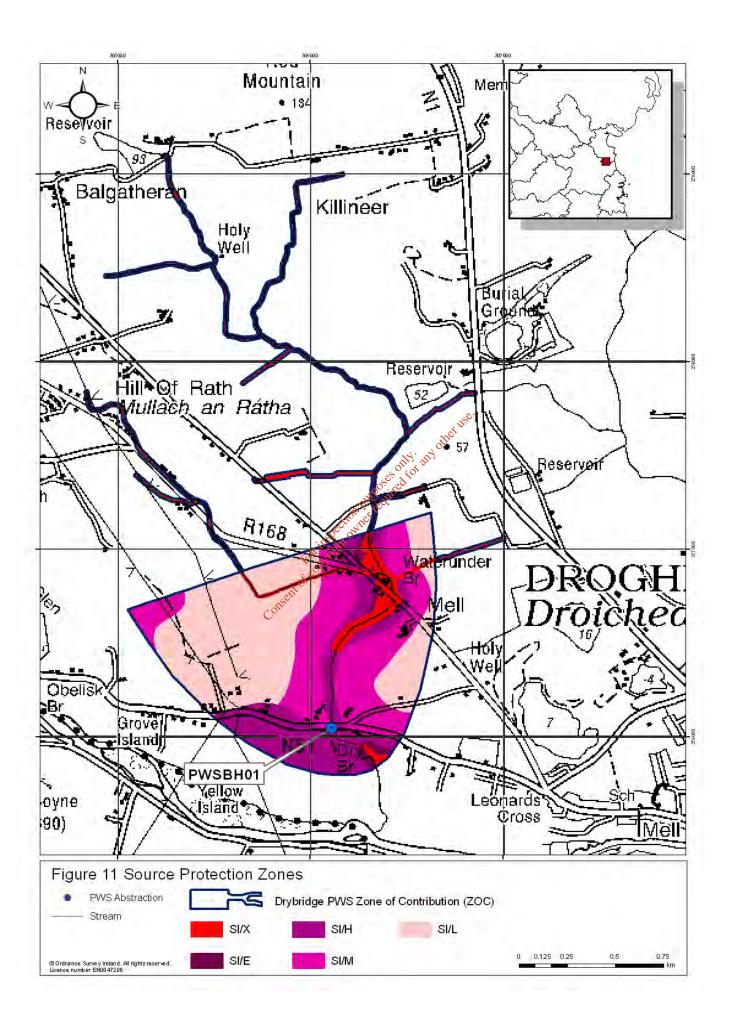
Boundary Aquifer ______

Scale 1: 63360

EPA Export 10-06-2021:02:43:39

APPENDIX C

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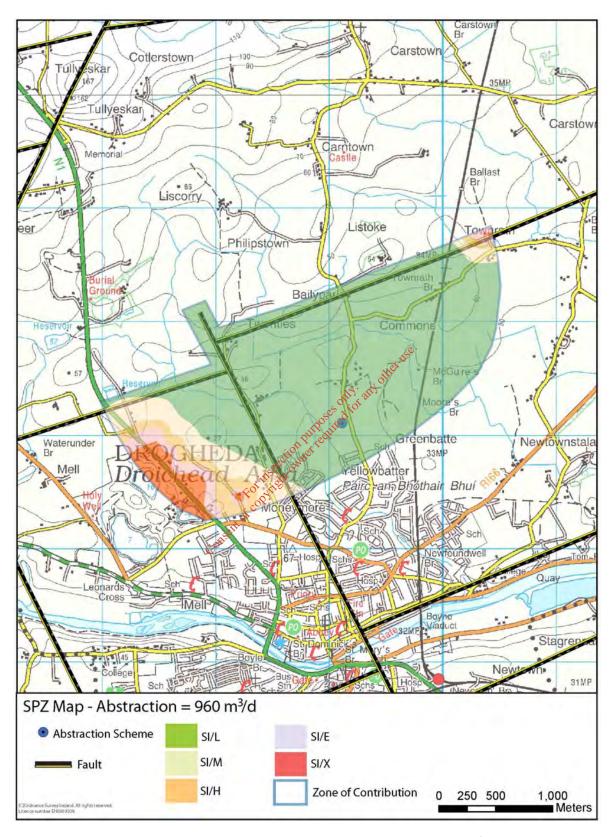
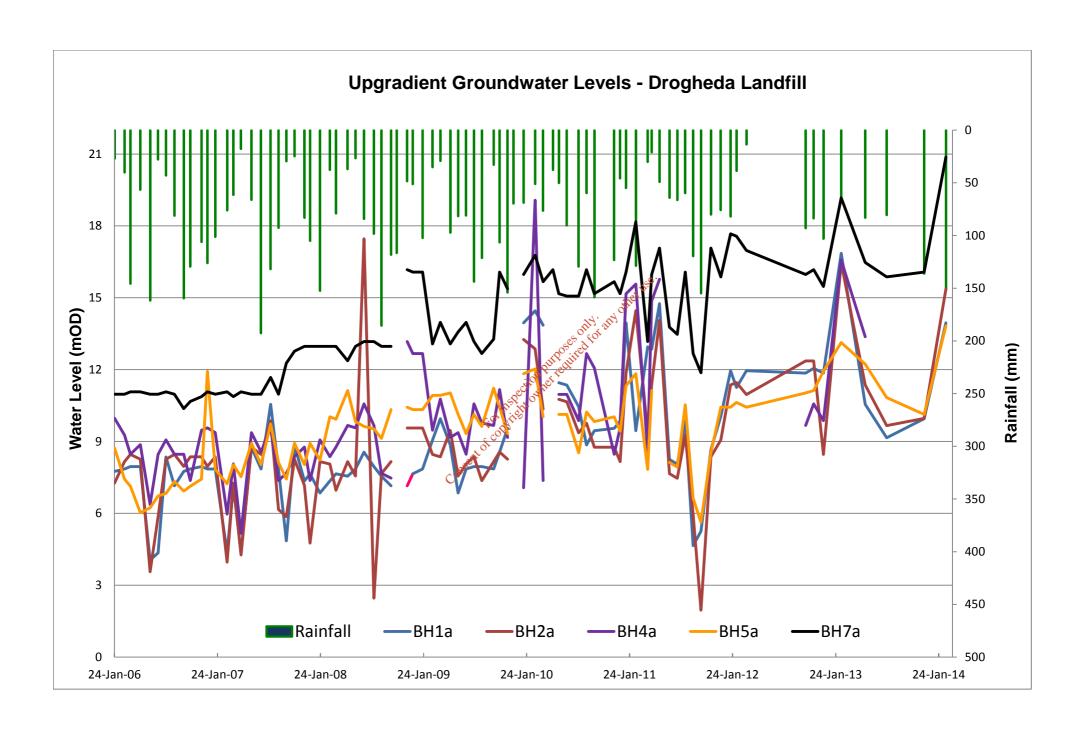
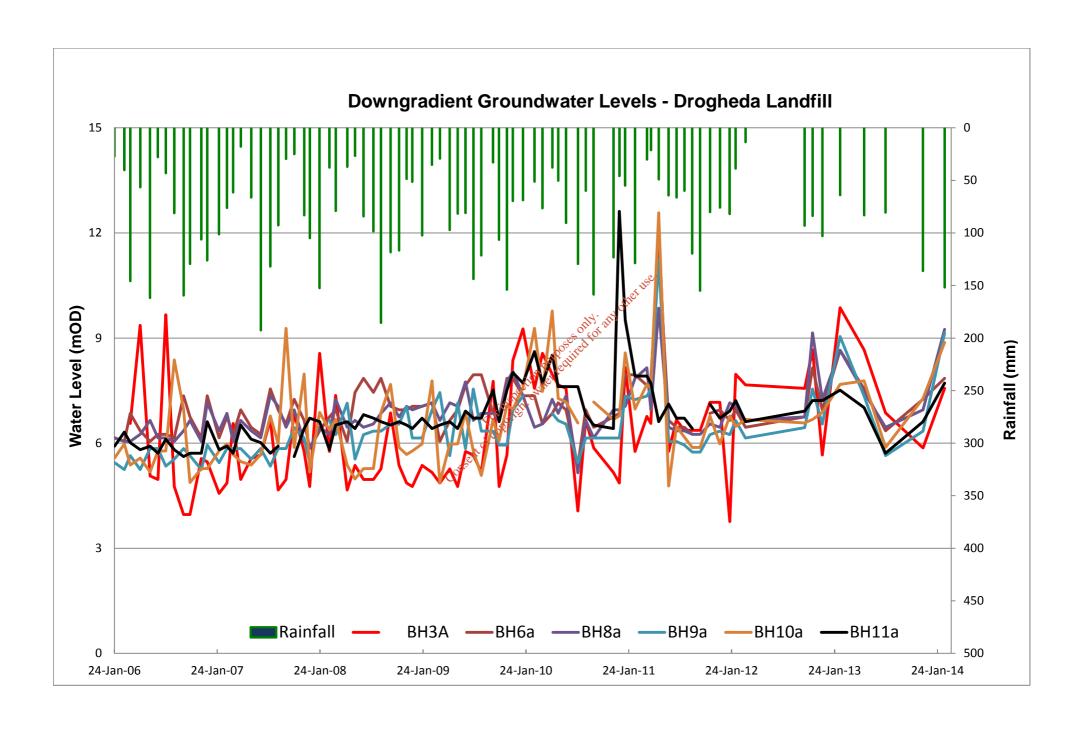


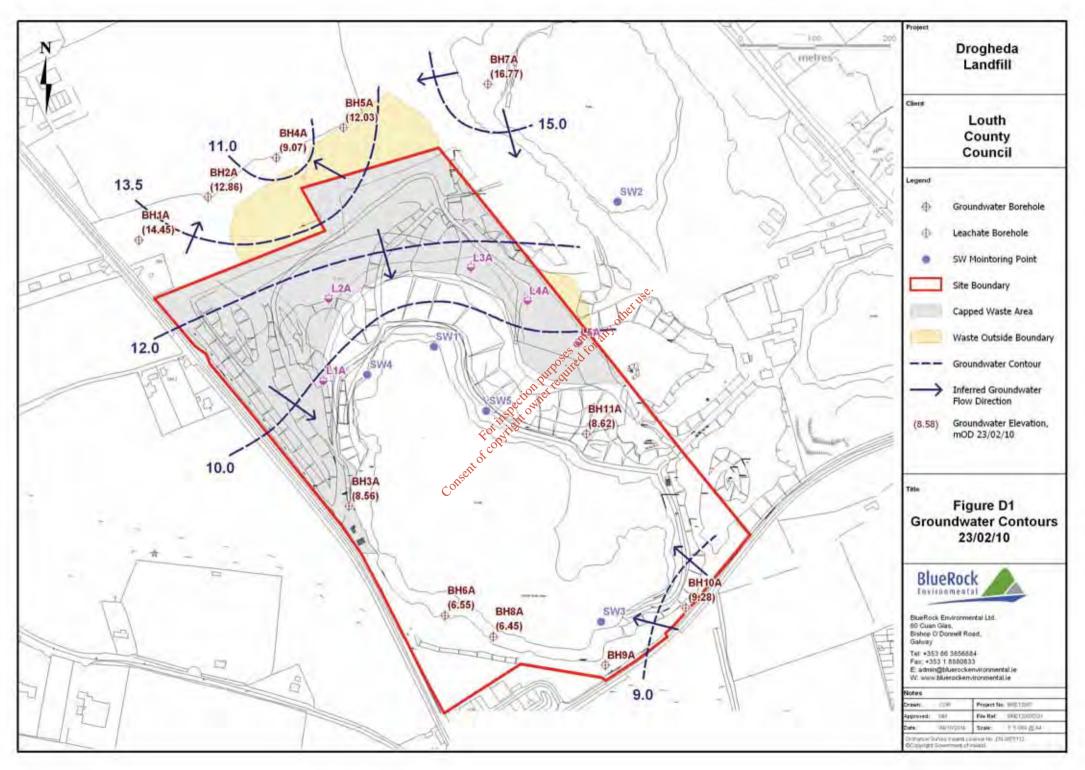
Figure 18: Source Protection Zones, Abstraction = 960 m³/d

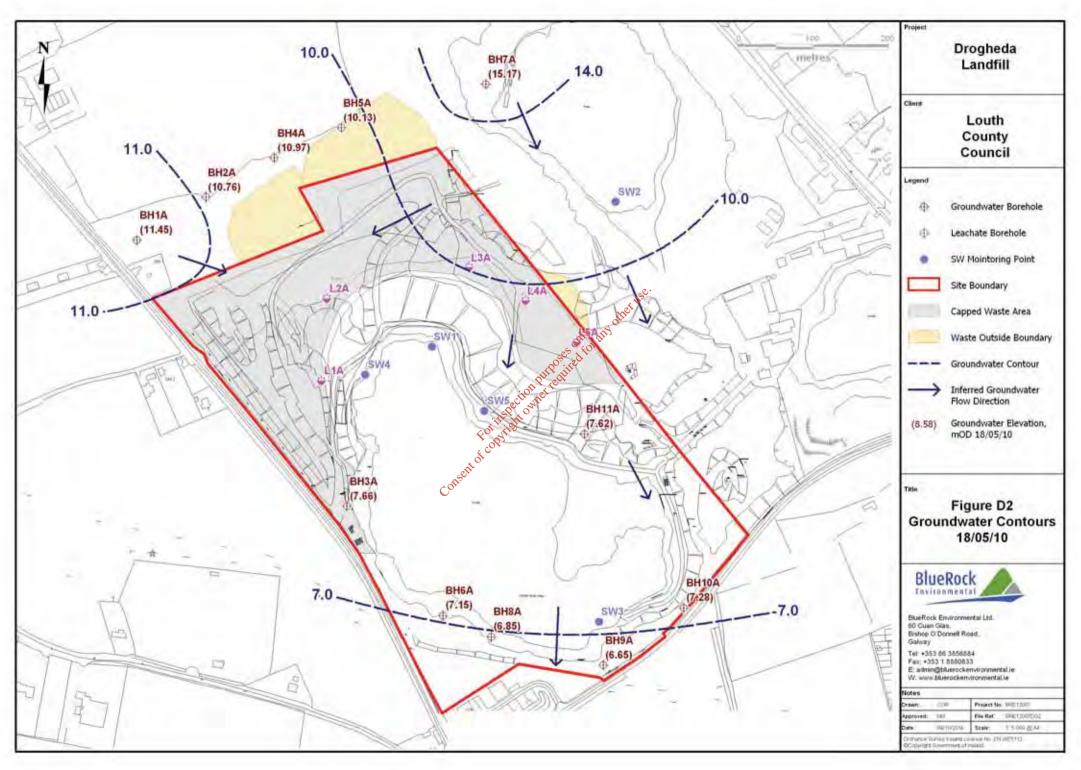
APPENDIX D

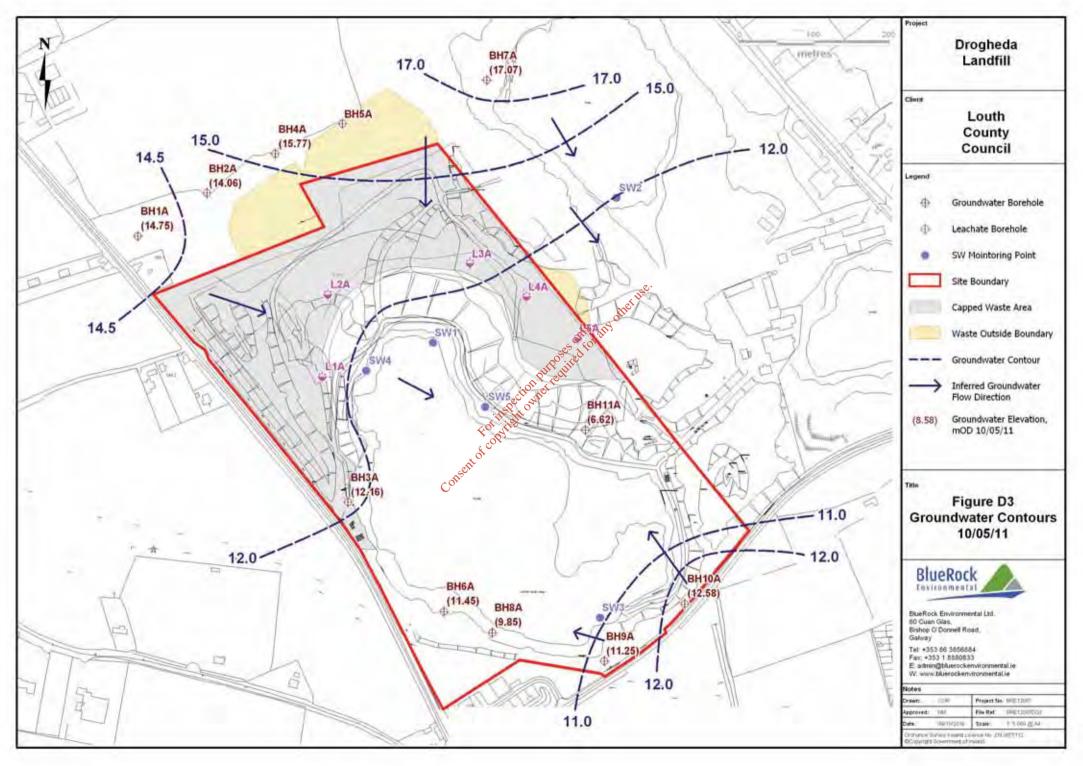
Consent of copyright owner required for any other use.

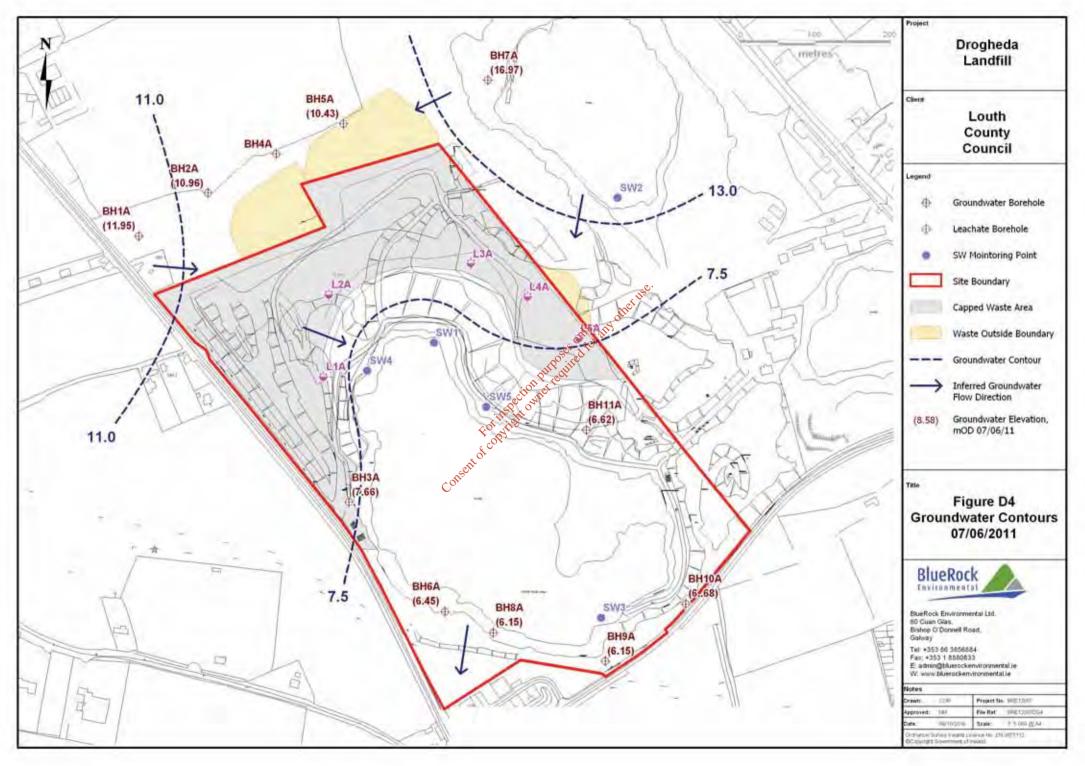


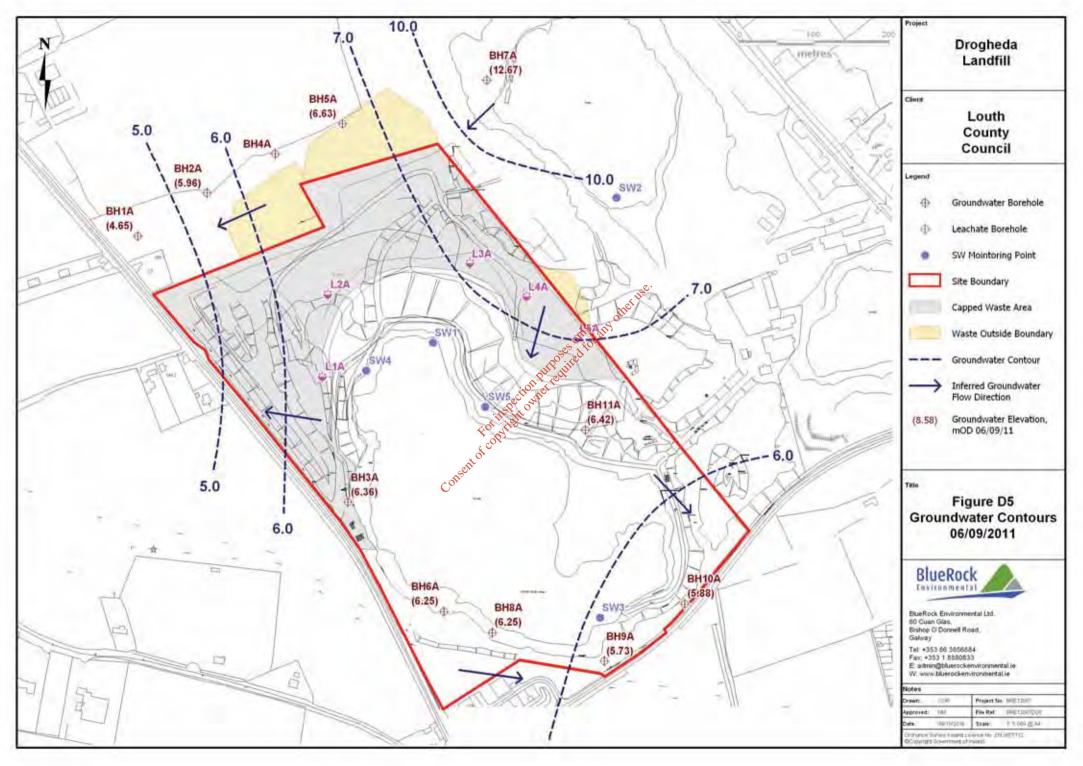


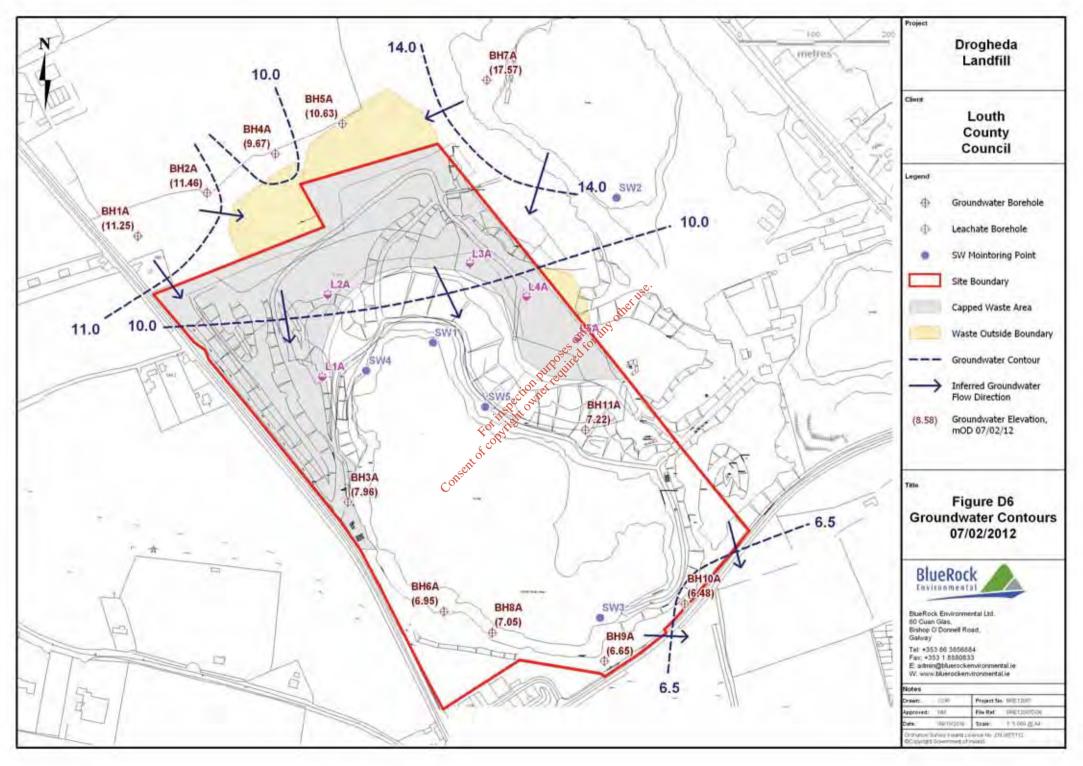


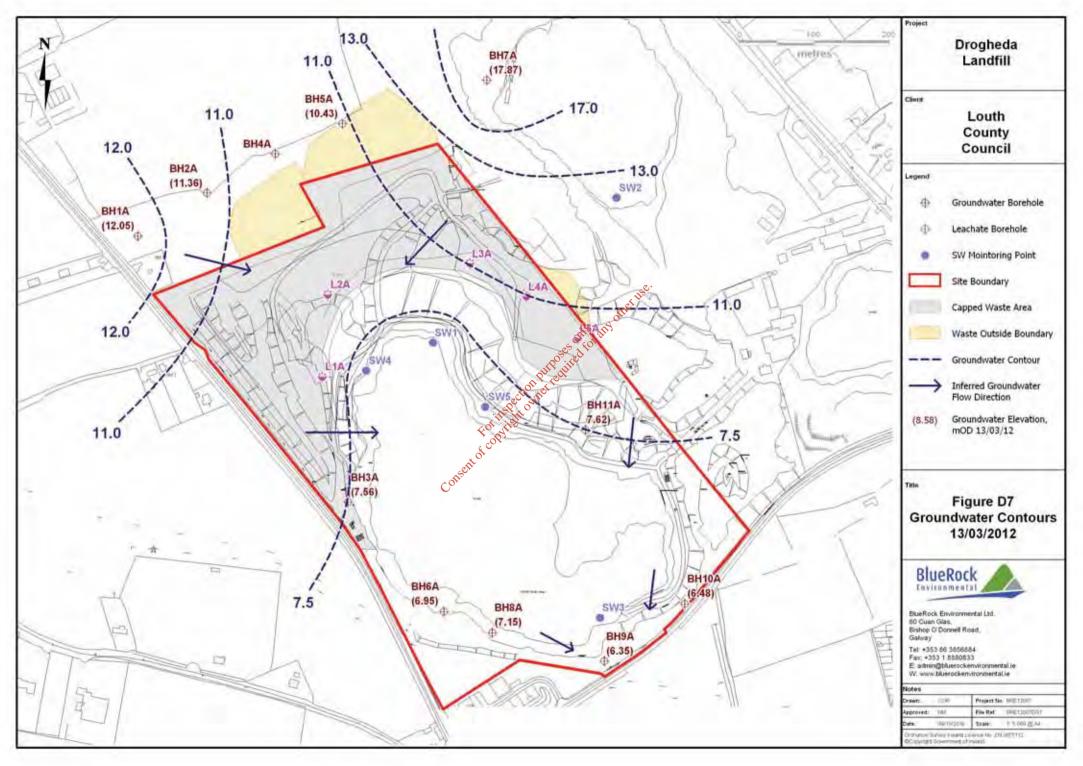


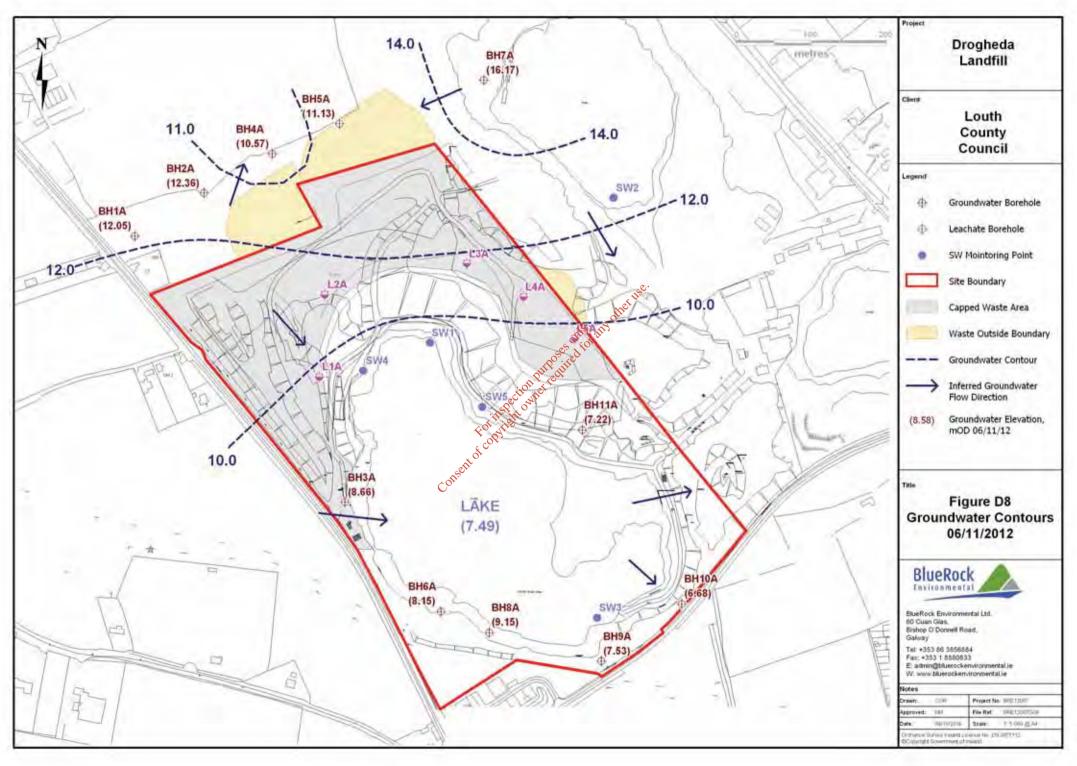


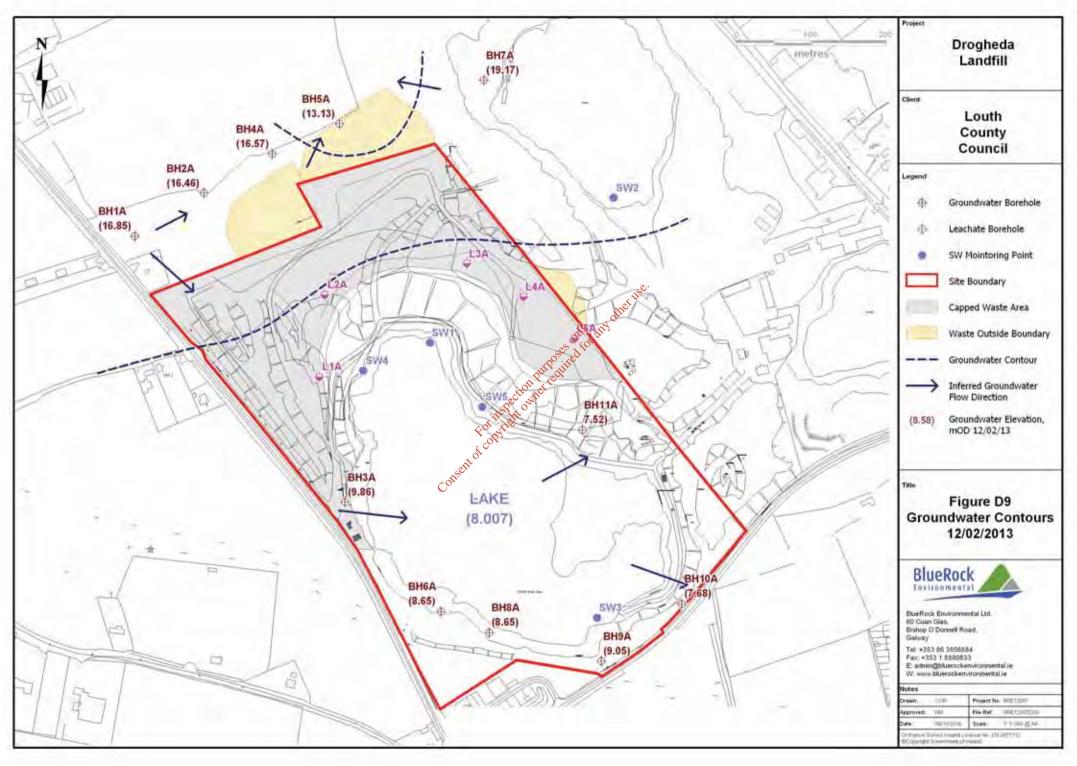


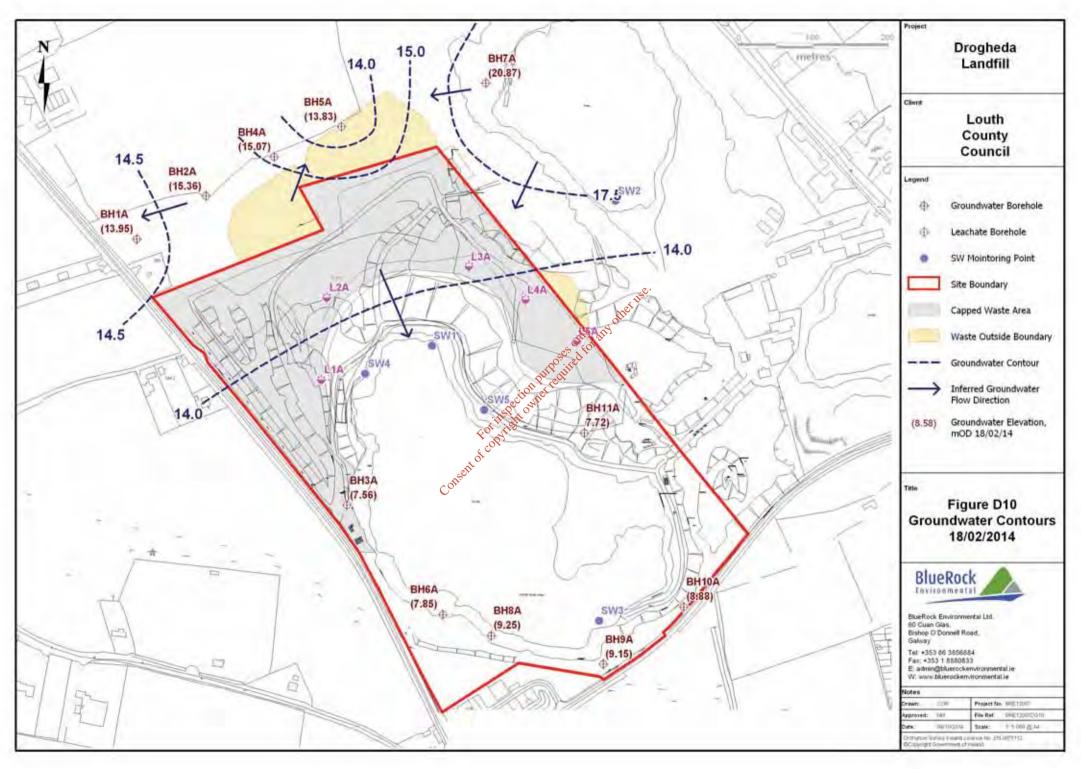












APPENDIX E

Consent of copyright owner required for any other use.

ate Collected		DIMP	101/	2010 011/ D	04 1 00	00 5-1-00	04.8400	05.400	00.1400	07 1 00	05 1-1 00	04.400	00.000	40.0-4.00		OREHOLE BH1/		07.5.1.07	04.8407	47.407	04.1407	07 1 07	04 1-1 07	00.407	05.007	04.0-4.07	00.1107	10.0007
kalinity	mg/l CaCO3	DWK	IGV	2010 GW Regs	24-Jan-06	26-Feb-06	21-War-06	25-Apr-06 344	30-May-06	27-Jun-06	25-Jui-06	24-Aug-06	20-Sep-06	19-001-06	28-Nov-06	19-Dec-06	16-Jan-07	27-Feb-07	21-War-07	360	24-May-07	27-Jun-07	31-Jul-07	28-Aug-07	25-Sep-07	24-OCT-07	28-NOV-U/	18-Dec-07
minium	ug/l	200	200	150				344												300								
monia	mg/l N		0.11 mg/l N	0.175	< 0.03	< 0.03	< 0.03	0.03	< 0.03	0.04	< 0.03	0.04	0.03	0.03	0.03	< 0.03	< 0.03	0.03	< 0.03	0.05	< 0.03	0.03	0.07	0.07	0.06	< 0.03	0.03	< 0.03
imonv	ug/l	5	.	******			.0.00	0.00		0.0.				0.00	0.00							0.00		0.01		10.00		10100
enic	ug/l		10	7.5																								
ium	ug/l		100		52.1	50.7	<50	52.3	56.1	<50	<50	<50	<50	<50	61.1	<50	61.8	56.7	<50	<50	<50	78.7	58.7	58.3	<50	<50	nm	<50
yllium	ug/l																											
).D.	mg/l O2																											
ron	μg/l	1000	1000	750				<50												<50								
dmium	μg/l	5	5	3.75	0.2	<0.10	0.3	<0.10	<0.10	<0.10	<0.10	0.2	0.7	0.5	0.2	0.3	<0.10	<0.10	0.3	0.3	0.2	<0.10	<0.10	<0.10	<0.10	0.2	<0.10	0.4
lcium	mg/l Ca		200					120												122.39								
O.D.	mg/l O2	050		187.5	45		0.4	00	00	00	07	00	07	00	00		40	00		00	00	40	0.5	0.4	00	00	00	- 00
nloride	mg/l Cl	250 50	30	187.5 37.5	45 10.4	22	31 6.1	7.7	3.4	20	27 2.9	30 4.7	37 8.3	33 2.7	3.8	32 2.3	18 4.0	23	29 4.6	26	26	18	25	24	29	30 2.3	30	33 2.4
hromium obalt	μg/l	50	30	37.5	10.4	5.5	0.1	1.1	3.4	<1	2.9	4.7	8.3	2.1	3.8	2.3	4.0	<1	4.0	<1	<1	<1	<1	<1	<1	2.3	<1	2.4
oliform Bacteria	(No/100 ml)	0																										
onductivity	µS/cm @ 25	2500	1000	1875	698	705	812	726	694	682	756	804	869	824	706	855	685	683	814	772	750	598	710	675	690	684	727	1577
opper	µg/l	2000	30	1500	000		0.2	6.4	00.	002		001	000	021	7.00	000	000	000	0	5.0		000	7.10	0.0	000	00.		10.7
vanide	mg/l	0.05	10					<0.05												<0.05								
.0.	% Saturation		-		60			65			55			35			62			50			66			53		
Coli	No/100 ml	0						0																				
uoride	mg/l	0.8	1000					<0.150												<0.150								
on	μg/l	200	200		219	222.1	219.9	440.6	261.6	270.8	330.8	487.5	430.1	308.6	233.6	134.9	355.6	402.6	361.2	431.1	410.4	238.6	396.4	357.7	354.5	308.8	291.2	236
ead	μg/l	25	10	18.75	8.2	6.6	2.8	9.6	4.9	<1	4.9	8.8	3.1	3.5	5.6	<1	4.5	6.2	4.3	5.0	3.9	4.9	3.4	2.8	2.2	2.6	2.8	<1
agnesium	mg/l Mg		50					10.3												9.31								ļ
anganese	μg/l	50	50		76.1	50.3	66.3	85	40.1	42.5	47.4	107.2	193.4	155.6	107.6	36.7	69.2	87.7	59.2	64.8	107.5	66.4	254.9	64.2	26.5	31.7	39.8	54.4
ercury	µg/l	1	1	0.75				<0.10												<0.10								
lolybdenum	µg/l	20	35	45	7.3	6.8	9.2	5.7	4.9	5	5.9	7.9	22.6	12.8	7.4	7.3	9.6	8.3	10.3	13.7	10.2	4.0	26.2	4.4	5.8	5.8	7.5	13.1
ickel itrite	μg/l mg/l N	20 0.5	20 0.1	15 0.375	0.06	0.007	<0.003	0.01	0.004	0.007	0.003	0.008	0.027	<0.003	0.012	0.003	0.004	0.007	0.004	0.008	<0.003	4.8 nm	0.018	0.011	0.014	0.011	0.013	0.004
Phosphate	mg/I P	0.5	30	0.373	0.06	0.007	<0.003	0.01	0.004	0.007	0.003	0.006	0.027	<0.003	0.012	0.003	0.004	0.007	0.004	0.008	<0.003	11111	0.016	0.011	0.014	0.011	0.013	0.004
4	iligiii	6.5 - 9.5	30		7.3	7.2	7.2	7.3	7.3	7.2	7.4	7.3	7	7.1	7.2	7.1	7.3	7.0	6.8	7.0	7.0	7.4	7.1	7.0	7.1	7.2	7.2	7
henol	mg/l	0.0 0.0	0.0005		0.014	0.004	0.168	<0.001	0.179	0.127	<0.001	0.008	<0.001	<0.001	0.11	<0.001	0.007	<0.001	<0.001	<0.001	<0.01	nm	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
otassium	mg/l		5		2.52	2.37	4.89	2.96	3.11	1.89	3.64	3.8	6.16	5.17	3.58	4.46	2.43	2.77	4.91	4.12	4.74	2.02	3.95	2.69	3.36	4.19	4.83	7.52
ampling Depth	m				24.2	24.1	24	24	27.9	27.6	23.6	24.8	24.2	24.1	24	24.1	24.1	27.6	24.8	27.6	23.2	24.1	21.4	24.1	27.1	23.1	24.6	24.3
elenium	μg/l	10																										
ilver	μg/l																											
odium	mg/l	200	150	150	15.36	11.23	21.74	16.5	17.2	11.72	16.79	16.97	16.63	16.76	17.9	15.71	12.42	14.44	16.71	16.76	18.32	12.07	14.46	15.31	14.46	16.49	19.08	23.76
rontium	μg/l																											
ulphate	mg/I SO4	250	200	187.5	1			19.7	1							1	-			21.6	1		1		-			+
uspended Solids	mg/I	1			0.5	7	6	12.1	14	12	21.1	12	10	14.4	0	0	0.5	12.0	0.0	15.0	15.0	15.0	10.6	15.0	10.0	12.6	10	11
emp nallium	ua/l	1			9.5	'	6	13.1	14	13	21.1	13	12	14.4	9	9	9.5	12.0	9.0	15.0	15.0	15.0	19.6	15.0	10.0	12.6	12	11
me sampled	µg/l	 			1	1		11.2	11.35	11.35	11.3	11.35	11.4	11.2	11.3	11.3	11.25	11.20	11.30	11.20	11.25	11.00	11.15	11.20	11.35	11.25	10	11.55
n (µg/l)	μg/l				+	<u> </u>	<u> </u>	11.2	11.00	11.00	11.5	11.00	11.7	11.2	11.0	11.5	11.20	11.20	11.00	11.20	11.20	11.00	11.10	11.20	11.00	11.20	10	11.00
Ο.C.	mg/l	NAC			137.5			2.6			4			<1.5		150	<1.5			1.5			2.3		<u> </u>	<1.5		
O.N	mg/l N		NAC		1.64	1.72	3.01	1.71	1.45	1.06	2.22	2.9	4.06	3.57	2.04	3.39	1.66	1.92	3.33	2.84	2.74	1.16	2.95	1.96	2.34	2.95	3.41	5.29
otal S Solids	mg/l		-													N. Comment												
ranium	μg/l														1. 4	Ψ												
anadium	μg/l														12,00													
nc	μg/l		100		22.3	17.8	16.3	22.3	13.7	15.7	16.9	22.4	25.6	25	27.8	54.3	31.0	24.5	23.3	21.9	3.7	16.3	6.6	16.2	10.7	38.3	31.7	32.6
															is 9 to													
														alipa	JII	OREHOLE BH1/												
te Collected		DWR	IGV	2010 GW Regs	22-Jan-08	26-Feb-08	19-Mar-08	29-Apr-08	27-May-08	26-Jun-08	31-Jul-08	27-Aug-08	30-Sep-08	20 Oct-08			20-Jan-09	24-Feb-09	24-Mar-09	28-Apr-09	26-May-09	23-Jun-09	21-Jul-09	18-Aug-09	29-Sep-09	20-Oct-09	17-Nov-09	08-Dec-09
	mg/l CaCO3	†			1			360						10° 65				1	1	356		1	1		1 1 1 1 1			

														S	9 0													
														ali Pali	JII. B	OREHOLE BH1A	١											
Date Collected		DWR	IGV	2010 GW Regs	22-Jan-08	26-Feb-08	19-Mar-08	29-Apr-08	27-May-08	26-Jun-08	31-Jul-08	27-Aug-08	30-Sep-08	20 Oct-08	26-Nov-08	16-Dec-08	20-Jan-09	24-Feb-09	24-Mar-09	28-Apr-09	26-May-09	23-Jun-09	21-Jul-09	18-Aug-09	29-Sep-09	20-Oct-09	17-Nov-09	08-Dec-09
Alkalinity	mg/l CaCO3							360						io et						356								
Aluminium	ug/l	200	200	150										71 M														
Ammonia	mg/l N		0.11 mg/l N	0.175	< 0.03	< 0.03	0.03	0.05	0.03	< 0.03	0.13	0.06	0.03	0.04	0.04	<0.03	<0.03	<0.03	< 0.03	< 0.03	0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03
Antimony	ug/l	5											1115	N.														
Arsenic	ug/l		10	7.5									~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	9														
Barium	ug/l		100		<50	<50	<50	<50	<50	<50	<50	<50	57.2	66.5	<50		<50	<50	<50	<50	<50	<50	<50	52.9	58.56	<50	53.6	51.3
Beryllium B.O.D.	ug/l												COX.															
	mg/l O2	4000	1000	750				<50					80							<50								
Boron Cadmium	μg/l	1000	5	750 3.75	0.4	0.6	0.5	<50 0.3	0.3	1.1	0.5	0.4	0.2	<0.10	0.5	0.4	0.6	0.4	0.5	<50 0.4	0.4	0.5	0.2	0.3	0.2	0.4	0.3	0.2
Calcium	μg/l	э	200	3./3	0.4	0.0	0.5	135.57	0.3	1.1	0.5	- · · · · · · · · · · · · · · · · · · ·	r	<0.10	0.5	0.4	0.6	0.4	0.5	130.2	0.4	0.5	0.2	0.3	0.2	0.4	0.2	0.2
C.O.D.	mg/l Ca mg/l O2	1	200					133.37				COURT								130.2								
Chloride	mg/I CI	250	30	187.5	32	30	32	28	28	36	33	36	30	28	32	31	30	27	28	25	26	28	24	22	20	27	12	24
Chromium	μg/l	50	30	37.5	<1	<1	3.5	<1	2.4	11.4	<1	<1	<1	<1	<1	<1	4.5	3.5	1.5	2.9	3	7.4	6.4	6.4	5.5	2.7	7.1	6.5
Cobalt	ug/l	- 00	50	01.0			0.0	~1	2.4	11.4			\ \ \				4.5	3.3	1.5	2.5		7.4	0.4	0.4	5.5	2.7	7.1	0.5
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	uS/cm @ 25		1000	1875	816	840	929	725	716	824	765	760	752	709	812	796	808	778	791	769	776	801	697	673	651	766	684	715
Copper	μg/l	2000	30	1500				4												9.2								
Cyanide	mg/l	0.05	10					< 0.05												<0.01								
D.O.	% Saturation				50			45			34			47			42			44			nm	62		46		
E_ Coli	No/100 ml	0						0																2				
Fluoride	mg/l	0.8	1000					<0.150												<0.150								
Iron	μg/l	200	200		186	285	293.3	212.5	376.6	375.3	262.1	292.6	245.5	329.2	220.4	180.1	214	172	172.3	196	206.3	64.4	<50	<50	139.53	91.3	74.0	72.5
Lead	μg/l	25	10	18.75	<1	3	2.5	2.7	4.4	4.6	3.2	5	3.1	5.6	2.8	2	3.2	2.1	2	5.2	3.5	2.6	1.4	1.3	3.23	2.6	3.6	3.8
Magnesium	mg/l Mg		50					9.75												9.31								
Manganese	μg/l	50	50		27.1	91.3	76	58.2	70.9	255.4	119.1	93.4	40.6	70.8	66.4	30.7	71.1	22.4	33.3	39.5	31.8	47.4	16.7	23.8	39.44	51.3	18.8	26.4
Mercury	μg/l	1	1	0.75				<0.10												<0.1								
Molybdenum	μg/l		35																									
Nickel	µg/l	20	20	15 0.375	10.6	13.3	13.1	9	8.4	38.3	11.3	9.4	5.5	6.5	10.8	10.6	12.8	8.9	12.4	9.3	9.6	11.4	7.1	6.9	4.96	8.4	5.2	5.2
Nitrite	mg/l N	0.5	0.1	0.375	0.007	0.006	0.007	0.019	0.009	0.004	0.024	0.149	0.01	0.01	0.003	0.003	0.005	0.004	0.002	0.003	0.002	0.002	<0.002	0.007	<0.002	<0.002	<0.002	0.003
o-Phosphate	mg/l P	05.05	30		0.0	0.0	7	0.03	7.0	0.0	7	7.0	7.4	7.0		7.4	<0.02			0.04	7.4	7.4	_					
рн Phenol		6.5 - 9.5	0.0005		6.9 0.02	6.9 0.03	7 0.02		7.2 <0.01	6.9 <0.01	7 nm	7.2 0.03	7.1	7.2 0.03	6.9 <0.01	7.1	7	7.1	6.9		7.1 <0.002	7.4 <0.002	7	7.1	7.3	6.9	7.2	7.0
Potassium	mg/l		0.0005 5		6.33	6.6	6.72	<0.01 4.92	4.04	6.59	5.34	5.72	<0.01	3.41	6.76	6.24	<0.01 6.94	<0.01 4.81	<0.016	<0.002 4.81	5.62	6.69	nm 4.45	<0.002 3.68	<0.015 3.29	<0.015 6.32	<0.0005 4.85	<0.015 4.46
	mg/l	1	3		25.1	24.6	24.3	24.4	24.1	23.4	24	24.4	24.8	3.41 nm	24.8	24.3	24.1	22.9	22	23.1	25.1	24.1	24	24	24.1	23.4	22.4	4.46 nm
Sampling Depth Selenium	μg/l	10			20.1	24.0	24.5	24.4	24.1	25.4	24	24.4	24.0	11111	24.0	24.3	24.1	22.9	22	23.1	23.1	24.1	24	24	24.1	23.4	22.4	IIIII
Silver	µg/l																			+								
Sodium	mg/l	200	150	150	19.57	18.82	20.98	16.44	14.21	18.55	16.52	17.76	16.69	16.28	17.81	18.34	19.26	16.11	17.38	15.63	16.53	13.94	14.6	13.76	13.34	16.39	16.61	13.68
Strontium	μg/l													.0.20			15.20	10.11	27.50				20	15.70	13.34	10.55	10.01	15.00
Sulphate	mg/l SO4	250	200	187.5				20.9												20.4								
Suspended Solids	mg/l																											
Temp	°C				9	11	11	12	nm	15.6	15.5	14	13	8.3		10	7	12	11	15	13	13	16	14.6	11	10.3	10.0	10.1
Thallium	μg/l																											
Time sampled					nt	11.35	11.3	11.3	11.15	11.15	11.1	11.25	11.35	11	11.3	10.55	11.3	13.15	11.3	11.15	11.2	11.2	11	10.45	11.15	11.00	9.35	11.15
Tin (μg/l)	μg/l																											
T.O.C.	mg/l	NAC			1.7			2.9			1.7			<1.5			2.8			2.2			<3.0			<3.0		
T.O.N	mg/l N		NAC		4.7	4.88	4.46	3.38	3.31	5.56	4.3	4.01	2.7	2.27	5.1	4.31	4.79	3.27	3.51	2.99	4.28	4.09	2.94	2.95	2.21	3.81	2.95	2.74
Total S Solids	mg/l																											
Uranium	μg/l																											
Vanadium	μg/l																											
Zinc	μg/l		100		30.2	29	29.8	25.3	6.8	59.4	23.4	29.3	27.1	50.9	23.6	29.7	37.4	43.7	30.5	32.6	28.5	23.3	20.2	15.3	112.21	19.8	22.6	26.9

Collected		DWR	IGV	2010 GW Regs	13-Jan-10	23-Feb-10	23-Mar-10	27-Anr-10	18-May-10	15-Jun-10	27-Jul-10	24-Aug-10	21-Sen-10	19-Oct-10	30-Nov-10	21-Dec-10		15-Feb-11	29-Mar-11	12-Apr-11	10-May-11	14-Jun-11	12-Jul-11	09-Aug-11	06-Sep-11	04-Oct-11	08-Nov-11	13-Dec-
nity	mg/l CaCO3	Divik	101	2010 OW Regs	10-0411-10	2010010	25-mai-10	336	10 May 10	15-0411-10	27 001 10	24 Aug 10	21 OCP 10	15 001 10	30 1101 10	21 000 10	11-0411-11	1010011	25 mai - i i	332	10 may 11	14 0011 11	12-001-11	00 Aug 11	00 OCP 11	04-001-11	00 1107 11	10 000
ium	ug/l	200	200	150				330												332								+
iia	mg/l N		0.11 mg/l N	0.175	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	0.04	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.0
nv	ug/l	5	g,																									
:	ug/l		10	7.5																								
	ug/l		100		39.3	39.1	51.5	34	16.9	21.4	35.8	23.6	36.0	32.1	77.7	57.6	45.7	26.8	52.7	39.4	25	32.1	21.6	18.8	20.7	22	25.2	
n	ug/l																											
	mg/I O2																											
	μg/l	1000	1000	750				30.3												24.3								
m	μg/l	5	5	3.75	0.5	0.3	0.2	0.4	0.4	0.2	0.3	0.4	0.2	0.4	<1	<1	<1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.3	0.1	1
1	mg/l Ca		200					126.65												148.12								
	mg/l O2																											
)	mg/l Cl	250	30	187.5	27	21	26	28	30	28	27	29	26	29	38	19	22	28	22	25	28	42	51	38	37	34	27	1
um	μg/l	50	30	37.5	<1	1.5	<1	<1	<1	<0.5	< 0.5	<0.5	<0.5	0.6	<5	<5	<5	2.2	<0.5	<0.5	<0.5	0.8	< 0.5	<0.5	< 0.5	<0.5	<0.5	
	μg/l																											
Bacteria	(No/100 ml)	0																										
ctivity	µS/cm @ 25	2500	1000	1875	744	713	670	749	805	2970	745	799		783	589	613	686	784	644	2190	765	685	832	834	822	891	899	63
	μg/l	2000	30	1500				4												2.1								
)	mg/l	0.05	10					< 0.05												< 0.05								
	% Saturation				74			32			51			34			70			58			24					
	No/100 ml	0						0												nm								
	mg/l	0.8	1000					< 0.150												< 0.150								
	μg/l	200	200		54.6	36.2	127.4	30.1	62.8	66.6	91.3	55.2	52.0	31.5	409.9	<100	<100	<10	77.8	76.1	51.6	23.8	15.6	<10	<10	<10	<10	
	μg/l	25	10	18.75	2.5	1.4	5.4	1.9	1.3	1.9	14.4	1.5	1.8	8.0	10.6	<5	<5	<0.5	1.8	2.4	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ium	mg/l Mg		50					8.4												11.08								
iese	μg/l	50	50		42	16.9	42.1	27.8	27.2	34.4	79.9	69.0	46.4	81.4	203.9	18.3	19.6	4.2	52.4	65.3	23.7	31.2	14.1	12.9	22.6	10.1	5.8	
/	μg/l	1	1	0.75				<0.1												< 0.05								
enum	μg/l		35																									
	μg/l	20	20	15	9.2	8.5	7.1	8.1	9.3	6.9	3.8	8.2	4.5	9.0	5.2	<5	5.4	5.4	0.9	5	4.2	4.3	7.2	5.7	9.7	6.6	0.9	
	mg/l N	0.5	0.1	0.375	0.002	< 0.002	<0.002	0.004	0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	nm	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002	<0.0
hate	mg/l P		30					0.02												0.02								
		6.5 - 9.5			7	7	7.3	7	7	7.1	7.1	7.0		7.1	7.4	7.2	7.1	7.4	7.0	7.1	7	7.2	7	7.2	7.1	7.1	7.3	7
	mg/l		0.0005		< 0.015	< 0.015	< 0.015	< 0.015	<0.2	< 0.1	< 0.025	< 0.015	< 0.015	< 0.025	< 0.015	< 0.025	< 0.025	< 0.025	< 0.01	< 0.013	< 0.013	<0.008	<0.008	< 0.016	< 0.016	< 0.016	< 0.025	
um	mg/l		5		5.37	5.87	5.09	6.1	6.07	6.03	7.25	6.42	4.59	6.91	2.83	3.23	4.32	5.45	3.90	6.07	5.42	4.48	6.54	7.83	8.4	8.56	6	
g Depth	m				18	17.5	18.1	nm	20.5	20.6	21.5	23.1	22.5	nm	22.4	22.1	18.0	22.5	19.0	19.1	17.2	23.7	23.9	22.1	27.3	26.7	23.3	21
m	μg/l	10																										
	μg/l																											
	mg/l	200	150	150	14.03	14.66	16.34	15.96	15.04	16.91	12.97	16.21	15.21	18.62	12.98	12.38	13.86	15.24	14.10	17.54	16.21	13.68	14.78	16.05	18.23	19.19	15.68	
n	μg/l	l																										
e	mg/I SO4	250	200	187.5				22.8												21.1								
ded Solids	mg/l	1																										4
	°C	1			6.8	9.4	11	15.5	12	12	21.0	12.2	16.0	11.3	9.7	9.7	8.9	11.2	11.5	14.8	15	13.3	12.8	13	13.9	14	12.4	11
	μg/l	1														- Sec.												
npled		1			11.1	11.2	11.15	11.2	11.1	11.15	10.35	11.15	11.45	nt	14:35	10:35	11.30	11:15	11:05	11:05	11:15	11:15	11:25	13:50	13:15	11:20	12:10	14
	μg/l	l														20°												4
	mg/l	NAC			4.6			<1.5			1.5			83.0		N.	2.4			71			3.4					
- P - I -	mg/l N	1	NAC		3.09	2.67	2.84	4.05	4.2	3.89	3.56	4.19	3.19	3.84	1.70	1.95	2.86	3.90	2.55	4.7	3.7	2.86	3.67	3.95	3.77	3.28	3.29	1
olids	mg/l	1													My all													
	μg/l	1													01/2/													4
n	μg/l	1													2 10													
	μg/l		100		27.2	23.3	34.1	23.6	21.3	13.9	16.1	16.0	13.9	17.7	52.8	32.2	63.1	15.7	15.9	28	16.1	69	13.7	11.1	21.2	16.9	14.6	1

														25,100	ξ													
														io of		OREHOLE BH1A												
Date Collected		DWR	IGV	2010 GW Regs	17-Jan-12	07-Feb-12	13-Mar-12	24-Apr-12	15-May-12	07-Jun-12	24-Jul-12	14-Aug-12	11-Sep-12	09-0ct-12	06-Nov-12	11-Dec-12	31-Jan-13	12-Feb-13	26-Mar-13	16-Apr-13	08-May-13	11-Jun-13	23-Jul-13	07-Aug-13	17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium	mg/l CaCO3	200	200	150				320 <5	<5	5.6	<5	<5	<511 ⁵ X	<5	<5	<5	<5	55		344 <5	<5	113.7	<5	<5	<5	<5	<10	<10
Ammonia	mg/l N		0.11 mg/l N	0.175	<0.03	<0.03	<0.03	0.12	<0.03	<0.03	<0.03	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	0.03	<0.03	<0.03	<0.03	0.03	0.035	0.02
Antimony	ug/l	5	o.rr mg/m	0.110	10.03	10.05	10.03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.55	<0.5	<0.5	<0.5	V0.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1
Arsenic	ug/l		10	7.5				1.16	2.55	2.4	1.85	1.61	152	2.16	2.76	0.89	0.6	1.24		2.29	1.27	1.12	1.58	2.42	1.95	1.5	2.14	3.24
Barium	ug/l		100	7.0	34.2	26.2	14.9	24.7	43.6	40.8	32.6	68.6	€ 61.4	49	36.2	63.4	84.2	75		26.5	17.8	66.1	33.3	18.4	19.9	19.1	46.8	29.7
	ug/l							<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<1	<1
Beryllium B.O.D.	mg/l O2											á	(II)															
Boron	μg/l	1000	1000	750	21.4	25.8	25.3	21.7	16.4	18	22.1	17.8 🝣	16.2	21.8	21.5	15.5	11.7	14.3		20	21.3	17	26.8	22.8	21.6	22.4	21.6	27.6
Cadmium	μg/l	5		3.75	<0.1	<0.1	0.1	0.3	<0.1	<0.1	0.2	0,10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0.1
Calcium	mg/l Ca		200		111.28	126.48	132.28	144.66	106.88	113.97	132.43	92.43	96.8	112.86	117.5	78.15	81.1	85.97		131.99	136.73	114.28	135.45	139.73	138.33	147.88	102.77	104.95
C.O.D.	mg/l O2																											
Chloride	mg/l Cl	250	30	187.5	23	26	30	32	21	21	26	17	20	21	22	15	13	16	14	27	29	19	25	30	39	39	26	28
Chromium	μg/l	50	30	37.5	<0.5	1.6	0.7	<0.5	0.9	0.9	<0.5	<0.5	0.5	1.2	1.5	<0.5	<0.5	0.9		1.6	1.4	0.7	1.5	0.9	1	1.7	1.3	3.9
Cobalt	μg/l							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<1	<1
Conductivity	(No/100 ml)	0 2500	1000	1875	726	711	702	248	591	677	787	619	617	676	738	EG1	508	E46	422	21	819	626	752	820	849	860	650	704
Conductivity	μS/cm @ 25 μg/l	2000	30	1875	736 1.2	711	792 2.6	808 3.9	1.2	1.3	2.8	2.5	1.2	1	0.9	561 0.9	1.1	546 1.8	422	761 2.2	4.9	636 6.5	3.9	820 4.5	3.5	5.1	2	704
Copper Cyanide	mg/l	0.05	10	1000	1.2	1	2.0	<0.05	1.2	1.3	2.0	2.0	1.2	'	0.9	0.9	1.1	1.0		<0.05	4.9	0.0	3.8	4.0	3.3	3.1		
D O	% Saturation	0.03	10		60			21			39			56			51			32			28			30		
E Coli	No/100 ml	0			00			20			- 55			50			- 01			0			20			- 50		
Fluoride	mg/l	0.8	1000					<0.150												<0.150								
Iron	μg/l	200	200		<10	<10	15.5	<10	<10	16	<10	<10	<10	<10	<10	<10	<10	101.3		11.4	<10	256.8	21.9	<10	20	<10	<10	<10
Lead	µa/l	25	10	18.75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4		<0.5	<0.5	5.2	<0.5	<0.5	<0.5	< 0.5	<1	<1
Magnesium	mg/l Mg		50		9.18	10.23	8.91	9.5	9.62	8.96	10.28	8.74	9.29	10.47	9.7	9.28	8.92	9.17		10.32	9.08	10.47	10.27	9.82	9.14	9.27	9.99	9.41
Manganese	μg/l	50	50		3.8	2.4	1.8	5.8	2	4	3.8	8.8	3.4	5.6	1.7	1.5	4.6	32.2		3.2	1.2	208.4	3	1.5	1.9	1.5	<5	<5
Mercury	μg/l	1	1	0.75	nm	nm	nm	< 0.05	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm		< 0.05	nm	nm	nm	nm	nm	nm	nm	nm
Molybdenum	μg/l		35					<0.5	0.9	0.7	<0.5	0.8	0.5	0.8	0.9	<0.5	<0.5	<0.5		0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<1	<1
Nickel	μg/l	20		15	1.3	0.7	3.5	4.8	1.1	0.5	3.4	1	1	<0.5	<0.5	<0.5	<0.5	1.8		5.1	7.4	5.8	2.8	4.6	4.3	6.3	1.4	1.9
Nitrite	mg/l N	0.5	0.1	0.375	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	0.002	0.004	0.005	< 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	<0.004	<0.004
o-Phosphate	mg/l P		30					0.05			_					_				0.07								
pH		6.5 - 9.5	-		7.3	7.3	7.2	7	7.2	7.4	7	7.3	7.1	7.4	6.8	7	6.1	7.4	7.4	7.1	7.2	7.3	7.2	7.4	7.1	7.1	7.3	7.1
Phenol Potassium	mg/l mg/l		0.0005		<0.002 4.15	<0.002	<0.002 6.05	<0.025 6.99	<0.002 3.36	<0.025 3.43	<0.002 5.29	<0.002	<0.002 2.21	<0.002	<0.002	<0.002 1.62	<0.002	<0.002 1.81	<0.002	<0.002 5.68	<0.002	<0.002	<0.002 5.31	<0.002	<0.002	<0.002 7.72	<0.002 3.84	<0.002 4.47
Sampling Depth	m		3		20	20.7	19.9	20	22.5	20	19.9	20.3	20.3	20.6	20.1	19.9	17.6	15.1	15.7	19.9	21.4	20.9	22.8	23.2	24.1	22.6	22.9	22
Selenium	μg/l	10			20	20.7	13.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	13.7	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<1	<1
Silver	ug/l							0.8	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm		nm	10.0	٧٥.٥	0.0	40.0	٧٥.٥	V0.0	~ ~ ~	~1
Sodium	mg/l	200	150	150	14.7	15.25	16.71	16.98	13.33	13	15.31	11.25	12.24	15.27	14.69	10.2	8.98	10.52		16.14	16.21	12.88	15.21	16.53	17.7	18.69	15.72	15.19
Strontium	μg/l	1						204.35	194.49	202.79	211.39	193.82	195.48	188.73	202.12	166.96	189.6	196.78		209.45	200.11	220.4	210.61	218.41	199.58	212.03	189.86	189.2
Sulphate	mg/I SO4	250	200	187.5				26.2												22.4								
Suspended Solids	mg/l																											
Temp	°C				10.8	11.4	11.7	13.1	13.4	12.6	16.1	16.4	11.7	16.3	9.8	10.1	9.1	8.3	7.2	10.7	11.5	11.3	21.3	14.2	10.7	13.4	8.2	8.1
Thallium	μg/l							0.45	0.17	0.17	0.32	0.16	0.14	0.17	0.22	<0.1	<0.1	<0.1		0.3	0.34	0.2	0.27	0.33	0.4	0.45	<1	<1
Time sampled					12:30	12:45	13:00	11:00	12:15	13:55	12:40	13:30	12:00	10:50	13:15	13:10	11:00	13:25	13:50	10:20	13:20	12:55	10:50	13:10	13:30	10:50	10:35	13:35
Tin (μg/l)	μg/l							<1	<1	<1	<1	<1	<1	<1	<1	<1	nm	nm		nm								
T.O.C.	mg/l	NAC			72.5			<1.5			nm			2.3			62.8			<1.5			<1.5			2.1		
T.O.N	mg/l N		NAC		2.14	2.55	3.12	3.37	1.77	2.09	2.55	0.98	1.21	1.84	2.35	0.73	0.33	0.99	0.45	2.82	2.9	1.47	2.27	3.11	2.73	2.83	1.5	2.2
Total S Solids	mg/l	-						40.70	10.10	40.04	40.04	40.00	44.64	47.00	22.52	6.74	2.70	0.14		20.52	4424	0.40	45.00	24.20	44.04	40.54	47.00	20.00
Uranium	µg/l		-					10.79	18.16	18.24	16.01	10.99	11.64	17.38	22.53	6.74	3.79 1.06	9.14		20.52	14.34	9.42	15.06	21.38	14.94	12.51	17.88	26.88
Vanadium	μg/I		100		22	17.4	11.2	1.54 13.9	3.83 11.8	3.28 19	2.92 19	2.13 25	2.3 19.2	3.26 14.9	3.91 15.6	0.97 21.4	1.06	1.91 25		2.8	1.67	1.75 23.9	2.5 23.6	3.48 13.3	2.78 11.4	1.83	3.5 15.2	5.55 15.1
ZIIIC	μg/ι	1	100		22	17.4	11.2	13.9	11.0	19	19	20	19.2	14.9	0.01	21.4	20.5	20		20.4	20.5	23.9	23.0	13.3	11.4	13.0	10.2	15.1

te Collected		DWR	IGV	2010 GW Regs	######	28-Feb-06	21-Mar-06	25-Apr-06	30-May-06	27-Jun-06	25-Jul-06	24-Aug-06	26-Sep-06	19-Oct-06	28-Nov-06	19-Dec-06	16-Jan-07	27-Feb-07	21-Mar-07	17-Apr-07	24-May-07	27-Jun-07	31-Jul-07	28-Aug-07	26-Sep-07	24-Oct-07	28-Nov-07	18-Dec-
alinity	mg/I CaCO3							336												368	·							
ıminium	ug/l	200	200	150																								
monia	mg/l N	0.23 mg/l.	.11 mg/l l	0.175	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03	0.06	0.09	0.06	< 0.03	< 0.03	< 0.03	0.06
imony	ug/l	5																										
enic	ug/l		10	7.5																								
rium	ug/l		100		60.5			62.7			<50			67.3	68.6		57.5			65.5		69.4	61.4			64.5		
yllium	ug/l																											
).D.	mg/l O2																											
on	μg/l	1000		750				<50												<50								
lmium	µg/l	5	5	3.75	<0.10			<0.10			<0.10			<0.10	<0.10		<0.10			<0.10		<0.10	<0.10			<0.10		
cium	mg/l Ca		200					126.24												121.02								
).D. loride	mg/l O2	250	30	187.5	15			14			19			14	10		14			19		12	12			13		
ioriae romium	mg/l Cl	50	30	187.5 37.5	11.1			7.9			3.7			14 <1	4.2		5.6			19 <1		12 <1	<1			2.5		
balt	μg/l μg/l	30	30	31.3	11.1			1.9			3.1			<1	4.2		5.0			<1		<1	<1			2.5		
form Bacteria		0																										
nductivity	µS/cm @ 25		1000	1875	690	710	720	708	687	696	742	758	766	715	704	707	731	725	748	790	833	645	644	668	676	700	826	737
pper	μg/I	2000	30	1500	000	710	120	4.8	007	000	172	700	700	710	704	101	701	720	740	2.6	000	040	044	000	070	700	020	707
anide	mg/l	0.05	10					<0.05												<0.05								
).	% Saturatio				67			70			58			55			52			55			74			46		
Coli	No/100 ml	0						0																				
oride	mg/l	0.8	1000					< 0.150												< 0.150								
n	μg/l	200	200		159.3			228.7			213.2			197.3	137.4		232.6			267.3		243.2	227.1			242.6		
nd	μg/l	25	10	18.75	5.8			5.6			5.3			3.9	3.7		2.7			2.2		3.0	3.0			2.6		
gnesium	mg/l Mg		50					10.5												9.35								
inganese	μg/l	50	50		54.3			39.1			40.4			58.7	44.5		39.8			17.7		41.9	28.1			17.6		
ercury	μg/l	1	1	0.75				<0.10												<0.10								
olybdenum	μg/l		35																									
ckel	μg/l	20	20	15	4.1			2.6			2.9			3.6	<1		<1			6.6		3.3	2.5			<1		
rite	mg/l N	0.5	0.1	0.375	0.009			0.004			0.004			0.004	< 0.003		0.005			0.005		nm	0.015			0.007		
Phosphate	mg/l P	05 05	30		7.0	7.4	-	0.04	7.4	7.4	7.0	7.0	7.0	7.0	-	7.0	7.0	7.0	7.0	<0.02	0.0	7.0	7.0	7.0	7.0	7.4	7.4	7.0
enol		6.5 - 9.5	0.0005		7.3 0.019	7.1	7	7.4 <0.001	7.1	7.1	7.3 <0.001	7.2	7.3	7.3 0.016	7	7.2	7.3 0.064	7.0	7.0	7.2 <0.001	6.9	7.0	7.2 <0.01	7.0	7.0	7.1 <0.01	7.1	7.2
tassium	mg/l mg/l		5		2.57			2.84			2.93			2.7	2.68		2.46			2.65		2.34	2.47			2.72		
mpling Depth			,		25.1	24.2	23.9	24.1	28.8	26.5	24.1	23.9	24.4	24	24	24.4	24.0	28.4	25.1	28.1	23.6	23.9	22.5	26.2	26.5	24.1	25.2	27.6
lenium	μg/l	10			20.1	24.2	25.5	24.1	20.0	20.5	24.1	20.0	24.4	24	24	24.4	24.0	20.4	20.1	20.1	23.0	25.5	22.0	20.2	20.5	24.1	25.2	21.0
ver	μg/l																											
dium	mg/l	200	150	150	10.31			10.99			15.99			13.36	11.32		13.84			17.68		7.86	8.66			10.67		
ontium	μg/l				1																							
lphate	mg/I SO4	250	200	187.5	1			18.5												28.2								
spended Sol																												
mp	°C				9.4	7	7	12.5	13	14	20.3	14	12	13.8	10	9	9.4	12.0	10.0	15.2	14.0	16.0	18.7	14.0	9.0	12.3	12	11
allium	μg/l																											
ne sampled								11.4	11.55	11.55	12.15	11.5	11.55	11.4	11.45	11.45	11.40	11.45	11.45	11.50	11.45	11.20	11.30	11.45	11.50	11.40	10.2	12.1
(μg/l)	μg/l																				جي. ص							
).C.	mg/l	NAC			150.4			4.1			3.5			3.5	3.2		2.2			2.8	9.		2.00			3.5		
.N	mg/l N		NAC		1.37			1.42			2.64			2.5	1.44		2.70			4.87		1.57				2.39		
al S Solids	mg/l																			Olli								
nium	µg/l																		. 41	A								
nadium	µg/l		400		40			11.7			0.4			447	7.7		10.4		10	911,		7.0	4.0	.4	1	40.0		
С	μg/l		100		18	1	1	11.7			8.4	l	1	14.7	7.7		10.4		07.3	5.0		7.6	4.2	<1	1	12.2		I

																			05 1 KO									
																			Sited									
															во	REHOLE BH	I2A	25	in									
Date Collected		DWR	IGV 2	010 GW Regs	######	26-Feb-08	19-Mar-08	29-Apr-08	27-May-08	26-Jun-08	31-Jul-08	27-Aug-08	30-Sep-08	30-Oct-08	26-Nov-08	16-Dec-08	20-Jan-09	24-Feb-09		28-Apr-09	26-May-09	23-Jun-09	21-Jul-09	18-Aug-09	29-Sep-09	20-Oct-09	17-Nov-09	08-Dec-09
Alkalinity	mg/l CaCO	3						368					•					07.4	,	364					•			
Aluminium	ug/l	200	200	150														10° 65										
Ammonia	mg/l N	0.23 mg/l.	11 mg/l l	0.175	0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03	0.04	0.04	< 0.03	< 0.03	0.04	< 0.03	<0.03	40.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	10.52
Antimony	ug/l	5															20	0										
Arsenic	ug/l		10	7.5													N. Thi											
Barium	ug/l		100		65			58.8			63.7			65.6			65.9			58.9			59.4			57.6		
Beryllium	ug/l															4	50,03,00											
B.O.D.	mg/l O2																.08.											
Boron	μg/l		1000	750				<50								Q	0			<50								
Cadmium	μg/l	5	5	3.75	<0.10			<0.10			<0.10			<0.10		, Q	<0.10			0.2			<0.1			<0.1		
	mg/l Ca		200					140.69												133.02								
	mg/l O2															250												
	mg/l Cl	250	30	187.5	17			18			20	· ·		18		Oly	19			18			12			11		
	μg/l	50	30	37.5	3			<1			<1			<1	1	U'	4.4			3.1			7.1			1.1		
	μg/l																											
	(No/100 ml) 0																										
	μS/cm @ 2		1000	1875	654	651	652	691	726	760	752	727	740	737	754	742	762	774	776	763	704	661	649	670	638	662	627	1028
Copper	μg/l	2000	30	1500				3.2												2.6								
	mg/l	0.05	10					<0.05												<0.01								
	% Saturation				70			58			48			39			41			49			nm	46		49		
	No/100 ml							1												0.450				6				
	mg/l	0.8	1000					<0.150												<0.150								
	μg/l	200	200	40.75	165			192			160.9			157.3			399.9			173.3			51			<50		
	μg/l	25	10 50	18.75	<1			3.6 10.77			2.3			<1			9.2			3.5 10.37			1.7			<1		
	mg/l Mg		50		7.5						07.5			7.5			400			46.4			24.5					
	μg/l	50 1	1	0.75	7.5			35.5 <0.10			37.5			7.5			106			46.4 <0.1			21.5			2.4		
	μg/l μg/l	1	35	0.75				<0.10												<0.1								
	µg/i µa/l	20	20	15	<1			<1			<1			<1			3.2			2.2			1.9			1.9		
	mg/l N	0.5	0.1	0.375	0.008			0.007			0.008			0.003			<0.002			<0.002			<0.002			<0.002		
	mg/I P	0.5	30	0.373	0.000			0.007			0.000			0.003			<0.002			0.03			₹0.002			<0.002		
nH	ilig/i i	6.5 - 9.5	30		7	7.1	7.1	7	7	6.9	7	7	7	7	7	7.1	7	7.1	7.3	7.1	7.1	7.6	7.1	7.1	7.1	7.0	7.1	7.0
P	mg/l		0.0005		0.03	7	7.1	<0.01		0.5	0.01		,	0.03	,	7	<0.01	7.1	7.5	<0.002	7.1	7.0	<0.025	7.1	7.1	<0.015	7.1	7.0
	mg/l		5		2.82			2.88			2.72			2.8			3.01			2.76			2.48			2.85		
Sampling Depth					24.2	24.3	25.4	24.2	24.8	14.9	29.9	24.7	24.2	nm	22.8	22.8	22.8	23.9	24	22.9	24.8	24.3	24	25	24.2	23.8	24.1	nm
	μg/l	10			T																							
	μg/l	1																										
	mg/l	200	150	150	10.35			11.08			11.49			10.89			17.54			15.65			9.94			9.95		
	μg/l																											
	mg/I SO4	250	200	187.5				21.5												25.5								
Suspended Solid	mg/l																											
	°C				9	11	12	12	nm	14.8	15.6	15	13	8.6	11	11	6.7	13	10	15	13	14	15.5	13.7	12	10.4	10.5	10.3
Thallium	μg/l																											
Time sampled					nt	11.5	11.5	11.5	11.35	11.4	11.35	11.45	11.5	11.2	11.45	11.2	11.45	13.35	11.45	11.35	11.3	11.5	11.2	11.15	11.3	11.15	9.55	11.40
	μg/l																											
	mg/l	NAC			4.4			2.9			2.7			2.5		-	3.6			2.9			6.8		-	8.4		
	mg/l N		NAC		1.42	,	,	2.22			3.02			2.52			4.22			2.91			0.91			0.75		
	mg/l																											
	μg/l																											
	μg/l																											
Zinc	μg/l		100		6.6			9.7			8.8			12.5			17.5			11.8			9			11.1		

| Date Collected | | DWR | IGV 2 | 2010 GW Regs | ###### | 23-Feb-10 | 23-Mar-10 | 27-Apr-10 | 18-May-10 | 15-Jun-10 | 27-Jul-10 | 24-Aug-10 | 21-Sep-10 | 19-Oct-10
 | | 21-Dec-10

 |
 | 15-Feb-11 | 29-Mar-11 | 12-Apr-11 | 10-May-11 | 14-Jun-11 | 12-Jul-11 | 09-Aug-11 | 06-Sep-11 | 04-Oct-11 | 08-Nov-11 | 13-Dec-11 |
|--|--|--|---|---|--|--------------|--------------------------|--|--------------------|-----------|---|----------------------------|--------------------------
--|------------------
--
--
--
--
--|--
--|--|--|------------------|--------------------|---|--------------|-----------|--|---------------------|---------------------|
| Alkalinity
Aluminium | mg/l CaCO3 | 13 | 200 | 150 | | | | 286 | , | | | | |
 | |

 |
 | | | 333 | | | | | | | | |
| Ammonia | | 0.23 mg/l. | | 0.175 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03
 | <0.03 | <0.03

 | <0.03
 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Antimony
Arsenic | ug/l
ug/l | 5 | 10 | 7.5 | | | | | | | | | |
 | |

 |
 | | | | | | | | | | | |
| Barium
Beryllium | ug/l
ug/l | | 100 | | 54.9 | | | 54.4 | | | 60.0 | | | 65.7
 | |

 |
 | 57.2 | | 58.5 | | | 58.1 | | | 54.8 | | |
| B.O.D. | mg/l O2 | | | | | | | | | | | | |
 | |

 |
 | | | | | | | | | | | |
| Boron
Cadmium | μg/l
μg/l | 1000
5 | 1000
5 | 750
3.75 | <0.1 | | | 26.7
<0.1 | | | 0.1 | | | 0.1
 | |

 |
 | <1 | | 36.8
<0.1 | | | <0.1 | | | <0.1 | | |
| Calcium
C.O.D. | mg/l Ca
mg/l O2 | | 200 | | | | | 106.81 | | | | | |
 | |

 |
 | | | 157.1 | | | | | | | | |
| Chloride | mg/l Cl | 250 | 30 | 187.5 | 16 | | | 15 | | | 13 | | | 14
 | |

 |
 | 17 | | 17 | | | 16 | | | 16 | | |
| Chromium
Cobalt | μg/l
μg/l | 50 | 30 | 37.5 | <1 | | | <1 | | | <0.5 | | | 0.6
 | |

 |
 | <5 | | <0.5 | | | <0.5 | | | <0.5 | | |
| Coliform Bacteria Conductivity | (No/100 ml
µS/cm @ 25 | | 1000 | 1875 | 602 | 638 | 652 | 605 | 646 | 652 | 652 | 656 | | 664
 | 611 | 611

 | 691
 | 647 | 622 | 989 | 760 | 648 | 693 | 697 | 695 | 739 | 855 | 782 |
| Copper | μg/l | 2000 | 30 | 1500 | 602 | 038 | 032 | 3.4 | 040 | 652 | 032 | 050 | | 004
 | 011 | 611

 | 691
 | 047 | 022 | 1.3 | 760 | 048 | 093 | 697 | 693 | 739 | 633 | 762 |
| Cyanide
D.O. | mg/I
% Saturation | 0.05
on | 10 | | 90 | | | <0.05
75 | | | 70 | | | 55
 | |

 |
 | 81 | | <0.05
65 | | | 54 | | | 46 | | |
| E_ Coli
Fluoride | No/100 ml | 0 | 1000 | | | | | 2
<0.150 | | | | | |
 | |

 |
 | | | nm
<0.150 | | | | | | | | |
| Iron | mg/l
µg/l | 200 | 200 | | <50 | | | 66.1 | | | 74.3 | | | 33.8
 | |

 |
 | <100 | | <10 | | | 16.9 | | | <10 | | |
| Lead
Magnesium | μg/l
mg/l Mg | 25 | 10
50 | 18.75 | 1.4 | | | 2.9
9.11 | | | 6.6 | | | 1.7
 | |

 |
 | <5 | | <0.5
14.31 | | | <0.5 | | | <0.5 | | |
| Manganese | μg/l | 50 | 50 | 0.75 | 7.7 | | | 27.8 | | | 29.0 | | | 25.9
 | |

 |
 | <10 | | <1 | | | 1.7 | | | 2.4 | | |
| Mercury
Molybdenum | μg/l
μg/l | 1 | 1
35 | | | | | <0.1 | | | | | |
 | |

 |
 | | | <0.05 | | | | | | | | |
| Nickel
Nitrite | μg/l
mg/l N | 20
0.5 | 20
0.1 | 15
0.375 | 1.7
<0.002 | | | 1.3 | | | <0.5
<0.002 | | | 1.3
<0.002
 | |

 |
 | <5
<0.002 | | 1.2
<0.002 | | | <0.5
<0.002 | | | <0.5
<0.002 | | |
| o-Phosphate | mg/l P | | 30 | | | 7. | | 0.02 | | l _ | | | |
 | 7.0 | 7.0

 | 7.
 | | 7.0 | 0.02 | 7.0 | 7. | | 7. | 7.0 | | 7.0 | 7.0 |
| pH
Phenol | mg/l | 6.5 - 9.5 | 0.0005 | | 7.3
<0.015 | 7.1 | 7.2 | 7.1
<0.015 | 7.2 | 7 | 7.0
<0.025 | 7.1 | | 7.0
<0.025
 | 7.3 | 7.2

 | 7.1
 | 7.6
<0.025 | 7.3 | 7
<0.013 | 7.2 | 7.1 | 7.1
<0.008 | 7.4 | 7.3 | 7.2
<0.016 | 7.3 | 7.2 |
| Potassium
Sampling Depth | mg/l | | 5 | - | 2.38
19.1 | 19.5 | 19.2 | 2.59
nm | 21.6 | 21.7 | 4.09
23.0 | 22.6 | 23.6 | 3.01
nm
 | 23.6 | 24.2

 | 20.5
 | 2.72
17.9 | 23.0 | 3.54
21 | 18.3 | 24.7 | 2.4
24.9 | 23.1 | 26.4 | 3.1
30.4 | 24 | 23.3 |
| Selenium | μg/l | 10 | | | 13.1 | 13.5 | 23.2 | | 21.0 | 21.7 | 25.0 | EE.O | 25.0 |
 | 23.0 | 2.1.2

 | 20.5
 | 17.5 | 23.0 | | 10.5 | 24.7 | 21.5 | 25.1 | 20.1 | 50.1 | | 25.5 |
| Silver
Sodium | μg/l
mg/l | 200 | 150 | 150 | 7.54 | | | 9.56 | | | 8.12 | | | 10.89
 | |

 |
 | 9.57 | | 12.81 | | | 8.77 | | | 12.23 | | |
| Strontium
Sulphate | μg/I
mg/I SO4 | 250 | 200 | 187.5 | | | | 13.4 | | | | | |
 | |

 |
 | | | 17.4 | | | | | | | | |
| Suspended Soli | mg/l | 250 | 200 | 107.0 | | | | | | | | | |
 | |

 |
 | | | | | | | | | | | |
| Temp
Thallium | °C
µg/l | | | | 7.3 | 9.8 | 11 | 15.7 | 13 | 12.3 | 21.0 | 12.7 | 16.4 | 11.1
 | 9.6 | 9.4

 | 11.0
 | 9.1 | 11.0 | 14.1 | 14 | 13.4 | 13 | 13 | 14.1 | 14.1 | 12.3 | 11.4 |
| Time sampled | | | | | 11.25 | 11.4 | 11.35 | 11.45 | 11.25 | 11.35 | 10.55 | 11.35 | 12.05 | nt
 | 15:10 | 10:55

 | 11:25
 | 11.45 | 11:40 | 11:30 | 1:40 | 11:45 | 11:45 | 14:10 | 13:30 | 11:40 | 12:30 | 14:20 |
| Tin (μg/I)
T.O.C. | μg/l
mg/l | NAC | | | 9 | | | 5.8 | | | 4.8 | | | 81.3
 | |

 |
 | 5.9 | | 78.3 | | | 4.6 | | | 87.3 | | |
| T.O.N
Total S Solids | mg/l N
mg/l | | NAC | | 0.36 | | | 0.99 | | | 1.40 | | | 1.80
 | |

 |
 | 0.83 | 4 | 2,52 | | | 2.45 | | | 2.09 | | |
| Uranium
Vanadium | μg/l | | | | | | | | | | | | |
 | |

 |
 | | ally | My, | | | | | | | | |
| Zinc | μg/l
μg/l | | 100 | | 9.6 | | | 9.1 | | | 7.3 | | |
 | |

 |
 | 20.0 | 20.09 | | | | 9.4 | | | 9.8 | | |
| | | | | | | | 1 | J.1 | 1 | | 7.5 | | | 9.4
 | |

 |
 | 28.0 | es yo | 2.8 | | | 9.4 | | | 5.0 | | |
| | | | | | | | | 5.1 | | | 7.5 | | | 9.4
 | |

 |
 | | 200 | 2.8 | | | 9.4 | | | 5.0 | | |
| Date Collected | | DWR | IGV 2 | 2010 GW Regs | ###### | 07-Feb-12 | 13-Mar-12 | | 15-May-12 | 07lun-12 | | 14-Aug-12 | 11-Sen-12 |
 | | DREHOLE BI

 |
 | OUT | diffed | | 08-May-13 | 11-Jun-13 | | 07-Aug-13 | 17-Sen-13 | | 19-Nov-13 | 03-Dec-13 |
| Date Collected
Alkalinity | mg/l CaCO3 | 13 | | 2010 GW Regs | ##### | 07-Feb-12 | 13-Mar-12 | 24-Apr-12 348 | 15-May-12 | 07-Jun-12 | 24-Jul-12 | 14-Aug-12 | 11-Sep-12 | 09-Oct-12
 | |

 | 31-Jan-13
 | OUT | diffed | 16-Apr-13 348 | 08-May-13 | 11-Jun-13 | 23-Jul-13 | 07-Aug-13 | 17-Sep-13 | 08-Oct-13 | 19-Nov-13 | 03-Dec-13 |
| | ug/l | DWR
3
200
0.23 mg/l. | 200 | 2010 GW Regs
150
0.175 | ######
<0.03 | | 13-Mar-12 | 24-Apr-12 | 15-May-12
<0.03 | 07-Jun-12 | | 14-Aug-12
0.04 | 11-Sep-12 |
 | |

 |
 | OUT | diffed | 16-Apr-13 | 08-May-13 | 11-Jun-13 | | 07-Aug-13 | 17-Sep-13 | | 19-Nov-13
<0.020 | 03-Dec-13
<0.020 |
| Alkalinity Aluminium Ammonia Antimony | ug/l
mg/l N
ug/l | 200 | 200
11 mg/l l | 150
0.175 | | | | 24-Apr-12
348
<5
<0.03
<0.5 | | | 5.9
<0.03
<0.5 | | | <pre></pre>
 | 06-Nov-12 | 11-Dec-12

 | 31-Jan-13
<5
<0.03
 | 12 Feb-13 0 | 26-Mar-13 | 16-Apr-13
348
5.5
<0.03
<0.5 | | | 23-Jul-13 5.1 <0.03 <0.5 | | | 08-Oct-13
 <5
 <0.03
 <0.5 | | |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium | ug/l
mg/l N
ug/l
ug/l
ug/l | 200
0.23 mg/). | 200 | 150 | | | | 24-Apr-12
348
<5
<0.03
<0.5
0.59
57.3 | | | 5.9
<0.03
<0.5
0.51
56.5 | | | 09-Oct-12
 <5
 <0.03
 <0.5
 0.64
 59.6
 | 06-Nov-12 | 11-Dec-12

 | 31-Jan-13
<5
<0.03
<0.5
0.51
69-8
 | 12 Feb-13 0 | 26-Mar-13 | 16-Apr-13
348
5.5
<0.03
<0.5
0.6
63 | | | 23-Jul-13
5.1
<0.03
<0.5
<0.5
64.2 | | | 08-Oct-13
 <5
 <0.03
 <0.5
 <0.5
 62.9 | | |
| Alkalinity Aluminium Ammonia Antimony Arsenic | ug/l
mg/l N
ug/l
ug/l
ug/l
ug/l | 200
0.23 mg/). | 200
11 mg/l l | 150
0.175 | <0.03 | | | 24-Apr-12
348
<5
<0.03
<0.5
0.59 | | | 5.9
<0.03
<0.5
0.51 | | | 09-Oct-12
 <5
 <0.03
 <0.5
 0.64
 | 06-Nov-12 | 11-Dec-12

 | 31-Jan-13
<5
<0.03
0.51
 | 12 Feb-13 0 | 26-Mar-13 | 16-Apr-13
348
5.5
<0.03
<0.5
0.6 | | | 5.1
<0.03
<0.5
<0.5 | | | 08-Oct-13
 <5
 <0.03
 <0.5
 <0.5 | | |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron | ug/I
mg/I N
ug/I
ug/I
ug/I
ug/I
mg/I O2
µg/I | 200
0.23 mg/l. ²
5 | 200
11 mg/l l
10
100 | 150
0.175
7.5 | <0.03
60.9
27.6 | | | 24-Apr-12 348 <5 <0.03 <0.5 0.59 57.3 <0.5 | | | 5.9
<0.03
<0.5
0.51
56.5
<0.5 | | | <pre></pre>
 | 06-Nov-12 | 11-Dec-12

 | 31-Jan-13
<5
<0.03
<0.51
69.8
69.8
19.3
 | 12 Feb-13 0 | 26-Mar-13 | 16-Apr-13
348
5.5
<0.03
<0.5
0.6
63
<0.5 | | | 23-Jul-13 5.1 <0.03 <0.5 <0.5 <0.5 30.3 | | | 08-Oct-13
 <5
 <0.03
 <0.5
 <0.5
 62.9
 <0.5
 33.1 | | |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l gg/l mg/l O2 pg/l pg/l mg/l Ca | 200
0.23 mg/l. | 200
11 mg/l l
10
100 | 150
0.175
7.5 | <0.03 | | | 24-Apr-12
348
<5
<0.03
<0.5
0.59
57.3
<0.5 | | | 5.9
<0.03
<0.5
0.51
56.5
<0.5 | | | 09-Oct-12
 <5
 <0.03
 <0.5
 0.64
 59.6
 <0.5
 | 06-Nov-12 | 11-Dec-12

 | 31-Jan-13
<5
<0.03
<0.5
0.51
69-8
30.5
 | 12 Feb-13 0 | 26-Mar-13 | 16-Apr-13
348
5.5
<0.03
<0.5
0.6
63
<0.5 | | | 23-Jul-13 5.1 <0.03 <0.5 <0.5 64.2 <0.5 | | | 08-Oct-13
 <5
 <0.03
 <0.5
 <0.5
 62.9
 <0.5 | | |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 pg/l pg/l mg/l Ca mg/l O2 | 200
0.23 mg/l. ²
5 | 200
11 mg/l l
10
100
1000
5 | 150
0.175
7.5 | <0.03
60.9
27.6
<0.1 | | | 24-Apr-12 348 <5 <0.03 <0.5 0.59 57.3 <0.5 22.2 <0.1 | | | 5.9
<0.03
<0.5
0.51
56.5
<0.5
21.6
<0.1 | | | <pre><5 <0.03 <0.5 0.64 59.6 <0.5 25.8 <0.1</pre>
 | 06-Nov-12 | 11-Dec-12

 | 31-Jan-13
<5
<0.03
0.51
69-8
19.3
<0.1
 | 12 Feb-13 0 | 26-Mar-13 | 16-Apr-13 348 5.5 <.0.03 <.0.6 6.3 <.0.5 28.5 <.0.1 | | | 23-Jul-13 5.1 <0.03 <0.5 <0.5 64.2 <0.5 30.3 <0.1 | | | <pre></pre> | | |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium C.O.D. Chloride Chromium | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 µg/l µg/l mg/l C2 mg/l Ca mg/l O2 mg/l O2 | 200
0.23 mg/.
5 | 200
11 mg/l l
10
100
1000
5
200 | 150
0.175
7.5
750
3.75 | <0.03
60.9
27.6
<0.1
124.18 | | | 24-Apr-12 348 <5 <0.03 <0.05 0.59 57.3 <0.5 22.2 <0.1 109.38 | | | 5.9
<0.03
<0.5
0.51
56.5
<0.5
21.6
<0.1
116.31 | | | 09-Oct-12
 <5
 <0.03
 <0.5
 0.64
 59.6
 <0.5
 25.8
 <0.1
 127.44
 12
 1.5
 | 06-Nov-12 | 11-Dec-12

 | 31-Jan-13 <5 <0.03 <0.5 <0.51 <0.98 <0.5 <19.3 <0.1 118.55 12 <0.5
 | 12 Feb-13 0 | 26-Mar-13 | 16-Apr-13 348 5.5 <0.03 <0.5 0.6 63 <0.5 28.5 <0.1 124.92 14 1.5 | | | 23-Jul-13 5.1 <0.03 <0.5 <0.5 64.2 <0.5 64.2 <0.6 128.86 | | | 08-Oct-13
 <5
 <0.03
 <0.5
 <0.5
 62.9
 <0.5
 33.1
 <0.1
 128.36
 1.4 | | |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l g/l O2 pg/l pg/l mg/l Ca mg/l O2 mg/l Cl pg/l pg/l ((No/100 ml | 200
0.23 mg/l.
5
1000
5
250
50 | 200
11 mg/l l
10
100
1000
5
200
30
30 | 150
0.175
7.5
750
3.75
187.5
37.5 | <0.03 60.9 27.6 <0.1 124.18 15 <0.5 | <0.03 | 0.03 | 24-Apr-12 348 <5 <0.03 <0.5 0.59 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 <0.5 >2420 | <0.03 | 0.03 | 5.9
<0.03
<0.5
0.51
56.5
<0.5
21.6
<0.1
116.31 | 0.04 | 0.03 | 09-Oct-12
 <5
 <0.03
 <0.5
 0.64
 59.6
 <0.5
 25.8
 <0.1
 127.44
 12
 1.5
 <0.5
 | <0.03 | <0.03 <0.03 <0.03

 | 31-Jan-13 <5 <0.03 <0.5 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
 | 12Feb-18 | 26-Mar-13
<0.03 | 16-Apr-13 348 5.5 5.5 <0.03 <0.5 0.6 63 <0.5 28.5 <0.1 124.92 14 1.5 <0.5 10 | <0.03 | <0.03 | 23-Jul-13 5.1 <0.03 <0.5 <0.5 64.2 <0.5 30.3 <0.1 128.86 16 1.4 <0.5 | <0.03 | <0.03 | 08-Oct-13 <5 <0.03 <0.5 <0.5 <2.9 <0.5 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0. | <0.020 | <0.020 |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadamium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 µg/l µg/l mg/l Ca mg/l Cl µg/l µg/l (No/100 ml µS/cm @ 25 | 200
0.23 mg/L
5
1000
5
250
50
1) 0
0,5 | 200
111 mg/l l
10
100
1000
5
200
30
30
30 | 150
0.175
7.5
750
3.75 | <0.03
60.9
27.6
<0.1
124.18 | | | 24-Apr-12 348 <5 <0.03 <0.5 0.59 57.3 <0.6 22.2 <0.1 109.38 16 <0.5 <0.5 | | | 5.9
<0.03
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0.51
56.5
<0.5
21.6
<0.1
116.31 | | | 09-Oct-12
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 0.64
 59.6
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 25.8
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 127.44
 12
 1.5
 | 06-Nov-12 | 11-Dec-12

 | 31-Jan-13 <5 <0.03 <0.5 <0.51 <0.98 <0.5 <19.3 <0.1 118.55 12 <0.5
 | 12 Feb-13 0 | 26-Mar-13 | 16-Apr-13 348 548 50.03 c0.5 0.6 63 c0.5 28.5 c0.1 124.92 14 1.5 c0.5 | | | 23-Jul-13 5.1 <0.03 <0.5 <0.5 64.2 <0.5 64.2 <0.6 128.86 | | | 08-Oct-13
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 62.9
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 33.1
 <0.1
 128.36
 1.4 | | |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 µg/l mg/l Ca mg/l C2 mg/l C2 µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l | 3 200
0.23 mg/l. 5
5 1000
5 250
5 50
1) 0 0 5
5 2500
2000
0.05 | 200
11 mg/l 1
10
100
1000
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30 | 150
0.175
7.5
750
3.75
187.5
37.5 | <0.03 60.9 27.6 <0.1 124.18 15 <0.5 783 2.8 | <0.03 | 0.03 | 24-Apr-12 348 <5 <0.03 <0.5 0.59 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 <0.5 690 2 2 <0.05 | <0.03 | 0.03 | 5.9
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<0.5 | 0.04 | 0.03 | 09-Oct-12
 | <0.03 | <0.03 <0.03 <0.03

 | 31-Jan-13 <5 <0.03 <0.5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
 | 12Feb-18 | 26-Mar-13
<0.03 | 16-Apr-13 348 5.5 <0.03 <0.5 0.6 63 <0.5 28.5 <0.1 124.92 14 1.5 <0.5 10 707 5.3 <0.05 | <0.03 | <0.03 | 23-Jul-13 5.1 <0.03 <0.5 64.2 <0.5 30.3 <0.1 128.86 16 1.4 <0.5 719 1.6 | <0.03 | <0.03 | 08-Oct-13 | <0.020 | <0.020 |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s. 5 1000 5 5 250 5 5 200 0.05 00 0 0 0 | 200
11 mg/l 1
10
100
5
200
30
30
1000
30 | 150
0.175
7.5
750
3.75
187.5
37.5 | <0.03 60.9 27.6 <0.1 124.18 15 <0.5 | <0.03 | 0.03 | 24-Apr-12 348 <5 <0.03 <0.5 9 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 >2420 690 2 <0.05 48 345 | <0.03 | 0.03 | 5.9
<0.05
0.51
56.5
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 | 31-Jan-13 <5 <0.03 <0.51 69-8 <0.1 19.3 <0.1 118.55 12 <0.5 <0.5 675
 | 12Feb-18 | 26-Mar-13
<0.03 | 16-Apr-13 348 5.5 <0.03 <0.5 0.6 63 <0.5 28.5 <0.1 124.92 14 1.5 <0.5 10 707 75 3 <0.05 47 | <0.03 | <0.03 | 23-Jul-13 5.1 <0.03 <0.5 <0.5 64.2 <0.5 30.3 <0.1 128.86 16 1.4 <0.5 | <0.03 | <0.03 | 08-Oct-13 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0. | <0.020 | <0.020 |
| Alkalinity Aluminium Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. | ug/l mg/l N ug/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s ² 5 1000 5 5 2500 2000 0.05 0.0 0.8 | 200
11 mg/l 1
10
100
1000
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200
30
30
1000
30 | 150
0.175
7.5
750
3.75
187.5
37.5 | <0.03 60.9 27.6 <0.1 124.18 15 <0.5 783 2.8 | <0.03 | 0.03 | 24-Apr-12 348 <5 <0.03 <0.5 0.59 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 >242.2 <0.1 22.2 <0.1 40.5 40.5 24.20 690 690 48 | <0.03 | 0.03 | 5.9
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| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Co.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s ² 5 1000 5 5 2500 2000 0.05 0.0 0.8 | 200
11 mg/l 1
10
100
1000
5
200
30
30
1000
30
1000
200
1000
200 | 150
0.175
7.5
750
3.75
187.5
37.5 | <0.03 60.9 27.6 <0.1 124.18 15 <0.5 783 2.8 54 <10 0.6 | <0.03 | 0.03 | 24-Apr-12 348 <5 <0.03 <0.5 0.59 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 <0.5 <0.5 48 345 <0.150 <10.5 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 | <0.03 | 0.03 | 5.9
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<0.51
56.5
<0.5
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116.31
11 <0.5
<0.5
675
3 65 14.7 <0.5 | 0.04 | 0.03 | 09-Oct-12
 | <0.03 | <0.03 <0.03 <0.03

 | 31-Jan-13 <5 <0.03 <0.51 <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 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05
 | 12Feb-18 | 26-Mar-13
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| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride F | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s. 5 1000 5 5 250 50 0.05 00 0.05 00 0.05 50 0.00 25 50 0.00 5 50 0.00 5 | 200 11 mg/l l 10 100 1000 5 200 30 30 10 1000 200 10 50 50 | 150
0.175
7.5
7.5
3.75
187.5
37.5
1875
1500 | <0.03 60.9 27.6 <0.1 124.18 15 <0.5 783 2.8 54 <10 0.6 11.41 7 | <0.03 | 0.03 | 24-Apr-12 348 <5 <0.03 <0.05 0.59 57.3 <0.05 <0.10 109.38 16 <0.5 <0.5 >22.2 <0.1 109.38 16 <0.5 >2420 690 2 <0.05 48 345 <0.10 <0.10 <0.5 10.59 | <0.03 | 0.03 | 24-Jul-12 5.9 <0.03 <0.5 0.51 56.5 <0.5 <1.6 <0.1 116.31 11 <0.5 675 3 14.7 <0.5 10.96 5.5 | 0.04 | 0.03 | 09-Oct-12
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 | 31-Jan-13 <5 <0.03 0.51 0.51 0.51 0.51 19.3 <0.1 118.55 12 <0.5 <0.5 -0. | 12Feb-18 | 26-Mar-13
<0.03 | 16-Apr-13 348 5.5 <0.03 <0.5 0.6 63 <0.5 28.5 <0.1 124.92 14 1.5 <0.5 10 707 75.3 <0.05 4 0.1 0 0.5 1.13 2.6
 | <0.03 | <0.03 | 23-Jul-13 5.1 <0.03 <0.5 <0.5 <40.5 <64.2 <0.5 <40.1 128.86 16 1.4 <0.5 719 1.6 36 <10 <0.5 11.42 3.2 | <0.03 | <0.03 | 08-Oct-13 | <0.020 | <0.020 |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Magneseum Manganese Mercury Molybdenum | ug/l mg/l N ug/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s. 5 1000 5 250 50 0.05 2000 0.05 000 0.05 000 0.05 000 0.05 0 | 200 11 mg/l 1 10 100 1000 5 200 30 30 10 1000 200 10 50 | 150
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7.5
7.5
3.75
187.5
37.5 | <0.03 60.9 27.6 <0.1 124.18 15 <0.5 783 2.8 <10 0.6 11.41 | <0.03 | 0.03 | 24-Apr-12 348 <5 <0.03 <0.5 0.59 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 <0.5 <2420 <0.5 >2420 40.4 345 <0.150 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0 | <0.03 | 0.03 | 5.9
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| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s. 5 5 5 5 5 5 0 0 0.8 200 25 5 5 0 1 1 20 200 200 25 5 2 5 0 1 1 20 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 200 11 mg/l l 10 1000 5 200 30 30 10 1000 200 10 10 50 51 35 20 | 150
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| Alkalinity Aluminium Aluminium Aluminium Aluminium Anmonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Lead Magneseum Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s. 5 1000 5 5 2500 50 2000 0.05 50 1 1 20 0.5 5 50 1 1 20 0.5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 200 11 mg/l 10 1000 5 200 30 30 10 10 10 10 10 10 10 10 10 10 10 10 10 | 150
0.175
7.5
7.5
750
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187.5
37.5
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1500 | <pre><0.03 60.9 27.6 <0.1 124.18 15 <0.5 783 2.8 54 <10 0.6 11.41 7 nm 2.3 <0.002 7.2 <0.002 3.11 21</pre> | 705 | 698 | 24-Apr-12 348 <5 <0.03 <0.5 0.59 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 <0.5 >24.20 2 <0.05 <0.5 >242.0 10 0.5 20 0.5 48 345 <0.150 <0.5 40.5 40.0 0.0 0.0 0.0 0.0 0.0 | 633 | 702 | 5.9 | 668 | 689 | 09-Oct-12 | 720
6.9 | <0.03 <p>671 7.1</p>

 | 31-Jan-13 <5 <0.03 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0 | 12Feb-13
20.03
 | 26-Mar-13
<0.03 | 16-Apr-13 348 5.5 <0.03 <0.5 0.6 63 <0.5 <0.6 63 <0.5 <0.1 124.92 14 1.5 <0.5 10 707 5.3 <0.05 47 0 <0.150 <0.11 3 2.6 <0.05 <0.1 3 3 6 0.5 <0.7 11.3 1.6 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 724 | 722 | 23-Jul-13 5.1 <0.03 <0.5 <0.5 64.2 <0.5 64.2 <0.5 128.86 16 1.4 <0.5 719 1.6 36 <10 <0.5 11.42 3.2 nm <0.5 <0.05 <0.05 <0.05 11.42 3.2 nm <0.002 3.23 22.7 0.7 | <0.03
726 | 730 | 08-Oct-13 < 5 | 738 | 735 |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Soli Temp | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s. 5 1000 5 5 2500 50 2000 0.05 50 1 1 20 0.5 5 50 1 1 20 0.5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 200 11 mg/l l 10 1000 5 200 30 30 10 1000 1000 10 1000 10 10 10 10 10 10 | 150
0.175
7.5
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1500 | <pre><0.03 60.9 27.6 <0.1 124.18 15 <0.5 783 2.8 54 <10 0.6 11.41 7 nm 2.3 <0.002 7.2 <0.002 3.11 21</pre> | 705 | 698 | 24-Apr-12 348 <5 <0.03 -0.59 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 <0.5 <0.5 >>22.0 <0.1 109.38 16 <0.5 <0.5 <0.5 >>20.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.05 <0.5 <0. | 633 | 702 | 5.9 c.05 c.00 c.0 | 668 | 689 | 09-Oct-12 | 720
6.9 | <0.03 <p>671 7.1</p>

 | 31-Jan-13 <5 <0.03 <0.051 69.8 19.3 <0.1 118.55 12 <0.5 <0.5 <0.5 <10.001 10.03 2.3 10.03 2.3 10.03 2.3 10.03 2.3 10.03 2.3 10.03 2.3 10.03 2.3 10.03 2.3 10.03 2.3 10.03 2.3 10.03 2.3 10.03 2.3 10.03 2.3 10.03 2.3 10.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0 | 12Feb-13
20.03
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<0.03 | 16-Apr-13 348 5.5 <0.03 <0.5 0.6 63 <0.5 28.5 <0.1 124.92 14 1.5 <0.5 10 707 5.3 <0.05 47 0 <0.150 20 <0.5 11.3 2.6 <0.150 20 <0.5 11.3 2.6 10 10 0.5 11.3 2.6 10 0.5 10 0.5 10 0.5 10 0.5 10 0.7 0.7 0.7 0.7 0.8 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 | 724 | 722 | 23-Jul-13 5.1 <0.03 <0.5 64.2 <0.5 64.2 <0.5 11.42 <0.5 11.42 3.2 nm <0.5 <0.002 7.1 <0.002 3.23 3.2.7 0.7 11.19 219.43 | <0.03
726 | 730 | 08-Oct-13 | 738 | 735 |
| Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Soli- Temp Thallium Time sampled | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s. 5 1000 5 5 2500 50 2000 0.05 50 1 1 20 0.5 5 50 1 1 20 0.5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 200 11 mg/l l 10 1000 5 200 30 30 10 1000 1000 10 1000 10 10 10 10 10 10 | 150
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1500 | <0.03 60.9 27.6 <0.1 124.18 15 <0.5 783 2.8 54 <10 0.6 11.41, 7 nm 2.3 <0.002 3.11 21 12.6 | 705 | 0.03
698
7.2 | 24-Apr-12 348 <5 <0.03 40.5 0.59 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 | 633 | 702 | 5.9 <0.05 <0.51 56.5 <0.5 21.6 <0.1 116.31 11 30.5 <0.5 675 3 65 655 14.7 <0.5 10.96 <0.5 11.96 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 < | 0.04
0.04
668 | 0.03
0.03
689 | 09-Oct-12
 | 720
6.9
20 | 671
7.1

 | 31-Jan-13 -5 -0.05 -0.51 -0.51 -0.51 -0.53 -0.51 -0.53 -0.1 -118.55 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -
 | 12Feb-18 | 26-Mar-13
<0.03
691
7.1 | 16-Apr-13 348 5.5 <0.03 <0.5 0.6 63 <0.5 28.5 <0.1 124.92 14 1.5 <0.5 10 707 5.3 <0.05 47 0 <0.150 20 <0.150 20 <0.150 20 0.4 7.1 <0.002 3.06 40.150 2.9 <0.002 0.04 7.1 <0.002 3.06 19.4 7.1 0.002 3.06 19.4 10.64 213.84 15.8 | 724 | 722 | 23-Jul-13 5.1 <0.03 64.2 <0.5 64.2 <0.5 64.2 <0.5 11.4 <0.5 719 1.6 36 <0.5 11.42 3.2 nm <0.5 <0.002 7.1 <0.002 3.23 22.7 11.19 219.43 | 726 | 730 | 08-Oct-13 | 738 | 735 |
| Alkalinity Aluminium Aluminium Aluminium Aluminium Anmonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Strontium Strontium Sulphate Suspended Solii Temp Thallium Time sampled Tim (µg/I) | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s. 5 1000 0.23 mg/s. 5 2500 50 2000 0.05 250 1 1 20 0.5 6.5 - 9.5 6.5 - 9.5 10 200 25 25 2500 0.05 25 2500 25 2500 25 25 2500 25 25 2500 25 25 250 25 25 250 25 25 250 25 25 250 25 25 250 25 25 25 25 25 25 25 25 25 25 25 25 25 | 200 11 mg/l l 10 1000 5 200 30 30 10 1000 1000 10 1000 10 10 10 10 10 10 | 150
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698
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21 | 24-Apr-12 348 <5 <0.03 <0.5 0.59 57.3 <0.5 50.59 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 <0.5 <2420 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0 | 633
7.1
22 | 702 | 5.9 c.05 c.0 | 0.04
668
7.1
20.2 | 0.03
689
7
20.2 | 09-Oct-12 | 720
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20 | 671
7.1

 | 31-Jan-13 <5 <0.025 <0.051 32.5 32.5 32.5 32.5 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.05 4.00 4.01 4.01 4.01 4.01 4.01 4.01 4.01 4.01 4.01 | 12-Feb-13

 | 26-Mar-13
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691
7.1
15.6 | 16-Apr-13 348 5.5 <0.03 <0.5 0.6 63 <0.5 <0.6 63 <0.5 <0.1 124.92 14 1.5 <0.5 10 707 707 5.3 <0.05 <47 0 0 5.3 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.10 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.05 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0. | 724 | 722
7.1
21.7 | 23-Jul-13 5.1 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 | 726 | 730 | 08-Oct-13 <5 | 7.2 | 735
7.2 |
| Alkalinity Aluminium Aluminium Aluminium Aluminium Aluminium Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Solir Temp Thallium Time sampled Tin (µg/1) T.O.C. T.O.N | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s. 5 1000 0.23 mg/s. 5 5 2500 2000 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 0 0.05 001 0 | 200 11 mg/l l 10 1000 5 200 30 30 10 1000 1000 10 1000 10 10 10 10 10 10 | 150
0.175
7.5
7.5
750
3.75
187.5
37.5
1875
1500 | <pre><0.03 60.9 27.6 <0.1 124.18 15 <0.5 783 2.8 54 <10 0.6 11.41 7 nm 2.3 <0.002 3.11 21 12.6</pre> | 705 | 0.03
698
7.2
21 | 24-Apr-12 348 <5 <0.03 40.5 0.59 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 | 633
7.1
22 | 702 | 5.9 <0.05 <0.51 56.5 <0.5 21.6 <0.1 116.31 11 30.5 <0.5 675 3 65 655 14.7 <0.5 10.96 <0.5 11.96 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 <0.5 11.98 < | 0.04
668
7.1
20.2 | 0.03
689
7
20.2 | 09-Oct-12
 | 720
6.9
20 | 671
7.1

 | 31-Jan-13 -5 -0.05 -0.51 -0.51 -0.51 -0.53 -0.51 -0.53 -0.1 -118.55 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -
 | 12-Feb-13
 | 26-Mar-13
<0.03
691
7.1
15.6 | 16-Apr-13 348 5.5 <0.03 <0.5 0.6 63 <0.5 28.5 <0.1 124.92 14 1.5 <0.5 10 707 5.3 <0.05 47 0 <0.150 20 <0.150 20 <0.150 20 0.4 7.1 <0.002 3.06 40.150 2.9 <0.002 0.04 7.1 <0.002 3.06 19.4 7.1 0.002 3.06 19.4 10.64 213.84 15.8 | 724 | 722
7.1
21.7 | 23-Jul-13 5.1 <0.03 <0.5 <0.5 <0.5 64.2 <0.5 64.2 <0.5 30.3 <0.1 128.86 16 1.4 <0.5 719 1.6 36 40 <0.5 11.42 3.2 nm <0.05 <0.05 <0.05 <0.05 <0.07 11.19 219.43 | 726 | 730 | 08-Oct-13 | 7.2 | 735
7.2 |
| Alkalinity Aluminium Anmonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Strontium Strontium Strontium Strontium Suspended Solit Temp Thallium Time sampled Tin (µg/1) T.O.C. | ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | 3 200 0.23 mg/s. 5 1000 0.23 mg/s. 5 5 2500 2000 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 001 0 0.05 0 0.05 001 0 | 200 11 mg/l l 10 1000 5 200 30 30 30 10 1000 50 50 50 50 13 35 20 0.10 30 0.0005 5 150 | 150
0.175
7.5
7.5
750
3.75
187.5
37.5
1875
1500 | <0.03 60.9 27.6 <0.1 124.18 15 <0.5 54 <10 0.6 11.41 7 nm 2.3 <0.002 3.11 21 12.6 12.6 12.50 82.8 | 705 | 0.03
698
7.2
21 | 24-Apr-12 348 <5 <0.05 <0.5 0.59 57.3 <0.5 22.2 <0.1 109.38 16 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 | 633
7.1
22 | 702 | 5.9 <0.05 <0.51 <56.5 <0.5 <0.5 <1.6 <0.1 116.3 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 | 0.04
668
7.1
20.2 | 0.03
689
7
20.2 | 09-Oct-12
 | 720
6.9
20 | 671
7.1

 | 31-Jan-13 <5 <0.03 0.51 3.83 <0.1 118.55 12 <0.5 <0.05 -0.5
-0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0. | 12-Feb-13
 | 26-Mar-13
<0.03
691
7.1
15.6 | 16-Apr-13 348 5.5 <0.03 <0.5 0.6 63 <0.5 28.5 <0.1 124-92 14 1.5 <0.5 10 707 707 5.3 <0.05 47 0 <0.150 005 47 0 <0.150 005 47 1.1 3.6 0.05 0.5 11.3 1.6 0.05 11.3 1.6 0.05 11.3 1.6 0.05 11.3 1.6 0.05 0.5 11.3 1.6 0.05 0.5 11.3 0.05 0.5 11.3 0.05 0.5 11.3 0.05 0.5 11.3 0.05 0.5 11.3 0.05 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0. | 724 | 722
7.1
21.7 | 23-Jul-13 5.1 <0.03 <0.5 64.2 <0.5 64.2 <0.5 11.4 <0.5 16 1.4 <0.5 11.6 36 30.3 <0.1 128.86 16 1.4 <0.5 719 1.6 36 310 30.3 30.3 30.3 <0.1 11.4 30.5 30.3 30.3 30.3 30.3 30.3 30.3 30.3 | 726 | 730 | 08-Oct-13 | 7.2 | 735
7.2 |

Date Collected			IGV	2010 GW Regs	24-Jan-06	28-Feb-06	21-Mar-06		30-May-06	27-Jun-06	25-Jul-06	24-Aug-06	26-Sep-06	19-Oct-06		19-Dec-06		27-Feb-07	21-Mar-07		24-May-07	27-Jun-07	31-Jul-07	28-Aug-07	26-Sep-07	24-Oct-07	28-Nov-07	18-Dec-07
Aluminium	mg/I CaCC ug/I	200	200	150				420												232								
Ammonia Antimony	mg/l N ug/l	0.23 mg 5	/).11 mg/l l	0.175			<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	0.03	0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	0.06	0.04	0.07	<0.03	<0.03	<0.03	<0.03
Arsenic Barium	ug/l ug/l		10 100	7.5				70			<50			57.8	50.4		<50			<50		56.5	<50			<50		
Beryllium B.O.D.	ug/l mg/l O2																											
Boron Cadmium	μg/l μg/l		1000 5	750 3.75				77.6 <0.10			<0.10			<0.10	<0.10		<0.10			160.8 0.2		<0.10	<0.10			<0.10		
Calcium C.O.D.	mg/l Ca mg/l O2		200					160.68												108.01								
Chloride	mg/l Cl µg/l	250 50	30 30	187.5 37.5				58 9.2			37 2.4			41 3.2	34 4.1		30 4.4			30 5.1		32 <1	30 2.7			34 3.1		
Cobalt Coliform Bacteria	μg/l																											
	μS/cm @ 2 μg/l	25 2500	1000 30	1875 1500			1076	1056 6.7	1049	995	908	821	823	872	821	747	707	703	681	692 2.3	728	698	668	765	781	746	797	791
Cyanide	mg/l % Saturati	0.05	10					<0.05 60			75			68			73			<0.05 81			76			62		
E_ Coli Fluoride	No/100 ml		1000					0 <0.150			/5			00			73			<0.150			70			02		
Iron	mg/l µg/l	200	200	40.75				676.3			401			707.6	171.8		199.6			262.7		252.8	346.0			204.0		
Lead Magnesium	μg/l mg/l Mg	25	50	18.75				17 11.48			7.6			18.6	3.4		2.8			4.7 16.70		7.0	7.8			2.2		
Mercury	μg/l μg/l		50 1	0.75				91 <0.10			33.5			126.5	50.4		17.9			86.1 <0.10		143.3	69.9			15.0		
Molybdenum Nickel	μg/l μg/l		35 20	15				4			2.6			4.9	<1		<1			11.2		3.9	2.9			<1		
Nitrite o-Phosphate	mg/l N mg/l P	0.5	0.1 30	0.375				0.008			<0.003			<0.003	0.011		<0.003			0.006 <0.02		nm	0.007			0.005		
pH Phenol	mg/l	6.5 - 9.5	0.0005				6.9	7.1 0.124	7	7.3	7.3 0.004	7.2	7.5	7.3 0.019	7.2	7.3	7.4 0.023	7.1	7.2	7.4 <0.001	7.2	7.3	7.5 <0.01	7.2	7.2	7.3 <0.01	7.2	7.3
	mg/l		5				27.1	28.69 24.3	28.6	28.7	29.56 24	28.9	29.7	27.13 29.7	29.95 28.1	28.2	14.96 29.1	28.8	27.1	6.21 28.7	28.1	16.84 28.0	17.02 27.0	29.0	28.7	23.26 26.8	27.9	28.9
	μg/l	10					2,	20	20.0	20.7		20.0	20.7	20.7	20.1	20.2	20.1	20.0	27.1	20.7	20.1	20.0	27.0	20.0	20.7	20.0	27.0	20.0
Sodium	μg/l mg/l	200	150	150				28.5			24.72			23.19	25.98		14.93			36.12		14.50	15.31			20.09		
Sulphate	μg/l mg/l SO4	250	200	187.5				85												73.4								
Suspended Solid Temp	°C						6	11.8	14	13	17.5	11	11	11.5	11	8.0	9.6	11.0	10.0	13.6	nm	15.0	14.0	13.0	10.0	11.4	12	11
Thallium Time sampled	μg/l							13.15	13.25	13.45	11.1	13.2	13.15	13.55	13.15	13.45	11.00	13.10	13.25	14.05	nt	13.30	10.30	13.35	13.20	14.00	12.15	13.4
Tin (μg/I) T.O.C.	μg/l mg/l	NAC						2.2			2.8			2.1	1.7		1.5			3.1			3.3			1.8		
T.O.N Total S Solids	mg/l N		NAC					6.91			4.46			4.92	3.88	30	5.02			4.53		4.36	4.57			5.06		
Uranium	μg/l μg/l															1. 4												
																14.00												
Zinc	μg/l		100					13.5			5.8			17	6.7	100 m	5.4			8.7		17.3				12.5		
Zinc	μg/l		100					13.5			5.8			17	-05.6	ioi ar				8.7		17.3				12.5		
Date Collected				2010 GW Regs	22-Jan-08	26-Feb-08	19-Mar-08	29-Apr-08	27-May-08	26-Jun-08		27-Aug-08	30-Sep-08	17 30-Oct-08	700 SOI	REHOLE BH3/	4	24-Feb-09	24-Mar-09	28-Apr-09	26-May-09	1	21-Jul-09	18-Aug-09	29-Sep-09	12.5	17-Nov-09	08-Dec-09
Date Collected Alkalinity Aluminium	mg/l CaCC	200	IGV 200	150				29-Apr-08 304			31-Jul-08			30-Oct-08	26-Ng(v)8	REHOLE BH3/	A 20-Jan-09			28-Apr-09 288		23-Jun-09				20-Oct-09		
Date Collected Alkalinity Aluminium Ammonia Antimony	mg/l CaCO ug/l mg/l N ug/l	200	IGV 200 I/I.11 mg/l l	150 0.175	22-Jan-08	26-Feb-08	19-Mar-08	29-Apr-08	27-May-08	26-Jun-08		27-Aug-08	30-Sep-08 <0.03		26-Ng(-08	REHOLE BH3/	4	24-Feb-09 <0.03	24-Mar-09	28-Apr-09	26-May-09	1	21-Jul-09 <0.03	18-Aug-09	29-Sep-09 <0.03		17-Nov-09	08-Dec-09
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium	mg/l CaCO ug/l mg/l N ug/l ug/l	200 0.23 mg	IGV 200	150				29-Apr-08 304			31-Jul-08			30-Oct-08	26-Ng(v)8	REHOLE BH3/	A 20-Jan-09			28-Apr-09 288		23-Jun-09				20-Oct-09		
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barlum Beryllium B.O.D.	mg/l CaCO ug/l mg/l N ug/l ug/l ug/l ug/l ug/l	200 0.23 mg 5	1GV 200 1/1.11 mg/l l 100	150 0.175 7.5	0.06			29-Apr-08 304 0.03			31-Jul-08 0.05			30-Oct-08	26-Ng(v)8	REHOLE BH3/	20-Jan-09			28-Apr-09 288 0.03		23-Jun-09	<0.03			20-Oct-09 <0.03		
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium	mg/l CaCC ug/l mg/l N ug/l ug/l ug/l ug/l mg/l O2 µg/l	200 0.23 mg 5	1GV 200 //.11 mg/l l 10 100 1000 5	150 0.175	0.06			29-Apr-08 304 0.03 <50			31-Jul-08 0.05		<0.03	30-Oct-08 0.05-201	26-Ng(v)8	REHOLE BH3/	20-Jan-09			28-Apr-09 288 0.03 <50		23-Jun-09	<0.03			20-Oct-09 <0.03		
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D.	mg/l CaCO ug/l mg/l N ug/l ug/l ug/l ug/l mg/l O2 µg/l µg/l mg/l Ca mg/l Ca	200 0.23 mg 5 1000 5	1GV 200 1/.11 mg/l l 10 100 5 200	7.5 7.5 7.5 7.5 7.5	0.06			29-Apr-08 304 0.03 <50 <68.4 <0.10 140.98			31-Jul-08 0.05 <50 <0.10		<0.03	30-Oct-08	26-Ng(v)8	REHOLE BH3/	20-Jan-09 0.03 <50 <0.10			28-Apr-09 288 0.03 <50 64.5 <0.1 131.6		23-Jun-09	<0.03 <50 <0.1			<0.03 <0.1 <0.1		
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium C.O.D. Chloride Chromium	mg/l CaCO ug/l mg/l N ug/l ug/l ug/l ug/l mg/l O2 µg/l µg/l mg/l Ca	200 0.23 mg 5 1000 5	1GV 200 //.11 mg/l l 10 100 1000 5	150 0.175 7.5	0.06			29-Apr-08 304 0.03 <50			31-Jul-08 0.05		<0.03	30-Oct-08 0.05-201	26-Ng(v)8	REHOLE BH3/	20-Jan-09 0.03 <50			28-Apr-09 288 0.03 <50		23-Jun-09	<0.03			20-Oct-09 <0.03 <50		
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Co.D. Chloride Chromium Cobalt Coliform Bacteria	mg/l CaCC ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l o2 ug/l o2 ug/l o2 mg/l O2 ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg 5 1000 5 250 50	1GV 200 yl.11 mg/l 1 10 100 5 5 200 30 30 30	150 0.175 7.5 750 3.75 187.5 37.5	0.06 53 <0.10	<0.03	<0.03	29-Apr-08 304 0.03 <50 68.4 <0.10 140.98	0.03		31-Jul-08 0.05 <50 <0.10 39 <1		<0.03	30-Oct-08 0.05-01 0.05-01 0.010 40	26-Ng(v)8	REHOLE BH3/ 16-Dec-08	20-Jan-09 0.03 <50 <0.10			28-Apr-09 288 0.03 <50 64.5 <0.1 131.6	0.03	23-Jun-09	<0.03 <50 <0.1			<pre>20-Oct-09 <0.03 <<50 <0.1 40</pre>		
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity	mg/l CaCC ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	03	1GV 200 yl.11 mg/l 1 10 100 5 5 200 30 30 30	150 0.175 7.5 750 3.75	0.06 53 <0.10			29-Apr-08 304 0.03 <50 68.4 <0.10 140.98			31-Jul-08 0.05 <50 <0.10		<0.03	30-Oct-08 0.05-01 0.05-01 0.010 40	26-Ng(v)8	REHOLE BH3/	20-Jan-09 0.03 <50 <0.10			28-Apr-09 288 0.03 <50 64.5 <0.1 131.6		23-Jun-09	<0.03 <50 <0.1			<pre>20-Oct-09 <0.03 <<50 <0.1 40</pre>		
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O.	mg/l CaCC ug/l mg/l N ug/l ug/l ug/l ug/l ug/l mg/l O2 mg/l O3 mg/l O4 mg/l O4	200 0.23 mg 5 1000 5 1000 5 250 50 1) 0 252 2500 2000 0.05	1GV 200 1/11 mg/l 1 10 100 5 200 30 30 30 1000 1000	150 0.175 7.5 750 3.75 187.5 37.5	0.06 53 <0.10 36 <1 799	<0.03	<0.03	29-Apr-08 304 0.03 <50 68.4 <0.10 140.98 40 <1 830 3.6 <0.05	0.03	<0.03	31-Jul-08 0.05 <50 <0.10 39 <1 805	0.06	<0.03	30-Oct-08 0.05, 10 5140 <0.10 40 <1	26-No-08	REHOLE BH3/ 16-Dec-08	20-Jan-09 0.03 <50 <0.10 42 3.8 828	<0.03	<0.03	28-Apr-09 288 0.03 <50 <64.5 <0.1 131.6 43 1.5 846 2.1 <0.01	0.03	23-Jun-09 <0.03	<0.03 <50 <0.1 44 4.5	0.1	<0.03	<0.03 <0.03 <50 <0.1 40 2.8 834	<0.03	<0.03
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Colati Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli	mg/l CaCC ug/l mg/l N ug/l ug/l ug/l ug/l ug/l mg/l C2 pg/l mg/l C2 mg/l C3 mg/l C1 pg/l (No/100 ml pg/l mg/l (No/100 ml mg/l	200 0.23 mg 5 1000 5 250 50 1) 0 25 250 2000 0.05 ion	100V 200 111 mg/l l 10 100 5 200 30 30 30 1000	150 0.175 7.5 750 3.75 187.5 37.5	0.06 53 <0.10	<0.03	<0.03	29-Apr-08 304 0.03 <50 68.4 <0.10 140.98 40 <1 61 0	0.03	<0.03	31-Jul-08 0.05 <50 <0.10 39 <1	0.06	<0.03	30-Oct-08 0.05-01 5140 <0.10 40 <1	26-No-08	REHOLE BH3/ 16-Dec-08	20-Jan-09 0.03 <50 <0.10 42 3.8	<0.03	<0.03	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5 846 2.1 <0.01 63	0.03	23-Jun-09 <0.03	<0.03 <50 <0.1 44 4.5	0.1	<0.03	20-Oct-09 <0.03 <50 <0.1 40 2.8	<0.03	<0.03
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_ Coli Fluoride Iron	mg/l CaCCo ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l mg/l C2 pg/l mg/l C2 mg/l C3 mg/l C4 mg/l C4 mg/l C9 mg/l C1 pg/l pg/l yg/l yg/l yg/l wg/l yg/l yg/l yg/l yg/l yg/l	200 0.23 mg 5 1000 5 250 250 0.25 2500 0.05 100 0 0.5	200 //.11 mg/l 1 10 100 5 200 30 30 10 1000 200 200	150 0.175 7.5 7.5 750 3.75 187.5 37.5	0.06 53 <0.10 36 <1 799 58 309.5	<0.03	<0.03	29-Apr-08 304 0.03 <	0.03	<0.03	31-Jul-08 0.05 <50 <0.10 39 <1 805 57	0.06	<0.03	30-Oct-08 0.05; 40 <1 812 61 313.9	26-No-08	REHOLE BH3/ 16-Dec-08	20-Jan-09 0.03 <50 <0.10 42 3.8 828 60 238.9	<0.03	<0.03	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5 846 2.1 <0.01 63 <0.150 210.6	0.03	23-Jun-09 <0.03	<0.03 <50 <0.1 44 4.5 802 nm	0.1 0.1 803	<0.03	<pre>20-Oct-09 </pre> <pre><0.03 </pre> <pre><50 </pre> <pre><0.1 </pre> <pre>40 2.8 </pre> <pre>834 </pre> <pre><56</pre>	<0.03	<0.03
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium	mg/l CaCO ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 pg/l mg/l Ca mg/l Ca mg/l Ca mg/l Ca mg/l Ca mg/l O2 pg/l ug/l mg/l O3 pg/l ug/l wg/l wg/l % Saturati No/100 ml pg/l ug/l ug/l mg/l yg/l mg/l yg/l mg/l yg/l	200 0.23 mg 5 1000 5 250 2000 0.05 ion 0 0 25 250 250 255 250 2000 2005 ion 2000 255 250 250	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 750 3.75 187.5 37.5	0.06 53 <0.10 36 <1 799 58 309.5 3.2	<0.03	<0.03	29-Apr-08 304 0.03 <50 68.4 <0.10 140.98 40 <1 61 0 0 <0.05 61 0 <0.150 284.7 4.4 8.73	0.03	<0.03	31-Jul-08 0.05 <50 <0.10 39 <1 805 57 174.2 2.5	0.06	<0.03	30-Oct-08 0.0550 <0.10 40 <1 812 61 313.9 3.6	26-No-08	REHOLE BH3/ 16-Dec-08	20-Jan-09 0.03 <50 <0.10 42 3.8 828 60 238.9 <1	<0.03	<0.03	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5 846 2.1 <0.01 63 <0.150 210.6 3 8.22	0.03	23-Jun-09 <0.03	<0.03 <50 <0.1 44 4.5 802 nm <50 1.6	0.1 803	<0.03	<pre></pre>	<0.03	<0.03
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Baron Cadmium Coloide Chromium Cobalt Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury	mg/l CaCO ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg 5 10000 5 5 250 250 2000 0.05 ion 0 0.8 200 25 50 50 50 50 50 50 50 50 50 50 50 50 50	1000 1000 100 100 100 100 100 100 100 1	150 0.175 7.5 7.5 750 3.75 187.5 37.5	0.06 53 <0.10 36 <1 799 58 309.5	<0.03	<0.03	29-Apr-08 304 0.03 <-50	0.03	<0.03	31-Jul-08 0.05 <50 <0.10 39 <1 805 57	0.06	<0.03	30-Oct-08 0.05; 40 <1 812 61 313.9	26-No-08	REHOLE BH3/ 16-Dec-08	20-Jan-09 0.03 <50 <0.10 42 3.8 828 60 238.9	<0.03	<0.03	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5 846 2.1 <0.01 63 <0.150 210.6 3	0.03	23-Jun-09 <0.03	<0.03 <50 <0.1 44 4.5 802 nm	0.1 803	<0.03	<pre>20-Oct-09 </pre> <pre><0.03 </pre> <pre><50 </pre> <pre><0.1 </pre> <pre>40 2.8 </pre> <pre>834 </pre> <pre><56</pre>	<0.03	<0.03
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Mickel	mg/l CaCC ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 pg/l pg/l ug/l O2 mg/l Ca mg/l ug/l mg/l mg/l wS Saturati No/100 ml mg/l mg/l mg/l mg/l mg/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg 5 1000 5 1000 5 250 50 10 0.8 2000 0.05 10 0.8 200 205 11 20	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	0.06 53 <0.10 36 <1 799 58 309.5 3.2 17.4	<0.03	<0.03	29-Apr-08 304 0.03	0.03	<0.03	31-Jul-08 0.05 <50 <0.10 39 <1 805 57 174.2 2.5 32.7	0.06	<0.03	30-Oct-08 0.055-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	26-No-08	REHOLE BH3/ 16-Dec-08	20-Jan-09 0.03 <50 <0.10 42 3.8 828 60 238.9 <1 41	<0.03	<0.03	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5 2.1 <0.01 63 <0.150 210.6 3 8.22 15.5 <0.1 <1	0.03	23-Jun-09 <0.03	<0.03 <50 <0.1 44 4.5 802 nm -50 1.6 18.8	0.1 803	<0.03	<0.03 <0.03 <0.03 <0.03 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.03	<0.03
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium Coloride Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel	mg/l CaCCO ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 ug/l mg/l Ca mg/l ug/l mg/l mg/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l u	200 0.23 mg 5 1000 5 1000 5 250 50 1) 0 0.85 250 0 0.05 ion 0 0.88 200 255 50 1 1 200 0.55	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	0.06 53 <0.10 36 <1 799 58 309.5 3.2 17.4 <1 0.023	787	<0.03 <0.03	29-Apr-08 304 0.03 <50 68.4 <0.10 140.98 40 <1 0.05 61 0 <0.150 284.7 4.4 8.73 33.7 <0.10 <1 0.012 0.02	864	<0.03	31-Jul-08 0.05 <50 <0.10 39 <1 805 57 174.2 2.5 32.7 <1 0.009	805	<0.03	30-Oct-08 0.05p <0.10 40 <1 61 812 313.9 3.6 28.1 <1 0.004	80 No.04	REHOLE BH3/ 16-Dec-08 <0.03	20-Jan-09 0.03 <50 <0.10 42 3.8 828 60 238.9 <1 1 0.004 <0.02	<0.03 <0.03	<0.03 <0.03	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5 43 2.1 <0.01 63 3 8.22 15.5 <0.1 <10.002 0.002	827	23-Jun-09 <0.03 833	<0.03 <50 <0.1 44 4.5 802 nm 18.8 1.2 <0.002	0.1 803 803	<0.03	20-Oct-09 <0.03 <50 <0.1 40 2.8 834 56 <1 <1 <0.002	790	<0.03 <0.03
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium B.O.D. Beryllium B.O.D. Caloride Colloride Colloride Cohromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol	mg/l CaCO ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 ug/l mg/l Ca mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	200 0.23 mg 5 1000 5 1000 5 250 50 10 0.8 2000 0.05 10 0.8 200 205 11 20	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	0.06 53 <0.10 36 <1 799 58 309.5 3.2 17.4 <1 0.023 7.1 0.02	<0.03	<0.03	29-Apr-08 304 0.03 0.03 <50 68.4 <0.10 140.98 40 <1 61 0 284.7 4.4 8.73 33.7 <0.10 0.012 0.002 7.2 <0.011	0.03	<0.03	31-Jul-08 0.05 <50 <0.10 39 <1 805 174.2 2.5 32.7 <1 0.009 7.2 <0.01	0.06	<0.03	30-Oct-08 0.05; 01	26-No-08	REHOLE BH3/ 16-Dec-08	20-Jan-09 0.03 <50 <0.10 42 3.8 828 60 238.9 <1 31.1 <1 0.004 <0.02 7.1 0.001	<0.03	<0.03	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5 43 2.1 <0.01 63 210.6 3 8.22 15.5 <0.1 <1 5.5 <1 7.2 <1 0.002 0.002 0.002 7.2 <0.002	0.03	23-Jun-09 <0.03	<0.03 <50 <0.1 44 4.5 802 nm -50 1.6 18.8 1.2 -(0.002 -7.2 -(0.025)	0.1 803	<0.03	20-Oct-09	<0.03	<0.03
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium B.O.D. Beryllium B.O.D. Caloride Colloride Colloride Cohromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol	mg/l CaCC ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg 5 1000 5 1000 5 250 50 1) 0 0.85 250 0 0.05 ion 0 0.88 200 255 50 1 1 200 0.55	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	0.06 53 <0.10 36 <1 799 58 309.5 3.2 17.4 <1 0.023	787	<0.03 <0.03	29-Apr-08 304 0.03 <50 68.4 <0.10 140.98 40 <1 61 0.05 61 0.150 284.7 4.4 8.73 33.7 <0.10 <11 0.012 0.002 7.2	864	<0.03	31-Jul-08 0.05 <50 <0.10 805 57 174.2 2.5 32.7 <1 0.009 7.2	805	<0.03	30-Oct-08 0.055 51-4 <0.10 40 <1 61 812 812 61 313.9 3.6 28.1 7.1	80 No.04	REHOLE BH3/ 16-Dec-08 <0.03	3.8 828 828 60 238.9 61 61 60,004 60,002 7,1	<0.03 <0.03	<0.03 <0.03	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5 846 2.1 <0.01 63 <0.150 210.6 3 8.22 15.5 <0.1 <1 0.002 0.002 0.002 7.2	827	23-Jun-09 <0.03 833	<0.03 <50 <0.1 <44 4.5 802 nm <1.6 1.8 1.2 <0.002 7.2	0.1 803 803	<0.03	20-Oct-09 <0.03 <50 <50 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.002 < 0.002 < 0.1 < 0.002 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003 < 0.003	790	<0.03 <0.03
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Colliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite D-Phosphate pH Phenol Potassium Sampling Depth	mg/l CaCC ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg 5 1000 5 1000 5 250 50 1) 0 0.85 250 0 0.05 ion 0 0.88 200 255 50 1 1 200 0.55	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	0.06 53 <0.10 36 <1 799 58 309.5 3.2 17.4 <1 0.023 7.1 0.02 28.12	787	<0.03 824 7.1	29-Apr-08 304 0.03	0.03 864	<0.03 813 7.1	31-Jul-08 0.05 <50 <0.10 39 <1 805 57 174.2 2.5 2.5 32.7 <1 0.009 7.2 <0.01 23.97	0.06 805	<0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	30-Oct-08 0.055-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	0.04 0.04	820 7.2	20-Jan-09 0.03 <50 <0.10 42 3.8 828 60 238.9 <1 10.004 <0.002 7.1 0.01 24.05	<0.03 	<0.03 	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5	0.03 827	23-Jun-09 <0.03	<0.03 <50 <0.1 <44 4.5 <802 <nm 18.8="" 23.69<="" <0.002="" <0.025="" <1.2="" <7.2="" td=""><td>0.1 803 68 0</td><td><0.03 <0.03 804 7.4</td><td> 20-Oct-09 <0.03 <50 <50 <40.1 <40.1 <40.1 <40.1 <40.002 <40.002 <40.0015 <40.0015 <42.26 <40.0015 <42.26 <40.0015 <42.26 <40.0015 <40.0015</td><td>7.1</td><td><0.03 800 7.2</td></nm>	0.1 803 68 0	<0.03 <0.03 804 7.4	20-Oct-09 <0.03 <50 <50 <40.1 <40.1 <40.1 <40.1 <40.002 <40.002 <40.0015 <40.0015 <42.26 <40.0015 <42.26 <40.0015 <42.26 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015	7.1	<0.03 800 7.2
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Beryllium B.O.D. Caloride Colloride Colloride Colloride Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium	mg/l CaCO ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 pg/l mg/l O2 mg/l O2 mg/l Cl pg/l pg/l mg/l O3 mg/l O1 pg/l yg/l yg/l yg/l % Saturati No/100 ml pg/l yg/l yg/l yg/l yg/l yg/l yg/l yg/l y	200 0.23 mg 5 1000 5 1000 5 250 50 10 0.8 200 0.05 10 0.8 200 20 0.05 6.5 - 9.5	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	0.06 53 <0.10 36 <1 799 58 309.5 3.2 17.4 <1 0.023 7.1 0.02 28.12	787	<0.03 824 7.1	29-Apr-08 304 0.03	0.03 864	<0.03 813 7.1	31-Jul-08 0.05 <50 <0.10 39 <1 805 57 174.2 2.5 2.5 32.7 <1 0.009 7.2 <0.01 23.97	0.06 805	<0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 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827	23-Jun-09 <0.03	<0.03 <50 <0.1 <44 4.5 <802 <nm 18.8="" 23.69<="" <0.002="" <0.025="" <1.2="" <7.2="" td=""><td>0.1 803 68 0</td><td><0.03 <0.03 804 7.4</td><td> 20-Oct-09 <0.03 <50 <50 <40.1 <40.1 <40.1 <40.1 <40.002 <40.002 <40.0015 <40.0015 <42.26 <40.0015 <42.26 <40.0015 <42.26 <40.0015 <40.0015</td><td>7.1</td><td><0.03 800 7.2</td></nm>	0.1 803 68 0	<0.03 <0.03 804 7.4	20-Oct-09 <0.03 <50 <50 <40.1 <40.1 <40.1 <40.1 <40.002 <40.002 <40.0015 <40.0015 <42.26 <40.0015 <42.26 <40.0015 <42.26 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 <40.0015 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E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium St	mg/l CaCO ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg 5 1000 5 1000 5 250 50 1) 0 255 250 2000 0.05 ion 0 0.8 200 25 50 1 1 10 20 0.5 1 10 20 0.5 1 10 20 0.5 1 10 20 0.5 1 10 20 20 20 20 20 20 20 20 20 20 20 20 20	1000 5 200 1000 1000 1000 1000 1000 1000	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	0.06 53 <0.10 36 <1 799 58 309.5 3.2 17.4 <1 0.023 7.1 0.02 28.12 25.1	787	<0.03 824 7.1	29-Apr-08 304 0.03 <50 68.4 <0.10 140.98 40 <1 61 0 0.05 61 0 0.150 284.7 4.4 8.73 33.7 <0.10 10.012 0.002 7.2 <0.001 28.4 29	0.03 864	<0.03 813 7.1	31-Jul-08 0.05 <50 <0.10 805 57 174.2 2.5 32.7 <1 0.009 7.2 <0.01 23.97 28.7	0.06 805	<0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 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<1 0.004 <0.02 7.1 0.01 24.05 28.3	<0.03 	<0.03 	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5 846 2.1 <0.01 63 <0.150 210.6 3 8.22 15.5 <0.1 <11 0.002 0.02 7.2 <0.002 22.95 28.4	0.03 827	23-Jun-09 <0.03	<0.03 <50 <0.1 <44 4.5 <802 <nm 1.6="" 23.69="" 28<="" <0.002="" <0.025="" <1.2="" <1.6="" <1.8="" <7.2="" td=""><td>0.1 803 68 0</td><td><0.03 <0.03 804 7.4</td><td> 20-Oct-09 <0.03 <50 <50 <0.1 <0.1 <0.1 <0.1 <0.002 <0.002 <0.005 <0.0</td><td>7.1</td><td><0.03 800 7.2</td></nm>	0.1 803 68 0	<0.03 <0.03 804 7.4	20-Oct-09 <0.03 <50 <50 <0.1 <0.1 <0.1 <0.1 <0.002 <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 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Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium C.O.D. Chloride Chromium Cobalt Coliforn Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Solic Temp	mg/l CaCO ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg 5 1000 5 1000 5 250 50 1) 0 255 250 2000 0.05 ion 0 0.8 200 25 50 1 1 10 20 0.5 1 10 20 0.5 1 10 20 0.5 1 10 20 0.5 1 10 20 20 20 20 20 20 20 20 20 20 20 20 20	1000 5 200 1000 1000 1000 1000 1000 1000	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	0.06 53 <0.10 36 <1 799 58 309.5 3.2 17.4 <1 0.023 7.1 0.02 28.12 25.1	787	<0.03 824 7.1	29-Apr-08 304 0.03	0.03 864	<0.03 813 7.1	31-Jul-08 0.05 <50 <0.10 805 57 174.2 2.5 32.7 <1 0.009 7.2 <0.01 23.97 28.7	0.06 805	<0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	30-Oct-08 0.05c-0 51-0 <0.10 40 <1 61 812 812 61 61 7.1 0.03 25.41 28.3	0.04 0.04	820 7.2	20-Jan-09 0.03 <50 <0.10 42 3.8 828 60 238.9 <1 0.004 <0.02 7.1 0.01 24.05 28.3	<0.03 	<0.03 	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5	0.03 827	23-Jun-09 <0.03	<0.03 <50 <0.1 <44 4.5 <802 <nm 1.6="" 23.69="" 28<="" <0.002="" <0.025="" <1.2="" <1.6="" <1.8="" <7.2="" td=""><td>0.1 803 68 0</td><td><0.03 <0.03 804 7.4</td><td> 20-Oct-09 <0.03 <50 <50 <0.1 <0.1 <0.1 <0.1 <0.002 <0.002 <0.005 <0.0</td><td>7.1</td><td><0.03 800 7.2</td></nm>	0.1 803 68 0	<0.03 <0.03 804 7.4	20-Oct-09 <0.03 <50 <50 <0.1 <0.1 <0.1 <0.1 <0.002 <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 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.0	7.1	<0.03 800 7.2
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Barium Beryllium C.O.D. Caloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Suspended Solid Temp Thallium Time sampled	mg/l CaCC ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg 5 1000 5 1000 5 250 50 1) 0 255 250 2000 0.05 ion 0 0.8 200 25 50 1 1 10 20 0.5 1 10 20 0.5 1 10 20 0.5 1 10 20 0.5 1 10 20 20 20 20 20 20 20 20 20 20 20 20 20	1000 5 200 1000 1000 1000 1000 1000 1000	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	0.06 53 <0.10 36 <1 799 58 309.5 3.2 17.4 <1 0.023 7.1 0.02 28.12 25.1 22.14	787	<0.03 824 7.1 26.3	29-Apr-08 304 0.03 0.03 <50 68.4 <0.10 140.98 40 <1 61 0 0 284.7 4.4 8.73 33.7 <0.10 0.012 0.02 7.2 <0.01 28.4 29 21.6 81.7	0.03 864 7.2 28.3	<0.03 813 7.1 28.7	31-Jul-08 0.05 <50 <0.10 39 <1 805 57 174.2 2.5 32.7 <1 0.009 7.2 <0.01 23.97 28.7	0.06 805 7.2 28.4	824 824 7.1	30-Oct-08 0.055 <0.10 40 <1 61 812 61 313.9 3.6 28.1 <1 0.004 7.1 0.03 25.41 28.3	801 801 802 803 833	820 7.2 28.9	20-Jan-09 0.03 <50 <0.10 42 3.8 828 60 238.9 <1	<0.03 846 7.2 28.5	<0.03 840 7.2 28.8	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5 846 2.1 <0.01 63 210.6 3 8.22 15.5 <0.1 <15.5 <0.1 <1.5 22.95 28.4 20.01 80.1	0.03 827 7.2 28.9	23-Jun-09 <0.03 833 7.3 27.9	<0.03 <50 <0.1 44 4.5 802 nm 18.8 1.2 <0.002 7.2 <0.002 23.69 28 21.26	0.1 803 68 0 7.2 28.5	<0.03 <0.03 804 7.4 25.9	20-Oct-09	790	<0.03 800 7.2 25.3
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Barium Beryllium C.O.D. Calcium C.O.D. Calcium C.O.D. Coliforn Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Siliver Sodium Strontium Sulphate Suspended Solic Temp Thallium Time sampled Tin (µg/1) T.O.C.	mg/l CaCC ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg 5 1000 5 1000 5 250 50 1) 0 255 250 2000 0.05 ion 0 0.8 200 25 50 1 1 10 20 0.5 1 10 20 0.5 1 10 20 0.5 1 10 20 0.5 1 10 20 20 20 20 20 20 20 20 20 20 20 20 20	1000 5 200 1000 1000 1000 1000 1000 1000	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	0.06 53 <0.10 36 <1 799 58 309.5 3.2 17.4 <1 0.023 7.1 0.02 28.12 25.1 22.14 9.1 nt 3.5	787 787 7.2 27.9	<0.03 824 7.1 26.3	29-Apr-08 304 0.03	7.2 28.3	<0.03 813 7.1 28.7	31-Jul-08 0.05 <50 <0.10 39 <1 805 57 174.2 2.5 32.7 <1 0.009 7.2 <0.01 23.97 28.7 19.92 12.1 14	0.06 805 7.2 28.4	<0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	30-Oct-08 0.05-04	833 833 7.1 28.8	820 7.2 28.9	20-Jan-09 0.03 <50 <0.10 42 3.8 828 828 60 238.9 <1 0.004 <0.02 7.1 0.004 28.3 20.96 9.1 10.55	<0.03 846 7.2 28.5	<0.03 840 7.2 28.8	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5 846 2.1 <0.01 63 <0.150 210.6 3 8.22 15.5 <0.1 <1 0.002 7.2 <0.002 22.95 28.4 20.01 80.1 13 14.15 1.8	0.03 827 7.2 28.9	23-Jun-09 <0.03 833 7.3 27.9	<0.03 <50 <0.1 44 4.5 802 nm 18.8 1.2 <0.002 7.2 <0.002 23.69 28 21.26 14 13.3 3.5	0.1 803 803 68 0 7.2 28.5	7.4 25.9	20-Oct-09 <0.03 <50 <0.1 40 2.8 834 56 <1 <0.002 7.1 <0.005 24.26 28.9 20.97 10.8 13.45 4.2	790	<0.03 800 7.2 25.3
Date Collected Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Barium Coliform Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Solit Temp Thallium Time sampled Tin (µg/1)	mg/l CaCO ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg 5 1000 5 250 50 1) 0 225 2500 0.05 ion 0 25 50 1 1 200 25 1 1 200 25 1 1 200 25 1 1 200 25 25 25 25 25 25 25 25 25 25 25 25 25	1000 1000 200 110 1000 200 110 1000 50 50 50 1150 55 50 1150 200 1150 115	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	0.06 53 <0.10 36 <1 799 58 309.5 3.2 17.4 <1 0.023 7.1 0.022 28.12 25.1 22.14 9.1	787 787 7.2 27.9	<0.03 824 7.1 26.3	29-Apr-08 304 0.03 <50 68.4 <0.10 140.98 40 <1 61 0 0 <0.150 284.7 4.4 8.73 33.7 <0.10 10.012 0.02 7.2 c0.01 28.4 29 21.6 81.7	7.2 28.3	<0.03 813 7.1 28.7	31-Jul-08 0.05 <50 <0.10 39 <1 174.2 2.5 32.7 <1 0.009 7.2 <0.01 23.97 28.7 19.92	0.06 805 7.2 28.4	<0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 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812 812 61 313.9 3.6 28.1 <1 0.004 7.1 0.03 25.41 28.3 19.54 19.54	833 833 7.1 28.8	820 7.2 28.9	320-Jan-09 0.03 <50 <0.10 42 3.8 828 60 60 31.1	<0.03 846 7.2 28.5	<0.03 840 7.2 28.8	28-Apr-09 288 0.03 <50 64.5 <0.1 131.6 43 1.5	0.03 827 7.2 28.9	23-Jun-09 <0.03 833 7.3 27.9	<0.03 <50 <50 <44 4.5 <802 <nm 18.8="" 20.2="" 20.25="" 21.2="" 21.26="" 22.2="" 23.69="" 24.2="" 25.2="" 26.2="" 27.2="" 28="" 28.2="" 28.6="" 29.6="" <0.002="" <1.2="" <nm="" <nm<="" td=""><td>0.1 803 803 68 0 7.2 28.5</td><td>7.4 25.9</td><td> 20-Oct-09 <0.03 <50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.01 <0.01 <0.015 <0.015 </td><td>790</td><td><0.03 800 7.2 25.3</td></nm>	0.1 803 803 68 0 7.2 28.5	7.4 25.9	20-Oct-09 <0.03 <50 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.01 <0.01 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 <0.015 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Date Collected	DWR IGV	2010 GW Regs	13-Jan-10	23-Feb-10	23-Mar-10	27-Apr-10	18-May-10	15-Jun-10	27-Jul-10	24-Aug-10	21-Sep-10	19-Oct-10		REHOLE BH3A 21-Dec-10		15-Feb-11	29-Mar-11	12-Apr-11	10-May-11	14-Jun-11	12-Jul-11	09-Aug-11	06-Sep-11	04-Oct-11	08-Nov-11	13-Dec-11
Alkalinity Aluminium	mg/l CaCO3 ug/l 200 200	150				280					•							294								
Ammonia Antimony	mg/l N 0.23 mg/l.11 mg/l l ug/l 5	0.175	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.05	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	nm	<0.03	<0.03	<0.03	<0.03	<0.03
Arsenic Barium	ug/l 10 ug/l 100	7.5	45.7			45.1			46.8			51.8			46.3			47.6			46.7			41.8		
Beryllium B.O.D.	ug/l mg/l O2																									
Boron Cadmium	μg/l 1000 1000 μg/l 5 5	750 3.75	<0.1			55.3 <0.1			0.2			<0.1			<1			67.5 <0.1			<0.1			<0.1		
Calcium	mg/l Ca 200	3.73	V0.1			111.87			0.2			V0.1			\1			148.12			V0.1			V0.1		
C.O.D. Chloride	mg/I O2 mg/I CI 250 30	187.5	32			33			27			32			36			42			40			39		
Chromium Cobalt	μg/l 50 30 μg/l	37.5	1.2			<1			0.5			0.9			<5			0.6			0.6			<0.5		
Coliform Bacteria Conductivity	(No/100 ml) 0 µS/cm @ 25 2500 1000	1875	762	722	685	737	746	712	716	724		748	718	742	762	780	808	699	826	745	798	800	786	841	995	886
Copper Cyanide	μg/l 2000 30 mg/l 0.05 10	1500				2.1 <0.05												0.7 <0.05								
D.O. E_ Coli	% Saturation No/100 ml 0		72			78 1			63			57			71			65 nm			57			51		
Fluoride	mg/I 0.8 1000		<50			<0.150 81.5			64.6			56.0			<100			<0.150 82.8			<10			<10		
Lead	μg/l 25 10	18.75	<1			2.5			6.7			1.5			<5			1.1			<0.5			<0.5		
Manganese	mg/l Mg 50 μg/l 50 50		5.4			6.71 27			109.5			20.6			16.3			9.81 10.7			2.3			2.5		
Mercury Molybdenum	μg/l 1 1 μg/l 35	0.75				<0.1												0.1								
Nickel Nitrite	μg/l 20 20 mg/l N 0.5 0.1	15 0.375	<1 0.002			<1 0.002			1.1 0.005			0.7 0.024			<5 <0.002			<0.5 <0.002			<0.5 <0.002			<0.5 0.005		
o-Phosphate pH	mg/I P 30 6.5 - 9.5		7.3	7.3	7.3	<0.02 7.2	7.2	7.5	7.2	7.3		7.5	7.4	7.4	7.6	7.4	7.4	<0.02 7.2	7.2	7.1	7.3	7.3	7.3	7.4	7.3	7.2
Phenol Potassium	mg/l 0.0005 mg/l 5		<0.015 16.96		1	<0.015 23.13			<0.025 26.06			<0.025 26.00			<0.025 24.97		***	<0.013 27.33			<0.008			<0.016 29.22		
Sampling Depth Selenium	m		24.4	26.1	25.1	25.7	26	26.1	29.6	27.0	27.8	nm	28.5	28.8	25.5	27.9	26.9	27.1	21.5	27.9	27	27.3	27.3	27.3	26.5	26.5
Silver	μg/l	450	46.0=			47.70			44.50			20.40			40.30			24.40			15.00			10.76		
Sodium Strontium	mg/l 200 150 μg/l	150	16.07			17.78			14.63			20.10			19.29			21.49			15.86			19.76		
Sulphate Suspended Soli	mg/I SO4 250 200 dmg/I	187.5				79.2												78.7								
Temp Thallium	°C μg/l		10.4	10	10.4	16.2	14	12.4	23.0	11.5	15.6	11.1	9.6	9.6	10.2	11.0	11.5	13.5	12.7	12.8	12.7	13	12.8	13	12.2	11.5
Time sampled Tin (µg/I)	μg/l		14	13.15	13.05	14	13.05	13.3	10.35	13.05	11.50	14:15	14:00	13:00	4.00	13:10	13:15	nt	13:10	13:30	nt	12:40	10:30	13:50	14:40	11:45
T.O.C. T.O.N	mg/I NAC NAC		4.6 2.94			2.1 3.12			2.4 2.16			61.9 2.76		39	3.6 3.12			60.1 3.84			2.4 3.59			69.3 2.9		
	mg/l		2.51			5.12			2.10			2.70		14. 111. Or	3.12			3.01			3.33			2.3		
Vanadium Zinc	μg/l μg/l μg/l 100		2.5			7.5							Ó	. 3										12.6		
ZIIIC	μg/1													X	25.4			7.6								
			2.0			7.5			7.0			10.3	202 62		35.4			7.6			14.7			12.6		
Data Callegia	DWD LOV	2040 CW Page		07 Feb 42	42 Mar 42		45 May 42	07 lun 42		44 Ave 42	44 San 42		OUT OF BO	REHOLE BH3#		42 Fab 42	20 May 42		00 May 42	44 lun 42		07 Aug 42	47 5 - 12		40 New 42	02 Pec 42
Date Collected Alkalinity	DWR IGV	2010 GW Regs		07-Feb-12	13-Mar-12	24-Apr-12 288	15-May-12	07-Jun-12	24-Jul-12	14-Aug-12	11-Sep-12		OUT OF BO	REHOLE BH3A 11-Dec-12	31-Jan-13	12-Feb-13	26-Mar-13	16-Apr-13 272	08-May-13	11-Jun-13	23-Jul-13	07-Aug-13	17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia	mg/l CaCO3 ug/l 200 200 mg/l N 0.23 mg/l .11 mg/l l	2010 GW Regs 150 0.175		07-Feb-12 <0.03	13-Mar-12 <0.03	24-Apr-12 288 <5 <0.03	15-May-12 <0.03	07-Jun-12	24-Jul-12 <5 1.17	14-Aug-12 <0.03	11-Sep-12 0.13	09-Oct-12	06-Nov-12	REHOLE BH3 <i>A</i> 11-Dec-12 <5 <0.03	31-Jan-13 <5 <0.03	12-Feb-13 0.03	26-Mar-13 <0.03	16-Apr-13 272 <5 0.03	08-May-13	11-Jun-13	23-Jul-13 <5 <0.03	07-Aug-13	17-Sep-13	08-Oct-13 5.2 0.04	19-Nov-13	03-Dec-13 0.34
Alkalinity Aluminium	mg/I CaCO3 ug/I 200 200 mg/I N 0.23 mg/ .11 mg/I I ug/I 5	150	17-Jan-12			24-Apr-12 288 <5			24-Jul-12 <5 1.17 <0.5 <0.5		-	09-Oct-12	06-Nov-12	REHOLE BH3A 11-Dec-12	31-Jan-13			16-Apr-13 272 <5	-		23-Jul-13			08-Oct-13 5.2		
Alkalinity Aluminium Ammonia Antimony Arsenic Barium	mg/l CaCO3 ug/l 200 200 mg/l N 0.23 mg/l .11 mg/l l ug/l 5 ug/l 10 ug/l 100 ug/l 100	150 0.175	17-Jan-12			24-Apr-12 288 <5 <0.03 <0.5			24-Jul-12 <5 1.17 <0.5		-	09-Oct-12	06-Nov-12	Color	31-Jan-13 <5 <0.03 <0.5 <0.5 56.6			16-Apr-13 272 <5 0.03 <0.5	-		23-Jul-13 <5 <0.03 <0.5			08-Oct-13 5.2 0.04 <0.5		
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D.	mg/l CaCO3 ug/l 200 200 mg/l N 0.23 mg/l.11 mg/l l ug/l 5 10 ug/l 100 ug/l 100 ug/l mg/l O2	150 0.175 7.5	17-Jan-12 <0.03			24-Apr-12 288 <5 <0.03 <0.5 <0.5 45.7 <0.5			24-Jul-12 <5 1.17 <0.5 <0.5 44.7 <0.5		-	09-Oct-12	06-Nov-12	SEHOLE BH3A	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.6 <0.5			16-Apr-13 272 <5 0.03 <0.5 <0.5 <4.5 <0.5	-		23-Jul-13 <5 <0.03 <0.5 <0.5 <0.5 <0.5			08-Oct-13 5.2 0.04 <0.5 <0.5 56.5		
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium	mg/l CaCO3 ug/l 200 200 200 mg/l N 0.23 mg/l.11 mg/l l ug/l 5 ug/l 100 ug/l 100 ug/l mg/l O2 ug/l 1000 1000 ug/l mg/l 5 5 5	150 0.175	17-Jan-12 <0.03 47.1 58.3 <0.1			24-Apr-12 288 <5 <0.03 <0.5 <0.5 <0.5 <5.7 <0.5 <0.5			24-Jul-12 <5 1.17 <0.5 <0.5 44.7 <0.5 58 <0.1		-	09-Oct-12	06-Nov-12	11-Dec-12	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 50.6 <0.5 52.7 <0.1			16-Apr-13 272 <5 0.03 <0.5 <0.5 <0.5 54.5 <0.5	-		23-Jul-13 <5 <0.03 <0.5 <0.5 54.3 <0.5 61.6 <0.1			08-Oct-13 5.2 0.04 <0.5 <0.5 <0.5 56.5 <0.5		
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boroon Cadmium Calcium C.O.D.	mg/I CaCO3 ug/I 200 200 mg/I N 0.23 mg/.11 mg/I I ug/I 5 10 ug/I 100 ug/I 100 ug/I mg/I O2 ug/I 1000 1000 ug/I 5 5 mg/I Ca mg/I O2 ug/I 5 5 mg/I Ca mg/I O2 ug/I 0.00	150 0.175 7.5 750 3.75	<0.03 <p>47.1 58.3 40.1 121.68</p>			24-Apr-12 24-8 25 <0.03 <0.5 <0.5 <0.5 45.7 <0.5 56.2 <0.1 109.81			24-Jul-12 <5 1.17 <0.5 <0.5 44.7 <0.5 58 <0.1 122.63	<0.03	0.13	09-Oct-12	06-Nov-12	**************************************	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 56.6 <0.5 <0.1 128.73			16-Apr-13 272 <5 0.03 <0.5 <0.5 <0.5 <4.5 <0.5 4.5 <0.1 135.93	-		23-Jul-13 <5 <0.03 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73			08-Oct-13 5.2 0.04 <0.5 <0.5 <0.5 56.5 59.4 <0.1 134.28		
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium	mg/l CaCO3 ug/l 200 200 mg/l N 0.23 mg/l .11 mg/l ug/l 5 ug/l 100 ug/l 100 ug/l mg/l O2 ug/l 1000 1000 ug/l 5 5 mg/l Ca 200 mg/l Ca 200 mg/l Ca 250 30 ug/l 50 30	150 0.175 7.5	17-Jan-12 <0.03 47.1 58.3 <0.1			24-Apr-12 288 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.9 <0.1 109.81			24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 <44.7 <0.5 58 <0.1 122.63	<0.03	-	09-Oct-12	06-Nov-12	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <1.5 <0.5 45.1 <1.0 130.33	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 <56.6 <0.5 52.7 <0.1 128.73			16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.5 <0.5 <0.5 <0.5 40.5 60.1 135.93	-		23-Jul-13 <5 <0.03 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73			08-Oct-13 5.2 0.04 <0.5 <0.5 56.5 <0.5 59.4 <0.1 134.28		
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium	mg/l CaCO3 ug/l 200 200 mg/l N 0.23 mg/l.11 mg/l l ug/l 5 10 ug/l 100 ug/l 100 ug/l mg/l O2 ug/l 1000 1000 ug/l 1000 1000 ug/l 1000 1000 ug/l 5 5 mg/l Ca 200 mg/l C2 mg/l C2 mg/l C1 250 30 ug/l 50 30 ug/l Ug/l 50 30 ug/l 50 30 ug/l 50 30 ug/l Ug/l 50 30 ug/l Ug/l Ug/l 50 30 ug/l Ug/l	150 0.175 7.5 7.5 750 3.75 187.5 37.5	17-Jan-12 <0.03 47.1 58.3 <0.1 121.68 41 <0.5	<0.03	<0.03	24-Apr-12 288 <5 <0.03 <0.5 <0.5 46.7 <0.5 56.2 <0.1 109.81 41 <0.5 <0.5 108	<0.03	0.09	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5	<0.03	0.13	09-Oct-12	0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 45.1 <0.5 69.7 <0.1 130.33 42 1.6 <0.5	31-Jan-13 <5 <0.03 <0.5 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5	0.03	<0.03	16-Apr-13 272 <5 0.03 <0.5 <0.5 54.5 <0.5 56.4 <0.1 135.93	<0.03	<0.03	23-Jul-13 <5 <0.03 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5	<0.03	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5	0.9	0.34
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryilium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper	mg/l CaCO3 ug/l 200 200 mg/l N 0.23 mg/l.11 mg/l l ug/l 5 10 ug/l 100 ug/l 1000 ug/l 5 5 mg/l Ca 200 mg/l C3 200 mg/l C1 250 30 ug/l 50 30 ug/l 1000 ug/l 2000 30 ug/l 1000 ug	150 0.175 7.5 7.5 750 3.75	17-Jan-12 <0.03 47.1 58.3 <0.1 121.68			24-Apr-12 285 <0.03 <0.5 <0.5 <0.5 <0.5 <0.6 56.2 <0.1 109.81 41 <0.5 <0.5 108 807 <0.5			24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 <44.7 <0.5 58 <0.1 122.63	<0.03	0.13	09-Oct-12	06-Nov-12	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <1.5 <0.5 45.1 <1.0 130.33	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 <56.6 <0.5 52.7 <0.1 128.73			16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.5 <0.5 <4.0 <1.1 135.93 62 1.7 <0.5 14 883 0.8	-		23-Jul-13 <5 <0.03 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73			08-Oct-13 5.2 0.04 <0.5 <0.5 56.5 <0.5 59.4 <0.1 134.28		
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O.	mg/l CaCO3 ug/l 200 200 mg/l 0.23 mg/l.11 mg/l ug/l 5 10 ug/l 100 ug/l 100 ug/l 1000 ug/l 5 5 mg/l Ca 200 mg/l Ca 200 ug/l 50 30 ug/l 50 30 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 2000 30 mg/l 2000 30 mg/l 0.05 10 w Saturation 1000 ug/l 1000 ug/l	150 0.175 7.5 750 3.75 187.5 37.5	17-Jan-12 <0.03 47.1 47.1 58.3 <0.1 121.68 41 <0.5 892 892	<0.03	<0.03	24-Apr-12 285 <0.03 <0.05 <0.5 <0.5 <0.5 <0.5 45.7 <0.1 109.81 41 41 60.5 <0.5 <0.5 <0.5 <0.5 40.7 40.6 46	<0.03	0.09	24-Jul-12 <5 1.17 <0.5 <0.5 <44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <694	<0.03	0.13	09-Oct-12	0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <45.1 <0.5 <69.7 <0.1 130.33 42 1.6 <0.5 <847	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5 <0.5 849	0.03	<0.03	16-Apr-13 272 <5 0.03 <0.5 <0.5 <40.5 56.4 <0.1 135.93 62 1.7 <0.5 14 883 0.8 <40.05 61	<0.03	<0.03	<pre></pre>	<0.03	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 <0.5 56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5	0.9	0.34
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Colcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide	mg/l CaCO3 ug/l 200 200 mg/l N 0.23 mg/l .11 mg/l l ug/l 5 ug/l 100 ug/l 100 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 5 5 mg/l Ca 200 mg/l O2 ug/l 5 5 5 mg/l Ca 200 mg/l O2 ug/l 50 30 ug/l 50 30 ug/l 50 30 ug/l 50 30 ug/l 1000 ug/l 2000 30 mg/l 0.05 10 % Saturation No/100 ml 0 0 mg/l 0.05 10 mg/l 0.05	150 0.175 7.5 750 3.75 187.5 37.5	17-Jan-12 <0.03 47.1 47.1	<0.03	<0.03	24-Apr-12 288 <5 <0.03 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 56.2 <0.1 109.81 41 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.03	0.09	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 <44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.8	<0.03	0.13	09-Oct-12	0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 45.1 <0.5 69.7 <0.1 130.33 42 1.6 <0.5 847 1.4	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5 849 1.1	0.03	<0.03	16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.5 <0.5 <4.5 <0.5 56.4 <0.1 135.93 62 1.7 <0.5 14 883 0.8 <0.05	<0.03	<0.03	23-Jul-13 <5 <0.03 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5	<0.03	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 874 1.2	0.9	0.34
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryilium B.O.D. Boron Cadmium Calcium C.O.D. Choride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron	mg/l CaCO3 ug/l 200 200 200 mg/l N 0.23 mg/l.11 mg/l ug/l 5 10 ug/l 100 ug/l 1000 ug/l 5 5 mg/l Ca 200 mg/l Ca 200 mg/l C3 250 30 ug/l 50 30 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 2000 30 mg/l 0.05 10 ug/l 1000 ug/l 0.8 1000 mg/l 0.8 1000 mg/l 0.8 1000 mg/l 0.8 1000 ug/l 200 200 200	150 0.175 7.5 7.5 750 3.75 187.5 37.5	17-Jan-12 <0.03 47.1 47.1 58.3 <0.1 121.68 41 <0.5 892 0.6 60 <10	<0.03	<0.03	24-Apr-12 285 <85 <0.03 <0.5 <0.5 <0.5 45.7 <0.5 56.2 <0.1 109.81 41 <0.5 <0.5 108 807 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.03	0.09	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 44.7 <0.5 58 <0.1 122.63 42 0.5 <0.6 694 0.8 53	<0.03	0.13	09-Oct-12	0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <45.1 <0.5 <0.5 45.1 <0.5 45.1 130.33 42 1.6 <0.5 <0.5 <0.5 <0.5 <0.1 130.33	31-Jan-13 <5 <0.03 <0.5 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5 849 1.1 56	0.03	<0.03	16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.5 <0.5 \$4.5 <0.5 \$54.5 \$4.0 \$135.93 62 1.7 \$4.5 \$4.5 \$6.4 \$6.1 \$6.1 \$6.5 \$6.4 \$6.1 \$6.5 \$6.6 \$6.7 \$6.5 \$6.6 \$6.7 \$6.7 \$6.7 \$6.8 \$6.8 \$6.8 \$6.8 \$6.8 \$6.8 \$6.8 \$6.8 \$6.9	<0.03	<0.03	23-Jul-13 <5 <0.03 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50	<0.03	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 <0.5 56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 874 1.2 62	0.9	0.34
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium	mg/l CaCO3 ug/l 200 200 mg/l 10 0.23 mg/l .11 mg/l ug/l 5 10 ug/l 100 ug/l 100 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 5 5 mg/l Ca 200 mg/l Ca 200 ug/l 5 5 30 ug/l 5 30 ug/l 1000 ug/l	150 0.175 7.5 750 3.75 187.5 37.5	17-Jan-12 <0.03 47.1 47.1 58.3 <0.1 121.68 41 <0.5 892 0.6 60 <10 <0.5 8.51	<0.03	<0.03	24-Apr-12 285 <0.03 <0.05 <0.5 <0.5 <45.7 <0.5 56.2 <0.1 109.81 41 <0.5 <0.5 <0.5 <0.5 108 807 <0.5 <0.5 <10.6 7 <0.150 <10.6 <10.7 <0.150 <10.8	<0.03	0.09	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <10.5 <0.5 8.27	<0.03	0.13	09-Oct-12	0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <45.1 <0.05 <0.1 130.33 42 1.6 <0.5 <55 <0.5 <0.5 <0.1 42 1.6 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.7 <0.1 42 42 42 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5	31-Jan-13 <5 <0.03 <0.5 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5 849 1.1 17.4 <0.5 8.18	0.03	<0.03	16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.5 <0.5 <5.5 <0.5 56.4 <0.1 135.93 62 1.7 <0.5 14 883 0.8 <0.05 61 0 <0.150 <10 <0.5 8.89	<0.03	<0.03	23-Jul-13 <5 <0.03 <0.5 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50 <10 <0.9	<0.03	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 <0.5 56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 874 1.2 62 11.9 <0.5 9.03	0.9	0.34
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_ Coli Fluoride Iron Lead Magnesium Manganese Mercury	mg/l CaCO3 ug/l 200 200 mg/l N 0.23 mg/l .11 mg/l l ug/l 5 100 ug/l 1000 ug/l 5 5 5 0 0 0 0 0 0 0	150 0.175 7.5 7.5 750 3.75 187.5 37.5	17-Jan-12 <0.03 47.1 47.1 58.3 <0.1 121.68 41 <0.5 892 0.6 60 <10 <0.5	<0.03	<0.03	24-Apr-12 24-8 24-8 25 20.03 20.5 20.5 45.7 20.5 56.2 20.1 109.81 41 40.5 20.5 20.5 108 807 20.5 46 7 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	<0.03	0.09	24-Jul-12 <5 1.17 <0.5 <0.5 <40.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.5 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 <10 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.	<0.03	0.13	09-Oct-12	0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <45.1 <0.5 69.7 <0.1 130.33 42 1.6 <0.5 55 69.7 <0.1 130.33	31-Jan-13 <5 <0.03 <0.5 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5 40.5 54 0.6 1.1 56 17.4 <0.5 8.18 7.5	0.03	<0.03	16-Apr-13 272 <5 0.03 <0.5 <0.5 <4.5 <0.5 54.5 <0.1 135.93 62 1.7 <0.5 14 883 0.8 <0.05 61 0 0 <0.150 <0.150 <0.5 8.889 6.5 <0.05	<0.03	<0.03	23-Jul-13 <5 <0.03 <0.5 <0.5 <0.5 <54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50 <10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5 10 <0.5	<0.03	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 <56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 874 1.2 62 11.9 -0.5 9.03 4.6 nm	0.9	0.34
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium C.O.D. Cadmium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel	mg/l CaCO3 ug/l 200 200 ug/l 200 ug/l 5 11 mg/l 100 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 5 5 5 mg/l Ca 200 mg/l 5 2500 1000 ug/l 200 ug/l 1000 1000 ug/l 5 5 5 mg/l Ca 200 mg/l 5 5 30 ug/l 50 30 ug/l 50 30 ug/l 1000 ug/l 2500 1000 ug/l 2000 ug/l 250 1000 ug/l 250 ug/l 250 ug/l 1 1 ug/l 35 ug/l 20 200 ug/l 20 200 ug/l 200 ug/l 1 1 1 ug/l 35 ug/l 20 200 ug/l 200 ug/l 200 ug/l 200 ug/l 35 ug/l 20 200 ug/l	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12 <0.03 47.1 58.3 <0.1 121.68 41 <0.5 60 <0.5 60 <10 <0.5 8.51 <1 nm <0.5	<0.03	<0.03	24-Apr-12 24-8	<0.03	0.09	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 <44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 <10.6 694 0.8 53 <10 <0.6 8.27 2.2 nm <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.03	0.13	09-Oct-12	0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 46.1 <0.5 69.7 <0.1 130.33 42 1.6 <0.5 847 1.4 55 <10 <0.5 <0.5	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5 849 1.1 56 17.4 <0.5 8.18 7.5 nm <0.5 <0.5	0.03	<0.03	16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.4 <0.1 135.93 62 1.7 <0.5 14 883 0.8 80.05 61 0 <0.150 <1.05 <0.150 <0.150 <0.05 8.889 6.5 <0.05 <0.05	<0.03	<0.03	23-Jul-13 <5 <0.03 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 50 <10 <0.5 10 <0.5 10 <0.5 9.09 3.1 nm <0.5 <0.5	<0.03	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 <56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 62 11.9 <0.5 9.03 4.6 nm <0.5 1	0.9	0.34
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite	mg/l CaCO3 ug/l 200 200 ug/l 200 200 ug/l 5 ug/l 100 ug/l 100 ug/l 1000 ug/l 1000 ug/l 5 5 mg/l Ca 200 mg/l Ca 250 30 ug/l 5 5 mg/l Ca 250 30 ug/l 5 5 30 ug/l 5 5 mg/l Ca 250 30 ug/l 50 00 ug/l 50 ug/l	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12 <0.03 47.1 47.1	<0.03 <0.03	<0.03 <0.03 807	24-Apr-12 285 <0.03 <0.05 <0.5 <0.5 <0.5 <0.6 2 <0.1 109.81 41 <0.5 <0.5 <0.5 <0.5 <0.5 40.5 20.5	779	0.09	24-Jul-12 <5 1.117 <0.5 <0.5 <0.5 44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 694 0.8 53 <10 <0.5 8.27 2.2 nm <0.5 <0.5 <0.5 0.056	<0.03 <0.03	0.13 0.13	09-Oct-12	0.04 829	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 45.1 <0.5 69.7 <0.1 130.33 42 1.6 <0.5 <1.6 <0.5 55 447 1.4	31-Jan-13 <5 <0.03 <0.5 <0.5 56.6 <0.5 55.7 <0.1 128.73 54 0.6 <0.5 55.8 849 1.1 17.4 <0.5 8,18 7.5 nm <0.5 <0.5 0.004	822	<0.03 840	16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.5 <0.5 <5.5 <0.5 <0.5 54.5 <0.1 135.93 62 1.7 <0.5 14 8.83 0.8 <0.05 61 0 <0.150 <0.150 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	<0.03	<0.03 889	23-Jul-13 <5 <0.03 <0.5 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50 <10 <0.5 <0.5 <0.5 <0.5 0.002	<0.03	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 62 11.9 <0.5 9.03 4.6 nm <0.5 1 0.012	903	901
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Condium Coliform Cobalt Coliform Bacteria Conductivity Conductivity Conductivity Coliform Bacteria Coliform Bact	mg/l CaCO3 ug/l 200 200 mg/l 10 0.23 mg/l .11 mg/l ug/l 5 10 ug/l 100 ug/l 1000 ug/l 5 5 mg/l Ca 200 mg/l Ca 200 ug/l 50 30 ug/l 50 30 ug/l 1000 ug/l 50 30 ug/l 1000 ug/l 250 30 ug/l 1000 ug/l 2000 30 mg/l 2000 30 mg/l 2000 30 mg/l 2000 ug/l 2000 ug/l 200 ug/l 25 10 mg/l 200 200 ug/l 25 10 mg/l 35 ug/l 35 ug/l 35 ug/l 35 ug/l 20 20 ug/l 20 0.1 ug/l 0.5 0.1 ug/l ug/l 0.5 0.1 ug/l ug/l 0.5 0.1 ug/l ug/l 0.5 0.1 ug/l ug/l ug/l ug/l 0.5 0.1 ug/l ug	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12	<0.03	<0.03	24-Apr-12 245 245 240.03 20.5 20.5 20.5 45.7 45.7 45.7 109.81 41 20.5 108 80.7 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	<0.03	0.09	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 <44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 42.0 5 694 0.8 <10 <0.5 8.27 2.2 nm <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.03	0.13	09-Oct-12	0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 46.1 <0.5 69.7 <0.1 130.33 42 1.6 <0.5 847 1.4 55 <10 <0.5 <0.5	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5 40.5 54 0.6 55.7 54 0.6 55.7 50.5 50.6 70.5 50.7 70	0.03	<0.03	16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.5 <0.5 54.5 <0.1 135.93 62 1.7 <0.5 14 883 0.8 <0.05 61 0 <0.150 <1.10 <0.5 <0.5 <0.5 0.05 0.000	<0.03	<0.03	23-Jul-13 <5 <0.03 <0.5 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50 <10 <0.5 -10 <0.5 -10 <0.5 -10 <0.5 -10 -10 -10 -10 -10 -10 -10 -10 -10 -1	<0.03	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 <56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 62 11.9 <0.5 9.03 4.6 nm <0.5 1	0.9	0.34
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. EColi Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium	mg/l CaCO3 ug/l 200 200 ug/l 200 200 ug/l 5 11 mg/l 100 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 5 5 5 mg/l 5 5 5 ug/l 5 5 1000 ug/l 5 5 5 ug/l 5 5 1000 ug/l 5 5 5 ug/l 5 5 1000 ug/l 5 5 5 ug/l 5 5 5 5 ug/l ug/l 5 ug/l ug	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12 <0.03 47.1	<0.03 <0.03	<0.03 <0.03 807	24-Apr-12 24-8	779	0.09	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.03 <0.03	0.13 0.13	09-Oct-12	0.04 829	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <45.1 <0.5 <69.7 <0.1 130.33 42 1.6 <0.5 <1.4 <0.5 <0.5 <0.5 <0.5 <0.7 <0.1 130.33	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5	822	<0.03 840	16-Apr-13 2-72 2-75 0.03 -(0.5 -(0.5) -(0.5) -(0.5) -(0.5) -(0.1) -(0.1) -(0.1) -(0.1) -(0.5)	<0.03	<0.03 889	23-Jul-13 <5 <0.03 <0.5 <0.5 54.3 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50 <10 <0.5 0.05 50	<0.03	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 <56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 62 11.9 <0.5 9.03 4.6 nm <0.5 1 0.012	903	901
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Cadmium Calcium C.O.D. Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium	mg/l CaCO3 ug/l 200 ug/l 200 ug/l 5 10 ug/l 100 ug/l 100 ug/l 1000 ug/l 5 5 mg/l Ca 200 mg/l C3 250 30 ug/l 50 30 ug/l 1000 ug/l 50 30 ug/l 50 30 ug/l 50 30 ug/l 1000 ug/l 2000 30 mg/l 0.05 10 ug/l 2000 30 mg/l 0.05 10 ug/l 2000 ug/l 25 10 ug/l 200 200 ug/l 25 10 ug/l 25 10 ug/l 25 10 ug/l 25 10 ug/l 25 50 ug/l 1 1 ug/l 20 20 ug/l 20 20 ug/l 20 20 ug/l 35 ug/l 20 20 ug/l 35 ug/l 20 20 ug/l 35 ug/l 30 ug/l 35 ug/l 30 ug/l 50 0.1 ug/l 50 ug/l ug/l 50 ug/l ug/l ug/l ug/l ug/l ug/l ug/l	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12 <0.03 47.1 47.1 58.3 <0.1 121.68	<0.03 820 7.2	<0.03 807 7.2	24-Apr-12 245 245 246 240.03 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5	779	0.09 873	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 <4.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	822	0.13 0.13 851	09-Oct-12 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 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0.03 <0.5 <0.5 <5.4 <0.1 135.93 62 1.7 <0.5 64 883 0.8 883 0.8 40.05 61 0 0 <0.150 <1.05 <0.150 <1.05 <0.05 8.89 6.5 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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<0.05 <0.05 <0.05 <0.05 <0.05 <0	<0.03 <0.03 895	889	23-Jul-13 <5 <0.03 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 50.5 50.5 10 <0.5 -0.5 50 -10 <0.5 9.09 3.1 nm <0.5 -0.5 -0.002 -0.10 -0.002 -0.10 -0.002 -0.10	<0.03 <0.03 862	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 <56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 874 1.2 62 11.9 <0.5 9.03 4.6 nm <0.5 1 0.012 7.1 <0.002 25.5	903	901
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Codmium Calcium Coloride Chromium Cobalt Collform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium	mg/l CaCO3 ug/l 200 200 ug/l 200 200 ug/l 5 10 ug/l 100 ug/l 1000 ug/l 10000 ug/l ug/l 10000 ug/l ug/l ug/l ug/l 10000 ug/l ug/l	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12 <0.03 47.1 47.1 58.3 <0.1 121.68	<0.03 820 7.2	<0.03 807 7.2	24-Apr-12 245 285 <0.03 <0.5 <0.5 <0.5 <40.7 40.7 40.1 109.81 41 41 41 40.5 <0.5 <0.5 46 7 40.15 <0.5 46 7 40.150 <10 40 40 7 40.150 <10 40 40 40 40 40 40 40 40 40 40 40 40 40	779	0.09 873	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 <1.0 <0.5 <0.5 7.2 <0.002 24.31 1 nm 18.48	822	0.13 0.13 851	09-Oct-12 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	0.04 0.04 0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <45.1 <0.5 <0.5 45.1 130.33 42 1.6 <0.5 <55 <0.5 42 1.4 55	31-Jan-13 <5 <0.03 <0.05 <0.05 <0.05 56.6 <0.05 52.7 <0.1 128.73 54 0.6 <0.5 849 1.1 17.4 <0.5 8.18 7.5 nm <0.5 <0.5 20.5 20.002 21.35 23 0.9 nm 17.77	822 7.2	<0.03 840 7.1	16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.5 <4.5 <0.5 56.4 <0.1 135.93 62 1.7 <0.5 14 883 0.8 <0.05 61 0 <0.150 <10 <0.150 <10 <0.5 0.8 0.005 <0.5 0.8 0.004 0.02 7.2 <0.002 22.02 24.9 0.6 nm 20.7	<0.03 <0.03 895	889	23-Jul-13 <5 <0.03 <0.5 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50 <10 <0.5 9.09 3.1 nm <0.5 <0.5 <0.5 2.4 0.5 0.002 24.58 26.8 0.7	<0.03 <0.03 862	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 <0.5 56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 874 1.2 62 11.9 <0.5 9.03 4.6 nm <0.5 1 0.012 7.1 <0.002 25.5 13 0.7	903	901
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Coloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate	mg/l CaCO3 ug/l 200 200 ug/l 200 200 ug/l 5 10 ug/l 100 ug/l 1000 ug/l 10000 ug/l ug/l 10000 ug/l	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12 <0.03	<0.03 820 7.2	<0.03 807 7.2	24-Apr-12 245 246 245 246 246 247 247 248 248 248 248 248 248 248 248 248 248	779	0.09 873	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 <4.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	822	0.13 0.13 851	09-Oct-12 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	0.04 0.04 0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <1.5 <0.5 <0.1 130.33 42 1.6 <0.5 <1.4 <1.6 <0.5 <0.5 <0.6 <0.7 <0.1 130.33 42 1.6 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 52.7 <0.1 128.73 54 0.6 <0.5	822 7.2	<0.03 840 7.1	16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.5 <0.5 <5.4 <0.1 135.93 62 1.7 <0.5 14 883 0.8 <0.05 61 0 <0.15 <10 <0.5 <0.5 <0.5 20.5 20.5 20.6 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	<0.03 <0.03 895	889	23-Jul-13 <5 <0.03 <0.5 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50 <10 <0.5 0.05 50 <10 <0.5 0.05 2 <0.5 50 <10 <0.5 0.05 0.002 7.1 <0.002 24.58 26.8 0.7	<0.03 <0.03 862	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 <56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 62 11.9 <0.5 9.03 4.6 nm <0.5 1 0.012 7.1 <0.002 25.5 13 0.7	903	901
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Calcium Coobalt Coliforn Bacteria Conductivity Copper Cyanide D.O. E_ Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Soli Temp	mg/l CaCO3 ug/l 200 200 ug/l 200 200 ug/l 5 11 mg/l 100 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 1000 ug/l 5 5 5 mg/l 200 1000 ug/l 5 5 5 mg/l 200 1000 ug/l 1000 ug/l 5 5 5 mg/l 1000 1000 ug/l 5 5 5 mg/l 1000 1000 ug/l 1000 u	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12 <0.03	<0.03 820 7.2	<0.03 807 7.2	24-Apr-12 245 246 245 246 246 247 247 248 248 248 248 248 248 248 248 248 248	779	0.09 873	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 <4.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 -0.5 0.8 53 <10 <0.5 0.8 53 <10 <0.5 0.05 0.05 10 10 10 10 10 10 10 10 10	822	0.13 0.13 851	09-Oct-12 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	0.04 0.04 0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <1.5 <0.7 <0.1 130.33 42 1.6 <0.5 <1.6 <0.5 <0.5 <0.6 <0.7 <0.1 130.33 42 1.6 <0.5 <0.5 <0.5 <0.6 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 52.7 <0.1 128.73 54 0.6 <0.5	822 7.2	<0.03 840 7.1	16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.4 <0.5 56.4 <0.1 135.93 62 1.7 <0.5 14 883 0.8 <0.05 61 0 <0.150 <0.5 8.89 6.5 <0.05 0.000 0.002 7.2 <0.002 24.9 0.6 nm 20.7 189.75 75.4	<0.03 <0.03 895	889	23-Jul-13 <5 <0.03 <0.5 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50 <10 <0.5 0.05 50	<0.03 <0.03 862	0.23	08-Oct-13 5.2 0.04 <0.5 <0.5 <56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 62 874 1.2 62 11.9 <0.5 9.03 4.6 nm <0.5 1 0.012 7.1 <0.002 25.5 13 0.7 20.53 204.77	903	901
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Cadmium Calcium Co.D. Chloride Chromium Cobalt Coliforn Bacteria Conductivity Copper Cyanide D.O. EColi Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Soli Temp Thalilium Time sampled	mg/l CaCO3 ug/l 200 200 ug/l 200 200 ug/l 5 10 ug/l 100 ug/l 1000 ug/l 10000 ug/l ug/l 10000 ug/l	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12 <0.03 47.1	<0.03 820 7.2 25.7	<0.03 807 7.2 26.1	24-Apr-12 24-8	779	0.09 873 7.3	24-Jul-12 <5 1.17 <0.5 <0.5 <0.5 <4.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 -0.	<0.03 822 7.2 26	0.13 851 7.1	09-Oct-12 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	06-Nov-12 0.04 0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.1 130.33 42 1.6 <0.5 <0.5 <0.5 <0.6 <0.7 <0.1 130.33 1.6 <0.5 55 9.45 2.2 nm <0.5 0.01 7.2 <0.002 24.002 24.003 26 c0.5 nm 23.3 161.63	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 <5.6.6 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5 849 1.1 56 17.4 <0.5 8.18 7.5 nm <0.5 0.004 7.2 <0.002 21.35 23 0.9 nm 17.77 177.3	0.03 822 7.2 23.8	<0.03 840 7.1 26.1	16-Apr-13 272 <5 0.03 <0.05 <0.5 <54.5 <0.5 56.4 <0.1 135.93 62 1.7 <0.5 14 883 0.8 80.05 61 0 <0.150 <10.5 8.89 6.5 <0.05 8.89 6.5 <0.005 <0.5 8.89 0.004 0.02 7.2 <0.002 22.02 24.9 0.6 nm mm 20.7 189.75 75.4	<0.03 895 7.2 25	<0.03 889 7.2 26.4	23-Jul-13 <5 <0.03 <0.5 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 50 50 <10 <0.5 -10 <0.5 9.09 3.1 nm <0.5 <0.5 -0.002 7.1 <0.002 24.58 26.8 0.7 20.88 195	<0.03 <0.03 862 7.2 26.3	0.23 864 7.1	08-Oct-13 5.2 0.04 <0.5 <0.5 <56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 874 1.2 62 11.9 <0.5 9.03 4.6 nm <0.5 1 0.012 7.1 <0.002 25.5 13 0.7 20.53 204.77	903 7.1	901 7.1 27.8
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Cadmium Calcium Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molyddenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Soli Temp Thallium Time sampled	mg/l CaCO3 ug/l 200 200 mg/l 100 1000 ug/l	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12 <0.03 47.1 47.1 47.1 121.68 41 <0.5 60	<0.03 820 7.2 25.7	<0.03 807 7.2 26.1	24-Apr-12 285 <0.03 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	779	0.09 873 7.3 26	24-Jul-12 <5 1.17 <0.5 <0.5 <4.7 <0.5 44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 1.1 22.63 42 0.5 0.5 0.5 0.5 1.1 1.1 1.1 1.1	<0.03 <0.03 822 7.2 26 14.6	0.13 851 7.1 27	09-Oct-12 	0.04 0.04 0.04 0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <45.1 <0.5 <0.5 69.7 <0.1 130.33 42 1.6 <0.5 <5.5 45.1 1.4 55 51 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5 849 1.1 17.4 <0.5 8.118 7.5 nm <0.5 <0.5 <0.5 21.35 20.9 0.90 17.77 177.3	7.2 23.8	7.1 26.1	16-Apr-13 272 <5 0.03 <0.5 <0.5 <5.5 <4.5 <0.5 56.4 <0.1 135.93 62 1.7 <0.5 14 883 0.8 <0.05 61 0 <0.150 <10 <0.150 <10 <0.150 <20.5 0.8 0.004 0.02 2.02 24.9 0.6 0.6 0.7 189.75 75.4	<0.03 <0.03 <895 <7.2 <25 <11.1	7.2 26.4	23-Jul-13 <5 <0.03 <0.5 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50 <10 <0.5 10 <0.5 9.09 3.1 nm <0.5 <0.5 20.88 195 13.8 <0.1	7.2 26.3	0.23 864 7.1 27	08-Oct-13 5.2 0.04 <0.5 <0.5 <0.5 56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 874 1.2 62 11.9 <0.5 9.03 4.6 nm <0.5 1 0.012 7.1 <0.002 25.5 13 0.7 20.53 204.77	7.1 13.2	901 7.1 27.8
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Strontium Strontium Strontium Strontium Strontium Strontium Strontium Strontium Time sampled Tin (µg/I) T.O.C. T.O.N	mg/l CaCO3 ug/l 200 200 ug/l 0.23 mg/l.11 mg/l 100 ug/l 100 ug/l 1000 ug/l	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12 <0.03	<0.03 820 7.2 25.7	<0.03 807 7.2 26.1	24-Apr-12 245 285 20.03 20.5 40.5 45.7 40.5 56.2 20.1 109.81 41 40.5 20.5 40.7 40.5 40.7 20.5 40.7 20.5 40.7 20.5 40.7 20.5 40.7 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	779	0.09 873 7.3 26	24-Jul-12 <5 1.17 <0.5 <0.5 <4.7 <0.5 44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 1.17 <0.5 42 0.5 0.5 0.5 0.5 0.5 0.5 0.5 1.1 1.2 1.1 1.1 1.1 1.1 1.1 1	<0.03 <0.03 822 7.2 26 14.6	0.13 851 7.1 27	09-Oct-12 	0.04 0.04 0.04 0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <45.1 <0.5 <69.7 <0.1 130.33 42 1.6 <0.5 55 45.1 1.4 <1.6 <0.5 55 45.1 1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.	31-Jan-13 <5 <0.03 <0.5 <0.5 <0.5 56.6 <0.5 52.7 <0.1 128.73 54 0.6 <0.5	7.2 23.8	7.1 26.1	16-Apr-13 272 275 0.03 <0.5 54.5 <0.5 54.5 <0.5 56.4 <0.1 135.93 62 1.7 <0.5 14 883 0.8 <0.05 61 0 0 <0.150 <0.150 <0.05 0.05 0.002 2.002 22.02 24.9 0.6 nm 20.7 189.75 75.4 11.1 <0.1 13.45 nm	<0.03 <0.03 <895 <7.2 <25 <11.1	7.2 26.4	23-Jul-13 <5 <0.03 <0.5 <0.5 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50 <10 <0.5 9.09 3.1 nm <0.5 <0.5 20.5 20.5 10.6 <10 0.7 20.88 195 13.8 <0.1 10:30	7.2 26.3	0.23 864 7.1 27	08-Oct-13 5.2 0.04 <0.5 <0.5 <0.5 58.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 874 1.2 62 11.9	7.1 13.2	901 7.1 27.8
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Cadmium Calcium Co.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Lead Manganesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Soli Temp Thallium Time sampled Tin (µg/1) T.O.C. T.O.N Total S Solids Uranium	mg/l CaCO3 ug/l 200 200 ug/l 0.23 mg/l.11 mg/l 100 ug/l 100 ug/l 1000 ug/l	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	17-Jan-12 <0.03 47.1 121.68 41.1 121.68 41.4 41.5 60.5 60 60 60 60 60 7.2 60.002 7.2 60.002 7.2 60.002 7.2 60.002 7.37 7.2 7.2 7.2 7.3	<0.03 820 7.2 25.7	<0.03 807 7.2 26.1	24-Apr-12 24-Apr-12 25 25 20.03 20.5 20.5 20.5 20.5 20.1 109.81 41 20.5 20.5 40.6 7 20.5 46 7 20.5 46 7 20.5 8.25 2.9 20.05 20.5 20.5 20.5 20.5 20.5 20.5 20.	779	0.09 873 7.3 26	24-Jul-12 <5 1.177 <0.5 <0.5 <0.5 <44.7 <0.5 58 <0.1 122.63 42 0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.1 122.63 42 0.5 <0.5 <0.5 694 0.8 53 <10 <0.5 8.27 2.2 nm <0.5 <0.5 <10 <0.5 8.27 2.2 nm <10 <0.5 8.27 2.2 nm <10 <0.5 8.27 1.1 nm <10 <0.5 8.27 1.1 1.1 1.1 1.1 1.1 1.1 1.1	<0.03 <0.03 822 7.2 26 14.6	0.13 851 7.1 27	09-Oct-12 	0.04 0.04 0.04 0.04	REHOLE BH3/ 11-Dec-12 <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 45.1 <0.5 69.7 <0.1 130.33 42 1.6 <0.5 847 1.4 55 <10 <0.5 9.45 2.2 nm <0.5 <0.5 9.45 2.2 10 <0.5 9.45 2.2 10 10 10 10 10 10 10 10 10 10 10 10 10	31-Jan-13 <5 <0.03 <0.05 <0.05 <0.05 <0.05 56.6 <0.05 52.7 <0.1 128.73 54 0.6 <0.05 56.6 <0.05 1.1 56 17.4 <0.5 8.18 7.5 0.00 7.2 <0.05 <0.5 23 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	7.2 23.8	7.1 26.1	16-Apr-13 272 <5 0.03 <0.05 <0.5 <54.5 <0.5 56.4 <0.1 135.93 62 1.7 <0.5 14 883 0.8 80.05 61 0 <0.150 <0.150 <0.5 8.89 6.5 <0.05 0.8 0.004 0.02 7.2 24.9 0.6 0.6 0.7 189.75 75.4 11.1 <0.01 13:45 0.01	<0.03 <0.03 <895 <7.2 <25 <11.1	7.2 26.4	23-Jul-13 <5 <0.03 <0.5 <0.05 <0.5 54.3 <0.5 61.6 <0.1 139.73 56 2 <0.5 879 <0.5 50 <10 <0.5 40.5 50 <10 <0.5 20.8 879 <0.5 50 21 40.5 40.5 20.8 879 40.5 40.	7.2 26.3	0.23 864 7.1 27	08-Oct-13 5.2 0.04 <0.5 <0.5 <56.5 <0.5 59.4 <0.1 134.28 51 2 <0.5 874 1.2 62 11.9 <0.5 9.03 4.6 nm <0.5 1 0.012 7.1 <0.002 25.5 13 0.7 20.53 204.77	7.1 13.2	901 7.1 27.8

															BOREHOI													
ate Collected		DWR	IGV	2010 GW Regs	#######	#######	#######		#######	#######	#######	#######	#######	#######	#######	######	#######	#######	#######		#######	#######	#######	28-Aug-07	25-Sep-07	24-Oct-07	28-Nov-07	18-Dec-
Alkalinity	mg/l CaCO3							316												376								
Aluminium	ug/l	200	200	150 0.175	0.44	0.00	0.04	.0.02	0.42	0.04	0.00	0.00	-0.02	0.47	0.07	0.00	0.00	0.00	0.50	-0.00	.0.02	0.00	0.00	0.00	0.02	0.04	0.10	0.00
Ammonia Antimony	mg/l N ug/l	0.23 mg/i N	0.11 mg/l N	0.175	0.41	0.22	0.04	<0.03	0.13	0.04	0.08	0.06	<0.03	0.17	0.07	0.06	0.09	0.03	0.52	<0.03	<0.03	0.09	0.22	0.08	0.03	0.04	0.19	0.26
Arsenic	ug/l	3	10	7.5																								
Barium	ug/l		100	1.0	71	<50	<50	<50	<50	<50	<50	<50	8635.5	73.5	<50	<50	<50	<50	<1000	<50	<50	891.7	<50	57.1	<50	<50	nm	<50
Beryllium	ug/l																											
B.O.D.	mg/l O2																											
Boron	μg/l	1000	1000	750				<50												<50								
Cadmium	μg/l	5	5	3.75	2.7	0.9	<0.10	0.2	0.2	<0.10	0.4	0.5	500.1	2.1	1.1	0.4	<0.10	<0.10	6.3	0.5	0.9	0.4	0.3	1.0	0.4	0.5	0.3	1.3
Calcium C.O.D.	mg/l Ca		200			-		143.07												140.70								
Chloride	mg/I O2 mg/I CI	250	30	187.5	35	49	46	46	47	43	43	49	46	48	47	45	47	48	60	46	46	49	55	49	50	54	59	66
Chromium	μg/l	50	30	37.5	10.4	3.8	4.7	7.5	2.7	<1	<1	3.3	14.7	2.1	4.6	2.1	4.5	<1	27.6	<1	<1	<1	<1	3.5	<1	<1	<1	3
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	μS/cm @ 25	2500	1000	1875	850	849	845	862	851	859	851	837	748	902	847	853	864	878	885	893	880	878	876	878	878	810	922	892
Copper	μg/l	2000	30	1500				4.1												2.1								
Cyanide	mg/l	0.05	10		25		-	< 0.05			67				-		00			< 0.05			70			7.4		
D.O. E_ Coli	% Saturation No/100 ml	0			85		-	75 0	-	-	97	-		57	-		60		-	71		-	78			74		-
E_ Coll Fluoride	mg/l	0.8	1000			1	1	<0.150	1	-	-	-		1	1		1		-	<0.150		-	-		1			1
Iron	µg/l	200	200		499.8	335.2	221.5	466.6	313.9	339.4	253	298.3	38498	910.8	935.6	576.8	395.4	379.1	10233.5	514.2	571.0	233.4	594.6	2167.7	628.4	302.1	299.8	1557.3
Lead	μg/l	25	10	18.75	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.2	<1	<1	48.9	<1	<1	<1	<1	<1	<1	<1	<1	<1
Magnesium	mg/l Mg		50					12.14												11.77								
Manganese	μg/l	50	50		570.3	328.3	114.7	236.7	214.1	159.4	238.9	252.6	101679	939.6	621.3	718.9	130.1	178.4	3712.2	280.8	429.1	198.5	277.6	908.2	179.9	155.6	234.9	796.9
Mercury	μg/l	1	1	0.75				0.4												<0.10								
Molybdenum	μg/l		35																									
Nickel	μg/l	20	20	15	52.4	15.4	3.8	6.3	4.2	5.3	6.6	8.9	12682.6		24.5	8.5	3.5	3.4	109.7	15.3	17.4	4.7	8.1	22.9	7.5	5.5	6.4	27
Nitrite o-Phosphate	mg/I N mg/I P	0.5	0.1 30	0.375	>0.1	0.114	0.012	0.01	0.046		0.047	0.018	0.064	0.062	0.015	0.01	0.024	0.008	0.139	<0.003	0.007	nm	0.094	0.074	<0.003	0.030	0.045	0.096
nH	IIIg/I F	6.5 - 9.5	30		7.4	7.3	7.4	7.3	7.4	7.3	7.4	7.5	7.5	7	7.3	7.4	7.3	7.2	7.0	7.3	7.1	7.2	7.2	7.1	7.3	7.2	6.9	7.4
Phenol	mg/l	0.0 0.0	0.0005		0.02	0.021	0.172	<0.001	0.016	0.178	<0.001	0.02	<0.001	0.094	<0.001	<0.001	0.088	0.048	0.033	0.033	<0.01	nm	<0.01	1.190	<0.01	<0.01	<0.01	<0.01
Potassium	mg/l		5		1.15	1.1	1.2	1.22	1.37	0.99	1.26	1.01	5.69	1.25	1.28	1.01	1.03	1.04	<20	1.11	1.21	1.08	1.04	1.02	1.13	1.14	1.33	1.32
Sampling Depth	m				23.6	24.3	25.1	24.7	27.2	25.1	24.5	25.1	25.1	26.2	24.1	24	24.2	27.6	25.5	28.4	24.2	25.0	24.0	26.2	25.9	25.2	24.8	26.2
Selenium	μg/l	10																										
Silver	μg/l					10.00					.= ==	15.00			00.10					10.00		10.70	10.00	17.10	15.00	48.00		01.00
Sodium Strontium	mg/l	200	150	150	16.51	13.98	20.4	17.97	20.05	13.94	17.59	15.08	14.67	16.74	20.43	15.33	15.11	17.14	<20	18.62	20.84	16.76	16.33	17.13	15.32	17.30	20.57	21.72
Sulphate	μg/l mg/l SO4	250	200	187.5				47.6												53.8								
Suspended Solids	mg/l	230	200	107.5				47.0												33.0								
Temp	°C				9.4	8	7	12.4	13	13	17.1	14	13	13.5	9	8	9.9	11.0	9.0	15.5	16.0	16.0	19.1	14.0	10.0	12.3	13	10
Thallium	μg/l																											
Time sampled								12.05	12.1	12.15	12	12.1	12.2	12	12	12.05	11.55	12.05	12.10	12.10	12.10	11.45	11.45	12.05	12.10	12.00	11	12.45
Tin (μg/l)	μg/l																					Š.					-	
T.O.C.	mg/l	NAC			108.4			1.7			<10	10.07		<1.5			1.5		= 10	<1.5		N.	3.0	= 00		1.8		
T.O.N	mg/l N		NAC		6.31	6.21	6.09	6.16	5.81	6.1	6.27	10.04	6.05	6.26	5.83	5.59	5.80	5.73	5.49	5.85	5.78	25.51	5.73	5.63	6.01	5.85	6.12	5.81
Total S Solids Uranium	mg/l					1	-	-	-					-	-		-				- 0							
Vanadium	μg/l μg/l						-	-	-	-		-		-	-		 		-	14	to	-	-					-
Zinc	μg/l		100		99.2	19.9	3.8	9.6	6.1	5.6	11.3	13.7	19167	48.3	34.7	12	6.1	5.0	257.1	9:2	2.6	168.5	15.1	25.7	4.1	13.1	9.4	34.8
	11.5		1		1															25 × 50)* ·							
															BOR	EHOLE I	BH4A		. R	ited								
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######				#######	#######	M######	#######	#######	#######	18-Aug-09	29-Sep-09	20-Oct-09	17-Nov-09	08-Dec-0
Alkalinity	mg/l CaCO3							336											02.40	320								
Aluminium	ug/l	200	200	150		L		.	L					L				ii,	, S.									
Ammonia Antimony	mg/l N		0.11 mg/l N	0.175	0.03	0.07	0.04	0.04	0.11	0.05	0.11	0.11	0.03	0.04	0.17	0.07	<0.03	<0.03	₹0.03	0.04	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03
	ug/l ug/l	5	10	7.5	-	1	1	1	1	-	-	-		1	1			EX .C)			-	-					
			10	7.5	1	1	_		125.3	74.4	<50	<50	<50	<50	<50		<50.5	.≼\$0	51.5	581.9	239.1	93.4	<50	50.4	59.99	<50	<50	52.9
Arsenic			100		4EC	-E0																						
Arsenic Barium	ug/l		100		<50	<50	<50	<50	120.0	74.4	<00	<50	<50	<50	<30		30,	7/1/20	31.3	501.5	200.1	93.4	< 30	50.4	39.99	<30	\30	32.9
Arsenic Barium Beryllium	ug/l ug/l		100		<50	<50	<50	<50	120.3	74.4	<50	<500	<50	<50	<30		\$0,	Herm	31.3	501.5	209.1	93.4	<50	50.4	59.99	<30	\J0	52.9
Arsenic Barium Beryllium B.O.D.	ug/l ug/l mg/l O2	1000		750	<50	<50	<50		123.3	74.4	<50	<00	<50	<50	<50		, of	Hira	31.3		259.1	93.4	<50	50.4	39.99	30	\30	32.9
Arsenic Barium Beryllium	ug/l ug/l	1000	1000 1000 5	750 3.75	<50	<50		<50 <50 1.3	3.8	2.6	0.5	0.9	<0.10		0.5	0.6	, gp	<0.10	1.3	102.1	6.5	3.4	0.6	1.5	1.89	0.6	1.0	0.9

															BOR	EHOLE B	BH4A		R	itied								
Date Collected		DWR	IGV	2010 GW Reas	######	#######	#######	#######	#######	#######	#######	######	#######	#######	######	#######	#######	######	#######		#######	#######	#######	18-Aug-09	29-Sep-09	20-Oct-09	17-Nov-09	08-Dec-09
Alkalinity	mg/l CaCO3			•				336											V 16	320								
Aluminium	ug/l	200	200	150														100	200									
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	0.03	0.07	0.04	0.04	0.11	0.05	0.11	0.11	0.03	0.04	0.17	0.07	< 0.03	<0.03	₩0.03	0.04	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Antimony	ug/l	5																Q 0	~									
Arsenic	ug/l		10	7.5													1,4	10:00										
Barium	ug/l		100		<50	<50	<50	<50	125.3	74.4	<50	<50	<50	<50	<50		<50	.~\$00	51.5	581.9	239.1	93.4	<50	50.4	59.99	<50	<50	52.9
Beryllium	ug/l																₹ .	1										
B.O.D.	mg/l O2																7.0	ζ,										
Boron	μg/l	1000	1000	750				<50									ان پ			102.1								
Cadmium	μg/l	5	5	3.75	< 0.10	< 0.10	0.3	1.3	3.8	2.6	0.5	0.9	<0.10	<0.10	0.5	0.6	0 .9	< 0.10	1.3	0.1	6.5	3.4	0.6	1.5	1.89	0.6	1.0	0.9
Calcium	mg/l Ca		200					162.99								â				153.49								
C.O.D.	mg/l O2															256												
Chloride	mg/l Cl	250	30	187.5	48	46	47	47	47	49	56	59	53	49	58	52	45	48	45	49	65	49	50	56	43	48	46	45
Chromium	μg/l	50	30	37.5	<1	3.2	5.6	7.2	3.5	11.7	<50	5.8	<1	2.4	3.9	₩ 1	4.8	2.7	2.9	4	4.4	8.5	9.8	6.9	7.41	4.1	4.5	7.8
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	μS/cm @ 25	2500	1000	1875	892	882	879	864	877	876	876	863	896	890	902	905	896	900	896	922	889	891	884	862	893	976	873	888
Copper	μg/l	2000	30	1500				5.8												2.5								
Cyanide	mg/l	0.05	10					<0.05												<0.01								
D.O.	% Saturation	-			38			74			101			63			69			112			nm	101		59		
E_ Coli	No/100 ml	0	4000					0												0.450				1				
Fluoride	mg/l	0.8	1000		000.5	4000 5	1057.1	<0.150	00000	000.0	0.45	404.0	050.7	500	4070.0	40040	4000 5	200.4	4500.6	<0.150	0000 5	0400	460	640.4	4755 47		476.0	4600.6
Iron Lead	μg/l	200 25	200 10	18.75	229.5	1086.5	1657.1 3.2	727.9	2828.3	623.8	345	491.3	359.7	530	1373.8	1004.6	1063.5	299.4	1508.6	135.2	2692.5	2163 1.5	169	610.1	1765.17	297.7	476.8	1632.6
Magnesium	μg/l mg/l Mg	25	50	10./3	<1	<1	3.2	<1 13.31	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1 12.78	<1	1.5	<1	<1	1.79	<1	<1	<1
Manganese	µg/I	50	50		57.1	475.6	269.5	665.5	1432.1	599.5	179.2	290.1	152.8	220.8	566.8	467.1	525.9	95.1	816.4	28.1	2026.7	1114.7	198.9	550.5	1016.18	347.2	391.8	770.8
Mercury	μg/I	1	1	0.75	37.1	475.0	209.5	<0.10	1432.1	399.3	179.2	290.1	132.0	220.0	300.6	407.1	525.9	95.1	810.4	<0.1	2020.7	1114.7	196.9	550.5	1010.18	347.2	391.6	770.8
Molybdenum	μg/l	- ' -	35	0.73				V0.10												<0.1								
Nickel	μg/l	20	20	15	<1	9.6	11.9	21.3	80.1	39.9	9.1	15.8	3.3	4.1	12.1	12	15.4	1.9	30.2	1.1	139.9	68.5	9.3	33.8	33.32	11.8	20.7	16.9
Nitrite	mg/l N	0.5	0.1	0.375	0.016	0.02	0.011	0.013	0.047	0.042	0.039	0.221	0.036	0.008	0.016	0.009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
o-Phosphate	mg/l P		30		0.0.0			0.02			0.000					0.000	<0.02			<0.02								
H		6.5 - 9.5			7.1	7.2	7.2	7.2	7.3	7.3	7.3	7.5	7.1	7.2	7.2	7.1	7.2	7.3	7.1	7.3	7.1	7.5	6.8	7.4	7.3	6.8	7.1	7.2
Phenol	mg/l		0.0005		0.03	0.02	< 0.01	< 0.01	<0.01	<0.01	nm	0.03	< 0.01	0.03	< 0.01		< 0.01	< 0.01	< 0.016	< 0.002	< 0.002	< 0.002	nm	<0.002	< 0.015	< 0.015	<0.0005	<0.015
Potassium	mg/l		5		1.27	1.17	1.5	1.21	1.01	1.09	1.08	1.21	1.14	1.13	1.35	1.25	1.26	1.08	1.24	1.33	1.34	1.47	1.16	1.11	1.14	1.26	1.25	1.18
Sampling Depth	m				24.5	25.2	24.8	23.9	24	23	23.9	25.9	26.1	nm	20.4	20.9	20.9	24.1	22.8	24.4	24.2	25.1	23	23.8	23.9	22.4	24.4	nm
Selenium	μg/l	10																										
Silver	μg/l																											
Sodium	mg/l	200	150	150	20.84	19.73	22.65	19.28	16.8	18.32	18.07	17.38	18.29	18.59	20.19	22.33	20.89	19.12	19.45	23.91	19.62	16.26	17.48	18.67	17.68	19.53	19.59	16.37
Strontium	μg/l																											
Sulphate	mg/I SO4	250	200	187.5				47.4												52.9								
Suspended Solids	mg/l																											
Temp	°C				9.4	10	12	12	nm	15.6	15.4	14	12	8.9	11	10	6.8	12	11	14	12.8	13	16	13.7	11	10.0	10.3	10.2
Thallium	μg/l																											
Time sampled	_				nt	12.1	12.1	12.15	11.55	11.15	12	12.05	12.1	11.45	12.05	11.4	12.05	13.55	12.05	12	11.55	12.1	11.5	12	11.55	11.40	10.20	12.00
Tin (µg/l)	μg/l																											
T.O.C.	mg/l	NAC	NAC		1.5	F 57	F 40	2.1	F 00	F FC	1.6	4.04	F 47	<1.5	F 20	4.00	2.3	4.00	2.07	7.6	F 4	4.0	3.1	F.0C	4.70	4.8	4.00	2.20
T.O.N	mg/l N		NAC		5.63	5.57	5.18	5.62	5.66	5.56	5.76	4.94	5.47	5.47	5.39	4.99	5.18	4.06	3.97	3.91	5.1	4.8	4.76	5.06	4.79	4.09	4.86	3.29
Total S Solids Uranium	mg/l				-	 	-			-	-			-	-	1	-	-	-	-	-	1			-			
Vanadium	μg/l				-	 	-			-	-			-	-	1	-	-	-	-	-	1						
	µg/l ua/l	+	100		2.5	11.3	14.8	31.5	100.5	79.6	13.7	24.5	5.1	6.5	15.8	15.6	24.2	7.2	35.7	135.6	242.9	103.7	16.2	49.6	153.3	17.8	31.0	74.0
Zinc	µу/і		100		2.0	11.3	14.0	31.0	100.5	79.0	13.1	24.0	J. I	0.0	15.6	10.0	24.2	1.2	35./	133.0	242.9	103.7	16.2	49.6	153.3	1/.8	31.0	/4.0

Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######	######	#######	#######	######	#######	######	#######		EHOLE B		#######	######	######	#######	###### ####	### 09-Aug-1	1 06-Sen-11	04-Oct-11	08-Nov-11	13-Dec-11
Alkalinity	mg/l CaCO3		200					372												364			co rag .		0.00		
Aluminium Ammonia	ug/l mg/l N	200 0.23 mg/l N		150 0.175	<0.03	2.45	<0.03	<0.03	<0.03	0.82	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03						
Antimony Arsenic	ug/l ug/l	5	10	7.5																							
Barium Beryllium	ug/l		100		21.3	20.1	39.3	42.5	67.3	34.7	18.9	4662.3	20.9	127.8	233.5	18.5	18.1	34.3	14.9	35.6	48.9						
B.O.D.	ug/l mg/l O2																										
Boron Cadmium	μg/l μg/l	1000 5	1000 5	750 3.75	0.2	0.1	0.8	39 1.1	2.4	0.8	0.4	185.5	0.6	3.6	2.7	<1	0.1	<1	<0.1	34.5 0.6	1.4						
Calcium C.O.D.	mg/I Ca mg/I O2		200					153.91												177.64							
Chloride	mg/l Cl	250	30	187.5	45	51	49	56	50	49	46	48	53	51	41	54	42	33	43	46	45						
Chromium Cobalt	μg/l μg/l	50	30	37.5	<1	3.4	<1	<1	1.8	4.8	<0.5	2.2	<0.5	1.3	27.9	<5	<0.5	<5	2.4	<0.5	0.6						
Coliform Bacteria Conductivity	(No/100 ml) uS/cm @ 25	0 2500	1000	1875	890	841	903	896	895	685	930	845		897	886	870	914	805	913	712	1090						
Copper	μg/l	2000	30	1500	030	011	303	4.7	033	003	330	0.15		037	000	0,0	311	003	313	2.4	1030						
Cyanide D.O.	mg/l % Saturation	0.05	10		81			<0.05 79			84			81				55		<0.05 79							
E_ Coli Fluoride	No/100 ml mg/l	0.8	1000					0 <0.150												nm <0.150							
Iron	μg/l	200	200	40.75	312.8	31.9	947.4	403.8	1262.7	530.3	128.1	19614.2	268.2	1619.4	29519.5	809.9	135.7	1048.3	431.1	379	530.9						
Lead Magnesium	μg/l mg/l Mg	25	10 50	18.75	<1	<1	<1	<1 12.12	<1	1.1	<0.5	1.8	<0.5	0.5	20.1	<5	0.7	<5	0.5	1.3 15.77	0.7						
Manganese Mercury	μg/l μg/l	50 1	50 1	0.75	190.3	89	452.7	355.1 <0.1	978.1	495.3	153.9	43975.2	218.1	1366.6	4932.1	343.0	161.8	253.6	93.6	505.9 <0.05	657.7						
Molybdenum	μg/l		35				40.0					4000.0		04.6	404.5	-			4.0								
Nickel Nitrite	μg/l mg/l N	20 0.5	20 0.1	15 0.375	4.2 <0.002	6.3 0.003	13.9 <0.002	18.2 <0.002	47.5 0.005	27.7 <0.002	4.1 <0.002	4892.0 0.003	11.1 <0.002	81.6 <0.002	121.5 nm	<5 <0.002	0.9 <0.002	<5 <0.002	1.0 <0.002	6.9 <0.002	20 <0.002						
o-Phosphate pH	mg/l P	6.5 - 9.5	30		7.1	7.1	7.2	<0.02 7.1	7.1	7.2	7.1	7.2		7.2	7.3	7.3	7.1	7.4	7.6	<0.02 7.2	7.6						
Phenol Potassium	mg/l mg/l		0.0005 5		<0.015	<0.015 4.78	<0.015	<0.015	<0.2 1.71	<0.1	<0.025	<0.015 3.56	<0.015 1.10	<0.025 1.45	<0.015 5.13	<0.025 <2.5	<0.01	<0.025 <2.5	<0.025	<0.008	<0.013 1.15						
Sampling Depth	m		J		26.5	14.5	26.2	1.15 nm	22.6	22.6	23.7	20.9	21.5	1.45 nm	25.1	24.0	18.4	18.0	25.0	18.7	17.8						
Selenium Silver	μg/l μg/l	10																									
Sodium	mg/l	200	150	150	16.47	25.63	19.67	19.12	16.16	21.61	16.25	17.31	18.43	21.91	21.02	18.50	21.34	16.15	18.83	21.37	19.9						
Strontium Sulphate	μg/l mg/l SO4	250	200	187.5				55.8												54.4							
Suspended Solids Temp	mg/l °C				6.8	9.5	10	16.1	11	12	19.0	12.3	16.3	11.6	9.7	9.5	11.0	8.8	11.3	13	14						
Thallium Time sampled	μg/l				11.45	12	11.55	12.15	11.5	11.55	11.20	11.55	12.35	nt	15:50	11:30	11:45	12.05	12:00	11:55	12:00	۰،۷۶۰					
Tin (μg/l)	μg/l					12	11.55		11.5	11.33		11.55	12.33		15.50	11.30	11.43		12.00		12.00	(USU					
T.O.C. T.O.N	mg/l mg/l N	NAC	NAC		4.2 2.84	3.86	3.32	<1.5 4.01	4.52	5.91	3.8 4.78	4.61	4.55	91.1 4.25	4.53	4.42	4.70	6.1 3.28	4.35	83.9 1.32	4.45	er e					
Total S Solids Uranium	mg/l μg/l																			14	· M						
Vanadium	μg/l																			OD.	Y. 27						
Zinc	μg/l								70.0	07.5		0407.5		4000	0400	25.5				C							
			100		10.1	6.9	23.7	36.2	70.9	27.5	9.6	8197.5	15.4	129.3	249.9	25.5	2.7	30.1	3.2	2514 XX	32.4						
			100												BOR	EHOLE B	H4A		DUTTO	lifed							
Date Collected		DWR	IGV	2010 GW Regs				######							BOR	EHOLE B	H4A		DUTTO	#######		####### #####	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium	mg/l CaCO3	200	IGV 200	150		######		###### 320 <5						###### <5	BOR ###### <5	EHOLE B ###### <5	H4A #######	###### 8436	Who have	####### 376 <5	######	********	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony	mg/l CaCO3		IGV 200 0.11 mg/l N	150 0.175				###### 320 <5 <0.03 <0.5						<pre>####### <5 <0.03 <0.5</pre>	BOR ###### <5 <0.03 <0.5	EHOLE B ####### <5 <0.03 <0.5	H4A ###### 11.3 <0.03 <0.5	###### 843.6 20.03 (Who have	####### 376 <5 <0.03 <0.5	**************************************	########	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia	mg/l CaCO3 ug/l mg/l N ug/l ug/l	200 0.23 mg/l N	IGV 200	150		######		####### 320 <5 <0.03						****** <5 <0.03	BOR ###### <5 <0.03	EHOLE B ####### <5 <0.03	11.3 <0.03 <0.5 <0.5	###### 843.6 20.03 (Who have	376 <5 <0.03	************* <5 <0.03	####### #####	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l	200 0.23 mg/l N	IGV 200 0.11 mg/l N	150 0.175		0.03		###### 320 <5 <0.03 <0.5 <0.5						<pre>####### <5 <0.03 <0.5 0.53</pre>	BOR ###### <5 <0.03 <0.5 <0.5	EHOLE B ####### <5 <0.03 <0.5 0.54	11.3 <0.03 <0.5 <0.5	843.6 30.03 CV <0.05	Who have	###### 376 <5 <0.03 <0.5 <0.5	**************************************	*********	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron	mg/i CaCO3 ug/i mg/i N ug/i ug/i ug/i ug/i ug/i mg/i O2 µg/i	200 0.23 mg/l N 5	IGV 200 0.11 mg/l N 10 100	150 0.175 7.5		0.03		####### 320 <5 <0.03 <0.5 <0.5 9.5 <0.5						<pre>####### <5 <0.03 <0.5 0.53 11.4 <0.5 41.3</pre>	SOR ************************************	<pre>EHOLE B ####### <5 <0.03 <0.5 0.54 12.3 <0.5 35</pre>	H4A ####### 11.3 <0.03 <0.5 <0.5 128 <0.5 <0.5	843.6 -0.03 -0.5 -26.6 -0.5 -31.7	Who have	376 <5 <0.03 <0.5 <0.5 10 <0.5	<pre>####### <5 <0.03 <0.5 <0.5 9.5 <0.5 29.5</pre>	********	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5	IGV 200 0.11 mg/l N 10 100	150 0.175 7.5		0.03		####### 320 <5 <0.03 <0.5 <0.5 9.5 <0.5						<5 <0.03 <0.5 0.53 11.4 <0.5	**************************************	EHOLE B ###### <5 <0.03 <0.5 0.54 12.3 <0.5	11.3 <0.03 <0.5 <0.5 12.8 <0.5 31.7 <0.1	843.6 0.03 0 0.03 0 0.03 0 0.03 0 0.03 0 0.03 0 0.03 0 0.03 0	Who have	376 <5 <0.03 <0.5 <0.5 10 <0.5	<pre>####### <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 </pre>	********	07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5	1GV 200 0.11 mg/l N 10 100 1000 5	150 0.175 7.5 750 3.75		0.03 11.5 36.3 <0.1		####### 320 <5 <0.03 <0.5 <0.5 9.5 <0.5 30 <0.1						<5 <0.03 <0.5 0.53 11.4 <0.5 41.3 <0.1	<pre></pre>	<pre>EHOLE B ####### <5 <0.03 <0.5 0.54 12.3 <0.5 35 <0.1</pre>	11.3 <0.03 <0.5 <0.5 12.8 <0.5 31.7 <0.1	843.6 0.03 26.6 <0.5 31.7 0.2	white to the second	**************************************	####### <5 <0.03 <0.5 <0.5 9.5 <0.5 29.5 <0.1	***************************************	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5	1GV 200 0.11 mg/l N 10 100 1000 5 200	150 0.175 7.5		0.03 11.5 36.3 <0.1 154.27		####### 320 <5 <0.03 <0.5 <0.5 <0.5 9.5 <0.5 40.5 40.7 47 <0.5						<pre>####################################</pre>	**************************************	EHOLE B ######## <5 <0.03 <0.5 12.3 <0.5 143.56 40 <0.5 <0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	11.3 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 31.7 <0.1 156.38 43 <0.5	843.6 40.03 26.6 <0.5 31.7 0.2 157.46 42 2.3	Who have	376 <5 <0.03 <0.5 10 <0.5 27.3 <0.1 149.85	<pre>************************************</pre>	***************************************	07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 mg/l Ca mg/l O2 mg/l Ca mg/l O2 mg/l Ca mg/l O2 mg/l Cl ug/l	200 0.23 mg/l N 5 1000 5 250 50	1GV 200 0.11 mg/l N 10 100 5 200 30 30	150 0.175 7.5 7.5 750 3.75 187.5 37.5		####### 0.03 11.5 36.3 <0.1 154.27 44 <0.5		####### 320 <5 <0.03 <0.5 <0.5 <0.5 <0.5 40.5 40.5 40.1 137.47 47 <0.5 <0.5 49						<pre></pre> <pre><5 <0.03 <0.5 0.53 11.4 <0.5 41.3 <0.1 151.13 41 1 <0.5</pre>	SOR ************************************	######################################	H4A ####### 11.3 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	####### 843.6 \$0.03 26.6 \$0.5 31.7 0.2 157.46 42 2.3 1.3	**************************************	376 <5 <0.03 <0.5 <0.5 10 <0.5 127.3 <0.1 149.85 42 1.2 <0.5 40	**************************************	#######################################	07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l g/l mg/l O2 ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250	IGV 200 0.11 mg/l N 10 100 5 200 30	150 0.175 7.5 7.5 750 3.75		0.03 11.5 36.3 <0.1 154.27		####### 320 <5 <0.03 <0.05 <0.5 9.5 <0.5 30 <0.1 137.47 47 <0.5 <0.5						<pre>####################################</pre>	**************************************	EHOLE B ######## <5 <0.03 <0.5 12.3 <0.5 143.56 40 <0.5 <0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	11.3 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 31.7 <0.1 156.38 43 <0.5	843.6 40.03 26.6 <0.5 31.7 0.2 157.46 42 2.3	white to the second	376 <5 <0.03 <0.5 <0.5 <0.5 10 <0.5 27.3 <0.1 149.85 42 1.2 <0.5	<pre>************************************</pre>	#######################################	07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 0 2500	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5		36.3 <0.1 154.27 44 <0.5		####### 320 <5 <0.03 <0.05 9.5 <0.5 9.5 <0.5 40.1 137.47 47 <0.5 <0.5 49 814 0.8 40.05						<pre>************** <5 <0.03 <0.5 0.53 11.4 <0.5 41.3 <0.1 151.13 41 1 <0.5 955 <0.5</pre>	**************************************	####### <5 <0.03 <0.5 0.54 12.3 <0.5 35 <0.1 143.56 40 <0.5 <0.5 933	######################################	####### 843.6 40.03 26.6 <0.5 31.7 0.2 157.46 42 2.3 1.3	**************************************	**************************************	************* <5 <0.03 <0.5 <0.5 9.5 <0.5 40.5 40.5 41.1 <0.5 921	#######################################	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l mg/l O2 µg/l mg/l Ca mg/l Ca mg/l Cl µg/l mg/l C2 mg/l C2 mg/l C2 mg/l C3 mg/l C3 mg/l C4 mg/l C4 mg/l C5 mg/l C5 mg/l C6 mg/l C7 mg/l C9 % Saturation	200 0.23 mg/l N 5 1000 5 250 0 2500 2000 0.05	1000 200 0.11 mg/l N 10 100 5 200 30 30 1000 1000	150 0.175 7.5 7.5 750 3.75 187.5 37.5		36.3 <0.1 154.27 44 <0.5		####### 320 <5 <0.03 <0.5 <0.05 9.5 <0.5 9.5 <0.1 137.47 47 <0.5 <0.5 49 814 0.8 <0.05 83 6						**************************************	**************************************	####### <5 <0.03 <0.5 0.54 12.3 <0.5 35 <0.1 143.56 40 <0.5 <0.5 933	11.3 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	####### 843.6 40.03 26.6 <0.5 31.7 0.2 157.46 42 2.3 1.3	**************************************	####### 376 <5 <0.03 <0.5 <0.5 10 <0.5 27.3 <0.1 149.85 42 1.2 <0.5 40 911 2.3 <0.05 83 0.05	************* <5 <0.03 <0.5 <0.5 9.5 <0.5 40.5 40.5 41.1 <0.5 921	#######################################	07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O.	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 pg/l pg/l mg/l C2 mg/l C2 mg/l C1 pg/l l pg/l l pg/l pg/l mg/l C2 mg/l C2 mg/l C3 mg/l C4 mg/l C4 mg/l C5 mg/l C5 mg/l C5 mg/l mg/l S/cm @ 25 pg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l m	200 0.23 mg/l N 5 1000 5 250 0 2500 2000 0.05	1000 200 0.11 mg/l N 10 100 5 200 30 30 1000 1000 200	150 0.175 7.5 7.5 3.75 187.5 37.5		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5		######################################						<pre>######## <5 <0.03 <0.5 0.53 11.4 <0.5 <0.1 151.13 41 1 <0.5 <0.5 67</pre>	SOR ####### <5 <0.03 <0.5 <0.5 11.5 <0.5 35 <0.1 146.23 40 0.8 <0.5 <0.5 <0.1 <0.5 <0.5 <0.1 <0.5 <0.5 <0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	####### <5 <0.03 <0.5 0.54 12.3 <0.5 35 <0.1 143.56 40 <0.5 <0.5 933	11.3 <0.03 <0.5 12.8 <0.5 <0.5 12.8 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	843.6 9.03 26.6 <0.5 1.3 1.7 0.2 157.46 42 2.3 1.3 904 3.1	**************************************	######################################	************* <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	#######################################	07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 0 2500 2000 0.05 0 0.8	1000 30 1000 1000 200 10 10 10 10 10 10 10 10 10 10 10 10 1	150 0.175 7.5 7.5 750 3.75 187.5 37.5		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5		######################################						**************************************	**************************************	ehole B ####### <5 <0.03 <0.5 <0.5 4 12.3 <0.5 <0.1 d0 143.56 <0.1 <0.5 <0.5 <0.1 d0 143.56 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	11.3 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	843.6 30.03 31.6 42.6 42.5 31.7 0.2 157.46 42 2.3 1.3 904 3.1	**************************************	######################################	******************* <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	#######################################	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnessium Manganese	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l Ca m	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25	1000 200 0.11 mg/l N 10 100 5 200 30 30 10 1000 200 10 5 5	150 0.175 7.5 7.5 750 3.75 187.5 37.5		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5		######################################						************* <5 <0.03 <0.5 0.53 11.4 <0.5 41.3 <0.1 151.13 41 1 5 <0.5 67 <10 <0.5 15.05 15.05 1.9	####### <5 <0.03 <0.05 <0.05 11.5 <0.05 <0.1 146.23 40 0.8 <0.05 <10.5 <10.5 41.1	EHOLE B ####### <5 <0.03 <0.5 <0.54 12.3 <0.5 <0.1 143.56 40 <0.5 <0.5 <0.1 143.56 143.56 143.76 143.56	11.3 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.1 156.38 43 <0.5 <0.5 <0.5 <0.5 <0.1 156.38 43 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	####### 843,6 9,03 26.6 <0.5 1.3 1.7 0.2 157.46 42 2.3 1.3 904 3.1 1451.2 1 13.24 202.4	**************************************	####### 376 <5 <0.03 <0.5 10 <0.5 10 <0.5 127.3 <0.1 149.85 42 1.2 <0.5 40 911 2.3 <0.05 83 0 <0.15 40 40 5 40 40 5 40 5 40 40 5 40 5 40 40 40 40 40 40 40 40 40 40	************ <5 <0.03 <0.5 <0.5 9.5 <0.6 9.5 <0.1 150.84 42 1.1 <0.5 921 0.8 <10 <0.5 12.89	#######################################	07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_ Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 mg/l C2 mg/l C2 mg/l C2 mg/l C3 mg/l C4 mg/l C9 mg/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l u	200 0.23 mg/l N 5 1000 5 250 0 2500 2000 0.05 0 0.8 200 25 50 1	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 <10 <0.5 14.99 1.7		######################################						************* <5 <0.03 <0.5 0.53 11.4 <0.5 <0.5 41.3 <0.1 151.13 41 1 40.5 <0.5 <0.5 <0.5 1.9 nm co.5 1.9 co.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	**************************************	ehole B ####### <5 <0.03 <0.5 <0.54 12.3 <0.5 <0.1 <0.5 <0.1 <0.5 <0.1 <0.5 <0.1 <0.5 <0.1 <0.5 <0.1 <0.5 <0.1 <0.5 <0.5 <0.1 <0.5 <0.5 <0.5 <0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	11.3 <0.03 <0.5 12.8 <0.5 <0.5 <0.5 <0.5 <0.5 <0.1 156.38 43 <0.5 <0.5 <0.5 <1.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	843.6 9.03 26.6 <0.5 1.3 1.7 0.2 157.46 42 2.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	**************************************	######################################	*###### <5 <0.03 <0.5 <0.5 9.5 <0.5 <0.1 150.84 42 1.1 <0.5 921 0.8	#######################################	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. EColi Fluoride Iron Lead Magnesium Manganese Mercury	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25	1000 1000 200 10 50 50 50 1	150 0.175 7.5 7.5 750 3.75 187.5 37.5		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 <10 <0.5 14.99		######################################						************* <5 <0.03 <0.5 <0.53 <11.4 <0.5 <0.53 <11.13 <0.1 <151.13 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	**************************************	ehole B ####### <5 <0.03 <0.5 <0.05 <0.54 12.3 <0.5 <0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	11.3 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	843.6 30.03 31.7 0.2 157.46 42 2.3 1.3 904 3.1 1451.2 1 13.24 202.4 nm <0.5	42 901	######################################	************* <5 <0.03 <0.5 <0.5 9.5 <0.5 9.5 <0.1 150.84 42 1.1 <0.5 921 0.8 <10 <0.5 12.89 2.4 nm <0.5 1.1	#######################################	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molydenum Nickel Nitrite O-Phosphate	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 mg/l C2 mg/l C2 mg/l C2 mg/l C3 mg/l C4 mg/l C9 mg/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l u	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1 1 20 0.5	1000 5 200 1000 30 10 1000 200 10 10 50 50 50 50 20 20 50 50 50 50 50 50 50 50 50 50 50 50 50	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 10 <0.5 14.99 1.7 <0.5 <0.002		######################################						************* <5 <0.03 <0.5 0.53 11.4 <0.5 <0.5 41.3 <0.1 151.13 41 1 40.5 <0.5 <0.5 67 <10 <0.5 15.05 1.9 nm <0.5 <0.002 <0.002	**SOR**********************************	Color Colo	######################################	843.6 30.03 31.7 0.2 157.46 42 2.3 1.3 904 3.1 1451.2 1 13.24 202.4 nm <0.5	901 42 <0.002	######################################	************* <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.1 150.84 <0.5 <0.5 <0.5 <0.1 150.84 <0.5 <0.5 <0.1 150.84 <0.5 <0.5 <0.1 <0.5 <0.1 <0.5 <0.1 <0.5 <0.5 <0.1 <0.5 <0.5 <0.1 <0.5 <0.5 <0.5 <0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	#######################################	### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_ Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 ug/l mg/l O2 mg/l C1 µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l	200 0.23 mg/l N 5 1000 5 250 0 2500 0.05 0 0.8 200 255 50 1	1000 200 10 1000 200 10 10 10 10 10 10 10 10 10 10 10 10 1	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 <10 <0.5 14.99 1.7 <0.5 <0.002		######################################						************* <5 <0.03 <0.5 0.53 11.4 <0.5 0.53 11.1.4 <0.5 0.53 0.53 11.1.4 <0.5 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.54 0.55 0.55 0.55 0.55 0.55 0.57 0	**************************************	Section	######################################	843.6 30.03 31.7 0.2 157.46 42 2.3 1.3 904 3.1 1451.2 1 3.24 202.4 nm <0.5 3.7 <0.002	42 901 <0.002	######################################	************ <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Niickel Nitrite o-Phosphate pH Phenol Potassium	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1 1 20 0.5	1000 1000 200 110 100 50 50 50 50 11 30 30 30 30 30 30 30 30 30 30 30 30 30	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 <10 <0.5 14.99 1.7 <0.5 <0.002		######################################						************* <5 <0.03 <0.5 <0.53 11.4 <0.5 <0.5 41.3 <0.1 151.13 41 1 <0.5 <0.6 67 <10 <0.5 <0.5 15.05 15.05 1.9 nm <0.5 <0.002 7.1	**************************************	Color	11.3 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	843.6 \$0.03 \$1.6 \$0.5 31.7 0.2 157.46 42 2.3 1.3 904 3.1 1451.2 13.24 202.4 nm \$0.5 7	42 901 <0.002	######################################	************* <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1 1 20 0.5	1000 200 10 1000 200 10 10 10 10 10 10 10 10 10 10 10 10 1	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 0.5 <10 <0.5 14.99 1.7 <0.5 <0.002 7.2 <0.002 1.42		######################################						************** <5 <0.03 <0.5 0.53 11.4 <0.5 41.3 <0.1 151.13 41 1 <0.5 67 <10 <0.5 67 <10 <0.5 15.05 15.05 1.9 nm <0.5 <0.5 <0.5 <0.5 <0.5 1.9 1.9	**************************************	######################################	######################################	843.6 40.03 26.6 <0.5 157.46 42 2.3 1.3 1.3 1451.2 1 113.24 202.4 nm <0.5 3.7 <0.002 1.31 17 <0.5	42 901 <0.002 7.1 <0.002	######################################	************ <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 ug/l mg/l O2 mg/l C1 mg/l O2 mg/l C2 mg/l C3 mg/l C4 mg/l C9 mg/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l u	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1 1 20 0.5 6.5 - 9.5	1000 200 10 1000 200 10 10 10 10 10 10 10 10 10 10 10 10 1	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 0.5 <10 <0.5 14.99 1.7 <0.5 <0.002 7.2 <0.002 1.42		######################################						************* <5 <0.03 <0.5 <0.53 <11.4 <0.5 <0.53 <11.14 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	**************************************	SEHOLE B ####### <5 <0.03 <0.5 <0.54 12.3 <0.5 <0.54 12.3 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	######################################	843.6 843.6 9.03 26.6 26.6 27 1451.2 13.24 202.4 13.7 20.5 3.7 20.002 1.31 17 20.5 nm	42 901 <0.002 7.1 <0.002	######################################	************ <5 <0.03 <0.5 <0.5 <9.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 0 2500 2500 0.05 0 0.8 200 255 50 1 20 0.5 6.5 - 9.5	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 11.7 <0.05 14.99 1.7 <0.002 7.2 <0.002 1.42 23.9		######################################						************* <5 <0.03 <0.5 <0.53 11.4 <0.5 41.3 <0.1 151.13 41 1 <0.5 955 <0.67 67 67 67 67 60.5 1.9 1.9 1.9 1.9 1.9 1.9 1.0 1.9 1.9 1.0 1.9 1.9 1.9 1.0 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	**************************************	######################################	11.3 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	843.6 843.6 9.03 26.6 26.6 27 1451.2 13.24 202.4 13.7 20.5 3.7 20.002 1.31 17 20.5 nm	42 901 <0.002 7.1 <0.002	######################################	************** <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_ Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Silver Sodium Strontium Sulphate Suspended Solids	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1 1 20 0.5 6.5 - 9.5	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 <10 <0.5 14.99 1.7 <0.5 <0.002 1.42 23.9 20.43		######################################						************** <5 <0.03 <0.5 0.53 11.4 11.4 151.13 41 1 <0.5 955 <0.5 67 <10 <0.5 15.05 19 nm <0.5 <0.5 <0.02 7.1 <0.002 1.61 23.9 0.6 nm 23.86 256.23	**************************************	######################################	H4A ####### 11.3 <0.05 <0.5 <0.5 12.8 <0.5 <0.5 12.8 43 <0.5 <0.5 <0.5 15.8 43 <0.5 <0.5 16.9 174.1 <0.5 13.05 <1 nm <0.5 <0.002 1.31 16.9 <0.5 nm 18.46 258.6	######################################	42 901 <0.002 7.1 <0.002	######################################	************* <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Strontium Stupphate Suspended Solids Temp Thallium	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1 1 20 0.5 6.5 - 9.5	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 <10 <0.5 14.99 1.7 <0.02 1.42 23.9 20.43		######################################						*************** <5 <0.03 <0.5 0.53 11.4 <0.5 0.53 11.13 41.3 <0.1 151.13 41 1	SOR ######	Color Color	H4A ####### 11.3 <0.03 <0.5 <0.5 12.8 <0.5 12.8 <0.5 12.8 43 <0.5 <0.5 14.1 156.38 43 <0.5 <0.5 16.9 10.9	843.6 843.6	42 901 <0.002 7.1 <0.002 7.1 7.1	######################################	************ <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silverium Silverium Sulphate Suspended Solids Temp	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1 1 20 0.5 6.5 - 9.5	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 <10 <0.5 14.99 1.7 <0.5 <0.002 1.42 23.9 20.43		######################################						************* <5 <0.03 <0.5 0.53 11.4 <0.5 41.3 <0.1 151.13 41 1 <0.5 67 <10 <0.5 67 <10 <0.5 15.05 1.9 0.6 <10 0.6 <0.5 15.05 1.9 0.6 0.7 <10 0.7 10 0.8 0.9 0	**************************************	######################################	######################################	843.6 843.6	42 901 <0.002 7.1 <0.002	######################################	************* <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Strontium Sulphate Suspended Solids Temp Thallium Time sampled Tin (µg/1) T.O.C.	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1 1 20 0.5 6.5 - 9.5	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 <10 <0.5 14.99 1.7 <0.5 <0.002 7.2 <0.002 1.42 23.9 20.43		######################################						*************** <5 <0.03 <0.5 <0.53 <0.5 <0.53 <0.1 <0.5 <0.5 <0.53 <0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	**************************************	######################################	H4A ####### 11.3 <0.05 <0.5 <0.5 12.8 <0.5 <0.5 12.8 43 <0.5 <0.5 <0.5 11.5 43 <0.5 <0.5 11.6 43 <0.5 <0.5 11.6 43 <0.5 <0.5 11.6 1	######################################	 <0.03 <0.03 <0.002 <0.002 <0.002 18 <0.002 <0.002 	######################################	************* <5 <0.03 <0.5 <0.5 <0.5 <9.5 <0.1 150.84 42 1.1 <0.5 921 0.8 <10 <0.5 12.89 2.4 nm <0.5 11.89 2.4 nm <0.5 11.1 <0.002 1.39 22 <1.39 22 24 248.87		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Time sampled Tim (µg/1) T.O.C. T.O.N. Total S Solids	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 255 50 1 1 20 0.5 6.5 - 9.5	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 <10 <0.5 14.99 1.7 <0.02 1.42 23.9 20.43		######################################						*************** <5 <0.03 <0.5 0.53 11.4 <0.5 41.3 <0.1 151.13 41 1 <0.5 955 <0.5 67 <10 <0.5 1.9 nm <0.5 <0.5 1.9 nm <0.5 <0.5 1.9 nm <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	SOR ####### <5 <0.03 <0.5 <0.5 11.5 <0.5 11.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	SEMOLE B ####### <5 <0.03 <0.5 <0.54 12.3 <0.5 <0.54 12.3 <0.5 <0.54 14.3 56 <0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	H4A ####### 11.3 <0.03 <0.5 <0.5 12,8 <0.5 12,8 <0.5 156.38 43 <0.5 <0.5 11.05 <0.1 156.38 43 <0.5 <0.5 11.05 <0.1 156.38 43 <0.5 <0.5 11.05 <0.05 11.05 <0.002 1.31 1.55 nm 18.46 258.6 9.3 <0.1 11.55 nm 94.5 3.15	843.6 842.3 843.6 842.3 843.6 842.3 842.3 843.6 842.3 842.3 842.3 843.6 842.3 843.6 842.3 843.6 842.3 843.6 842.3 843.6	42 901 <0.002 7.1 <0.002 7.1 7.1	######################################	************ <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnessium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Solids Temp Thallium Time sampled Tim (µg/1) Time Sampled Time Samp	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 255 50 1 1 20 0.5 6.5 - 9.5	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 <10 <0.5 14.99 1.7 <0.5 <0.002 7.2 <0.002 1.42 23.9 20.43		######################################						************** <5 <0.03 <0.5 <0.53 11.4 <0.5 <0.53 11.4 <0.5 <0.6 41.3 <0.1 151.13 41 1	######################################	######################################	H4A ####### 11.3 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	######################################	 <0.03 <0.03 <0.002 <0.002 <0.002 18 <0.002 <0.002 	######################################	************** <5 <0.03 <0.5 <0.5 <9.5 <0.5 <9.5 <0.1 150.84 42 1.1 <0.5 921 0.8 <10 <0.5 12.89 2.4 nm <0.5 11.39 2.4 1.1 <0.002 7.3 <0.002 1.39 2.2 <0.5 17.94 248.87 11.7 <0.1 12:45 3.11 4.58		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Strontium Suspended Solids Temp Thallium Time sampled Tim (µg/1) T.O.C. T.O.N Total S Solids	mg/l CaCO3 ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 255 50 1 1 20 0.5 6.5 - 9.5	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500		0.03 11.5 36.3 <0.1 154.27 44 <0.5 929 0.5 <10 <0.5 14.99 1.7 <0.5 <0.002 7.2 <0.002 1.42 23.9 20.43		######################################						*************** <5 <0.03 <0.5 0.53 11.4 <0.5 41.3 <0.1 151.13 41 1 <0.5 955 <0.5 67 <10 <0.5 1.9 nm <0.5 <0.5 1.9 nm <0.5 <0.5 1.9 nm <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	SOR ####### <5 <0.03 <0.5 <0.05 <0.5 11.5 <0.05 <0.5 <11.5 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	SEMOLE B ####### <5 <0.03 <0.5 <0.54 12.3 <0.5 <0.54 12.3 <0.5 <0.54 14.3 56 <0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	H4A ####### 11.3 <0.03 <0.5 <0.5 12,8 <0.5 12,8 <0.5 12,8 <0.5 12,8 43 <0.5 <0.5 13.05 <1 1.05 <0.5 13.05 <1 1.05 <0.002 1.31 16.9 <0.002 1.31 16.9 40.5	843.6 842.3 843.6 842.3 843.6 842.3 842.3 843.6 842.3 842.3 842.3 843.6 842.3 843.6 842.3 843.6 842.3 843.6 842.3 843.6	 <0.03 <0.03 <0.002 <0.002 <0.002 18 <0.002 <0.002 	######################################	************ <5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		### 07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13

														BORI	EHOLE B	H5A												
Date Collected		DWR	IGV	2010 GW Regs	######	#######	#######	######	#######	#######	#######	######	#######	#######	#######	#######	######	######	#######	#######	#######	#######	#######	28-Aug-07	26-Sep-07	24-Oct-07	28-Nov-07	18-Dec-07
Alkalinity	mg/I CaCO3							380												332							i	
Aluminium	ug/l	200	200	150																							1	
Ammonia	mg/l N		0.11 mg/l N	0.175	18.3	14.87	13.75	14.37	12.33	2.63	< 0.03	5.29	4.34	0.04	12.18	15.65	14.63	4.63	2.43	2.01	4.48	3.87	3.71	3.89	0.20	3.32	2.96	2.82
Antimony	ug/l	5																									l .	
Arsenic	ug/l		10	7.5																							í	
Barium	ug/l		100		119.7			71.5			<50			75.9	106.7		127.6			<50		<50	<50			<50		
Beryllium	ug/l																										l .	
B.O.D.	mg/I O2																											
Boron	μg/l	1000	1000	750				322.7												156.5							l .	
Cadmium	μg/l	5	5	3.75	1.4			0.6			0.3			< 0.10	0.6		< 0.10			0.3		0.6	0.4			<0.10	í	
Calcium	mg/l Ca		200					118.62												108.97							í	
C.O.D.	mg/l O2																										í	
Chloride	mg/l Cl	250	30	187.5	113			94			52			15	76		99			63		54	54			55	í	
Chromium	µg/l	50	30	37.5	15.7			7.5			6.4			<1	6.1		6.4			5.1		5.9	5.9			6.6	1	
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	µS/cm @ 25	2500	1000	1875	1346	1205	1163	1174	1162	989	893	819	762	726	1155	1244	1207	1038	988	888	802	745	744	762	780	693	696	696
Copper	μg/l	2000	30	1500				11.1												3.7							í	
Cyanide	mg/l	0.05	10					< 0.05												< 0.05							i	
D.O.	% Saturation				35			41			90			54	nm		65			60			39			48	í	
E_ Coli	No/100 ml	0						0																			1	
Fluoride	mg/l	0.8	1000					< 0.150												< 0.150							i	
Iron	μg/l	200	200		191.6			544.2			468.1			377.8	148.7		325.3			370.0		274.1	319.7			166.5		
Lead	µg/l	25	10	18.75	7.5			18.3			30.5			14.9	3.6		9.8			13.0		5.2	3.0			<1	1	
Magnesium	mg/l Mg		50					21.25												16.53							i	
Manganese	µg/l	50	50		986			605.7			308.6			177.9	807.2		970.7			209.3		333.4	263.8			73.9	1	
Mercury	μg/l	1	1	0.75				0.5												< 0.10							i	
Molybdenum	µg/l		35																								1	
Nickel	μg/l	20	20	15	66			31.9			10.4			6.2	48.9		57.0			13.8		13.0	11.4			8.4	i	
Nitrite	mg/I N	0.5	0.1	0.375	0.076			0.046			0.012			< 0.003	0.035		0.130			0.040		nm	0.026			0.013		
o-Phosphate	mg/I P		30					0.04												0.07							1	
pH	1	6.5 - 9.5			7.2	7.1	7	7.2	7.1	7.2	7.4	7.1	7.2	7.3	6.9	7.1	7.2	6.9	7.0	7.3	6.9	7.1	7.2	7.0	7.1	7.2	7.1	7.4
Phenol	mg/l		0.0005		0.043			0.089			0.004			< 0.001			0.085			< 0.001			< 0.01			< 0.01		
Potassium	ma/l		5		25.33			16.49			7.34			2.55	18.89		18.27			6.22		5.95	6.28			6.39	1	
Sampling Depth	m				27.4	28.7	29	30.1	29.9	29.4	29.3	28.8	29.2	29	28.7	24.2	28.3	28.9	28.1	28.6	27.2	28.1	26.4	28.0	28.7	27.2	28.1	27.2
Selenium	μg/l	10																										
Silver	μg/l																										i e	
Sodium	mg/l	200	150	150	67.57			60.5			35.3			13.03	69.43		49.90			35.74		24.03	26.98			28.60	i e	
Strontium	μg/l	1													T T		1								i			
Sulphate	mg/I SO4	250	200	187.5				33.1												20.6							i e	
Suspended Solids	mg/I	1																							i			
Temp	°C	1			11	7	6	12.9	13	14	22.2	13	12	13.7	9	7	9.9	12.0	9.0	15.8	14.0	15.0	18.8	14.0	9.0	12.8	12	11
Thallium	μg/l												_							,,,,,			-					
Time sampled	ra.							12.2	12.3	12.4	13	12.3	12.4	12.2	12.2	12.25	12.15	12.30	12.40	12.35	12.35	12.10	12.30	12.30	12.20	12.20	11.2	13.1
Tin (µg/l)	μg/l	1						T					T		T	T	1											
T.O.C.	mg/l	NAC			194			4.8			2.4			3	3.9		4.4			2.5			3.0			1.6		
T.O.N	mg/l N		NAC		11.28			9.27			17.15			2.67	8.54		15.22			3.77		6.91	7.50			6.99		
Total S Solids	mg/l	1									0				2.04							2.01				2.30		
Uranium	μg/l	+			-												1	-										1
Vanadium	µg/l	+		 		 		-			-		-		-	-	 			-				-	l			+
Zinc	ua/l	+	100		47.1	 		32			19.7			14.2	30.1		43.5			12.9		12.2	2.4	3.3	14.7	8.0		
LIIIC	pg/1	1	100		47.1	<u> </u>	1	JZ			.3.7			1.4.2	55.1		-10.0		1	12.3		12.2	2.7	0.0	1-4.1	0.0		l

																DREHOLE												
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######		#######	#######	#######	######	######	#######	#######	######	#######	#######	#######		#######	#######	######	18-Aug-09	29-Sep-09	20-Oct-09	17-Nov-09	
Alkalinity	mg/l CaCO3							288												253								368
Aluminium	ug/l	200	200	150																								
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	7.35	10.94	5.36	3.63	2.89	2.49	2.59	2.09	5.88	8.18	9.58	< 0.03	< 0.03	9.9	< 0.03	2.42	1.93	2.16	< 0.03	1.64	0.03	1.19	1.98	10.91
Antimony	ug/l	5																										~ 0
Arsenic	ug/l		10	7.5																								V.
Barium	ug/l		100		76.2			<50			<50			63			<50			<50			61.9			<50		104.7
Beryllium	ug/l																									A.	4. 2	
B.O.D.	mg/l O2																									- 0	100	
Boron	μg/l	1000	1000	750				125.3												111.7						0.	. 0	257.3
Cadmium	μg/l	5	5	3.75	0.5			< 0.10			< 0.10			0.6			< 0.10			0.2			0.1			Q (0.1 _A	0	0.6
Calcium	mg/l Ca		200					100.45												93.55						80.0	,	118.73
C.O.D.	mg/l O2																								~	D*. 40°	 	
Chloride	ma/l Cl	250	30	187.5	68			52			47			72			31			48			11		~	144	+	69
Chromium	μg/l	50	30	37.5	5.6			6			<1			<1			6.7			6.4			5.4		200	7.6	†	9.9
Cobalt	ug/l	30	30	37.3	3.0						\ 1						0.7			0.4			3.4		23 4	¥77.0	+	3.3
Coliform Bacteria	(No/100 ml)	0																						٠. ٥			+	
Conductivity	µS/cm @ 25	2500	1000	1875	952	1068	884	743	715	687	664	670	884	998	1038	725	668	1035	691	694	667	665	655	643		655	676	1043
Copper	µg/l	2000	30	1500				2.5												2.4				-00	N			8.3
Cyanide	mg/l	0.05	10					< 0.05												<0.01				~	5			<0.05
D.O.	% Saturation	0.00			34			44			38			31			64			38			nm *	38/		30	+	52
E_ Coli	No/100 ml	0						0			- 00			JI			04			- 00			11111 /	. 2		30	+	32
Fluoride	mg/l	0.8	1000					<0.150												0.15			70	1220			+	<0.150
Iron	µg/l	200	200		315.6			171.2			106.5			314			118.7			148			52.8	4		<50		<50
Lead	µg/l	25	10	18.75	6.8			<1			<1			5.2			<1			3.4			1.8	δ, —		<1		3.0
Magnesium		23	50	10.73	0.0			13.56			<1			3.2			\1			12.33			-1.00	,		- 1	+	16.77
	mg/l Mg μg/l	50	50		463.5			173.8			54.4			524.9			34			96.9			38.9			4.1	+	706.3
Manganese			1	0.75	463.5			<0.10			54.4			524.9			34			<0.1		×	88.9			4.1		<0.1
Mercury	μg/l	1	35	0.75				<0.10												<0.1		-0	2					<0.1
Molybdenum	μg/l																					مربعي					<u> </u>	
Nickel	μg/l	20	20	15	30.3			9.1			5.5			31			<1			7.1		03	2.2			4.1	<u> </u>	41.3
Nitrite	mg/l N	0.5	0.1	0.375	0.309			0.02			0.013			0.029			<0.002			0.007	^	O _V	<0.002			0.030	<u> </u>	0.104
o-Phosphate	mg/l P		30					0.04									< 0.02			0.05		/					<u> </u>	< 0.02
pH		6.5 - 9.5			6.9	7.1	7	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7	8	7.2	7.1	7.2	7.1	7.1	7.8	7.1	7.2	7.1	7.2	7.1	7.0
Phenol	mg/l		0.0005		0.02			<0.01			< 0.01			0.03			< 0.01			< 0.002			< 0.025			< 0.015		< 0.015
Potassium	mg/l		5		12.51			6.96			4.46			11.73			3.66			5.02			2.48			5.13		13.94
Sampling Depth	m				27.9	26.1	26.2	25	26.3	26.5	26.6	27	25.8	nm	25.7	25.8	25.8	25.2	25.2	25.1	26	26.8	26	26.5	24.9	25.7	26.8	nm
Selenium	μg/l	10																										
Silver	μg/l																										'	
Sodium	mg/l	200	150	150	45.36			28.07			22.72			44.36			24.25			25.96			9.94			23.89		40.59
Strontium	μg/l																											
Sulphate	mg/l SO4	250	200	187.5				19												15								45.8
Suspended Solids	mg/l																											
Temp	°C				9.2	11	11	13	nm	15.5	15.5	15	13	8.9	11	10	7.1	12	11	15	12.5	14	15	14.9	11	11.2	10.1	10.7
Thallium	μg/l																										—	
Time sampled	1				nt	12.3	12.35	12.45	12.15	12.35	12.25	12.2	14.1	12.1	12.3	12	12.2	14.15	12.2	12.2	12.15	12.25	12.1	12.2	12.15	11.55	11.00	14.30
Tin (µg/l)	μg/l		1						t é			<u> </u>												İ			T	
T.O.C.	mg/l	NAC	1		3.4			<1.5			<1.5			3			<1.5			1.6			6.9	İ		3.2	T	4.6
T.O.N	mg/l N		NAC	l	10.75			10.31			6.57	1	1	9.77		1	5.79			5.94			0.91	1		6.00	1	4.40
Total S Solids	mg/l	1		l								1	1	0.77		1	3.73						0.51	1		0.00	1	7.70
Uranium	µg/l	1	1	l	1							1	1			1								1			1	
Vanadium	µg/l		 		1							<u> </u>	<u> </u>			<u> </u>								 		 	+	
Zinc	µg/l		100		33.8			4.1			5.9	<u> </u>	<u> </u>	38		<u> </u>	7			11.7			8.8	 		4.5	+	34.1
LIIIC	IEA/I	1	100	l	33.0	1	1	7.1	1	1	5.5	1	1	30	1	1	_ /	1	ľ	11.7	1	1	0.0	1	1	4.5	1	34.1

															ВО	DREHOLE	BH5A											
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	######	######	#######	#######	#######	#######	#######	09-Aug-11	06-Sep-11	04-Oct-11	08-Nov-11	13-Dec-11
Alkalinity	mg/l CaCO3			_				236						327						317								
Aluminium	ug/l	200	200	150																								
Ammonia	mg/I N	0.23 mg/l N	0.11 mg/l N	0.175	7.11	4.6	2.67	2.25	1.82	1.26	0.89	0.90	0.51	< 0.03	0.55	9.73	1.59	9.80	< 0.03	< 0.03	< 0.03	1.01	< 0.03	0.65	0.51	0.66	0.29	5.88
Antimony	ug/l	5																										
Arsenic	ug/l		10	7.5																								
Barium	ug/l		100		43.7			19.4			18.3			65.2				109.7		16.6			63.5					
Beryllium	ug/l																											
B.O.D.	mg/l O2																											
Boron	μg/l	1000	1000	750				113						26.4						132.9								
Cadmium	μg/l	5	5	3.75	0.3			0.2			0.3			< 0.1				<1		0.1			< 0.1					
Calcium	mg/I Ca		200					96.12						137.42						113.47								
C.O.D.	mg/l O2																											
Chloride	mg/l Cl	250	30	187.5	64			45			41			14				63		49			16			37		
Chromium	μg/l	50	30	37.5	1.3			4.3			6.4			0.6				<5		4.8			< 0.5					
Cobalt	μg/l	1	-				1				1						1	1					1			1		
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	µS/cm @ 25	2500	1000	1875	934	808	735	506	666	630	624	61		662	655	1002	780	1025		804	705	589	717	614	601	654	760	976
Copper	μg/l	2000	30	1500				2.2						4.2						1								
Cyanide	mg/l	0.05	10					< 0.05						< 0.05						< 0.05						< 0.05		
D.O.	% Saturation				75			36			40			53				51		36			39			17		
E_ Coli	No/100 ml	0						1						nm						nm								
Fluoride	mg/l	8.0	1000					< 0.150						< 0.150						< 0.150						< 0.150		
Iron	μg/l	200	200		51.2			82.2			124.2			19.9				<100		18.5			<10					
Lead	μg/l	25	10	18.75	1.6			2.8			3.8			1.0				<5		< 0.5			<0.5					
Magnesium	mg/l Mg		50					12.33						11.16						15.83								
Manganese	μg/l	50	50		231.9			155.2			331.4			14.8				669.4		96.1			32.5					
Mercury	μg/l	1	1	0.75				< 0.1						< 0.05						< 0.05								
Molybdenum	μg/l		35																									
Nickel	μg/l	20	20	15	17.1			6.9			7.8			1.2				40.9		7			<0.5					
Nitrite	mg/l N	0.5	0.1	0.375	0.006			0.006			0.008			< 0.002				0.067		0.031			< 0.002					
o-Phosphate	mg/l P		30					0.05						0.03						0.02						0.04		
pH		6.5 - 9.5			7.2	7.3	7.2	8	7.1	7.3	7.2	7.2		7.3	7.3	7.1	7.3	7.6	7.3	7.2	7.1	7.1	7.1	7.2	7.5	7.3	7.3	7
Phenol	mg/l		0.0005		< 0.015			< 0.015			< 0.025			< 0.025				< 0.025		< 0.013			< 0.008			< 0.016		
Potassium	mg/l		5		9.37			5.3			4.52			3.07				13.66		6.51			2.43					
Sampling Depth	m				24.3	24.1	26.1	2	26	26	27.6	25.9	26.3	nm	26.1	26.7	24.8	24.3	28.3	25	15.5	28	28.2	25.6	29.5		27.6	25.7
Selenium	μg/l	10																										
Silver	μg/l																											
Sodium	mg/l	200	150	150	34.28			25.63			19.19			10.90				41.13		29.62			11.44					
Strontium	μg/l																											
Sulphate	mg/l SO4	250	200	187.5				17.1						13.5						21.6				1		13.5		
Suspended Solids	mg/l																											
Temp	°C				6.7	9.7	11	15.9	12	12	21.0	12.5	16.7	10.9	9.4	9.5	12.0	9.0	11.3	12	12	12.7	13.1	12	15.2	13.8	12.4	11.4
Thallium	μg/l																											
Time sampled					12.1	12.25	12.15	12.4	12.1	12.15	11.40	12.15	12.55	nt	16:20	12:00	12:10	12.30	12:20	12:20	12:20	12:30	12:20	14:35	14:10	12:20	13:00	14:45
Tin (μg/l)	μg/l																											
T.O.C.	mg/l	NAC			4.8			1.9			<1.5			79.8				4.6		62.9			4.4					
T.O.N	mg/l N		NAC		5.79			7			6.73			1.82				10.55		8.37			2.13			5.14		
Total S Solids	mg/l																											
Uranium	μg/l																											
Vanadium	μg/l																											
Zinc	ug/l		100		14			9.5			12.9			8.1			1	50.2		5.4			9.3					
	iro"	1		1				5.5			**			0.1			1	JU.2		3.7			5.5			1		

															ВС	REHOLE	BH5A											
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	07-Aug-13	17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
	mg/I CaCO3							284												266								
Aluminium	ua/l	200	200	150				20.6			<5			<5			<5			<5			<5		<5	<5		- X ~
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	7.82	9.76	8.97	1.97	1.59	1.63	0.05	1.04	3.34	3.63	4.12	4.35	6.78	6.13	3.44	2.37	1.27	0.49	0.15	0.08	< 0.03	0.04	2.5	0.96
Antimony	ug/l	5						< 0.5			< 0.5			< 0.5			< 0.5			< 0.5			< 0.5		< 0.5	< 0.5		N
	ug/l		10	7.5				< 0.5			< 0.5			0.54			< 0.5			< 0.5			< 0.5		< 0.5	< 0.5	4	Ψ-
	ug/l		100		69.8			15.1			17.3			32.1			101.2			20.9			10.9		27.9	9.7	4. 2	
	ug/l							< 0.5			< 0.5			< 0.5			< 0.5			< 0.5			< 0.5		< 0.5	<0.5	1,00	
	mg/l O2																									0.	A	
Boron	ua/l	1000	1000	750	237.8			100.3			100.4			162.1			169.7			105.4			68.7		117.3	⊘ 67.5 ₄ ³	Č.	
	μg/l	5	5	3.75	0.3			0.1			0.1			0.2			0.5			0.1			<0.1		<0.1	5 < 0.10	ſ	
Calcium	mg/l Ca		200		121.69			83.77			92.61			110.39			117.23			99.8			89.33		73.45	86.2		
C.O.D.	mg/I O2																								117	113		
Chloride	ma/l Cl	250	30	187.5	63			46			42			49			52		49	42			37		- 60	39		
Chromium	μg/l	50	30	37.5	1.7			5			3.1			4.1			< 0.5			5.2			7.7		^< 0.5 ^	8.3		
	μg/l							< 0.5			< 0.5			< 0.5			0.6			< 0.5			< 0.5) <0.5 _v	< 0.5		
Coliform Bacteria	(No/100 ml)	0						206												78				-	100			
	µS/cm @ 25	2500	1000	1875	1112	1041	1011	700	657	736	825	696	840	842	881	851	919	908	856	740	688	645	613	60	590	601	742	702
Copper	ua/l	2000	30	1500	4.7			0.9			1.3			1.7			5.1			2.1			0.6	£ (0.9	< 0.5		
	mg/l	0.05	10					< 0.05												< 0.05				W. 10				
D.O.	% Saturation				31			27			23			25			22		25	19			19	. 62		31		
E_ Coli	No/100 ml	0						6												61			40	100				
Fluoride	mg/l	0.8	1000					0.15												< 0.150			7 (73				
	μg/l	200	200		93.7			12.5			<10			10.6			<10			10.9			<1.00	\$	16.8	<10		
Lead	ua/l	25	10	18.75	0.8			< 0.5			< 0.5			< 0.5			< 0.5			< 0.5			€0.5		< 0.5	< 0.5		
Magnesium	mg/l Mg		50		17.59			11.9			12.84			15.82			15.37			13.44			31.33		4.74	10.48		
	μg/l	50	50		319.1			59			58.1			83.1			490.3			81.1		Ä	15.3		<1	1.7		
Mercury	μg/l	1	1	0.75	nm			< 0.05			nm			nm			nm			< 0.05		20,5	nm		nm	nm		
Molybdenum	μg/l		35					< 0.5			< 0.5			< 0.5			< 0.5			< 0.5		2	< 0.5		< 0.5	< 0.5		
Nickel	μg/l	20	20	15	32.5			5.4			4.5			10.4			30.3			13.5	^	Ox	3.3		2	2.4		
Nitrite	mg/l N	0.5	0.1	0.375	0.254			0.014			0.019			0.013			0.053			0.006)	0.016		< 0.002	< 0.002	Ĭ	
o-Phosphate	mg/l P		30					0.05											0.03	0.04							Ĭ	
pH		6.5 - 9.5			7.3	7	7.2	7.1	7.3	7.2	7.2	7.2	7	7.2	7	7.1	7.2	7.1	7.1	7.1	7.2	7.2	7.1	7.3	7.4	7.1	7.1	7.2
Phenol	mg/l		0.0005		<0.002			< 0.025			< 0.002			< 0.002			< 0.002			< 0.002			< 0.002		< 0.002	< 0.002		
Potassium	mg/l		5		13.13			4.53			5.16			8.89			10.4			6.11			3.87		2.5	3.45	Ĭ	
Sampling Depth	m				25.7	25.5	25.7	25.8	25.7	25.8	25.1	25.2	25.2	25.1	25	24.2	22.7	23		24	23.9	25.9	25.3	27.6	28.1	27.1	18	26
	μg/l	10						< 0.5			0.7			< 0.5			0.6			0.5			< 0.5		< 0.5	< 0.5		
	μg/l							< 0.5			nm			nm			nm			nm								
Sodium	mg/l	200	150	150	44.23			21.46			22.1			34.57			31.31			25.51			19.42		31.43	17.64		1
	μg/l							138.64			129.35			163.24			227.34			143.67			108.87		94.35	109.61		
	mg/l SO4	250	200	187.5				18											31.9	24.5						1		1
Suspended Solids	mg/l																											
	°C				11.9	10.8	12.3	12.7	13.8	12.6	15.8	17	12.7	16	10.4	10.4	9.2	10.2	9.8	10.8	12.6	12.2	20.2	14.8	10.5	14	9.9	nm
	μg/l							0.38			0.46			0.82			2.66			0.57			0.22		<0.1	0.13		
Time sampled					13:10	13:45	12:15	12:10	13:10	12:50	11:45	12:20	12:50	12:00	12:20	12:25	12:25	12:35	12:05	11:55	12:30	12:15	11:45	12:30	11:45	11:50	11:20	13
	μg/l							<1			<1			<1			nm			nm								
	mg/l	NAC			82.2			50.1			2.5			1.6			79.7			<1.5			1.9			3.8		
	mg/l N		NAC		6.64			6.17			2.89			9.06			7.12		7.85	7.36			5.96		0.23	4.89		1
Total S Solids	mg/l			1																							1	
	μg/l							1.1			1.02			1.18			0.93			1.34			1.03		0.24	1.04		
Vanadium	μg/l							< 0.5			0.64			0.86			0.75			< 0.5			0.58		< 0.5	0.77	$\perp \overline{}$	
	μg/l	1	100		32.1			7.9			12.3	1		14.9			30.9			9.2			6.2	1	5.1	5.3	1	1

																REHOLE												
Date Collected		DWR	IGV	2010 GW Regs	#######	######	#######		#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######		#######	#######	#######	28-Aug-07	25-Sep-07	24-Oct-07	28-Nov-07	18-Dec-0
Alkalinity	mg/l CaCO3							186												200								
Aluminium	ug/l	200	200	150																								
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	0.03	< 0.03	0.06	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03	< 0.03	0.05	< 0.03	< 0.03	<0.03	< 0.03
Antimony	ug/l	5																										
Arsenic	ug/l		10	7.5																								
Barium	ug/l		100		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	nm	<50
Beryllium	ug/l																											
B.O.D.	mg/l O2																											
Boron	μg/l	1000	1000	750				<50												<50								
Cadmium	μg/l	5	5	3.75	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	< 0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	<0.1	<0.10
Calcium	mg/I Ca		200					75.04												73.02								
C.O.D.	mg/l O2																											
Chloride	mg/I CI	250	30	187.5	35	40	36	28	29	30	30	33	41	51	47	39	38	29	23	24	29	33	25	26	30	38	41	48
Chromium	μg/l	50	30	37.5	6.2	2.5	3.3	<1	2.5	<1	<1	2.7	3.6	<1	2.2	<1	3.2	<1	2.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	µS/cm @ 25	2500	1000	1875	508	514	566	490	488	489	481	486	502	525	518	503	495	496	489	487	496	476	463	465	480	439	486	514
Copper	μg/l	2000	30	1500				4.5												<1								
Cyanide	mg/l	0.05	10					< 0.05												< 0.05								
D.O.	% Saturation				49			68			85			56			63			65			82			50		
E Coli	No/100 ml	0						0																				
Fluoride	mg/l	0.8	1000					0.16												< 0.150								
Iron	μg/l	200	200		65.9	66	99.5	261.6	208.4	141.1	142.1	194	209.9	271.3	170.3	66.8	171.5	168.3	106.4	171.5	142.2	154.8	166.9	192.7	169.7	137.7	175.1	212.1
Lead	μg/l	25	10	18.75	5.2	6.4	5.6	16.9	17.9	4.8	15.9	15.4	11.9	31.1	16.3	13.9	19.3	18.3	3.5	7.5	8.9	12.6	18.0	12.7	4.9	6.0	9	9.5
Magnesium	mg/l Mg		50					2.93												2.80								
Manganese	μg/l	50	50		4	5.4	9.2	28.1	27.1	9.5	14.6	41	61.5	61.8	32.2	23.5	22.6	25.0	3.7	10.8	43.9	30.8	48.4	56.9	8.8	16.1	35.9	35.5
Mercury	μg/l	1	1	0.75				0.4												<0.10								
Molvbdenum	μg/l	-	35																									
Nickel	μg/l	20	20	15	<1	<1	<1	2.2	2.1	2.1	<1	2.9	6.6	3.5	<1	<1	<1	<1	<1	4.1	<1	<1	<1	<1	<1	<1	2.1	2.6
Nitrite	mg/l N	0.5	0.1	0.375	< 0.003	< 0.003	0.003	0.005	< 0.003		< 0.003	< 0.003	< 0.003	0.017	< 0.003	< 0.003	0.004	< 0.003	< 0.003	< 0.003	< 0.003	nm	0.003	0.005	0.003	0.005	< 0.003	0.006
o-Phosphate	mg/I P	0.0	30	0.0.0	10.000	40.000	0.000	0.02	40.000		40.000	40.000	40.000	0.011	40.000	40.000	0.001	40.000	40.000	<0.02	40.000		0.000	0.000	0.000	0.000	40.000	0.000
На		6.5 - 9.5			7.6	7.6	7.6	7.5	7.6	7.5	7.6	7.7	7.6	7.7	7.5	7.8	7.6	7.3	7.2	7.6	7.4	7.6	7.5	7.5	7.4	7.6	7.5	7.6
Phenol	mg/l	0.0 0.0	0.0005		<0.001	<0.001	0.009	<0.001	0.174	0.196	0.002	0.009	0.005	<0.001	0.131	<0.001	0.007	nm	<0.001	<0.001	<0.01	nm	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01
Potassium	mg/l		5		1.52	0.6	0.003	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.17	<1	<1	<1	<1	<1	<1	<1	<1
Sampling Depth	m				29.8	29.9	29.1	29.6	29.9	29.7	29.7	29.8	28.6	29.2	29.8	28.6	29.8	29.2	29.7	29.0	29.5	29.7	28.4	29.0	29.4	28.7	29.3	30.1
Selenium	μg/l	10			20.0	20.0	20.1	20.0	20.0	20.1	20.1	20.0	20.0	20.2	20.0	20.0	20.0	20.2	20.7	20.0	20.0	20.1	20.7	20.0	20.7	20.7	20.0	50.1
Silver	μg/l	10			 	 			-					-	-	-				I			 	 				
Sodium	ma/l	200	150	150	20.64	20.29	25.75	18.44	21.97	15.1	19.85	18.78	22.06	24.64	28.83	20.16	16.86	16.06	13.72	16.50	22.78	16.96	15.81	16.79	15.10	19.03	23.18	25.78
Strontium	μg/l	200	130	130	20.04	20.23	20.13	10.44	21.31	10.1	13.03	10.70	22.00	24.04	20.03	20.10	10.00	10.00	13.12	10.50	22.10	10.30	10.01	10.73	10.10	19.03	23.10	20.10
Sulphate	mg/l SO4	250	200	187.5				19.5												19.8				1				
Suspended Solids	mg/l	230	200	107.3	-	 		13.5		-		-	-					-	-	13.0	-		 	1		1		
Temp	°C	+			9.5	8	6	13.6	12	14	22	14	13	13.6	10	9	9.3	12.0	10.0	13.8	14.0	14.0	18.4	14.0	10.0	10.4	13	11
Temp Thallium		_			9.0	- 0	U	13.0	12	14	22	14	13	13.0	10	y	9.3	12.0	10.0	13.0	14.0	14.0	10.4	14.0	10.0	10.4	13	- 11
	μg/l	+ +			1			10.45	11.1	11.15	11.45	11.1	11.05	10.5	11.1	11.15	11.20	11.00	11.10	11.10	10.55	11.20	11.30	11.10	11.15	11.10	9.15	11.3
Time sampled	ua/I	+			-	1		10.45	11.1	11.15	11.45	11.1	11.05	10.5	11.1	11.15	11.20	11.00	11.10	11.10	10.55	11.20	11.30	11.10	11.15	11.10	9.15	11.3
Tin (μg/I) T.O.C.	μg/l	NAC			2.7	 		-1 5		-	-1 E	-	-	1.5			-1 E			-1 E	-	4	<1.5	1	-	-1 5	1	
	mg/l	NAC	1110		2.7	0.75	0.00	<1.5	0.04	0.04	<1.5	0.00	0.50	1.5	0.00	0.00	<1.5	0.70	0.00	<1.5	4.05	07		4.00	4.40	<1.5	0.05	0.50
T.O.N	mg/l N		NAC		0.69	0.75	0.83	0.89	0.91	0.94	0.99	0.86	0.59	0.61	0.68	0.68	0.75	0.73	0.90	1.20	1.05	0389	1.08	1.30	1.12	0.79	0.65	0.52
Total S Solids	mg/l	\perp																				9		1				
Uranium	μg/l				-	-														<u> </u>	4.4		-					
Vanadium	μg/l						0.0	0.5	0.0	0.0		0.7	40.5	44.0	40.4	0.0	440	40.4	4.0	000	12 211,	0.0	ļ	1			0.0	7.0
Zinc	μg/l		100		5.2	5.8	3.9	9.5	8.8	6.2	5.7	9.7	10.5	11.2	10.4	8.3	14.0	10.4	4.6	3.20	_<1′	3.6				6.0	8.6	7.3

																				_e5 _	Yo.							
																DELIGI E	DUGA			105,16 _C	>							
Data Callested		DWR	101/	0040 OW D												REHOLE			Lunnum					18-Aug-09	00.0 00	00 0-1 00	47.11 00	100 D 00
Date Collected	/I C-CO2	DWK	IGV	2010 GW Regs	#######	*****	#######		#######	#######	#######	#######	#######	#######	#######	#######	*****	#######			#######	*****	*****	18-Aug-09	29-Sep-09	20-Oct-09	17-NOV-U9	08-Dec-09
Alkalinity	mg/l CaCO3	000	000	450				162											001	196								
Aluminium	ug/l	200	200	150															0 00 00 V									
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	0.08	0.03	<0.03	< 0.03	0.04	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Antimony	ug/l	5																_&V.,	0									
Arsenic	ug/l		10	7.5			=0			=0		=0	=-		=0			JU JO										
Barium	ug/l		100		51.4	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50		<50	<500	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Beryllium	ug/l																×	3										
B.O.D.	mg/l O2																	Ox										
Boron	μg/l	1000	1000	750	0.10	0.10	0.40	63.4	0.10	0.40	0.10	0.40			0.40	0.10	- X	,		<50								
Cadmium	μg/l	5	5	3.75	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.00	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium	mg/l Ca		200					77.49									gli			83.89								
C.O.D.	mg/l O2																50											
Chloride	mg/l Cl	250	30	187.5	49	44	42	40	45	49	54	54	61	53	47	45 0	39	34	35	34	41	45	45	47	48	51	54	41
Chromium	μg/l	50	30	37.5	<1	<1	<1	<1	<1	6	<1	3.4	<1	<1	<1	₩.	2.3	2.1	1.1	2.2	2.2	3.7	3.5	3.7	2.89	1.4	3.5	4.1
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	μS/cm @ 25	2500	1000	1875	531	508	506	480	490	510	516	522	556	537	514	506	493	486	485	508	497	508	506	508	514	516	525	503
Copper	μg/l	2000	30	1500				2.6												<1								
Cyanide	mg/l	0.05	10					< 0.05												<0.01								
D.O.	% Saturation				51			80			52			53			58			101			nm	75		42		
E_ Coli	No/100 ml	0						0																1				
Fluoride	mg/l	0.8	1000					0.16												<0.150								
Iron	μg/l	200	200		240.2	103.5	102.8	113.4	103.4	227.4	125.1	115	139.9	158.4	137.4	87	151.3	108.9	103.9	108.8	132.7	54.6	<50	<50	56.51	<50	<50	<50
Lead	μg/l	25	10	18.75	9.4	5.6	5.5	9.6	4.2	17.4	8.5	11.6	6.7	6.4	7.5	<1	4.5	1.6	3.2	1.9	5	3.9	1.8	2.1	2.19	1.4	1.5	2.7
Magnesium	mg/l Mg		50					2.73												3.06							L	
Manganese	μg/l	50	50		36.4	11.8	9	15.6	6.1	43.4	18.6	37.9	174.2	19	16.2	9.4	15.2	4.5	21.5	8.9	15.3	22.8	14.2	10.9	10.33	9.5	5.9	9.3
Mercury	μg/l	1	1	0.75				<0.10												<0.1								
Molybdenum	μg/l		35																								L	
Nickel	μg/l	20	20	15	2.3	<1	<1	<1	<1	2.3	<1	<1	<1	<1	<1	<1	<1	<1	1.3	<1	1.7	1.6	1.3	1.5	1.35	1.4	1.4	<1
Nitrite	mg/l N	0.5	0.1	0.375	0.006	< 0.003	< 0.003	0.006	<0.003	0.006	0.005	0.777	0.055	< 0.003	< 0.003	< 0.003	<0.002	<0.002	<0.002	< 0.002	0.003	< 0.002	<0.002	<0.002	<0.002	<0.002	0.004	<0.002
o-Phosphate	mg/l P		30					0.03									<0.02			0.02							L	
pH		6.5 - 9.5			7.4	7.5	7.5	7.6	7.6	7.5	7.5	7.6	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.6	7.4	7.6	7.8	7.4	7.6	7.5
Phenol	mg/l		0.0005		0.03	0.02	0.02	<0.01	<0.01	<0.01	nm	0.02	<0.01	0.05	<0.01		< 0.01	0.01	< 0.016	<0.002	< 0.002	< 0.002	nm	< 0.002	<0.015	< 0.015	<0.0005	< 0.015
Potassium	mg/l		5		1.89	<1	<1	<1	<1	<1	<1	0.96	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sampling Depth	m				29.6	29.2	29	29.9	28.5	28.1	28.5	28.1	28.9	29	29	28.9	28.9	28.8	29.9	29.3	29	28.3	28	28	29.1	29.2	28.1	28.1
Selenium	μg/l	10																										1
Silver	μg/l																											
Sodium	mg/l	200	150	150	25.1	23.4	27.54	23.82	20.1	23.99	23.92	25.75	26.12	26.21	26.89	28.36	26.96	21.36	23.31	16.76	25.05	23.27	24.88	24.73	25.02	27.44	28.80	23.38
Strontium	μg/l																											1
Sulphate	mg/I SO4	250	200	187.5				21.8												16.6							L	
Suspended Solids	mg/l																											
Temp	°C				6.8	11	12	11	12	15.9	15.8	14	11	8.9	11	10	6.8	13	10	13	11	13	16	13.9	11	10.7	10.1	10.0
Thallium	μg/l																										L	
Time sampled					nt	11.1	11.15	11.15	11	11	11.15	11	11.15	10.5	11.05	10.15	11.2	11	11.1	11	11.15	10.55	11	10.5	10.5	10.50	9.05	11.00
Tin (μg/I)	μg/l																											
T.O.C.	mg/l	NAC			<1.5			<1.5			<1.5			<1.5			1.5			<1.5			<3.0			<3.0		1
T.O.N	mg/l N		NAC		0.73	0.95	1.19	1.09	0.9	0.68	0.7	0.5	0.49	0.83	0.92	0.95	1.39	1.15	1.08	0.62	0.68	0.53	0.44	0.44	0.37	0.29	0.22	0.60
Total S Solids	mg/l												-							-								
Uranium	μg/l																											
Vanadium	μg/l																											
Zinc	μg/l		100		15.5	9.4	8.9	12.4	<1	18.1	13.9	18.7	16.1	12.3	8.5	6.5	10.5	9.2	7	3.1	8.5	8.3	5.5	4.5	118.76	5.4	6.0	7.7

															ВО	REHOLE	BH6A											
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######	#######	#######	#######	#######	#######	#######	######	#######	#######	######	######	#######	#######	#######	#######	#######	09-Aug-11	06-Sep-11	04-Oct-11	08-Nov-11	13-Dec-1
Alkalinity	mg/I CaCO3			•				170						180						174					•			
Aluminium	ug/l	200	200	150																								
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Antimony	ug/l	5	-																									
Arsenic	ug/l		10	7.5																								
Barium	ug/l		100		43.2	42.9	42	40.1	36.3	37.2	39.7	40.5	42.0	48.6	46.5	40.6	42.2	42.8	41.5	37.6	37.6	38.2	37.3	32.4	38.4		44.4	
Beryllium	ug/l																											
B.O.D.	mg/I O2																											
Boron	μg/l	1000	1000	750				60.7						79.5						48.1								
Cadmium	μg/l	5	5	3.75	<0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1		< 0.1	
Calcium	mg/I Ca		200					68.22						85.11						80.4								
C.O.D.	mg/I O2																											
Chloride	mg/l Cl	250	30	187.5	34	28	27	26	26	30	32	39	40	51	40	29	21	25	22	22	24	46	32	44	52	62	60	57
Chromium	μg/l	50	30	37.5	<1	1.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	0.6	<5	1.7	<0.5	0.6	0.5	<0.5	<0.5	<0.5		< 0.5	
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	μS/cm @ 25	2500	1000	1875	480	455	464	458	454	451	461	477		504	485	442	456	455	456	903	436	413	449	488	511	570	657	596
Copper	μg/l	2000	30	1500				<1						1.3						0.8								
Cyanide	mg/l	0.05	10					< 0.05						nm						< 0.05						< 0.05		
D.O.	% Saturation				64			76			74			40				95		73			61			22		
E_ Coli	No/100 ml	0						3						nm						nm								
Fluoride	mg/l	0.8	1000					0.18						0.200						0.15						0.15		
Iron	μg/l	200	200		<50	79.1	22.5	<10	42.9	18.4	21.4	46.7	29.8	48.0	<100	<100	115.9	<100	19.0	95.5	29.1	<10	12.1	<10	<10		<10	
Lead	μg/l	25	10	18.75	<1	5.8	3.1	1.1	2.6	1.4	3.9	1.7	2.1	3.0	<5	<5	2.1	<5	0.8	3	0.9	<0.5	<0.5	<0.5	<0.5		< 0.5	
Magnesium	mg/l Mg		50					2.3						2.82						3.03								
Manganese	μg/l	50	50		4.2	19.5	6.3	4.5	23.8	9.6	24.7	19.7	17.7	19.7	14.7	<10	15.8	11.1	3.2	22.4	5.1	4.8	4.1	1.9	48.3		2.5	
Mercury	μg/l	1	1	0.75				<0.1						<0.05						<0.05								
Molybdenum	μg/l		35																									
Nickel	μg/l	20	20	15	1.2	1.3	<1	<1	<1	<1	<0.5	1.2	1.1	1.3	<5	<5	<0.5	<5	<0.5	<0.5	0.7	0.5	0.5	0.7	0.7		< 0.5	
Nitrite	mg/l N	0.5	0.1	0.375	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	nm	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002		<0.002	<0.002
o-Phosphate	mg/I P		30					< 0.02						< 0.02						< 0.02						<0.02		
pН		6.5 - 9.5			7.5	7.6	7.6	7.5	7.6	7.6	7.6	7.4		7.6	7.8	7.8	7.5	8.0	7.7	7.6	7.5	7.6	7.7	7.4	7.6	7.6	7.7	7.6
Phenol	mg/l		0.0005		<0.015	<0.015	<0.015	<0.015	<0.2	<0.1	<0.025	<0.015	<0.015	<0.025	<0.015	<0.025	< 0.01	<0.025	<0.025	<0.013	<0.013	<0.008	<0.008	< 0.016	<0.016	< 0.016	<0.025	
Potassium	mg/l		5		<1	<1	<1	<1	<1	0.75	2.24	0.79	0.77	0.93	<2.5	<2.5	0.70	<2.5	0.63	0.91	0.67	0.85	0.78	1.44	1.37		1.23	
Sampling Depth	m "				28.6	28.6	29.4	29.1	28.8	29	30.6	29.0	29.5	nm	29.2	29.1	28.0	28.0	28.3	28.1	24.5	29.3	29.5	29.5	29.7		29.1	29
Selenium	μg/l	10							<u> </u>								1			1								1
Silver	μg/l	200	450	450	40.05	20.55	24.0	20.45	40.40	22.07	40.04	24.55	22.42	20.00	25.46	10.55	47.00	10.55	45.55	47.0	40.05	47.45	46.0	20.45	25.07		20.50	1
Sodium	mg/l	200	150	150	19.97	20.67	21.3	20.42	18.48	22.84	18.31	21.53	22.10	28.99	25.16	18.67	17.20	18.65	15.53	17.8	18.89	17.45	16.3	20.17	25.24		30.62	1
Strontium	μg/l	250	000	407.5	1		1	20.7	1					40.0			1									40.7		1
Sulphate	mg/I SO4	250	200	187.5	1		1	22.7	1					19.3			1			17.7						19.7		1
Suspended Solids	mg/l				- 10		- 10	40.4	l	40.0	25.0	40.0		40.5			40.0	40.0	44.0	44.0		40.0	40.4		44.0		40.5	44.5
Temp	°C	+			10	10	10	13.1	11	12.2	25.0	10.8	14.7	10.5	9.8	9.7	12.0	10.0	11.2	11.8	15	12.3	12.4	12	14.2	12.4	12.5	11.3
Thallium	μg/l				10.55	40.5	10.55	44.05	40.55	40.55	44.00	40.50	40.00	44.45	0.50	40.00	40.45	44.00	44.00	40.55	L	40.55	71.40.00	40.00	44.00	40.50	40.40	00.00
Time sampled					10.55	10.5	10.55	11.05	10.55	10.55	11.00	10.50	12.20	11:15	9:50	10:00	10:45	11.00	11:30	10:55	11	10:55	10:20	10:20	11:00	10:50	10:40	09:00
Tin (µg/l)	μg/l	1140					1		1		4.5						1					2(1).						1
T.O.C.	mg/l	NAC	N/4.0		<3.0			<1.5	0.07	0.60	<1.5	0.04		41.7	0.50	0.00	1.00	1.7	1.00	44.5	0.00	100x	1.7					0.46
T.O.N	mg/l N		NAC		1.15	1.2	1.2	1.08	0.87	0.63	0.61	0.31	0.34	0.22	0.56	0.98	1.26	1.03	1.23	1.32	0.86	0.59	0.71	0.44	0.26	0.18	0.28	0.46
Total S Solids	mg/l								-											_	4				1	1		-
Uranium	μg/l	1							<u> </u>								1				12 20.							1
Vanadium	μg/l				5.7	12.7	1	4.3	5.3	3.7	11.0						1			O	~					1	13.3	1
Zinc	μg/l		100									6.3	7.9	7.3	33.9	20.9	7.8	27.8	5.6	7.9	7.7	11.7	30.6	9.8	9.8			

															ВО	REHOLE	BH6A		ali	Palifi								
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######				#######			#######	#######	#######	07-Aug-13	17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity	mg/l CaCO3							166										,	o ex	182								
Aluminium	ua/l	200	200	150				<5	<5	<5	<5	<5	<5	<5	7.8	<5	<5	19 🧬	A A D	8.8	<5	25.1	<5	<5		5.5	<10	<10
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	< 0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	€0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.08	0.03	< 0.020	0.022
Antimony	ug/l	5						< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	\$0.5	\$	<0.5	< 0.5	< 0.5	<0.5	< 0.5		<0.5	<1	<1
Arsenic	ug/l		10	7.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.50		<0.5	< 0.5	<0.5	<0.5	<0.5		<0.5	<1	<1
Barium	ug/l		100		37	38.2	35.1	35.8	39.4	36.1	37.1	40.4	37	36.3	34.8	32.2	40.3	41.5		40.9	35.2	33.7	36	36		36	38.5	39.5
Beryllium	ug/l							< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	0.5		<0.5	< 0.5	< 0.5	< 0.5	< 0.5		<0.5	<1	<1
B.O.D.	mg/l O2																8	7										
Boron	μg/l	1000	1000	750	63.4	65.6	63.1	64.3	65.1	69.4	46.9	54	53.8	63.4	53.7	52.1	45.6	45.6		24.9	27.1	34.9	42.3	42.3		44	49.4	55.9
Cadmium	μg/l	5	5	3.75	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	€0.1	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1
Calcium	mg/I Ca		200		66.88	73.27	66.64	68.28	72.05	66.73	71.45	63.68	65.72	72.07	65.77	61.46	63.29	63.76		70.98	67.47	70.84	69.16	69.16		66.69	66.58	64.84
C.O.D.	mg/I O2															٥٩	Y											
Chloride	mg/l Cl	250	30	187.5	36	33	32	35	38	40	22	23	25	25	22	24	16	16	15	14	16	17	23	23		27	38	44
Chromium	μg/l	50	30	37.5	<0.5	0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.9	0.8	0.5	<0.5	1		0.9	0.8	0.7	1	1		1.2	<1	1.8
Cobalt	μg/l							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<1	<1
Coliform Bacteria	(No/100 ml)	0						172		=00	450				150			101	404	13						400	100	10.0
Conductivity	μS/cm @ 25	2500	1000	1875	524	472	462	468	460	523	459	525	465	471	453	445	413	424	431	420	423	415	419	419	611	438	463	485
Copper	μg/l	2000	30	1500	0.6	0.8	1	<0.5	1.4	1.4	0.5	2	<0.5	0.7	1.3	<0.5	1.1	1.6		0.9	0.6	1.3	0.5	0.5		0.7	<1	1.2
Cyanide	mg/l	0.05	10					<0.05 61			70			74			70			<0.05			54			05		
D.O.	% Saturation	0			65						79			74			76			78			54	54		65		
E_ Coli	No/100 ml	0.8	1000					15 0.17												0								
Fluoride	mg/l µg/l	200	200		<10	<10	15.1	<10	10.9	<10	17.1	<10	<10	<10	<10	11.4	17.2	50.7		0.15 29	<10	92.9	<10	<10		<10	15.5	10.1
Iron Lead	μg/I ug/I	25	10	18.75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.3		<0.5	<0.5	2.1	<0.5	<0.5		<0.5	<1	<1
Magnesium	mg/I Mg	25	50	10.75	2.5	2.72	2.44	2.55	2.61	2.52	2.56	2.33	2.47	2.7	2.58	2.43	2.34	2.56		2.96	2.68	2.79	2.65	2.65		2.58	2.76	2.68
Manganese	μg/I	50	50		<1	1.2	<1	1.6	1.1	<1	1.6	<1	<1	<1	1	<1	2.6	8.8		4.5	1.1	17	1.5	1.5		1.6	<5	<5
Mercury	μg/l	1	1	0.75	nm	nm	nm	< 0.05	nm nm	nm		<0.05	nm	nm	nm	nm		nm	nm	nm								
Molybdenum	μg/l		35	0.70				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<1	<1
Nickel	μg/l	20	20	15	0.7	<0.5	0.8	<0.5	0.6	0.6	<0.5	<0.5	<0.5	<0.5	0.6	0.5	2.7	1		0.7	1.3	2.1	0.6	0.6		1.3	1.1	1.5
Nitrite	ma/l N	0.5	0.1	0.375	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	0.007	<0.002	<0.002		<0.002		<0.002	< 0.002	<0.002	<0.002		<0.002	<0.002		0.002	<0.004	<0.004
o-Phosphate	mg/l P		30					0.02												0.02								
На	-	6.5 - 9.5			7.6	7.6	7.6	7.6	7.7	7.7	7.5	8.1	7.3	7.6	7.1	7.2	6.9	7.4	7.4	7.6	7.6	7.6	7.6	7.6	7.3	7.6	7.6	7.4
Phenol	mg/l		0.0005		<0.002	nm	<0.002	< 0.025	< 0.002	< 0.025	< 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	nm
Potassium	mg/l		5		0.92	0.83	0.97	0.84	0.97	1.02	0.81	0.85	0.88	1.25	0.84	0.75	0.86	0.79		1.19	1.23	0.81	1.3			1.11	1.54	1.41
Sampling Depth	m				29.3	29	29	29.1	29.3	29.5	29.3	29	28.8	29.2	27.8	29	27.5	27.3	26.8	27.8	28.4	28.8	29.6	29.6	27.6	28.6	29.2	28.7
Selenium	μg/l	10						<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5		<0.5	<0.5	< 0.5	<0.5	< 0.5		< 0.5	<1	<1
Silver	μg/l							<0.5	nm nm	nm		nm																
Sodium	mg/l	200	150	150	24.14	21.83	22.78	22.93	25.19	25.13	17.59	18.54	19.5	22.7	19.74	18	15.25	16.09		11.91	11.86	14.56	15.87	15.87		16.44	18.56	19.86
Strontium	μg/l							90.71	95.41	95.13	93.2	90.67	92.9	88.25	86.1	75.96	83.88	90		92.43	88.59	92.25	88.38	88.38		93.63	89.41	91.79
Sulphate	mg/l SO4	250	200	187.5				19.5												11.6								
Suspended Solids	mg/l																											
Temp	°C				11	11.4	12	12.8	12.7	12.7	15.6	14	12	14.8	10.6	10.4	9.4	10.2	9.6	10.5	10.4	10.6	13.8	13.8	14.8	11	10	8.3
Thallium	μg/l							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<1	<1
Time sampled		1			10:35	11:10	10:30	0.4375		0.44444	09:50	10:15	10:20	10:35	10:15	10:30	10:40	10:30	10:45	10:00	10:50	10:25	11:20	11:20	12:30	11:20	12:10	10:45
Tin (μg/l)	μg/l							<1	<1	<1	<1	<1	<1	<1	<1	<1	nm	nm		nm		1	L					
T.O.C.	mg/l	NAC			43.4			41.3	0.70		5			<1.5		L	43.7	l		<1.5			<1.5	<1.5		2.5		
T.O.N	mg/l N	1	NAC		0.9	1.1	0.98	0.73	0.73	0.73	1.11	1.19	0.96	1.15	0.86	1.1	0.86	1.1	1.12	1.11	1.25	1.04	0.78	0.78		1.51	0.59	0.3
Total S Solids	mg/l	1						0.00	0.44	0.4	0.47	0.40	0.00	0.44	0.00	0.04	0.44	0.40			0.00	0.47	0.00	0.00		0.44		
Uranium	μg/l	1						0.38	0.44	0.4	0.47	0.42	0.38	0.41	0.36	0.34	0.41	0.42		0.4	0.39	0.47	0.39	0.39		0.44	<1	<1
Vanadium	μg/l	1	400		110	40.7		<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.54	<0.5	<0.5	0.51	< 0.5		<0.5	<0.5	<0.5	<0.5	<0.5		0.52	<1	<1
Zinc	μg/l	1	100		11.9	12.7	11.4	7.3	9.8	10.5	10.2	10.3	4.4	3.2	19.4	4.4	22.4	29.7		30.6	8.6	13.6	4.4	4.4		18.7	29.7	17.2

															BOR	REHOLE E	RH7A											
Date Collected		DWR	IGV	2010 GW Regs	#######	######	###### #	*######	#######	######	######	######	#######	#######				#######	######	#######	######	#######	#######	28-Aug-07	26-Sep-07	24-Oct-07	28-Nov-07	18-Dec-07
Alkalinity	mg/l CaCO3							102												166								
Aluminium	ug/l	200	200	150																								
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	0.05	0.03	0.03	< 0.03	2	0.03	< 0.03	0.03	< 0.03	0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.08	< 0.03	0.04	< 0.03	0.09	0.04	< 0.03	0.05	< 0.03
Antimony	ug/l	5																										
Arsenic	ug/l		10	7.5																								
Barium	ug/l		100		<50			<50			<50			66.7	<50		<50			<50		<50	<50			<50		
Beryllium	ug/l																											
B.O.D.	mg/I O2																											
Boron	μg/l	1000	1000	750				<50												52.2								
Cadmium	μg/l	5	5	3.75	<0.10			<0.10			<0.10			0.9	<0.10		<0.10			<0.10		<0.10	<0.10			0.2		
Calcium	mg/I Ca		200					82.67												87.90								
C.O.D.	mg/I O2																											
Chloride	mg/l Cl	250	30	187.5	37			31			32			19	22		19			21		34	25			77		
Chromium	μg/l	50	30	37.5	11.6			9			6.5			7.8	6.5		5.9			4.2		5.9	5.0			18.1		
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	μS/cm @ 25	2500	1000	1875	580	556	566	620	649	941	659	745	642	574	722	658	649	617	627	625	815	624	577	535	539	632	754	632
Copper	μg/l	2000	30	1500				7												<1								
Cyanide	mg/l	0.05	10					< 0.05												< 0.05								
D.O.	% Saturation				95			98			104			100			91			96			109			65		
E_ Coli	No/100 ml	0						0																				
Fluoride	mg/l	8.0	1000					0.23												0.180								
Iron	μg/l	200	200		128.8			499			161.6			370.3			167.9			208.6		191.5	189.0			87.0		
Lead	μg/l	25	10	18.75	3.8			2.4			3.3			3.4	<1		<1			<1		<1	<1			<1		
Magnesium	mg/l Mg		50					9.74												9.50								
Manganese	μg/l	50	50		59.5			40.7			35.5			493.4	47.4		24.0			14.9		128.1	65.6			51.2		
Mercury	μg/l	1	1	0.75				<0.10												<0.10								
Molybdenum	μg/l		35																									
Nickel	μg/l	20	20	15	3.4			4.4			3			15.2	2.2		2.3			5.6		3.5	2.5			2.5		
Nitrite	mg/l N	0.5	0.1 30	0.375	0.003			<0.003			<0.003			<0.003	0.008		0.004			<0.003		nm	<0.003			0.009		
o-Phosphate	mg/l P	05.05	30		7.0	0.4			7.0	7.0	_	7.0	7.0		7.0	0.4	0.0	7.0	7.0		0.0	0.0	7.0	7.0	7.0	0.0	7.4	0.7
pH	0	6.5 - 9.5	0.0005		7.6 0.021	8.1	8	8.1 <0.001	7.9	7.8	0.01	7.9	7.9	<0.001	7.8	8.1	8.0 0.183	7.8	7.9	<0.001	8.2	8.0	7.9	7.8	7.8	8.2 <0.01	7.1	8.7
Phenol Potassium	mg/l mg/l		5		31.65			17.87			17.69			14.91	12.34		6.32			7.67		24.24	<0.01			107.29		
			<u> </u>		14.2	14.2	14.1	14.1	14.2	14.2	14.1	14.2	14.8	14.5	14.3	14.1	14.2	14.1	14.3	14.1	14.2	14.2	13.5	14.2	12.9	107.29	12.2	12.2
Sampling Depth Selenium	m ug/l	10			14.2	14.2	14.1	14.1	14.2	14.2	14.1	14.2	14.0	14.5	14.3	14.1	14.2	14.1	14.3	14.1	14.2	14.2	13.5	14.2	12.9	12.4	12.2	12.2
Silver	µg/l µg/l	10			1		+		1					1			1	1	1		 							
Sodium	mg/l	200	150	150	12.23			14.05			14.86			10.83	17.44		11.74			13.35		11.14	11.29			21.01		
Strontium	µg/l	200	130	130	12.23			14.00	1		14.00			10.03	17.44		11.74	1		13.33	 	11.14	11.29			21.01		
Sulphate	mg/I SO4	250	200	187.5				143.9	I					I			1	 	 	144.1								
Suspended Solids	mg/l	200	200	107.0	1			.40.0	1					1			1	1		177.1	l							1
Temp	°C				9.8	6	6	12.1	14	13	18.1	14	12	13.2	10	8	9.5	11.0	10.0	15.2	15.0	15.0	16.9	14.0	10.0	12.6	13	11
Thallium	µg/l				0.0	-		14.1	17	10	10.1	17	12	10.2	10	Ü	0.0	11.0	10.0	10.2	10.0	10.0	10.0	17.0	10.0	12.0	10	- ''
Time sampled	יש"				1			12.45	13	13.1	13.2	13	13.05	12.55	13	13	12.50	13.10	12.55	13.00	13.00	12.45	12.45	13.10	12.50	12.45	12	13.4
Tin (µg/l)	μg/l				1			.2.70	10	10.1	10.2	10	10.00	12.00	10	10	12.00	10.10	12.00	10.00	10.00	12.40	12.70	10.10	12.00	12.70	12	10.4
T.O.C.	mg/l	NAC			29.3			3.1	1		4.1			2.7	4.1		3.4	1		3.1	l	.150	3.9			2.2		1
T.O.N	mg/l N		NAC		0.59			0.36	1		0.31			0.57	0.12		0.12	1		0.13		0.24	0.26			0.82		
Total S Solids	mg/l				0.00			3.00	1		0.01			0.07	0		0	1		00	× ×	\$	0.20			0.02		
Uranium	μg/l								1					1				1			10,							
Vanadium	μg/l								1					1				1		14	(0)							
Zinc	μg/l		100		7.9			10.8	1		12.2			25.6	5		7.6	1		ENT	('D')	5.6				5.7		
	II.o.,	1			1 -				I.	1	1	1	1	1	1	1	1	1	1	8 1 K	,		1	1	1		I.	

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															BOR	REHOLE E	ЗН7А		100	ited								
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######	#######	#######	#######	#######	####### 3	######	#######	######	#######	#######	#######	#######	******	#######	#######	#######	18-Aug-09	29-Sep-09	20-Oct-09	17-Nov-09	08-Dec-09
Alkalinity	mg/I CaCO3			•				89											07.60	71								
Aluminium	ug/l	200	200	150														100	200									
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	0.04	0.04	0.03	0.03	0.03	< 0.03	0.04	0.04	< 0.03	0.04	0.04	0.03	< 0.03	<0.03	√₹0.03	0.03	0.03	< 0.03	< 0.03	< 0.03	0.03	1.21	< 0.03	10.37
Antimony	ug/l	5	•															Q 0	7									
Arsenic	ug/l		10	7.5													•	10:10										
Barium	ug/l		100		<50			<50			<50			<50			<50.	1,00		<50			62.3			<50		
Beryllium	ug/l																₹ 0′	TEL										
B.O.D.	mg/l O2																70	ý ,										
Boron	μg/l	1000	1000	750				<50									ىن ي	,		<50								
Cadmium	μg/l	5	5	3.75	<0.10			<0.10			0.2			<0.10			0.10			0.1			0.1			0.1		1
Calcium	mg/l Ca	Ť	200	00	40.10			48.62			0.2			40.10			X 3.120			31.19			0.1			0.1		
C.O.D.	mg/I O2		200					10.02								ي	*			01.10								1
Chloride	mg/I CI	250	30	187.5	38			59			91			22		2000	23			55			11			44		+
Chromium	μg/l	50	30	37.5	10.1			14.7			25.1			5.1		CO	7.2			16.4			6.7			16.6		1
Cobalt	μg/l	- 50		07.0	10.1			14.7			20.1			0.1			7.2			10.4			0.7			10.0		
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	µS/cm @ 25	2500	1000	1875	543	585	691	633	734	741	761	661	617	513	475	452	465	481	484	560	537	538	653	669	642	553	621	1027
Copper	μg/l	2000	30	1500				5.1												2.1								
Cyanide	mg/l	0.05	10					< 0.05												<0.01								
D.O.	% Saturation				87			76			58			93			90			87			nm	56		83		
E_ Coli	No/100 ml	0						0																nm				
Fluoride	mg/l	0.8	1000					0.41												0.48								
Iron	μg/l	200	200		95.7			244.7			<50			149.9			102.3			65.8			76.7			<50		
Lead	μg/l	25	10	18.75	<1			4.1			<1			<1			<1			1			3.2			<1		
Magnesium	mg/l Mg		50					5.14												3.41								
Manganese	μg/l	50	50		8.7			99.6			13.2			45.3			26.3			13.2			57.4			2.1		
Mercury	μg/l	1	1	0.75				<0.10												<0.1								
Molybdenum	μg/l		35																									
Nickel	μg/l	20	20	15	<1			2.9			<1			<1			<1			1.1			2.7			<1		
Nitrite	mg/I N	0.5	0.1	0.375	0.005			0.007			0.004			0.004			<0.002			< 0.002			< 0.002			0.029		
o-Phosphate	mg/I P		30	*****				0.03									<0.02			0.03						0.020		
pH		6.5 - 9.5			8.2	8.1	8.2	8.3	9.7	9.9	10.4	8.6	8	7.9	7.9	7.3	8	8	7.7	8.8	8.2	8.1	7.1	7.1	7.1	8.3	7.0	7.0
Phenol	mg/l	0.0	0.0005		0.02			<0.01			<0.01		-	0.03			<0.01			<0.002			<0.025			<0.015		
Potassium	mg/l		5		38.91			79.42			145.08			12.12			14.54	1		77.66			2.52			96.02		
Sampling Depth	m				12.2	12.2	12.2	12.8	12.2	12	12	12.2	12.2	nm	9	9.1	9.1	12.1	11.2	12.1	11.6	11.2	12	12.5	11.9	9.1	9.8	nm
Selenium	μg/l	10														0	7.2							12.5	11.5	J.1	3.0	
Silver	μg/l				1												1	1										
Sodium	mg/l	200	150	150	13.59			15.05		l	22.58			10.3			9.68	1		15.74		l	10.28			15.49		
Strontium	μg/l	_00	.50	.50	. 5.55			.0.00			00			. 5.5			5.00			.0.74			10.20			15.45		1
Sulphate	mg/l SO4	250	200	187.5	+			96.7		l							1	1		85.9		l						
Suspended Solids	mg/l	200	200	107.0	+			30.7		-							 	 		00.0		-						
Temp	°C				9.4	11	12	11	nm	13.6	14.9	15	14	9.1	11	10	6.5	13	11	16	12.8	13	16	14.1	12	11.0	10.5	10.2
Thallium	μg/l				3.4	- ' '	12	- ' '	1411	13.0	1-4.5	10	1-7	5.1	- ''	10	0.5	13	- 11	10	12.0	13	10	14.1	12	11.0	10.3	10.2
Time sampled	ra"	+			nt	13.1	13.1	13.15	12.5	13	13.2	12.5	12.45	12.4	13.05	12.2	12.45	14.35	13	13	12.5	12.55	13	13	12.45	12.20	11.35	12.35
Tin (μg/I)	μg/l																											
T.O.C.	mg/l	NAC			2.2			2.2			1.5			2.2			2.6			1.8			6.6			<3.0		
T.O.N	mg/l N		NAC		0.33			0.71			1.29			0.24			0.32	1		0.53			0.93			5.77		İ
Total S Solids	mg/l		-															1										İ
Uranium	μg/l				1												1											
Vanadium	μg/l				1												1	1										
Zinc	μg/l	1	100		5.6			4.7			3.7			9.2			8.2	1		9.5			12			2.5		
	ייטיו		100		0.0		1				U			J.2		1	0.2	1	1	0.0			1 14			2.3		

															BOR	REHOLE E	BH7A											
Date Collected	1	DWR	IGV	2010 GW Regs	######	######	#######	#######	######	#######	#######	#######	######	#######				######	#######	#######	#######	#######	#######	09-Aug-11	06-Sep-11	04-Oct-11	08-Nov-11	13-Dec-1
Alkalinity	mg/I CaCO3			_				144												103								
Aluminium	ug/l	200	200	150																								
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	7.47	4.75	2.69	< 0.03	1.82	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Antimony	ug/l	5																										
Arsenic	ug/l		10	7.5																								
Barium	ug/l		100		43			28.3			28.7			64.8				31.0		27.8			58.8			22.6		
Beryllium	ug/l																											
B.O.D.	mg/l O2																											
Boron	μg/l	1000	1000	750				50.3												64.5								
Cadmium	μg/l	5	5	3.75	0.3			<0.1			<0.1			<0.1				<1		< 0.1			<0.1			<0.1		
Calcium	mg/l Ca		200					73.63												77.58								
C.O.D.	mg/l O2																											
Chloride	mg/l Cl	250	30	187.5	64			22			23			14				18		31			16			31		
Chromium	μg/l	50	30	37.5	1.9			4			7.9			0.6				<5		10.2			<0.5			10		
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	µS/cm @ 25	2500	1000	1875	939	809	733	488	664	564	413	655		664	554	953	686	505	715	747	708	593	716	613	627	575	832	741
Copper	μg/l	2000	30	1500				2												0.9								
Cyanide	mg/l	0.05	10					< 0.05												< 0.05								
D.O.	% Saturation				89			105			102			54				95		101			58			87		
E Coli	No/100 ml	0						9												nm								
Fluoride	mg/l	0.8	1000					0.2												0.21								
Iron	μg/l	200	200		<50			19.2			25.8			32.6				<100		<10			17.6			10.6		
Lead	μg/l	25	10	18.75	<1			<1			0.8			1.4				<5		< 0.5			< 0.5			< 0.5		
Magnesium	mg/l Mg		50					9.41												8.92								
Manganese	μg/l	50	50		212			14.1			7.1			23.1				<10		<1			2.5			1.3		
Mercury	μg/l	1	1	0.75				<0.1												<0.05								
Molybdenum	μg/l		35																									
Nickel	μg/l	20	20	15	16.2			<1			2.3			1.0				<5		1			<0.5			< 0.5		
Nitrite	mg/l N	0.5	0.1	0.375	0.005			< 0.002			< 0.002			< 0.002		< 0.002		< 0.002		< 0.002			< 0.002			< 0.002		
o-Phosphate	mg/I P		30					0.02												<0.02								
Hα		6.5 - 9.5			7.2	7.2	7.2	7.2	7.1	8.2	7.7	7.1		7.2	8.0	7.6	7.2	8.5	7.2	7.9	7.2	8.2	7.1	10	9.7	8.3	8.7	9.5
Phenol	mg/l		0.0005		< 0.015			<0.015			<0.025			<0.025		< 0.025		< 0.025		0.02			<0.008			< 0.016		
Potassium	mg/l		5		9.15			9.01			14.16			3.06				7.19		22.6			2.43			48.99		
Sampling Depth	m				9.2	8.4	9.5	9	10	10.1	10.1	9.0	10.0	nm	9.5	10.0	9.1	7.0	12.0	9.2	8.1	11.4	11.7	9.1	12.5	13.3	8.1	9.3
Selenium	μg/l	10																										
Silver	μg/l																											
Sodium	mg/l	200	150	150	32.72			9.85			8.65			11.20				9.45		11.25			9.08	1		11.37		
Strontium	μg/l										1						1											
Sulphate	mg/l SO4	250	200	187.5				85.2												99.3				1				
Suspended Solids	mg/l										1						1											
Temp	°C				6.8	9.4	11	15.1	12	12.5	20.0	13.0	16.7	11.1	9.6	13.4	11.0	8.4	10.5	12.6	14	13.3	12.9	12	13.1	13.8	12.6	11.4
Thallium	μg/l																											
Time sampled	. •				12.3	13	12.45	13.05	12.45	12.55	12.00	12.45	13.30	nt	17:00	12:15	12:45	12.55	12:55	13:00	13:05	13:050	12:50	15:00	14:40	13:00	13:30	15:10
Tin (μg/l)	μg/l										1					t i	1					.15		1	<u> </u>			
T.O.C.	mg/l	NAC			4.8			2.4			1.7			3.7				4.2		22.1		O .	4.9	1		28		
T.O.N	mg/l N		NAC		5.9			0.15			0.35			1.79		2.68		<0.08		0.36	- X	D-	2.53	1		0.25		
Total S Solids	mg/l	1									1										1 O.							
Uranium	μg/l																			14	all			1				
Vanadium	μg/l	1			1						l						1			ODY.	K .00"			1		1		
Zinc	μg/l	1	100		11.3			3			89.9			7.8				33.9		252.5	,		5.3			6.6		
	IF#"	1		l .	12.3	1	1 1		1	-		-	1	, ,,,		1	-	33.3		3000		1	3.3	1	1	0.0		1

															BOF	REHOLE E	ВН7А			Juli								
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######		#######	#######	#######	#######	######	#######	#######	#######	#######	#######	######################################	#######	#######	#######	#######	07-Aug-13	17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity	mg/I CaCO3							284										100	30	140							Į.	
Aluminium	ug/l	200	200	150				<5			5.3			8			nm	-00	MI	14.6			29.4			59.5	J	
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	< 0.03	< 0.03	0.03	2	< 0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.03	nm	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.06	< 0.020	< 0.020
Antimony	ug/l	5						< 0.5			< 0.5			0.59			nm 😘	10 10		0.58			0.95			1.16		
Arsenic	ug/l		10	7.5				< 0.5			6.86			8.74			nm	1.00		8.74			44.61			47.05		
Barium	ug/l		100		8.2			14.7			37.2			31			nm .	7		32.6			10.3			8.4		
Beryllium	ug/l							< 0.5			< 0.5			<0.5			nm o	Κ,		<0.5			<0.5			< 0.5		
B.O.D.	mg/l O2																٧ و											
Boron	μg/l	1000	1000	750	28.7			95.2			66.1			66.7			Gm			38.8			26.2			33.6		
Cadmium	μg/l	5	5	3.75	<0.1			0.1			<0.1			<0.1			nm			<0.1			0.2			0.1		
Calcium	mg/l Ca	-	200	****	14.36			85.16			79.24			56.18		چ دو	nm			58.95			13.39			12.16		
C.O.D.	mg/I O2															~0P*												
Chloride	mg/l Cl	250	30	187.5	68			46			16			34		\circ	nm			34			67			60		
Chromium	μg/l	50	30	37.5	22.1			4.9			4.7			11			nm			11.7			24.7			24.6		
Cobalt	μg/l	- 00		01.0				<0.5			<0.5			<0.5			nm			<0.5			<0.5			<0.5	+	
Coliform Bacteria	(No/100 ml)	0						>2420			10.0			40.0						41			40.0			10.0		
Conductivity	uS/cm @ 25	2500	1000	1875	725	500	621	700	532	476	553	491	465	592	537	551	nm	578	577	571	561	565	627	621	606	595	451	454
Copper	μg/l	2000	30	1500	1.4	300	021	0.7	002		1.6	.0.	100	2	001	001	nm	0.0	0	1.9	001	000	1	02.	000	1.4		
Cyanide	mg/l	0.05	10	1000	2.7			<0.05			1.0									<0.05						17	 	
D.O.	% Saturation	0.03	10		57			29			102			79			nm			90			50			57		
E Coli	No/100 ml	0			3/			250			102			19			11111			0			30			31		
Fluoride	mg/l	0.8	1000					< 0.150												0.2								
Iron	µg/l	200	200		<10			<10			<10			<10			nm			20.7			<10			<10		
Lead		25	10	18.75	<0.5			<0.5			<0.5			<0.5			nm			<0.5			<0.5			<0.5		
Magnesium	μg/l mg/l Mg	25	50	10./3	1.83			12.19			11.29			9.47			nm			7.53			1.59			2.1		
	µg/I	50	50		1.83			55.9			1.8			9.47 <1			nm			1.4			<1			<1		
Manganese		1	1	0.75				<0.05												0.1								
Mercury	μg/l	1	35	0.75	nm			<0.05			nm 2.7			nm			nm			18.8			nm 63.9			nm 70	ļ	
Molybdenum Nickel	μg/l	20	20	15	0.9			4.7			<0.5			14.5 <0.5			nm			2.6			1.3			70	ļ	
	μg/l			0.375				0.012			<0.002						nm									0.000		
Nitrite	mg/l N	0.5	0.1	0.375	<0.002						<0.002			<0.002			nm			<0.002			<0.002			<0.002	ļ	
o-Phosphate	mg/l P		30					0.04												<0.02								
рн		6.5 - 9.5			9.4	7.4	8.9	7.2	8.6	8.1	7.6	7.7	7.6	7.7	7.4	7.4	nm	7.5	7.6	7.9	8	7.9	9.1	9.5	9.7	9.5	7.8	7.6
Phenol	mg/l		0.0005		<0.002			<0.025			<0.002			<0.002			nm			<0.002			<0.002			<0.002		
Potassium	mg/l		5		126.67			4.8			12.14			48.65			nm			45.55			124.56	40.0		113.3	10.0	
Sampling Depth	m				7.5	7.6	7.3	7.4	9.1	8.2	7.9	9.2	9.2	9.2	9	9.7	nm	6	5.4	6.8	8.7	9.2	9.3	10.2	13.1	9.8	10.3	9.1
Selenium	μg/l	10				-	-	<0.5			73.5			72.7			nm	-	-	71.8		-	109			100		\vdash
Silver	μg/l					-	-	<0.5			nm			nm			nm	-	-	nm		-	40.00			10.00		\vdash
Sodium	mg/l	200	150	150	20.29	ļ	l	22.02			9.89			15.39			nm	ļ	1	13.55		ļ	18.09			16.66		
Strontium	μg/l				1			128.15			294.76			163.61			nm			218.29			267.75			47.14		
Sulphate	mg/l SO4	250	200	187.5	1	ļ	l	17.6									l	ļ	1	82.2		ļ	ļ				ļ!	
Suspended Solids	mg/l °C																					L						
Temp					10.6	11.4	11.7	12.7	13.4	12.6	15.2	18.2	11.5	15.1	10.6	9.8	nm	7.2	6	11	nm	11.4	19.5	14.6	10.6	14	9.6	nm
Thallium	μg/l						ļ	0.38			0.1			<0.1			nm			<0.1			<0.1			<0.1		
Time sampled					13:30	14:10	13:35	0.52778	0.5625	0.51736	13:10	11:55	13:15	12:30	12:00	12:05	13:05	12:10	12:20	12:35	12:10	11:50	12:35	12:00	12:30	12:35	14:25	12:30
Tin (μg/l)	μg/l							<1			<1			<1			nm			nm								
T.O.C.	mg/l	NAC			15.1			49.8			3.2			3.1			nm			2			1.8			2.3		
T.O.N	mg/l N		NAC		0.92			6.02			0.1			0.33			nm			0.32			0.9			0.79		
Total S Solids	mg/l																		1									
Uranium	μg/l							1.08			1.69			1.19			nm			1.23			0.36			0.3		
Vanadium	μg/l							<0.5			1.15			2.71			nm			2.23			41			44.47		
Zinc	µg/l		100		5.5			7.4			6.8			22			nm		1	10.8			1.3			5.8		
	1.0.	1				1	1											1	1			1	1					

															BOE	REHOLE	RH8A											
Date Collected		DWR	IGV	2010 GW Regs	######	######	#######	######	#######	#######	#######	#######	######	#######				######	######	#######	######	#######	#######	28-Aug-07	26-Sep-07	24-Oct-07	28-Nov-07	18-Dec-07
Alkalinity	mg/I CaCO3							216												212				•				
Aluminium	ug/l	200	200	150																								
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03	0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.03	0.03	0.05	< 0.03	< 0.03	< 0.03	< 0.03
Antimony	ug/l	5																										
Arsenic	ug/l		10	7.5																							·	
Barium	ug/l		100		<50			<50			<50			<50	<50		<50			<50		<50	<50			<50		
Beryllium	ug/l																											
B.O.D.	mg/I O2																											
Boron	μg/l	1000	1000	750																<50								
Cadmium	μg/l	5	5	3.75	< 0.10			< 0.10			< 0.10			< 0.10	< 0.10		< 0.10			< 0.10		< 0.10	< 0.10			< 0.10		
Calcium	mg/l Ca		200					83.63												73.33								
C.O.D.	mg/I O2																											
Chloride	mg/I CI	250	30	187.5	17			16			21			41	16		15			13		22	13			41		
Chromium	μg/l	50	30	37.5	6.5			4.8			2.2			<1	18.1		3.8			<1		<1	<1			<1		
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	uS/cm @ 25	2500	1000	1875	491	477	500	480	503	471	465	479	540	519	502	505	497	484	503	454	473	538	484	478	472	483	550	520
Copper	μq/l	2000	30	1500				2.8												<1								
Cyanide	mg/l	0.05	10					< 0.05												< 0.05								
D.O.	% Saturation				88			99			108			79			85			90			98			70		
E Coli	No/100 ml	0						0																				
Fluoride	mg/l	0.8	1000					<0.150												< 0.150								
Iron	μg/l	200	200		81.5			814.3			293.6			315.5	<50		153.7			158.1		354.9	206.4			145.6		
Lead	µg/l	25	10	18.75	<1			2.6			7.3			4.4	<1		10.5			<1		4.0	3.6			<1		
Magnesium	mg/l Mg		50					3.53												2.95			0.0					
Manganese	µg/l	50	50		10.6			23.1			47.5			49.5	<1		11.2			6.5		65.2	28.0			7.9		
Mercury	μg/l	1	1	0.75				<0.10												<0.10						1		
Molybdenum	μg/l	·	35	00				40.10												40.10								
Nickel	µg/l	20	20	15	<1			<1			<1			2.7	<1		<1			3.8		<1	<1			<1		
Nitrite	mg/l N	0.5	0.1	0.375	< 0.003			<0.003			< 0.003			< 0.003	0.007		0.003			< 0.003		nm	< 0.003			0.003		
o-Phosphate	mg/I P		30	*****				<0.02						10.000						<0.02								
рН		6.5 - 9.5			7.1	7.7	7.6	7.5	7.6	7.6	7.7	7.6	7.7	7.6	7.6	7.7	7.5	7.3	7.3	7.5	7.5	7.4	7.5	7.4	7.4	7.6	7.5	7.7
Phenol	mg/l	0.0 0.0	0.0005		0.021	7.0	7.0	0.19	7.0	7.0	0.036	7.0		<0.001	1.0		0.142	7.0	7.0	<0.001	7.0		<0.01			<0.01	7.0	
Potassium	mg/l		5		0.65			<1			<1			1.01	<1		<1			<1		<1	<1			<1		
Sampling Depth	m		-		30	30.1	30.1	29.9	29.5	30	30	30.1	29.8	29.5	30.1	29	29.8	29.3	30.1	29.5	29.8	30.0	28.8	29.1	29.7	29.2	30.1	30.3
Selenium	μg/l	10			- 00	20.1	20.1	_5.0	_5.0			23.1	_5.0		23.1			_0.0	23.1			22.0						23.0
Silver	μg/l																											
Sodium	mg/l	200	150	150	12.22			12.58			11.83			19.83	16.04	1	9.48	1		11.61		11.74	11.72			19.24		
Strontium	μg/l							1						1			1											
Sulphate	mg/l SO4	250	200	187.5				13.4						1		1		1		12.0								
Suspended Solids	mg/l							1.5						1														
Temp	°C				9.8	8	6	13.2	12	13	22.8	14	12	13.7	10	8	9.7	11.0	9.0	13.7	15.0	15.0	17.6	14.0	11.0	10.5	13	11
Thallium	µg/l					-													0.0									
Time sampled	ro.							11.15	11.25	11.4	12.1	11.3	11.2	11.1	11.3	11.4	11.40	11.20	11.30	11.30	11.20	11.45	11.50	11.25	11.35	11.35	9.35	11.5
Tin (µg/I)	µg/l		1		1				5												0	ري.		20			0.00	
T.O.C.	mg/l	NAC	1		91.6			<1.5			<1.5			<1.5	<1.5	1	<1.5	l		<1.5		. 1150	2.1	†	†	1.6		
T.O.N	mg/l N	5	NAC		0.69			0.59			0.45			0.52	0.39	1	0.34	l		0.20		e)t.02	0.57	†	†	0.33		
Total S Solids	mg/l				0.00			0.00			0.10			0.02	0.00	1	0.07	l		0.20	3	35	0.0.	†	†	0.00		
Uranium	μg/l		 		+		1	1		l	-	l	-	1	-	1	1	1			10)		l			1		
Vanadium	μg/l						1													14	(0)							
Zinc	μg/l		100		3.6		1	5		l	4.4	l		4.7	<1	1	1135.9			EXT	, Or	2.9	l	27.2	7.5	2.8		
	ILD.	_1				1	1			1		1	1			1				05 3 K	3		1					

				•		•								•						05 x X	3.							-
																			Š	ited								
															BOF	REHOLE E	3H8A		100	130								
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######	#######	#######	#######	#######	####### #	###### #	######	#######	#######	#######	#######	#######		#######	#######	#######	18-Aug-09	29-Sep-09	20-Oct-09	17-Nov-09	08-Dec-09
Alkalinity	mg/l CaCO3			•				196											07.10	170								1
Aluminium	ug/l	200	200	150														i i) _e>									1
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03	0.07	0.04	< 0.03	< 0.03	0.03	< 0.03	< 0.03	<0,03	₹0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03	< 0.03
Antimony	ug/l	5																2 C	5									
Arsenic	ug/l		10	7.5													**	10.70										
Barium	ug/l		100		<50			<50			<50			<50			<50	1.88		<50			<50			<50		
Beryllium	ug/l																₹	1										
B.O.D.	mg/l O2																-0	Κ,										
Boron	μg/l	1000	1000	750				<50									80			65.6								
Cadmium	μg/l	5	5	3.75	<0.10			<0.10			<0.10			<0.10			0.10			<0.1			< 0.1			< 0.1		
Calcium	mg/l Ca		200					83.58									10			74.96								
C.O.D.	mg/l O2															25%	1											
Chloride	mg/l Cl	250	30	187.5	13			31			64			21		CO1	19			40			34			49		
Chromium	μg/l	50	30	37.5	<1			<1		_	<1			<1	_	Ü	<1			1.1			8.4			2.1		
Cobalt	μg/l									_					_													
Coliform Bacteria	(No/100 ml)	0																									1	
Conductivity	μS/cm @ 25	2500	1000	1875	526	495	489	481	521	566	570	549	534	522	498	528	470	493	474	493	551	504	507	508	518	516	588	584
Copper	μg/l	2000	30	1500				<1												<1							1	
Cyanide	mg/l	0.05	10					< 0.05												<0.01								
D.O.	% Saturation				82			91			81			80			89			82			nm	91		48	1	
E_ Coli	No/100 ml	0						2																2				
Fluoride	mg/l	0.8	1000					<0.150												0.18								
Iron	μg/l	200	200		164.6			99.2			96.7			255.3			138			88.7			102.7			<50		
Lead	μg/l	25	10	18.75	2.3			<1			<1			7.8			2.6			2.3			1.3			<1		
Magnesium	mg/l Mg		50					2.91												2.51								
Manganese	μg/l	50	50		11.4			10.4			6.1			33.3			13.7			7			19.6			4.1		
Mercury	μg/l	1	1	0.75				<0.10												<0.1							↓	↓
Molybdenum	μg/l		35																								↓	_
Nickel	μg/l	20	20	15	<1			<1			<1			<1			<1			<1			1.6			1.3	↓	_
Nitrite	mg/l N	0.5	0.1	0.375	0.008			0.004			0.003			<0.003			<0.002			<0.002			<0.002			<0.002	├	
o-Phosphate	mg/l P	05.05	30		7.0	7.1	7.0	<0.02			7.4	7.4	7.0	7.0		0.0	<0.02		2.0	<0.02	7.0							
pH		6.5 - 9.5	0.0005		7.3	7.4	7.3	7.5	7.7	7.4	7.4	7.4	7.3	7.3	7.4	8.2	7.4	7.5	7.6	7.7	7.3	7.7	7.4	7.4	7.4	7.5	7.3	7.3
Phenol	mg/l		0.0005 5		0.02			<0.01			<0.01			0.03			0.01			<0.002			<0.025			<0.015		-
Potassium Samulia a Danth	mg/l		5		1.36 29.7	20.0	20.0	<1	20.5	20.7	<1	20.2	20	<1	20.4	20.2	<1	20	20.5	<1	20.4	20.4	<1	20.2	20.2	<1	20.4	20.4
Sampling Depth Selenium	m ug/l	10			29.7	29.9	28.9	29.7	29.5	29.7	29.6	29.3	29	29.4	29.1	29.2	29.1	29	29.5	29	29.1	28.4	29.5	29.3	29.3	29.5	28.4	28.1
Silver	μg/l	10			1	1	1	-			-						1	1		 	-		-	1		l		+
Sodium	μg/l mg/l	200	150	150	15.32	1	1	13.52			30.19			13.95			13.49	1		23.4	-		20.11	1		24.43		+
Strontium	μg/l	200	130	130	10.02		1	10.02			30.13			10.50			13.43	I		20.4	-		20.11	 		24.43		+
Sulphate	mg/I SO4	250	200	187.5	+		1	15.6			-						I	I		23	-		-	 				+
Suspended Solids	mg/l	200	200	107.0	+		1	10.0			-						I	I		20	-		-	 				+
Temp	°C				6.5	12	11	12	12	15.5	15.7	14	11	9	11	10	6.8	12	11	13	11.2	14	15.5	13.5	11	10.5	10.1	10.5
Thallium	μg/l				0.0	12	- ''	12	12	10.0	10.7	1-7		J		10	0.0	12	- 11	10	11.2	- 1-7	13.3	13.3		10.5	10.1	10.5
Time sampled	rd''	1			nt	11.2	11.4	11.4	11.2	11.3	11.45	11.2	11.35	11.1	11.2	10.35	11.4	11.2	11.4	11.2	11.35	11.15	11.25	11.2	11.15	11.15	9.30	11.20
Tin (µg/I)	μg/l				110	11.2	11.7	11.7	11.2	11.0	11.40	11.2	. 1.00		11.2	10.00	11.7	11.2	11.7	11.2	11.00	11.13	11.23	11.2	11.13	11.13	3.30	11.20
T.O.C.	mg/l	NAC			1.5	1	1	<1.5			<1.5			<1.5			<1.5	1		<1.5	-		<3.0			3.1		
T.O.N	mg/l N		NAC		0.97	1	1	0.65			0.55			1.13			1	1		0.62	-		0.92			0.61		
Total S Solids	mg/l				0.07			0.00			0.00							1		0.02			0.52			0.01		†
Uranium	μg/l				1	1	1	-			-						1	1		l	-		-			 		
Vanadium	μg/l				1	1	1	-			-						1	1		l	-		-			 		
Zinc	μg/l		100		4.3	1	1	<1			3.3		+	14.4			6.1			5.8			3.4			3.2		+
	יישיו	1	100	l .		1	1				0.0			17.7			0.1	1	1	0.0	1		J.7	1		J.2		

															REHOLE BH8A										
Date Collected Alkalinity	mg/I CaCO3	DWR	IGV	2010 GW Regs	######	#######	######	###### 208	#######	#######	#######	####### ##	!#### #####	# ######	####### #####	## ######	204	# ######	#######	###### 09-Au	ug-11 0	06-Sep-11 04-0	Oct-11 0	08-Nov-11	13-Dec-11
Aluminium	ug/l	200	200	150																					
Ammonia Antimony	mg/l N ug/l	0.23 mg/l N 5	0.11 mg/l N	0.175	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03 <0.03	<0.03	<0.03 <0.0	3 <0.03	<0.03 <0.03	<0.03	<0.03	<0.03 <0.	0.03	<0.03 <	<0.03	<0.03	<0.03
Arsenic	ug/l		10	7.5	40.7			10.5			40.0					24.5	- 10			40.7			40.7		
Barium Beryllium	ug/l ug/l		100		19.7			18.6			19.8		21.4			21.5	18			18.7			18.7		
B.O.D. Boron	mg/l O2 μg/l	1000	1000	750				27									28.6								
Cadmium	μg/l	5	5	3.75	<0.1			< 0.1			<0.1		<0.1			<1	<0.1			<0.1			<0.1		
Calcium C.O.D.	mg/I Ca mg/I O2		200					84.82									104.57								
Chloride	mg/l Cl	250 50	30 30	187.5 37.5	19			18			37		36			17	20			48			68		
Chromium Cobalt	μg/l μg/l	50	30	37.5	<1			<1			<0.5		0.8			<5	<0.5			<0.5		,	<0.5		
Coliform Bacteria Conductivity	(No/100 ml) uS/cm @ 25	0 2500	1000	1875	541	484	475	488	479	497	520	513	511	517	504 480	505	535 480	500	506	527 55	56	553	585	605	566
Copper	μg/l	2000	30	1500	3.1	101	5	<1	.,,,	137	320	313	311	31,	301	303	<0.5	300	300	32, 33	50	333	505	003	300
Cyanide D.O.	mg/l % Saturation	0.05	10		82			<0.05 94			80		73			97	<0.05 88			69			45		
E_ Coli Fluoride	No/100 ml mg/l	0 0.8	1000					2 <0.150									nm <0.150								
Iron	μg/l	200	200		<50			<10			21.7		52.6			<100	32.1			<10			<10		
Lead Magnesium	μg/l mg/l Mg	25	10 50	18.75	1.2			<1 3.47			1.3		1.4			<5	0.8 4.46			<0.5		•	<0.5		
Manganese	μg/l	50	50		6.4			5.3			20.7		14.2			15.0	6.9			<1			<1		
Mercury Molybdenum	μg/l μg/l	1	1 35	0.75				<0.1									<0.05								
Nickel	μg/I mg/I N	20 0.5	20 0.1	15 0.375	<1 <0.002			<1 <0.002			<0.5 <0.002		0.9 <0.00	,		<5 <0.002	<0.5 <0.002			1.2 <0.002			1.5 0.002		
o-Phosphate	mg/l P		30	0.373				0.02									<0.02								
pH Phenol	mg/l	6.5 - 9.5	0.0005		7.4 <0.015	7.4	7.5	7.4 <0.015	7.4	7.4	7.4 <0.025	7.6	7.7 <0.02	7.6	7.4 7.4	7.8 <0.025	7.5 7.4 <0.013	7.4	7.6	7.5 7.° <0.006	7.7		7.6 0.016	7.6	7.7
Potassium	mg/l		5		<1			<1	25 -	20 -	0.85	20.5	1.03		20.0	<2.5	0.36		20 -	0.55		- :	2.62	20.7	
Sampling Depth Selenium	m μg/l	10			28.8	29.7	29.6	28.9	29.3	28.8	31.0	29.5	30.0 nm	29.2	29.2 29.1	28.3	28.0 29.2	26.3	29.7	29.8 29	9.8	29.9	29.9	29.6	29.7
Silver Sodium	μg/l mg/l	200	150	150	12.28			12.67			18.76		24.2			13.50	14.95			19.51		2	39.09		
Strontium	μg/l				12.28						18.70		24.20			13.30				19.31		3	55.05		
Sulphate Suspended Solids	mg/l SO4 mg/l	250	200	187.5				12.9									12.6								
Temp	°C				10	10.1	10	13.2	11	13	23.0	10.7	14.1 10.4	9.9	9.6 11.0	9.9	11.7 11.9	15	12	12.3 13	13	14.1	12.3	12.4	6
Thallium Time sampled	μg/l				11.15	11.1	11.15	11.25	11.15	11.15	11.35	11.20	12.35 nt	10:30	10:20 11:1	11.15	11:20 11:25	11:20	11.20*	10:40 10:):50	11:20 1	11:12	11:10	09:20
Tin (μg/l) T.O.C.	μg/l mg/l	NAC			<3.0			<1.5			<1.5		<1.5			2.6	48.5		of the	2			41.3		
T.O.N	mg/l N	IIAC	NAC		2.61			1.31			0.98		1.03			1.25	0.58	Š	RC .	0.39			0.32		
Total S Solids Uranium	mg/l µg/l																A S	His K							
Vanadium Zinc	μg/l		100		5.2			2.5			3.0		12.7			35.2	05°2.9	or.		15.8			5.4		
ZIIIC	μg/l		100		3.2			2.3	1		3.0		12.7			33.2		Y					3.4		
																	- Operation								
Date Collected														ВО	REHOLE BH8A		our quite								
Alkalinity	mall CaCO2	DWR	IGV	2010 GW Regs	######	#######	######		######	######	######	####### ##	#####	BO	REHOLE BH8A	## ######	WHITE CHIE	# ######	#######	###### 07-Au	ug-13 1	17-Sep-13 08-4	Oct-13 1	19-Nov-13	03-Dec-13
Alkalinity Aluminium	mg/l CaCO3	200	200	150				202 <5			<5		<5	#######	####### ##### <5	خاص	######################################			<5			<5		
Aluminium Ammonia	ug/l mg/l N	200 0.23 mg/l N	200	150	<0.03		<0.03	202 <5 <0.03	<0.03	###### <0.03	<5 <0.03		<5 <0.03 <0.0	<0.03	####### ##### <5 <0.03 <0.0	3 20.03	210 <5 <0.03 <0.03			<5 <0.03 <0.	ug-13 1	<0.03 <	<5 :0.03	19-Nov-13 <0.020	03-Dec-13 <0.020
Aluminium Ammonia Antimony Arsenic	ug/l mg/l N ug/l ug/l	200	200 0.11 mg/l N	150	<0.03			202 <5 <0.03 <0.5 <0.5			<5 <0.03 <0.5 <0.5		<0.03 <0.0 <0.5 <0.5 <0.5	<0.03	4 ###### #####	3 40.03 5 11 210	210 <0.03 <0.03 <0.5 0.61			<5 <0.03 <0. <0.5 <0.5		<0.03 <	<5 :0.03 <0.5 <0.5		
Aluminium Ammonia Antimony	ug/l mg/l N ug/l ug/l ug/l	200 0.23 mg/l N	200 0.11 mg/l N	150 0.175				202 <5 <0.03 <0.5			<5 <0.03 <0.5		<5 <0.03 <0.0 <0.5	<0.03	###### ##### <5 <0.03 <0.0	3 60.03 5 17 17 1 11 17	210 <5 <0.03 <0.03 <0.5			<5 <0.03 <0.5		<0.03 <	<5 :0.03 <0.5		
Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D.	ug/l mg/l N ug/l ug/l ug/l ug/l mg/l O2	200 0.23 mg/l N 5	200 0.11 mg/l N 10 100	150 0.175 7.5	<0.03			202 <5 <0.03 <0.5 <0.5 18.9 <0.5			<5 <0.03 <0.5 <0.5 17.3 <0.5		<5 <0.03 <0.0 <0.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.03	####### ###### <0.03 <0.03 <0.0 <0.5 <0.5 <0.6 <0.7 <0.7	3 50.03 5 11 11 11 5 11 11 11				<5 <0.03 <0. <0.5 <0.5 18.4 <0.5		<0.03 <	<5 :0.03 <0.5 <0.5 <0.5 20.9 <0.5		
Aluminium Ammonia Antimony Arsenic Berylium B.O.D. Boron Cadmium	ug/l mg/l N ug/l ug/l ug/l ug/l mg/l O2 µg/l	200 0.23 mg/l N	200 0.11 mg/l N 10 100 1000 5	150 0.175	<0.03 19.8 26.9 <0.1			202 <5 <0.03 <0.5 <0.5 18.9 <0.5 31.8 <0.1			<5 <0.03 <0.5 <0.5 17.3 <0.5 23.7 <0.1		<5 <0.03 <0.0 <0.5 <0.5 17.5 <0.5 28.6 <0.1	<0.03	####### ##### <0.03 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0	33 40.03 3 10.03 3 10.03 3 10.03 3 10.03	210 210 210 210 20.03 <0.03 <0.5 0.61 19.3 <0.5 0.62 20.6 <0.5 <0.5 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65 <0.65			<5 <0.03 <0. <0.5 <0.5 18.4 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		<0.03	<5 :0.03 <0.5 <0.5 20.9 <0.5		
Aluminium Ammonia Antimony Arsenic Berylium B.O.D. Boron Cadmium	ug/l mg/l N ug/l ug/l ug/l ug/l mg/l O2 µg/l	200 0.23 mg/l N 5	200 0.11 mg/l N 10 100	150 0.175 7.5	<0.03			202 <5 <0.03 <0.5 <0.5 18.9 <0.5 31.8			<5 <0.03 <0.5 <0.5 17.3 <0.5		<5 <0.03 <0.0 <0.5 <0.5 17.5 <0.5	<0.03	####################################	33 40.03 3 10.03 3 10.03 3 10.03 3 10.03	210 <0.03 <0.03 <0.5 0.61 19.3 <0.5 20.6			<5 <0.03 <0. <0.5 <0.5 18.4 <0.5		<0.03	<5 :0.03 <0.5 <0.5 20.9 <0.5		
Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. C.O.D.	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 5 1000 5	200 0.11 mg/l N 10 100 1000 5 200	150 0.175 7.5 750 3.75	<0.03 19.8 26.9 <0.1 81.14			202 <5 <0.03 <0.5 <0.5 18.9 <0.5 31.8 <0.1 77.59			<5 <0.03 <0.5 <0.5 17.3 <0.5 23.7 <0.1 79.96		<5 < 5 < 0.03 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.6 < 0.1 < 0.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.	<0.03	####### ##### <5 <0.03 <0.0. <0.0 <0.0	3 40.03	20.03 <0.03 <0.03 <0.05 <0.01 = 19.3 <0.5 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <0.05 <0.05 <0.05			<5 <0.03 <0. <0. <0. <0. <0. <0. <0. <0. <0. <0.		<0.03 <	<5 :0.03 <0.5 <0.5 20.9 <0.5 78.7 <0.1 76.42		
Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I mg/I O2 µg/I µg/I mg/I Ca mg/I C2 mg/I C1 µg/I	200 0.23 mg/l N 5 1000 5 250	200 0.11 mg/l N 10 100 1000 5 200	150 0.175 7.5 750 3.75	<0.03 19.8 26.9 <0.1 81.14			202 <5 <0.03 <0.5 <0.5 18.9 <0.5 31.8 <0.1 77.59 29 <0.5 <0.5			<5 <0.03 <0.5 <0.5 17.3 <0.5 23.7 <0.1 79.96		<5.0.03 <0.00 <0.0.0 <0.0.0 <0.0.0 <0.0.0 <0.0.0 <0.0.0 <0.0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.	<0.03	####################################	3	20.0 20.03 20.03 20.03 20.5 20.61 19.3 20.6 20.6 20.6 20.1 81.62			<5 <0.03 <0.5 <0.5 18.4 <0.5 55.1 <0.1 77.41		<0.03 <	<5 <0.03 <0.5 <0.5 <0.5 20.9 <0.5 78.7 <0.1		
Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Colcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l mg/l O2 µg/l mg/l C2 µg/l mg/l Ca mg/l O2 mg/l Cl µg/l µg/l µg/l (No/100 ml)	200 0.23 mg/l N 5 1000 5 250 50	200 0.11 mg/l N 10 100 1000 5 200	150 0.175 7.5 750 3.75	<0.03 19.8 26.9 <0.1 81.14 17 <0.5		<0.03	202 <5 <0.03 <0.5 18.9 <0.5 31.8 <0.1 77.59 29 <0.5 <0.5	<0.03		<5 <0.03 <0.5 <0.5 17.3 <0.5 23.7 <0.1 79.96 16 <0.5 <0.5	<0.03	<0.03 <0.0 <0.5 <0.5 <0.5 <0.5 <0.6 <0.7 <0.9 <0.9 <0.9 <0.9 <0.9 <0.1 <0.1 <0.2 <0.2 <0.3 <0.4 <0.5 <0.5 <0.6 <0.7 <0.7 <0.8 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0	<0.03		3 2003	20.03 <0.03 <0.03 <0.03 <0.05 <0.04 <0.04 <0.04 <0.04 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <0.05	<0.03	<0.03	<5 <0.03 <0.5 <0.5 <0.5 <0.5 18.4 <0.5 <55.1 <0.1 77.41 53 1.1 <0.5	0.03	<0.03 <	<5 :0.03 <0.5 <0.5 20.9 <0.5 78.7 <0.1 6.42		
Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Colper	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 0 2500 2000	200 0.11 mg/l N 10 100 5 200 30 30 30	150 0.175 7.5 750 3.75 187.5 37.5	<0.03 19.8 26.9 <0.1 81.14	<0.03		202 <5 <0.03 <0.5 <0.5 18.9 <0.5 31.8 <0.1 77.59 29 <0.5 <0.5 40.5 <0.5		<0.03	<5 <0.03 <0.5 <0.5 17.3 <0.5 23.7 <0.1 79.96	<0.03	<0.03 <0.0 <0.5 <0.5 <0.5 <0.5 <0.6 <0.7 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0	<0.03	####### ##### <0.03	3 003	20.6 <0.03 <0.5 <0.03 <0.5 <0.61 19.3 <0.5 20.6 <0.1 81.62 17 1.3 <0.5 16 484 484 40.5 500 488			<5 <0.03 <0.5 <0.5 <0.5 <0.5 18.4 <0.5 <55.1 <0.1 77.41 53 1.1 <0.5		<0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0	<5 :0.03 <0.5 <0.5 <0.5 20.9 <0.5 78.7 <0.1 76.42 55 1.2 <0.5	<0.020	<0.020
Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O.	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 ug/l mg/l O2 mg/l C2 mg/l C2 mg/l C1 µg/l µg/l µg/l µg/l µg/l µg/l (No/100 m!) µS/cm @ 25 µg/l mg/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05	200 0.11 mg/l N 10 100 5 200 30 30	150 0.175 7.5 750 3.75 187.5 37.5	<0.03 19.8 26.9 <0.1 81.14 17 <0.5	<0.03	<0.03	202 <5 <0.03 <0.5 <0.5 18.9 <0.5 31.8 <0.1 77.59 29 <0.5 <0.5 <0.5 <0.5 <0.0 <0.5 <0.0 70 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 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<0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <	<0.03	####### ##### <0.03	3 3033	20.0 20.03 20.03 20.03 20.5 20.61 19.3 20.6 20.6 20.6 40.1 81.62 17 1.3 40.5 16 500 484 40.5 40.5 40.5 40.9 40	<0.03	<0.03	<5 <0.03 <0.5 <0.5 <0.5 <0.5 18.4 <0.5 <0.5 15.1 <0.1 77.41 53 1.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.6 <0.6 <0.7 <0.7 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.8 <0.	0.03	<0.03 < 0.03 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 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Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli	ևց/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 5 1000 5 250 0 2500 0.05	200 0.11 mg/l N 10 1000 5 200 30 30 1000 30	150 0.175 7.5 750 3.75 187.5 37.5	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6	<0.03	<0.03	202 <5 <0.03 <0.5 <0.5 18.9 <0.5 31.8 <0.1 77.59 29 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 15.2 <0.5 15.2 49.3 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 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<0.5 <0.5 483 <0.5	<0.03	<0.03 <0.0 <0.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.6 <0.5 <0.6 <0.1 <0.7 <0.7 <0.8 <0.1 <0.1 <0.2 <0.2 <0.2 <0.2 <0.3 <0.4 <0.5 <0.6 <0.6 <0.6 <0.6 <0.6 <0.6 <0.6 <0.7 <0.8 <0.8 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0	<0.03		3 3033	20.03 <0.5 <0.03 <0.5 <0.03 <0.5 <0.5 <0.03 <0.5 <0.5 <0.5 <0.03 <0.5 <0.5 <0.5 <0.5 <0.03 <0.5 <0.5 <0.03 <0.5 <0.5 <0.03 <0.5 <0.00 <0.0 <0.0 <0.0 <0.0 <0.0 <0.	<0.03	<0.03	<5 <0.03 <0.5 <0.5 <0.5 18.4 <0.5 55.1 <0.1 77.41 53 1.1 <0.5 524 <524 <52 <0.5	0.03	<0.03 < 0.03 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 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Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200	200 0.11 mg/l N 10 100 5 200 30 30 10 1000 1000 200	150 0.175 7.5 7.5 7.5 3.75 187.5 37.5	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 94	<0.03	<0.03	202 <5 <0.03 <0.5 <0.5 <0.5 <0.5 31.8 <0.1 77.59 29 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	<0.03	<0.03	<5 <0.03 <0.5 <0.5 17.3 <0.5 23.7 <0.1 79.96 16 <0.5 <0.5 <0.5	<0.03	 <5. <0.03 <0.0 <0.5 <0.5 <0.5 <0.6 <0.6 <0.7 <0.8 <0.1 <0.2 <0.2 <0.1 <0.5 <0.6 <l></l>	<0.03		505	20.6 <0.03 <0.5 <0.03 <0.5 <0.61 19.3 <0.5 20.6 <0.1 81.62 17 1.3 <0.5 16 500 484 40.5 <0.05 90 0 0 0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0	<0.03	<0.03	<5 <0.03 <0. <0.5 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	0.03	<0.03 <	<5 :0.03 <0.5 <0.5 <0.5 <0.5 <0.6 78.7 <0.1 6.42 55 1.2 <0.5 9.5 49	<0.020	<0.020
Aluminium Ammonia Anmonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli F[uoride Iron Lead Magnesium	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 0 2500 2000 0.05 0 0 0.8 200 25	200 0.11 mg/l N 10 100 5 200 30 30 30 10 1000 200 10 10	150 0.175 7.5 750 3.75 187.5 37.5	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6	<0.03	<0.03	202 <5 <0.03 <0.5 <0.5 <0.5 18.9 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0.0 <0	<0.03	<0.03	<5 <0.03 <0.5 <0.05 <0.5 17.3 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.03	<0.03 <0.03 <0.0 <0.5 <0.5 <0.5 <0.6 <0.6 <0.7 <0.6 <0.7 <0.7 <0.8 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <0.9 <	<0.03	####### ##### <0.03	505	20.6 <0.03 <0.03 <0.5 <0.03 <0.5 <0.61 19.3 <0.5 <0.1 81.62 17 1.3 <0.5 16 500 484 <0.5 <0.05 90 0 0 0.150	<0.03	<0.03	<5 <0.03 <0.5 <0.5 <0.5 <18.4 <0.5 <55.1 <0.1 <77.41 <53 1.1 <0.5 <524 <52 <56 <56	0.03	<0.03 <	<5:0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7	<0.020	<0.020
Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium Beryllium B.O.D. Boron Cadmium Co.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50	200 0.11 mg/l N 10 100 5 200 30 30 10 1000 200 10 50 50	150 0.175 7.5 7.5 750 3.75 187.5 37.5	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 94 <10 <0.5 3.73 <1	<0.03	<0.03	202 <5 <0.03 <0.5 <0.5 <18.9 <0.5 <18.9 <0.5 <1.5 <0.5 <0.5 <1.5 <0.5 <1.5 <0.5 <1.5 <0.5 <1.5 <0.5 <1.5 <0.5 <1.5 <0.5 <1.5 <0.5 <0.5 <1.5 <0.5 <1.5 <0.5 <1.5 <0.5 <1.5 <0.5 <1.5 <0.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1	<0.03	<0.03	<5 <0.03 <0.5 <0.05 <17.3 <0.5 <17.3 <0.5 <20.7 <0.1 79.96 <16 <0.5 <0.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 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Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Magnese Mercury Molybdenum	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1	200 0.11 mg/l N 10 100 5 200 30 30 10 1000 200 10 1000 50 50 1 135	150 0.175 7.5 7.5 7.5 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 94 <10 <0.5 3.73 <1 nm	<0.03	<0.03	202 <5 <0.03 <0.5 <0.5 <0.5 18.9 <0.5 18.9 <0.5 50.5 29 <0.5 152 493 <0.5 152 493 <0.5 <0.05 <10 <0.05 <10 <0.05 <10 <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 <0.05 <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 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	<0.03	<0.03	<5 <0.03 <0.5 <0.5 <0.5 <17.3 <0.5 17.3 <0.6 16 <0.5 <0.5 <0.1 79.96 16 <0.5 <0.5 <0.5 <0.5 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 </td <td><0.03</td> <td> Section Sect</td> <td><0.03</td> <td>######################################</td> <td>505</td> <td>20.6 <0.03 <0.5 <0.03 <0.5 <0.61 19.3 <0.5 20.6 <0.1 81.62 17 1.3 <0.5 16 500 484 40.5 <0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td><0.03</td> <td><0.03</td> <td><5 <0.03 <0.5 <0.5 <0.5 18.4 <0.5 55.1 <0.1 77.41 53 1.1 <0.5 524 <52 <0.5 56 <10 <0.5 3.2 1.4 nm 2</td> <td>0.03</td> <td><0.03 < 0.03 > <td><5.0.03 <0.5 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.</td> <td><0.020</td> <td><0.020</td>	<0.03	Section Sect	<0.03	######################################	505	20.6 <0.03 <0.5 <0.03 <0.5 <0.61 19.3 <0.5 20.6 <0.1 81.62 17 1.3 <0.5 16 500 484 40.5 <0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<0.03	<0.03	<5 <0.03 <0.5 <0.5 <0.5 18.4 <0.5 55.1 <0.1 77.41 53 1.1 <0.5 524 <52 <0.5 56 <10 <0.5 3.2 1.4 nm 2	0.03	<0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0	<5.0.03 <0.5 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	<0.020	<0.020
Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_ Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel	ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 0 2500 0.05 0 0.05 0 1 0 0.3 250 0 1 0 0.3 200 0.5 0 0 250 0 0 0.8 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 0.11 mg/l N 10 100 1000 5 200 30 30 10 1000 200 10 50 50 51 35 20	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 94 <10 <0.5 3.73 -1 nm <0.5	<0.03 413	<0.03	202 <5 60.03 <0.05 <0.05 18.9 <0.5 18.9 <0.5 29 <0.5 <0.5 <0.5 <0.5 <0.5 493 <0.150 <10 <0.150 <10 <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 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	<0.03	<0.03	<5 <0.03 <0.5 <0.05 <0.05 <0.5 <0.05 <0.5 <0.5 <	<0.03	Section Sect	504		505	20.03 <0.03 <0.5 <0.03 <0.5 <0.03 <0.5 <0.03 <0.5 <0.5 <0.03 <0.5 <0.03 <0.5 <0.5 <0.03 <0.5 <0.03 <0.5 <0.03 <0.5 <0.03 <0.5 <0.03 <0.05 <0.03 <0.05 <0.03 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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	<0.03	<0.03	<5 <0.03 <0.5 <0.5 <0.5 18.4 <0.5 55.1 <0.1 77.41 53 1.1 <0.5 524 52 <56 <10 <0.5 <3.2 1.4 nm 2 <0.5 <0.5	0.03	<0.03 <	<5.0.03 <0.5 <0.05 <0.5 <0.5 <0.5 <0.5 <0.6 <0.7 8.7 <0.1 6.42 <0.5 55 1.2 <0.5 549 0.5 17.1 <0.5 3.72 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0	<0.020	<0.020
Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium Beryllium B.O.D. Boron Cadmium Coloium Coloium Coloide Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molydenum Nickel Nitrite O-Phosphate	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1 20 0.5	200 0.11 mg/l N 10 100 5 200 30 30 10 1000 200 10 1000 50 50 1 135	150 0.175 7.5 7.5 7.5 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 <10 <0.5 3.73 <1 nm <<0.5 <0.002	<0.03 413	485	202 <5 60.03 <0.03 <0.5 <0.5 18.9 <0.5 18.9 <0.5 29 <0.5 152 493 <0.5 152 493 <0.5 152 493 <0.5 <0.05 70 18 <0.150 <0.05 3.2 <1 <0.05 <0.5 <0.5 <0.5 3.2 <1 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	472	<0.03 529	<5 <0.03 <0.5 <0.05 <0.5 17.3 <0.5 17.3 <0.5 17.3 <0.5 17.3 <0.5 17.3 <0.1 79.96 <0.1 <0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	476	486 5005 4.0.6 4.0.6 486 5006 4.0.6 4.0.6 486 5006 4.0.6	504		505	20.6	<0.03 491	<0.03 510		228	<0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0	<5.0.03 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	492	497
Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Coloride Chromium Cobalt Colform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite	ևց/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I mg/I O2 μg/I pg/I pg/I pg/I pg/I pg/I pg/I pg/I p	200 0.23 mg/l N 5 1000 5 250 0 2500 0.05 0 0.05 0 1 0 0.3 250 0 1 0 0.3 200 0.5 0 0 250 0 0 0.8 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 0.11 mg/l N 10 100 5 200 30 30 30 10 1000 200 10 1000 200 11 35 20 11 35 20 0.1	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 94 <10 <0.5 3.73 -1 nm <0.5	<0.03 413 7.8	<0.03	202 <5 <0.03 <0.5 <0.5 <0.5 18.9 <0.5 18.9 <0.5 50.5 18.9 <0.5 18.9 <0.5 19.0 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10	<0.03	<0.03	<5 <0.03 <0.5 <0.05 <0.05 <0.5 <0.05 <0.5 <0.5 <	476	Section Sect	504		505	200.6 20.6 20.6 20.6 20.6 20.6 20.6 20.6	<0.03 491 7.4	<0.03		0.03	<0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0	<5.0.03 <0.5 <0.05 <0.5 <0.5 <0.5 <0.5 <0.6 <0.7 8.7 <0.1 6.42 <0.5 55 1.2 <0.5 549 0.5 17.1 <0.5 3.72 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0	<0.020	<0.020
Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Colform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Huoride Iron Manganesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1 20 0.5	200 0.11 mg/l N 100 1000 5 200 30 30 1000 200 1000 200 10 50 50 1 35 20 0.1	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 94 <10 <0.5 3.73 <1 nm <0.5 <0.002 7.4 <0.002 0.63	<0.03 413 7.8	485	202 <5 60.03 <0.05 <0.05 18.9 <0.5 18.9 <0.5 177.59 29 <0.5 <0.5 152 493 <0.15 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.150 <0.70 18 <0.150 <0.70 70 18 <0.150 <0.70 70 18 <0.150 <0.70 70 40.05 70 40.05 70 70 40.05 70 70 40.05 70 70 70 70 70 70 70 70 70 70 70 70 70	472	<0.03 529 7.6	<5 <0.03 <0.5 <0.5 <0.5 17.3 <0.5 23.7 <0.1 79.96 16 <0.5 <0.5 <0.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.5 <10.00 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Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium Beryllium B.O.D. Boron Cadmium Coloit Calcium Co.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 5 1000 5 250 50 0 2500 2000 0.05 0 0.8 200 25 50 1 20 0.5	200 0.11 mg/l N 10 100 5 200 30 30 30 10 1000 200 10 10 50 50 1 35 20 0.11 30	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 <10 <0.5 3.73 <1 nm <0.5 <0.002 7.4 <0.002	<0.03 413 7.8	485	202 <5 60.03 <0.05 <0.05 <0.05 18.9 <0.5 18.9 <0.1 77.59 29 <0.5 152 493 <0.5 <0.05 <100 <100 <0.05 <100 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Coloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Hangnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Sampling Depth Selenium Silver	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I mg/I O2 µg/I pg/I pg/I pg/I ca mg/I O2 mg/I Ca mg/I Ca mg/I Ca mg/I O2 mg/I Ca mg/I O2 mg/I Ca mg/I O2 mg/I Ca mg/I O3 mg/I Ca mg/I O4 pg/I pg/I pg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m	200 0.23 mg/l N 5 1000 5 250 0 2500 0.05 0 0.05 0 0.8 200 200 25 50 1 20 0.5 6.5 - 9.5	200 0.11 mg/l N 100 1000 5 200 30 30 10 1000 200 10 5 5 5 1 35 20 0.1 30 0.0005 5	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 94 <10 <0.5 3.73 -1 nm <0.05 <0.002	<0.03 413 7.8	485	202 <5 60.03 <0.05 <0.05 18.9 <0.5 18.9 <0.5 177.59 29 <0.5 <0.5 <0.5 493 <0.15 <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 <0.05 <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 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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E Coli Fluoride Iron Honginesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Silver Sodium	ug/I u	200 0.23 mg/l N 5 1000 5 250 0 2500 0.05 0 0.05 5 200 0.05 6.5 - 9.5	200 0.11 mg/l N 10 100 1000 5 200 30 30 10 1000 10 50 1 35 20 0.1 35 20 0.005 5 150	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 94 <10 <0.5 3.73 <1 nm <0.5 <0.002 7.4 <0.002 0.63	<0.03 413 7.8	485	202 <5 60.03 <0.05 <0.05 <0.05 18.9 <0.05 18.9 <0.10 77.59 29 <0.5 <0.5 152 493 <0.5 <0.05 70 18 <0.150 <0.05 70 18 <0.150 <0.05 70 18 <0.150 <0.70 18 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 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Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l	200 0.23 mg/l N 5 1000 5 250 0 2500 0.05 0 0.05 0 0.8 200 200 25 50 1 20 0.5 6.5 - 9.5	200 0.11 mg/l N 100 1000 5 200 30 30 10 1000 200 10 5 5 5 1 35 20 0.1 30 0.0005 5	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 94 <10 <0.5 3.73 -1 nm <0.05 <0.002	<0.03 413 7.8	485	202 <5 60.03 <0.05 <0.05 <0.05 18.9 <0.05 18.9 <0.10 77.59 29 <0.5 <0.5 152 493 <0.5 <0.05 150 <10 <0.05 <10 <0.05 <10 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <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 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	<0.03 472 7.7 29.5	<0.03 529 7.6 29.5	<5 <0.03 <0.5 <0.5 <0.5 <17.3 <0.5 17.3 <0.1 79.96 40.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <10 <10 <0.5 <10 <0.5 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <0.05 <0.00 <0.05 <0.00 <0.05 <0.00 <0.00 <0.05 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.	476	486 505 4.00 4.01 7.4 7.4 7.4 6.0.6 4.0.6	504		505 505 7,4 2,2 2,2,5	20.6 <0.03 <0.03 <0.5 <0.03 <0.5 <0.61 19.3 <0.5 <0.01 81.62 17 1.3 <0.5 16 500 484 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.00 <0.150 <0.150 <0.150 <0.150 <0.17 2 2 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<0.03 491 7.4	<0.03 510 7.5	<5 <0.03 <0.5 <0.5 <0.5 <0.5 18.4 <0.5 55.1 <0.1 77.41 53 1.1 <0.5 55.24 <0.5 <56 <10 <0.5 3.2 1.4 nm 2 <0.5 <0.002 7.5 <7. <0.002 0.87 29.7 29 <0.5 <23.65 85.5	228 228 29.3	 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <	<5.0.03 <0.5 <0.05 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	<0.020 492 7.4	<0.020 497 7.5
Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Coloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Solids Temp	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 5 1000 5 250 0 2500 0.05 0 0.05 5 200 0.05 6.5 - 9.5	200 0.11 mg/l N 10 100 1000 5 200 30 30 10 1000 10 50 1 35 20 0.1 35 20 0.005 5 150	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 94 <10 <0.5 3.73 -1 nm <0.05 <0.002	<0.03 413 7.8	485	202 <5 60.03 <0.05 <0.05 18.9 <0.5 18.9 <0.5 152 29 <0.5 152 493 <0.15 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 <0.05 70 18 40 70 70 70 70 80 70 70 80 70 80 70 70 80 70 70 80 70 70 80 70 70 80 70 70 80 70 70 80 70 70 80 70 70 80 70 70 70 80 70 70 80 70 70 80 70 70 70 80 70 70 80 70 70 80 70 70 80 70 70 80 70 70 70 80 70 70 80 70 70 80 70 70 80 70 70 80 70 70 80 70 70 70 70 70 70 70 70 70 70 70 70 70	472	<0.03 529 7.6	<5 <0.03 <0.5 <0.5 17.3 <0.5 17.3 <0.5 <0.1 79.96 40.5 <0.5 <0.5 <0.5 <10 <0.5 <0.05 <0.05 <0.00 <0.5 <0.002 7.5 <0.002 7.5 <0.002 7.5 <0.002 7.5 <0.003 28.5 0.7 nm 12.08 93.95 16	<0.03 476 7.5 29.3	Color Color	504		3 0,03 3 0,03 5 505 5 505 7 7.4 7 7.4 10.1	20.6 <0.03 <0.03 <0.5 <0.03 <0.5 <0.61 19.3 <0.6 19.3 <0.6 19.3 <0.5 <0.6 19.3 <0.5 <0.6 19.3 <0.6 19.3 <0.6 19.3 <0.6 19.3 <0.6 19.3 19.3 <0.6 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3	<0.03 491 7.4	<0.03 510 7.5	 <5 <0.03 <0.5 <0.5 <0.5 <18.4 <0.5 <18.4 <0.1 <19.6 <10.1 <177.41 <19.5 <10.5 <10.5 <10.6 <10.5 <10.6 <l><10.6 <10.6 <10.6 <10.6<!--</td--><td>228</td><td> <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <</td><td>45 .0.03 .0.5 .0.5 .0.5 .0.5 .0.6 .0.7 .0.7 .0.1 .0.5 .0.6 .0.7 .0.7 .0.7 .0.8 .0.9 .0.9 .0.9 .0.9 .0.9 .0.002 .7.5 .0.002 .7.5 .0.002 .7.5 .0.002 .7.5 .0.002 .7.5 .0.002 .7.5 .0.002 .7.5 .0.002 .7.6 .0.1.73 .7.7 .7.8 .7.8 .7.9</td><td><0.020 492 7.4</td><td><0.020 497 7.5</td></l>	228	 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <	45 .0.03 .0.5 .0.5 .0.5 .0.5 .0.6 .0.7 .0.7 .0.1 .0.5 .0.6 .0.7 .0.7 .0.7 .0.8 .0.9 .0.9 .0.9 .0.9 .0.9 .0.002 .7.5 .0.002 .7.5 .0.002 .7.5 .0.002 .7.5 .0.002 .7.5 .0.002 .7.5 .0.002 .7.5 .0.002 .7.6 .0.1.73 .7.7 .7.8 .7.8 .7.9	<0.020 492 7.4	<0.020 497 7.5
Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Honginesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Photassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Solids Temp Thallium Time sampled	ևց/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 5 1000 5 250 0 2500 0.05 0 0.05 5 200 0.05 6.5 - 9.5	200 0.11 mg/l N 10 100 1000 5 200 30 30 10 1000 10 50 1 35 20 0.1 35 20 0.005 5 150	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 <10 <0.5 3.73 <1 nm <0.002 7.4 <0.002 12.94	<0.03 413 7.8 29.1	<0.03 485 7.4 29	202 <5 60.03 <0.05 <0.05 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 <0.05 18.9 18.9 18.9 19.9 19.9 19.9 19.9 19.9	<0.03 472 7.7 29.5	<0.03 529 7.6 29.5	<5 <0.03 <0.5 <0.5 <0.5 <0.5 <17.3 <0.5 17.3 <0.1 79.96 16 <0.5 <0.5 <0.5 <0.5 <0.5 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Aluminium Ammonia Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Caddmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite o-Phosphate pH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Strontium Suiphate Suspended Solids Temp Thallium Time sampled Tim (igg/1)	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 5 1000 5 250 0 2500 0.05 0 0.05 5 200 0.05 6.5 - 9.5	200 0.11 mg/l N 10 100 1000 5 200 30 30 10 1000 10 50 1 35 20 0.1 35 20 0.005 5 150	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 19.8 26.9 <0.1 81.14 17 <0.5 535 0.6 <10 <0.5 3.73 <1 nm <0.05 <0.002 7.4 <0.002 0.63 29 12.94	<0.03 413 7.8 29.1	7.4 29	202 <5 60.03 <0.05 <0.05 18.9 <0.05 18.9 <0.1 77.59 29 <0.5 152 493 <0.5 <0.05 152 493 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 <10 <0.05 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<0.93 <0.95 <0.01 <0.01 <0.01 <0.01 <0.01 <0.02 <0.03 <0.04 <0.05 <0.07 <0.06 <0.07 <0.07 <0.08 <0.09 <0.09 <0.09 <0.09 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.02 <0.02 <0.02 <0.02 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <</nm<></nm<></nm<></nm<>	<0.03 476 7.5 29.3	Section Sect	504 504 22 27 27 10.8	######################################	3 3 40.03 3 5 505 5 505 5 6 6 7 7 4 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1	20.6 <0.03 <0.5 <0.03 <0.5 <0.61 19.3 <0.5 20.6 <0.1 81.62 17 1.3 <0.5 16 500 484 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002 <0.12 <0.05 <0.12 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Date Collected		DWR	IGV 2	010 GW Regs	s ######	######	######	#######	######	######	######	######	######	######		BOREHOI		######	######	######	######	######	######	31-Jul-07	28-Aug-07	25-Sep-07	24-Oct-07	28-Nov-07
Alkalinity Aluminium	mg/l CaCO3 ug/l	200	200	150				242													214							
Ammonia Antimony Arsenic	mg/l N ug/l	0.23 mg/l N 0.	11 mg/l N	7.5	0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	0.13	0.06	<0.03	<0.03	<0.03
Barium Beryllium	ug/l ug/l ug/l		100	7.5	56.4	<50	51.7	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	57.2	55.9	<50	<50	<50	nm
B.O.D. Boron	mg/l O2 µg/l	1000	1000	750				88.1													115.2							
Cadmium Calcium	μg/I mg/I Ca	5	5 200	3.75	<0.10	<0.10	<0.10	<0.10 137.04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 88.16	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C.O.D. Chloride	mg/l O2 mg/l Cl	250	30	187.5	198	184	191	130	156	79	77	116	140	151	148	130	112	106	103	103	102	91	154	136	81	95	108	87
Chromium Cobalt	µg/l µg/l	50	30	37.5	10	3.6	4.6	6.3	3.3	<1	2.2	2.9	4.1	<1	3.6	<1	4.3	2.7	3.5	3.5	<1	<1	<1	<1	<1	<1	<1	<1
Coliform Bacteria Conductivity	(No/100 ml) μS/cm @ 25	0 2500	1000	1875	1141	1030	1107	922	976	796	811	845	854	897	927	917	862	822	833	833	752	779	904	697	790	777	723	782
Copper Cyanide	μg/l mg/l	2000 0.05	30 10	1500				3.2 <0.05													<1 <0.05							
D.O. E_ Coli	% Saturation No/100 ml	0	4000		67			72			79			63			78				68			107			48	
Fluoride Iron	mg/l µg/l	0.8 200	1000 200 10	40.75	367.7 8.4	127.7	190.8	<0.150 241.4 7.1	184.9	205.1	176.3 3.6	179.6 <1	312.7	217.2	118.5	120.8	253.4	234.2	201.1		<0.150 228.2	180.0	563.1	91.1	212.3 4.0	237.9	175.7	146.2
Lead Magnesium Manganese	μg/l mg/l Mg	25 50	50 50	18.75	67.1	6.7	<1 5.9	7.1 7.4 22.6	11.8	<1 8.8	14.3	8.8	20.3	5.7	9.7	7.4	9.9	5.5	<1	<1	2.9 5.32 10.9	<1 27.1	23.6 174.6	<1 96.9	29.6	9.8	5.9	<1 11.7
Mercury Molybdenum	μg/l μg/l μg/l	1	1 35	0.75	67.1	0.7	5.9	0.4	11.0	0.0	14.3	0.0	20.3	20.1	9.7	7.4	9.9	23.0	<1	<1	<0.10	21.1	174.0	90.9	29.0	9.0	5.9	11.7
Nickel Nitrite	μg/I mg/I N	20 0.5	20	15 0.375	5.3 0.012	2.1 <0.003	2.8	2.6	2.1 < 0.003	3.4	2.9	4 <0.003	4.8	3.5	<1 0.009	<1 <0.003	<1 <0.003	<1 <0.003	<1 <0.003	<1 <0.003	5.5	3.0	6.0 nm	8.7 0.010	<1 0.004	3.7 0.004	2.2 0.003	2.9 < 0.003
o-Phosphate pH	mg/l P	6.5 - 9.5	30	2.0.0	7	7.3	7.2	<0.003 <0.02 7.1	7.3	7.4	7.5	7.5	7.6	7.4	7.1	7.3	7.2	7.0	7.0	7.0	<0.02	7.6	7.4	8.6	7.2	7.4	7.4	7.3
Phenol Potassium	mg/l mg/l		0.0005 5		0.011	<0.001	0.179	<0.001	0.005 1.28	0.177	<0.001	0.014	<0.001	0.009	<0.001	0.016	<0.001	0.065 1.10	<0.001	<0.001	<0.001	<0.01	nm 1.55	<0.01 13.92	<0.01	<0.01	<0.01	<0.01
Sampling Depth Selenium	m μg/l	10			28.9	29.1	28.7	29.1	28.5	28.5	29	28.8	28.5	28.7	29.1	28.4	28.9	28.5	28.5	28.5	28.8	28.5	29.0	28.5	28.5	27.9	28.2	28.9
Silver Sodium	μg/l mg/l	200	150	150	22.82	29.78	32.18	26.4	19.3	26.25	40.02	33.08	37.47	33.91	21.72	12.62	8.34	18.16	11.30	11.30	32.52	41.84	25.55	68.71	26.86	33.83	42.44	42.56
Strontium Sulphate	μg/l mg/l SO4	250	200	187.5				18													23.1							
Suspended Solids Temp Thallium	mg/l °C μg/l				9.8	7	12.4	13.1	12	13	21.5	14	12	13.5	10	8	9.6	11.0	9.0	9.0	14.2	14.0	14.0	20.6	15.0	10.0	10.7	12
Time sampled Tin (µg/I)	μg/I							11.45	11.45	12.05	12.4	11.5	11.4	11.3	11.5	11.55	12.05	11.40	11.50	11.50	11.55	11.50	12.10	12.15	11.45	11.55	11.5	10
T.O.C. T.O.N	mg/l mg/l N	NAC	NAC		38.2 0.25	0.2	0.18	1.6 0.23	0.2	0.16	1.9 0.13	0.14	0.14	1.5 0.12	0.12	0.14	<1.5 0.08	0.09	<0.05	<0.05	2.0 0.13	0.18	0.19	11.2 <0.05	0.13	<0.05	2.4 <0.05	<0.05
Total S Solids Uranium	mg/l μg/l																				4 -	Noith						
Vanadium Zinc	μg/l μg/l		100		8.4	<1	<1	4.7	5.2	3.3	2.5	4.4	2	4.1	2.3	2.9	3.4	3.0	<1	<1	0813	<1	7.7	3.5	2.2		3.8	2.7
																				205.	460 10.							
Date Collected		DWR	IGV 2	010 GW Regs	s ######	######	#######		#######	#######	######	#######	#######	#######		BOREHOI		#######	#######	*****	5 X0 1jed #######	#######	######	18-Aug-09	29-Sep-09	20-Oct-09	17-Nov-09	
Alkalinity Aluminium	mg/l CaCO3	200	200	150				238							#######	#######	#######		ion	####### 248	#######							280
Alkalinity Aluminium Ammonia Antimony	ug/l mg/l N ug/l		200 11 mg/l N	150 0.175	s######	<0.03	0.03		<0.03	<0.03	0.09	0.08	<0.03	0.03				<0.03	####### 0.03	*****	· ·	<0.03	<0.03	18-Aug-09 <0.03	29-Sep-09 <0.03	20-Oct-09	17-Nov-09 <0.03	
Alkalinity Aluminium Ammonia Antimony Arsenic Barium	ug/I mg/I N ug/I ug/I ug/I	200 0.23 mg/l N 0.	200	150				238							#######	#######	#######		(0.03 x)	####### 248	#######							280
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D.	ug/l mg/l N ug/l ug/l ug/l ug/l mg/l O2	200 0.23 mg/l N 0. 5	200 11 mg/l N 10 100	150 0.175 7.5	<0.03	<0.03	0.03	0.03	<0.03	<0.03	0.09	0.08	<0.03	0.03	0.04	#######	<0.03	<0.03	00.03 N	248 248 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03 <50
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 µg/l µg/l	200 0.23 mg/l N 0.	200 11 mg/l N	150 0.175	<0.03	<0.03	0.03	0.03	<0.03	<0.03	0.09	0.08	<0.03	0.03	0.04	#######	<0.03	<0.03	00.03 N	248	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03 <50 <50 <50 <0.1
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 µg/l	200 0.23 mg/l N 0. 5	200 11 mg/l N 10 100 1000 5	150 0.175 7.5	<0.03	<0.03	0.03	238 0.03 <50 76.5 <0.10	<0.03	<0.03	0.09	0.08 <50	<0.03	0.03	0.04	0.03	<0.03	<0.03	20.03 20.03 20.03 20.03 20.03 20.03 20.03 20.03 20.03	248 200 0.03 <50 80.1 <0.1	<0.03 <50	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<pre>< 280</pre>
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l pg/l pg/l mg/l Ca mg/l C2 mg/l C1 µg/l	200 0.23 mg/l N 0. 5 1000 5 250 50	200 11 mg/l N 10 100 1000 5 200	150 0.175 7.5 750 3.75	<0.03 <50 <0.10	<0.03 <50 <0.10	<.0.03 <.50 <.0.10	238 0.03 <50 76.5 <0.10 120.78	<0.03 <50 <0.10	<0.03 <50 <0.10	0.09 <50 <0.10	0.08 <50	<0.03 <50 <0.10	<50 <0.10	0.04 <50 <0.10	0.03	<0.03 <50	<0.03	<0.1	248 248 0.03 <50 80.1 <0.1 108.06	<0.03 <50 <0.1	<0.03 <50	<0.03 <50 <0.1	<0.03 <50 <0.1	<0.03 <50 <0.1	<0.03 <50 <0.1	<0.03 <50 <0.1	<0.03 <0.03 <50 <50 <0.1 111.18
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 µg/l µg/l mg/l Ca mg/l O2 mg/l Ca mg/l O2 mg/l Cl µg/l µg/l l ug/l US/CM @ 25	200 0.23 mg/l N 0.5 5 1000 5 250 0 2500	1000 1000 1000 1000 1000 1000 1000 100	150 0.175 7.5 750 3.75 187.5 37.5	<0.03 <50 <0.10	<0.03 <50 <0.10	0.03<50<0.1068	76.5 <0.10 120.78 71 <1	<0.03 <50 <0.10	<0.03 <50 <0.10	0.09 <50 <0.10	0.08 <50 0.4	<0.03 <50 <0.10	<.50 <0.10	<0.04 <50 <0.10	0.03	<0.03 <50 <0.10	<0.03 	<0.1 45	20 20 20 20 20 20 20 20	<0.03 <50 <0.1	<0.03 <50 0.1	<0.03 <50 <0.1	<0.03 <50 <0.1	<0.03 <50 <0.1	<0.03 <50 <0.1	<0.03 <50 <0.1	<pre> </pre> <pre> <0.03 </pre> <pre> <50 </pre> <pre> <50 <0.1 111.18 </pre> <pre> 29 7.7 </pre> <pre> 628</pre>
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper	ug/l mg/l N ug/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 μg/l μg/l mg/l Ca mg/l O2 mg/l Cl mg/l Ca mg/l C2 mg/l C2 mg/l C2 mg/l WS/cm @ 25 μg/l mg/l	200 0.23 mg/l N 0. 5 1000 5 250 50	200 11 mg/l N 10 100 1000 5 200 30 30	150 0.175 7.5 750 3.75 187.5 37.5	<0.03 <50 <0.10 57 <1	<0.03 <50 <0.10 58 2.4	0.03<50<0.10684.1	76.5 <0.10 120.78 71 <1 713 <1 <0.05	<0.03 <50 <0.10	<0.03 <50 <0.10 79 7.9	<0.09 <50 <0.10 82 <1 772	0.08 <50 0.4 65 5.8	<0.03 <50 <0.10	<0.10 <0.10 <0.10 <0.10 <0.10	0.04 <50 <0.10 49 <1	<0.10 33 <1	<0.03 <50 <0.10 <0.10 3.7	<0.03 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	<0.0 <0.0 <0.1 <0.1 45 1.1	0.03 0.03 0.03 0.03 0.03 0.01 0.1 108.06 62 2.7 673 1.6 0.01	<0.03 <50 <0.1 29 2.7	<0.03 <50 0.1 49 3.9	<0.03 <50 <0.1 55 5.6	<0.03 <50 <0.1 61 5.9	<0.03 <50 <0.1 50 5	<0.03 <50 <0.1 60 3.2	<0.03 <50 <0.1 29 5.9	<pre></pre>
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beyfilium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Colliform Bacteria Conductivity Copper Cyanide D.O. EColi	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I mg/I O2 µg/I pg/I mg/I Ca mg/I O2 mg/I CI µg/I (No/100 mI) µS/cm @ 25 µg/I mg/I % Saturation No/100 mI	200 0.23 mg/l N 0. 5 1000 5 250 0 250 0 2000 0.05	200 11 mg/l N 10 100 5 200 30 30 1000	150 0.175 7.5 750 3.75 187.5 37.5	<0.03 <50 <0.10	<0.03 <50 <0.10 58 2.4	0.03<50<0.10684.1	238 0.03 <50 76.5 <0.10 120.78 71 <1 <0.05 77 0	<0.03 <50 <0.10	<0.03 <50 <0.10 79 7.9	 0.09 <50 <0.10 82 <1 	0.08 <50 0.4 65 5.8	<0.03 <50 <0.10	0.03<50<0.1050<1	0.04 <50 <0.10 49 <1	<0.10 33 <1	<0.03 <50 <0.10 42 3.7	<0.03 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	<0.0 <0.0 <0.1 <0.1 45 1.1	248 248	<0.03 <50 <0.1 29 2.7	<0.03 <50 0.1 49 3.9	<0.03 <50 <0.1 55 5.6	<0.03 <50 <0.1 61 5.9	<0.03 <50 <0.1 50 5	<0.03 <50 <0.1 60 3.2	<0.03 <50 <0.1 29 5.9	<pre></pre>
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyaniide D.O.	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I g/I mg/I O2 pg/I mg/I C2 mg/I C2 mg/I C1 pg/I pg/I pg/I pg/I pg/I pg/I pg/I pg/I	200 0.23 mg/l N 0. 5 1000 5 250 0 250 250 250 250 2000 0.05	200 11 mg/l N 10 100 1000 5 200 30 30	150 0.175 7.5 750 3.75 187.5 37.5	<0.03 <50 <0.10 57 <1	<0.03 <50 <0.10 58 2.4	0.03<50<0.10684.1	76.5 <0.10 120.78 71 <1 <1 <0.05 77	<0.03 <50 <0.10	<0.03 <50 <0.10 79 7.9	<0.09 <50 <0.10 82 <1 772	0.08 <50 0.4 65 5.8	<0.03 <50 <0.10	<0.10 <0.10 <0.10 <0.10 <0.10	0.04 <50 <0.10 49 <1	<0.10 33 <1	<0.03 <50 <0.10 <0.10 3.7	<0.03 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	<0.0 <0.0 <0.1 <0.1 45 1.1	0.03 0.03 0.03 0.03 0.03 0.01 0.1 108.06 62 2.7 673 1.6 0.01	<0.03 <50 <0.1 29 2.7	<0.03 <50 0.1 49 3.9	<0.03 <50 <0.1 55 5.6	<0.03 <50 <0.1 61 5.9 673	<0.03 <50 <0.1 50 5	<0.03 <50 <0.1 60 3.2	<0.03 <50 <0.1 29 5.9	<pre></pre>
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beyfilium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Colliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I pg/I pg/I mg/I C2 mg/I C2 mg/I C2 mg/I C2 mg/I C2 mg/I C3 mg/I C4 pg/I pg/I pg/I mg/I wS/Saturation No/100 ml mg/I pg/I	200 0.23 mg/l N 0. 5 1000 5 250 0 2500 2500 0.05 0 0.8 200	200 11 mg/l N 10 100 1000 5 200 30 30 1000 30 1000 200	150 0.175 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 <50 <0.10 57 <1 701 96	<0.03 <50 <0.10 58 2.4 700	0.03 <50 <0.10 68 4.1 709	76.5 <0.10 120.78 71 <1 <0.05 77 0 <0.150 121.2 4.1 5.87	<0.03 <50 <0.10 79 <1 733	<0.03 <50 <0.10 79 7.9 755	0.09 <50 <0.10 82 <1 772 69	0.08 <50 0.4 65 5.8 673	<0.03 <50 <0.10 44 <1 629	0.03 <50 <0.10 50 <1 661 76	0.04 <50 <0.10 49 <1 659	0.03 -<0.10 	<0.03 <50 <0.10 <0.10 3.7 638 218.3	<0.03	 45 1.1 629 107.1 	0.03 <50 80.1 <0.1 108.06 62 2.7 673 1.6 <0.0150 119.7	<0.03 <50 <0.1 <0.1 29 2.7 610	<0.03 <50 0.1 49 3.9 624	<0.03 <50 <0.1 <55 5.6 660 nm	<0.03 <50 <0.1 <61 5.9 673 78 1	<0.03 <50 <0.1 50 5 662	<0.03 <50 <0.1 60 3.2 667	<0.03 <50 <0.1 29 5.9 603	280 <0.03 <50 <0.1 111.18 29 7.7 628 1.1 <0.05 83 <0.150 <50 <1 4.40 6.1
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 µg/l pg/l pg/l Ca mg/l O2 mg/l C2 mg/l O2 mg/l C3 mg/l O2 mg/l C4 µg/l µg/l µg/l µg/l µg/l µg/l mg/l % Saturation No/100 ml mg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l	200 0.23 mg/l N 0. 5 1000 5 250 0.2500 2500 0.05 0 0.8 250 50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200 11 mg/l N 10 1000 5 200 30 30 10 1000 200 10 1000 50 50 1	150 0.175 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 <50 <0.10 <701 <701 <701 96 227.3 5.2 17.5	<0.03 <50 <0.10 <58 2.4 700 146.3 <11.5	0.03 <50 <0.10 68 4.1 709 164.7 <1	76.5 <0.10 120.78 71 <1 <1 <0.05 77 0 <0.150 71 <1 <1.50 <0.05 77 0 121.2 4.1 5.87 14.9 <0.10	<0.03 <50 <0.10 <79 <1 733 <a href="https://www.new.new.new.new.new.new.new.new.new.</td><td><0.03 <50 <0.10 79 7.9 755 176 2.3 10.7</td><td>0.09 <50 <0.10 82 <1 772 69 129 <1 7.4</td><td>0.08
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170.1</td><td><0.03 <50 <0.10 <44 <1 629 183 <1 18.9</td><td>0.03 <50 <0.10 50 <1 661 76 468.1 6.4 164.2</td><td> 49 659 136.2 14.3 </td><td>0.03
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165.8
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27.2</td><td><0.03 <50 <0.10 <0.10 3.7 638 218.3 3 48.3</td><td><0.03 20.10 27 3.2 588 121.9 <1 3.3</td><td>0.03
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66.5</td><td><0.03 <50 <0.1 <55 5.6 660 nm <50 <1 10.5</td><td><0.03 <50 <0.1 <61 5.9 673 78 1 <50 <1 9.2</td><td><0.03 <50 <0.1 <50 5 5 662 <50 <1 5.86</td><td><0.03 <50 <0.1 <0.1 60 3.2 667 67 <50 <1</td><td><0.03 <50 <0.1 29 5.9 603 <50 <1 6.7</td><td>280 <0.03 <50 <0.1 111.18 29 7.7 628 1.1 <0.05 83 <0.150 <50 <1 4.40 6.1 <0.1</td></tr><tr><th>Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Colform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Manganese Mercury Molybdenum Nickel</th><td>ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I g/I mg/I O2 μg/I mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I μg/I μg/I μg/I ws Saturation No/100 ml mg/I μg/I μg/I μg/I μg/I μg/I μg/I μg/I μ</td><td>200 0.23 mg/l N 0. 5 1000 5 250 250 0.2500 2000 0.05 0.8 200 25 50</td><td>200 11 mg/l N 10 100 1000 5 200 30 30 10 1000 200 10 50 50 1 35 20 0.1</td><td>150
0.175
7.5
750
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1500</td><td><0.03 <50 <0.10 <57 <1 701 96 227.3 5.2</td><td><0.03 <50 <0.10 <58 2.4 700 146.3 <1</td><td>0.03
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4.1
709</td><td>76.5
<0.10
120.78
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<1
<0.05
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0.05
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5.87
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Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coliform Bacteria Magnesium Manganesium Manganese Mercury Molybdenum Niickel Nitrite O-Phosphate PH	ug/l mg/l N ug/l ug/l ug/l ug/l ug/l ug/l ug/l mg/l O2 µg/l µg/l µg/l l µg/l l µg/l l l l l l l l l l l l l l l l l l l	200 0.23 mg/l N 0. 5 1000 5 1000 5 250 0 2500 2000 0.05 0 0.8 200 25 5 1 20 0.5	200 11 mg/l N 10 1000 5 200 30 30 1000 200 10 1000 200 10 10 10 10 10 10 10 10 10 10 10 10 1	150 0.175 7.5 7.5 3.75 187.5 37.5 187.5 1500	<0.03 <50 <0.10 <57 <1 701 96 17.5 17.5	<0.03 <50 <0.10 <58 2.4 700 146.3 <1 <1.5 <1 <0.003 7.1	0.03 <50 <0.10 68 4.1 709 164.7 <1 0.003 7.2	76.5 <0.10 120.78 71 <1 <1 <0.05 77 0 713 <1 <0.05 77 0 121.2 4.1 5.87 14.9 <0.10 <1 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.005 7.3	<0.03 <50 <0.10 <79 <1 733 <a href="https://www.new.new.new.new.new.new.new.new.new.</td><td><0.03 <50 <0.10 79 7.9 755 176 2.3 <0.003 7.4</td><td>0.09 <50 <0.10 82 <1 772 69 129 <1 7.4 <0.003 7.3</td><td>0.08 <50 0.4 65 5.8 673 170.1 12.7 0.019 7.4</td><td><0.03 <50 <0.10 <44 <1 629 183 <1 0.005 7.2</td><td>0.03 <50 <0.10 50 <1 661 76 468.1 6.4 164.2 6 0.005</td><td>49 <1
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629 107.1 45 1.1 629 107.1 41 8.3 40.002 7.3 40.01</td><td>673 1.6 <0.150 119.7 2.7 673 1.6 <0.01 80 119.7 2 5.21 12.6 <0.01 12.7 12.6 <0.02 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7</td><td><pre>48884888 <0.03 <50 <50 <0.1 <0.1 29 2.7 610 610 127.7 1.2 8.6 <1 <0.002 7.3 <0.002 <1</pre></td><td><0.03 <50 0.1 49 3.9 624 179.9 2.9 66.5 4.3 <0.002 7.7 <0.002 1.04</td><td><0.03 <50 <0.1 <55 5.6 660 nm 1.3 <0.002 7.1 nm <1</td><td><0.03 <50 <0.1 61 5.9 673 78 1</td><td><0.03 <50 <0.1 <50 50 5 662 <1 <0.002 7.3 <0.015</td><td><0.03 <50 <0.1 <60 3.2 <667 <67 <1 3.5 <1.3 <0.002 <7.2 <0.012 <1.23</td><td><0.03 <50 <0.1 29 5.9 603 <50 <1 <0.002 7.30 <0.005</td><td>280 <0.03 <50 <0.1 111.18 29 7.7 628 1.1 <0.05 83 <0.150 <50 <1 4.40 6.1 <0.01 <1 <0.002 <0.02 7.1 <0.002 7.1 <0.01 <1 <0.002 7.1 <0.01 <1 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 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121.9 <1 <0.002 7.4 <0.012 <1	45 1.1 629 107.1 45 1.1 629 107.1 41 8.3 40.002 7.3 40.01	673 1.6 <0.150 119.7 2.7 673 1.6 <0.01 80 119.7 2 5.21 12.6 <0.01 12.7 12.6 <0.02 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7	<pre>48884888 <0.03 <50 <50 <0.1 <0.1 29 2.7 610 610 127.7 1.2 8.6 <1 <0.002 7.3 <0.002 <1</pre>	<0.03 <50 0.1 49 3.9 624 179.9 2.9 66.5 4.3 <0.002 7.7 <0.002 1.04	<0.03 <50 <0.1 <55 5.6 660 nm 1.3 <0.002 7.1 nm <1	<0.03 <50 <0.1 61 5.9 673 78 1	<0.03 <50 <0.1 <50 50 5 662 <1 <0.002 7.3 <0.015	<0.03 <50 <0.1 <60 3.2 <667 <67 <1 3.5 <1.3 <0.002 <7.2 <0.012 <1.23	<0.03 <50 <0.1 29 5.9 603 <50 <1 <0.002 7.30 <0.005	280 <0.03 <50 <0.1 111.18 29 7.7 628 1.1 <0.05 83 <0.150 <50 <1 4.40 6.1 <0.01 <1 <0.002 <0.02 7.1 <0.002 7.1 <0.01 <1 <0.002 7.1 <0.01 <1 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 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Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I mg/I O2 μg/I mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I Ca mg/I in Ca mg/I in Ca mg/I in Ca mg/I in Ca mg/I in Mo/100 mI in Mo/100 mI in mg/I in	200 0.23 mg/l N 0. 5 1000 5 1000 5 250 0 2500 2000 0.05 0 0.8 200 25 5 1 20 0.5	200 11 mg/l N 10 1000 5 200 30 30 10 1000 200 10 10 10 1000 50 50 1 35 20 0.1 30 0.0005	150 0.175 7.5 7.5 3.75 187.5 37.5 187.5 1500	<0.03 <50 <0.10 <57 <1 701 227.3 5.2 17.5 <1 0.007 7 0.03	<0.03 <50 <0.10 <58 2.4 700 146.3 <1 <1.5 11.5 7.1 0.02	0.03 <50 <0.10 68 4.1 709 164.7 <1 0.003 7.2 0.01	76.5 <0.10 120.78 71 <1 <1 <0.05 77 0 <0.150 121.2 4.1 5.87 14.9 <0.10 <1 <0.004 <0.02 7.3 <0.004	<0.03 <50 <0.10 <79 <1 733 174.7 2.7 12.2 7,4 <0.003	<0.03 <50 <0.10 79 7.9 755 176 2.3 10.7 2.3 <0.003 7.4 <0.01	0.09 <50 <0.10 82 <1 772 69 129 <1 7.4 2.4 <0.003 7.3 nm	0.08 <50 0.4 65 5.8 673 548.7 5.3 170.1 12.7 0.019 7.4 0.03	<0.03 <50 <0.10 <44 <1 629 183 <1 0.005 7.2 <0.01	0.03 <50 <0.10 50 <1 661 76 468.1 6.4 164.2 7.1 10.005	####### 0.04 <50 <0.10 49 <1 659 136.2 <1 14.3 <1 <0.003 7.1 <0.01 <0.01	0.03 <0.10 33 <1 599 165.8 <1 27.2 <1 0.003 7.1	<0.03 <50 <0.10 <0.10 3.7 638 218.3 3 48.3 2 <0.002 <0.02 7.1 0.04	<0.03 20.10 27 3.2 588 121.9 <1 <0.002 7.4 <0.01	0.03 <0.1 45 1.1 629 107.1 <1 8.3 1.2 <0.002 7.3 <0.016	0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.002 0.02 0.02 0.02 0.02 0.02 0.002 0	<0.03 <50 <0.1 29 2.7 610 127.7 1.2 8.6 <1 <0.002 <7.3 <0.002	<0.03 <50 0.1 49 3.9 624 179.9 2.9 66.5 4.3 <0.002 7.7 <0.002	<0.03 <50 <0.1 <55 5.6 660 nm <10.5 <1.3 <0.002 7.1 nm	<0.03 <50 <0.1 <61 5.9 673 78 1 <0.1 <0.02 <0.002 <0.002 <0.002	<0.03 <50 <0.1 <50 5 5 662 <50 <1 <0.002 7.3 <0.015	<0.03 <50 <0.1 <0.1 <60 3.2 <667 <67 <1 3.5 <1.3 <0.002 <7.2 <0.015	<0.03 <50 <0.1 29 5.9 603 <50 <1 <1.7 41 <0.002 7.3 <0.0005	280 <0.03 <50 <0.1 111.18 29 7.7 628 1.1 <0.05 83 <0.150 <50 <1 4.40 6.1 <0.1 <1 <0.02 <0.02 7.1 7.1 <0.015
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate pH Phenol Potassium Sampling Depth Selenium Indiamium Calcium Conductivity Copper Cyanide D.O. D.O. D.O. D.O. D.O. D.O. D.O. D.O	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I g/I mg/I O2 pg/I mg/I Ca mg/I O2 mg/I Ca mg/I O2 mg/I Ci pg/I ug/I yg/I yg/I yg/I yg/I yg/I % Saturation No/100 mI mg/I mg/I mg/I mg/I mg/I mg/I yg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m	200 0.23 mg/l N 0. 5 1000 5 250 0 2500 2500 0.05 0 0 2500 2500	200 11 mg/l N 10 1000 5 200 30 30 10 1000 200 10 10 10 1000 50 50 1 35 20 0.1 30 0.0005	150 0.175 7.5 7.5 3.75 187.5 37.5 187.5 1500	<0.03 <50 <0.10 <57 <1 701 96 17.5 <1 0.007 7 0.03 <1	<0.03 <50 <0.10 <58 2.4 700 146.3 <1 <1.5 <1 <0.003 7.1 0.02 <1	0.03 <50 <0.10 68 4.1 709 164.7 <1 0.003 7.2 0.011 1.34	238 0.03 <50 76.5 <0.10 120.78 71 <1 <0.05 77 0 <0.150 4.1 5.87 14.9 <0.10 <1 0.004 <0.10 1.17	<0.03 <50 <0.10 <79 <1 <1.733 <a href="https://www.new.new.new.new.new.new.new.new.new.</td><td><0.03 <50 <0.10 <79 7.9 <755 1176 2.3 <0.003 7.4 <0.01 1.25	0.09 <50 <0.10 82 <1 772 69 129 <1 7.4 <0.003 7.3 nm 2.13	0.08 <50 0.4 65 5.8 673 170.1 12.7 0.019 7.4 0.03 <1	<0.03 <50 <0.10 <44 <1 629 183 <1 0.005 7.2 <0.01 <1	0.03 <50 <0.10 50 <1 661 76 468.1 6.4 164.2 7.1 0.005	####### 0.04 <50 <0.10 <49 <1 <1 <1 <1 <1 <1 <1 <	33 <1 599 165.8 <1 0.003 7.1 <1 <1 <1	<0.03 <0.03 <0.10 <0.10 <0.10 3.7 638 78 218.3 3 48.3 2 <0.002 <0.002 7.1 0.04 <1	<0.03 27 3.2 588 121.9 <1 <0.002 7.4 <0.012 <1	45 1.1 629 107.1 45 1.1 629 107.1 41 8.3 40.002 7.3 40.01	673 1.6 <0.150 119.7 2.7 673 1.6 <0.01 80 119.7 2 5.21 12.6 <0.01 12.7 12.6 <0.02 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.6 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7	<pre>48884888 <0.03 <50 <50 <0.1 <0.1 29 2.7 610 610 127.7 1.2 8.6 <1 <0.002 7.3 <0.002 <1</pre>	<0.03 <50 0.1 49 3.9 624 179.9 2.9 66.5 4.3 <0.002 7.7 <0.002 1.04	<0.03 <50 <0.1 <55 5.6 660 nm 1.3 <0.002 7.1 nm <1	<0.03 <50 <0.1 61 5.9 673 78 1	<0.03 <50 <0.1 <50 50 5 662 <1 <0.002 7.3 <0.015	<0.03 <50 <0.1 <60 3.2 <667 <67 <1 3.5 <1.3 <0.002 <7.2 <0.012 <1.23	<0.03 <50 <0.1 29 5.9 603 <50 <1 <0.002 7.30 <0.005	280 <0.03 <50 <0.1 111.18 29 7.7 628 1.1 <0.05 83 <0.150 <50 <1 4.40 6.1 <0.01 <1 <0.002 <0.02 7.1 <0.002 7.1 <0.01 <1 <0.002 7.1 <0.01 <1 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0	
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate PH Phenol Potassium Sampling Depth Selenium Silver Soddium	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 0. 5 1000 5 250 0.2500 2000 0.05 0 0.8 200 25 1 20 0.5 6.5 - 9.5	200 11 mg/l N 10 1000 5 200 30 30 10 1000 200 10 10 10 10 10 10 10 10 10 10 10 10 1	150 0.175 7.5 7.5 750 3.75 187.5 37.5 1875 1500	<0.03 <50 <0.10 <57 <1 701 96 17.5 <1 0.007 7 0.03 <1 27.7	<0.03 <50 <0.10 <58 2.4 700 146.3 <1 <0.003 7.1 0.02 <1 28.1	0.03 <50 <0.10 68 4.1 709 164.7 <1 0.003 7.2 0.01 1.34 27.2	238 0.03 76.5 <0.10 120.78 71 <1 <0.05 77 0 <0.150 121.2 4.1 5.87 14.9 <0.00 <1.004 <0.02 7.3 <0.01 1.17 28.8	<0.03 <50 <0.10 <79 <1 <1.2.7 <1.2.7 <1.2.0 <0.003 <7.4 <0.001 <1 28.1	<0.03 <50 <0.10 <79 7.9 755 176 2.3 <0.003 7.4 <0.001 1.25 28	0.09 <50 <0.10 82 <1 772 69 129 <1 7.4 <0.003 7.3 nm 2.13 28	0.08 <50 0.4 65 5.8 673 170.1 12.7 0.019 7.4 0.03 <1 27.8	<0.03 <50 <0.10 <44 <1 629 629 18.9 <1 0.005 7.2 <0.01 <1 27.8	0.03 <50 <0.10 50 <1 661 76 468.1 6.4 164.2 7.1 0.005 7.1 0.02 <1 27.3	####### 0.04 <50 <0.10 <0.10 <1 <0.01 <1 <0.01 <1 <0.003 <1 <0.01 <1 <2 <2 <2 <1 <0.01 <2 <2 <4 <0.01 <2 <4 <4 <4 <4 <4 <4 <4	####### 0.03 <0.10	<0.03 <0.03 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	<0.03 27 3.2 588 121.9 <1 <0.002 7.4 <0.001 <1 26.9	45 1.1 629 107.1 45 1.1 629 107.1 41 8.3 40.002 7.3 40.002	673 1.6 <0.150 119.7 2 5.21 1.6 <0.01 19.7 2 5.21 1.6 <0.00 119.7 2 5.21 1.6 <0.00 2 7.3 <0.002 0.02 7.3 <0.002	<pre>4888888888888888888888888888888888888</pre>	<0.03 <50 0.1 49 3.9 624 179.9 2.9 66.5 4.3 <0.002 7.7 <0.002 1.04 26.8	<0.03 <50 <0.1 <55 5.6 660 nm 10.5 1.3 <0.002 7.1 nm <1 28	<0.03 <50 <0.1 <61 5.9 673 78 1	<0.03 <50 <0.1 <0.1 <50 5 5 662 <1 <0.002 7.3 <0.015 <1 28.4	<0.03 <50 <0.1 <0.1 <60 3.2 <667 <67 <1 3.5 <1.3 <0.002 <7.2 <0.015 1.23 28.4	<0.03 <50 <0.1 29 5.9 603 <1 <0.002 7.3 <0.0002 7.3 <0.0001	280 <0.03 <50 <0.1 111.18 29 7.7 628 1.1 <0.05 83 <0.150 <50 <1 4.40 6.1 <0.01 <1 <0.002 <0.02 <1 <0.001 <1 27.0
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E. Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate PH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Strontium Stupphate Suspended Solids Temp Thallium	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 0. 5 1000 5 250 0 2500 2000 0.05 0 0.8 200 25 50 1 1 20 0.5 6.5 - 9.5	200 11 mg/l N 10 1000 5 200 30 30 10 1000 50 10 35 20 10 35 20 0.10 35 20 0.10 35 50 15 150	150 0.175 7.5 7.5 3.75 187.5 37.5 187.5 1500	<0.03 <50 <0.10 <57 <1 701 96 17.5 17.5 227.3 5.2 17.5 41 0.007 7 0.03 <1 27.7 8.29	<0.03 <50 <0.10 <58 2.4 700 146.3 <1 <0.003 7.1 0.02 <1 28.1 11.09	0.03 <50 <0.10 68 4.1 709 164.7 <1 0.003 7.2 0.01 1.34 27.2 24.68	76.5 <0.10 120.78 71 <1 <1 <0.05 77 0 <0.150 77 0 <0.150 <1.150 <0.150 <1.150 <1.150 <0.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150	<0.03 <50 <0.10 <79 <1 733 174.7 2.7 12.2 <1 < 0.003 7.4 <0.01 < 1 28.1 21.71	<0.03 <50 <0.10 79 7.9 755 176 2.3 10.7 2.3 <0.003 7.4 <0.01 1.25 28 26.9	0.09 <50 <0.10 82 <1 772 69 129 <1 7.4 2.4 <0.003 7.3 nm 2.13 28 38.05	0.08 <50 0.4 65 5.8 673 548.7 5.3 170.1 12.7 0.019 7.4 0.03 <1 27.8 8.91	<0.03 <50 <0.10 <44 <1 629 183 <1 0.005 7.2 <0.01 <1 27.8 8.14 11.5	0.03 <50 <0.10 50 <1 661 76 468.1 6.4 164.2 100.005 7.1 0.02 <1 27.3	####### 0.04 <50 <0.10 <10 <1 <1 <1 <1 <1 <1	0.03 <0.10 33 <1 599 165.8 <1 27.2 <1 0.003 7.1 <1 28.2 7.29	<0.03 <50 <0.10 <0.10 3.7 638 78 218.3 3 48.3 48.3 2 <0.002 <0.02 7.1 0.04 <1 27.4 10.61	<0.03 20.10 27 3.2 588 121.9 <1 <0.002 7.4 <0.001 <1 26.9 6.03	0.03 <0.1 45 1.1 629 107.1 <1 8.3 1.2 <0.002 7.3 <0.016 <1 28.7	Color Colo	<pre>40.03 </pre> <0.03 <0.1 29 2.7 610 127.7 1.2 8.6 <0.002 7.3 <0.002 >2.5 7.68 11.5	 <0.03 <50 0.1 49 3.9 624 179.9 2.9 66.5 4.3 <0.002 7.7 <0.002 1.04 26.8 14.34 13 	<0.03 <50 <0.1 <55 5.6 660 nm <10.5 1.3 <0.002 7.1 nm <1 28 18.13	<0.03 <50 <0.1 <61 5.9 673 78 1 <0.1 <0.02 <1 28 19.1 14.9	<0.03 <50 <0.1 <0.1 50 5 5 662 <1 <0.002 7.3 <0.015 <1 28.4 15.39	<0.03 <50 <0.1 <0.1 <60 3.2 <667 <67 <1 3.5 <1.3 <0.002 <7.2 <0.015 1.23 28.4 <10.7	<0.03 <50 <0.1 29 5.9 603 <50 <1 <0.7 <1 <0.002 <7.3 <0.0005 <1 27.4 8.11	280 <0.03 <50 <0.1 111.18 29 7.7 628 1.1 <0.05 83 <0.150 <50 <1 4.40 6.1 <0.01 <1 <0.002 <0.002 <7.1 <1 27.0 7.42 7.2
Alkalinity Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Colform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate PH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Solids Temp Thallium Time sampled Tim (yg/1)	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 0. 5 1000 5 250 0 2500 0.05 0 0 2500 0.05 0 0.5 0 10 0 0.5 10 0 0 0.5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 11 mg/l N 10 1000 5 200 30 30 10 1000 50 10 35 20 10 35 20 0.10 35 20 0.10 35 50 15 150	150 0.175 7.5 7.5 3.75 187.5 37.5 187.5 1500	<0.03 <50 <0.10 <57 <1 701 701 227.3 5.2 17.5 <1 0.007 7 0.03 <1 27.7 8.29 nt	<0.03 <50 <0.10 <58 2.4 700 146.3 <1 <0.003 7.1 0.02 <1 28.1 11.09	0.03 <50 <0.10 68 4.1 709 164.7 <1 0.003 7.2 0.01 1.34 27.2 24.68	76.5 <0.10 120.78 71 <1 <1.20.78 71 <1.20.05 77 0.05 77 0.0150 121.2 4.1 5.87 14.9 <0.10 <1.0004 <0.02 7.3 <0.01 1.17 28.8 22.52 15.7	<0.03 <50 <0.10 <79 <1 733 174.7 2.7 12.2 <1 <0.003 7.4 <1 <2.7 12.2 <1 <0.01 <1 28.1	<0.03 <50 <0.10 <79 7.9 <755 176 2.3 <0.003 7.4 <0.01 1.25 28 2.3 <0.01 2.3 <0.01 2.3 <0.01 2.3 <0.01 2.3 <0.01 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3	0.09 <50 <0.10 82 <1 772 69 129 <1 7.4 2.4 <0.003 7.3 nm 2.13 28 38.05	0.08 <50 0.4 65 5.8 673 548.7 5.3 170.1 12.7 0.019 7.4 0.03 <1 27.8	<0.03 <50 <0.10 <44 <1 629 183 <1 0.005 7.2 <0.01 <1 27.8 8.14	0.03 <50 <0.10 50 <1 661 76 468.1 6.4 164.2 100.005 7.1 0.02 <1 27.3 9.55 11.35	####### 0.04 <50 <0.10 49 <1 659 136.2 <1	0.03 <0.10 33 <1 599 165.8 <1 27.2 <1 0.003 7.1 <1 28.2	<0.03 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	<0.03 27 3.2 588 121.9 <1 <0.002 7.4 <0.01 <1 26.9 6.03	107.1 41 1.2 4.002 7.3 4.1 28.7 15.82 15.82 1.1 4.	0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.05	<pre>40.03 <50 <0.01 29 2.7 610 127.7 1.2 8.6 <1 <0.002 7.3 <0.002 <1 28.5 7.68</pre>	 <0.03 <50 0.1 49 3.9 624 179.9 2.9 66.5 4.3 <0.002 7.7 <0.002 1.04 26.8 14.34 	<0.03 <50 <0.1 <55 5.6 660 nm <10.5 <1.3 <0.002 7.1 nm <1 28 28 18.13	<0.03 <50 <0.1 <61 5.9 673 78 1 <0.002 <1.28 19.1	<0.03 <50 <0.1 <50 50 5 5 <662 <1 <0.002 7.3 <0.002 4.1 28.4	<0.03 <50 <0.1 <60 3.2 <667 <67 <50 <1 3.5 <1.3 <0.002 <7.2 <0.015 1.23 28.4 23.35 <10.7	<0.03 <50 <0.1 29 5.9 603 <1 <1 <0.002 7.3 <0.0005 <1 27.4 8.11	<pre></pre>
Alkalinity Aluminium Aluminium Ammonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Coliform Co	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 0. 5 1000 5 250 0 2500 2000 0.05 0 0.8 200 25 50 1 1 20 0.5 6.5 - 9.5	200 11 mg/l N 10 1000 5 200 30 30 10 1000 50 10 35 20 10 35 20 0.10 35 20 0.10 35 50 15 150	150 0.175 7.5 7.5 3.75 187.5 37.5 187.5 1500	<0.03 <50 <0.10 <57 <1 701 96 17.5 17.5 227.3 5.2 17.5 41 0.007 7 0.03 <1 27.7 8.29	<0.03 <50 <0.10 <58 2.4 700 146.3 <1 <0.003 7.1 0.02 <1 28.1 11.09	0.03 <50 <0.10 68 4.1 709 164.7 <1 0.003 7.2 0.01 1.34 27.2 24.68	76.5 <0.10 120.78 71 <1 <1 <0.05 77 0 <0.150 77 0 <0.150 <1.150 <0.150 <1.150 <1.150 <0.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150 <1.150	<0.03 <50 <0.10 <79 <1 733 174.7 2.7 12.2 <1 < 0.003 7.4 <0.01 < 1 28.1 21.71	<0.03 <50 <0.10 79 7.9 755 176 2.3 10.7 2.3 <0.003 7.4 <0.01 1.25 28 26.9	0.09 <50 <0.10 82 <1 772 69 129 <1 7.4 2.4 <0.003 7.3 nm 2.13 28 38.05	0.08 <50 0.4 65 5.8 673 548.7 5.3 170.1 12.7 0.019 7.4 0.03 <1 27.8 8.91	<0.03 <50 <0.10 <44 <1 629 183 <1 0.005 7.2 <0.01 <1 27.8 8.14 11.5	0.03 <50 <0.10 50 <1 661 76 468.1 6.4 164.2 100.005 7.1 0.02 <1 27.3	####### 0.04 <50 <0.10 <10 <1 <1 <1 <1 <1 <1	0.03 <0.10 33 <1 599 165.8 <1 27.2 <1 0.003 7.1 <1 28.2 7.29	<0.03 <50 <0.10 <0.10 3.7 638 78 218.3 3 48.3 48.3 2 <0.002 <0.02 7.1 0.04 <1 27.4 10.61	<0.03 20.10 27 3.2 588 121.9 <1 <0.002 7.4 <0.001 <1 26.9 6.03	0.03 <0.1 45 1.1 629 107.1 <1 8.3 1.2 <0.002 7.3 <0.016 <1 28.7	Color Colo	<pre>40.03 </pre> <0.03 <0.1 29 2.7 610 127.7 1.2 8.6 <0.002 7.3 <0.002 >2.5 7.68 11.5	 <0.03 <50 0.1 49 3.9 624 179.9 2.9 66.5 4.3 <0.002 7.7 <0.002 1.04 26.8 14.34 13 	<0.03 <50 <0.1 <55 5.6 660 nm <10.5 1.3 <0.002 7.1 nm <1 28 18.13	<0.03 <50 <0.1 <61 5.9 673 78 1 <0.1 <0.02 <1 28 19.1 14.9	<0.03 <50 <0.1 <0.1 50 5 5 662 <1 <0.002 7.3 <0.015 <1 28.4 15.39	<0.03 <50 <0.1 <0.1 <60 3.2 <667 <67 <1 3.5 <1.3 <0.002 <7.2 <0.015 1.23 28.4 <10.7	<0.03 <50 <0.1 29 5.9 603 <50 <1 <0.7 <1 <0.002 <7.3 <0.0005 <1 27.4 8.11	280 <0.03 <50 <0.1 111.18 29 7.7 628 1.1 <0.05 83 <0.150 <50 <1 4.40 6.1 <0.01 <1 <0.002 <7.1 <1 0.0015 <1 7.7 7.42 7.2
Alkalinity Aluminium Aluminium Ammonia Antimony Arsenic Barium Beylilium Beylilium Be.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_COII Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite PH Phenol Potassium Sampling Depth Selenium Silver Sodium Strontium Sulphate Suspended Solids Temp Thallium Time sampled Tin (µg/I) T.O.C. T.O.N T.O.N Total S Solids Uranium	шg/I mg/I N ug/I ng/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 0. 5 1000 5 250 0 2500 0.05 0 0 2500 0.05 0 0.5 0 10 0 0.5 10 0 0 0.5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 111 mg/l N 10 1000 5 200 30 30 30 10 1000 55 200 10 1000 50 50 50 11 35 20 0.11 30 0.0005 5 150 200	150 0.175 7.5 7.5 3.75 187.5 37.5 187.5 1500	<0.03 <50 <0.10 <57 <1 701 96 227.3 5.2 17.5 <1 0.007 7 8.29 6.9 nt <1.5	<0.03 <50 <0.10 <58 2.4 700 146.3 <1 <0.003 7.1 0.02 <1 28.1 11.09	0.03 <50 <0.10 68 4.1 709 164.7 <1 0.003 7.2 24.68 12 11.55	238 0.03 <50 76.5 <0.10 120.78 71 <1 <1 <0.05 77 0 <0.150 121.2 4.1 5.87 14.9 <0.10 <10.004 <0.02 7.3 <0.01 1.17 28.8 22.52 15.7	<0.03 <50 <0.10 <79 <1 733 174.7 2.7 12.2 <1 <0.003 7.4 1.74.7 2.7 12.2 1.71 1.71 1.71 1.71 1.71	<0.03 <50 <0.10 <79 7.9 <755 176 2.3 <0.003 7.4 <0.01 1.25 28 1.25 28.9 15.5 11.5	0.09 <50 <0.10 82 <1 772 69 129 <1 7.4 2.4 <0.003 7.3 nm 2.13 28 38.05 15	0.08 <50 0.4 65 5.8 673 170.1 12.7 0.019 7.4 27.8 8.91 13	<0.03 <50 <0.10 <44 <1 629 183 <1 0.005 7.2 <0.01 <1 27.8 8.14 11.5 11.55	0.03 <50 <0.10 50 <1 661 76 468.1 6.4 164.2 6 0.005 7.1 27.3 9.55 11.35 <1.5	####### 0.04 <50 <0.10 49 <1 659	####### 0.03 <0.10 33 <1	<0.03 <50 <0.10 <0.10 3.7 638 218.3 3 48.3 2 <0.002 <0.02 7.1 0.04 <1 27.4 10.61 10 12 <1.5	<0.03 20.10 27 3.2 588 121.9 <1 <1 <0.002 7.4 <0.01 <1 26.9 6.03 12 11.4	107.1 45 1.1 629 107.1 41 8.3 1.2 40.002 7.3 40.016 41 28.7 10 11.55	1.00 1.00	<pre>40.03 </pre> <pre><0.03 </pre> <pre><0.1 29 2.7 610 127.7 1.2 8.6 </pre> <pre><1.2 </pre> <pre><1.2 </pre> <pre><1.2 </pre> <pre>1.2 </pre> <pre>1.2 </pre> 1.2 1.2 1.2 1.2 1.2 1.3 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.6 1.7 1.8 1.9 1	 <0.03 <50 0.1 49 3.9 624 179.9 2.9 66.5 4.3 <0.002 7.7 <0.002 1.04 26.8 14.34 13 11.35 	<0.03 <50 <0.1 <55 5.6 660 nm 10.5 1.3 <0.002 7.1 nn <1 28 18.13 16 11.5 <3.0	<0.03 <50 <0.1 <61 5.9 673 78 1 <0.002 <1 28 19.1 14.9 11.4	<0.03 <0.03 <0.1 <0.1 <0.1 <0.1 <0.1 <0.02 <0.02 <0.02 <0.03 <0.01 <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 <0.002 <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 <0.002 <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	<0.03 <50 <0.1 <60 3.2 <667 <67 <50 <1 3.5 <1.3 <0.002 <7.2 <0.015 1.23 28.4 23.35 10.7	<0.03 <50 <0.1 29 5.9 603 <50 <1 <1 <0.002 7.3 <0.0005 <1 27.4 8.11 10.5	280 <0.03 <50 <0.1 111.18 29 7.7 628 1.1 <0.05 83 <0.150 <50 <1 4.40 6.1 <0.01 <1.27.0 7.4 7.7 7.1 <0.002 7.1 7.1 7.2 10.4 11.55
Alkalinity Aluminium Anmonia Antimony Arsenic Barium Beryllium B.O.D. Boron Cadmium Calcium C.O.D. Chloride Chromium Cobalt Coliform Bacteria Conductivity Copper Cyanide D.O. E_Coli Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrite O-Phosphate PH Phenol Potassium Sampling Depth Selenium Silver Soddium Strontium Sulphate Suspended Solids Temp Thaillium Time gampled Tim (µg/I) T.O.C. T.O.N	ug/I mg/I N ug/I ug/I ug/I ug/I ug/I ug/I ug/I ug/I	200 0.23 mg/l N 0. 5 1000 5 250 0 2500 0.05 0 0 2500 0.05 0 0.5 0 10 0 0.5 10 0 0 0.5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 111 mg/l N 10 1000 5 200 30 30 30 10 1000 55 50 50 11 35 20 0.11 30 0.0005 5 150 200	150 0.175 7.5 7.5 3.75 187.5 37.5 187.5 1500	<0.03 <50 <0.10 <57 <1 701 96 227.3 5.2 17.5 <1 0.007 7 8.29 6.9 nt <1.5	<0.03 <50 <0.10 <58 2.4 700 146.3 <1 <0.003 7.1 0.02 <1 28.1 11.09	0.03 <50 <0.10 68 4.1 709 164.7 <1 0.003 7.2 24.68 12 11.55	238 0.03 <50 76.5 <0.10 120.78 71 <1 <1 <0.05 77 0 <0.150 121.2 4.1 5.87 14.9 <0.10 <10.004 <0.02 7.3 <0.01 1.17 28.8 22.52 15.7	<0.03 <50 <0.10 <79 <1 733 174.7 2.7 12.2 <1 <0.003 7.4 1.74.7 2.7 12.2 1.71 1.71 1.71 1.71 1.71	<0.03 <50 <0.10 <79 7.9 <755 176 2.3 <0.003 7.4 <0.01 1.25 28 1.25 28.9 15.5 11.5	0.09 <50 <0.10 82 <1 772 69 129 <1 7.4 2.4 <0.003 7.3 nm 2.13 28 38.05 15	0.08 <50 0.4 65 5.8 673 170.1 12.7 0.019 7.4 27.8 8.91 13	<0.03 <50 <0.10 <44 <1 629 183 <1 0.005 7.2 <0.01 <1 27.8 8.14 11.5 11.55	0.03 <50 <0.10 50 <1 661 76 468.1 6.4 164.2 6 0.005 7.1 27.3 9.55 11.35 <1.5	####### 0.04 <50 <0.10 49 <1 659	####### 0.03 <0.10 33 <1	<0.03 <50 <0.10 <0.10 3.7 638 218.3 3 48.3 2 <0.002 <0.02 7.1 0.04 <1 27.4 10.61 10 12 <1.5	<0.03 20.10 27 3.2 588 121.9 <1 <1 <0.002 7.4 <0.01 <1 26.9 6.03 12 11.4	107.1 45 1.1 629 107.1 41 8.3 1.2 40.002 7.3 40.016 41 28.7 10 11.55	1.00 1.00	<pre>40.03 </pre> <pre><0.03 </pre> <pre><0.1 29 2.7 610 127.7 1.2 8.6 </pre> <pre><1.2 </pre> <pre><1.2 </pre> <pre><1.2 </pre> <pre>1.2 </pre> <pre>1.2 </pre> 1.2 1.2 1.2 1.2 1.2 1.3 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.6 1.7 1.8 1.9 1	 <0.03 <50 0.1 49 3.9 624 179.9 2.9 66.5 4.3 <0.002 7.7 <0.002 1.04 26.8 14.34 13 11.35 	<0.03 <50 <0.1 <55 5.6 660 nm 10.5 1.3 <0.002 7.1 nn <1 28 18.13 16 11.5 <3.0	<0.03 <50 <0.1 <61 5.9 673 78 1 <0.002 <1 28 19.1 14.9 11.4	<0.03 <0.03 <0.1 <0.1 <0.1 <0.1 <0.1 <0.02 <0.02 <0.02 <0.03 <0.01 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 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1.23 28.4 23.35 10.7	<0.03 <50 <0.1 29 5.9 603 <50 <1 <1 <0.002 7.3 <0.0005 <1 27.4 8.11 10.5	280 <0.03 <50 <0.1 111.18 29 7.7 628 1.1 <0.05 83 <0.150 <50 <1 4.40 6.1 <0.1 <1.1 <0.02 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 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Date Collected		DWR	IGV	2010 GW Regs	####	### ###	##### ##	#####	####### ##	##### ##	#####	#######	#######	#######	#######	######	#######	#######	######	######	######	09-Aug-11	06-Sep-11	04-Oct-11	08-Nov-11	13-Dec-
Alkalinity	mg/l CaCO3				28													276								
Aluminium	ug/l	200	200	150																						1
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	<0.0	03 <	:0.03	0.03	<0.03 <	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Antimony	ug/l	5																								
Arsenic	ug/l		10	7.5																						
Barium	ug/l		100		28.	4	27	29.6	31.5	30.0	31.8	34.1	32.5	29.4	29.2	28.6	29.1	29.8	29.8	30.4	30.3	29.7	31	29.9	31.4	
Beryllium	ug/l																									
B.O.D.	mg/l O2																									
Boron	μg/l	1000	1000	750	45.	2												45.9								
Cadmium	μg/l	5	5	3.75	<0.	1 <	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	<1	<1	< 0.1	<1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Calcium	mg/l Ca		200		114.	31												140.91								
C.O.D.	mg/I O2																									
Chloride	mg/l Cl	250	30	187.5	31	Į.	38	48	60	61	61	53	36	33	27	27	25	27	37	51	58	68	71	77	42	44
Chromium	μg/l	50	30	37.5	<1	Į.	<1	0.5	<0.5	0.7	< 0.5	0.7	<5	<5	0.6	<5	2.5	< 0.5	0.6	0.6	<0.5	< 0.5	0.6	< 0.5	< 0.5	
Cobalt	μg/l																									
Coliform Bacteria	(No/100 ml)	0																								
Conductivity	µS/cm @ 25	2500	1000	1875	63	5 (606	637	657	666		655	643	630	624	631	638	453	626	593	644	658	659	714	762	717
Copper	μg/l	2000	30	1500	<1	Į.												< 0.5								
Cyanide	mg/l	0.05	10		<0.0	05												< 0.05								
D.O.	% Saturation				81	Į.			80			61				75		65			42			36		
E Coli	No/100 ml	0			2													nm								
Fluoride	mg/l	0.8	1000		<0.1	.50												< 0.150								
Iron	μg/l	200	200		<1	0 4	41.5	13.3	19.9	26.3	17.4	11.1	<100	<100	29.6	<100	17.6	<10	19.9	10.6	11	<10	<10	16.5	<10	
Lead	μg/l	25	10	18.75	<1	Į.	<1	<0.5	0.7	0.5	< 0.5	< 0.5	<5	<5	< 0.5	<5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Magnesium	mg/l Mg		50		4.9	4												6.44								
Manganese	μg/l	50	50		4	1	13.3	6.2	15.0	8.6	6.4	4.2	24.7	<10	4.6	<10	2.0	2.3	2.2	2.6	<1	<1	<1	<1	<1	
Mercury	μg/l	1	1	0.75	<0.	1												< 0.05								
Molybdenum	μg/l		35																							
Nickel	μg/l	20	20	15	<1	Į.	<1	<1	<0.5	0.9	0.6	0.8	<5	<5	< 0.5	<5	<0.5	0.6	0.8	0.7	0.8	0.9	1.1	1	<0.5	
Nitrite	mg/l N	0.5	0.1	0.375	<0.0	02 <0	0.002 <	0.002	<0.002 <	0.002	< 0.002	<0.002	nm	< 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
o-Phosphate	mg/l P		30		<0.0	02												< 0.02								
pH		6.5 - 9.5			7.:	1	7.2	7.3	7.2	7.2		7.4	7.3	7.4	7.1	7.6	7.3	7.3	7.2	7.3	7.3	7.3	7.4	7.3	7.3	7.2
Phenol	mg/l		0.0005		<0.0	15 <	<0.2	<0.1	<0.025 <	0.015	<0.015	<0.025	< 0.015	< 0.025	< 0.01	< 0.025	<0.025	<0.008	< 0.013	<0.008	<0.008	< 0.016	<0.016	< 0.016	< 0.025	
Potassium	mg/l		5		<1	L	<1	1.05	1.32	1.16	1.09	1.21	<2.5	<2.5	0.75	<2.5	0.52	0.93	0.88	1.27	0.93	1.17	1.23	1.36	1.12	
Sampling Depth	m				27.	5 2	27.7	27.8	28.9	28.2	28.2	nm	28.2	28.2	27.0	27.1	27.0	26.8	23.1	28.3	28.3	28.4	28.6	28.6	28.1	28
Selenium	μg/l	10																								
Silver	μg/l																									
Sodium	mg/l	200	150	150	10.5	52 1	2.11	18.5	19.66 2	1.41	21.87	21.81	11.99	9.61	10.95	9.41	8.23	13.43	16.01	19.53	19.92	24.41	31.53	36.73	17.09	
Strontium	μg/l																									
Sulphate	mg/I SO4	250	200	187.5	8.6	5												8.9								
Suspended Solids	mg/l																									
Temp	°C				14.	5	11	12	26.0	10.9	14.5	10.6	9.3	9.7	11.0	10.0	11.3	12	14	12.3	12.4	13	14.2	12.4	12.6	11.3
Thallium	μg/l																									
Time sampled					12.0	05 1	11.5 1	1.45	11.50 1	1.35	12.55	12:10	11:20	10:55	11:40	11.40	11:50	11:55	11:50	11:55	11(10	11:10	11:55	11:40	11:30	09:45
Tin (μg/l)	μg/l																				, 10°					
T.O.C.	mg/l	NAC			<1.	5			<1.5			61.7				2.1		58.4		200	1.8			55.7		
T.O.N	mg/l N		NAC		<0.0	08 <	0.08	0.08	0.09 <	0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0,1	<0.08	<0.08	<0.08	<0.08	<0.08	0.09
Total S Solids	mg/l																		1.	4						1
Uranium	μg/l																		22.	M.						
Vanadium	μg/l																		07.4	•						
																										+
Zinc	μg/l		100		3.4	4	1.7	2.2	3.4	4.0	2.5	2.7	29.5	23.2	4.6	24.9	3.0	2.9 👌	5 . 50	10.8	14	5.2	6.7	11.3	37.8	

																BOREHOL	E BH9A			OUT POI	III							
Date Collected	T .	DWR	IGV	2010 GW Regs	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######				#######			#######	#######	######	07-Aug-1	3 17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity	mg/I CaCO3							250											10	268								
Aluminium	ug/l	200	200	150				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	20.4	000	<5	<5	18.7	<5	<5	<5	<5	<10	<10
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	< 0.03	< 0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	Q<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.020	0.026
Antimony	ug/l	5						< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	707	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1
Arsenic	ug/l		10	7.5				< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	N. 90	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1
Barium	ug/l		100		31.3	30.2	29.5	29.8	32.4	29.2	28.7	33.2	30.7	31	28.9	26.3	29.2	29.6	Y-	26.2	24.2	27.9	28.2	26.8	27.9	28.6	29.2	28.6
Beryllium	ug/l							<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5		<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<1	<1
B.O.D.	mg/l O2																	٧										
Boron	μg/l	1000	1000	750	46.5	47.3	47.1	68.6	61.3	65.8	32.3	34.8	40	73	38.3	31.7	24.7	23.7		25.3	30.6	69.5	112.2	108.5	117.3	109	86.8	78.8
Cadmium	μg/l	5	5	3.75	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	< 0.02
Calcium	mg/l Ca		200		113.93	121.76	104.5	91.62	111.64	114.34	114.1	107.42	107.57	111.22	110.22	103.72	109.07	108.06		106.02	97.02	94.68	80.88	75.04	73.45	82.83	86.84	89.65
C.O.D.	mg/l O2															(~ O ^v											
Chloride	mg/l Cl	250	30	187.5	34	33	33	44	43	43	25	26	29	37	24	23	19	18	16	16	23	38	54	56	60	57	48	42
Chromium	μg/l	50	30	37.5	<0.5	0.9	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	0.5	1.2	1.1	0.7	<0.5	1.7		1.3	1	0.7	1	<0.5	<0.5	1.9	<1	2
Cobalt	μg/l	_						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1
Coliform Bacteria	(No/100 ml)	0	4000	4075	700		600	51	040	000	050	044	004		0.15	011	504	504	550	3	504	500	F70	500	500	000	000	000
Conductivity	µS/cm @ 25	2500 2000	1000 30	1875 1500	702	644	630	627 <0.5	618 0.6	690 3.2	656	641	634	656 1.2	647	611	591	581	556	559	561 0.5	569 1	573	580	590 0.9	0.6	608	603
Copper	μg/l			1500	0.8	1.1	0.6		0.0	3.2	<0.5	4	<0.5	1.2	- 1	0.5	0.8	1.1		<0.5	0.5	- 1	0.7	8.0	0.9	0.6	<1	<1
Cyanide D.O.	mg/l % Saturation	0.05	10		58			<0.05			64			48			66			<0.05 63			26			24		
E Coli	No/100 ml	0			36			11			04			40			00			0.0			20			24		
Fluoride	mg/l	0.8	1000					<0.150												<0.150								
Iron	µg/l	200	200		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	24.4	11.7		<10	<10	34.5	<10	<10	16.8	<10	<10	<10
Lead	µg/l	25	10	18.75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	< 0.5	0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1
Magnesium	mg/l Mg		50	10.70	5.48	5.6	4.89	4.9	5.24	4.91	5.04	4.73	4.92	5.78	5.21	4.87	4.26	4.41		4.55	4.28	4.88	5.16	4.78	4.74	4.9	4.89	5.03
Manganese	μg/l	50	50		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.8	<1	2.2	7.4		1.1	<1	13	<1	<1	<1	<1	<5	<5
Mercury	μg/l	1	1	0.75	nm	nm	nm	<0.05	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm		<0.05	nm	nm	nm	nm	nm	nm	nm	nm
Molybdenum	μg/l		35					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1
Nickel	μg/l	20	20	15	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	1.1	2.4	1.7	2.5	2	1.9	1.6	1.1
Nitrite	mg/l N	0.5	0.1	0.375	< 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	< 0.004	< 0.004
o-Phosphate	mg/I P		30					0.02												0.02								
pH		6.5 - 9.5			7.2	7.2	7.2	7.2	7.3	7.3	7.2	7.2	7	7.2	7	7.1	6.8	7.3	7.2	7.3	7.2	7.3	7.4	7.5	7.4	7.4	7.3	7.2
Phenol	mg/l		0.0005		< 0.002	< 0.002	< 0.002	< 0.025	<0.002	< 0.025	< 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
Potassium	mg/l		5		1.02	0.92	1.09	1.13	1.28	1.52	0.72	0.84	0.83	1.97	0.84	0.71	0.63	0.66		0.97	1.08	1.31	2.45		2.5	2.55	2	1.81
Sampling Depth	m				28.1	27.7	28	28	25.9	28.2	28	28.1	26.4	27.9	26.8	27.8	26.5	25.3	26.2	27.3	27	27.4	28.7	27.5	28.1	27.1	27.5	28
Selenium	μg/l	10						<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	0.5	<0.5	< 0.5	< 0.5		<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<1	<1
Silver	μg/l							<0.5	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm		nm								
Sodium	mg/l	200	150	150	15.88	13.57	15.23	21.2	20.75	20.49	9.76	10.78	11.94	20.62	10.98	9.7	7.16	7.33		8.81	10.29	21.46	31.21	30.46	31.43	30.16	24.85	21.42
Strontium	μg/l							116.83	123.97	126.59	135.72	123.61	129.38	123.06	124.93	109.51	119.54	123.42		116.71	110.48	110.3	99.91	103.42	94.35	107.75	109.47	107.5
Sulphate	mg/I SO4	250	200	187.5				12.3												6								
Suspended Solids	mg/l						44.0	40	40	40.5	45.0		40.0			10.0	0.4	40.4	0.0	40.0	40.5	40.0	44.0	40.0	40.5	44	0.7	0.7
Temp	°C				11.2	11.5	11.8	13	13	12.5	15.8	14	12.2	15	10.2	10.3	9.1	10.1	9.8	10.6	10.5	10.6	11.8	12.3	10.5	11	9.7	8.7
Thallium	μg/l				44.00	44.55		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	44.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1
Time sampled	µg/l				11:20	11:55	11:15	0.47222 <1	0.47917	0.47569	10:40	11:00	11:05	11:20	11:00	11:15	11:30	11:15	11:25	10:55	11:30	11:05	12:10	11:15	11:45	12.05	13:00	11:35
Tin (μg/I) T.O.C.	μg/I mα/I	NAC			66.8	-		55.9	<1	<1	<1 2.1	<1	<1	<1 <1.5	<1	<1	nm 70.7	nm		nm <1.5			1.6	-		2.3		1
T.O.C.	mg/l N	NAC	NAC		<0.08	<0.08	<0.08	<0.08	0.34	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0.16	<0.08	0.08	<0.08	<0.08	0.16	0.23	<0.08	<0.20	<0.20
Total S Solids	mg/l		NAC		<0.08	<0.08	<0.08	<0.08	0.34	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0.10	<0.08	0.08	<0.08	<0.08	0.16	0.23	<0.08	<0.20	<0.20
Uranium	µg/l				1	1	 	0.25	0.24	0.26	0.29	0.29	0.31	0.28	0.27	0.25	0.27	0.28		0.27	0.25	0.27	0.23	0.24	0.24	0.24	<1	<1
Vanadium	µg/I				I	 		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.24	<1	<1
Zinc	μg/I μg/I		100		7.1	8	4.7	<0.5 3	4.9	6.3	3.7	11.9	2	4.1	<0.5 6	2.8	6.4	3.1		4.8	4.4	3.5	2.7	4.2	5.1	7.6	21.2	5.6
ZIIIC	μ9/1		100		7.1	ŏ	4./	ა	4.9	0.3	3.1	11.9		4.1	ь	2.8	0.4	3.1	1	4.8	4.4	3.5	2.1	4.2	5.1	7.0	21.2	0.0

															BOR	EHOLE B	BH10A											
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	######	#######	######	#######	#######	#######	#######	#######	#######	######	#######	#######	#######	#######	#######	#######	#######	28-Aug-07	25-Sep-07	24-Oct-07	28-Nov-07	18-Dec-07
Alkalinity	mg/l CaCO3							140												159				_				
Aluminium	ug/l	200	200	150																								
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	0.05	< 0.03	< 0.03	< 0.03	0.03	0.49	0.9	0.73	0.51	0.26	0.08	< 0.03	0.05	0.08	0.03	0.05	0.10	0.13	0.09	0.08	< 0.03	< 0.03	< 0.03	< 0.03
Antimony	ug/l	5																										
Arsenic	ug/l		10	7.5																								
Barium	ug/l		100		75.8	75.3	< 0.03	79.1	70.7	91.3	91.9	87.7	106.8	<500	89.9	59	57.6	59.5	69.0	60.8	76.4	100.7	69.4	54.8	<50	62.6	nm	<50
Beryllium	ug/l																											
B.O.D.	mg/l O2																											
Boron	μg/l	1000	1000	750				293.5												228.5								
Cadmium	μg/l	5	5	3.75	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.2	<0.10	<0.10	<0.10	0.6	<0.10	<0.10
Calcium	mg/l Ca		200					44.45												51.65								
C.O.D.	mg/l O2																											
Chloride	mg/l CI	250	30	187.5	129	134	94	132	137	134	135	146	154	130	113	95	97	104	120	116	124	142	135	107	109	134	92	125
Chromium	μg/l	50	30	37.5	6.4	2.7	3.7	2.3	<1	<1	2.5	2.5	3.4	12.3	5	2.5	3.8	3.4	3.2	<1	<1	4.0	2.3	<1	<1	<1	<1	<1
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	μS/cm @ 25	2500	1000	1875	794	776	656	795	760	819	851	831	253	772	687	626	666	702	739	738	811	739	717	711	728	714	712	727
Copper	μg/l	2000	30	1500				8.7												3.8								
Cyanide	mg/l	0.05	10					< 0.05												< 0.05								
D.O.	% Saturation				51			53			53			60			51			50			60			41		
E_ Coli	No/100 ml	0						2																				
Fluoride	mg/l	0.8	1000					<0.150												<0.150								
Iron	μg/l	200	200		268.4	119.6	192	424.4	81.2	159.4	608.7	793.1	399.6	2464.5	1938.1	719.1	601.6	951.8	694.4	283.2	375.5	1822.9	1114.7	273.7	154.7	151.7	287.2	210.8
Lead	μg/l	25	10	18.75	2.8	<1	<1	2.3	<1	<1	<1	<1	<1	<10	9.7	3.3	<1	5.0	3.3	<1	<1	6.6	4.4	<1	<1	2.0	<1	<1
Magnesium	mg/l Mg		50					11.31												9.64								
Manganese	μg/l	50	50		139.6	67.4	50.1	164	245.6	1021.3	1357	1336.3	1206.9	810	320.5	74.5	54.2	129.3	104.2	26.2	279.9	454.7	316.8	124.0	15.4	22.5	43	36
Mercury	μg/l	1	1	0.75				0.5												<0.10								
Molybdenum	μg/l		35											01.0														
Nickel	μg/l	20	20	15	8.2	6.5	5.9	8.9	9.9	10.4	12.8	11.3	9.7	21.2	14.8	7.9	6.9	8.4	8.7	7.4	11.5	17.0	13.4	7.2	8.2	7.4	8.6	7.7
Nitrite	mg/l N	0.5	0.1	0.375	<0.003	0.004	< 0.003	0.004	0.006		<0.003	0.003	<0.003	0.009	0.033	0.011	0.024	0.024	0.010	0.007	0.018	nm	0.013	0.004	0.004	0.007	0.003	0.006
o-Phosphate	mg/l P		30					<0.02												0.03								
pн		6.5 - 9.5			7.7	7.9	7.7	7.7	7.8	7.8	7.7	7.9	7.8	7.7	7.7	7.8	7.8	7.1	7.5	7.7	7.6	7.8	7.8	7.8	7.8	7.7	7.7	7.7
Phenol	mg/l		0.0005		0.014	<0.001	0.003	<0.001	0.087	0.119	0.005	0.011	0.005	0.005	0.009	<0.001	0.041	0.018	<0.001	nm	<0.01	nm	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Potassium Samuling Danth	mg/l		5		13.45 27.2	13.34	10.73	14.24 27.2	17.73 27.6	13.71	17.22 27	15.96 24.4	15.79 25.8	16.75 27.9	13.43 27.5	9.43 27.5	7.38 27.0	8.45 26.8	10.50 27.1	9.72 27.3	14.62 27.4	13.97 27.1	13.36	12.98 26.8	12.79 23.5	13.99 26.9	15.06 24.8	13.69 27.6
Sampling Depth	m /	10			21.2	26.8	27.4	21.2	21.0	27	21	24.4	20.0	21.9	21.5	21.5	21.0	20.0	21.1	21.3	21.4	21.1	26.0	∠0.6	23.5	20.9	24.0	21.0
Selenium Silver	μg/l	10						1	1	1	-							-	-					-	1	-		
Sodium	μg/l mg/l	200	150	150	74.77	62.24	63.61	69.39	84.79	64.79	84.86	70.2	77.98	78.57	75.68	>50	38.84	51.62	57.52	58.01	78.73	61.26	70.49	70.87	71.02	74.70	76.73	77.08
Strontium	µg/l	200	130	150	14.11	02.24	03.01	09.39	04.19	04.79	04.00	10.2	11.50	10.01	75.00	200	30.04	31.02	31.32	30.01	10.13	01.20	70.49	10.01	11.02	14.10	10.13	11.00
Sulphate	mg/l SO4	250	200	187.5	+			33.2	1	1	1					1	1	1	1	34.5	1	1		1	1	1		1
Suspended Solids	mg/l SO4	200	200	101.0	1			33.2	1	1	1			-	-		1	1	1	34.0				1	1	1		1
Temp	°C				10	7	6	13.1	13	14	22	17	11	14.3	11	8	9.7	11.0	10.0	12.6	14.0	14.0	20.1	14.0	16.0	14.1	13	11
Thallium	μg/I				10		U	10.1	10	17		17	- 11	14.5	- ''	0	3.1	11.0	10.0	12.0	14.0	14.0	20.1	14.0	10.0	14.1	10	- ''
Time sampled	ру/1	+			-			12.15	12.15	12.25	13	12.15	12	11.5	12.1	12.1	12.30	11.55	12.15	12.20	12.15	12.40	12.45	12.15	12.20	12.15	10.2	12.35
Tin (µg/l)	µg/l				+			12.13	12.13	12.20	10	12.10	12	11.5	12.1	12.1	12.00	11.55	12.13	12.20	12.13	12.40	12.43	12.13	12.20	12.10	10.2	12.00
Τ.O.C.	mg/l	NAC			68.4			8	 	 	a			6.7		-	4.4	+	 	6.7		18°	9.5	+	1	7.0		1
T.O.N	mg/l N	IIAO	NAC		0.65	0.87	1.29	0.58	0.09	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	0.44	0.63	1.35	1.52	1.50	1.58	0.320	0.32	0.31	0.23	0.23	0.22	0.81	0.84
Total S Solids	mg/l	+	NAC		0.03	0.07	1.23	0.00	0.03	<0.03	<u> </u>	~0.00	~U.UJ	<0.03	0.44	0.00	1.00	1.02	1.50	1.50	0.520	0.02	0.01	0.23	0.23	0.22	0.01	0.04
Uranium	µg/l																				10				1	1		
Vanadium	μg/I	+			-			 	 	 	I			-	-			+	I	14.	<i>K</i> 3			†	1	 		
Zinc	μg/i uα/l		100		5.8	3	2.2	9.7	3.7	2.8	4.2	6.7	<1	54.4	20.1	8	7.6	9.4	7.4	00×1× 0	6.5	15.8	29.5	9.7	5.4	6.4	3.6	<1
LIIIO	lha.		100		0.0		۷.۷	J.,	0.7	2.0	7.2	0.7		57.7	20.1		7.0	J.7		0'X0	0.0	10.0	20.0	5.7	0.7	0.4	0.0	``

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																			05	, eg								
															BOR	EHOLE B	H10A		~ K	Ç.								
Date Collected		DWR	IGV	2010 GW Regs	#######	######	######	######	######	#######	#######	#######	#######	#######				######			#######	#######	#######	18-Aug-09	29-Sep-09	20-Oct-09	17-Nov-09	08-Dec-09
Alkalinity	mg/l CaCO3							140										0	(CO	129								
Aluminium	ug/l	200	200	150														707	05°								-	
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	0.11	0.03	0.05	< 0.03	0.03	< 0.03	0.04	0.05	< 0.03	0.04	0.07	0.04	< 0.03	20.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03
Antimony	ua/l	5																50										
Arsenic	ug/l		10	7.5													:400	W										
Barium	ug/l		100		<50	<50	54	80	70.3	<50	<50	<50	<50	<50	<50		50	<50	62.6	57.7	57.6	51.9	<50	<50	<50	<50	<50	<50
Beryllium	ug/l																50 T											
B.O.D.	mg/l O2																, of,											
Boron	μg/l	1000	1000	750				302.2									¢ 0			263.6								
Cadmium	μg/l	5	5	3.75	< 0.10	<0.10	<0.10	< 0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	< 0.10	<0.1	<0.1	<0.1	0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Calcium	mg/l Ca		200					58.76								-01				44.63								
C.O.D.	mg/l O2															250												
Chloride	mg/l Cl	250	30	187.5	39	63	99	125	133	>80	76	124	118	60	76 🗻	93	94	93	102	102	109	111	89	100	92	97	47	77
Chromium	μg/l	50	30	37.5	3.3	<1	3.4	<1	<1	3.6	<1	2.4	<1	<1	<1	×1	<1	1.9	<1	1.5	1.2	2.7	3.1	1.9	1.91	1.7	3.0	3.3
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	µS/cm @ 25	2500	1000	1875	344	555	616	736	730	655	516	609	605	418	515	567	597	594	651	642	610	577	537	568	576	604	411	536
Copper	μg/l	2000	30	1500				5.4												3.8								
Cyanide	mg/l	0.05	10					< 0.05												< 0.01								
D.O.	% Saturation				91			73			51			64			74			69			nm	45		18		
E_ Coli	No/100 ml	0						6																260				
Fluoride	mg/l	0.8	1000					<0.150												<0.150								
Iron	μg/l	200	200		1403.6	290	688.6	407.3	545	230.4	278.3	448.4	105.8	435.5	416.5	223.1	167.2	107.7	227	206.9	428.8	534.9	365	238.6	126.77	159.0	156.4	178.5
Lead	μg/l	25	10	18.75	4.3	<1	3	2.7	<1	<1	<1	2.7	<1	2.3	3.1	<1	<1	<1	<1	1.5	1.6	2.2	1.3	1.2	<1	<1	1.5	1.6
Magnesium	mg/l Mg		50					13.34												11.05								
Manganese	μg/l	50	50		56.9	27.1	57.1	120.3	190.1	93.8	46.1	213.8	18.3	58	56	22.8	23.1	13.2	58.6	93.6	123	273.6	164.1	181.1	44.21	102.4	31.9	34.1
Mercury	μg/l	1	1	0.75				<0.10												<0.1								
Molybdenum	μg/l		35																									
Nickel	μg/l	20	20	15	6.3	4.1	7.6	8.8	9.2	8.5	5.3	8.6	5.3	4.6	5	5.6	5.7	3.7	6.7	6.4	7	8.7	6.9	6.7	5.28	6.0	2.8	3.4
Nitrite	mg/l N	0.5	0.1	0.375	0.089	0.012	0.027	0.006	0.004	0.009	0.013	0.762	< 0.003	0.02	0.017	0.008	<0.002	<0.002	<0.002	< 0.002	< 0.002	< 0.002	<0.002	< 0.002	< 0.002	< 0.002	<0.002	<0.002
o-Phosphate	mg/l P		30					0.02									< 0.02			0.03								
pH		6.5 - 9.5			7.8	7.8	7.8	7.7	7.8	8	7.9	8.1	8	8	7.9	7.9	7.8	8	7.7	7.8	7.8	7.9	7.7	7.9	8	7.7	7.8	7.7
Phenol	mg/l		0.0005		0.03	0.02	0.01	< 0.01	<0.01	<0.01	nm	0.03	< 0.01	0.03	<0.01		< 0.01	< 0.01	< 0.016	< 0.002	< 0.002	< 0.002	nm	< 0.002	< 0.015	< 0.015	<0.0005	<0.015
Potassium	mg/l		5		4.55	6.81	10.07	13.29	10.21	11.4	9.38	13.07	11.31	7.4	8.84	9.65	10.98	8.49	11.52	10.82	11.64	12.39	11.02	10.44	10.57	13.02	6.75	7.83
Sampling Depth	m				25.9	26.4	26.1	27.4	27.8	27.5	27.5	25.9	25.1	26.9	27.1	27	26.8	25	27.9	26.8	26.8	25.9	27	27.7	26.1	26.7	25.7	25.8
Selenium	μg/l	10																										
Silver	μg/l																											
Sodium	mg/l	200	150	150	27.1	41.36	66.44	69.47	56.82	64.44	45.74	67.51	59.14	34.23	45.4	57.79	59.72	47.06	59.15	57.33	60.41	55.57	52.86	54.95	54.54	64.27	30.70	38.67
Strontium	μg/l																											
Sulphate	mg/I SO4	250	200	187.5				42.9												31.2								
Suspended Solids	mg/l																											
Temp	°C				7	12	12	11	13	16.8	16.5	14	15	10.4	11	12	8.7	13	11	11.5	12.9	17	17	17	15.4	14.2	12.5	11.3
Thallium	μg/l				1		10.15		10.15		10.15						L							1				
Time sampled					nt	12.1	12.15	12.2	12.15	12.25	12.45	12.15	12.2	11.55	12.05	11.2	12.2	12	12.15	12.15	12.2	11.55	12.2	12	12.05	11.53	10.20	12.20
Tin (μg/l)	μg/l							0.7			4.5			0.0														1
T.O.C.	mg/l	NAC			2.2			6.7			<1.5		0.00	3.3			5.2			5.5			6.6			8.0		
T.O.N	mg/l N		NAC		0.88	1.63	1.47	0.84	0.32	0.14	0.82	0.13	0.23	0.57	0.38	0.29	0.8	0.35	0.18	0.18	0.13	0.21	0.2	0.15	0.09	0.14	0.51	0.60
Total S Solids	mg/l																<u> </u>											1
Uranium	μg/l																											4
Vanadium	μg/l				40.7	0.4	7.4	0.7		40.0	0.5	0.0	0.4			_				4.0								
Zinc	μg/l		100		10.7	3.4	7.1	6.7	<1	10.9	3.5	8.2	2.1	11.6	5.9	5	6.5	3.8	3.4	4.9	4.4	7	4.7	3.5	137.55	6.3	6.4	4.4

															ROP	EHOLE B	H10A											
Date Collected		DWR	IGV	2010 GW Regs		######		1			******	*******	*****						******	*****				00 Aug 11	06-Sep-11	04 Oct 11	00 Nov 11	12 Dog 1
Alkalinity	mg/l CaCO3	DVVK	iGV	2010 GW Regs	********	******	*******	156	********	******	******	*******	*******	******	******	******	******	******	*******	164	******	******	******	U9-Aug-11	00-3ep-11	04-001-11	00-1404-11	13-Dec-1
Aluminium	ug/l	200	200	150				130												104								+
Ammonia	mg/l N		0.11 mg/l N	0.175	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	0.04	0.09	<0.03	<0.03	<0.03
Antimony	ug/l	5.23 mg/m	U.III III g/III	0.175	\0.03	V0.03	\0.03	\0.03	NO.03	\0.03	\0.03	\0.03	\0.03	\0.03	\0.03	V0.03	\0.03	\0.03	\0.03	\0.03	\0.03	\0.03	V0.03	0.04	0.03	₹0.03	\0.03	V0.03
Arsenic	ug/l		10	7.5																								+
Barium	ug/l		100	7.0	53.4	62.4	77.4	75.3	67.6	61.8	45.5		61.8	51.3	93.3	50.4	49.6	49.2	59.9	62.1	57.3	53.8	43.7	38.1	47.5	51.2	47.5	+
Bervllium	ug/l		100		33.4	02.4	77.4	75.5	07.0	01.0	43.3		01.0	31.3	33.3	30.4	45.0	73.2	33.3	02.1	37.3	33.0	43.7	30.1	47.5	31.2	47.5	+
B.O.D.	mg/I O2																											+
Boron	μg/l	1000	1000	750				225.7												256								1
Cadmium	μg/l	5	5	3.75	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	+
Calcium	mg/l Ca		200	0.1.0	10.1	10.1	10.1	51.49	10.1	10.1	10.1		10.1	10.1				10.1	10.1	57.26	10.1	10.1	10.1	10.1	10.1	10.1	10.1	+
C.O.D.	mg/l O2		200					31.43												37.20								+
Chloride	mg/l Cl	250	30	187.5	79	89	90	90	81	95	92	88	95	88	85	84	72	59	77	84	84	82	86	87	81	80	74	73
Chromium	μg/l	50	30	37.5	<1	<1	<1	<1	<1	<0.5	<0.5	- 00	<0.5	<0.5	<5	<5	<5	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	+
Cobalt	μg/l	- "		00		12	1.2	12	1.2	10.5	10.5		10.5	10.5	- 13	- 13		1.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	-0.5	+
Coliform Bacteria	(No/100 ml)	0																										+
Conductivity	uS/cm @ 25	2500	1000	1875	550	599	636	642	644	617	555	572	617	572	549	542	519	500	593	621	584	546	546	543	560	621	640	604
Copper	μg/l	2000	30	1500	330	333	030	3	011	017	555	372	017	372	515	JIL	313	500	333	1.9	501	3.10	310	3.3	300	021	0.0	
Cyanide	mg/l	0.05	10					<0.05												<0.05								1
D.O.	% Saturation	0.00			70			53			48			35			88			54			49			15		1
E Coli	No/100 ml	0			,,,			6			-10			- 55						nm			- 13			13		1
Fluoride	mg/l	0.8	1000					<0.150												<0.150								+
Iron	μg/l	200	200		188.5	79.5	77.1	156.5	147.2	57.8	34.6		57.8	56.0	1381.4	<100	100.7	87.3	36.1	43.1	134.9	10.7	12	<10	44.4	<10	<10	1
Lead	μg/l	25	10	18.75	2.1	<1	<1	1	<1	<0.5	<0.5		<0.5	<0.5	6.2	<5	<5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1
Magnesium	mg/l Mg		50					10.34									-	0.0		12.99								1
Manganese	μg/l	50	50		34.4	14.9	21.3	68.5	98.7	28.2	19.5		28.2	64.7	719.5	14.3	19.0	11.7	5.9	11.2	22.2	3	2.3	<1	277	61.3	3.9	+
Mercury	µg/l	1	1	0.75				<0.1						•					0.0	< 0.05								+
Molybdenum	μg/l		35																									+
Nickel	μg/l	20	20	15	4	4.7	5.3	5	5.5	5.2	4.7		5.2	5.3	12.1	5.6	5.2	2.2	3.6	4.6	4.2	4.7	4.5	4.6	6.1	4.1	3.1	+
Nitrite	mg/l N	0.5	0.1	0.375	<0.002	0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	nm	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	0.005	0.003	<0.002	< 0.002
o-Phosphate	mg/I P		30					<0.02												<0.02								1
pH		6.5 - 9.5			7.7	7.8	7.8	7.6	7.6	7.7	7.9	7.9	7.7	7.9	8.0	7.8	8.2	7.6	7.8	7.8	7.7	7.8	7.9	7.8	7.9	7.7	7.8	7.7
Phenol	mg/l		0.0005		< 0.015	< 0.015	< 0.015	< 0.015	<0.2	<0.1	< 0.025		<0.1	< 0.025	< 0.015	< 0.025	< 0.025	< 0.025	< 0.01	< 0.013	< 0.013	<0.008	<0.008	< 0.016	nm	< 0.016	< 0.025	1
Potassium	ma/l		5		7.91	10.14	11.27	10.25	10.37	11.59	10.91		11.59	12.04	10.18	9.22	8.54	6.33	9.06	11.25	10.05	9.79	8.42	11.17	11.15	11.07	9.79	1
Sampling Depth	m				25.2	23.5	25.3	23	25.5	25.6	26.2		25.6	nm	26.1	26.0	24.2	25.8	25.1	25.2	20.2	28	26.3	26.6	26.9	26.9	26	26.8
Selenium	μg/l	10																										
Silver	μg/l																											1
Sodium	mg/l	200	150	150	40.28	53.46	56.27	52.85	47.79	57.04	47.20		57.04	61.78	52.50	46.08	42.10	34.68	47.80	54.91	51.53	47.14	40.98	48.86	53.86	52.47	45.4	
Strontium	μg/l																											
Sulphate	mg/I SO4	250	200	187.5				29.2												27.3								1
Suspended Solids	mg/l																											
Temp	°C				7.8	5.1	6	14	12	16	26.0		16.0	14.0	10.8	6.4	6.1	9.3	9.0	12	15	15.6	17.1	16	16.7	15.8	12.9	12.3
Thallium	μg/l																											1
Time sampled					12	12	11.55	12.35	12.1	12.15	12.20		12.15	12:40	12:20	11:20	12.05	12:10	12:10	12:30	12:10	2:20	11:35	11:40	12:15	12:10	11:45	10:15
Tin (μg/l)	μg/l																					1						1
T.O.C.	mg/l	NAC			6.2			5.8			5.2			34.9			6.1			39.5	్లులో	>	8.1			38.7		
T.O.N	mg/l N		NAC		0.5	0.51	0.42	0.43	0.33	0.23	0.13	<0.08	0.23	<0.08	0.11	0.27	0.23	0.42	0.28	<0.08	0.19	0.12	0.17	0.08	0.29	0.15	0.12	0.2
Total S Solids	mg/l																			4	10				1	1		1
Uranium	μg/l								1											22, 3	123							1
Vanadium	µg/l																			OS 7.	1				1	1		1
Zinc	μg/l	1	100		6	2.2	2.3	3.2	1.4	1.6	1.8	1		2.7	45.1	27.8	25.2	3.6	1.5 0	. 18	5.9	6.7	4.6	4.5	8.5	4	4.1	1

															200				W W	<u> </u>								
Date Collected	T	DWR	ICV	2010 GW Regs	Тининини	Пининини	Пининини	Тининини	пининии		шининин	шинини	шинини	шинини		EHOLE B		Тининий	<u> </u>	шишиши		шининии	шишиши	07 4 42	47 Cam 42	08-Oct-13	40 Nov. 42	02 Dec 42
Alkalinity	mg/l CaCO3	DWK	IGV	2010 GW Regs	#######	******	******	122	#######	#######	#######	#######	#######	#######	#######	#######	#######	******	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		#######	#######	#######	07-Aug-13	17-Sep-13	08-Oct-13	19-NOV-13	03-Dec-13
· ·····y	ug/l	200	200	150				5.1	8.8	5.5	6.3	6.5	6.6	9	11.9	5.1	5.8	99.5	ξ ^γ	135	6.6	200.3	10.3	6.3	13.3	11.9	14	<10
Aluminium Ammonia				0.175	<0.03	<0.03	0.03	< 0.03	<0.03	< 0.03	< 0.03	0.03	< 0.03	-			<0.03	0 < 0.03	<0.03	16.2 <0.03	< 0.03	< 0.03	<0.03	0.15	0.05	<0.03	<0.020	0.049
	mg/l N	0.23 mg/l N 5	U.11 mg/IN	0.175	<0.03	<0.03	0.03	<0.03	<0.03	<0.03	<0.03	<0.5	<0.03	<0.03	<0.03	<0.03	<0.03	×0.5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.5	<0.5	<0.03	<0.020	<1
Antimony	ug/l	5	40	7.5				0.64					1.37		1.07	0.91	. 0.76	4.3/									<1	
Arsenic Barium	ug/l		10 100	7.5	47.8	43.5	47.1	43.2	0.77 44.1	0.86 38.1	0.76 30.5	1.1 31	28.4	1.23			40.3	36.2		0.57 39.6	0.63 47.3	1.23 53.9	1.78 58.7	2.45 65.7	1.56 58.6	1.25 63.3	68.6	<1 72.3
	ug/l		100		47.8	43.5	47.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	26.1 <0.5	29.1 <0.5	30.4 <0.5	<0.5	< 0.5		<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5		
Beryllium	ug/l							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	40.8	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1
B.O.D.	mg/l O2	1000	1000	750	176.1	158.5	184.2	174.5	183.9	185.7	175.6	407	183.4	212.4	159.3	179.9	127.7	98.4		139.6	172.1	191.8	206.4	193.6	194.7	204.2	191.6	186.9
Boron	μg/l			3.75	176.1		-					187																
Cadmium	µg/l	5	5 200	3./5	<0.1 40.39	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1 41.82	<0.1 43.75	<0.1 42.68	<0.1	<0.1	<0.1 41.5	<0.1	<0.1
Calcium	mg/l Ca		200		40.39	42.58	39.62	37.49	37.7	35.55	27.56	23.9	23.18	26.98	30.5	28.99	41.9	41.64		46.86	41.02	43.75	42.00	40.85	38.97	41.5	42.65	42.38
C.O.D.	mg/l O2	050		407.5				70	70	07	07	-00	74	07	00 (07	50	4.4	07		70	70	7.4	75	70	7.5	74	70
Chloride	mg/l Cl	250 50	30	187.5	77	66	74	70	70	67	67	68	71	67	60		56	44	27	55	70	72	74	75	76	75	71	72
Chromium	μg/l	50	30	37.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6		1.2	<0.5	0.6	0.5	<0.5	<0.5	0.7	<1	<1
Cobalt	µg/l							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1
Coliform Bacteria	(No/100 ml)	0	4000	4075		400	500	140	470	500	450	110	400		450		457	440	005	2	F04	504	500	544	5.45	507	500	554
Conductivity	μS/cm @ 25	2500	1000	1875	572	498	523	500	473	509	452	446	430	451	450	453	457	418	385	481	531	521	532	541	545	537	538	551
Copper	μg/l	2000	30	1500	2.5	2.4	3.3	1.9	2.8	2.7	2.4	1.6	1.5	2.2	1.7	1.2	1.4	1.8		1.5	2.5	2.5	7.2	1.3	1.9	1	1.3	1.2
Cyanide	mg/l	0.05	10					< 0.05			00			=-			07			< 0.05			40			00		
D.O.	% Saturation				64			27			32			58			67			71			13			30		
E_ Coli	No/100 ml	0						12												1								
Fluoride	mg/l	0.8	1000					<0.150												<0.150								
Iron	μg/l	200	200		<10	10.1	22.4	<10	13.5	<10	<10	<10	<10	15.8	16.9	<10	<10	112.9		28.4	18	287.2	26.4	24.7	98.6	20.2	35	<10
Lead	μg/l	25	10	18.75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	1.1		<0.5	<0.5	0.9	<0.5	<0.5	1.1	< 0.5	<1	<1
Magnesium	mg/l Mg		50		9.62	9.08	9.55	8.99	9.33	8.11	8.38	8.08	8.41	9.48	8.58	9.22	7.41	6.29		8.24	9.04	10.17	10.44	9.9	10.02	10.17	10.46	10.58
Manganese	μg/l	50	50		<1	<1	2	5.2	13.9	14.2	2.2	3.2	3.8	1.3	2.5	<1	6.7	17.4		1.5	2	56.2	25.5	926.7	74.1	81.7	48.4	202.8
Mercury	μg/l	1	1	0.75	nm	nm	nm	<0.05	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm		<0.05	nm	nm	nm	nm	nm	nm	nm	nm
Molybdenum	μg/l		35					0.5	1	0.9	1	1.1	<0.5	0.6	0.8	0.7	0.6	0.7		0.6	<0.5	0.6	1	1.1	1	0.7	<1	<1
Nickel	μg/l	20	20	15	3.6	2.9	3.7	2.9	3.7	3.2	3.2	3.3	3.3	3.2	2.7	3.1	2.5	2.5		4.6	4.6	6.2	4	6.6	5.6	5.7	5.8	5
Nitrite	mg/l N	0.5	0.1	0.375	<0.002	0.003	<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	0.012	0.009	<0.002	<0.004	<0.004
o-Phosphate	mg/l P	05.05	30			= 0	7.0	0.02	7.0	_	7.0	7.0	7.5	7.0	7.4	7.5	7.0	7.0		<0.02	7.0		7.0		7.0		7.0	7.0
pH		6.5 - 9.5			7.8	7.8	7.9	7.8	7.8	8	7.8	7.8	7.5	7.8	7.4	7.5	7.3	7.6	7.7	7.8	7.8	7.7	7.6	7.7	7.6	7.7	7.8	7.6
Phenol	mg/l		0.0005		<0.002	<0.002	<0.002	<0.025	<0.002	<0.025	<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
Potassium	mg/l		5		8.55	7.42	8.43	7.75	8.58	8.74	7.92	8.02	7.48	9.15	7.21	6.93	5.92	4.67	00.0	6.33	7.88	8.64	9.18	00	8.89	9.4	8.91	8.6
Sampling Depth	m	40			26	26.3	26.3	26.4	26	26.1	26	26.9	26.2	26.2	26.1	25.9	25.2	25.1	23.8	25.3	25	25.3	26.9	26	25.9	17.9	18.2	25.5
Selenium	µg/l	10			1	1	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	ļ	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1
Silver	µg/l	200	450	450	42.04	20	44.26	< 0.5	nm	nm	nm	nm	nm 39.6	nm	nm	nm	nm	nm 25.45		nm	20.04	42.05	44.44	40.45	40.70	10.51	44.70	44.4
Sodium	mg/l	200	150	150	43.94	38	44.31	39.01	43.83	40.45	39.8	40.34		46.47	37.78	39.15	31.47	25.45	-	34.02	39.01	43.05	44.14	42.45	42.79	43.54	41.79	41.1
Strontium	μg/l	250	200	407 E	1	1	1	99.56	101.88	99.1	88.08	81.74	79.53	76.76	81.63	77.77	96.05	95.59	ļ	103.21	108.46	114.26	114.08	116.26	113.36	122.44	118.3	120.41
Sulphate	mg/I SO4	250	200	187.5	-	 	-	24.1	-		-	-	-	-	1	-	 	-	-	19.7					l	1		
Suspended Solids	mg/l				11.2	10.6	40.5	10	40.0	10.7	40.7	40.4	44.0	40.0	40.5	44.0	0.7	7.0	C 4	6.7	0.0	11.0	20.4	40.0	10.0	15.0	10.7	0.0
Temp	°C				11.2	10.6	10.5	12	13.3	12.7	16.7	18.1	14.6	16.2	10.5	11.3	8.7	7.6	6.4	6.7	9.6	14.6	20.1	18.9	16.3	15.9	10.7	8.8
Thallium	µg/l				44.50	42:45	44.45	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	11.50	<0.1	<0.1	<0.1	0.13	0.18	0.13	0.12	<1	<1
Time sampled	ua/I				11:50	12:15	11:45	0.48958		0.49653		11:20	11:25	11:40	11:20	11:40	11:45	11:35	11:50	11:20	11:45	11:25	12:30	11:35	12:00	12:20	13:15	11:55
Tin (μg/I)	µg/l	NAC			25.0	1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	nm	nm	ļ	nm			0.0		 	7.4		1
T.O.C.	mg/l	NAC	1140		35.9	0.07	0.44	36.9	0.40	0.40	5.3	0.07	0.00	6.3	0.44	0.00	35.5	0.54	0.07	3.5	0.0	0.04	6.9	0.00	0.00	7.1	0.00	0.00
T.O.N	mg/l N		NAC		0.12	0.37	0.14	0.1	0.48	0.12	<0.08	0.27	<0.08	<0.08	0.14	0.33	0.27	0.51	0.97	0.51	0.3	0.31	0.09	0.09	0.22	0.28	0.29	<0.20
Total S Solids	mg/l	-			1	1	1	0.40	0.47	0.44	0.20	0.25	0.2	0.20	0.20	0.4	0.40	0.5		0.57	0.42	0.44	0.24	0.00	0.2	0.00	.4	
Uranium	μg/l				-		1	0.46	0.47	0.41	0.38	0.35	0.3	0.38	0.39	0.4	0.46	0.5		0.57	0.43	0.44	0.31	0.26	0.3	0.28	<1	<1
Vanadium	μg/l		400					<0.5	<0.5	<0.5	<0.5	<0.5	0.58	0.62	<0.5	<0.5	0.51	<0.5		<0.5	<0.5	0.78	<0.5	<0.5	<0.5	0.61	<1	<1
Zinc	μg/l		100		3.7	4	5.3	1.3	6.8	1.3	5.5	4.6	1	1.1	6.5	2.3	2.6	26.6	<u> </u>	5.1	4	5	2.3	4.7	61.3	2.3	16.7	2

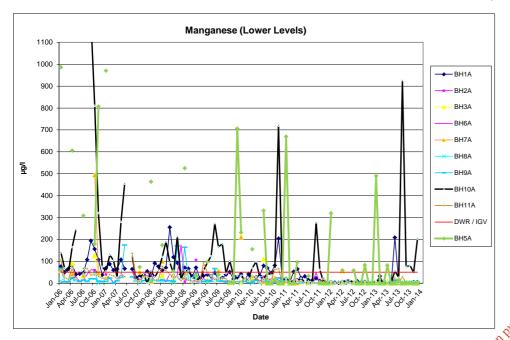
															во	REHOLE	BH11A											
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######		#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######		#######	#######	######	28-Aug-07	25-Sep-07	24-Oct-07	28-Nov-07	7 18-Dec-0
Alkalinity	mg/l CaCO3							230												252								
Aluminium	ug/1	200	200	150																								
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	0.04	< 0.03	<0.03	<0.03	<0.03	0.05	0.2	0.04	<0.03	0.03	0.03	<0.03	<0.03	<0.03	<0.03	0.05	0.03	0.03	< 0.03	0.10	0.03	<0.03	< 0.03	< 0.03
Antimony	ug/1	5																										
Arsenic	ug/0		10	7.5																								
Barium	ug/1		100		50.5	<50	<50	51.2	<50	<50	54.6	94.2	53	52.7	55.8	<50	<50	<50	53.3	52.7	56.9	56.1	53.0	62.7	<50	58.2	nm	<50
Beryllium	ug/2																											
B.O.D.	mg/l O2																											
Boron	μg/l	1000	1000	750	0.0	0.40	0.40	180.4	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	243.3	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Cadmium	μg/l	5	5	3.75	0.2	<0.10	<0.10	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Calcium	mg/l Ca		200					142.36												154.20								
C.O.D.	mg/l O2																											
Chloride	mg/l Cl	250	30	187.5	62	62	60	61	60	57	67	89	99	98	100	97	84	78	77	74	88	95	88	82	100	112	92	101
Chromium	μg/l	50	30	37.5	9.2	4	4.8	10	3	2.8	2	3	4.7	2.4	3.5	<1	4.6	3.4	4.0	<1	<1	3.1	2.8	3.3	<1	2.3	2.2	3.5
Cobalt	μg/l	_																										
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	μS/cm @ 25	2500	1000	1875	1295	1294	1300	1294	1300	1318	820	1402	1446	1456	1398	1447	1454	1458	1515	1511	1549	1549	1555	1576	1600	1561	1650	1549
Copper	μg/l	2000	30	1500				6												3.2								
Cyanide	mg/l	0.05	10					<0.05												<0.05								
D.O.	% Saturation				43			41			108			48			54			55			74			37		
E_ Coli	No/100 ml	0						0																				
Fluoride	mg/l	0.8	1000					0.15												<0.150								
Iron	μg/l	200	200		536	227	217.2	697.9	255.6	605.5	79.1	583.1	207.9	372.5	246.5	208.2	315.9	384.8	404.5	419.3	403.9	315.2	532.2	1081.9	400.4	319.9	394.9	388.2
Lead	μg/l	25	10	18.75	6.4	<1	<1	5.5	<1	<1	<1	3.2	<1	<1	<1	<1	<1	2.4	<1	<1	<1	<1	4.5	4.1	<1	<1	2.6	<1
Magnesium	mg/l Mg		50					59.83												47.63								
Manganese	μg/l	50	50		106.2	24	18.7	70.7	18.2	30.8	67.5	66	37.7	37.7	31.4	23.3	17.1	38.8	33.5	21.0	35.3	30.0	54.6	135.7	10.8	9.2	29.3	29.1
Mercury	μg/l	1	11	0.75				0.6												<0.10								
Molybdenum	μg/l		35																									
Nickel	μg/l	20	20	15	6.4	2.9	3.5	14.4	3.3	5.9	8.8	7	5.9	4.4	2.9	3.2	3.0	3.4	3.4	8.8	3.3	4.3	4.7	5.0	3.8	2.2	4.4	4.6
Nitrite	mg/l N	0.5	0.1	0.375	0.013	0.003	<0.003	0.006	<0.003		0.011	0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.004	<0.003	nm	0.005	0.003	0.006	0.006	< 0.003	0.008
o-Phosphate	mg/l P		30					0.02												0.02								
pH	_	6.5 - 9.5			7.5	7.4	7.4	7.4	7.4	7.3	8.3	7.6	7.4	7.5	7.4	7.6	7.5	7.2	7.2	7.4	7.2	7.4	7.4	7.3	7.2	7.3	7.4	7.4
Phenol	mg/l		0.0005		0.019	<0.001	<0.001	<0.001	0.013	0.198	0.007	0.016	<0.001	0.035	<0.001	<0.001	0.045	<0.001	<0.001	<0.001	<0.01	nm	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Potassium	mg/l		5		25.95	23.52	22.29	22.67	26.88	21.17	17.63	23.19	24.58	23.34	23.95	21.41	22.31	20.57	21.98	18.85	20.54	22.78	22.09	20.85	22.52	24.86	28.6	27.34
Sampling Depth	m				15.8	15.4	15.7	15.9	15.8	16	15.6	15.9	16.1	16	16	15.1	15.9	15.8	16.0	15.2	15.6	15.7	16.0	15.8	nm	16.1	15.3	15
Selenium	μg/l	10																										
Silver	μg/l		.=-		47.05	47.04	50.00	54.00	50.00	40	00.00	50.74	50.44	05.00	00.00		50.54	F7 F7	50.00	50.00		00.70	00.00	00.50	00.00	70.04	00.40	04.05
Sodium	mg/l	200	150	150	47.95	47.21	59.29	51.82	56.89	46	86.66	50.74	59.14	65.88	69.93	>50	53.54	57.57	58.29	53.92	>50	60.76	63.88	63.53	69.66	78.24	83.42	91.25
Strontium	μg/l																											
Sulphate	mg/I SO4	250	200	187.5				296.2												464.6								
Suspended Solids	mg/l																											
Temp	°C				13	13	12	14.1	15	16	21.7	16	13	14.4	12	10	11.7	14.0	13.0	16.0	16.0	15.0	18.4	16.0	15.0	14.3	16	14
Thallium	μg/l							40	40.5	40	40.0	40.45	40.05	40.0	40.4	40.4	40.05	40.00	40.50	40.50	40.50	40.05	Q.	40.45	10.55	40.50	- 44	40
Time sampled								13	12.5	13	13.3	12.45	12.35	12.3	12.4	12.4	13.05	12.30	12.50	12.50	12.50	13.05	13.30	12.45	12.55	12.50	11	13
Tin (μg/I)	μg/l					ļ												1										
T.O.C.	mg/l	NAC			95.6	0.00	0.04	3.9	0.00	5.00	11.8	7.50		3.5	0.40	7.70	3.6	7.47	7.04	5.6	0.00	300	5.3	0.04	0.04	4.5	40.00	0.4:
T.O.N	mg/l N		NAC		6.1	6.03	6.01	5.88	6.29	5.99	0.11	7.53	7.7	8.5	8.46	7.73	7.75	7.47	7.31	7.40	8.33	7.94	7.82	9.21	8.61	9.58	10.36	8.44
Total S Solids	mg/l				1	ļ												1		l	13.0	2	ļ					
Uranium	μg/l				1			ļ					ļ	ļ				1		-	Mr. Mr.				1			1
Vanadium	μg/l					L												L			60,		L			l		L
Zinc	μg/l		100		5.8	9.1	7.7	15.7	10.8	14.2	2.9	12	9.2	10.9	7.9	13.1	13.5	12.5	14.0	3.8	8.1	10.3	2.1	9.9	16.1	14.1	14.4	17

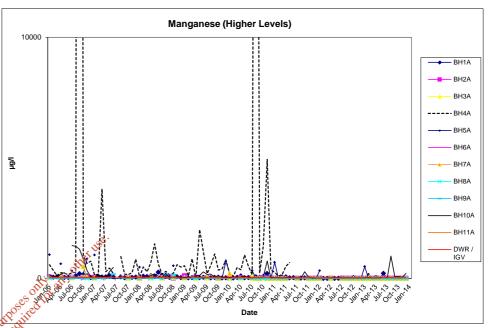
																				20.16	<u> </u>							
															BC	REHOLE	RH11A		Q ¹	Trodit								
Date Collected		DWR	IGV	2010 GW Regs	######	#######	#######	#######	######	######	######	#######	#######	#######				######	###80##		######	######	#######	18-Aug-09	29-Sen-09	20-Oct-09	17-Nov-09	08-Dec-09
Alkalinity	mg/l CaCO3							232											N 16	226								206
Aluminium	ug/1	200	200	150														~	7									
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	< 0.03	< 0.03	0.03	0.04	< 0.03	< 0.03	0.08	0.05	< 0.03	< 0.03	0.03	0.05	< 0.03	<0:03	×<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03
Antimony	ug/1	5																17.0	7									
Arsenic	ug/0		10	7.5													£	0,10	,									
Barium	ug/1		100		55.5	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50		<50	<30	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Beryllium	ug/2																_	CO.										
B.O.D.	mg/l O2																ð	· _										
Boron	μg/l	1000	1000	750				309.7									X			207.2								131.1
Cadmium	μg/l	5	5	3.75	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	<0.10	<0.10	< 0.10	< 0.10	< 0.10	<0.10	< 0.10	0.10	< 0.10	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	< 0.1
Calcium	mg/l Ca		200					158.01									O'S			129.87								101.44
C.O.D.	mg/l O2																											
Chloride	mg/l Cl	250	30	187.5	77	70	71	67	65	65	72	62	58	58	57	59	56	57	56	55	49	47	46	44	42	44	42	43
Chromium	μg/l	50	30	37.5	5.5	3.5	4.7	7.6	4.5	8.3	<50	6.6	4.1	4.4	3.5	3.5	5	4.2	3.7	4.1	5	7.4	7.1	7.3	5.08	4.9	7.1	6.6
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	μS/cm @ 25	2500	1000	1875	1531	1414	1408	1275	1222	1179	1120	1098	1110	1130	1149	1170	1155	1183	1167	1145	1071	1056	1008	996	979	989	936	989
Copper	μg/l	2000	30	1500				4.4												3.9								1.8
Cyanide	mg/l	0.05	10					< 0.05												<0.01								< 0.05
D.O.	% Saturation				68			72			83			65			70			76			nm	95		71		93
E_ Coli	No/100 ml	0						3																60				
Fluoride	mg/l	0.8	1000					<0.150												<0.150								0.180
Iron	μg/l	200	200		391.7	226.4	293.3	466.1	516.4	305.8	270.2	256.7	172.4	277.5	169.2	116.1	136.7	156.9	670.9	290	279.9	91.7	83.8	118	156.25	<50	<50	<50
Lead	μg/l	25	10	18.75	2.2	<1	<1	5.1	4	2.6	<1	3.9	<1	2.6	<1	<1	<1	<1	4.2	3.7	3.1	<1	1.3	1.3	1.12	<1	<1	1.2
Magnesium	mg/I Mg		50		00.0	40.7	40.4	92.07	50.4	40.5	00.0	00.0	44.0	00.0	40.0	- 1				41.72	00.5	47.4						30.50
Manganese	μg/l	50	50	0.75	22.9	13.7	19.1	76.8	58.4	40.5	28.6	28.3	11.8	29.8	13.9	5.4	7.2	6.1	92.4	50.5	33.5	17.4	18.7	21.2	19.97	<1	8.3	7.8
Mercury	µg/l	1	1 35	0.75				<0.10												<0.1								<0.1
Molybdenum Nickel	µg/l	20	20	15	3.4	2.7	2.7	3.8	3.8	5.9	2.4	2.5	2.1	2.7	<1	<1	.4	-4	5.6	2.5	1.9	1.7	1.6	2.1	1.66	<1	4.3	
	µg/l	0.5										2.5					<1	<1									1.2	<1
Nitrite o-Phosphate	mg/l N mg/l P	0.5	0.1 30	0.375	0.009	0.004	0.004	<0.011	<0.003	0.011	0.016	0.017	0.008	0.004	0.031	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002 <0.02
nH	mg/i P	6.5 - 9.5	30		7.2	7.4	7.3	7.4	7.5	7.4	7.5	7.6	7.4	7.5	7.4	7.4	7.4	7.5	7.4	7.4	7.5	7.5	7.4	7.5	7.7	7.4	7.6	7.4
Phenol	mg/l	0.5 - 5.5	0.0005		0.02	0.02	0.02	<0.01	<0.01	<0.01	nm	0.03	0.01	0.03	<0.01	7.4	<0.01	<0.01	<0.016	<0.002	<0.002	<0.002	nm	<0.002	<0.015	<0.015	<0.0005	<0.015
Potassium	mg/l		5		28.64	28.19	27.27	27.76	25.13	23.47	22.53	24.02	21.84	23.16	22.2	23.13	21.91	20.24	19.95	19.48	21.2	20.17	18.33	16.93	15.72	18.61	16.22	14.92
Sampling Depth	m		,		15.1	15.9	15.2	15.1	15.3	14.9	15	15.1	15.2	15.1	15.2	15.3	15	15.3	15.2	15.1	15.3	14.8	15	15	14.2	15.1	14.2	13.7
Selenium	μg/l	10							.0.0				10.2				- 13	13.3	13.2		.0.0				2-112	13.1	2-112	13.7
Silver	μg/l				1																							
Sodium	mg/l	200	150	150	76.35	66.42	64.19	54.56	44.75	46.50	43.81	41.56	39.54	41.89	44.31	49.61	45	43.22	43.05	40.23	38.71	32.25	32.87	32.61	30.2	34.03	31.82	27.31
Strontium	µg/l				,																							
Sulphate	mg/I SO4	250	200	187.5	1			347.7												279.2								230.7
Suspended Solids	mg/l				1																							
Temp	°C				9	16	14	14	15	16.3	15.7	16	14	11.8	13	14	13.8	14	14	14.5	14.3	16	17	15.2	14.3	14.1	14.0	14.0
Thallium	μg/l																											
Time sampled					nt	12.4	12.45	13.3	12.55	12.55	13	12.55	13	12.3	12.2	11.45	13.05	12.3	12.45	13.5	13	12.2	13	12.3	12.4	12.20	10.50	13.05
Tin (µg/I)	μg/I																											
T.O.C.	mg/l	NAC			4.7			2.9			2			2.6			3.4			4.5			3.7			4.1		<3.0
T.O.N	mg/l N		NAC		7.65	7.4	7.09	6.05	5.04	4.59	3.84	3.47	3.89	4.31	4.64	4.34	2.36	2.61	2.27	2.1	3.08	2.92	2.29	2.68	2.4	1.82	2.40	1.44
Total S Solids	mg/l																											
Uranium	μg/l														_				_				_					
Vanadium	μg/l																											
Zinc	μg/l		100		21.3	16.4	13.5	15	<1	13.1	10.1	13.3	9.2	18.9	7.6	10.7	14.4	17.6	16.9	12.4	11.3	7.6	8	7.7	126.6	5.8	93.9	8.8

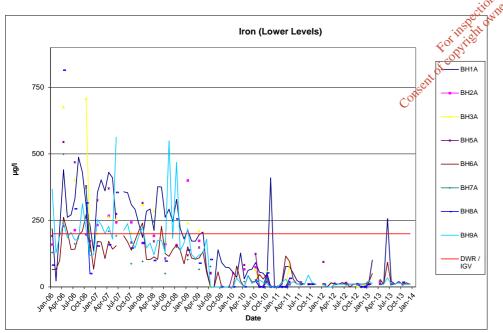
																REHOLE												
Date Collected		DWR	IGV	2010 GW Regs	######	#######	######		######	######	#######	######	#######		#######	#######	######	#######	#######		######	######	######	09-Aug-11	06-Sep-11	04-Oct-11	08-Nov-11	13-Dec-1
Alkalinity	mg/l CaCO3							206						214						243								
Aluminium	ug/1	200	200	150																								
Ammonia	mg/l N	0.23 mg/l N	0.11 mg/l N	0.175	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03
Antimony	ug/1	5																										
Arsenic	ug/0		10	7.5																								
Barium	ug/1		100		31.8	32.8	33.9	30.6	28	28.9	28.9	28.0	26.8	35.3	35.5		36.8	37.7	37.7	37.5	36.4	33.7	30.4	28.4	27.9		26.7	
Beryllium	ug/2																											
B.O.D.	mg/l O2																											
Boron	μg/l	1000	1000	750				161.1						163.8						297.5								
Cadmium	μg/l	5	5	3.75	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<1		<1	<0.1	<0.1	< 0.1	<0.1	< 0.1	< 0.1	<0.1	< 0.1		<0.1	
Calcium	mg/l Ca		200					115.01						119.31						131.13								
C.O.D.	mg/l O2																											
Chloride	mg/l Cl	250	30	187.5	44	45	44	43	42	43	43	38	39	40	37	19	47	48	51	53	52	47	43	46	43	42	35	37
Chromium	μg/l	50	30	37.5	2.3	3.7	2.9	2	2.7	2.2	2.2	3.2	3.2	3.3	<5		<5	2.7	1.5	1.2	1.2	1.6	1.8	1.7	2.1		3.3	
Cobalt	μg/l																											
Coliform Bacteria	(No/100 ml)	0																										
Conductivity	µS/cm @ 25	2500	1000	1875	1022	1005	1034	1009	1005	975	975	875	893	912	903	560	798	976	999	589	982	878	889	901	857	875	958	914
Copper	μg/l	2000	30	1500				2.5						2.3						< 0.5								
Cyanide	mg/l	0.05	10					<0.05						<0.05						<0.05						< 0.05		
D.O.	% Saturation				64			76				80		62			46			30			50			49		
E Coli	No/100 ml	0						4						nm						nm								
Fluoride	mg/l	0.8	1000					<0.150						<0.150						<0.150						<0.150		
Iron	μg/l	200	200		<50	119.7	49.9	90.6	117.4	26.3	26.3	90.3	89.2	275.2	282.3		<100	34.6	23.3	31	28.2	10.2	19.6	<10	32.6	10.150	209.3	
Lead	μg/l	25	10	18.75	1.6	2.7	1.2	2.2	1.6	<0.5	<0.5	0.9	0.7	2.7	<5		<5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5		1	
Magnesium	mg/l Mg		50		1.0	2.7	1.2	35.46	1.0	10.5	10.5	0.5	0.7	37.45				10.5	-0.5	43,36	-0.5	10.5	10.5	10.5	10.5		-	
Manganese	µg/l	50	50		7.2	21.7	11.2	26.9	27.9	5.1	5.1	17.1	20.5	62.6	66.1		<10	2.8	4.1	6.6	7.9	2.9	1.2	<1	1.3		22.3	
Mercury	μg/l	1	1	0.75	7.2	22.7	11.1	<0.1	27.5	3.1	3.1	17.1	20.5	<0.05	00.1		120	2.0		<0.05	7.5	2.3		12	1.5		22.5	
Molybdenum	μg/l	•	35	0.70				10.1						٧٥.05						10.03								
Nickel	µg/l	20	20	15	1.3	1.5	<1	1.2	1.3	<1	<1	<0.5	0.6	2.2	<5		<5	<0.5	0.9	2.3	1.2	<0.5	<0.5	<0.5	0.6		<0.5	
Nitrite	mg/l N	0.5	0.1	0.375	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	nm	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
o-Phosphate	mg/l P	0.0	30	0.070	V0.002	10.002	V0.002	<0.002	V0.002	V0.002	10.002	₹0.002	10.00Z	<0.002	11111	V0.002	10.002	10.00Z	10.002	<0.02	10.002	40.00Z	10.002	40.00Z	10.002	<0.02	10.002	10.002
pH	mg/m	6.5 - 9.5			7.5	7.5	7.5	7.4	7.5	7.5	7.5	7.5	7.5	7.6	7.6	7.8	8.0	7.6	7.4	7.5	7.5	7.6	7.5	7.5	7.3	7.6	7.7	7.6
Phenol	mg/l	0.5 - 5.5	0.0005		<0.015	<0.015	<0.015	<0.015	<0.2	<0.1	<0.1	<0.025	<0.015	<0.025	<0.015	7.0	<0.025	<0.025	<0.01	<0.008	<0.013	<0.008	<0.008	<0.016	<0.016	<0.016	<0.025	7.0
Potassium	mg/l		5		15.14	15.9	18.18	15.66	15.28	18.03	18.03	15.41	14.38	17.63	14.69		22.25	21.49	25.00	31.01	26.29	22.33	17.91	22.56	22.53	<0.010	17.36	
Sampling Depth	m		J		14	13.1	14	13.00	14.1	14.1	14.1	14.9	15.2	nm	15.3	9.1	12.2	13.8	13.8	14	15.1	14.6	15	15	15.3		14.6	15
Selenium	μg/l	10			14	13.1	14	13.2	14.1	14.1	14.1	14.5	13.2	1010	13.3	7.1	12.2	13.0	13.0	14	1.3.1	14.0	1.5	13	13.3		14.0	13
Silver	μg/l	10		I			-	 	-	-	-	1				 				1	1		1	1	1			1
Sodium	mg/l	200	150	150	30.18	31.12	36.82	32.4	27.15	35.37	35.37	23.49	25.85	34.07	29.93	-	36.77	35.20	39.86	46.44	40.69	32.45	27.14	30.39	35.8		25.92	
Strontium	mg/l μg/l	200	100	100	30.18	31.12	30.62	32.4	27.13	33.3/	33.3/	23.49	23.63	34.07	29.93	 	30.//	33.20	39.60	40.44	40.09	32.43	27.14	30.39	33.8		25.92	1
Sulphate		250	200	187.5				226				1		299.6				1		208.5	-		1			164.3		-
Suspended Solids	mg/l SO4 mg/l	200	200	107.5		1		220				1		299.0		-	1	1		206.5	1		1	1	1	104.3	1	-
Temp	°C				14	13.7	14	15.8	14	16	16.0	28.0	14.1	13.8	13.6	9.6	13.5	15.0	14.0	15.1	16	15.4	15	15	15.1	15.2	13.8	11.9
					14	13./	14	15.8	14	16	10.0	28.0	14.1	15.8	13.6	9.6	13.5	15.0	14.0	15.1	16	15.4	15	15	15.1	15.3	13.8	11.9
Thallium	µg/l				42.4-	43.3	42.45	42.4	42.25	42	42.00	43.30	42.20	42.25	42.20	43.40	42.25	43.40	12:10	12.50	12.40	43.55	Ø*3.05	12:10	13.10	43.50	444	44.00
Time sampled	uali		-	-	12.45	12.3	12.45	13.1	12.35	13	13.00	13.20	12.30	13:35	13:20	12:40	12.35	12:40	12:40	12:50	12:40	12:55	12:05	12:10	12:40	12:50	14.1	11:00
Tin (μg/l)	µg/l	NAC			4.3	ļ		2.0				2.4		54.3		ļ	2.0	1		54.0	1	1	2.4	1	1			1
T.O.C.	mg/l	NAC	1110		4.2			2.8	0.00			2.1		51.3		ļ	3.8	0.00		51.9		100°	3.1				4.50	
T.O.N	mg/l N		NAC	-	1.22	1.17	1.09	1.93	2.66	2.22	2.22	2.48	2.18	2.59	2.17		2.19	2.66	3.25	2.92	2.85	2.27	2.25	2.42	2.3	1.57	1.69	1.52
Total S Solids	mg/l				_							1						1		1	A . X	A -	1					1
Uranium	μg/l				_							-						ļ		ļ	92.90	•	-					-
Vanadium	μg/l																				1.05		L					
Zinc	μg/l	1	100	1	7.1	9.2		7.5	4.3	2.1	2.1	3.4	3.9	6.2	33.3	l	23.6	5.0	3.6	3.55	5.6	9.6	6.9	8.6	6.1		2.9	1

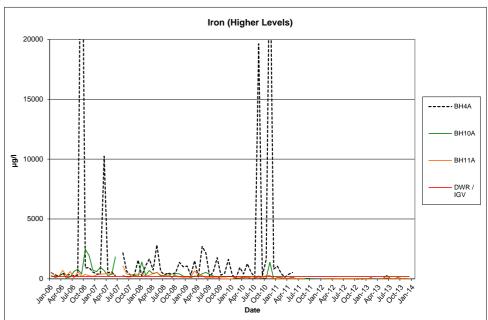
																				-02.6	, C							
																				11. B								
															ВО	REHOLE	BH11A		- S	il alil								
Date Collected		DWR	IGV	2010 GW Regs	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	#######	07-Aug-13	17-Sep-13	08-Oct-13	19-Nov-13	03-Dec-13
Alkalinity	mg/l CaCO3							220											io e	226								
Aluminium	ug/1	200	200	150				<5	<5	<5	<5	<5	<5	<5	5.6	<5	<5	17.7	11 Th	<5	<5	28	<5	<5	<5	<5	<10	<10
Ammonia	mg/l N	0.23 mg/l N (0.11 mg/l N	0.175	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	₹0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.020	< 0.020
Antimony	ug/1	5						< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	W.	<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<1	<1
Arsenic	ug/0		10	7.5				< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	₹	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<1	<1
Barium	ug/1		100		34.8	36	34.9	33.9	35.3	29.6	37.3	39.7	36.2	36.1	35.5	34.3	41.4	42.2		39.6	36.3	40.6	36.5	32.5	31.6	31.1	27.4	31.6
Beryllium	ug/2							< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	0.5		<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<1	<1
B.O.D.	mg/l O2																Ş.											
Boron	μg/l	1000	1000	750	226.3	270.9	256.5	227.5	218	216.2	231	232.9	236	292	236.5	226.3	174.20	193.5		212.6	207.2	208.2	189.2	176.3	149.3	150.3	102.7	173.1
Cadmium	μg/l	5	5	3.75	<0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	≤Q1	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium	mg/l Ca		200		84.1	95.38	88.22	92.43	99.23	84.89	92.62	85.17	90.19	94.47	88.24	84.02	9 0.18	93.9		98.86	96.47	107.97	101.55	92.89	85.98	89.87	81.77	81.41
C.O.D.	mg/l O2															<u> </u>	75											
Chloride	mg/l Cl	250	30	187.5	47	50	50	47	44	46	44	44	45	45	44	41	36	38	41	41	45	45	42	40	35	35	29	37
Chromium	μg/l	50	30	37.5	1.2	2	1.4	1.2	2.1	1.5	2.3	1.4	1.3	2	2	1.7	1.6	2.5		3.2	2	1.7	2.3	1.6	2	2.6	2.9	3.7
Cobalt	μg/l							< 0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<1	<1
Coliform Bacteria	(No/100 ml)	0						>2420												5								
Conductivity	μS/cm @ 25	2500	1000	1875	958	911	900	884	852	959	892	878	891	916	923	869	849	869	896	925	942	938	892	877	833	812	744	788
Copper	μg/l	2000	30	1500	1.2	1	2.6	<0.5	0.9	1.1	1.1	3.3	1	2	1.3	1.2	1.4	2.2		0.8	1	1.5	< 0.5	0.9	0.8	<0.5	<1	1
Cyanide	mg/l	0.05	10					< 0.05												< 0.05								
D.O.	% Saturation				35			42			37			33			45			40			37			55		
E_ Coli	No/100 ml	0						72												0								
Fluoride	mg/l	0.8	1000					0.15												<0.150								
Iron	μg/l	200	200		<10	18.3	15.2	<10	13.6	<10	<10	<10	<10	<10	<10	<10	16.3	31.3		<10	<10	79.4	10.2	<10	19.2	<10	<10	<10
Lead	μg/l	25	10	18.75	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	36.4	2	< 0.5	<0.5	<0.5	< 0.5	<0.5	0.9		<0.5	< 0.5	0.8	< 0.5	<0.5	< 0.5	< 0.5	<1	<1
Magnesium	mg/l Mg		50		27.38	27.89	25.42	28.67	32.05	27.37	28.73	27.97	27.96	28.44	26.79	26.82	27.61	28.81		31.37	32.65	30.7	32.08	29.03	29.72	27.85	28.43	28.66
Manganese	μg/l	50	50		1.3	<1	2.7	<1	<1	<1	<1	<1	<1	<1	1.7	<1	2	5.9		<1	<1	24.2	2.9	<1	<1	<1	<5	<5
Mercury	μg/l	1	1	0.75	nm	nm	nm	< 0.05	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm		< 0.05	nm	nm	nm	nm	nm	nm	nm	nm
Molybdenum	μg/l		35					0.6	0.5	<0.5	1.2	<0.5	<0.5	0.5	0.6	< 0.5	0.6	<0.5		0.6	<0.5	< 0.5	1.1	<0.5	0.6	<0.5	<1	<1
Nickel	μg/l	20	20	15	1	0.8	1	<0.5	<0.5	<0.5	<0.5	1	<0.5	0.8	0.6	0.6	0.5	0.6		0.7	2.1	2.3	<0.5	1.9	0.8	1.2	<1	1.3
Nitrite	mg/l N	0.5	0.1	0.375	< 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	<0.004	<0.004
o-Phosphate	mg/I P		30					0.02												<0.02								
pH		6.5 - 9.5			7.5	7.5	7.6	7.5	7.6	7.7	7.5	7.5	7.3	7.5	7.2	7.3	7.3	7.5	7.4	7.6	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Phenol	mg/l		0.0005		< 0.002	<0.002	<0.002	< 0.025	<0.002	< 0.025	< 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
Potassium	mg/l		5		29.91	29.05	34.71	24.9	26.82	27.39	27.33	30.45	28.58	28.97	27.08	24.55	22.37	24.78		25.07	25.32	24.15	23.03	21.28	18.62	18.71	14.33	20.84
Sampling Depth	m				14.8	14.5	14.1	14.2	14.8	15.1	14.3	10	14.8	14.8	14.5	14.5	12.4	14.2	11.1	13.9	14.7	14	16	14.3	15	15.8	16.3	15.1
Selenium	μg/l	10						<0.5	0.6	0.7	0.8	0.6	<0.5	1.1	<0.5	0.7	0.9	1.1		1.4	0.9	0.9	1.1	0.8	1.1	1.3	<1	<1
Silver	μg/l							0.7	nm	nm	nm		nm															
Sodium	mg/l	200	150	150	39.52	38.97	39.83	34.81	36.49	33.75	33.83	34.63	35.59	43.03	35.87	33.71	27.35	30.31		33.26	32.72	36.08	32.35	29.48	26.01	26.16	20.78	30.98
Strontium	μg/l					ļ		155.96	167.48	163.32	158.1	149.07	151.56	150.68	155.75	147.13	189.63	176.52	1	192.15	173.86	187.86	175.08	169.09	151.87	161.31	141.87	148.07
Sulphate	mg/l SO4	250	200	187.5				163												190.2								
Suspended Solids	mg/l																											
Temp	°C				14.3	11.2	14.3	14.7	14.5	13.2	15.8	16.8	13.9	16.5	10.6	10.6	11.2	13.5	13	13.5	13.5	13.4	14.7	16	13.5	13.8	13.2	9.2
Thallium	μg/l							0.28	0.25	0.35	0.36	0.33	0.35	0.38	0.31	0.26	0.27	0.36		0.3	0.33	0.33	0.23	0.23	0.19	0.17	<1	<1
Time sampled		1			14:20	14:40	14:00	12:40	14:00	14:15	13:55	14:15	13:40	12:35	13:40	13:35	12:20	13:50	14:15	12:15	13:55	13:25	13:10	13:40	14:00	13:15	13:35	13:50
Tin (μg/l)	μg/l				= 0			<1	<1	<1	<1	<1	<1	<1	<1	<1	nm	nm	1	nm		<u> </u>	0.7					
T.O.C.	mg/l	NAC			56			47.1			3.6			3.5			56.6			2.2			2.7			2.9		
T.O.N	mg/l N	1	NAC		1.77	2.17	2.13	2.07	1.96	2.39	1.41	1.85	2.07	2.84	1.7	2.2	1.81	1.92	2.09	1.68	2.41	1.59	1.91	2.14	1.31	1.32	1.6	2.1
Total S Solids	mg/l	1						0.70	0.74	0.00	0.70	0.70	0.0	0.70	0.70	0.70	4.00	0.00	1		0.00	0.07	0.00		0.70	0.75		<u> </u>
Uranium	μg/l	1						0.73	0.71	0.68	0.72	0.79	0.8	0.79	0.72	0.79	1.03	0.92		0.96	0.82	0.87	0.82	0.75	0.78	0.75	<1	<1
Vanadium	μg/l	1						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.54	<0.5	<0.5	0.61	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<1	1.13
Zinc	μg/l		100		6.5	2.4	8.3	3.1	3.7	6.4	7.9	8.1	1.8	2.5	11.5	5.4	7.4	6.8	1	3.6	2.6	7.2	3.8	2.4	7	5	17.3	6.2

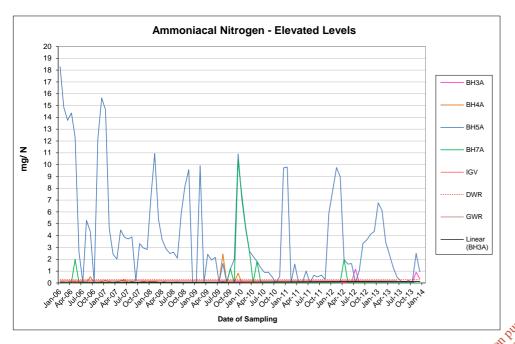
Groundwater Quality Data - Drogheda Landfill

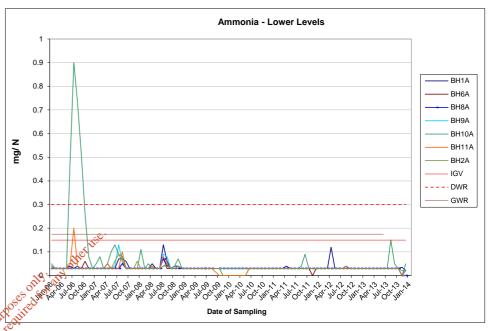


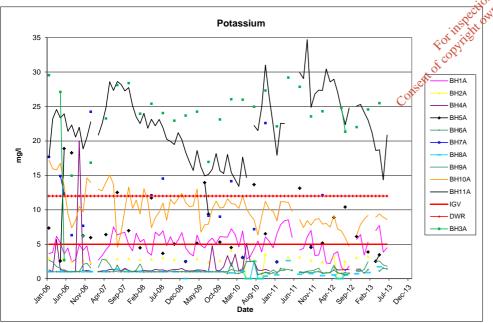


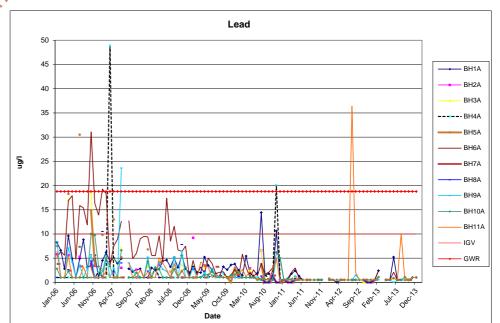


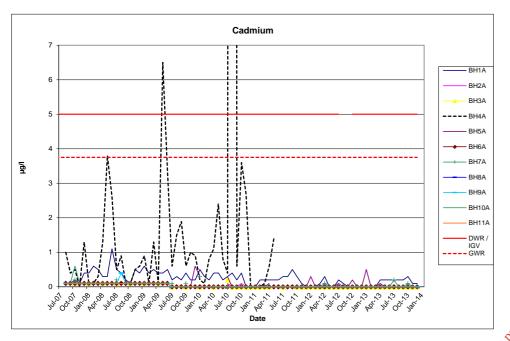


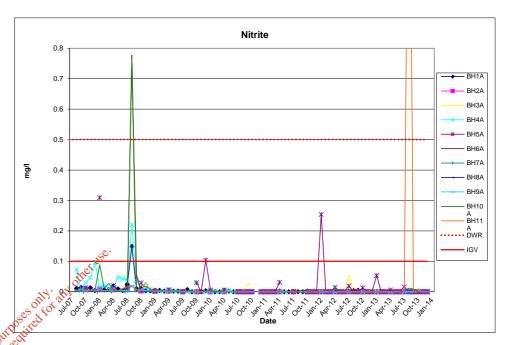


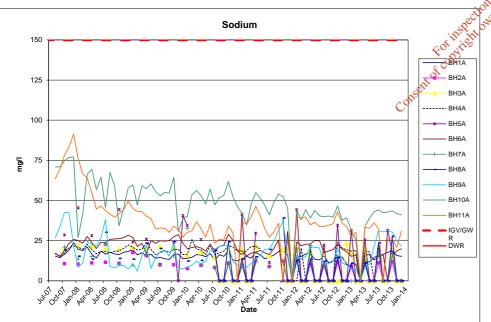


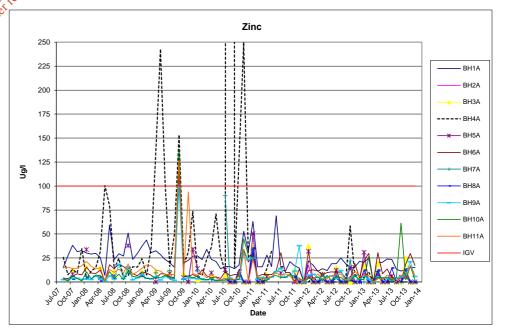




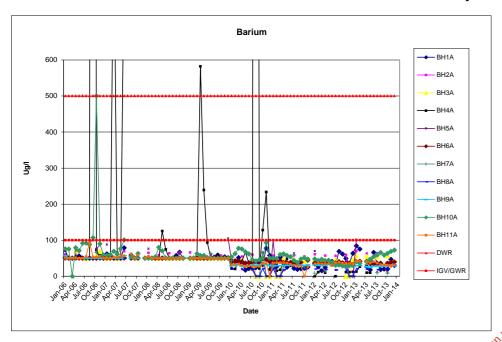


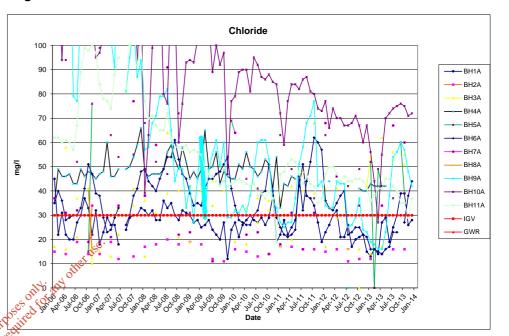


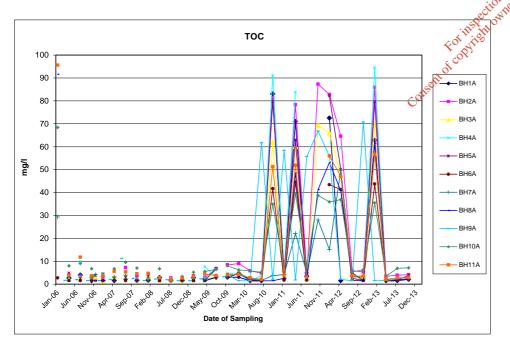


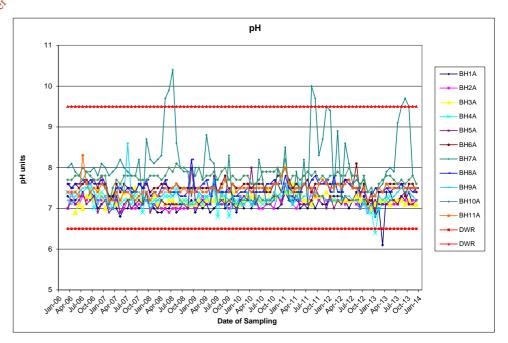


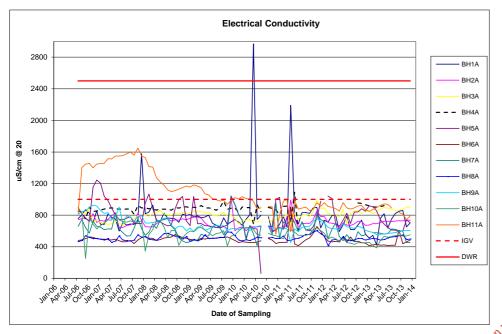
Groundwater Quality Data - Drogheda Landfill

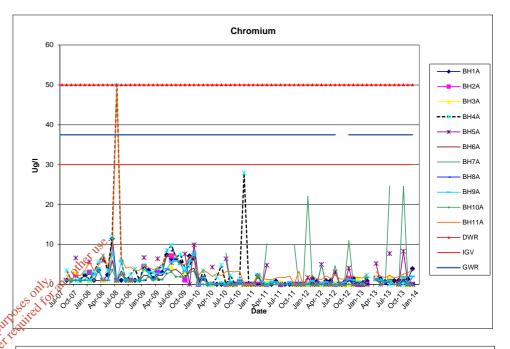


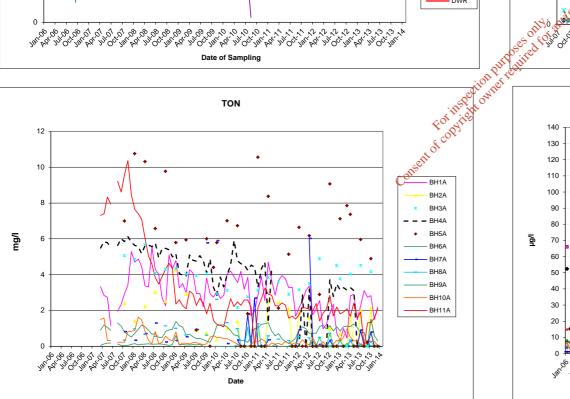


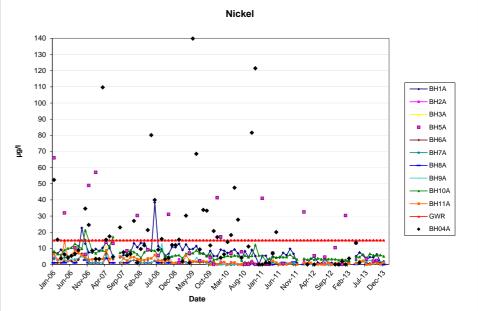


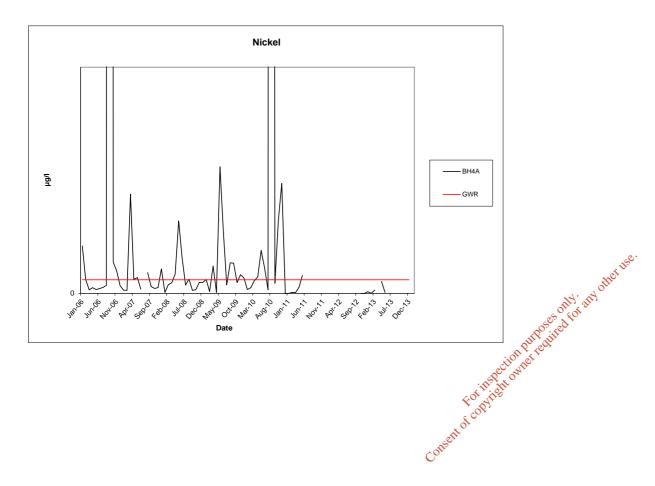












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