

**Appendix I – Groundwater Abstraction for Dust Suppression & Surface Compaction (GWAMP)** 



Specialising in:

Acid Sulphate Soils Contaminated Site Assessment Air Quality Investigations Remediation Advice and Design Groundwater Management Facility Maintenance

ABN 36 835 856 256

# **OPERATING STRATEGY**

# **Groundwater Abstraction for Dust Suppression and Surface Compaction**

Lot 20 Adelaide Street, Hazelmere

PREPARED FOR:

Wasterock Pty Ltd

W: www.environmentalservices.com.au



# **DOCUMENT DETAILS**

Title:	Groundwater Abstraction for Dust Suppression and Surface Compaction
Author:	Nathan Fuser / Greg Watts
Status:	Draft
Job number:	E2012-031
Email:	greg@environmentalservices.com.au
Synopsis:	This document has been prepared to detail the management of proposed groundwater abstraction operations during proposed site works, of Acid Sulfate Soil treatment, remediation, waste excavation and inert fill importation at Adelaide Street, Hazelmere

# **DOCUMENT DISTRIBUTION**

Version No	Checked by Date:	Issued by Date:	Distributed to	Copies
1	G. Watts 22/10/2012	G. Watts 22/10/2012	GRA	
Signed	G. J. Wootts	G. J. Wooth	Wasterock Stratagen VDM	email

#### **Disclaimer**

This document has been prepared in accordance with a scope of works, set out in a proposal, or as otherwise agreed, between Wasterock (the Client) and MDW Environmental Services (MDWES). The scope of work may have been limited by time, budget, access and or other constraints and has been prepared in the absence of any knowledge of the study area other than that stated in this document. This document has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in accordance with the agreement between MDWES and the Client. MDWES accepts no liability or responsibility whatsoever in respect to its use, or reliance upon, by any third party outside of its intended use. This document has commercial confidence status. Copying of this report or any part thereof is not permitted without the authorisation of the Client, for the expressed purpose of regulatory assessment. Unless specifically agreed otherwise, MDWES retains intellectual property rights over the contents of this document.

Unless otherwise stated, MDWES regards the extent of investigations and assessments reasonable in the context of the scope of works and the purpose of the investigation. The information contained in this document is provided in good faith in the general belief that no information, opinions, conclusions or recommendations made are misleading, but are reasonable and appropriate at the time of issue of this document. This document must be read in its entirety. Users are cautioned that assumptions made in this document may change over time and it is the responsibility of the user to ensure that assumptions remain valid. Reported results, while accurate at the time of reporting cannot be considered absolute or conclusive without long term follow up studies.

Comments and opinions presented in this document are based on the extent of the scope of works and / or on information supplied by the Client, their agents and / or third parties. In preparing this document MDWES has relied upon reports, data, surveys, analyses, designs, plans and / or other information provided by the Client and other individuals and organisations outside its control. Except as stated otherwise in the document MDWES has not verified the accuracy or completeness of this information. To the extent that the statements, opinions, facts, information, conclusions and / or recommendations in the document are based in whole or part on this information, those are contingent upon the accuracy and completeness of the information. MDWES will not be liable in relation to incorrect conclusions should any information be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed.

Within the limitations imposed by the scope of work, the assessment of the study area and preparation of this document have been undertaken and performed in a professional manner, in accordance with generally accepted practices and using a degree of skill and care ordinarily exercised by reputable environmental consultants and occupational hygienists under similar circumstances. No other warranty, expressed or implied, is made. MDWES will not be liable to update or revise the document to take into account any events, circumstances or facts occurring or becoming apparent after the date of this document.

Specific warning is given that many factors, natural or artificial, may render conditions different from those that prevailed at the time of investigation and should they be revealed at any time, they should be brought to our attention so that its significance may be assessed and appropriate advice may be offered.

MDWES, its agents and employees, expressly disclaim any and all liability for representations, expressed or implied, contained in, or omissions from, this report or any of the written or oral communications transmitted to the Client or any third party.

Acceptance of this document denotes acceptance of these terms.

## **Table of Contents**

1	Ir	ntroduction	2
2	0	bjectives	2
3		DMINISTRATIVE REQUIREMENTS	
	3.1	Site Water License	
	3.2	Development timeframe	3
	3.3	Previous Investigations of the Water Source	
	3.4	Water Resource Management Plan	
	3.5	Responsible Contact for Implementing the Operating Strategy	
	3.6	Reporting Dates for Meters and Compliance	
	3.7	Major Review of Operating Strategy	
4	V	ATER SOURCE DESCRIPTION	
	4.1	Site Location and Water Source Condition	1
	4.2	Geology	3
	4.3	Acid Sulfate Soils	3
	4.4	Groundwater	6
	4.5	Hydrogeology	8
	4.6	Nearby Groundwater Users and Receptors	10
	4.7	Previous Groundwater Monitoring	12
	4.8	Groundwater Monitoring Criteria	13
	4.9	Groundwater Monitoring Tables	14
	4.10	Groundwater Monitoring Levels Summary	19
	4.11	Groundwater Monitoring Results Summary	19
	4.12	2 Groundwater Monitoring Discussion	22
	4.13	B Previous Groundwater Modelling	23
	4.14	j	
	4.15	Groundwater Modelling Results	23
	4.16	3	
5	IE	DENTIFYING AND MANAGING IMPACTS	28
	5.1	Changes to Water Quality	29
	5.2	Timeframe for Proposed Abstraction	29
	5.3	Dewatering Rates	
	5.4		
6	0	PERATING RULES	
	6.1	Abstraction Bore Network	
7	M	IONITORING AND REPORTING	
	7.1	Environmental Performance Indicators	
8	С	ONTINGENCY PROGRAM	
	8.1	Groundwater Quality	
	8.2	Groundwater Drawdown	
	8.3	Destruction of Groundwater Wells or Damage to Infrastructure	
	8.4	Dust Suppression/Soil Compaction or Discharge Effluent Quality	
9		TATUTORY REQUIREMENTS	
10		COMMUNITY CONCERNS REPORTING	
11		WATER USE EFFICIENCY	
12		SUMMARY LIST OF COMMITTMENTS	
_		ummary Monitoring Program	
ρI		RENCES	10

### **List of Tables**

Table 1	Regional Geological Summary	3
Table 2	Groundwater Source Description	
Table 3	Groundwater Level Depths and Changes (May – August 2012)	14
Table 4	Groundwater Results for GME#1	
Table 5	Groundwater Results for GME#2	17
Table 6	Issues and Management Strategies for Proposed Abstraction	28
Table 7	Rules for Operating Groundwater Abstraction bores	31
Table 8	Water Use Measurement	33
Table 9	Water Level Monitoring	33
Table 10	Water Quality Monitoring	34
Table 11	Summary of Assessment Criteria	
List of F	Figures	
Figure 1	Regional Site Map	1
Figure 2	Site Map and Monitoring Well Locations	
Figure 3	Acid Sulfate Soils Risk Map	
Figure 4	Groundwater and Aquifer Depths	9
Figure 5	Bush Forever and Wetlands Map	
Figure 6	Modelled Drawdown after 3 years of GW Abstraction	24
Figure 7	Drawdown Recovery: (A) One, (B) Two, (C) Five and (D) Ten - Years Following	
Abstra	action	26

# **List of Appendices**

Appendix A Bore Installation Logs and Geology
---

Appendix B DoW Online Search for Groundwater Licensees
Appendix C Survey Report following Monitoring Well Installation

#### 1 Introduction

This Operating Strategy (OS) has been prepared to manage proposed groundwater abstraction, to obtain water for use in dust suppression and surface compaction during the development works taking place at Lot 20 Adelaide Street, Hazelmere (herein referred to as the Site). The proposed development involves the transformation of current land use at the Site - from a closed landfill facility into industrial / commercial use (lot subdivision).

The Site occupies an area of approximately 16.95 Ha. Surface and sub-soil consists of Bassendean sands, with limonite-cemented sand (coffee rock) occurring throughout most of the property near the water table. Groundwater abstraction will be required from three proposed abstraction bores planned for the south western corner of the Site. Groundwater levels obtained from existing site observation bores vary from approximately 5.8 to 11 mAHD. Groundwater abstraction of 300 ML/yr for a four to five year duration is required for dust suppression and surface compaction. Abstraction will be shared equally across the three locations, for storage in two 50,000 L tanks and discharge through a standpipe into water carts as needed.

Under Section 5C of the *Rights in Water and Irrigation Act 1914* (RIWI Act), the approval and granting of a groundwater abstraction licence is required from the Department of Water (DoW) before abstraction can commence from the new bores, and an OS must also be prepared, approved and implemented. MDWES was consequently engaged by Wasterock Pty Ltd (the Client) to prepare this report.

Reference is made to the following Groundwater Monitoring Events GME#1 and GME#2 undertaken by MDWES in May 2012 and September 2012 respectively. These reports should be read in conjunction with this operation strategy report.

## 2 Objectives

This OS has been prepared in order to minimise impacts to the local environment from dust suppression and surface compaction related activities, resulting in the abstraction and removal of groundwater from beneath the Site.

The objectives of this OS are to:

- Protect life and well-being of humans and other forms of life, aesthetic enjoyment and local amenity in the region of the Site;
- Ensure development is consistent with the principles of ecologically sustainable development and the rehabilitation schedule prescribed;
- Comply with relevant statutory environmental requirements; and,
- Provide strategies aimed at reducing avoidable environmental harm during site rehabilitation.

#### 3 ADMINISTRATIVE REQUIREMENTS

#### 3.1 Site Water License

There is currently no Section 5C (of the RWI Act) water license applicable to the Site. An application to acquire a water license to cover the proposed groundwater abstraction activities will accompany this OS for submission to the DoW for approval.

#### 3.2 Development timeframe

There are no set stages for the remediation of the Site. It is anticipated that this will commence in early 2013. Construction and commission of abstraction bores (WRPB1, WRPB2 and WRPB3) is expected to take approximately 8 weeks, along with the equipping of bore head works, generators, pipes and water meters. Mobilisation of two 50,000 L storage tanks will also occur during this timeframe. Abstraction is assumed to be continuous for three (3) years.

#### 3.3 Previous Investigations of the Water Source

In May 2012, six monitoring bores were installed by MDWES and two sampling rounds followed, as discussed in Section 2. A study of regional geology was completed by Davidson (1995) some of which is discussed in Section 2. A regional hydrogeological study by Davidson and Yu (2006) is referred to in Sections 2 and Section 3, along with a site investigation completed by Dames and Moore (2006). No hydrogeological investigation has been completed thus far for the Site. Groundwater modelling was completed by NTEC (2012).

#### 3.4 Water Resource Management Plan

No plan is currently in place to manage abstracted water at the Site. This OS will be reviewed by the DoW following the approval of the Section 5C water license.

#### 3.5 Responsible Contact for Implementing the Operating Strategy

Name: Peter Moltoni

Position: Director

Organisation: Wasterock Pty Ltd

Phone: 0403569546

Email: pmoltoni@moltoni.com.au

#### 3.6 Reporting Dates for Meters and Compliance

At this stage, water quality data will be obtained monthly from monitoring bores and abstraction bores, as well as the storage tank outlet at the Site. Water meter totals will be captured monthly from the head works of the abstraction bores and also on the storage outlet line to the Standpipe. All results will be reported to the DoW within seven (7) days of the end to the annual groundwater licensing period. The water year is defined as 12 months from the last day in the month from when the water license is issued. Refer to Strategic policy 5.03: *Metering the taking of water* (2009) for further details. Monitoring/recording dates will be determined by the DoW.

Annual reports on compliance and commitments of the water license and the OS will be due within eight (8) weeks of the end to the annual groundwater licensing period. Refer to Operational Policy 5.12: *Hydrogeological reporting associated with a groundwater well licence* (2009) for further information. Reporting dates will be determined by the DoW.

#### 3.7 Major Review of Operating Strategy

The review of the strategy is scheduled to occur three months before the end to the annual groundwater licensing term. Any changes to the OS approved by the DoW will be retained within the working file for the licence documentation. The exact details of the annual groundwater licensing term, expiry date and reporting date will be specified in the conditions of Section 5C water licence, once issued by the DoW.

#### 4 WATER SOURCE DESCRIPTION

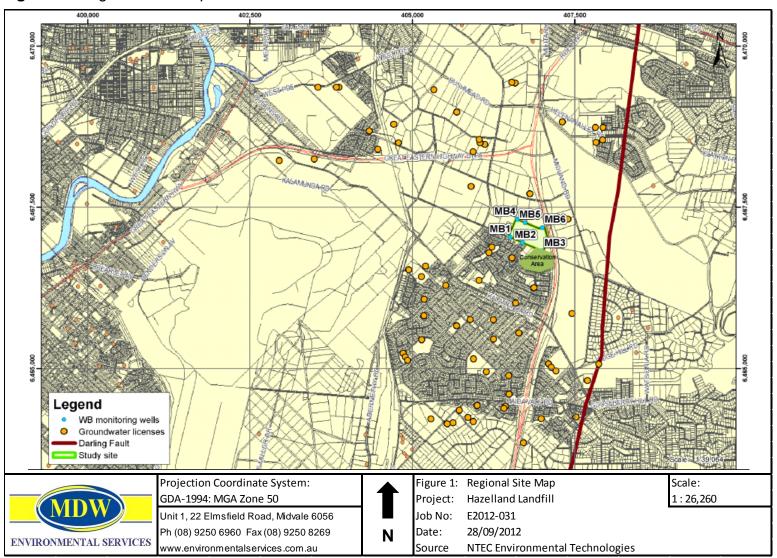
#### 4.1 Site Location and Water Source Condition

The Site is located at Lot 20 Adelaide Street, Hazelmere within the City of Swan, approximately 14 km east north east of the Perth CBD, 6 km east of the Swan River and 1 km west of the Darling Fault (Figure 1). It is currently vested with Hazelland Pty Ltd and has been so since 2006 under the Land Title City of Swan Location Lot 20 Volume 2054 / Folio 299.

The Site covers an area of approximately 16.95 Ha, bounded by Adelaide Street to the south, and Roe Highway to the east (Figure 2). Semi-rural properties containing discarded farming, market gardens and horse trotting tracks/stables flank the Site to the north, with a small operational industrial site (ice works) functioning adjacent to the western boundary, adjacent to the newly proposed abstraction bores.

Current topography varies across the Site from approximately RL 33 mAHD at the top of the inert fill mounds in the north east sector, to approximately RL 27 mAHD at the south, adjacent to Adelaide Street.

Figure 1 Regional Site Map



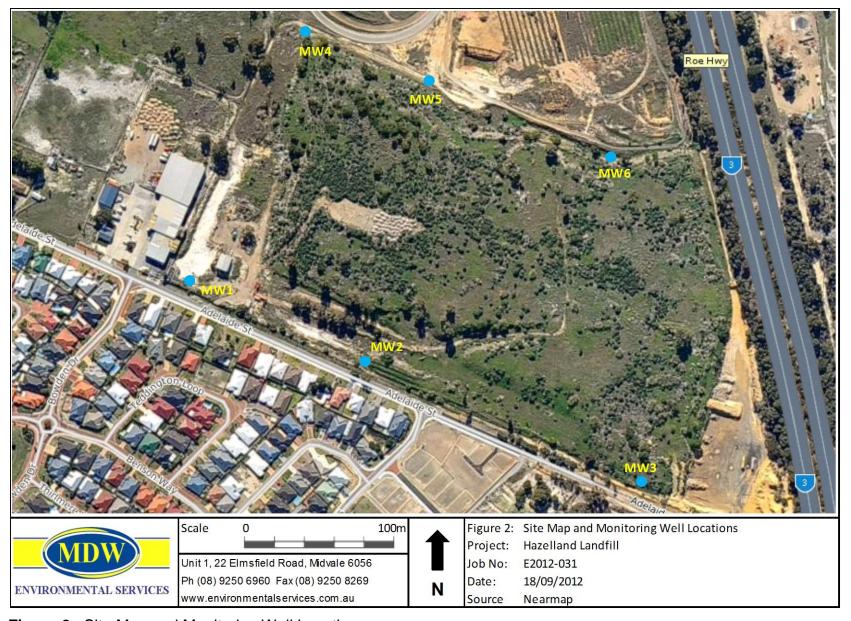


Figure 2 Site Map and Monitoring Well Locations

#### 4.2 Geology

According to the Geological Survey of Western Australia (1986) *Perth part sheets* 2034 *I and* 2034 *II,* 1:50,000 *Environmental Geology Series*, surface geology of the Site is made up of Quaternary aged Bassendean Sand, interlayered with bands of Guildford Clay. The regional geology is described below in Table 1.

 Table 1
 Regional Geological Summary

Geological	Description	Expected Depth
Unit		Interval
Bassendean Sand	<ul> <li>Colour is pale grey to white;</li> <li>Grain size is fine to coarse but mostly medium grained, with an upward progression of fines;</li> <li>Sorting is moderate;</li> <li>Rounding is subrounded to rounded (quartz sand).</li> </ul>	Surface to 80 mBGL

The superficial geology of the Site is Bassendean Sand, unconformably overlying the Cretaceous and Tertiary units. Bassendean Sands interfinger Guildford Clays in the east and conformably overlie Gnangara Sands. Colluvium exists to the east of the Site at the edge of the Darling Fault. The stratigraphic configuration of the Bassendean Sand with the Guildford Clay and Gnangara Sand suggests the formation was deposited under changing conditions, most likely alternating between fluvial, estuarine and shallow-marine environments (Davidson, 1995). To the north and west, surface geology comprises Guildford Clay.

An *Initial Contamination Assessment of Inert Landfill* was conducted for the Site by Dames and Moore (1992). The results of this investigation are compiled in the report entitled "Site Investigation, Former Adelaide Street Landfill Lot 20 Adelaide St, Hazelmere, Western Australia" (Parsons and Brinkerhoff, 2006).

Drilling logs from boreholes completed as part of the Dames and More investigation identified subsurface ground conditions that confirmed the following:

- Sand occurs within 1.2 m or less of the surface in the western and northern areas of the Site, extending to depths of up to 12 m, and;
- Sandy clays and clayey sands were observed near the surface towards the south eastern end of the Site, underlain by sand.

#### 4.3 Acid Sulfate Soils

The DEC ASS Risk Map obtained from the WA Groundwater Atlas (DoW, 2004) indicates that the entire Site is located within a Class 2 zone – designated as moderate to low risk of ASS occurring in the first 3 m of natural soil surface, and high to moderate risk of ASS occurring beyond 3 m of natural soil. An area of high to moderate ASS risk exists approximately 370 m west of the Site (Figure 3).

Field results indicate that the groundwater beneath the site varies from fresh to mildly acidic, with pH ranging from 5.83 to 7.41 (MDWES, 2012). This is an acceptable range of pH in groundwater, present within this locality.

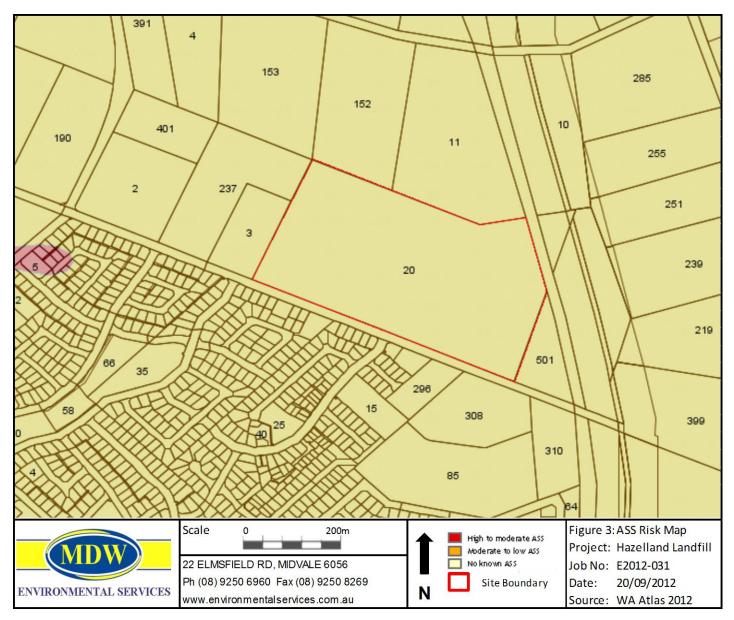


Figure 3 Acid Sulfate Soils Risk Map

#### 4.4 Groundwater

Groundwater comprises the primary source of water at the Site as there are no intersecting streams or surface water bodies. The Perth Groundwater Atlas (2003 contours) indicate that groundwater is encountered on average at approximately RL 14 – 16 mAHD (DoE, 2004). Details of monitoring bore locations, proposed abstraction points, construction and geology are included in Table 2.

The water distribution network at the Site will comprise of the following components:

- Three (3) abstraction/pumping bores;
- Groundwater pumps (1.5 kW capacity) installed in each bore;
- Head works attached to each pumping bore, installed with water meters (with totaliser/rate) and outlets for groundwater quality/quantity monitoring if required;
- Individual generators for each head works to provide power to each groundwater pump;
- Two (2) 50,000 L above groundwater storage tanks, with standpipe connected to an outlet junction from both, and;
- 150 mm pipe to direct abstracted water from bores to the storage tanks.

The abstracted groundwater is the only source of natural water at the Site.

 Table 2
 Groundwater Source Description

Bore name Monitoring Well (MW) or	oring Zone: GDA		Aquifer	Elevation (mAHD) of	Casing height	Depth to	Const. details (bore logs and
Production Bore (PB)	Easting	Northing	name	TOC	(cm)	bottom (m)	geology attached in Appendix B)
1. WRM W1	406504.4	6467036.79		27.281	45	6.650	Casing 0 – 3.0 mBGL Screen 3.0 – 6.0 mBGL
2. WRM W2	406693.90	6466947.24		30.607	68	10.443	Casing 0 – 6.0 mBGL Screen 6.0 – 9.5 mBGL
3. WRM W3	406997.15	6466823.95		34.622	51	14.580	Casing 0 – 6.0 mBGL Screen 6.0 – 14.5 mBGL
4. WRM W4	406617.75	6467311.73	Superficial Swan	27.751	64	11.122	Casing 0 – 6.0 mBGL Screen 6.0 – 10.0 mBGL
5. WRM W5	406731.40	6467262.78	Aquifer	29.034	56	12.162	Casing 0 – 6.0 mBGL Screen 6.0 – 12.0 mBGL
6. WRM W6	406998.45	6467183.20		31.611	65	9.895	Casing 0 – 6.0 mBGL Screen 6.0 – 10.0 mBGL
7. WRPB 1	TBA	TBA		ТВА	TBA	TBA	TBA
8. WRPB 2	ТВА	TBA		ТВА	TBA	TBA	ТВА
9. WRPB 3	ТВА	ТВА		ТВА	ТВА	ТВА	ТВА

Groundwater levels measured in monitoring bores WRMW1- WRMW6 were RL 19.2 - 23.6 mAHD in May, 2012, with levels potentially varying by 0.1 – 0.7 m from May to August (Table 3). The most proximate WIN data site with historical groundwater monitoring data is 61610508, located over 8 km from the Site. Water levels fluctuated at this location by over 2.8 m during the year period 2000 – 2013 and show a declining trend from around year 1970.

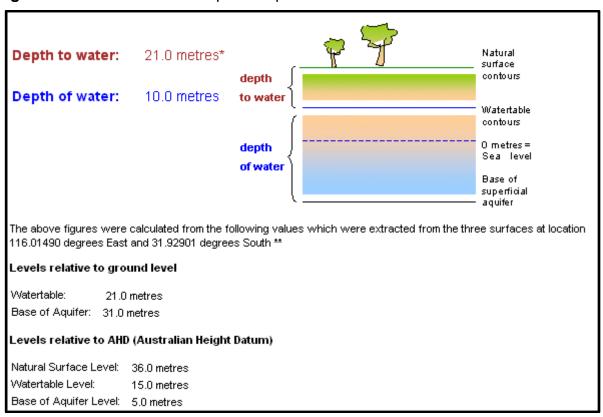
The natural topography of the Site is generally flat, with the lowest elevations in the west and north west, increasing in the east. Consequently, depths to water from the surface vary from 3.7 – 11.8 mBGL. Groundwater is predicted to flow in a north west direction,

originating from the Darling Ranges to the east. It passes beneath the Site, heading towards two wetlands, located approximately 1.5 km to the north west (DoE, 2004) and eventually reaches the Swan River, the most proximate river system located about 6 km to the east.

#### 4.5 Hydrogeology

The uppermost aquifer underlying the region of the Site is the unconfined Superficial Swan Aquifer (Water Register, 2012). Leederville and Yarragadee North aquifers underlie the Superficial. The base of the Superficial Swan Aquifer is mapped (DoE, 2004) indicating a depth of 5-7 mAHD at the Site, sloping upwards towards the Darling Fault and downwards towards the Swan River in the west (NTEC, 2012) with an estimated thickness of 10-25 m (Davidson and Yu, 2006). The maximum thickness is around 26 m at the Site (Figure 4).

Figure 4 Groundwater and Aquifer Depths



Based on the groundwater levels (Table 3), the hydraulic gradient of the Superficial Swan Aquifer at the Site is approximately 0.01 (NTEC, 2012) sloping downwards along a transect - that dips in the direction of the flux (to the north west corner of the Site). Regional investigations (Davidson and Yu, 2006) indicate that groundwater flow rate (or transmissivity) travelling through the Superficial Swan Aquifer ranges from 50 m/yr to over 1000 m/yr, with Site conditions likely to comprise the lower end of this range. Salinity in the Cloverdale area of the Superficial Aquifer beneath the surface, ranges from 500 to 1000 mg/L (DoE, 2004 and MDWES, 2012) which classifies groundwater quality as being fresh to mildly acidic at the Site.

The Superficial Swan Aquifer is recharged by natural rainfall, with 192 mm/yr being the net rainfall recharge to the Bassendean Sands according to DoW modelling (Xu et al., 2008). The Superficial Swan aquifer recharge rate is expected to be very similar or even the same as those of other underlying aquifers (Davidson and Yu, 2006).

Previous investigations indicate that prior to land use as a sand mine in the late 1970s and as a waste transfer station in the early 1980s, there may be two distinct aquifers occurring at the Site - an upper unconfined superficial aquifer, overlying a deeper aquifer that is potentially confined in parts. The aquifers may have been separated by naturally occurring clay layers from approximately RL 6 and RL 1 mAHD. It is understood that due to sand mining and landfill operations, the surface substrate was excavated to a depth of approximately RL -2 mBGL. This is likely to have removed the upper aquifer and confining clay layers, to expose the lower aquifer at surface level in the central portion of the Site.

In the area proposed for abstraction, clay is still present in the ground. The monitoring bore installations completed by MDWES in May, 2012 revealed some red clay banding at depths below the current site surface RL at WRMW1, from  $4-6\,\mathrm{mBGL}$ . These bands may still be acting as confining or semi confining layers between the yellow sands, creating multiple aquifers.

#### 4.6 Nearby Groundwater Users and Receptors

A search was undertaken on 16th April, 2012 for existing groundwater abstraction licenses within a 5 km radius of the Site (Appendix C). Nine groundwater licenses were granted within 1.5 km of the Site:

- GWL 000061690(002), GWL 000110971(002) and GWL 000152680(003) are north of Adelaide Street, and;
- GWL 000074457(003), GWL 000153812(001), three under GWL 000158077(005),
   GWL 000167041(001) and GWL 169011(003) are south of Adelaide Street and north of Kalamunda Road.

Each of these licenses are for the purpose of abstraction from the Superficial Swan Aquifer except for GWL 000110971(002) which takes water from the Leederville Aquifer.

Bush Forever Site #122 (Government of Western Australia, 2000) is located south east of the Site that is outlined in red, beyond Adelaide Street (Figure 5). Despite not being identified as a groundwater dependent ecosystem, it is suggested to be a Flora Conservation Area for plant communities representative of the Swan Coastal Plain. Multiple Use Wetland (MUW) also intersects the north west corner of the Site (Figure 5) though this area has been largely modified by human activity and is not considered susceptible to the groundwater abstraction planned for the Site.

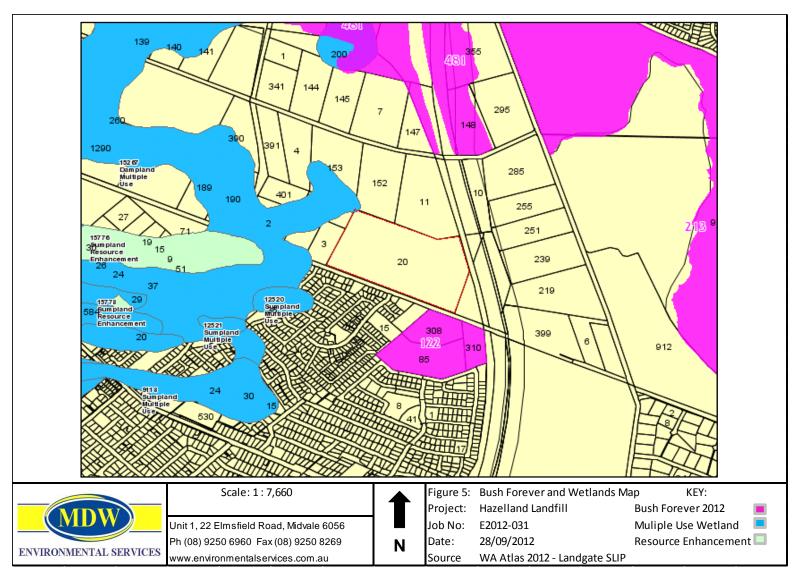


Figure 5 Bush Forever and Wetlands Map

#### 4.7 Previous Groundwater Monitoring

A groundwater investigation was completed by MDWES on 18th October, 2012 (GME#1), with sampling completed from six groundwater wells, WRMW1 – WRMW6, also installed by MDWES (results in Table 4). The results of this investigation are compiled in the report entitled "Groundwater Investigation Report –Lot 20 Adelaide Street Hazelmere" (MDWES, 2012).

A second round of groundwater sampling (GME#2) followed on 30th August, 2012 (results in Table 5). The locations of the groundwater monitoring wells are shown in Figure 2.

#### 4.8 Groundwater Monitoring Criteria

To determine background groundwater quality at the Site, and indication of the likely condition of groundwater proposed for abstraction, dust suppression and soil compaction, water quality results for GME#1 and GME#2 were compared against criteria outlined within the DEC's Contaminated Site Management Series - Assessment Levels for Soil, Sediment and Water (DEC, 2010).

Laboratory results were compared against the following criteria;

- Freshwater Ecosystem Trigger Values, Marine Ecosystem Trigger Values, Short-term Irrigation Water and the Long-term Irrigation Water from the Australian and New Zealand Guidelines for Fresh and Marine Water Quality prepared by the Australian and New Zealand Environment and Conservation Council (ANZECC, 2000);
- Drinking Water Health Value and Drinking Water Aesthetic Value from the Australian Drinking Water Guidelines (NHMRC & ARMCANZ, 2004); and,
- Domestic Non-potable Groundwater Use from the Department of Health's (DoH) Contaminated Sites Reporting Guideline for Chemicals in Groundwater (DoH, 2006).

On 18th August, 2011, WRMW1 – WRMW6 were analysed for water quality, total metals, nutrients, Organophosphate and Organochlorine (OP and OC) pesticides, Volatile Organic Compounds (VOCs), Monocyclic Aromatic Hydrocarbons (MAHs), oxygenated compounds, sulfonated compounds, halogenated aliphatic and aromatic compounds, trihalomethanes, phenolic compounds, Polynuclear Aromatic Hydrocarbons (PAHs), and Total Petroleum Hydrocarbons (TPHs).

Following a number of artificial exceedences for total metals (due to high suspended solids values), dissolved metals were included for a more representative metals analysis in GME#2 on 26th August, 2012.

## 4.9 Groundwater Monitoring Tables

 Table 3
 Groundwater Level Depths and Changes (May – August 2012)

Well I.D.	Date	<b>Ground Level</b>	Water Level			
weii i.b.	Date	RL mAHD	mBGL	RL mAHD		
WRMW1	18/05/2012	0.245	3.700	23.581		
VVKIVIVVI	30/08/2012	· · · · · · · · · · · · · · · · · · ·	3.455	23.826		
WRMW2	18/05/2012	-0.406	7.666	22.941		
VVKIVIVVZ	30/08/2012	-0.406	7.260	23.347		
\A/DA 4\A/2	18/05/2012	0.121	11.846	22.776		
WRMW3	30/08/2012	-0.121	11.725	22.897		
WRMW4	18/05/2012	0.710	8.509	19.242		
VVKIVIVV4	30/08/2012	-0.719	7.790	19.961		
\A/D\ <i>4</i> \A/E	18/05/2012	0.556	8.836	20.198		
WRMW5	30/08/2012	-0.556	8.280	20.754		
WRMW6	18/05/2012	0.456	8.759	22.852		
VVKIVIVVO	30/08/2012	U.45b	9.215	22.396		

 Table 4
 Groundwater Results for GME#1

		ANZECC & AR	MCANZ (2000) <sup>1</sup>	ADWG	(2004) <sup>2</sup>	DOH (2006) <sup>3</sup>	ANZECC & AR	MCANZ (2000) <sup>1</sup>						
Analyte grouping/Analyte	Units	Fresh Waters <sup>4</sup>	Marine Waters <sup>4</sup>	Drinking Water Health Value (HV)	Drinking Water	Domestic non- potable groundwater use	Short-term	Long-term Irrigation Water <sup>5</sup>	18/05/2012 WRMW1	18/05/2012 WRMW2	18/05/2012 WRMW3	18/05/2012 WRMW4	18/05/2012 WRMW5	18/05/2012 WRMW6
pH Value Electrical Conductivity	pH Unit μS/cm	6.5-8.5	8.0-8.4		6.5-8.5			6.0-8.5	6.58 635	6.14 307	7.41 1070	6.04 354	5.86 449	5.83 808
Total Dissolved Solids	mg/L								434	244	704	226	341	492
Suspended Solids Turbidity	mg/L NTU								582 166	292 236	425 383	144 86.9	59 137	50 76.6
Total Alkalinity CaCO <sub>3</sub>	mg/L								43	17	292	5	5	38
Acidity as CaCO <sub>3</sub>	mg/L			500	250	5000			15	26	16	8	13	22
Sulfate as SO <sub>4</sub> <sup>2-</sup> Chloride	mg/L mg/L			500	250 250	5000 2500			105 134	13 80	40 216	17 89	19 132	173 124
Total Metals		0.055			0.0	0	00	-	44.4	10.0	04.4	4.0	10	0.74
Aluminium Arsenic	mg/L mg/L	0.055 0.013		0.01	0.2	0.07	20	5 0.1	11.1 <0.001	16.2 <0.001	34.4 0.01	4.3 0.001	0.001	0.74 <0.001
Cadmium	mg/L	0.0002	0.0007	0.002		0.02	0.05	0.01	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001
Chromium Copper	mg/L mg/L	0.0014	0.0013	2	1	20	1 5	0.1	0.007 0.004	0.016 0.07	0.047 0.032	0.004 0.005	0.005 0.005	<0.001 0.002
Lead	mg/L	0.0034	0.0044	0.01		0.1	5	2	0.013	0.017	0.087	0.011	0.015	0.007
Manganese Molybdenum	mg/L mg/L	1.9		0.5 0.05	0.1	5 0.5	10 0.05	0.2	0.006 <0.001	0.026 <0.001	0.191 <0.001	0.016 <0.001	0.01 <0.001	0.034 <0.001
Nickel	mg/L	0.011	0.02	0.02		0.2	2	0.2	0.002	0.005	0.014	0.001	0.003	0.002
Selenium Silver	mg/L mg/L	0.005 0.00005	0.0014	0.01 0.1		0.1 1	0.05	0.02	<0.01 <0.001	<0.01 <0.001	<0.01 <0.001	<0.01 <0.001	<0.01 <0.001	<0.01 <0.001
Zinc	mg/L	0.008	0.015	0.1	3	30	5	2	0.008	0.08	0.068	0.017	0.011	0.012
Iron Mercury	mg/L mg/L	0.3	1.0 / 0.35 0.0001	0.001	0.33	3 0.01	10 0.002	0.2	0.29 0.0001	4.82 0.0001	11.9 <0.0001	0.88 <0.0001	0.49 <0.0001	10.4 <0.0001
Nutrients	IIIg/L	0.00006	0.0001	0.001		0.01	0.002	0.002	0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Ammonia as N	mg/L	0.9	0.91	2.0		20			0.06	0.36	0.03	0.11	0.01	1.64
Nitrite as N Nitrate as N	mg/L mg/L			3.0 50		30 500			0.03 5.15	0.02 0.62	<0.01 0.17	0.01 3.75	0.04 0.45	0.05 0.17
Kjeldhal Nitrogen	mg/L	4-1-4							0.5	0.5	0.3	0.5	0.1	1.6
Total Nitrogen Total Phosphorus	mg/L mg/L	1.0 / 2.0 <sup>1</sup> 0.1 / 0.2 <sup>1</sup>							5.7 0.01	1.1 0.15	0.5 0.24	4.3 0.04	0.6 0.02	1.8 0.03
Reactive Phosphorus	mg/L								<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulfide COD	mg/L mg/L	0.001							0.1 18	<0.1 16	<0.1 155	<0.1 11	<0.1 9	<0.1 25
BOD	mg/L								<2	3	69	4	3	26
Organochlorine Pesticides									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
alpha-BHC Hexachlorobenzene (HCB)	μg/L μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
beta-BHC	μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
gamma-BHC delta-BHC	μg/L 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
Heptachlor	μg/L	0.01							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aldrin Heptachlor epoxide	μg/L μg/L			0.05	0.3	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
trans-Chlordane	μg/L	0.03 2		0.01	1	10			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
alpha-Endosulfan cis-Chlordane	μg/L μg/L	0.03 <sup>3</sup>	0.005 <sup>3</sup>	0.05 0.01	30 1	30 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
Dieldrin	μg/L	0.00		0.01		10			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDE Endrin	μg/L	0.01	0.004						<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
beta-Endosulfan	μg/L μg/L	0.033	0.004 0.005 <sup>3</sup>						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDD	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
Endrin aldehyde Endosulfan sulfate	μg/L μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4.4`-DDT	μg/L	0.006		0.06	30	0.1			<2	<2	<2	<2	<2	<2
Endrin ketone Methoxychlor	μg/L μg/L								<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2
Aldrin plus dieldrin	μg/L			0.010	0.3	3			<1	<1	<1	<1	<1	<1
Organophosphorus Pestici Dichlorvos	des (OP) μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Demeton-S-methyl	μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Monocrotophos Dimethoate	μg/L μg/L	0.15			50	50			<2 <0.5	<2 <0.5	<2 <0.5	<2 <0.5	<2 <0.5	<2 <0.5
Diazinon	μg/L μg/L	0.01		1	3	1			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	μg/L	0.01	0.009		10	100			<0.5 <2	<0.5 <2	<0.5	<0.5	<0.5	<0.5
Parathion-methyl Malathion	μg/L μg/L	0.05							<0.5	<0.5	<2 <0.5	<2 <0.5	<2 <0.5	<2 <0.5
Fenthion	μg/L		0.000						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos Parathion	μg/L μg/L	0.01 0.004	0.009		10	10			<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2
Pirimphos-ethyl	μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorfenvinphos Bromophos-ethyl	μg/L 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
Fenamiphos	μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Prothiof os Ethiop	μg/L								<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	<0.5
Ethion Carbophenothion	μg/L 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
Azinphos Methyl	μg/L	0.02							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Monocyclic Aromatic Hydro Benzene	carbons μg/L	0.95	0.5	0.001		0.01			-	-	-	-	-	-
Toluene	μg/L			0.80	0.025	0.025			-	-	-	-	-	-
Ethylbenzene meta- & para-Xylene	μg/L μg/L	200		0.30	0.003	0.003			-	-	-	-	-	-
Styrene	μg/L μg/L			0.03	0.004	0.004			<5	<5	<5	<5	<5	<5
ortho-Xylene	μg/L	350							- <5	- <5	- <5	- <5	- <5	- <5
Isopropylbenzene n-Propylbenzene	μg/L μg/L								<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
1.3.5-Trimethylbenzene	μg/L								<5	<5	<5	<5	<5	<5
sec-Butylbenzene 1.2.4-Trimethylbenzene	μg/L μg/L								<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
tert-Butylbenzene	μg/L								<5	<5	<5	<5	<5	<5
p-lsopropyltoluene n-Butylbenzene	μg/L μg/L								<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
Oxygenated Compounds	µ9/∟													
Vinyl Acetate 2-Butanone (MEK)	μg/L μg/L								<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50
4-Methyl-2-pentanone (MIBK)	μg/L μg/L								<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50
									<50	<50	<50	<50	<50	<50

Sulfonated Compounds	ua/l							Æ	Æ	Æ	Æ	-E	JE.
Carbon disulfide	μg/L							<5	<5	<5	<5	<5	<5
Fum igants 2.2-Dichloropropane	μg/L							<5	<5	<5	<5	<5	<5
1.2-Dichloropropane	μg/L μg/L							<>>	<5 <5	<5	<5 <5	<5	<5 <5
cis-1.3-Dichloropropylene	μg/L							<5	<5	<5 <5	<5	<5	<5
trans-1.3-Dichloropropylene	μg/L							<5	<5	<5	<5	<5	<5
1.2-Dibromoethane (EDB)	µg/L							<5	<5	<5	<5	<5	<5
Halogenated Aliphatic Comp													
Dichlorodifluoromethane	μg/L							<50	<50	<50	<50	<50	<50
Chloromethane	μg/L							<50	<50	<50	<50	<50	<50
Vinyl chloride	μg/L			0.0003		0.003		<50	<50	<50	<50	<50	<50
Bromomethane	μg/L							<50	<50	<50	<50	<50	<50
Chloroethane	μg/L							<50	<50	<50	<50	<50	<50
Trichlorofluoromethane	μg/L							<50	<50	<50	<50	<50	<50
1.1-Dichloroethene	μg/L			0.03		0.3		<5	<5	<5	<5	<5	<5
lodomethane	μg/L							<5	<5	<5	<5	<5	<5
trans-1.2-Dichloroethene	μg/L							<5	<5	<5	<5	<5	<5
1.1-Dichloroethane	μg/L							<5	<5	<5	<5	<5	<5
cis-1.2-Dichloroethene	μg/L							<5	<5	<5	<5	<5	<5
1.1.1-Trichloroethane	μg/L							<5	<5	<5	<5	<5	<5
1.1-Dichloropropylene	μg/L							<5	<5	<5	<5	<5	<5
Carbon Tetrachloride	μg/L							<5	<5	<5	<5	<5	<5
1.2-Dichloroethane	μg/L			0.003		0.03		<5	<5	<5	<5	<5	<5
Trichloroethene	μg/L							<5	<5	<5	<5	<5	<5
Dibromomethane	μg/L							<5	<5	<5	<5	<5	<5
1.1.2-Trichloroethane	μg/L	6500	1900					<5	<5	<5	<5	<5	<5
1.3-Dichloropropane	μg/L							<5	<5	<5	<5	<5	<5
Tetrachloroethene	μg/L			0.05		0.5		<5	<5	<5	<5	<5	<5
1.1.1.2-Tetrachloroethane	μg/L							<5	<5	<5	<5	<5	<5
trans-1.4-Dichloro-2-butene	μg/L							<5	<5	<5	<5	<5	<5
cis-1.4-Dichloro-2-butene	μg/L							<5	<5	<5	<5	<5	<5
1.1.2.2-Tetrachloroethane	μg/L							<5	<5	<5	<5	<5	<5
1.2.3-Trichloropropane	μg/L							<5	<5	<5	<5	<5	<5
Pentachloroethane	μg/L							<5	<5	<5	<5	<5	<5
1.2-Dibromo-3-chloropropane	μg/L							<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	μg/L							<5	<5	<5	<5	<5	<5
Halogenated Aromatic Com	pounds												
Chlorobenzene	μg/L			0.30	0.01	0.01		<5	<5	<5	<5	<5	<5
Bromobenzene	μg/L							<5	<5	<5	<5	<5	<5
2-Chlorotoluene	μg/L							<5	<5	<5	<5	<5	<5
4-Chlorotoluene	μg/L							<5	<5	<5	<5	<5	<5
1.3-Dichlorobenzene	μg/L	0.26			0.02	0.02		<5	<5	<5	<5	<5	<5
1.4-Dichlorobenzene	μg/L	0.00		0.04	0.003	0.000		<5	<5	-E	_	<5	<5
1.+-DICTIOTODETIZETIE	µg/L	0.06				0.003				<5	<5		
1.2-Dichlorobenzene	μg/L	0.16		1.5	0.001	0.001		<5	<5	<5	<5	<5	<5
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene	μg/L μg/L	0.16 0.085	80	1.5 0.03	0.001 0.005	0.001 0.005		<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene	μg/L	0.16	80	1.5	0.001	0.001		<5	<5	<5	<5	<5	<5
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes	µg/L µg/L µg/L	0.16 0.085	80	1.5 0.03	0.001 0.005	0.001 0.005		ক ক ক	<5 <5 <5	<5 <5 <5	<5 <5 <5	<5 <5 <5	<5 <5 <5
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform	µg/L µg/L µg/L µg/L	0.16 0.085	80	1.5 0.03	0.001 0.005	0.001 0.005		ঠ ঠ ঠ	<5 <5 <5 <5	<5 <5 <5	<5 <5 <5	<5	\$ \$ \$ \$ \$
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane	µg/L µg/L µg/L µg/L µg/L	0.16 0.085	80	1.5 0.03	0.001 0.005	0.001 0.005		\$\ \psi\	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <5	<5 <5 <5 <5 <5	<5 <5 <5 <5 5 5	\$ \$ \$ \$ \$ \$ \$
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane	µg/L µg/L µg/L µg/L µg/L µg/L	0.16 0.085	80	1.5 0.03	0.001 0.005	0.001 0.005		\$ \$ \$ \$ \$ \$ \$	\$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	45 45 45 45 45 45 45 45 45	<5 <5 <5 <5 <5 <5	<5 <5 <5 <5 5 20	\$\tau\
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform	µg/L µg/L µg/L µg/L µg/L	0.16 0.085	80	1.5 0.03	0.001 0.005	0.001 0.005		\$\ \psi\	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <5	<5 <5 <5 <5 <5	<5 <5 <5 <5 5 5	\$ \$ \$ \$ \$ \$ \$
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds	µg/L µg/L µg/L µg/L µg/L µg/L	0.16 0.085 0.003		1.5 0.03	0.001 0.005	0.001 0.005		\( \delta \)	\$ \$ \$ \$ \$ \$ \$ \$ \$	\$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	<5 <5 <5 <5 <5 12 13	<5 <5 <5 <5 5 20 22	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol	µg/L µg/L µg/L µg/L µg/L µg/L	0.16 0.085 0.003	80	1.5 0.03 0.03	0.001 0.005 0.005	0.001 0.005 0.005		\$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <12 13 <1.0	<5 <5 <5 <5 20 22 <1.0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.16 0.085 0.003		1.5 0.03	0.001 0.005	0.001 0.005		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <12 13 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0	45 45 45 45 45 45 45 45 45 40 41.0 41.0
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	0.16 0.085 0.003		1.5 0.03 0.03	0.001 0.005 0.005	0.001 0.005 0.005		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$5 \$5 \$5 \$5 \$5 \$5 \$5 \$1.0 \$1.0 \$1.0 \$1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 <22 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.16 0.085 0.003		1.5 0.03 0.03	0.001 0.005 0.005	0.001 0.005 0.005		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	45 45 45 45 45 45 45 41.0 41.0 42.0	<5 <5 <5 <5 5 12 13 <1.0 <1.0 <2.0	<5 <5 <5 <5 <20	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <2.0
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.16 0.085 0.003		1.5 0.03 0.03	0.001 0.005 0.005	0.001 0.005 0.005		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <2.0 <1.0 <1.0	<5 <5 <5 <5 12 13 <1.0 <1.0 <2.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <2.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Initrophenol 2-Initrophenol 2-Initrophenol 2-Initrophenol 2-Initrophenol 2-Initrophenol	нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L нд/L	0.16 0.085 0.003 320 340		1.5 0.03 0.03	0.001 0.005 0.005	0.001 0.005 0.005		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <20 <22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.1	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.16 0.085 0.003		1.5 0.03 0.03	0.001 0.005 0.005	0.001 0.005 0.005		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <20 <22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2.4-Direthylphenol 2.4-Direthylphenol 2.4-Direthylphenol 2.6-Dichlorophenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.16 0.085 0.003 320 340		1.5 0.03 0.03	0.001 0.005 0.005	0.001 0.005 0.005		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <20 <22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-4-Direntylphenol 2.4-Direntylphenol 2.4-Dichlorophenol 2.6-Dichlorophenol 4-Chloro-3-Methylphenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.16 0.085 0.003 320 340		1.5 0.03 0.03	0.001 0.005 0.005	0.001 0.005 0.005		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <20	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2.4-Direthylphenol 2.4-Direthylphenol 2.4-Direthylphenol 2.6-Dichlorophenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.16 0.085 0.003 320 340		1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 2-Methylphenol 2-4-Dimethylphenol 2.4-Dimethylphenol 2.4-Dichlorophenol 2.6-Dichlorophenol 2.6-Dichlorophenol 2.4-Chioro-3-Methylphenol 2.4-Grichlorophenol 2.4-5-Trichlorophenol	ру/L ру/L	0.16 0.085 0.003 320 340		1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 45 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichloromethane 1.2.3-Trichloromethane 1.2.4-Dichloromethane 1.2.4-Dichlorophenol 1.2.4-Dichlorophenol 1.2.4-Dichlorophenol 1.2.4.5-Trichlorophenol	ру/L ру/L	0.16 0.085 0.003 320 340	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 45 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 2-Methylphenol 2-4-Dimethylphenol 2.4-Dimethylphenol 2.4-Dichlorophenol 2.6-Dichlorophenol 2.6-Dichlorophenol 2.4-Chioro-3-Methylphenol 2.4-Grichlorophenol 2.4-5-Trichlorophenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.16 0.085 0.003 320 340	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 45 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.4-Diromethane 1.2.4-Dirom	ру/L ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <2.0 <1.0 <2.0 <2.0	<5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <2.0 <1.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3-& 4-Methylphenol 2-Nitrophenol 2.4-Direthylphenol 2.4-Dichlorophenol 4-Chloro-3-Methylphenol 2.4.6-Trichlorophenol 2.4.5-Trichlorophenol Pentachlorophenol Pentachlorophenol Polynuclear Aromatic Hydro	ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 45 45 40 41.0 41.0 41.0 41.0 41.0 41.0 41.0 4	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenoli 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Mitrophenol 2-Initrophenol 2-4-Dichlorophenol 2.4-Dichlorophenol 4-Chloro-3-Methylphenol 2.4-5-Trichlorophenol 2.4.5-Trichlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene	µg/L µg/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 41.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-4-Dichlorophenol 2-4-Dichlorophenol 4-Chloro-3-Methylphenol 2-4-5-Trichlorophenol 2-4-5-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene	µg/L µg/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 45 45 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 2-Methylphenol 2-Nitrophenol 2-4-Dimethylphenol 2.4-Dimethylphenol 2.4-Dichlorophenol 2.4-Trichlorophenol 2.4-S-Trichlorophenol 2.4-S-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene	ру/L ру/L ру/L ру/L ру/L ру/L ру/L ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 45 45 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Mitrophenol 2-Mitrophenol 2-A-Dichlorophenol 2-Chloro-3-Methylphenol 2-Fichlorophenol 2-Fichlorophenol 2-Fichlorophenol 2-Fichlorophenol 2-Fichlorophenol 2-Fichlorophenol 2-Fichlorophenol 2-Fichlorophenol 2-Remain and the prophenol Polynuclear Aromatic Hydrophenol Acenaphthylene Acenaphthylene Fluorene Phenanthrene	Hg/L     H	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 45 45 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.1.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.1-Independent	ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Bromoform Phenolic Compounds Phenolic Compounds Phenolic Compounds Phenolic Compounds 2-Chlorophenol 2-Methylphenol 2-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-1-Dichlorophenol 2-1-Dichlorophenol 2-1-Dichlorophenol 2-1-Chloro-3-Methylphenol 2-1-S-Trichlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phoromatic Hydro Phenanthrene	ру/L ру/L ру/L ру/L ру/L ру/L ру/L ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 41.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <a href="#page-16">21.0</a> <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenoli 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Mitrophenol 2-Initrophenol 3-Initrophenol 3-Initr	ру/L ру/L ру/L ру/L ру/L ру/L ру/L ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 41.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	45 45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Methylphenol 2-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-4-Dichlorophenol 2-4-Dichlorophenol 2-4-Dichlorophenol 2-6-Dichlorophenol 2-6-Dichlorophenol 2-4-5-Trichlorophenol 2-4-5-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene Huorantene Phenanthrene Phenanthrene Phenanthrene Pyrene Benz(a)anthracene	ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 45 45 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Methylphenol 2-Methylphenol 2-Mitrophenol 2-Mitrophenol 2-4-Dirnethylphenol 2-4-Dirnethylphenol 2-4-Trichlorophenol 2-6-Dichlorophenol 2-6-Dichlorophenol 2-6-Trichlorophenol 2-1-5-Trichlorophenol	ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		45 45 45 45 45 45 45 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Mitrophenol 2-Mit	ру/L ру/L ру/L ру/L ру/L ру/L ру/L ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005		S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Methylphenol 2-Methylphe	Hg/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005 0.005		S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenoli 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Mitrophenol 2-Mitrophenol 2-Initrophenol 2	ру/L ру/L ру/L ру/L ру/L ру/L ру/L ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005 0.005		S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <td>45 45 45 45 45 45 45 40 41.0<td>&lt;5 &lt;5 &lt;5 &lt;5 &lt;5 12 13 &lt;1.0 &lt;1.0&lt;</td><td>&lt;5 &lt;5 &lt;5 &lt;5 20 22 &lt;1.0 &lt;1.</td><td>&lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;1.0 <p< td=""></p<></td></td>	45 45 45 45 45 45 45 40 41.0 <td>&lt;5 &lt;5 &lt;5 &lt;5 &lt;5 12 13 &lt;1.0 &lt;1.0&lt;</td> <td>&lt;5 &lt;5 &lt;5 &lt;5 20 22 &lt;1.0 &lt;1.</td> <td>&lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;5 &lt;1.0 <p< td=""></p<></td>	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0<	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <p< td=""></p<>
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Methylphenol 2-Methylphenol 2-Mitrophenol 2-Mitrophenol 2-Mitrophenol 2-A-Dichlorophenol 4-Chloro-3-Methylphenol 2.4-Dichlorophenol 4-Chloro-3-Methylphenol 2.4-5-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene Huoranthene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)prene Indeno(1.2.3.cd)pyrene	ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005 0.005		45 45 45 45 45 45 41.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	45 45 45 45 45 45 45 45 40 41.0	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Methylphenol 2-Mitrophenol 2-Mitrophenol 2-A-Dichlorophenol 2-4-Dichlorophenol 2-4-Dichlorophenol 2-4-Dichlorophenol 2-4-Direthylphenol 2-4-S-Trichlorophenol 2-4-S-Trichlorophenol 4-Chloro-3-Methylphenol 2-4-S-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Benzo(a)nthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1.2.3.cd)pyrene Indeno(1.2.3.cd)pyrene	Hg/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005 0.005		S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <4.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenolic Compounds Phenolic 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Mitrophenol 2-Mitrophenol 2-Mitrophenol 2-Inchlorophenol 2-Inchlorop	Hg/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005 0.005		S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <4.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Mitrophenol 2-Mit	Hg/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005 0.005		45 45 45 45 45 45 45 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenolic Compounds Phenolic Compounds Phenolic Compounds Phenolic Compounds 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Mitrophenol 2-Mitrophenol 2-4-Dichlorophenol 4-Chloro-3-Methylphenol 2-4-Dichlorophenol 4-Chloro-3-Methylphenol 2-4-5-Trichlorophenol Pentachlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1.2.3.cd)pyrene Dibenz(a.h)anthracene Benzo(g.h.i)perylene Total Petroleum Hydrocarb. C6 - C9 Fraction	Hay	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005 0.005		45 45 45 45 45 45 41.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20	S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0<	<5 <5 <5 <5 20 22 <a href="#page-16">21.0</a> <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20	45 45 45 45 45 45 45 45 40 41.0
1.2Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenoli 2-Methylphenol 2-Methylphenol 2-Methylphenol 2-Mitrophenol 2-Mitrophenol 2-4-Dichlorophenol 2-4-Dichlorophenol 2-4-Dichlorophenol 2-4-Dichlorophenol 2-4-5-Trichlorophenol 2-4-5-Trichlorophenol 2-4-5-Trichlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benza(a)anthracene Enuoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1.2.3.cd)pyrene Dibenz(a.h)anthracene Benzo(g.h.i)perylene Total Petroleum Hydrocarbo C6 - C9 Fraction C10 - C14 Fraction	Hg/L     H	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005 0.005		S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <50 <50	\$5 \$5 \$5 \$5 \$5 \$6 \$6 \$1.0<	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0<	<5 <5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0<	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2-Dichlorobenzene 1.2.4-Trichlorobenzene 1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenoli 2-Methylphenol 2-Chlorophenol 2-Methylphenol 2-Nitrophenol 2-Mitrophenol 2-4-Dichlorophenol 2-4-Dichlorophenol 2-4-Dichlorophenol 2-4-5-Trichlorophenol 2-4-5-	ру/L	0.16 0.085 0.003 320 340 120 3 3	400	1.5 0.03 0.03 300	0.001 0.005 0.005	0.001 0.005 0.005 0.005		S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <	S   S   S   S   S   S   S   S   S   S	<5 <5 <5 <5 <5 12 13 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0<	<5 <5 <5 <5 20 22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.

NOTES:

- SRT Healthy Rivers Action Plan Long Term / Short Term Targets
   pH > 6 / pH < 6</li>
   Average EC threshold for pastures in sandy soils
   Lower guideline limit (upper = 125)
   Lower guideline limit (upper = 12)

 Table 5
 Groundwater Results for GME#2

Table 5 Gro	anan	aler Result							1					
Analyte grouping/Analyte	Units	Fresh Waters	Marine Waters	Drinking Water Health Value (HV)	Drinking Water Aesthetic Value	DoH  Domestic non- potable	Short-term Irrigation Water	Long-term Irrigation Water	30/08/2012				30/08/2012	
pH Value	pH Unit	6.5-8.5	8.0-8.4	,	(AV) 6.5-8.5	groundwater use	<b>J</b>	6.0-8.5	6.77	<b>WRMW2</b> 5.72	7.83	<b>WRMW4</b> 5.96	<b>WRMW5</b> 5.72	<b>WRMW6</b> 5.87
Electrical Conductivity Total Dissolved Solids	μS/cm mg/L								716 474	292 169	901 567	144 83	97 56	914 578
Suspended Solids	mg/L								950	106	1610	9	660	6
Turbidity Total Alkalinity CaCO <sub>3</sub>	NTU mg/l								202 36	32	1120 157	10.8	854	4 10
Acidity as CaCO <sub>3</sub>	mg/L mg/L								35	42	18	21	<1 11	39
Sulfate as SO <sub>4</sub> <sup>2-</sup>	mg/L			500	250	5000			123	11	18	2	7	203
Chloride  Dissolved Metals	mg/L				250	2500			138	82	219	30	17	153
Aluminium	mg/L	0.055			0.2	2	20	5	0.09	0.03	0.02	0.06	1.48	0.15
Arsenic Cadmium	mg/L mg/L	0.013 0.0002	0.0007	0.01 0.00		0.07 0.02	0.05	0.1 0.01	<0.001 <0.0001	<0.001 <0.0001	0.002 <0.0001	<0.001 0.0001	0.001 <0.0001	<0.001 <0.0001
Chromium	mg/L	0.0002	0.0007	0.00		0.02	1	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	mg/L	1.9	0.00	0.50	0.1	5	10	0.2	0.004	0.003	0.108	0.005	0.005	0.032
Nickel Selenium	mg/L mg/L	0.011 0.005	0.02	0.02 0.01		0.2 0.1	2 0.05	0.2	0.002 <0.01	0.006 <0.01	0.003 <0.01	0.003 <0.01	0.004 <0.01	0.004 <0.01
Zinc	mg/L	0.008	0.015		3	30	5	2	0.013	0.025	0.006	0.01	0.021	0.016
Iron Ferrous Iron	mg/L mg/L	0.3	1.0 / 0.35		0.33	3	10	0.2	0.52	0.75 0.76	<0.05 <0.05	<0.05 <0.05	0.54 0.12	0.11 <0.05
Chromium VI	mg/L	0.001	0.0044	0.05		0.5			<0.010	<0.010	<0.010	<0.03	<0.010	<0.010
Total Metals		0.055											0.53	
Aluminium Arsenic	mg/L mg/L	0.055 0.013		0.01	0.2	0.07	20	5 0.1	7.69 <0.001	3.15 <0.001	24.9 0.007	1.61 <0.001	2.57 <0.001	0.41 <0.001
Cadmium	mg/L	0.0002	0.0007	0.002		0.02	0.05	0.01	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001
Chromium	mg/L	0.0014	0.0013	2	1	20	1 5	0.1 0.2	0.005 0.002	0.003 0.005	0.044 0.036	0.001 0.003	0.001 0.015	<0.001
Copper Lead	mg/L mg/L	0.0014	0.0013	0.01		0.1	5	0.2	0.002	0.005	0.036	0.003	0.015	0.003
Manganese	mg/L	1.9		0.5	0.1	5	10	0.2	0.004	0.004	0.129	0.006	0.002	0.034
Molybdenum Nickel	mg/L mg/L	0.011	0.02	0.05 0.02		0.5 0.2	0.05	0.01 0.2	<0.001 0.003	<0.001 0.006	0.001 0.019	<0.001 0.003	<0.001 0.002	<0.001 0.003
Selenium	mg/L	0.005		0.01		0.1	0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver	mg/L	0.00005	0.0014	0.1	0	1			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc Iron	mg/L mg/L	0.008	0.015 1.0 / 0.35		0.33	30	5 10	0.2	0.007 0.21	0.079 2.12	0.079 12.4	0.011	0.007 0.13	0.011 3.21
Mercury	mg/L	0.00006	0.0001	0.001	5.00	0.01	0.002	0.002	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nutrients	/1	0.0	0.04						0.00	0.00	0.45	0.05	0.00	0.70
Ammonia as N Nitrite as N	mg/L mg/L	0.9	0.91	3.0		30			0.03 0.02	0.03 0.01	0.45 0.02	0.05 <0.01	0.06 <0.01	0.73 0.02
Nitrate as N	mg/L			50		500			4.91	1.09	0.31	4.92	2.03	1.43
Kjeldhal Nitrogen Total Nitrogen	mg/L mg/L	1.0 / 2.01							1.4 6.3	0.3 1.4	1.4	1.1	1.5 3.5	1.1 2.6
Total Phosphorus	mg/L	0.1 / 0.21							0.19	0.03	0.51	0.12	0.23	0.02
Reactive Phosphorus	mg/L								<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulfide COD	mg/L mg/L	0.001							<0.1 14	<0.1 <5	<0.1 21	<0.1 7	<0.1 <5	<0.1 30
BOD	mg/L								<2	<2	5	<2	3	2
Organochlorine Pesticides	•	1							-0.5	-0.E	-0.E	-0.5	-0.5	-0.5
alpha-BHC Hexachlorobenzene (HCB)	μg/L 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
beta-BHC	μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
gamma-BHC delta-BHC	μg/L 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
Heptachlor	μg/L	0.01							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aldrin	μg/L			0.05	0.2	2			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor epoxide trans-Chlordane	μg/L μg/L	0.03 <sup>2</sup>		0.05 0.01	0.3 1	3 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
alpha-Endosulfan	μg/L	0.03 <sup>3</sup>	0.005 <sup>3</sup>	0.05	30	30			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-Chlordane Dieldrin	μg/L μg/L	0.03 2		0.01	1	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
4.4`-DDE	μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Endrin	μg/L	0.01	0.004						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
beta-Endosulfan 4.4`-DDD	μg/L μg/L	0.03 <sup>3</sup>	0.005 <sup>3</sup>						<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
Endrin aldehyde	μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate 4.4`-DDT	μg/L μg/L	0.006		0.06	30	0.1			<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2
Endrin ketone	μg/L	0.000		0.00	- 50	5.1			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methoxychlor	μg/L			0.040	0.0				<2	<2	<2	<2	<2	<2
Aldrin plus dieldrin  Organophosphorus Pestici	μg/L des (OP)			0.010	0.3	3			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorvos	μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Demeton-S-methyl Monocrotophos	μg/L μg/L								<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2
Dimethoate	μg/L μg/L	0.15			50	50			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon Chlorovrif on methyl	μg/L	0.01	0.000	1	3 10	1 100			<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5
Chlorpyrifos-methyl Parathion-methyl	μg/L μg/L	0.01	0.009		10	100			<0.5 <2	<0.5 <2	<0.5 <2	<0.5 <2	<0.5	<0.5 <2
Malathion	μg/L	0.05							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion Chlorpyrifos	μg/L μg/L	0.01	0.009						<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
Parathion	μg/L μg/L	0.004	0.009		10	10			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pirimphos-ethyl	μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorfenvinphos Bromophos-ethyl	μg/L 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
Fenamiphos	μg/L								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Prothiof os Ethion	μg/L								<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5
Ethion Carbophenothion	μg/L μg/L								<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
Azinphos Methyl	μg/L	0.02							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Monocyclic Aromatic Hydro Benzene	carbons μg/L	0.95	0.5	0.001		0.01			-	-	-	l -	-	l -
Toluene	μg/L μg/L	0.00	0.0	0.80	0.025	0.025			-	-	-	-	-	-
Ethylbenzene	μg/L	000		0.30	0.003	0.003			-	-	-	-	-	-
meta- & para-Xylene Styrene	μg/L μg/L	200		0.03	0.004	0.004			- <5	- <5	- <5	- <5	- <5	- <5
ortho-Xylene	μg/L	350							-	-	-	-	-	-
lsopropylbenzene	μg/L								<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
n-Propylbenzene 1.3.5-Trimethylbenzene	μg/L μg/L								<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
sec-Butylbenzene	μg/L								<5	<5	<5	<5	<5	<5
1.2.4-Trimethylbenzene tert-Butylbenzene	μg/L μg/L								<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
p-lsopropyltoluene	μg/L μg/L								<5	<5	<5	<5	<5	<5 <5
n-Butylbenzene	μg/L								<5	<5	<5	<5	<5	<5

Ir warmanatad Campaunda													
Oxygenated Compounds Vinyl Acetate	μg/L							<50	<50	<50	<50	<50	<50
2-Butanone (MEK)	μg/L μg/L							<50 <50	<50	<50 <50	<50	<50	<50 <50
4-Methyl-2-pentanone (MIBK)	μg/L							<50	<50	<50	<50	<50	<50
2-Hexanone (MBK)	μg/L							<50	<50	<50	<50	<50	<50
Sulfonated Compounds	P9/L												
Carbon disulfide	μg/L							<5	<5	<5	<5	<5	<5
Fumigants											<u>'</u>	<u> </u>	
2.2-Dichloropropane	μg/L							<5	<5	<5	<5	<5	<5
1.2-Dichloropropane	μg/L							<5	<5	<5	<5	<5	<5
cis-1.3-Dichloropropylene	μg/L							<5	<5	<5	<5	<5	<5
trans-1.3-Dichloropropylene	μg/L							<5	<5	<b>&lt;</b> 5	<5	<5	<5
1.2-Dibromoethane (EDB)	μg/L							<5	<5	<b>&lt;</b> 5	<5	<5	<5
Halogenated Aliphatic Comp	pounds												
Dichlorodifluoromethane	μg/L							<50	<50	<50	<50	<50	<50
Chloromethane	μg/L							<50	<50	<50	<50	<50	<50
Vinyl chloride	μg/L			0.0003		0.003		<50	<50	<50	<50	<50	<50
Bromomethane	μg/L							<50	<50	<50	<50	<50	<50
Chloroethane	μg/L							<50	<50	<50	<50	<50	<50
Trichlorofluoromethane	μg/L							<50	<50	<50	<50	<50	<50
1.1-Dichloroethene	μg/L			0.03		0.3		<5	<5	<5	<5	<5	<5
lodomethane	μg/L							<5	<5	<5	<5	<5	<5
trans-1.2-Dichloroethene	μg/L							<5	<5	<5	<5	<5	<5
1.1-Dichloroethane	μg/L							<5	<5	<5	<5	<5	<5
cis-1.2-Dichloroethene	μg/L							<5	<5	<5	<5	<5	<5
1.1.1-Trichloroethane	μg/L							<5	<5	<5	<5	<5	<5
1.1-Dichloropropylene	μg/L							<5	<5	<5	<5	<5	<5
Carbon Tetrachloride	μg/L							<5	<5	<5	<5	<5	<5
1.2-Dichloroethane	μg/L			0.003		0.03		<5	<5	<5	<5	<5	<5
Trichloroethene	μg/L							<5	<5	<5	<5	<5	<5
Dibromomethane	μg/L							<5	<5	<5	<5	<5	<5
1.1.2-Trichloroethane	μg/L	6500	1900					<5	<5	<5	<5	<5	<5
1.3-Dichloropropane	μg/L							<5	<5	<5	<5	<5	<5
Tetrachloroethene	μg/L			0.05		0.5		<5	<5	<5	<5	<5	<5
1.1.1.2-Tetrachloroethane	μg/L							<5	<5	<5	<5	<5	<5
trans-1.4-Dichloro-2-butene	μg/L							<5	<5	<5	<5	<5	<5
cis-1.4-Dichloro-2-butene	μg/L							<5	<5	<5	<5	<5	<5
1.1.2.2-Tetrachloroethane	μg/L							<5	<5	<5	<5	<5	<5
1.2.3-Trichloropropane	μg/L							<5	<5	<5	<5	<5	<5
Pentachloroethane	μg/L							<5	<5	<5	<5	<5	<5
1.2-Dibromo-3-chloropropane	μg/L							<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	μg/L							<5	<5	<5	<5	<5	<5
Halogenated Aromatic Com	pounds												
Chlorobenzene	μg/L			0.30	0.01	0.01		<5	<5	<5	<5	<5	<5
Bromobenzene	μg/L							<5	<5	<5	<5	<5	<5
2-Chlorotoluene	μg/L							<5	<5	<5	<5	<5	<5
4-Chlorotoluene	μg/L							<5	<5	<5	<5	<5	<5
1.3-Dichlorobenzene	μg/L	0.26			0.02	0.02		<5	<5	<5	<5	<5	<5
1.4-Dichlorobenzene	μg/L	0.06		0.04	0.003	0.003		<5	<5	<5	<5	<5	<5
1.2-Dichlorobenzene	μg/L	0.16		1.5	0.001	0.001		<5	<5	<5	<5	<5	<5
1.2.4-Trichlorobenzene	μg/L	0.005											
	μg/∟	0.085	80	0.03	0.005	0.005		<5	<5	<5	<5	<5	<5
1.2.3-Trichlorobenzene	μg/L	0.085	80	0.03	0.005 0.005	0.005 0.005		<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
	μg/L		80								<5		<5
1.2.3-Trichlorobenzene	μg/L μg/L		80					<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane	μg/L μg/L μg/L		80					<5 <5 <5	<5 <5 <5	√5 √5 √5	<5 <5 <5	<5 <5 <5	<5 <5 <5
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane	μg/L μg/L μg/L μg/L		80					<5 <5 <5 <5	<5 <5 <5 <5	\$5 \$5 \$5 \$5 \$5	<5 <5 <5 <5	<5 <5 <5 <5	\$ \$ \$ \$ \$
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform	μg/L μg/L μg/L		80					<5 <5 <5	<5 <5 <5	√5 √5 √5	<5 <5 <5	<5 <5 <5	<5 <5 <5
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds	μg/L μg/L μg/L μg/L	0.003						<5 <5 <5 <5 <5	<5 <5 <5 <5 <5	<5 <5 <5 <5 <5	45 45 45 45 45	<5 <5 <5 <5 <5	\$ \$ \$ \$ \$
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol	µg/L µg/L µg/L µg/L µg/L µg/L	0.003	400	0.03	0.005	0.005		<5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <5 <5 <5 <5	45 45 45 45 45 45 45 </td
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol	µg/L  µg/L  µg/L  µg/L  µg/L  µg/L  µg/L	0.003						<5 <5 <5 <5 <5 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.003		0.03	0.005	0.005		<5 <5 <5 <5 <5 <5 <5 <4.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <4.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <4.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <45 <4.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.003		0.03	0.005	0.005		<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <4.0 <1.0 <1.0 <1.0 <2.0	<5 <5 <5 <5 <5 <5 <5 <45 <4.0 <1.0 <1.0 <1.0 <2.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <2.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.003		0.03	0.005	0.005		<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <4.0 <1.0 <1.0 <2.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <40 <1.0 <1.0 <1.0 <1.0 <2.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <45 <4.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <2.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Jitrophenol	µg/L   µg/L	320 340		300	0.005	3000		<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-4-Dimethylphenol 2.4-Dimethylphenol	µg/L   µg/L	0.003		0.03	0.005	0.005		<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2.4-Dimethylphenol 2.6-Dichlorophenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	320 340		300	0.005	3000		<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Horophenol 2-Dimethylphenol 2.4-Dimethylphenol 2.6-Dichlorophenol 4-Chloro-3-Methylphenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	320 340 120		300	0.005	3000		<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-4-Dimethylphenol 2.4-Dichlorophenol 2.6-Dichlorophenol 4-Chloro-3-Methylphenol 2.4.6-Trichlorophenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	320 340		300	0.005	3000		<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-4-Dimethylphenol 2.4-Dimethylphenol 2.6-Dichlorophenol 4-Chloro-3-Methylphenol 2.4.6-Trichlorophenol 2.4.5-Trichlorophenol	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	320 340 120	400	300	0.005	3000		<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Com pounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-4-Dimethylphenol 2.4-Dimethylphenol 2.4-Dichlorophenol 4-Chloro-3-Methylphenol 2.4.6-Trichlorophenol 2.4.5-Trichlorophenol Pentachlorophenol	µg/L   µg/L	320 340 120 3 3		300	0.005	3000		<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-4-Dimethylphenol 2.4-Dimethylphenol 2.6-Dichlorophenol 4-Chloro-3-Methylphenol 2.4-5-Trichlorophenol Pentachlorophenol Pentachlorophenol	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-4-Dichlorophenol 2.4-Dichlorophenol 4-Chloro-3-Methylphenol 2.4-5-Trichlorophenol Pentachlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-4-Dichlorophenol 2.4-Dichlorophenol 4-Chloro-3-Methylphenol 2.4-5-Trichlorophenol Pentachlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-4-Dichlorophenol 2-6-Dichlorophenol 4-Chloro-3-Methylphenol 2.4.5-Trichlorophenol 2-4.5-Trichlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dichlorophenol 2-Dichlorophenol 4-Chloro-3-Methylphenol 2-4.5-Trichlorophenol 2-4.5-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dichlorophenol 2-Dichlorophenol 4-Chloro-3-Methylphenol 2-4.6-Trichlorophenol 2-4.5-Trichlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-1-Dichlorophenol 2-1-Dichlorophenol 2-5-Dichlorophenol 2-6-Dichlorophenol 2-6-Trichlorophenol 2-4-5-Trichlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene Fluorene Phenanthrene Anthracene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-1-Dichlorophenol 2-1-Dichlorophenol 2-5-Dichlorophenol 2-6-Dichlorophenol 2-6-Trichlorophenol 2-4-5-Trichlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene Fluorene Phenanthrene Anthracene Fluoranthene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene  Trihalom ethanes  Chloroform  Bromodichloromethane  Dibromochloromethane  Bromoform  Phenolic Compounds  Phenol  2-Chlorophenol  2-Methylphenol  3- & 4-Methylphenol  2-Nitrophenol  2-Nitrophenol  2-Dichlorophenol  2-Dichlorophenol  2-Dichlorophenol  2-S-Trichlorophenol  2-4.5-Trichlorophenol  Pentachlorophenol  Polynuclear Aromatic Hydro  Naphthalene  Acenaphthylene  Fluorene  Phenanthrene  Anthracene  Fluoranthene  Fluoranthene  Fluoranthene  Fluoranthene  Fluoranthene  Fluoranthene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene  Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dichlorophenol 2-Dichlorophenol 2-5-Dichlorophenol 2-6-Dichlorophenol 2-6-Trichlorophenol 2-4-5-Trichlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene  Trihalom ethanes  Chloroform  Bromodichloromethane  Dibromochloromethane  Bromoform  Phenolic Com pounds  Phenol  2-Chlorophenol  2-Methylphenol  3- & 4-Methylphenol  2-Nitrophenol  2-Nitrophenol  2-Dichlorophenol  2-Dichlorophenol  2-Dichlorophenol  2-S-Dichlorophenol  2-S-Trichlorophenol  2-S-Trichlorophenol  Polynuclear Aromatic Hydro  Naphthalene  Acenaphthene  Fluorene  Phenanthrene  Anthracene  Fluoranthene  Pyrene  Benz(a)anthracene  Chrysene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene  Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Com pounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2.4-Dimethylphenol 2.4-Dichlorophenol 4-Chloro-3-Methylphenol 2.4.5-Trichlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz (a) anthracene Chrysene Benzo(b) fluoranthene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenolic 2-Chlorophenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dichlorophenol 2-Dichlorophenol 2-Dichlorophenol 2-Frichlorophenol 2-A-Trichlorophenol 2-A-Trichlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene Huorene Phenanthrene Phenanthrene Fluoranthene Fluoranthene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene	µg/L   µg/L	320 340 120 3 3	400	200	0.005	2000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dimethylphenol 2-Dichlorophenol 2-Dichlorophenol 2-Dichlorophenol 2-S-Trichlorophenol 2-A-Trichlorophenol 2-A-Trichlorophenol 2-A-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Phuranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene	µg/L   µg/L	320 340 120 3 3	400	300	0.005	3000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <0.5	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <0.5	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0<	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0<	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dichlorophenol 2-Dichlorophenol 2-Dichlorophenol 2-S-Dichlorophenol 2-S-Trichlorophenol 2-A-Trichlorophenol 2-A-Trichlorophenol 2-A-Trichlorophenol 2-A-Trichlorophenol 2-A-Trichlorophenol 2-A-Trichlorophenol 2-A-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthracene Fluoranthene Pyrene Benz(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1.2.3.cd)pyrene	µg/L   µg/L	320 340 120 3 3	400	200	0.005	2000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dichlorophenol 2-Dichlorophenol 2-Dichlorophenol 2-S-Dichlorophenol 2-S-Trichlorophenol 2-A-5-Trichlorophenol 2-A-5-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1.2.3.cd)pyrene Dibenz(a.h)anthracene	µg/L   µg/L	320 340 120 3 3	400	200	0.005	2000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene  Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dichlorophenol 2-Dichlorophenol 2-Dichlorophenol 2-5-Dichlorophenol 2-6-Dichlorophenol 2-6-Trichlorophenol 2-1-5-Trichlorophenol 2-1-5-Trichlo	µg/L   µg/L	320 340 120 3 3	400	200	0.005	2000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dichlorophenol 2-Dichlorophenol 4-Chloro-3-Methylphenol 2-4.5-Trichlorophenol 2-4.5-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene Huorene Phenanthrene Phenanthrene Phenanthrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1.2.3.cd)pyrene Dibenz(a.h)anthracene Benzo(g.h.i)perylene Total Petroleum Hydrocarbe	µg/L   µg/L	320 340 120 3 3	400	200	0.005	2000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	<5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dichlorophenol 2-Dichlorophenol 2-5-Dichlorophenol 2-6-Dichlorophenol 2-6-Trichlorophenol 2-4-5-Trichlorophenol 2-4-5-Trichlorophenol Pentachlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene Huorene Phenanthrene Phenanthrene Phenanthrene Anthracene Fluoranthene Benzo(a) anthracene Chrysene Benzo(b) fluoranthene Benzo(b) fluoranthene Benzo(a) pyrene Indeno(1.2.3.cd) pyrene Dibenz(a.h) anthracene Benzo(g.h.i) perylene Total Petroleum Hydrocarbo C6 - C9 Fraction	µg/L   µg/L	320 340 120 3 3	400	200	0.005	2000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20 <20	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20 <20	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20	<5	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2.3-Trichlorobenzene  Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dichlorophenol 2-Dichlorophenol 2-Dichlorophenol 2-5-Trichlorophenol 2-4-5-Trichlorophenol 2-4-5-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene Fluorene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Benzo(a) anthracene Chrysene Benzo(b) fluoranthene Benzo(s) fluoranthene Benzo(a) pyrene Indeno(1.2.3.cd) pyrene Dibenz(a.h) anthracene Benzo(g.h.i) perylene Total Petroleum Hydrocarbo C6 - C9 Fraction C10 - C14 Fraction	µg/L   µg/L	320 340 120 3 3	400	200	0.005	2000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0<	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20 <50	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <2.0 <50	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <
1.2.3-Trichlorobenzene  Trihalom ethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Chlorophenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Dichlorophenol 2-Dichlorophenol 2-Dichlorophenol 2-5-Trichlorophenol 2-4-5-Trichlorophenol 2-4-5-Trichlorophenol Polynuclear Aromatic Hydro Naphthalene Acenaphthylene Acenaphthylene Fluorene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Benzo(a) philoromene Benzo(b) fluoranthene Benzo(a) pyrene Benzo(a) pyrene Indeno(1.2.3.cd) pyrene Dibenz(a.h) anthracene Benzo(g.h.i) perylene Total Petroleum Hydrocarbo C6 - C9 Fraction C10 - C14 Fraction C15 - C28 Fraction	µg/L   µg/L	320 340 120 3 3	400	200	0.005	2000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
1.2.3-Trichlorobenzene Trihalomethanes Chloroform Bromodichloromethane Dibromochloromethane Bromoform Phenolic Compounds Phenol 2-Chlorophenol 2-Methylphenol 3- & 4-Methylphenol 2-Nitrophenol 2-Nitrophenol 2-Indepenol 3-Indepenol 3-In	µg/L   µg/L	320 340 120 3 3	400	200	0.005	2000		<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0<	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20 <50	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <2.0 <50	<5 <5 <5 <5 <5 <5 <5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<5	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <

NOTES:

- SRT Healthy Rivers Action Plan Long Term / Short Term Targets
   pH > 6 / pH < 6</li>
   Average EC threshold for pastures in sandy soils
   Lower guideline limit (upper = 125)
   Lower guideline limit (upper = 12)

#### 4.10 Groundwater Monitoring Levels Summary

For the purposes of the OS, WRMW1 was the major location of focus considering that groundwater abstraction bores WRPB1, WRPB2 and WRPB3 are proposed for construction in the adjacent area.

Groundwater was intercepted for WRMW1 at a depth of 23.581 mAHD in GME#1, following the installation of the bore and logging of subsurface geology. In GME#2, some three months later, groundwater was recorded at 23.836 mAHD, a rise of some 0.255 m.

WRMW1 was installed to a depth of 6 m, constructed with screen from 3.0 – 6.0 mBGL and had a recorded stickup height of 0.45 mAGL. The mTOC RL surveyed was 27.281 m (Appendix D). The screened interval extends from approximately 3.0 mBGL to 6.0 mBGL (RL 23.831 to 20.831 mAHD), which consists of yellow sands/brown clay at 3.0 mBGL, tending to red clay at 5.0 – 6.0 mBGL.

#### 4.11 Groundwater Monitoring Results Summary

The following notes are the summaries of laboratory results and the comparison to assessment criteria for GME#1 and GME#2:

#### Total Petroleum Hydrocarbons (TPH)

Laboratory results for GME#1 indicate the presence of TPHs in WRMW3 and WRMW6, however detections are below assessment criteria.

Results for GME#2 reveal presence of TPHs in WRMW6 only, and detections are also below assessment criteria.

#### **Monocyclic Aromatic Hydrocarbons (MAH)**

MAHs were not detected in any of the samples analysed for GME#1 or GME#2.

#### **Polycyclic Aromatic Hydrocarbons**

PAHs were not detected in any of the samples analysed for GME#1 or GME#2.

#### **Phenois**

Laboratory results for GME#1 indicate the presence of 3-&4-Methylphenol within WRMW2. All other sample detects were below laboratory detection limits.

Results for GME#2 revealed a detection of 3-&4-Methylphenol within WRMW3, with WRMW2 and all other samples being below laboratory detection limits.

#### **Total Metals**

The following total metals exceedances were detected:

- Aluminium exceeded the following assessment criteria at the associated locations in GME#1;
  - WRMW3 exceeded all assessment criteria;

- WRMW1, WRMW2 and WRMW5 exceeded all assessment criteria excluding the Short-term Irrigation levels;
- WRMW4 exceeded the Domestic Non-potable groundwater use, Drinking Water Aesthetic Values, Fresh Waters criteria, and;
- WRMW6 exceeded Drinking Water Aesthetic Values and Fresh Waters criteria.
- Aluminium exceeded the following assessment criteria at the associated locations in GME#2;
  - WRMW3 exceeded all assessment criteria;
  - WRMW1 exceeded all assessment criteria excluding the Short-term Irrigation levels;
  - WRMW2 and WRMW5 exceeded all assessment criteria excluding both Short-term Irrigation and Long-term Irrigation levels, and;
  - WRMW4 and WRMW6 exceeded Drinking Water Aesthetic Values and Fresh Waters criteria.
- Copper exceeded the Fresh Waters and Marine Waters criteria for all locations in GME#1 and GME#2;
- Lead was exceeded for the following assessment criteria at the associated locations in GME#1;
  - WRMW1 WRMW5 exceeded Drinking Water Health Values, Fresh Waters and Marine Waters criteria, and;
  - WRMW6 exceeded Marine Waters and Fresh Waters criteria.
- Lead was exceeded for the following assessment criteria at the associated locations in GME#2;
  - WRMW1 and WRMW3 exceeded Drinking Water Health Values, Fresh Waters and Marine Waters criteria, and;
  - WRMW4 and WRMW6 exceeded Marine Waters and Fresh Waters criteria.
- Manganese exceeded Drinking Water Aesthetic Values, Drinking Water Health Values, and Fresh Waters criteria at WRMW3 for GME#1 and GME#2;
- Nickel exceeded Fresh Waters criteria in WRMW3 in GME#1 and for GME#2:
- Zinc exceeded the following assessment criteria at the following locations in GME#1;
  - Fresh Waters and Marine Waters criteria was exceeded at WRMW2, WRMW3 and WRMW4, and:
  - Fresh Waters criteria were exceeded at WRWRMW5 and WRWRMW6.
- Zinc exceeded the following assessment criteria at the following locations in GME#2;
  - Marine Waters and Fresh Waters criteria was exceeded at WRMW2 and WRMW3, and:
  - Fresh Waters criteria was exceeded at WRMW4 and WRMW6.

- Iron exceeded assessment criteria at the following locations for the associated locations in GME#1;
  - WRMW3 and WRMW6 exceeded all assessment criteria,
  - WRMW2 exceeded all assessment criteria with the exception of Shortterm Irrigation criteria;
  - Drinking Water Aesthetic Values, Long-term Irrigation, Fresh Waters and Marine waters criteria was exceeded at WRMW4 and WRMW5, and:
  - WRMW1 exceeded Short-term Irrigation criteria.
- Iron exceeded assessment criteria at the following locations for the associated locations in GME#2:
  - WRMW3 exceeded all assessment criteria;
  - WRMW6 exceeded all assessment criteria, excluding Short-term Irrigation;
  - WRMW2 and WRMW4 exceeded all assessment criteria, with the exception of Short-term Irrigation Water and Domestic non-potable groundwater use, and;
  - o WRMW1 exceeded Long-term Irrigation Water criteria.
- Mercury exceeded Fresh Waters criteria at WRMW1 and WRMW2 in GME 1

Mercury was not detected in any locations during GME#2. Nickel exceeded Fresh Waters criteria in GME#2 but did not exceed it during GME#1. Total metals concentrations that exceeded relevant criteria in general were less in GME#2 than in GME#1.

#### **Dissolved Metals**

In GME#2, dissolved metals were selected for analysis in consideration of the elevated number of detects for total metals during GME#1. There was thought that higher than expected Total Suspended Solids (TSS) may have artificially increased these background results for total metals. The following dissolved metals exceeded assessment criteria in GME#2:

- Aluminium in WRMW5 exceeded Drinking Water Aesthetic Value and Fresh Waters criteria, with WRMW1, WRMW4 and WRMW6 exceeding Fresh Waters criteria only:
- Zinc in WRMW2, WRMW5 and WRMW6 exceeded Marine Waters criteria, whilst WRMW1 and WRMW4 exceeded Fresh Waters criteria only, and;
- Iron in WRMW1, WRMW2 and WRMW5 exceeded Fresh Waters criteria.

#### **OC Pesticides**

OC pesticides were below laboratory assessment criteria for all laboratory samples during GME#1 and GME#2.

#### **OP Pesticides**

OP pesticides were not detected in any of the samples analysed. It is noted that the primary laboratory detection limits were not low enough to detect methyl parathion at DNPGW trigger values during both GME#1 and GME#2.

#### **Major Anions and Cations**

No exceedances were identified in GME#1 or GME#2.

#### **Nutrients**

Ammonia (NH<sub>3</sub>-N) exceeded Fresh and Marine Water criteria for WRWRMW6 in GME#1 but did not exceed any criteria in GME#2.

Total Nitrogen exceeded Fresh Waters assessment criteria for WRMW1, WRMW2, WRMW4 and WRMW6 in GME#1, with WRMW1 – WRMW6 all exceeding Fresh Waters criteria for GME#2.

Total Phosphorus exceeded Fresh Waters criteria at WRMW2 and WRMW3 in GME#1, with WRMW1, WRMW3, WRMW4 and WRMW5 all exceeding Fresh Waters criteria in GME#2.

WRMW1 exceeded Fresh Waters criteria for Sulphide in GME 1, with no exceedences reported for GME 2.

#### 4.12 Groundwater Monitoring Discussion

Conductivity results from WRMW1 – WRMW6 indicate that water beneath the Site is Fresh, as does the regional salinity data (DoW, 2004). These results indicate that the clay layer between aquifers may not be complete, and there may be a connection between a shallow aquifer across the Site and the Superficial Swan Aquifer below.

pH levels are considered fresh to mildly acidic. pH was in the Fresh Waters and Drinking Water Aesthetic Value ranges for WRMW1 but values were below these ranges and also marginally below the range for Long-term Irrigation in WRMW2, WRMW4, WRMW5 and WRMW6. However this is considered to be an acceptable range for pH values for groundwater within this locality.

Metalloid results (dissolved) were considered more representative of the Site in GME#2 and of the water quality proposed for abstraction, as these may have been artificially elevated by suspended solids in total metals results for GME#1. Levels are considered suitable for groundwater abstraction.

Despite that nutrient levels were slightly elevated above ANZECC criteria, surface waters are not located in the immediate vicinity of the Site and downstream receptors of the groundwater flux are likely to be more significantly impacted by land uses to the north.

#### 4.13 Previous Groundwater Modelling

A simplified numerical model of the groundwater conditions and abstraction regime proposed was constructed by NTEC (2012) to estimate drawdown at the Site. Differential results and estimates for environmental impacts were obtained, as a hydrogeological study has not yet been completed for the Site.

#### 4.14 Groundwater Modelling Characteristics Adopted

The model consisted of the Superficial Swan Aquifer in the region of the site, consisting of the following characteristics:

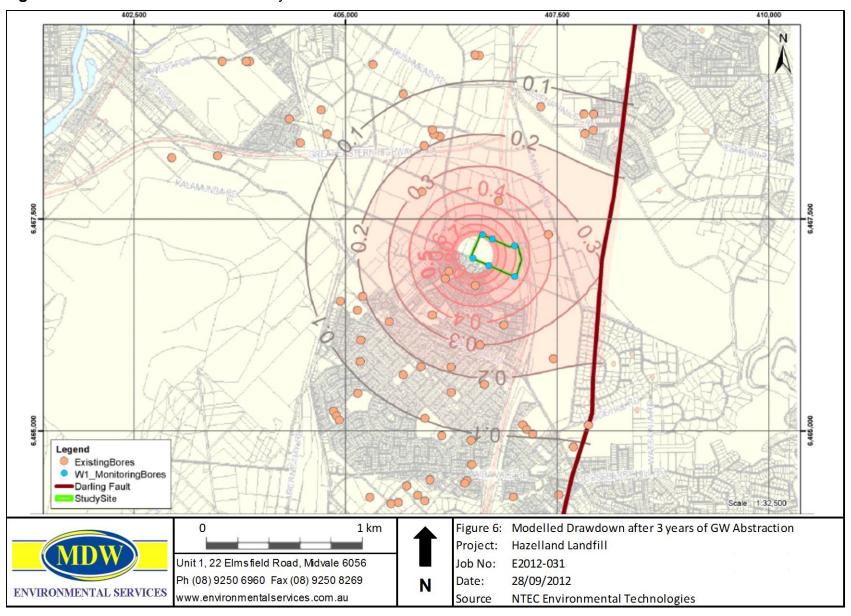
- An unconfined homogeneous aquifer (as water quality results and well logs have suggested that this is most likely to be the case);
- Horizontal ground surface at 27 mAHD;
- Horizontal water table at 22 mAHD;
- Horizontal base of aguifer at 5 mAHD for total depth of 22 m;
- Saturated thickness of 17 m;
- No connection to underlying aquifers;
- No net rainfall recharge (to provide conservative over-estimate of pumping impact); and,
- Horizontal and vertical hydraulic conductivity through the aquifer, and adopted yield values based on the PRAMS model.

Abstraction was represented with a single pumping bore located in the south west corner of the Site, although three separate bores will be used for the proposed abstraction, pumping simultaneously within 30 m of each other. The bore was screened at the bottom of the Superficial Swan Aquifer. Pumping rates were 300 ML/yr (or 821.3 m³/day). Pumping was assumed to be continuous for three years in the scenario, with the model run for an additional 10 years in order to simulate the rates of groundwater recovery/aquifer recharge.

#### 4.15 Groundwater Modelling Results

Figure 6 demonstrates the drawdown affect after three years of pumping from the water table. The monitoring bore adjacent to the pumping bore, WRMW1 experiences 1.40 m of drawdown, with a drawdown contour of 0.2 m stretching to a radius of approximately 1.6 km from the modelled pumping bore. Drawdown does not occur beyond the Darling Fault.

Figure 6 Modelled Drawdown after 3 years of GW Abstraction

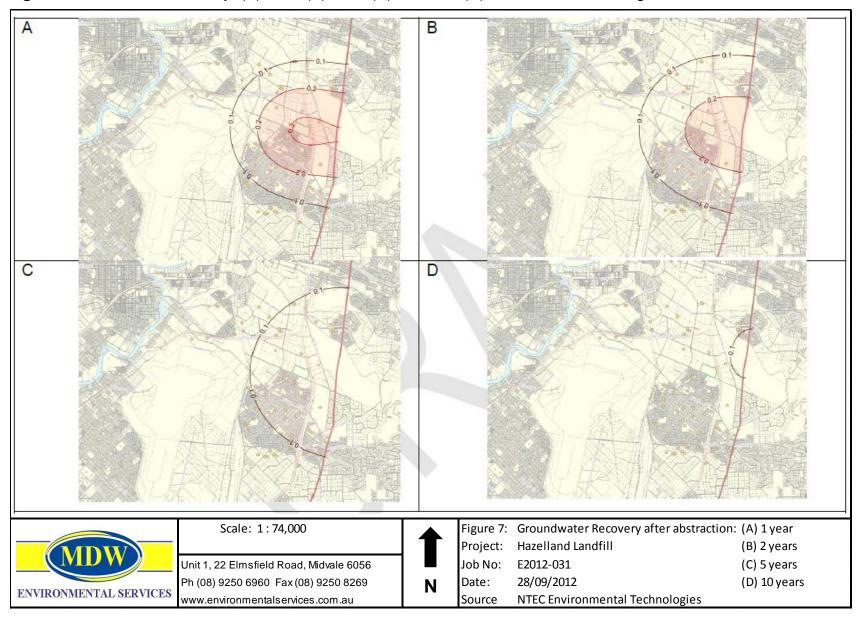


Since the precise geographic locations for nearby users are not available, it is not possible to quantify impacts. Twelve (12) licensed groundwater bores may encounter drawdown impacts of up to 0.2 m. Three (3) licensees will have impacts exceeding 0.6 m drawdown and five (5) licensees will sustain impacts up to 0.3 m. Twenty three (23) other licensed locations may have impacts exceeding 0.1 m of drawdown.

The conservation area has WRMW3 situated adjacent to the north. Drawdown of the water table at this bore is expected to be 0.56 m, with all of the conservation area lying within the 0. m drawdown contour, following three years of groundwater abstraction.

Figure 7 shows the drawdown from one, two, five and ten years after pumping ceases.

Figure 7 Drawdown Recovery: (A) One, (B) Two, (C) Five and (D) Ten - Years Following Abstraction



### 4.16 Groundwater Modelling Discussion

Modelling results indicated that after three years, proposed abstraction induced up to 0.7 m of additional drawdown from nearby licensed groundwater users or conservation areas. This was dependent on the location of the three proposed pumping bores, in relation to the one used in the model. Groundwater levels are expected to recover quickly, with a drawdown of less than 0.2 m at all locations, following cessation of pumping. Variable aquifer thickness, groundwater flux in the region and rainfall recharge could be additional variables to consider, for a more representative outcome.

### 5 IDENTIFYING AND MANAGING IMPACTS

The anticipated impacts and risks likely to evolve from the proposed abstraction - to local groundwater, nearby users and local ecology are identified, discussed and addressed with management responses in Table 6.

Consultation with the DoW about each management objective will take place, before the groundwater license is issued. Any amendments to issues and strategies included in Table 6 will be included in the 5C water license and an amended version of this OS.

 Table 6
 Issues and Management Strategies for Proposed Abstraction

Issue	Management Objective	Measurement	Management Response
Reliable water supply for abstraction	Maintain a supply of water that satisfies 300 ML/yr whilst not drawing down the groundwater level excessively	Monthly groundwater level measurement of site monitoring wells	Reduce the need for continuous groundwater abstraction once the water storage tanks are filled to a safe but sustainable level for site works     Only abstract 821.3 m3/day (across WRPB1, WRPB2 and WRPB3) to avoid excess drawdown of the aquifer, especially during drier months.     Abstract less water during rain periods and also if water storage tanks have a large surplus of water not being allocated for site use
Salinity and Water Quality	<ul> <li>Salinity of water abstracted to remain less than 1000 mg/L TDS</li> <li>Groundwater quality to remain unchanged from the background readings obtained by MDWES (no additional exceedences of sampling criteria)</li> </ul>	Monitoring bores     WRMW1 - WRMW6 and     abstraction bores     WRPB1 - WRPB3     sampled monthly for     water quality     Monitoring of the     standpipe water/outlet     from Storage Tanks     monthly to avoid stored     water becoming stagnant	Notify the DoW as specified in the water license - if any changes to groundwater are detected     Re-sample from the groundwater location where the change in water quality is detected, and consult the DoW for further recommendations
Other users	<ul> <li>Do not impact on neighbouring water availability</li> <li>Keep drawdown to a minimum for neighbouring users</li> </ul>	Water level measured monthly from WRMW1 – WRMW6     WRMW1-WRMW6 will be considered as observation bores for the abstraction	Make other users aware of abstraction proposal     Reduce abstraction rate/frequency if drawdown exceeds those amounts anticipated to occur from modelling outcomes

Risk of flooding during abstraction	Keep watertable below a specific level if possible     Have capacity to extract additional water or install additional production bores if required to lower groundwater RL	Water levels measured monthly in monitoring bores (WRMW1 – WRMW6) but this can be increased to weekly if flooding or groundwater recharge becomes a concern	Contact DoW in the event of flooding for approval to abstract additional groundwater or to install additional production bores if required, also if to monitor water levels more frequently
Disturbance to Flora	Abstraction does not impact on the health of natural flora, especially in Bush Forever Site #122     No natural flora remains at the Site	Flora surveys, and water level monitoring monthly - for the Bush Forever Site #122	Ecologist to examine trends in groundwater abstraction, comparing it to flora health     Abstraction volumes/frequency to be reduced if flora surveys reveals species declination as a result of site abstraction

### 5.1 Changes to Water Quality

Any alterations to the pH, salinity and chemistry of the groundwater during abstraction, may have an adverse impact on the quality of groundwater used for dust suppression and soil compaction within the vicinity of the Site. This will be monitored in monthly sampling rounds for monitoring (or observation) bores at the Site, and a monitoring well present in Bush Forever Site #122 to the south east.

The Client has been advised that these abstraction activities on Site will require a formal licence (according to Section 5C of the RWI Act) to take groundwater from the three newly proposed production bores, issued by the DoW. An application for this licence accompanies this OS.

#### 5.2 Timeframe for Proposed Abstraction

Commencement of the abstraction proposal is expected in early 2013. Production bore installation and commissioning, as well as the mobilisation of bore head works, generators, piping and two (2) groundwater storage tanks for sustaining three (3) production bores is expected to take about 8 weeks. It is assumed that groundwater abstraction for dust suppression and soil compaction activities will be continuous for three years and pumping shared across each production bore, although this may change to an intermittent pumping schedule, based on weather conditions and the amount of drawdown/recharge experienced at the Site and surrounds once pumping commences.

#### 5.3 Dewatering Rates

Groundwater abstraction rates for the duration of pumping are expected to be in the order of 300 ML/year, or 821.3 m3/day. Pumping may be allocated across either one, two or all three of WRPB1, WRPB2 and WRPB3 at any given time. A pumping schedule may be adopted to reprieve any tired or damaged bores and continue pumping others that are in more suitable working condition, but this is yet to be decided.

#### 5.4 Radius of Influence

Based on the outcomes of NTEC (2012) the estimated *maximum* radius of influence is roughly 1.95 km meters for a maximum drawdown of 0.1 m, and estimated *maximum* drawdown for the proposal is approximately 1.2 m in WRMW2, the most proximate bore to the area on Site that is proposed for abstraction.

A search of the DoW online Water Register was conducted by MDWES to identify groundwater bores surrounding the Site (Appendix C). Twelve licensed groundwater bores may encounter drawdown impacts of up to 0.2 m. Three licensees will have impacts exceeding 0.6 m drawdown and five licensees will sustain impacts up to 0.3m. Twenty-three other licensed locations may have impacts exceeding 0.1 m drawdown. Levels in WRMW3 adjacent to Bush Forever Site number #122, are projected to fall by 0.4 m over the full 4 to 5 years of pumping.

Despite being within the radius of influence; no adverse environmental drawdown effects (for flora or water quality) are anticipated to be observed in the neighbouring licensee bores surrounding the Site, due to the minimal drawdown of the Superficial Swan Aquifer during abstraction and the rapid recharge anticipated to follow once pumping is complete. Even for the location revealing the greatest amount of drawdown (shown in the modelling), the quantity is considered representative of seasonal groundwater level change and may be offset by increased rainfall during winter months.

### **6 OPERATING RULES**

#### 6.1 Abstraction Bore Network

Most of the operating controls for this proposal are to govern the operation of the abstraction bore network. These will vary seasonally and under different operating conditions. One production bore may operate as a primary source, with secondaries or back-up bores on standby, but all are expected to operate simultaneously – at least for the commencement of groundwater abstraction at the Site.

 Table 7
 Rules for Operating Groundwater Abstraction bores

Bore name	Installed pumping capacity (L/sec)	Operating protocols	Bore abstraction strategy
WRPB1, WRPB2 and WRPB3	Max 15 L/sec	Each bore is designed to pump at 3 x the rate required when all three abstraction bores are pumping simultaneously     Based on the number of bores utilised at a time, a rate of 9.505 L/sec, 821.3 m3/day or 300 ML/year is to be maintained under normal pumping conditions	Bores may be turned on or off depending on amount of abstraction required and this could vary based on seasonal weather conditions, flood occurrence, if storage water supply reaches capacity, or if one or multiple bores go offline at once     Continuous abstraction is best suited to occur in winter and spring, so that water can be stored up for Summer and Autumn (when groundwater levels are anticipated to be at the lowest annually, and when aquifer stresses are considered to be the highest annually)     Winter is the period where an equilibrium could be met between natural drawdown and abstraction, meaning little change in water levels at the Site may result for continuous pumping at that time of the year

#### 7 MONITORING AND REPORTING

Metering of all water abstracted, stored and used at the Site will be completed monthly for the duration of rehabilitation (Table 8). From 1<sup>st</sup> July 2010, the DoW specified that for sites abstracting 50 ML/year or greater must be metered at all abstraction points, in this case WRPB1, WRPB2 and WRPB3. The conditions of the future water license will specify the recording dates for totals, calibration of meters and forwarding dates for information to the DoW. Meters will be installed prior to groundwater abstraction commencing, with date and serial number noted. Meters approved for use in Western Australia are gazetted as the *Rights in Water and Irrigation (Approved Meters) Order* (2009).

Water level monitoring in the groundwater monitoring wells (WRMW1 – WRMW6) will also occur monthly (Table 9). Water quality monitoring will be completed for the duration of abstraction and in accordance with monitoring schedules detailed in Table 10. All monitoring of water quality will be completed by a suitably qualified person, using calibrated equipment, of samples that are representative of the aquifer, water stored or used.

At the conclusion of all required groundwater abstraction, a laboratory sample will be collected from each of the six monitoring wells - for comparison to background water quality readings obtained in the initial GME#1 investigation completed by MDWES.

 Table 8
 Water Use Measurement

Draw point	Meter description	Meter maintenance/calibration schedule	Frequency of recording meter data
WRPB1	ABB (Totaliser, rate) Run hours (headworks)	Bi-annually (At the start of May and November)	Monthly (last day of the month)
WRPB2	ABB (Totaliser, rate) Run hours (headworks)	Bi-annually (At the start of May and November)	Monthly (last day of the month)
WRPB3	ABB (Totaliser, rate) Run hours (headworks	Bi-annually (At the start of May and November)	Monthly (last day of the month)
Storage outlet	ABB (Totaliser, rate)	Bi-annually (At the start of May and November)	Monthly (last day of the month)
Standpipe	ABB (Totaliser, rate)	Bi-annually (At the start of May and November)	Monthly (last day of the month)

Table 9 Water Level Monitoring

Monitoring bore	L	ocation	Frequency
monitoring bore	Easting	Northing	requeries
WRMW1	406504.4	6467036.79	Monthly (around the 15th)
WRMW2	406693.90	6466947.24	Monthly (around the 15th)
WRMW3	406997.15	6466823.95	Monthly (around the 15th)
WRMW4	406617.75	6467311.73	Monthly (around the 15th)
WRMW5	406731.40	6467262.78	Monthly (around the 15th)
WRMW6	406998.45	6467183.20	Monthly (around the 15th)

Table 10 Water Quality Monitoring

Water	Loc	ation	Parameters	Fraguency
quality sampling	Easting	Northing	raiailieteis	Frequency
WRMW1	406504.4	6467036.79	Field: pH, EC, DO, Temperature, Redox, TTA, TALK	Monthly (around the 15th)
WRMW2	406693.90	6466947.24	Laboratory: pH, EC, TDS, TSS,	Monthly (around the 15th)
WRMW3	406997.15	6466823.95	Acidity, Alkalinity, SO <sub>4</sub> <sup>-2</sup> , S <sup>-2</sup> , Cl <sup>-</sup> Dissolved Al, As, Cd, Cr, Fe, Mn, Ni, Se, Zn	Monthly (around the 15th)
WRMW4	406617.75	6467311.73	TP, TN, FRP	Monthly (around the 15th)
WRMW5	406731.40	6467262.78		Monthly (around the 15th)
WRMW6	406998.45	6467183.20		Monthly (around the 15th)
WRPB1	TBA	TBA	Field: pH, EC, DO, Temperature, Redox, TTA, TALK, Standing water level	
WRPB2	TBA	TBA	(from dip tube)	
WRPB3	TBA	TBA	Laboratory: pH, EC, TDS, TSS, Acidity, Alkalinity, SO <sub>4</sub> <sup>2-</sup> , S <sup>2-</sup> , Cl <sup>-</sup> Dissolved Ag, Al, As, Cd, Cr, Fe, Hg, Mo, Ni, Pb, Se, Zn, TP, TN, FRP	Monthly (around the 15th)
Storage Outlet	TBA	TBA	Field: pH, EC, DO, Temperature, Redox, TTA, TALK  Laboratory: pH, EC, TDS, TSS, Acidity, Alkalinity, SO <sub>4</sub> <sup>2-</sup> , S <sup>2-</sup> , Cl <sup>-</sup> Dissolved Ag, Al, As, Cd, Cr, Fe, Hg, Mo, Ni, Pb, Se, Zn, TP, TN, FRP	Monthly (around the 15th)
Standpipe	TBA	ТВА	Field: pH, EC, DO, Temperature, Redox, TTA, TALK  Laboratory: pH, EC, TDS, TSS, Acidity, Alkalinity, SO <sub>4</sub> <sup>2-</sup> , S <sup>2-</sup> , Cl Dissolved Ag, Al, As, Cd, Cr, Fe, Hg, Mo, Ni, Pb, Se, Zn, TP, TN, FRP, Nitrate and Iron	Monthly (around the 15th)

#### 7.1 Environmental Performance Indicators

As the groundwater monitoring indicated in GME#1 that the water beneath the Site is fresh to mildly acidic, groundwater field and laboratory analysis results will be compared against the Freshwater and Marine Ecosystem Trigger Values for the duration of groundwater abstraction.

Although no ASS have been identified at the Site, areas of high risk are present to the west of the Site. Therefore groundwater field and laboratory results will be monitored against the DEC's treatment and ASS disturbance trigger values in the event that pH levels increase in acidity levels and drop outside the range acceptable for Freshwater criteria and Marine Ecosystem values.

Groundwater laboratory analysis results will also be compared against the background results from GME#1 - to monitor potential changes in groundwater quality due to drawdown effects from abstraction. A change in background concentrations of 10% will be used as a trigger value to prompt investigation into the cause of the results.

Table 11 summarises the assessment criteria that will be used as environmental performance indicators.

 Table 11
 Summary of Assessment Criteria

Application	Assessment Criteria	Source
	Freshwater and Marine Ecosystem Trigger Values	DEC (2010) Contaminated Site Management Series - Assessment Levels for Soil, Sediment and Water
Monitoring Wells Field Analysis	DEC Treatment Trigger Values (pH and TTA)	DEC (2011) Treatment and Management of Soils and Water in Acid Sulfate Soil Landscapes. S5.3.6
	Chemical Indicators of ASS Disturbance (pH)	DEC (2011) Treatment and Management of Soils and Water in Acid Sulfate Soil Landscapes. S5.3.1
	Freshwater and Marine Ecosystem Trigger Values	DEC (2010) Contaminated Site Management Series - Assessment Levels for Soil, Sediment and Water
Manifestina Mall	DEC Treatment Trigger Values (pH and TTA)	DEC (2011) Treatment and Management of Soils and Water in Acid Sulfate Soil Landscapes. S5.3.6
Monitoring Well Laboratory Analysis	Chemical Indicators of ASS Disturbance (pH, Dissolved Aluminium, Alkalinity:Sulfate, Sulfate:Chloride)	DEC (2011) Treatment and Management of Soils and Water in Acid Sulfate Soil Landscapes. S5.3.1
	10% Change in Background groundwater quality results	Golders (2011b) and MDWES sampling 5/7/12

#### 8 CONTINGENCY PROGRAM

### 8.1 Groundwater Quality

In the event that groundwater quality of groundwater (either abstracted, stored or used) significantly breaches the environmental performance indicators, the relevant location will be re-sampled. If results indicate a continued breach, abstraction pumping rates and monitoring schedules will be revised.

If water quality results continue to indicate an impact on abstracted, stored or used groundwater – as a result of abstraction, pumping will be reduced (if safe to do so) and alternative management options explored.

#### 8.2 Groundwater Drawdown

In the event that the groundwater levels in monitoring bores (WRMW1 – WRMW6) indicate possible offsite drawdown or potential impact on other users greater than those outcomes determined in the groundwater modelling by (NTEC 2012), the abstraction/water distribution network and bore abstraction rate will be revised.

### 8.3 Destruction of Groundwater Wells or Damage to Infrastructure

Should any groundwater monitoring wells or groundwater abstraction wells be destroyed during the Site works, replacement wells will be installed immediately.

It is recommended that the Site maintains a backlog supply of replacement groundwater pumps in the event that any working ones burn out or go offline. A supply of water meters, additional piping, gensets and headworks is also recommended, given the continuous regime of abstraction. Regular inspections of the water distribution network, storage tanks and standpipe are advised, to ensure no water abstracted is lost or wasted.

## 8.4 Dust Suppression/Soil Compaction or Discharge Effluent Quality

In the event that water quality from the storage tanks significantly exceeds the environmental performance indicators, an investigation will be conducted to determine the cause. The Storage Outlet or Standpipe will then be sampled to confirm compliance.

The following reporting will be undertaken:

- Monthly Monitoring Reports will be submitted by Wasterock.
- At the completion of site works, a Closure Report will be submitted to Wasterock. This report will summarise the management measures undertaken at the Site, the results of all monitoring programs and provide a discussion of the effectiveness of management strategies employed at the Site and of any potential risks to human health or the environment.

### 9 STATUTORY REQUIREMENTS

All construction personnel associated with the project are required to comply with provisions of this OS and the requirements of all applicable environmental legislation, regulations, codes of practice and standards. These include, but are not limited to:

- Rights in Water and Irrigation Act (1914);
- Environmental Protection Act (1986);
- WA DEC Acid Sulfate Soil Guideline Series "Treatment and Management of Soils and Water in Acid Sulfate Soil Landscapes" (2011).

#### 10 COMMUNITY CONCERNS REPORTING

Wasterock or MDWES will manage and document a Community Concerns Reporting procedure. Where concerns are raised by the community or other third parties in relation to the redevelopment, these concerns will be immediately forwarded to the Project Manager and if of an environmental nature, be immediately forwarded to MDWES. The community concerns will be registered and documented, and where possible, an acknowledgement of the receipt of the community concern will be made.

### 11 WATER USE EFFICIENCY

A number of water use efficiency measures are proposed for the abstraction proposal:

- Weekly inspections of abstraction bores WRPB1, WRPB2 and WRPB3;
- Ongoing maintenance of water pipes and monitoring of any leaks between the abstraction points and storage tanks as required;
- Monitoring of valves at the Standpipe and around the Storage Outlet;
- Monthly recording of water use totals, abstraction totals/rates and portions stored and used – to track the water balance across the water distribution network and identify any loss of abstracted water - to the environment.

#### 12 SUMMARY LIST OF COMMITMENTS

Wasterock (the proposed licensee) will comply with this OS as a condition that is to be specified in Section 5C Water Resource Licence.

The licensee will undertake and report to the DoW, concerning the monitoring program:

### **Summary Monitoring Program**

Parameter measured	Sampling site	Frequency	Time
Water use measurement	WRPB1, WRPB2, WRPB3, Standpipe outlet, Discharge outlet (if required)	Monthly	By 3pm each day (or at the beginning and end of any water discharge event)
Water level monitoring	WRMW1, WRMW2, WRMW3, WRMW4, WRMW5 and WRMW6	Monthly	Monthly (around the 15th)
Water quality monitoring	WRMW1, WRMW2, WRMW3, WRMW4, WRMW5 and WRMW6, Storage Outlet and Standpipe	Monthly	Monthly (around the 15th)

Any breach in commitments of the OS, or implementation of any contingency response, must be reported to the DoW within fourteen (14) days of the breach becoming aware or contingency response being made.

An annual water use (meter totals) report along with a compliance (monitoring/water level) report will be submitted to the DoW within seven (7) days and twenty eight (28) days (respectively) of the end to the annual water year. Strategic Policy 5.03 and Operating policy 5.1.2 detail the required formats for compilation of these reports.

The OS is to be re-submitted to the DoW for review three (3) months prior to the expiry date.

#### REFERENCES

ANZECC (2000) Australian and New Zealand Guidelines for Fresh and Marine Water Quality. Australian and New Zealand Environment and Conservation Council (ANZECC) and Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ).

Davidson, W.A. (1995) Hydrogeology and Groundwater Resources of the Perth Region Western Australia. Geological Survey of Western Australia. Department of Minerals and Energy.

Davidson, WA and X Yu (2006). *Perth regional aquifer modelling system (PRAMS) model development: Hydrogeology and groundwater modelling,* Western Australian Department of Water, Hydrogeological series HG20.

DEC (2010) Contaminated Site Management Series - Assessment Levels for Soil, Sediment and Water. Contaminated Sites Branch, Department of Environment and Conservation.

DEC (2011) Treatment and Management of Soils and Water in Acid Sulfate Soil Landscapes. Contaminated Sites Branch, Department of Environment and Conservation.

DoE (2004) *Perth Groundwater Atlas (Online)*, Western Australian Department of Environment, Available at: http://www.water.wa.gov.au/idelve/gwa/index.jsp

DoW (2009) Operational policy 5.12: *Hydrogeological reporting associated with a groundwater well licence,* Western Australian Department of Environment

DoW (2009) Strategic policy 5.03 – Metering the taking of water, Western Australian Department of Environment

Environmental Protection Act 1986

Government of Western Australia (2000). Bush Forever Volume 2: Directory of Bush Forever Sites, Department of Environmental Protection, accessed 20th September 2012.

Landgate (2012) *WA Atlas (Online),* Western Australian Land Information Authority. Available at: <a href="http://www2.landgate.wa.gov.au/bmvf/app/waatlas/">http://www2.landgate.wa.gov.au/bmvf/app/waatlas/</a>

MDW Environmental Services (2012). *Groundwater Investigation Report, Lot 20 Adelaide Street Hazelmere*, prepared for Wasterock Pty. Ltd.

NTEC Environmental Technology (2012) *Groundwater modelling for the Wasterock Hazelland Landfill site in Hazelmere, Western Australia* 

Parsons and Brinkerhoff (2006). Site Investigation, Former Adelaide Street landfill Lot 20 Adelaide Street, Hazelmere, Western Australia

Rights in Water and Irrigation Act 1914

SLIP (2012). Shared Land Information Platform, Landgate on behalf of the State of Western Australia, https://www2.landgate.wa.gov.au/, accessed 18th and 28th September, 2012.

Water Register (2012). Water Register, Western Australian Department of water online resource at

http://www.water.wa.gov.au/Tools/Maps+and+atlases/Water+Register/default.aspx, accessed 5 September 2012.

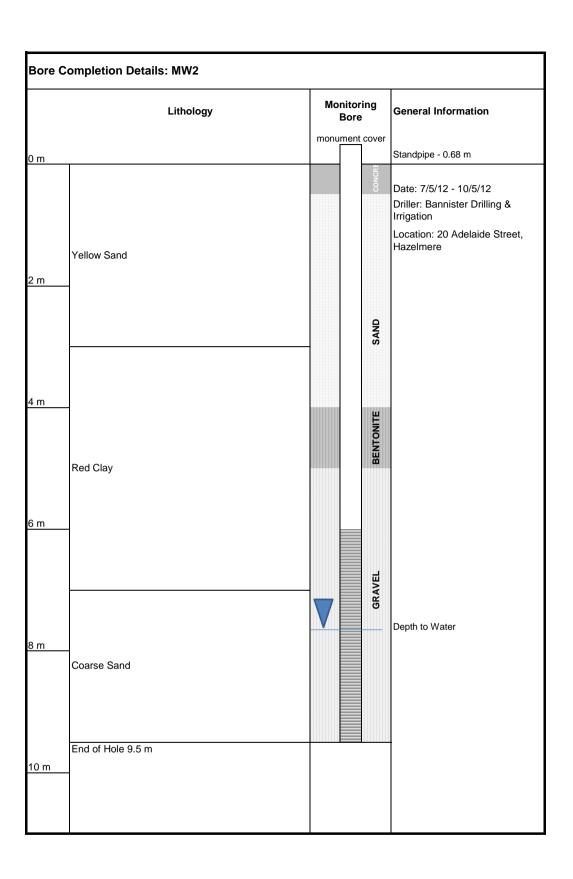
Water Corp. (2007) Industrial Waste Information Brochure – Acceptance Criteria for Industrial Waste – PUB 06. Water Corporation.

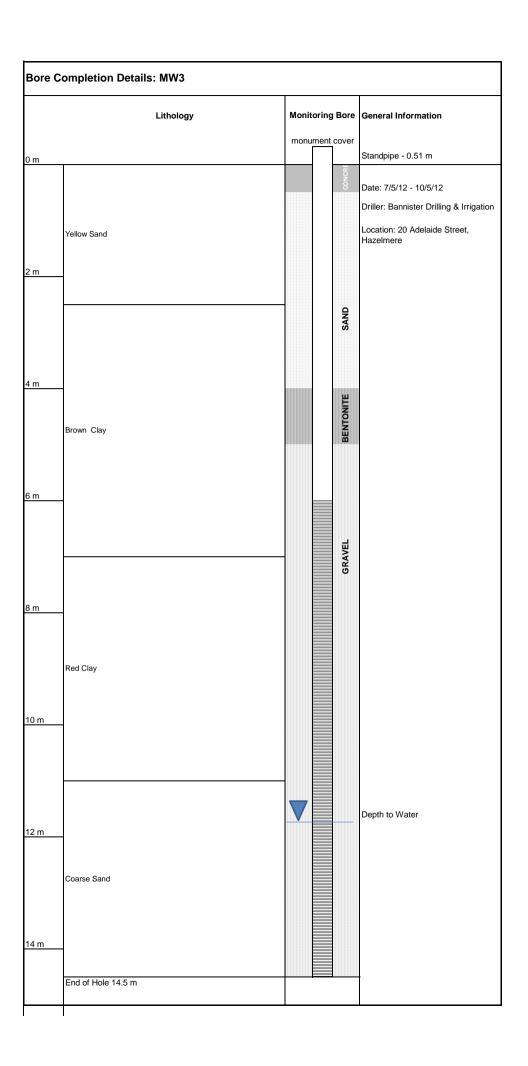
Xu, C., M Canci, M Martin, M Donnelly, and R Stokes (2008). *Perth regional aquifer modelling system (PRAMS) model development: Application of the vertical flux model,* Department of Water, Western Australia, Hydrogeological record series HG27

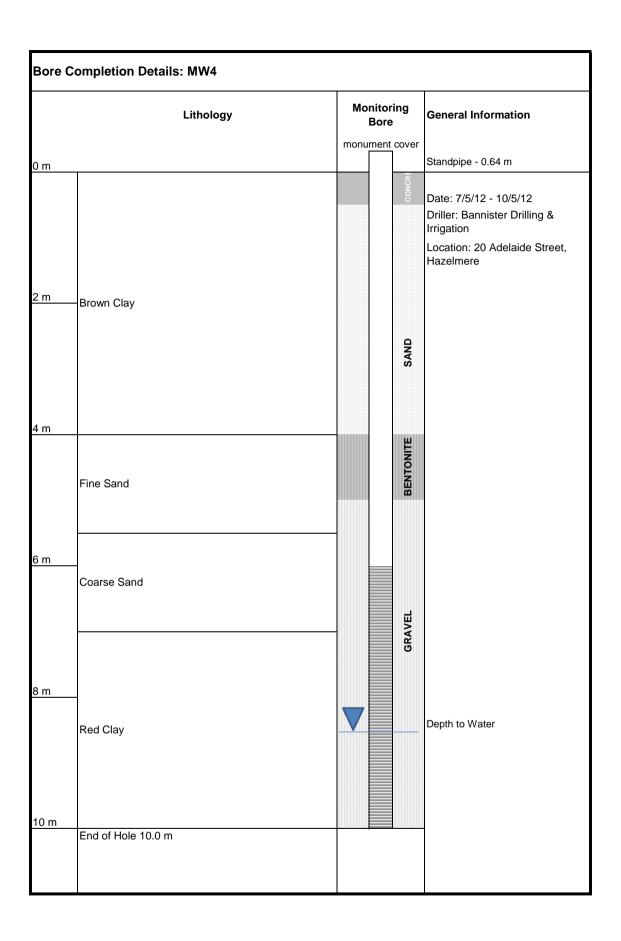


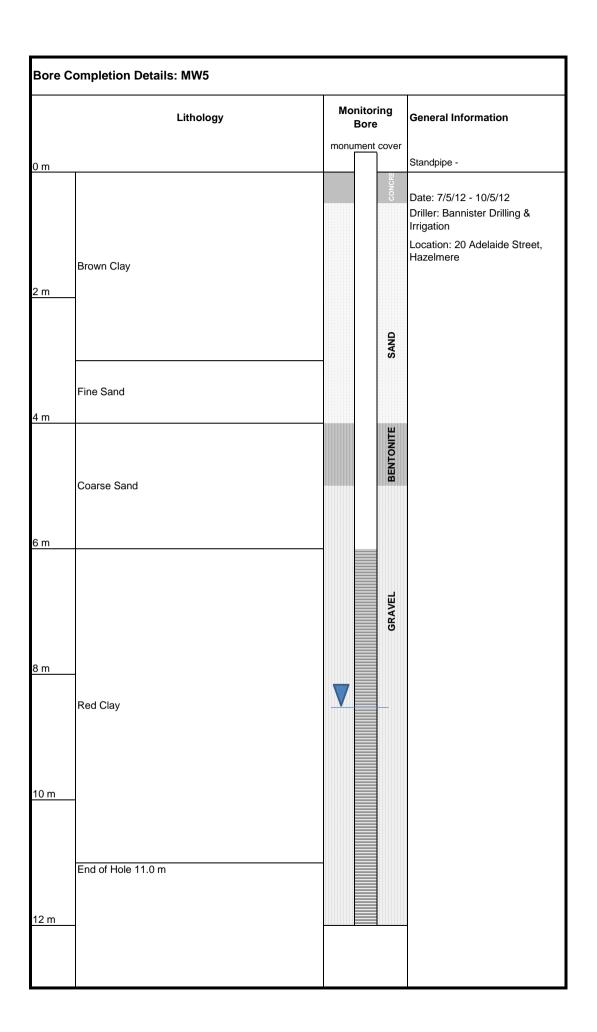
# Appendix A – Soil Bore Logs

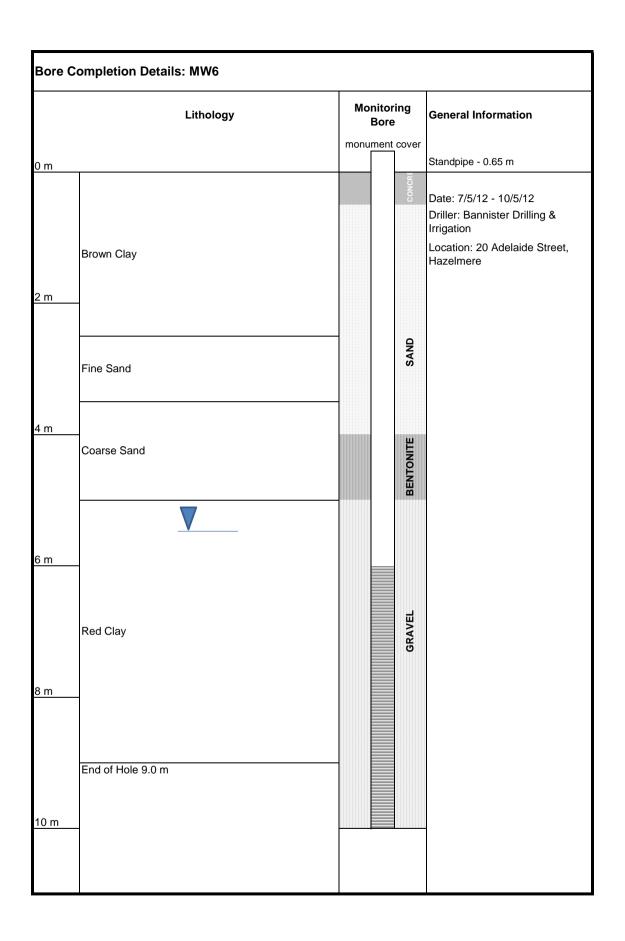
Bore C	ompletion Details: MW1			
	Lithology	Monitorin	g Bore	General Information
0 m		monumer		Standpipe - 0.45m
1 m	-Yellow Sand		CONCRE	Date: 7/5/12 - 10/5/12  Driller: Bannister Drilling & Irrigation  Location: 20 Adelaide Street,  Hazelmere
			SAND	
2 m			BENTONITE	
3 m	-Yellow Sand/ Brown Clay		GRAVEL	Depth to Water
<u>4 m</u>	-Red Clay			
<u>6 m</u>	End of Hole 6.0 m			











0892564460

# BANNISTER DRILLING & IRRIGATION

ABN 59 776 488 257

## LITHOLOGY & CONSTRUCTION REPORT

DRILLER PHULIP DRILLER LICENCE NUMBER: 183
JOB LOCATION: Adelaide St. Hazelmere
DATE COMMENCED: 7.55-12 DATE COMPLETED: 10.5-12
DRILLING METHOD: Mud. AIR DEVELOPMENT: Yes (this) GRAVEL PACK: Yes
STRATA DESCRIPTION
FROM
Bore no 1
Omts - 2 mts Yellow Sand
2mts - 4 mts Yellow Sand/Brown Clay
Limts - 6 mts Red Clay
Bore no. 2
Omts - 3mts Yellow Sand
3mts-7mts Red Clay
7 mts - 9.5 mts Coarse Sand
The same of the sold for the so
Bore no. 3
Omts - 2.5 mts Yellow Sand
2.5mla-7mta Brown Clay
7mts - 11mts Red Clay
Umts - 14:5mts Coarse Sand

18 DORNOCH WAY CANNINGVALE 6155 PH/FAX 92564460 MOB 0410 422 006

0892564460

# BANNISTER DRILLING & IRRIGATION

ABN 59 776 488 257

## LITHOLOGY & CONSTRUCTION REPORT

DRILLER: Thulup DRILLER LICEN	CE NUMBER:
JOB LOCATION Adelaide St. Ho	relmere:
DATE COMMENCED: 7-5-12. DATE COM	MPLETED: (Q:5-)2
DRILLING METHOD: MUCL AIR DEVELOI	PMENT YES (IHC) GRAVEL PACK: YES
STRATA DESC	RIPTION
FROM	·
Bore no. 4	
Omts - H mts	Brown Clay
Hmts - 55mts	fine Sand
	Coarse Sand
	Red Clay
Bore no 5	
Omts - 3mts	Brown Clay
	fine Sand
Umts - 6mts	Coarse Sand
	Red Clay
	· J
Bore no. 6	(1) av,
Omts - 2.5mts	Brown Clay
2:5mts-3:5mts	fine Sand
	Coarse Sand
	Red Clay

18 DORNOCH WAY CANNINGVALE 6155 PH/FAX 92564460 MOB 0410 422 006



Appendix B – DoW Online Search for Groundwater Licenses

Lat 9003 On Plan 56679 Valure/Folio 2683/292 Lat 9003 South Guidelord	POE, SOUTH GUILDFORD	Domain Project Development PTV LTD; Guifford Grammer School Foundation Inc.	Perth Superfictal Swan	Shire of Swan South	35250 Penth	GWL 000181669 (001)
Lot 22 On Disgram 27388 Volume/Foilo 1367/97 Lot 22 Bruce fid Moddy Vale Lot 50 On Bisgram 3480 - Volume/Foilo 3167/98 - Lot 51 Salamoreck Board High Wyconiba Lot 13 On Bisgram 3480 - Volume/Foilo 3167/892 - Lot 51 Salamoreck Board High Wyconiba	24 TCRIDACE PD. GAIRDACARD	witchen, waweil John Hillshev Heishe Wilber PRV I to Geldfürd Gunnar School hie	Perth - Superdicial Swan Perth - Lepterville	Site of Kelamunds Perth South Confined	19900 Perth	(100) 16TT91000 W/9 (100) 16TT91000 W/9
Lai IV. dii Fina 1522. Yokame[Fola [107]]-ki I. Lee S. Sar-Pope, cami: Mahale Lai 40 On Fina 1533 Vokame[Fola 1513/414 - Lee S. Mures Pi Mahale Lai 1014 On Fina 46737 - Volume[Fola 2719/100 - Lee Willia Andlend	49, MINOS PL, MIDVALE	Shire of Mandaring Altitlesd Redevelopment Authority	Perth - Leeden-ille.	Perth South Confined Perth South Confined	100500 Perth 45400 Pwrth	GML 000158261 (002)
(Coan Reserve 36:57 - Lei 9444 Sean (El-Hy) Wycenbe- Baapeige Birk Luomi meetre peau Luu massi. Aesteu my jurisiesen saratud rup meetre Erman Reserve 34:610 - Lei 10420 Abelia Wy Ferren(Eul - Abelia War Reserve	28. SWANRD, HIGH WYCONIBE 1DA'IO, ANTRIA WY, FORRECTFITLD IC STANLINGS CHAS A DIVALE	Since of Maintaines	Perth - Superitrial Swan Perth - Leedenille.	Shine of Kolamanda Porth South Confined	1005to Perth	GWL 000158261 (002)
10131 On Plan 89415 - Volume/Polio Ir3155/746 - I.et 93 Agradio CH Hyb Wycombe - Hygh Wycombe 104 1155/- Un Pian 14315 - Volume/Polio L2150/JAA - Let 1155/C UTomnill Ve Hyb Wycombe - Pinettee Reserva 104 136 NF Nar 4666 - Vatame/Folio 155/JAG/55 Let 21 Septem Pol III (b) Vycombe - Baugetree Pinettee Reserva	33, ACRAUI IN CT, HIGH WYCOMRE 11056, CYCENNICU WY, HIGH WYCOMRE	Shin of Edwards Shin of Edwards	Perth Superficial Suam Perth Superficial Suam	Shire of Kalamanda	893275 Perth	GWL 000158077 (005)
Let 11504 Die Man 191240 - volume/felio L/1310/231 - Let 11506 Wertel Av High Wycompe - Olie Wertel Beseive Let 11504 Die Man 191240 - volume/felio L/1310/231 - Let 11904 Wycombe Rei High Wycompe - Scatt Reverve	11891, WYCTIMBE RD, HIGH NATCHMBE	Shire of Externancia	Perth - Superdicial Savan	Shine of Kolamanda	ROTZY: Facth	מאת מממזיושדד (מאין
Lown reserve 2112 - LOS 1924 Retherwood fül rijb Wycombe - Machense Palik Chwai Reserve 2115 - Los 1924 Retherwood fül rijb Wycombe - Machense Palik Chwai Reserve 21157 i old 1927 Basiloskieg Wyl lijb Wycombe - Machense Parik Lown Reserve 21157 i old 1927 Basiloskieg Wyl lijb Wycombe - Braguest Reserve Low 1924 Christopher 1927 Basiloskieg Wyl lijb Wycombe - Braguest Reserve Low 1924 Christopher 1927 Basiloskieg Wyl lijb Wycombe - Braguest Reserve Low 1924 Christopher 1927 Basiloskieg Wyl lijb Wycombe - Braguest Reserve Low 1924 Christopher 192	RZPK, NETHERWOOD RD, HIGH WYCOMBE 8777, DAKUDAIONU WY, HIGH WYCOMBE 31996, WORKELL AV, HIGH WYCOMBE	Shin of Calamunds Shico of Calamunds She of Calamunds	Perth - Superficial Savan Perth - Superficial Swan Perth - Superficial Swan	Stire of Kolamunda Stire of Kolamunda Stire of Kolamunda	873275 Fenth 873275 Fenth 393275 Fenth	GML 00035077 (005) GML 00015077 (005)
Cream Deventors (2003). Lead (1925) Sparson had promotified Chaptered (but in Professional Control Peterson (2013). Lead (1925) Sparson had control Peterson (2013). Lead (1924) Sparson had Chaptered (2013). Lead (1924) Sparson had Chaptered (2013) Lead (1924). Lead (1924) Sparson had Chaptered (2013) Lead (1924). Lead (1924) Sparson had Chaptered (2013) Lead (1924). Lead (1924) Sparson had Chaptered (2013) Lead (1924) Sparson had Chaptered (2013) Lead (1924). Lead (1924) Lead (1924	10194, LINWIGH AM, FORTIESTFILLD 11104, KODKARURRA CR, HIGH WYCOMER	Shim of Kulamundu Shim of Kulamundu	Porth - Superficial Swan Porth - Superficial Swan	Shire of Kalamunda Shire of Kalamunda	893271 Penth 893275 Penth	GWL 000198077 (005)
A/Felin L	1540, FRUITTIEF CR, FORSESTEED 1540, WARDA CR, FURSESTEED 601, HAWKTVALE RD, HIGH WYGDARSE	Site of Editmunds Site of Editmunds	Perth Superficial Swan Perth Superficial Swan	Shire of Kalamunda	893273 Penth 893273 Penth	GWL 000158077 (005)
un 1990 en Frantassa (* veneraz reale 1912/1918 - Lat 1994 keekska Di High Visconibe - Intarianila (* Los 1907) en Frantassa (* 1994 keeks 1914 keeks	11072, HEVBURN RO, HIGH WYCOMBE 570, HEVBURN RD, HIGH WYCOMBE	Shine of Editoriansis Shine of Editoriansis	Parth - Superficial Swan Perth - Superficial Swan Perth - Superficial Swan	Shire of Kelamunda Shire of Kelamunda	891272 Parth	GML 000154077 (005) GML 000154077 (001)
95	13211, TREE FERV GRN, MAIDA VALE 79-55, WITTENGOM RD, HIGH WYCENER 15-456, WONDEN DR. HIGH WYCENER 15-166, WONDEN DR. HIGH WYC	Shre of Estamards Shre of Estamards Shre of Estamards	Peth - Superficial Swan Peth - Superficial Swan	Shire of Kolamanda Shire of Kolamanda	893275 Perth	GWL 000158077 (205) GWL 000158077 (205)
5555	13987, FHUIT THILL CK, FORKLSTFILLD 11887, WITTINGOM RD, HICH WYCOLYSL	Shire of Eulemanda Shire of Eulemanda	Perth - Superficial Swan Perth - Superficial Swan	Shire of Kalamunda Shire of Kalamunda	893275 Perih 891275 Perih	6WL 000158077 (005) GWL 0100158077 (005)
Lesson Inserts (1977) - List Hall Ask Styling High Valenchie - Hg) Mykoniki Hany Chanh Repris (1977) - List 1917) - Styling Hall Styling Hall Vale - Sad Shak Chale List 1976 - On the military are resulting have 1978 by a real about one of military military statements in List 1976 - On the military inclination control to the control of the military statements in the control of th	1972, SADDERLACK CH, MADA VALE	Shre of Edentarida Shre of Edentarida	Perth - Superficial Swam Perth - Superficial Swam	Shire of Kulumunda Shire of Kolemanda	893275 Perih	GWL dbd128b77 (co2)
un 133 On Diagram 68478 - Vebinnelfübe 1712/10 - Lee 123 Greet Criterii Hey Melscile and Road verges on Great Griterii Hevi Lai 11531 Un Man 177852 - Vulumaffaliu (1312)/450 - Lui 11533 Malamunia (ili Madia Vale - Madia Vale Reserve/Toren Cub	11503, MAIGHANARD, HIGH WATCHARD	Since of Euleriands	Porth Superficial Swan Porth - Superficial Swan	Street Kalemands	893275 Perti	GWL (00158077 (005)
to 7 on Fra 11544 - Yosher/Food 2014/old- Let 7 Hastieres To 1200 On May John Velour/Food 2711/11 1 e 7000 Feerstedd Toi 1501 On Dogram 4819 - Yosher/Food 1375/236 - Let 191 Great Catem Hwy Guid-lood - Godding Gainmar School	191, URGAT CASTERN HAWY, QUILDFURD	Shire of Estamunds Guidfand Grammars School Inc Shire of Kindonine	Perth Leederville Perth Leederville Perth - Superlicial Swan	Perth South Confined Perth South Confined Shire of Mundaring	10300 Porth 103075 Porth 15000 Perth	GWL 000156453 (001) GWL 000156772 (907) GWL 000157266 (002)
on a season main provest, one assessment and release to Resease Manata Prince/Science (a) 3 On Beginn 1950-50 - Volume/Beds 2012/14/2- (a, 5) a strain 64 High Wycombe (a) 1 On Phon 1957-4 - Volume/Feith 15/9/25/3- (a, 5) software 64 Provinciated	3, SALLANA ND, HIGH WYCONNIE	Noske, Jeffrey John Der Harts, David; Der Hauts, Chysikies Depisten, Anthony	Perth - Superdicial Swan Perth - Superdicial Swan Perth - Superdicial Swan	Shire of Kelamanda Shire of Kelamanda Shire of Swan South	7623 Penth 2500 Penth 19000 Penth	GML 000155894 (905)
Crown Reserve 12845; Lot 9109 Berkshire Boad Forrestriets - Darling Bayer Sparts College Crown February 2061; Lot 91018 is 10079 Star-con Avenue Forrestled - Clawsor Burk Brimary School Lot 1008 to 16th 16th 17th 17th 17th 17th 17th 17th 17th 17	910), NCIUKHINE RD., TORRESTRIED 9101, NCIUKHINE RD., TORRESTRIED 11639, WELLATON ST. MIDVALE	Department of Education Department of Education Ucpartment of Education	Perth - Superition Swan Perth - Experition Swan Perth Leederville	Perth South Currined	162750 Pedh 176875 Pedh	GWI 000155429 (204)
PROCESS A AUGUST PROFESSARIA, CERTIFICATE OF THE VICTURE UDILITY FIGURE TA. RESERVE TYPED LINEAR ROAD FORESTELLY COWN RESERVE 15859 - LOT SSSS Externancia, Rid Maldat Volle - Nation Vale Primary Cask Color (Account Reserve 1585) - LOT SSSS Externancia Rid Maldat Volle - Nation Vale Primary Cask Color (Account Reserve 1585) - LOT SSSS External Reserve (Account Reserve 1585). Land 15250 (Reservation Mad Halph Workstein Reserve) - Lot State Volley (Account Reserve) - Lot State Volley (Accou	2558, KALANDOR RO, MICH VOYCOMBE	Department of Education Department of Education	Perth - Superficial Swan Perth - Superficial Swan	Shire of Kalamunda Shire of Kalamunda	162750 Penh 162750 Penh	GWL 000155429 (304)
Loi 4 on Diagram 69500; Certilitate ol Tille 1722, Folio 473 - Lo: 4 Brand Bood High Wyccamle Kaare Levalion 32 or That Ld 2 on Blagram 2670); Enrillinate ol Tille Valanne 1667 Folio 161 - Loi 32 Kolumanch Road Guidrien	4, DRAND RD, HIGH WYCOMSE  22, Kalwinords Road, Guildfrad  11261. 11 NIAMA SE F FRANCISTET II	Patterion, N.J. Reving and Wagering Western Australia Wootern Australian Fire Shippoor board	Perth - Superficial Swan Perth - Superficial Swan Perth - Superficial Swan	Shire of Kelamanda	acco Perth	GWL 000155224 (202)
Los 3 on Pean 1995; Certificate of Hist Volume 1913? Falsa 2011 Los 5 Hear Bank Dye Soart staileded Los 8 on Diagram LoTSGI Certificate of Title Volume 1865 Falsa 502 Los 8 Druce Road Forrestrield Los 3 on Péan 1916; Certificate of Hist Volume 1920 Falsa 1921 Los 102 Nother Brand Falsa Volume had Los 30 on Péan 1916; Certificate of Hist Volume 1920 Falsa 1921 Los 20 Nother Brand Falsa Volume had	TO THE THE TOTAL STATE OF THE TO	Remnest, Stephen Awary, Vernium Bruce	Perth - Superficial Swan Perth - Superficial Swan	Shire of Kelamanda Shire of Kalamanda	//10 Parth	GWL 000124218 (001)
151	106, SACHER DR, COOSEBERRY HILL 11, SHUTDIAN AD, FORESTFIELD 5, BUTE DRAWER DAY SCHILL CHILLYCOM 5	Holes, O.D. Hompson, Villiam Suick, Rosanoc	Petth - Superficial Swan Petth - Superficial Swan Petth - Leedervills	Shire of Kalamanda Porth South Confined	NZIO Penth	GWL 000154114 (001)
To the	22, MANTIN RD, FORBESTRIFT D 91. STATMART RD, FORBESTRIFT D	Forrestied Christian School Addition Shalfik Abrusul Ustra Co.	Perth - Superficial Swan Perth - Superficial Swan Perth - Superficial Swan	Shire of Kelamanda Shire of Kelamanda Shire of Kelamanda	10000 Perth	GML 000154091 (001) GML 000154091 (001)
US 15 on Plan 4556: Certificate of Title Volume 2002 Folio 816 - Loz 15 Stirling Crescent Hazelmere Lod 13 on Plan 4556: Certificate of Title Volume 2013 Folio 70n - Lot 30 Made Volume 18214 Myccently Lod 13 on Distrem 18216: Certificate of Title Volume 2013 Folio 70n - Lot 30 Made Volume 18214 Myccently Lod 13 on Distrem 1938: Certificate of Title Volume 700 Folio for 18 on	25, STRILING CR, HOZELNERGE  10, MAIDA VALE RD, HIGH WYCOMBE  11, KALAMANUDA RD, HIGH WYCOMBE	VALUE, 2 oney Accessed? 201 CGL, LYNRY LIPE LIPEURY TIME PLY LIC TTN Pty LIC	Perth Superficial Swan	Shire of Kelamanda Shire of Kelamanda	S400 Perth	GWL 0003517W (003)
Sunda Sunda	E), NRAFRD, HIGH WYCOMIN 134. GREAT NOINTHERN HWY, MIDDLE SWAN	Mirs, Peter (edin Actalic Investments Pty Ltd	Perth - Superlitial Swam Perth Leederville.	Perth South Curfland	12000 Perth	GWL 000153624 (001)
LOI 80 On Plan 4539 - Volame/folio 1374/513 - Lot 80 Ballimead Rd Hazelmere Loi 1.0 New 7320; Carillicate of Life Volame 1430 File Affil. Lot 3 Refs Hill food Hade Vale Loi 1.0 for Dilarro MSTT Cerember of The Volume 7430 File Rd. Lot 3 Refs Hill food Hade Vale Loi 1.0 for Dilarro MSTT Cerember of The Volume 7430 File Rd.	36, DISHNEAD RD, HAZELWERE 3, HIDGS HILL RD, MADDA VALL 105, ONSCRIB CT, MAIDA VALL	out- (Auszala) Py (to Carrell, RV, L, J. Perges, D'uce	Porth - Superficial Swam Porth - Superficial Swam	Shire of Kalamanda	21450 Penth 7250 Penth	GWL 000151224 (001)
to 120 on Plan 1358s; Certificate of Tink Volume 1597 faits 415 - Lot 26 trever flood forrestillab	26, BREWERRD, MAIDA VALE	Lush Leonard James	Perth - Super	Shire of Kalamunda	4400 Perth	GML 000152517 (002)
161 91 On Diggam 4819 - Volume/Foin 1315/236 - Let 191 Great Fastern Hay Guidford - Guidford Grammar School Lot 41.5 on Han Maltic Certificate of Title Vulnere 3789 Falu 32 - Let 415 Nover flood High Wycondae Lot 42.7 on Han Maltic Certificate of Title Vulnere 3789 Falu 32 - Let 415 Nover flood High Wycondae	197, URFAT FASTERN HAVY, GUI DIQUID 115, PAOVER ID, HIGH WYCOLBE 147, TALBOT ID, HATTINTEE	Company of earning accepting Falleric, I.R. A. D) Cluseppe, Antonio Guseppe	Perth - Superficial Sanin Perth - Superficial Sanin	Shire of Kalamanda Shire of Swan South	9000 Perth 27750 Perth	GMT 000123020 (501)
con de origina programmate de mercenta com que para con acto percepte encode programa Los 4 en Man 1874, Contilicada el Titte Ventura Esta Fala 152 e 44 a Liliana Robal Formatilholi Los 1 en Diagram 17430, Contilicato el Titte Venturas 1324 (ello 130 - Los 1 Marce Robal High Wycombo	4, SULTA VA HD, FOHRESTFIELD  1. WILMER RD, HIGH WYCOMOE	Distan, Michael, Distan, Liftura Fagnasi, Artisol Disray)	Perth - Superficial Swan Perth - Superficial Swan Perth - Superficial Swan	Shire of Kalamanda Shire of Kalamanda Shire of Seem South	23120 Penh	GWL 000152715 (001) GWL 000152215 (001)
10t 90 on Plan 1323; Certificate of Title Volume 2708 fisio 540 - For 40 M/hor Road Hyb Wysom be Luf 5 ut Diagram 2053(); Certificate of Title Vulning 1214 Fullu 316 - Los 5 un Novith Boad Forrestfield Luf 5 ut Diagram 2053(); Certificate of Title Vulning 1214 Fullu 316 - Los 5 un Novith Boad Forrestfield Luf 5 ut Diagram 2053(); Certificate of Title Vulning 1214 Fullu 316 - Los 5 un Novith Boad Forrestfield	52, BUNGHUR RD, HORN KYYCOMRE S. BUNGHUR RD, FORRESTTIELD	URatus, Justinia URatus, Justinia Forrestiled 8'the fedowship	Perth Superficial Swan Perth - Superficial Swan	Shire of Kalamunda Shire of Kalamunda	Jicou Perth Jicou Perth	GWL 000152102 (001)
Let 3 Oin Plan 12974 - Volumin/Neis 1234/2541. Let 3 Salinien de Trensmalfield Let 89 on Plan 124374 - Volumin/Neis 1234/2541 and Salinien de Trensmalfield Let 89 on Plan 124374 - Certificate of Title Volume 1581 folio 996 - Let 89 on Stewart Road High Wycomice	I, SULLAVA ID, FORKLSTRELD  BD. STEWART RD, HIGH MYCOMDE	Hunn B. Carter, Hickmed B. Lynetile Retherner, Herber Moel Orrold Iven Tether Moel	Perth - Superficial Swan Perth - Superficial Swan Perth - Superficial Swan	Shire of Kalamanda Shire of Kalamanda	JS00 Perth	GWI 000157071 (001)
Put ken of Swan Lucation 2009 and being Lat 72 on Fan 2359 and being the whole of the land comprised in Confliction of Tible V	72, MULDERBY CT, MAIDA VALE 508, NIRI MBA CL, SOUTH GUILDFORD	Rigan, Drett Namen Watson, Debble	Perth - Superficial Swan Perth - Superficial Swan	Shire of Swan South	2000 Perth	GMT 000151786 (001)
Partian of each of Swart Loca Acra. 22 and 23 and lefts; Lot 20 on Diagram 6,2224 and being the whole of the land composited in Christian of Swart Investment States.	1. BENSHING RO, FORRESTRIELD	Workford Equipment Ply Ltd  Worksmann, P.G. fr. N.C.	Perth - Superficial Savan	Shire of Kalenanda	7930 Peth	GMT 000121/24 (001)
cus a en analysm ready. Certinique en tien vinanne 21.50 texte est, - Lex 2 Ayem II y Narre Hajelineven. 148, ALAKONDIRCC I, MAIDA VALC. Riverve No. 24156 of Sean Location 1902 - Loc 2902 Reverve 14156 texte Place. Lebonile.	140, ALMONDTREE L MAIDA VALE 13293, . MRDVALE	Powet, finden sancs Shire of Mundaring	Perth Superlicial Swan Perth - Superlicial Swan	Shire of Mundaring	4000 Perth	GWL 00031679 (902)
Lot Zz Go Plan 1525 - Volume/holiu 212./ htts - Lot 25 Stiffing Cr Huidmann L. MILITARY RD, MIDLAND Lot Thomas States Coulding of Table 155 Stiffing Cr Huidmann	L. ASHINGHAN DO, MARIJAND  2. ASHINA HILY DI, MATELIAND  2. ASHINA HILY DI, MATELIAND	Austral Britan (WA) Ply Etd  Byrray, William Iohn	Perth - Superficial Swan Perth - Superficial Swan	Shire of Swan South Shire of Swan South	15600 Perth	GWL 000JBJE70 (002)
Let 115 On Plan 4533 - Volume/Folio 1734/F372 - Let 214 Late Blazd Blazdmere Let 114 On Plan 4533 - Volume/Folio 1734/F372 - Let 214 Late Blazd Blazdmere	115, I AUS RD, HAVE MERF 114, LAKES RD, HAZELINERE	Derby Industries Pry Ltd Derby Industries Pry Ltd	Porth - Coderville.  Porth - Coderville.  Porth - Coderville.	Perth South Confined Perth South Confined Shire of Seven South	56000 Perth 56000 Perth 26000 Perth	GWL 000101500 (007) GWL 000101500 (007)
Location 7624 Kalaminian Road Matasia Yale Location 7624 Kalaminian Road Matasia Locatio	21, STIRLING ON, HAZELLERIE  2011, YELVERTON OR, HADLAND	Swist, Randai Lloyd  Mariaed Radiovskipmort Authority	Porth - Superficial Spean  Porth - Londonsille.	Shirm of Sepan South Porth South Confined	15550 Perch 17250 Perch	GWT DEDGESORY (DOS)
Let 2 On Pish 16340 - Volume/Leila 1932/2 - Let 2 Munday Rd High Wycomiae Lecalitan 7652 Kalamunda Rasul Makka Valk	2, MUNEAY RI, HIGH WYCOMRE Location 7522 Kolmeinia Road Maida Vale	Mattrew Oldrey Catholic Prinary School; The Roman Catholic Archibidop of Penth Hishiran Public Golf Course Pry Ltd Hishiran Public Golf Course Pry Ltd	Perth - Superficial Swan Perth - Superficial Swan	Shire of Kalamunda	196250 Perth	GWL 000074457 (003)
Lot 22: On Diagram 71.14 - Volumer/Felo 1791/535 - Lot 22: Diardst it 6! High Wycombe Lot 22: On Diagram 71.151 - Volumer/Felio 1.1791/5755 - Lot 23: Diardst it 6! High Wycombe Lot 25.1 On Pish 4684 - Volumer/Felo 363/181a - Lot 25.2 Diardst it 6! High Wycombe	23. DUNDAS RD, HIGH WYCOMBE 23. DUNDAS RD, HIGH WYCOMBE	Bacchien, David Bacchien, David	Perth - Superficial Swan Perth - Superficial Swan	Shire of Kalamanda Shire of Kalamanda	MOSO Parth	GWL 000013107 (003)
Let SOL Do Hea NEW - Volume Freder 2009/138 - Let SOL Guidford  LUSSE, DOUGLAHVILLOA AV, FORNICSFRILD		The Renon Cerbale Archiebap of Pweth Department of Agriculture and Food Barchien David	Perth - Superficial Swan Perth - Superficial Swan Perth - Superficial Swan	Shire of Sean South Shire of Kelamunda Shire of Kelamunda	35%0 Perth 35%0 Perth	GWL 000063156 (001) GWL 000063156 (001)
LOT 2 ON ENABLEM 25791, VOURMET FOLKS 1973 - LOT I KALEMUNING HIS VERIKAN ZIE L. VALE RD, HAZELMERE Lot 79 on D'agrem 1577, Cestificate of Title Volume 1706 Folks 327 - Lot 79 Mutiel Stores V vegis	L. VALE Rej. HAZZLAGER YALE ZPS, MAJNIEL ST. MIDDLE SWAM	Plancer Road Services Pty Ltd La Salle College	Perth - Superficial Swan Perth - Superficial Swan	Shire of Swan South Shire of Swan South	20625 Perth	GWL 000062528 (903)
67, TOOTHAY RD, MIDDLE SWAM Left 1 On Disprain 19991 - Volumy/India 67/7x - Left 1 Externionis Rd Marks Vale		Sweeth Day Adventist Church (Western Australian Canternors) Uralled Sweeth Day Adventist Church (Western Australian Conternors) Uralled	Porth - Superficial Swan Porth - Superficial Swan	Shire of Kolamanda Shire of Kolamanda	46150 Perth	GWL 0000160942 (003)
lot 113 on Disgram 85719, Certificate of Title Volume 1993 falso 316 - Let 113 Sultare Road Forestfield Lot 3999 Sovemburi Road High Wystersba		Smith, S. K. Smith, B Smanniar Plant harm Pty Ltd St Betady, School	Perth - Superficial Swan Perth - Superficial Swan Perth - Superficial Swan	Shire of Swan South	2/000 Perth	GWL 000059059 (301)
Lot St Updy Street, Mediand. Lot No bearboard Road Hamboure Lot 9 On Pir. 2227 Volume/Felio 1009/229. Lot 9 James 55 Guiddond		DRC (Australia) Pry Ltri Swan Dowling & Recreation Club line)	Porth - Superficial Swan Porth - Superficial Swan	Shire of Swan South	221/0 Pwrth 4800 Perth	GML 000053269 (002)
ow Town Page in 2004; Commune of the Volume 12/0 read (b); (o) I don't beginn MIJDE Commune of The Volume 11(6) Left 10 On Degan Bodot "- Volume[16: o) 91/1/061 - Left 10 Hamenfey Rd Cavenham Left 2016 & 10 Hamenfey Road, Cavenham.		Rond, Robert James Build, Robert James Court 7-16	Perth - Marrabooka Perth - Marrabooka Perth - Superdictal Supe	South Swan Shire of Swan South	35550 Swan 35550 Swan 33750 Perth	GWL (2003-1833-1 (203) GWL (2003-1833-1 (203)
Lot 0 on Plan 6629 and being the whole of the fand comprised in Certilicate of Till e Volume 2124 Folio 980 - Perth Internations Lot 2 on Degram 14007; Certificate of Tilla Volume 1727 Folio 476 - Lot 2 Hairsenbey Road Caversham	O. Horie Aller Drive, Cloverdale 2. HAMBIGLEY ND, CAVERSHAM 14. LEBBIG OF MITTIE SAMAI	vesorals Artistic copyration by Lineard Smith, Glaster Artistand Li Salit College	Perils - Marabooka Perils - Leedenille	South South Confined	21000 Porth	GWL 0000317120 (003)
ust 12224 von Halla dutar, "Volument (alo (17320) file - los 13224 Waterhall Al South Cultilitate) Los 10027 On Rea 6074- Volument Felio (17346) 714 - (os 10637) felm 51 Midland - John Street Physiciand Los Gon Plan 13074 - Volument Felia 1525/524 Los Sulfains del Generatifick	1042), JOHNSON MARKET HELD	City of Swan Salams, Amir	Perth - Superdicial Swan Perth - Superdicial Swan	Shire of Swan South Shire of Kelamands	217223 Perth 3000 Perth	GWL (000168263 (002) GWL (000041225 (002) GWL (000045890 (001)
LOT SAGE LON HIS 35225- Volume/Cibi CH2189/85- Co 13464 England & Micland Lot 20-7 bit ham 245- Volume/tibi 1864/45 - Co & Ch2intesh Heathol Lot 25- On Plan 1236 - Volume/Fioliu 1860/21 - Lot 225 Aurills 18 Mid-land	266, CHARLES SI, MULAND	C ty of Swane	Perth - Superficial Swan Perth - Superficial Swan	Shire of Swan South	21/22 Perth	GWL 000168263 (002)
Lat K300 On PAn 165354 - Volume/Feile i n365/107 - Lat K300 Ferd St Woodbridge Road Reserve - Terrase and dicibilities	14641 FRICTION OF MINIAMS	City of Swam City of Swam	Perth - Superlicial Swan Perth - Superlicial Swan	Shire of Swan South Shire of Swan South	217223 Perth	GWL 000168763 (007)
Lat 1963 On Plan 4539 - Volume/Folia i #3138/733 - Let 1963 West Pde Hazelmera - Brace Fillatt Reserve (Haze emera Reserve) Crown Perserva 21188 - Lat 149 James St Waldford	1993), WEST DRF, HAZEL MERRY 149, JAMES ST, GUILDEOND	City of Summer	Perth - Superficial Swan	Shine of Swan South	217723 Perch	GWI 000162763 (007)
Crown Revenue \$1,371 - Lot 0665 Khata Ny Koonganta - Chafton Yes Primay School Crown revenue \$804, Sayan I octation 10355- Chafton Street Referate Crown revenue \$804, Sayan I octation 10355- Chafton Street Referate	6318, CIAYTON ST, KDONGAMA. Crown reserve 8804; Swan I ecation 10355- Clayton Street Reliviue	Department of Education Department of Education	2 5	Shire of Swan South	198233 Pedh	GWI (0015575; (001)
Lot 14180 On Plan 189860 Videor/Cybio in 1514/93) to 14189 Arriver's Moodbridge Woodbridge Primary School Frank Berenn 2003 141 7518 Franke at Moodbridge Woodbridge Woodbridge Primary School	1418), ARCHITEST, WOODSHINGS 7526, CROCKIE RD, WOODSHINGS	Department of Education Department of Education	Porth Superficial Swan Porth - Superficial Swan	Shire of Swan South	196225 Pedh 196225 Pedh	GWI 000155795 (003)
License Address	Property 15. LATH (ART) RD, HAZY (ANY 28)	All Parties The Trustee For C is 5 Puzolo Family Trust	Aquifer Petti - I eederville.	a Sub Area Perth South Corfined	Licence Allocation GW Area 29250 Pertir	Instrument Version GWI 000110971 (007)
			pril 2012	abase at 1345hrs on 16 Ap	are Department of Water date	Information extracted from

| See See | See |

Licence Address
Portion of Hele hal occution 20s and being ror 15 the subject of Disprain 05921 and being re whole of the land comprised in Certificate of Tible Volume 1727 Folio 407 101 13 Add and hough fixed men
10114189 On Plan 189860 Volum-(Frija 19734/99) 10114189 Arther St Woodbriege
Commencement 2019 - 100 Commencement 2019 - 100 Commence Strain S
Count Peters (1227 - 1 of 1666) Calana My Kopagaria - Clerifon View Primary (2006)
Let note to the relational to the relation to the relation to the relationship to the
i in visus domine sour - edouring visit of 1918/1751 - et 9965 West Pipk Hardinger-Rivide Ribert einere Reserve) Court Reserven 2 1186 i 146 lateur 15 Visit Articul
lat 4300 On Plan 165334-1-Yolium-yPelo Injusta/107 - Lat 4300 Ford St Woodbridge
Road Reserve - Terrase Road Giuldford
us 1.641.0 Phila 3575+ Volume/filolo 1.131/4611 coll 1.6461 regulate 0.4 Helia Vol usi 1.641 on New 1.144 - Venezir (1.641 regulate 0.4 Helia Vol
Lail 20 Min 1230 - Vulhamifriuliu 1704/71 Luk 225 Kurith 54 Kindind
Let 12224 On Plan 20182 - Volume/Tollo L13120/166 - Let 12224 Waterball Rd South Guintorel
10.1 10017 On Han 00714. Volume Prédio (1) 144(7741 - (10) 1627 149m 3) Had and - John Storre Polyground Uni G 0 100 Han 15274 Volume Prédio (1) 144(7741 - (14) C 14) Had and - John Storre Polyground Uni G 0 100 Han 15274 Volume Prédio (1) 144(7741 - (14) C 14) Had and - John Storre Polyground
Lot 0 on Plan 66.25 and being the whole of the bind comprised in Certificate of Tig e Volume 2.124 Tolo 980 - Perth International Africant Horrie Miller Debre. Claverable
12 Conference (1907); Conference (1918) (1918) Conference (1918) (1918) Conference (1918) (1918) Conference (1918)
Tel 10 On Degram 6007 - Volume Feb 1912/961 - 1813 Notion Feb 1912/961 - 18
Lat 20 loyd Irret. Modand
Lat 3 Davinsed Road Handwer
as 9.0 Ptv. 227 Volume/Folo 2007/250 Lot 9 tumo 55 Guildard
Lei 30 Sentral Hood High Myaraba
AT TOO THE PROPERTY AND A STATE OF THE PROPERTY AND A STAT
10.1 On Chromo Picture (1) and Christian (1) and
L VALE DE JURISTATION DE PLATA CELLA MARTINIDA DE MAIANA SALE.  L VALE DE JURISTATION DE PLATA CELLA MARTINIDA DE MAIANA SALE.
Let 70 on Day to 1577 Confliction of Table Volume 1704 f blue 327 - 162 79 Married Stormer Vower)
LI 45 LI ON THE NEWS - Volume Pick LI LIVE (LI SE LI SELECTION LI SELE
Lot 2 on Debuggam 1132 - Volvenziferio 1910/255 - Lot 32 Durdsh tild higt Wycombe
12 CO 10 May (2014) 13 To
To a construction of the second of the secon
Localition 7,651 Estamenta Result Makta Vale
CASTRIAN CAS
Let 1011 On Pins 6473.2 - Volum #/Fein 1:0316/J160 - Let 1011 Yelenton Dr. Yellund
16113 On Plan 4532 Volume/Files 1741/572   ce 113   state Based Hardmore
Let 25 On Plan 1926 - Nourmefelou 222/125 - Luc 25 Stiffing C Hardenberg
Lat 2 on Diagna 1823 25 - Cyrlliana al Tigh Vishama 21:01 Falo Mil - Let 2 Aram II y Markana.
THE MANUFACTION OF THE PROPERTY (P. )
Parties of Service (1972) - 105 700. Revenue (1975) Model Rick, Models (1975) And (1975) Models (1975) And (1975) Models (1975)
Perion of Swart Contino 28 and Lefter to 1 to Discover 05044 and Advantage behalf the Indianase and
re in the analyse of the interest of the first of the fir

GWL 000175090 (001)	GML 000174323 (001)	GWL 000173475 (001)	GWL 000172427 (001)	GMT (000) /2427 (001)	GMT 000122317 (001)	GWL 000172128 (002)	GWL 000177101 (001)	ewr dod virve (cor)	GWA 000170758 (001)	GWA 000170/41 (201)	CAV monther footh	CAT COOLEGE COOL	CASE CONTRACT CONT	Own COO Separation	Charles and the control of the control	CHA CONTRACT CONT	GWA GEOLOGICAL SALES	GMT 000182119 (002)	GML apatestra (002)	CAT COSTENIA (COS)	CMT 000168178 (003)	GMT @GICRETA (DOS)	GWL GDG1679 GL (DG2)	CMT 000167798 (001)	GWL 0001677RS (001)	GMT 030367147 (003)	GWL 000367(41 (001)	GWL cocasc7b16 (coa)	GW1 000164788 (003)	STATE SECRETARIES SECURITY	GWL 000162380 (003)	
750 Perth	5200 Penti	15340 Pedh	9175 Penth	Section Pertin	13500 Pedli	19500 Perih	160°00 Perth	13'400 Penth	3375 Penh	MIGGO Parth	SUPER DEPOS	THE DEST	HUDA PEAT	1000 61001	MIN. 000	200	Tellow Barth	230773 Penh	28u772 Penth	2007% Pedh	280773 Penh	280775 Parth	1200 Pedh	3740 Penth	JUGU Perth	11250 Perth	3750 Penth	7250 Perth	8700 Penh		2325 Perth	
Shire of Mundaring	Shire of Kalamunda	Shand Mindarky	Shire of Mundaring	Parth South Confined	Shire of Kalamunda	Shire of Mundaring	Shared Swan South	Sharof Mundaring	Shire of Kalamunda	This of Mundarky,	Shree of Kalemanda	Shire of Mundating	PENENSTER SO DAME	WINDS URMS AD WALLS	Distribution in Paris	China of Villamond	track Carlo Carlonal	Perth South Cortined	Perth South Corfined	Perth South Confined	Perth South Corffred	Perth South Confined	Shire of Kalamanda	Shire of Kalamunda	Sirc of Kelamunda	Perth South Confined	Shire of Kalamunda	Size of Kalamanda	Shirm of Swan South	***************************************	Shire of Mundaring	
Perth - Superlicial Swan	Perth Superficial Swan	Porth - Superdicial Swan	Combined - Fractured Rock West - Fractured Rock	Parth - Lander-illa.	Perti - Superlicial Swan	Combined Fractured Rock West Fractured Rock	Perth - Superficial Swan	Parth - Superficial Swan	Perth - Superficial Swan	Combined - Fractured Rock West - Fractured Rock	Parth - Superficial Suren	Combined - Practured Rock West - Practured Rock	Petra Superiorismen	rema-Superioral Swam	retain appendix swan	Part Constitution	Parily I and an illa	Perth - Leederville	Perth Leederville	Perth - Leedandle.	Perth - Leedenille	Parth - Leederside.	Perih - Superficial Seran	Perth - Superficial Swan	Perth Superficial Swan	Perth - Leedersille.	Perth - Superficial Swan	Perth Superficial Swan	Perth - Superficial Swan	Carrier of Supervisions Secure	Perth - Superfictal Swan	
Builton Group Pty Ltd	Shire of Kolamundo	Whitehouse Hamilton TV Ltd	ROMAN CATHOLIC ARCHBISHOP OF PERTH	Number Contractors Ply LLd	Tyler , Donald	Department of Education	Fadff Inventments Pty Ltd	Hamsley, Jeffrey	Muligan Nominees Pty Itd	Helma Valley Residential Respet Pty Itd	Quaker Only Australia Pty Utd	Tiong Mohamad	SLIBSYNE HUNDINGS PTY CIN	regroportum comencer moore	ט וופווץ, דכעני הוודיונטי	CO CO CONTRACTOR OF CONTRACTOR		City of Swan	C ty of Swan	City of Saran	City of Swan	C ty vi Swam	Littletinid Development Pty Ltd	Mies, Peter Lesile	Antric Buska	Shire of Mundaring	Shire of Kalairiunda	Peters, Jennifer Ann	Rando, Stephen	many, track, many	Shire of Mundaring	
206, HD	527, 809	201, HO	200, INN		534, BD	5714, IN	A TURS	T HPTFY	500, ARF	232, HE	I, DUND	19. SAM	1,1005.0		34 PMW		The state of	10174.0	52, MOR	WAY NOW	144, HD	MK HAND	4,0770	32, BRAI	220, NA	311, HD	28, NOT	92, MILN		(		
206, HEEDIA VALLEY RD, HEEDIA VALLEY	527, DERKSI IIRE RU, FORRESTREUD	201, HELENA VALLEY RD, HELENA VALLEY	200, INNAMINOXA ND, GREEKIADUNT		534, BUNLSHINE ND, FORRESTTIELD	5714, INNAMINCKA RD, GREENMOUNT	NUM, WEST PDE, SOUTH GUILDFOND	I, HELENA VALLEY ND, HELENA VALLEY	SOO, ARERNETHY RD, HIGH WYCOMES	TT, HELENA VALLEY RD, HILENA VALLEY	I, DUNDAS RD, FORRESTREED	19, SAMSON PL, HILENA VALLEY	CHOL, CLAICHE WY, HIGH WYCDWICE		TT DROUGH IND. MAIDY ANTE	Court, Cook British of Co., Micola Swan	CONTRACTOR AND	10174. GRAY DR. MOVALE	52, IAGRRISON RD, MIDUAND	WITH, MESSENSON ND, SWALL VIEW	144, HILDIA ST, GUILDFORD	AR' HWINER 21' ANDOORNIDGE	4, LITTLEFIELD 8D, HIGH WYCOMBE	32, BRAE RD. HIGH WYCOMBE	220, NARDING CL, FORKESTFICLD	211, HEEDIA VALLEY RD, HEEDIA VALLEY	28, NOTTINGHAM GRN, HIGH WYCOMBE	92, MILNER RD, HIGH WYCOMBE		Trans it, mails vata	ENA VALLEY RD, HELENA VALLEY	
Lat 206 On Plan 4633 - Volume/Talio 1747/599 - Let 306 Helena Valley Rd Helena Valley	Lot 527 On Plan 4684 Volume/Folio 1263/563 Lot 527 Berkshire Rd Forrestfield	Lot 201 On Plan 6611 - Volume/Felia 1713/P11 - Lot 301 Holens Valley Bd Holena Valley	Lot 200 On Diagram 61972 - Volume/Folio 1859/153 - Lot 200 Innaminds Rd Greenmount - Saint Anthony's School Greenmount	Lot 41 On Diagram 14616 - Volume/toku 1130/2-1-144.1 M dzala	Lot 534 On Plan 4684 - Volume/Folio 12 19/69 - Lot 534 Berkshire Rd Forrestfield	Lot 6714 On Diagram 2008 Volume/Folio 1:3013/567 Lot 6714 Irramine ta fid Greenmount - Greenmount Primary School	Lot 57 On Plan 20143 - Volume/Felia 2720/200 - Lot 57 West Pole South Guildford	Lot 1 On Plan \$155) - Valame/Falla 2011/5/3 - Lot 1 Helens Valley Rd Helens Valley Lot 9000 On Plan 30361 - Valume/Falla 2223/565 - Lot 9000 West Pce Sauth G.Halford	t of 500 On Plan 57019 - Volume/Pelio 3682/194 - Let 500 Abernethy Rd High Wycombe	1017 On Plan data - Volume/Folio 1677/717 - 10t 217 Hahman Valley Md Hahman Valley	Lot 4 On Diseption 87772 - Volume/Felio 1410/1961 - Lot 8 Dundes Hd Foreisthidd	LUI 19 On Plan 4508 - Volume/Toko 1661/753 - Lui 19 Sainscn Pl Helena Valley	Lot 15401 On Plan 1951.) Volume/Failo 1/3114/018 Lot 15401 Omere Wy High Wyssenbe	ldt 501 On Plan 52282 - Volume/Felig i 83146/639 - Lot 501 South Guildford and Lot 502 On Plan 52282 - Volume/Felig i 83146/640 - Lot 502	Lot 32 On Diagram 52799 - Yourney Lot 62 2007 74 - Cot 22 Hawan IIId Maida Vale	HUNDERSON - LUNK a EXCHANGE A CONTRACT TO THE TOTAL CONTRACTOR - CONTR	Contract of the Contract of th	Count Research 37173 : (at 18174 Gray Dr. Michaelle Bon Jose Cont	Lut 52 On Flan 3299 Vulume/Field 2156/710 Lot 52 Marriago Rd Michael Distance Deal	Crewn Reserve 19140 - Lot 1900 Merrison Rd Satte View - Swamstew Oval	Portion of Guildford Town Lot 144 and being the whole of the land comprised in Certificate of Title Volume 1228 Folio 232 - Lot 144 Helens Stree	tot 100 on Plan 1907 - Volume/roke 11/12/552 - Let 100 ornatper at Woodbridge - Ray Mandall Park.	Lai 4 on Olegam 2014; Carl Binsin of Tille Volume 1303 Folio 040 - Loi 4 I'C Leffeld Road High Veyrombe	Lot 82 on D'agrem 60280; Certificate of Thie Volume 1591 Folio 193 - Lot 82 Brae Road High Wysombe	Lot 228 On Plan 311/2 Volume/Folio 2/24/473 Lot 220 Navidina CI ForrestRicks	LOI 2XL On Plan 46XX - Volume/Enlis 1624/6X4 - Lot 213 Helena Valley Rd Helena Valley	Lot 28 On Plan 40522 - Volume/Folio Lt3139/210 - Let 28 Nottingham Gin High Wycambe	Lat 92 On Plan 13420 Valume/Falla 1591/260 Lat 92 Withor Rd High Wyoumba	Lat 810 On Plyn 53661 - Valume/ Folia 7648/953 - Let 816. Harelmere - Lat 816 String Crescent, Harelmere	Lot 111 Un Delgram 72/01 - Venumy Hait 1/2//Hiti - UK 111 Saluma 86 Media Vene Lot 816 On Plan 53/6/4 - Volume/Folio 26/46/953 - Lot 816 Hartfriggt	Lot 207 On Plan 4633 - Volume/Telio 1636/767 - Let 207 Helena Valley Rd Helena Valley	

ana Street Guidford of Jo2 South Guidford

19 MANCHE 1912/2011
19 MAN



# **Appendix C – Site Survey Data**



# **REPORT**

Midland Survey Services 3 Victoria Street MIDLAND WA 6056 Tel: (08) 9374 7777 | Fax: (08) 9374 7799 E-Mail: survey@midlandsurveys.com.au

DATE	29 <sup>th</sup> June 2012		FAX No.					
то	Environmental Services	•	ATTENTION	Greg Watts				
FROM	Chew Chee Xun		JOB - DOCUMENT No.	11460-W1	REV	0		
TOTAL PAGES INC	CLUDING THIS ONE	1	0	REPLY REQU	IRED	No		

#### **HEADING**

Lot 20 Adelaide Street, Hazelmere

#### **CLIENT ORDER No.**

1. Co-ordinates are in metres related to MGA on SSM MV75

2. Levels are in metres related to AHD based on SSM MV75 (RL: 23.0803m)

3. Levels are to top of PVC pipe within outer casing

4. Surveyor: Chew Chee Xun
5. Date of Survey: 29<sup>th</sup> June 2012

6. Field Book Number: 1215

Name	Easting	Northing	Casing RL(m)
MB1	406504.04	6467036.79	27.281
MB2	406693.90	6466947.24	30.607
MB3	406997.15	6466823.35	34.622
MB4	406617.75	6467311.73	27.751
MB5	406731.40	6467262.78	29.034
MB6	406998.45	6467183.20	31.611

Approved

Training Manager

**Important:** The attached information is strictly confidential and intended only for the use of the individual or entity named above. If you receive this fax and are not the intended recipient, please contact the sender by telephone (reverse charges if necessary) and return the original message to the above address via Australia Post. Unauthorised accessing, use, or disclosure of the attached information is prohibited.