

Thursday 1 February 2024

OIA IRO-575

Name: [REDACTED]

Email: [REDACTED]@rnz.co.nz

Kia ora [REDACTED]

**Official information request regarding Ngauranga wastewater pipe.**

Thank you for your official information request dated Tuesday 23 January 2024.

We have considered your request in accordance with the Local Government Official Information and Meetings Act 1987 (the Act) and determined that we are able to grant your request in part.

Wellington Water provided Wellington City Council with an internal memo in October 2022 that outlined findings from an inspection of the Tyers Stream Pipe in Ngauranga which we have attached in our email to you. Subject to [Section 7\(2\)\(a\)](#) of the Act, some information has been redacted as it is personal about private individuals.

The discharge that occurred in December 2023 was caused by a landslide which broke and blocked the pipe, rather than a “burst”.

You have the right to seek an investigation and review by the Ombudsman of this decision. Information about how to make a complaint is available at [www.ombudsman.parliament.nz](http://www.ombudsman.parliament.nz) or freephone 0800 802 602.

Ngā mihi,

[REDACTED]

[REDACTED]

**Group Manager, Customer Operations Group**

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 @wellington\_water

[www.wellingtonwater.co.nz](http://www.wellingtonwater.co.nz)

**Our water, our future.**

## MEMO

TO Customer Resolution; Customer Experience Manager; Customer Planning Manager

COPIED TO

FROM [REDACTED] – Customer Planning Engineer (North)

DATE 11<sup>th</sup> October 2022

### **TYERS RESERVE WASTEWATER INSPECTION & SCOPING OPERATIONAL WORK**

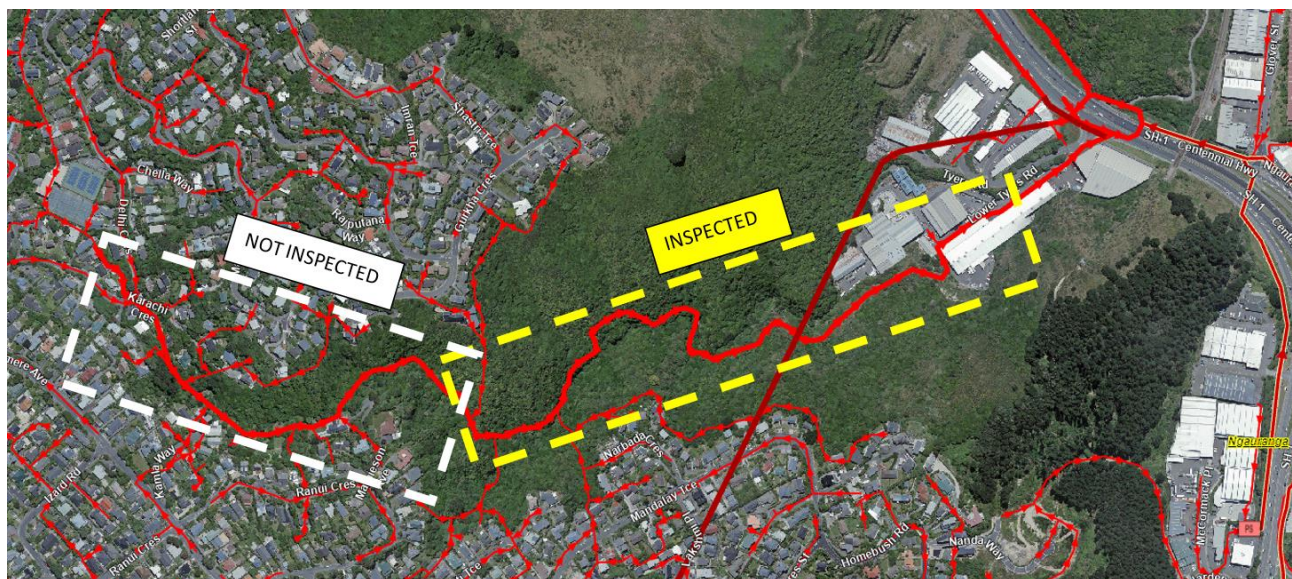
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## 1. Purpose

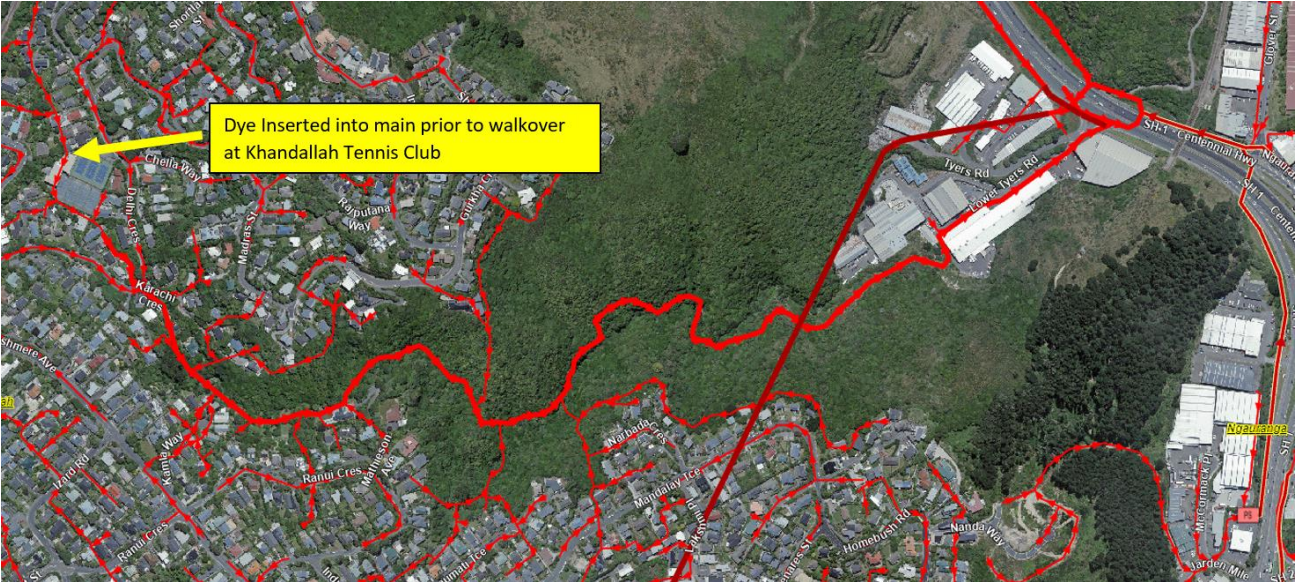
The purpose of this report is to provide a summary of the wastewater asset inspection in Tyers Reserve and proposed operational scope of work.

## 2. Background

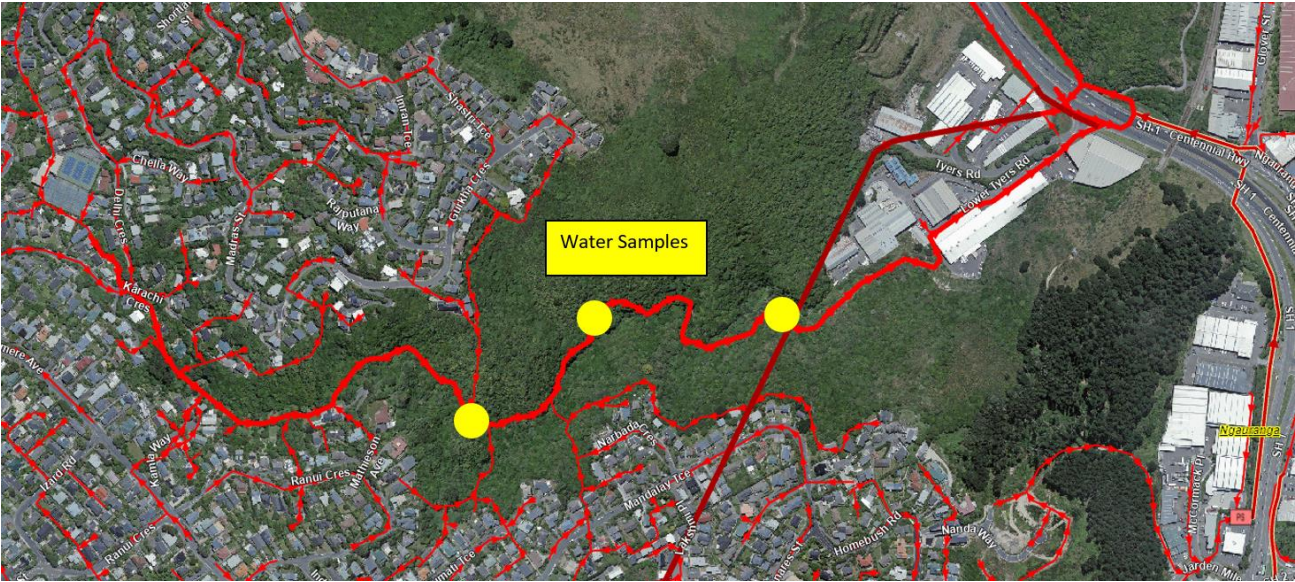
Wellington Water Customer Operations Group (COG) Customer Planning Engineer and Technical Advisor completed a walkover of Tyers Reserve Wastewater lines on Thursday 15<sup>th</sup> September starting from Lower Tyers Road and walking up Tyers Reserve and stream. Approximately 3 kilometres of the wastewater pipe and stream was visually inspected before suitable access prohibited any further safe inspection. A map of the inspected network is shown below.



Prior to the site inspection walkover dye was introduced into the wastewater network using standard drainage dye, the purpose of this is that any leak in the wastewater pipe in close proximity to the stream would leak dye and would be identified through colouration of the stream. No dye was identified in the stream or leaking from wastewater pipe during the inspection. A map of where dye was introduced prior to the inspection is shown below.



Water quality samples were taken in 3 different locations in the stream and these samples were analysed in a laboratory. A map of approximate locations where water quality samples were taken is shown below with the results shown further in this report.



### 3. Site Specific Assessments

#### 3.1 Site A

Site A is located behind National Storage facility on Lower Tyers Road, the customer has noticed water running through the concrete blocks which have been installed to retain a historic slip above the carpark. A seepage sample was collected from the water source seeping through the concrete block. Water is visibly running off slip faces above the slip. The wastewater main is located a distance away to the east of the water source.

The seepage sample results confirm that the water source is not wastewater.

No work is recommended at Site A.



### 3.2 Site B

The stormwater intake WCC\_SW017938 is currently blocked by debris.

A water quality sample was taken at the site confirming no trace of wastewater in the stream

No dye was identified or witnessed at Site B

It is recommended that the inlet structure is cleared and maintained as soon as possible.



### 3.3 Site C

Wastewater manhole WCC\_WW034944 at the first downstream bridge crossing is seeping from joint. It is recommended that the manhole is rehabilitated using Mastermix rapid repair and armour or similar product.

Foot access to the site is reasonable in all conditions however access to the manhole could be improved to carry out the specific works.

No dye was identified or witnessed at Site C

It is recommended that the manhole is rehabilitated using epoxy resin.



### 3.2 Site D – remaining alignment inspected upstream of Site C

The wastewater pipe is exposed in places resulting from movement or erosion of the stream or banks upstream of Site C. No wastewater or dye was visually inspected however wastewater odour smell can be detected in locations along the alignment.

Large rocks have fallen on the pipeline in location of a tributary stream coming into Tyers Stream.

Branch wastewater lines off the trunk main have been replaced previously due to washouts, structures from these washouts are still visible within the stream including manhole and inspections which have washed downstream.

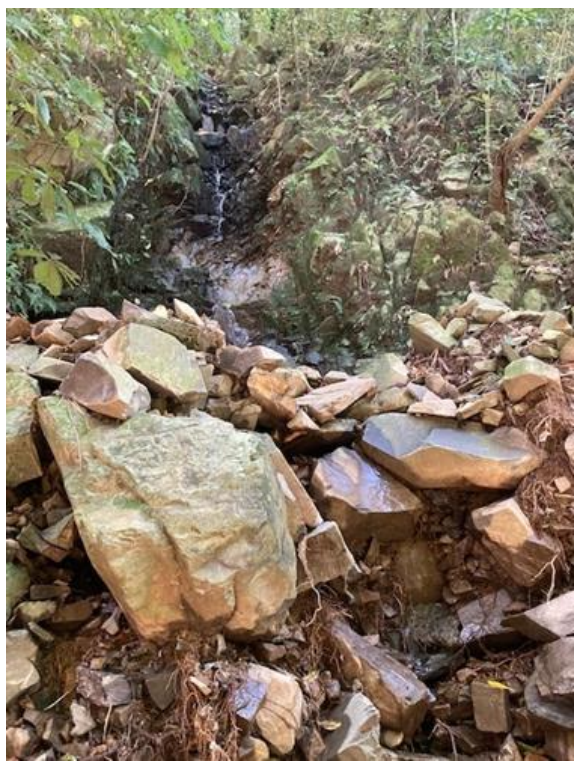
Foot access upstream of Site C is poor, the stream alignment has altered since the wastewater pipeline was constructed. It would not be possible for any equipment or gear to be mobilised of Site C without significant access tracks being formed.

No dye was identified or witnessed at Site D.

A water quality sample was taken at the site confirming no trace of wastewater in the stream.

No immediate operational work is recommended at Site D or upstream of Site C. It is recommended that a re inspection and re sampling is completed in December 2022 for comparison and monitoring.









#### **4. Proposed Operational Scope of Work**

- Clear stormwater inlet structure WCC\_SW017938
- Repair Wastewater Manhole WCC\_WW034944 including provisions of safe foot access to this manhole.
- Re sample and site walkover stream locations in December 2022 for comparison of stream quality.

#### **5. Recommendations**

- Complete immediate operational scope of work as outlined in 4. Proposed operational scope of work.
- Reinspect the wastewater pipeline and complete sampling for comparison December 2022.
- The wastewater pipeline is added to the Wellington Water operational risk register with high risk rating.
- The wastewater pipeline is highlighted to Service planning in the event of failure it is unlikely that the pipeline will be able to be repaired, reconstructed or rehabilitated in the existing location due to safe access.

#### **6. Appendix A – Eurofin Sample Results**

## Food & Water Testing

# ANALYTICAL REPORT

REPORT CODE **AR-22-NW-035216-01** REPORT DATE **06/10/2022**

Attention Wellington Water Ltd

Wellington Water Management  
 Level 4, Ibm House  
 25 Victoria Street  
 Petone Lower Hutt  
 NEW ZEALAND

Phone [REDACTED]  
 Email [REDACTED]@wellingtonwater.co.nz

Copy to: [REDACTED]@wellingtonwater.co.nz, Wellington Water Ltd  
 (drainageinvestigations@wellingtonwater.co.nz), [REDACTED]

**Contact for your orders:** [REDACTED] **Order code:** EUNZWE-00060544  
**Contract:** Seepages PCC  
**Submission Reference:** Porirua Engineers **Purchase Order Number:** 280881

**SAMPLE CODE** 812-2022-00106469

**Client Reference:** COG WO # 224635  
**Sample described as:** Tyers Road Wastewater National Storage  
**Reception Date & Time:** 03/10/2022 15:00  
**Analysis Start Date & Time:** 03/10/2022 17:05 **Analysis Ending Date:** 06/10/2022  
**Sampled Date & Time** 03/10/2022 11:00

	RESULTS	LOQ
<b>NW007 Chloride</b>		
Chloride (Cl)	66.6 mg/l	0.02
<b>ZM2H3 Enumeration of Faecal Coliforms By Membrane Filtration</b>		
Faecal Coliforms	<100 cfu/100 ml	100
<b>NW006 Fluoride</b>		
Fluoride	0.15 mg/l	0.02
<b>NW008 Nitrite-N</b>		
Nitrite	0.03 mg/l	0.01

### LIST OF METHODS

NW006 <b>Fluoride:</b> APHA Online Edition 4110 B	NW007 <b>Chloride:</b> APHA Online Edition 4110 B
NW008 <b>Nitrite-N:</b> APHA Online Edition 4110 B	ZM2H3 <b>Faecal Coliforms E (Water) [NZ] &lt;100 &gt;60 000 /100 ml (0-1) m-FC Agar-F:</b> SMEWW 9222D; APHA Online

Signature

[REDACTED SIGNATURE]

Supervisor

[REDACTED SIGNATURE]

Business Unit Manager  
Microbiology

### EXPLANATORY NOTE

## Food & Water Testing

- ① Test is not accredited
- ② Test is subcontracted within Eurofins group and is accredited
- ③ Test is subcontracted within Eurofins group and is not accredited
- ④ Test is subcontracted outside Eurofins group and is accredited
- ⑤ Test is subcontracted outside Eurofins group and is not accredited
- ⑥ Test result is provided by the customer and is not accredited
- ⑦ Tested at the sampling point by Eurofins and is not accredited
- ⑧ Tested at the sampling point by Eurofins and is accredited

**N/A** means Not applicable

**Not Detected** means not detected at or above the Limit of Quantification (LOQ)

**LOQ** means Limit of Quantification and the unit of LOQ is the same as the result unit

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The tests are identified by a five-digit code, their description is available on request.

Accreditation does not apply to comments or graphical representations.

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This report issued by Eurofins relates exclusively to the samples provided by the Customer and does not relate to the lot / batch from which the samples have been obtained.

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All samples become the property of Eurofins to the extent necessary for the performance of the Services.

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If the Customer pays for storage of the samples Eurofins will take commercially reasonable steps to store the samples for the agreed period in terms of industry practice.

The Customer acknowledges and accepts that: (a) it is solely responsible for the sampling process and warrants that the sample provided to Eurofins is representative of the lot / batch from which the samples were drawn; and (b) Eurofins expresses no opinion and accepts no liability in respect of the Customer's production process or homogeneity of the sample.

The Eurofins water sampling services uses IANZ approved methodology based on AS/NZS 5667 and / or best practice to collect and transport samples that are fit for the purpose of analytical testing. Eurofins shall have no liability if the sample collected is not representative of the source from which it has been taken. The laboratory is not responsible for sampling activities unless explicitly indicated by the statement "Sampled by Eurofins" on the report for water samples.

The Customer acknowledges that the Services are provided using the then current state of technology and methods developed and generally applied by Eurofins and involve analysis, interpretations, consulting work and conclusions. Eurofins shall use commercially reasonable degree of care in providing the Services.

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### END OF REPORT

## Food & Water Testing

# ANALYTICAL REPORT

REPORT CODE **AR-22-NW-033177-01** REPORT DATE **21/09/2022**

Attention Wellington Water Ltd

Wellington Water Management  
 Level 4, Ibm House  
 25 Victoria Street  
 Petone Lower Hutt  
 NEW ZEALAND

Phone [REDACTED]  
 Email [REDACTED]@wellingtonwater.co.nz

Copy to: [REDACTED]@wellingtonwater.co.nz), Wellington Water Ltd  
 (drainageinvestigations@wellingtonwater.co.nz); [REDACTED]

**Contact for your orders:** [REDACTED] **Order code:** EUNZWE-00057302  
**Contract:** Seepages PCC  
**Submission Reference:** Tyres Stream **Purchase Order Number:** 280881

**SAMPLE CODE** **812-2022-00099449**

**Client Reference:** COG WO# 226621  
**Sample described as:** Seepage- Tyres Stream High  
**Sampling Point** NW0001006005:Seepage - PCC  
**Reception Date & Time:** 15/09/2022 14:30  
**Analysis Start Date & Time:** 15/09/2022 16:42  
**Sampled Date & Time** 15/09/2022 11:00

**Analysis Ending Date:** 21/09/2022

### RESULTS

### LOQ

<b>NW007 Chloride</b>			
Chloride (Cl)	45.9	mg/l	0.02
<b>ZM2H3 Enumeration of Faecal Coliforms By Membrane Filtration</b>			
Faecal Coliforms	900	cfu/100 ml	100
<b>NW006 Fluoride</b>			
Fluoride	0.12	mg/l	0.02
<b>NW008 Nitrite-N</b>			
Nitrite	<0.01	mg/l	0.01

**SAMPLE CODE** **812-2022-00099450**

**Client Reference:** COG WO# 226621  
**Sample described as:** Seepage- Tyres Stream Mid-High  
**Sampling Point** NW0001006005:Seepage - PCC  
**Reception Date & Time:** 15/09/2022 14:30  
**Analysis Start Date & Time:** 15/09/2022 16:42  
**Sampled Date & Time** 15/09/2022 11:00

**Analysis Ending Date:** 21/09/2022

### RESULTS

### LOQ

<b>NW007 Chloride</b>			
Chloride (Cl)	43.5	mg/l	0.02
<b>ZM2H3 Enumeration of Faecal Coliforms By Membrane Filtration</b>			
Faecal Coliforms	600	cfu/100 ml	100
<b>NW006 Fluoride</b>			
Fluoride	0.12	mg/l	0.02
<b>NW008 Nitrite-N</b>			

## Food & Water Testing

	RESULTS	LOQ
<b>NW008 Nitrite-N</b>		
Nitrite	<0.01 mg/l	0.01

**SAMPLE CODE** 812-2022-00099451

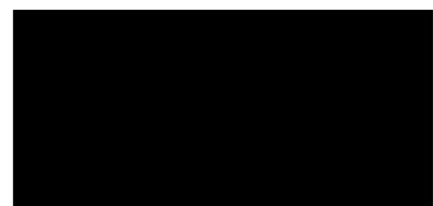
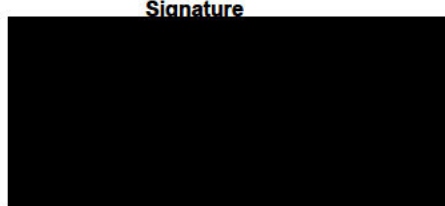
**Client Reference:** COG WO# 226621  
**Sample described as:** Seepage- Tyres Stream Low  
**Sampling Point** NW0001006005:Seepage - PCC  
**Reception Date & Time:** 15/09/2022 14:30  
**Analysis Start Date & Time:** 15/09/2022 16:42      **Analysis Ending Date:** 21/09/2022  
**Sampled Date & Time** 15/09/2022 11:00

	RESULTS	LOQ
<b>NW007 Chloride</b>		
Chloride (Cl)	47.1 mg/l	0.02
<b>ZM2H3 Enumeration of Faecal Coliforms By Membrane Filtration</b>		
Faecal Coliforms	700 cfu/100 ml	100
<b>NW006 Fluoride</b>		
Fluoride	0.12 mg/l	0.02
<b>NW008 Nitrite-N</b>		
Nitrite	<0.01 mg/l	0.01

**LIST OF METHODS**

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NW008 <b>Nitrite-N:</b> APHA Online Edition 4110 B	ZM2H3 <b>Faecal Coliforms E (Water) [NZ] &lt;100 &gt;60 000 /100 ml (0 1) m FC Agar F SMEWW 9222D; APHA Online</b>

Signature

 Supervisor

 Laboratory Manager, Microbiology

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**N/A** means Not applicable  
**Not Detected** means not detected at or above the Limit of Quantification (LOQ)  
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**Food & Water Testing**

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**END OF REPORT**