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Rangiputa Wastewater Treatment Plant



Plant overview

The Rangiputa wastewater treatment plant is located close to the Rangiputa township on the Karikari peninsula. Being a beach side community, the population of Rangiputa varies considerably. Populations are higher during the summer, peaking over the Christmas period. The plant currently serves a winter population of approximately 100 and a summer population of up to 400.

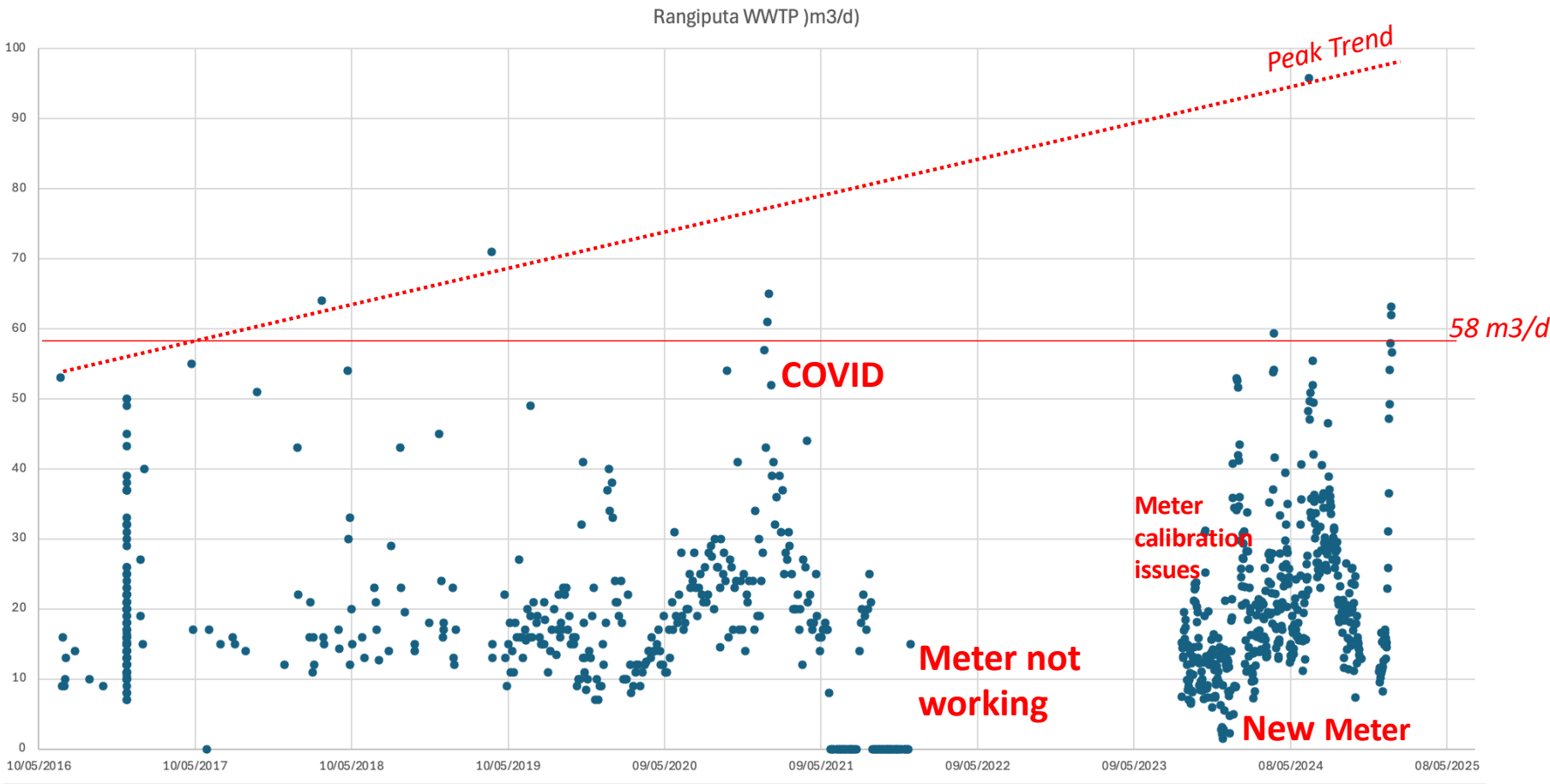
Treating the wastewater

The treatment plant consists of a three large oxidation ponds where natural biological processes encourage the decline of nitrogen and bacterial content in the wastewater as it flows from the first to the last pond. The treated wastewater is discharged into the ground via deep bores. The system is designed to discharge approximately 58 cubic metres of wastewater each day.

Monitoring

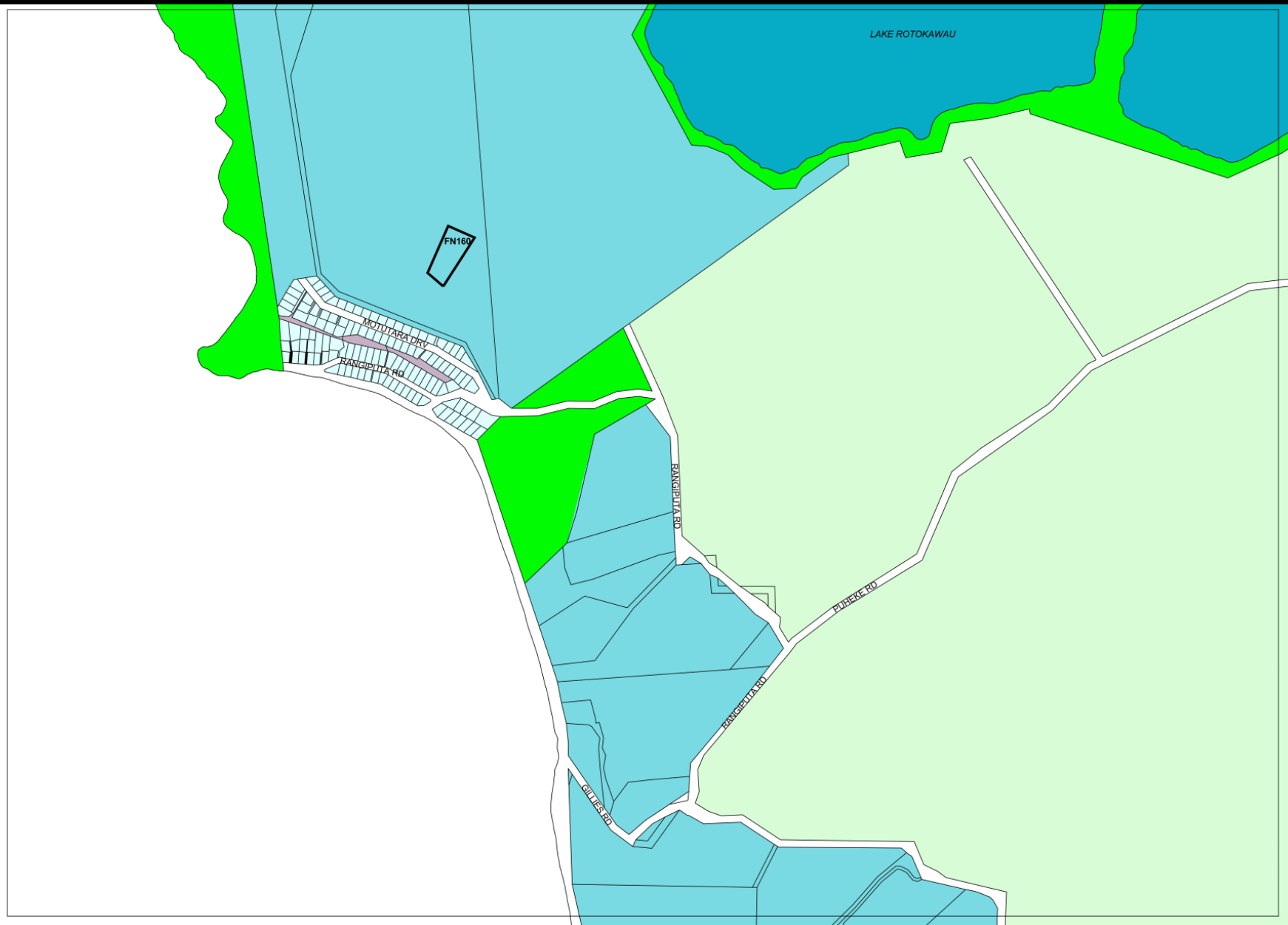
The discharges from the treatment plant are authorised by a resource consent. You can [read a copy of the resource consent here](#).

NRC Consent reporting data – Rangiputa WWTP inlet flow 2010 - 2024



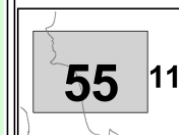
FNDC Designation FN160 – Pipelines. WWT Plant & Disposal





- Zone**
- Conservation
 - Coastal Residential
 - General Coastal
 - Lakes and Rivers
 - Recreational Activities
 - Rural Production
 - Road
 - Coastal Marine
 - Designations

Note :-
Roads carry the same zoning as the adjoining land. If a boundary between zones follows a road, the zone boundary is located on the centreline of the former road, or where unformed, the centreline of the legal road



Map Index
Map 55
RANGIPUTA

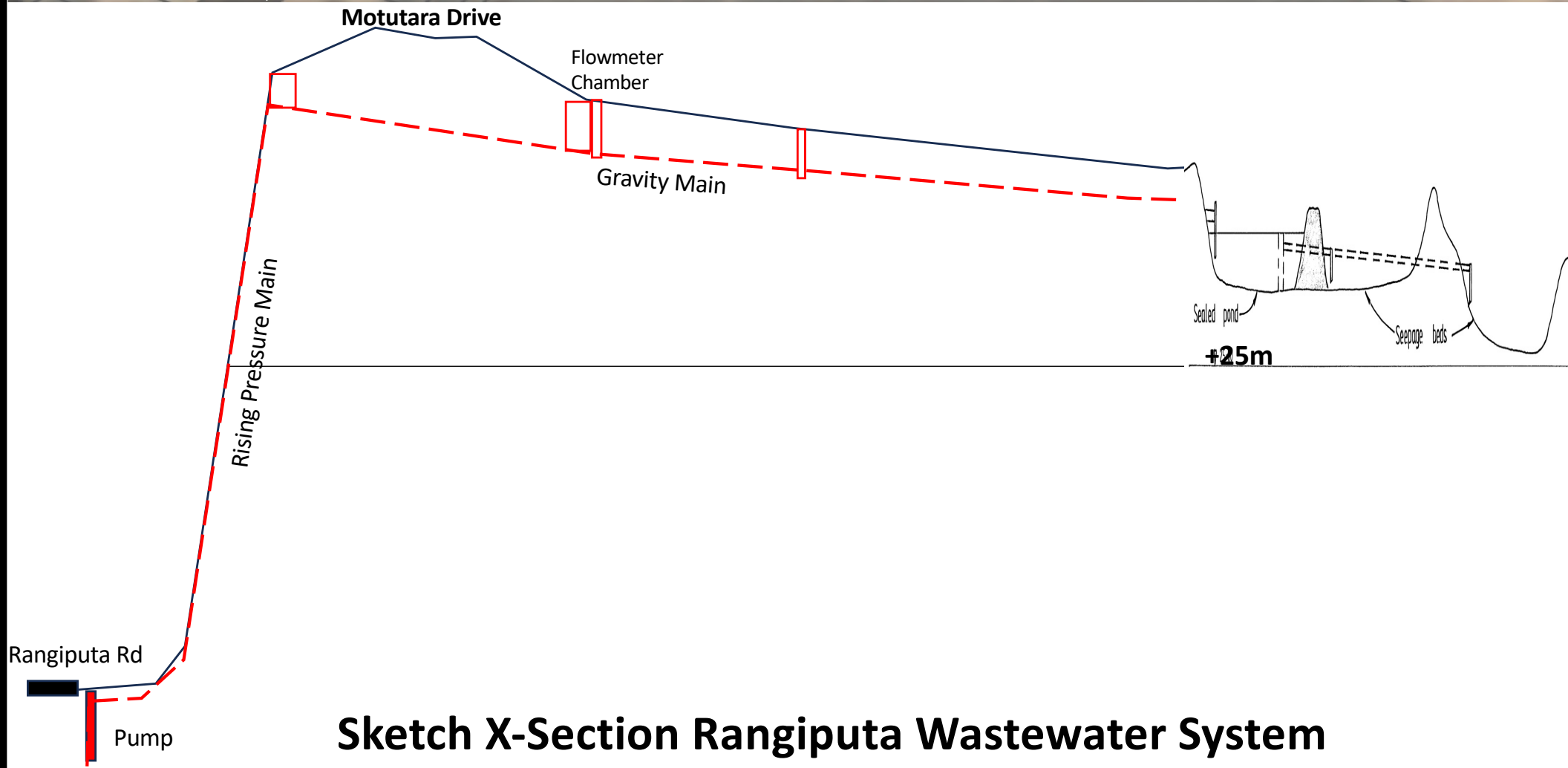
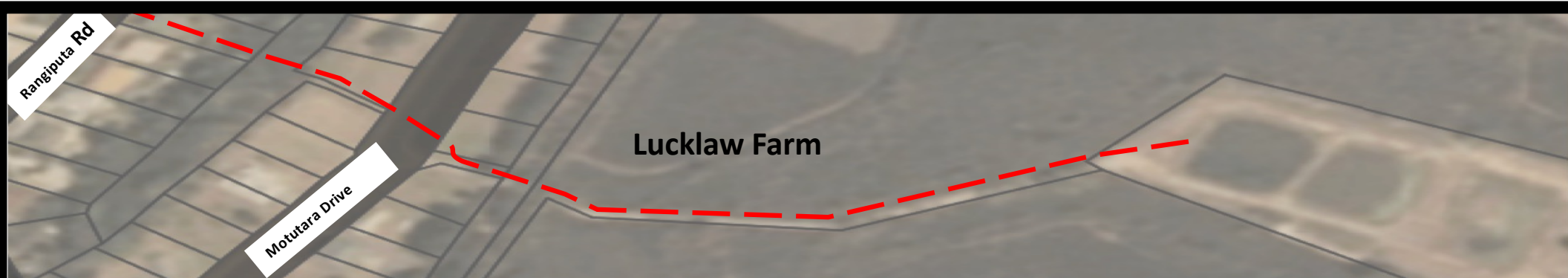


Rangiputa Waste water Treatment Plant (WWTP)



Water Services





Sketch X-Section Rangiputa Wastewater System

1977

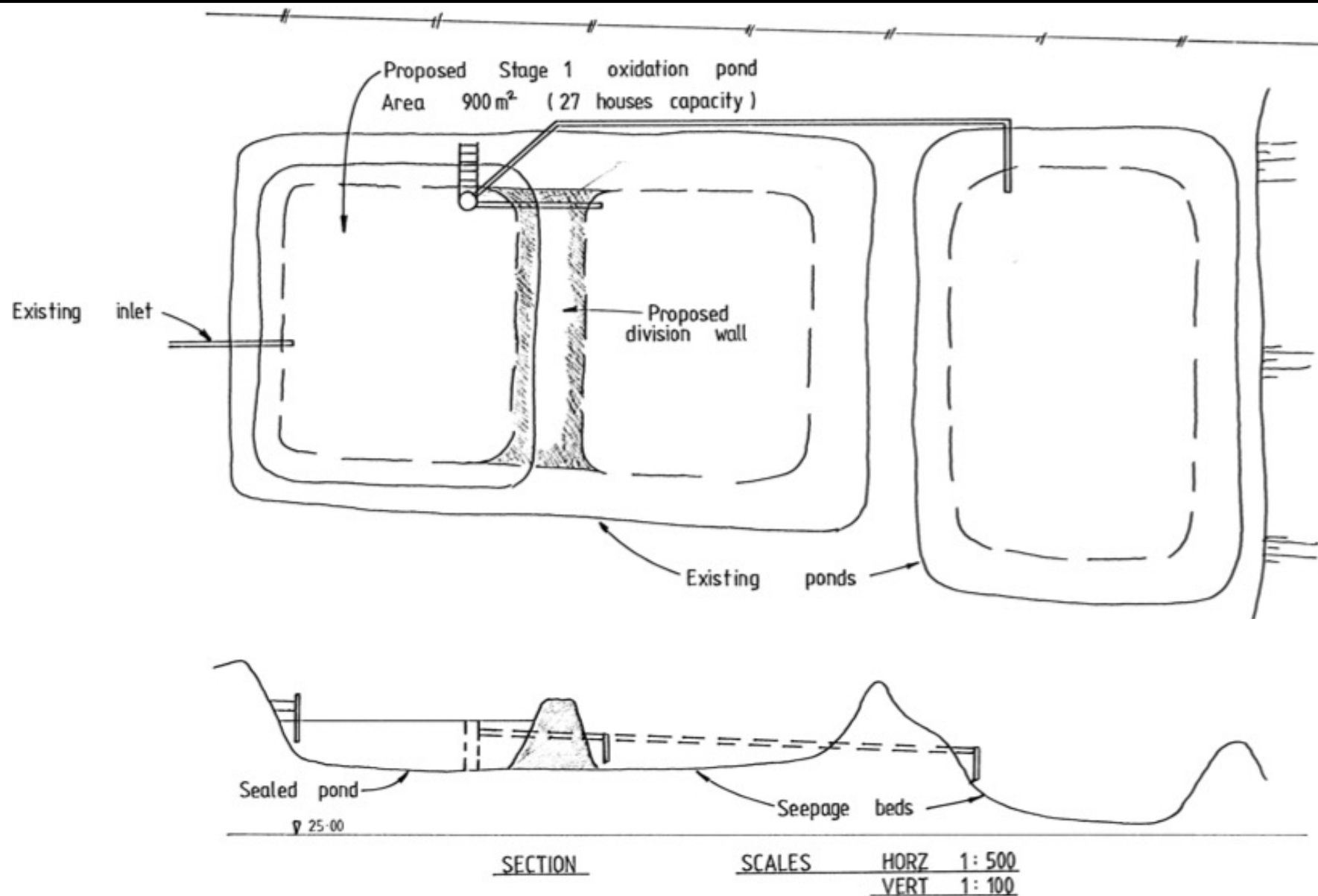
Rangiputa WWTP connections

Approved : 0


Established: ?



1983



ALTERATIONS TO RANGIPUTA OXIDATION PONDS.

APPROVED

 COUNTY ENGINEER
 20.5.83




MANGONUI COUNTY COUNCIL
 Kaitia

1984

Rangiputa WWTP connections

Approved : 27

Established: 20 ?



27 houses scheme within
approved 51 site subdivision

RESOURCE CONSENT 2635 (01 02)

Pursuant to the Resource Management Act 1991, the Northland Regional Council does hereby grant a Resource Consent to:

1998

FAR NORTH DISTRICT COUNCIL, PRIVATE BAG 752, KAIKOHE

To carry out the following activities associated with a sewage treatment system serving Rangiputa in the catchment of Kohanga Bay on Lot 1 DP 72867 Blk III Karikari SD, Map Reference O03:380-028:

- 01 To discharge treated domestic wastewater and seepage from the treatment system to ground.
- 02 To discharge contaminants into the air.

subject to the following conditions:

GENERAL CONDITIONS APPLYING TO ALL CONSENTS

- 1 The Consent Holder shall submit a Management Plan to the Regional Council for approval within three months of the date of commencement of this consent for its approval. The Management Plan shall cover all aspects of the operation and maintenance of the system including contingency measures for unforeseen or emergency situations. The operation and maintenance of the sewage treatment and disposal system shall be carried out in accordance with the approved Management Plan.
- 2 The Consent Holder shall ensure that monitoring of this consent shall be in accordance with Schedule 1 (attached).
- 3 The conditions of these consents will be reassessed between 2 and 3 years of their date of commencement including the design capacity, monitoring methods, sites and sampling frequencies. The Consent Holder shall meet the reasonable costs of the reassessment.

- 4 In accordance with Section 128 of the Resource Management Act 1991, the Regional Council may review all conditions of these consents annually, following assessment of the results of any monitoring in the area which indicate adverse environmental effects as a result of the exercise of these consents. The Consent Holder shall meet the reasonable costs of each review.

DISCHARGES TO GROUND

- 5 The total quantity discharged shall not exceed 58 cubic metres per day
- 6 The Consent Holder shall provide the Regional Council with details of effluent quantities pumped daily, at monthly intervals, by the fifteenth day of the following month.

DISCHARGE TO AIR

- 7 The Consent Holder shall maintain a concentration of at least one milligram per litre of dissolved oxygen in the oxidation ponds at all times.
- 8 There shall be no discharge to air of odours, which in the opinion of an enforcement officer of the Regional Council, is noxious, toxic, dangerous, offensive or objectionable, at or beyond the boundary of the property.

EXPIRY DATE: 30 NOVEMBER 2007

ISSUED at Whangarei this Twenty-first day of September 1998

Re: Resource Consent Application Con20070263501 – Far North
District Council – Rangiputa Wastewater Treatment Plant.

5th June, 2008.

We were not aware until some weeks ago, when speaking with Ashley Berry-Smith's Farm Manager, whose property lies to the east of our boundary, that he has been experiencing problems in locating an area, clear of seepage from pond 3 (at least), in which to excavate a dam for watering stock, but has found that the seepage goes far beyond our mutual boundary. This gives a fair indication that there is logic in our belief that if the Sub-division is located 100ft. above sea level and the Lake Rotokawau is situated 13ft. above sea level, then what goes into the ground at sub-division level must eventually end up, hopefully filtered, in the pristine lake's waters.

Re: Resource Consent Application Con20070263501 – Far North
District Council – Rangiputa Wastewater Treatment Plant.

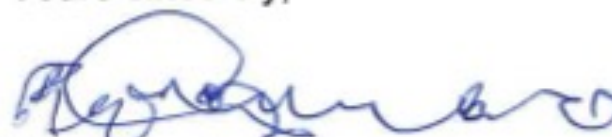
5th June, 2008.

Unfortunately, our past experiences with this Council, (and “Consent Conditions”) are rarely adhered to and of course the remoteness of this sub-division lends itself to neglect.

Another matter which has not been considered, is that which occurred in Ahipara last summer. Because it is a holiday area, friends and relatives overflow into tents and caravans and make use, no doubt, of the sanitary arrangements of the cottages on site. Thus, the ponds are overloaded and usually the problems arise in March with the arrival of the normal storm period.

These comments are made in good faith and, hopefully will resolve some of the problems.

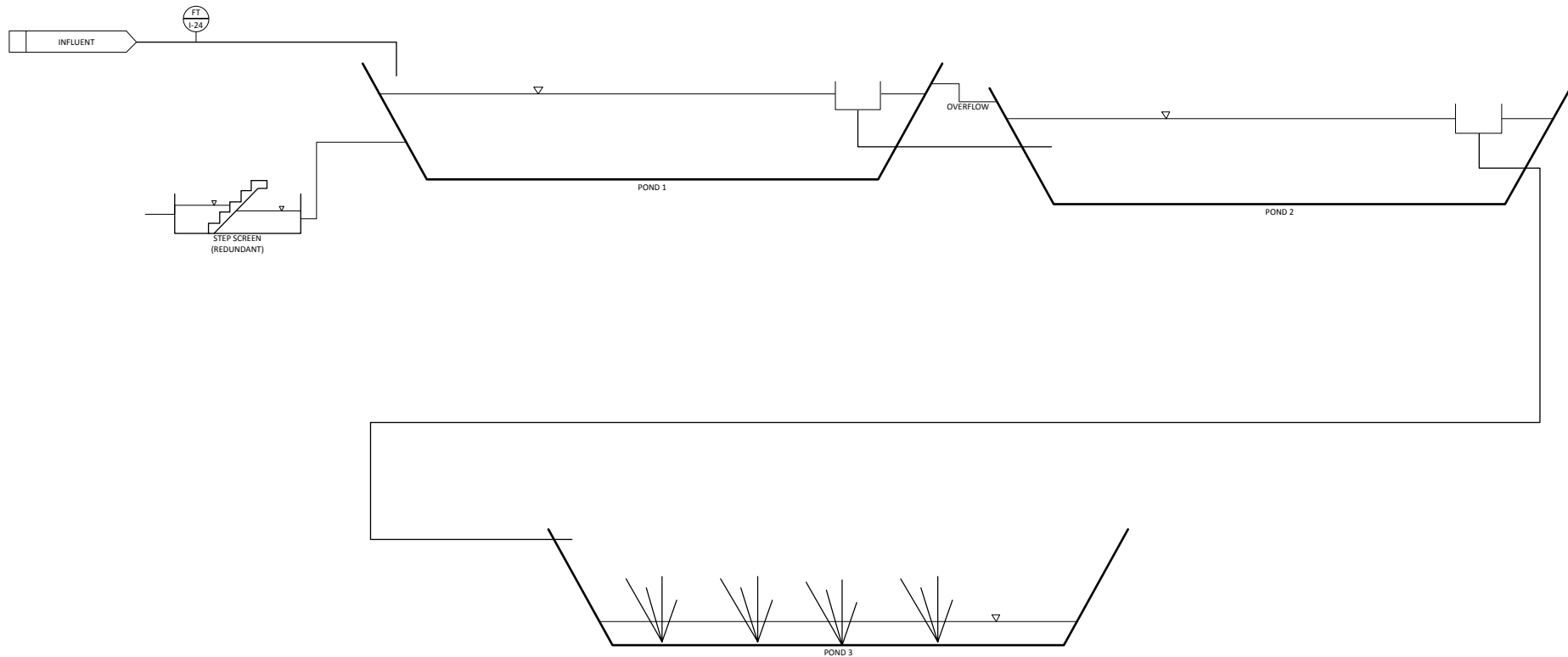
Yours sincerely,

A handwritten signature in blue ink, appearing to read 'B.D. Saunders', with a stylized flourish at the end.

B.D. Saunders

For and on behalf of Daughter Michele Saunders.

2013



SITE	
RANGIPUTA STP	
SHEET TITLE	
P&ID	
SHEET NUMBER	DATE PRINTED
1 OF 1	12.02.2013

2015

Rangiputa WWTP connections

Approved : 91*

Established: ~80

Avg Flow = 16.5 m³/d

Peak Flow Rate = 124 m³/d

Population = 590



* June 2008 NRC Consent "The treatment plant is currently connected to 61 dwellings which is expected to increase to 91 by year 2032"

FNDC WWTP Submission Data FYE 2017

Managing organisation	Financial year for which data was last collected	WWA7a	WWA7b		WWA7c	WWA7d				WWA7e				WWA7f			WWA7h	WWA7i				WWA7j					WWA7l	WWA7m	WWA7n	WWA7o	WWA7p	Notes	
		Treatment Plant Name	Location			Level of treatment	Volume of wastewater treated at Treatment Plant				Receiving environment for treatment plant effluent				Proportion of Trade Waste			Treatment Plant		Treatment Plant Sludge Production				Treatment Plant Sludge Disposal					Treatment plant backup generator	Peak wet to dry flow ratio	Discharge Flow rate (m3/day)		Treatment Type
			Northing	Easting	2017-2018		2016-17	2015-16	2014-15	Freshwater	Land application	Marine harbour	Marine coastal	2017-18	2016-17	2015-16	Discharge of effluent	Effluent consent status	2017-18	2016-17	2015-16	2014-15	on site stockpile	landfill	composting and reuse	other (specify)	Comments						
Far North District Council	2017-18	Ahipara	6108300.00	1614547.00		Secondary	63983.00		116116.00	76700.00	100.00%	0.00%	0.00%	0.00%		2.00%	30/11/2033	Current	11.00		4.60		20.00%	0.00%	0.00%	0.00%		no	3.80	462.51	Oxidation pond; Artificial Wetland	2100.00	
Far North District Council	2017-18	East Coast/Taipa	6124297.00	1641899.00		Secondary	201551.00		168816.00	166500.00	100.00%	0.00%	0.00%	0.00%		5.00%	30/11/2008	Lodged	8.00		3.40		25.00%	0.00%	0.00%	0.00%		no	3.60	51.48	Aerated Ponds; Artificial Wetland	320.00	
Far North District Council	2017-18	Hihi	6129562.00	1649290.00		Tertiary	20550.00		18790.00	23900.00	100.00%	0.00%	0.00%	0.00%		2.00%	30/11/2022	Current	6.00		0.30		0.00%	0.00%	0.00%	100.00%		no	4.20	188.55	Activated sludge; Wetland	843.16	
Far North District Council	2017-18	Kaeo	6115580.00	1669780.00		Tertiary	79726.00		68820.00	69300.00	100.00%	0.00%	0.00%	0.00%		5.00%	31/10/2022	Current	2.00		2.10		90.00%	0.00%	0.00%	0.00%		yes	4.20	1661.10	Oxidation ponds; Wetland	4502.69	
Far North District Council	2017-18	Kaikohu	6079466.00	1674525.00		Secondary	832938.00		606303.00	688200.00	100.00%	0.00%	0.00%	0.00%		10.00%	30/11/2021	Current	130.00		22.30		0.00%	0.00%	0.00%	0.00%		no	2.50	1921.17	Anaerobic Ponds; Oxidation pond; Wetland	6150.02	2% ds to lagoon
Far North District Council	2017-18	Kaitia	6114496.00	1620595.00		Secondary	1036768.00		701227.00	751000.00	100.00%	0.00%	0.00%	0.00%		40.00%	30/11/2021	Current	83.00		25.80		0.00%	0.00%	0.00%	0.00%		no	2.40	751.33	Oxidation ponds (3 in series); Artificial Wetland	1757.15	
Far North District Council	2017-18	Kawakawa	6085550.00	1697850.00		Tertiary	276838.00		274234.00	242100.00	100.00%	0.00%	0.00%	0.00%		10.00%	30/04/2036	Current	36.00		4.60		0.00%	0.00%	0.00%	0.00%		no	1.90	533.41	Bio-Reactor; Filter; UV; Artificial Wetland	4832.16	
Far North District Council	2017-18	Kerikeri	6100507.00	1687261.00		Tertiary	209979.00		194694.00	150400.00	100.00%	0.00%	0.00%	0.00%		10.00%	30/10/2036	Current	50.00		2.90		0.00%	0.00%	0.00%	100.00%		no	2.30	26.44	Primary Settlement; RBC; UV	230.00	
Far North District Council	2017-18	Kohukohu	6082749.00	1648612.00		Secondary	11729.00		9649.00	10600.00	0.00%	0.00%	100.00%	0.00%		5.00%	31/08/2016	Lodged	1.00		0.40		0.00%	0.00%	0.00%	0.00%		no	2.30	198.70	Oxidation pond; Artificial Wetland	700.00	
Far North District Council	2017-18	Opononi	6069420.00	1635620.00		Secondary	83763.00		72527.00	72700.00	0.00%	0.00%	100.00%	0.00%		8.00%	31/08/2019	Current	3.00		0.20		0.00%	0.00%	0.00%	0.00%		no	2.80	1109.41	Aerated Ponds; Artificial Wetland	4283.05	
Far North District Council	2017-18	Paihia	6097950.00	1693350.00		Secondary	439528.00		404933.00	409200.00	100.00%	0.00%	0.00%	0.00%		12.00%	30/04/2034	Current	62.00		12.10		0.00%	0.00%	0.00%	0.00%		no	2.90	16.15	Anaerobic Ponds; Oxidation ponds; Artificial Wetland	105.40	
Far North District Council	2017-18	Rangiputa	6140319.00	1626936.00		Secondary	7527.00		5896.00	6400.00	0.00%	100.00%	0.00%	0.00%		2.00%	30/11/2032	Current	0.30		0.20		0.00%	0.00%	0.00%	0.00%		no	1.80	123.96	Oxidation ponds	590.00	
Far North District Council	2017-18	Rawene	6080822.00	1645520.00		Secondary	50851.00		45244.00	45500.00	0.00%	0.00%	100.00%	0.00%		5.00%	31/10/2023	Current	4.00		1.40		0.00%	0.00%	0.00%	0.00%		no	3.80	232.00	Anaerobic Pond; Oxidation ponds; Artificial Wetland	1800.00	
Far North District Council	2017-18	Russell	6096527.00	1703384.00		Tertiary	94738.00		84681.00	94700.00	0.00%	100.00%	0.00%	0.00%		8.00%	30/04/2024	Current	25.00		1.30		0.00%	0.00%	0.00%	100.00%		yes	2.50	106.54	SRB; Filtration; UV	500.00	
Far North District Council	2017-18	Whatuwhiwhi	6141700.00	1633600.00		Tertiary	39883.00		38886.00	43900.00	100.00%	0.00%	0.00%	0.00%		2.00%	30/11/2025	Current	3.00		0.80		0.00%	0.00%	0.00%	0.00%		no	3.30	13000.00	Aerated Aquamat Ponds; UV	31660.00	

2023

Rangiputa WWTP connections

Approved : 91 (NRC Consent)

Established: 106+ *

Avg Flow = 16.0 m³/d ?

Peak Flow Rate = 96 m³/d ?



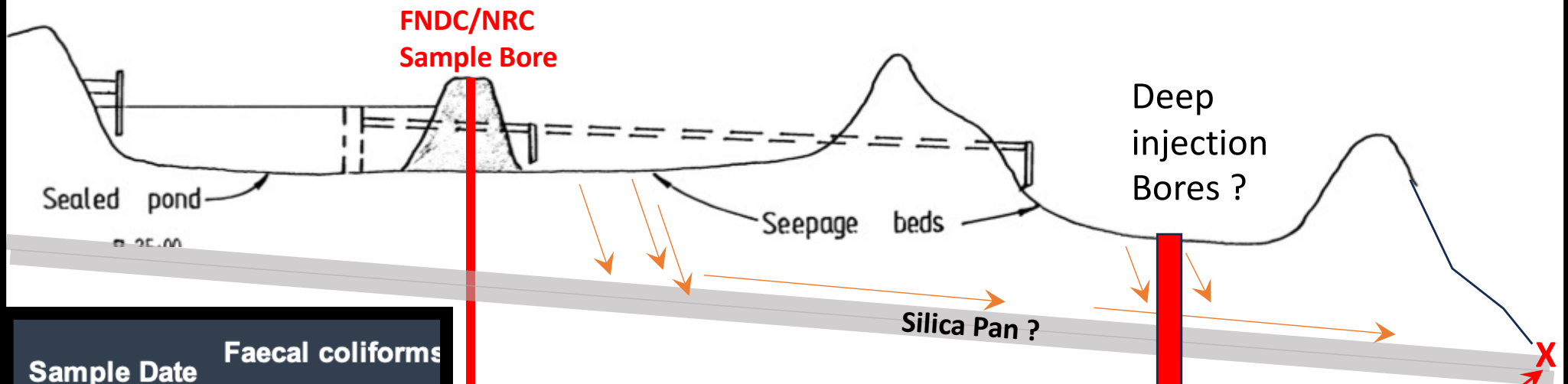
*FNDC Nov'24 – “There are 106 properties paying the connected rate”



Heathlands



Sketch X-Section Rangiputa Wastewater Plant – Faecal Coliforms



Sample Date	Faecal coliforms MPN/100mL
09/03/2023	18.5
15/05/2023	17.7
09/08/2023	16.6
18/09/2023	16.6
15/11/2023	17
27/11/2023	18.5
30/01/2024	18.1
21/02/2024	30
14/05/2024	3.3
14/08/2024	120
29/01/2025	

Acceptable level

16/4/2025 10:45

17/4/2025 11:16

Farm Sample Spots

Escherichia coli MPN*/100mL
(Method Reference :
Colilert 97 well by APHA 9223B)

>2419.6

387.3 1732.9

Alert level

Action level

? < > ?

29 February 2024

Far North District Council
Email: iamcompliance@fndc.govt.nz

Dear Far North District Council,

MONITORING REPORT FOR RESOURCE CONSENT AUT.002635.01.03: DISCHARGE TREATED MUNICIPAL SEWAGE AT RANGIPUTA WWTP

An officer of the Northland Regional Council inspected the Wastewater Treatment Plant on Wednesday, 21 February 2024 to assess compliance with resource consent AUT.002635.01.03.

The results indicate compliance with the 2024 quarterly monitoring inspection.

Condition 6	Compliance
Stormwater from surrounding areas shall, as far as is practicable, be prevented from entering the wastewater treatment and disposal system.	Full compliance
Condition 7	Compliance
Notwithstanding any other condition, the exercise of this consent shall not result in wastewater from any treatment or disposal pond overflowing onto adjacent land.	Full compliance
Condition 8	Compliance
The maintenance and operation of the Rangiputa Wastewater Treatment Plant shall not give rise to any discharge of contaminants to air, at or beyond the boundary of Lot 1 DP 72867 Blk III Karikari SD, which is deemed by a suitably trained and experienced Enforcement Officer of the Regional Council to be noxious, dangerous, offensive or objectionable.	Full compliance

Site ID:	104873
Sample ID:	20240667
Site Name:	Rangiputa O/P Groundwater @ Sampling Bore No 2
Conductivity at 25 deg C (us/cm)	371.6
Dissolved Oxygen (mg/L)	0.51
Dissolved Oxygen Percent Saturation (% Sat)	5.3
Faecal Coliforms (presumptive) (CFU/100ml)	<1.6
Nitrite/nitrate nitrogen (g/m3-N)	0.0059
Temperature (degC)	18.1

