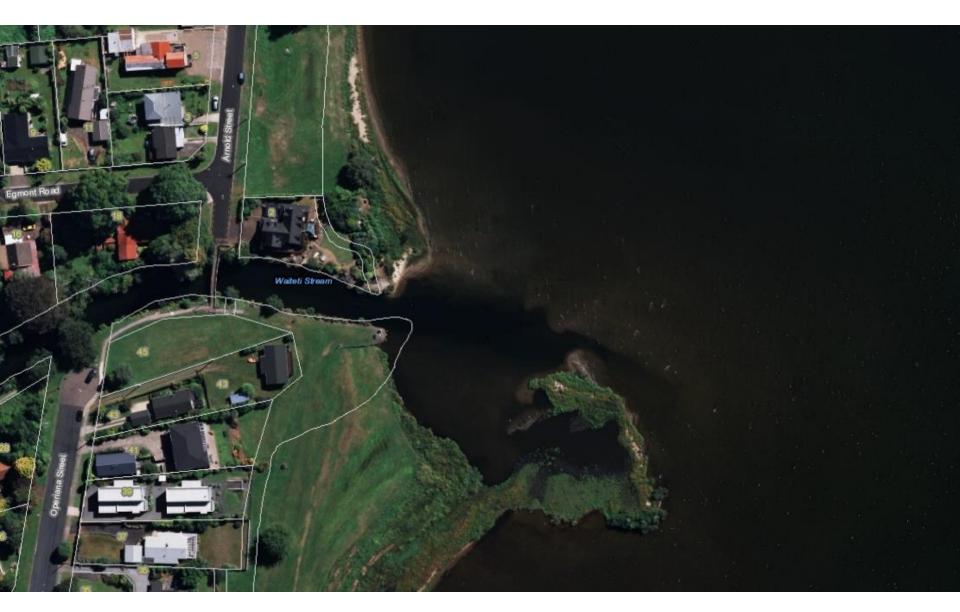
Background

- Waitetī Marae– Sediment accumulation becoming an issue for Waitetī Stream. Asked BOPRC to look at options to remove material
- There is interest in sediment removal as Utuhina and Awahou have similar concerns
- Undertaking sediment removal may have implications elsewhere
- Historically, sediment formation has come and gone
- Understanding significance of sediment will help to make decisions

- Sediment samples have been taken from Waitetī Stream mouth (as plotted in red) and have been analysed,
- Understand significance of nutrient content and shifting sediment,
- Look at what options there are to the remove sediment,
- Determine consent requirements and the viability of removing sediment vs the benefit.













- Drive pipe to 500 mm and mix core for each site
- Dry matter sample is composite sample from all sites

mple Name:	Waiteti 1 18-Sep-2017 9:30 am	Waiteti 2 18-Sep-2017 9:45 am	Waiteti 3 18-Sep-2017 10:00 am	Waiteti 4 18-Sep-2017 10:15 am	Waiteti 5 18-Sep-2017 10:30 am
ab Number:	1845257.1	1845257.2	1845257.3	1845257.4	1845257.5
mg/kg dry wt	198	138	104	176	155
g/100g dry wt	< <mark>0.0</mark> 5	< 0.05	< 0.05	< <mark>0.0</mark> 5	< 0.05
mple Name:	Composite of Waiteti 1, Waiteti 2, Waiteti 3, Waiteti 4 & Waiteti 5				
ab Number:	1845257.6				
g/100g as rcvd	71	-	-	-	-
	ab Number: mg/kg dry wt g/100g dry wt mple Name: .ab Number:	18-Sep-2017 9:30 am .ab Number: 1845257.1 mg/kg dry wt 198 g/100g dry wt < 0.05 mple Name: Composite of Waiteti 1, Waiteti 2, Waiteti 3, Waiteti 5 .ab Number:	18-Sep-2017 9:30 am 18-Sep-2017 9:45 am ab Number: 1845257.1 1845257.1 1845257.2 mg/kg dry wt 198 g/100g dry wt < 0.05 composite of Waiteti 1, Waiteti 2, Waiteti 3, Waiteti 4 & Waiteti 5 1845257.6	18-Sep-2017 9:30 am 18-Sep-2017 9:45 am 18-Sep-2017 10:00 am ab Number: 1845257.1 1845257.2 1845257.3 mg/kg dry wt 198 138 104 g/100g dry wt < 0.05 < 0.05 < 0.05 mple Name: Composite of Waiteti 1, Waiteti 2, Waiteti 3, Waiteti 4 & Waiteti 5 Waiteti 5 Lease ab Number: 1845257.6	18-Sep-2017 9:30 am 18-Sep-2017 9:45 am 18-Sep-2017 10:00 am 18-Sep-2017 10:15 am ab Number: 1845257.1 1845257.2 1845257.3 1845257.4 mg/kg dry wt 198 138 104 176 g/100g dry wt < 0.05

Size and depth of the sediment slug has been mapped to determine how much material to removed (approximately 9,000 m2 in area and 3,350 m3),

Rough #'s

- Ave TRP = 154.2 mg/kg dry wt
- Wet density of sediment 0.96-1.5 (t/m3)???
- 71% dry weight, dry density 0.68-1.07 (t/m3)

Weight dry material

3350 m3 x (0.68-1.07) = 2278 – 3584 t

<u>Kg TRP in sediment slug</u> 351 – 553 kg TRP

Where to from here?