

Parapara catchment monitoring 2009-2010

Presentation to the Doubtless Bay Working Group March 2014



Receiving environment monitoring 2009-2010

- Weekly monitoring between April 2009 to March 2010
- 9 sites: 4 upstream; 5 downstream
- Water quality tested for:
 - Indicator bacteria;
 - Ammonia;
 - Dissolved oxygen;
 - Biological oxygen demand.



Sample sites



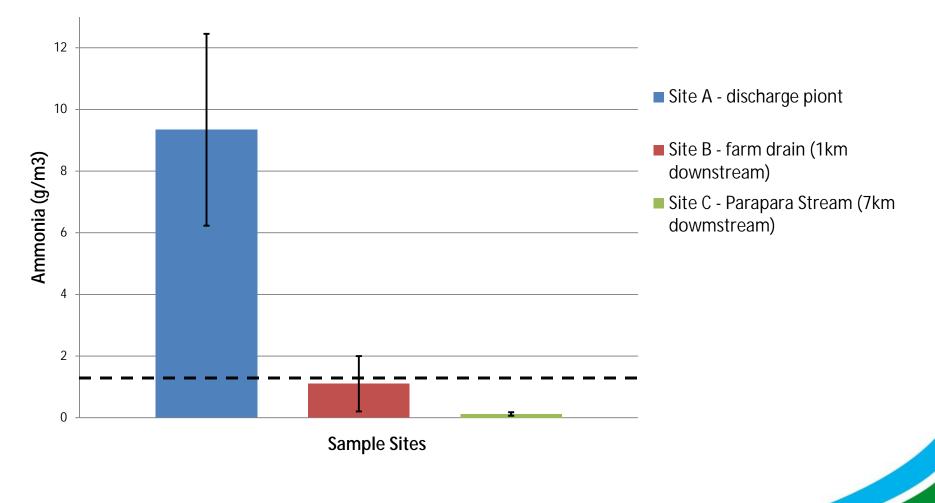


Results

- Results presented today:
 - 3 upstream and 3 downstream sites
 - Average ammonia, DO and *E.coli*
 - Error bars represented confidence intervals at 99% (or 90% the case of *E.coli*); that is, the level of confidence that the average will be within a certain range.
 - Dashed line represents proposed national bottom line.

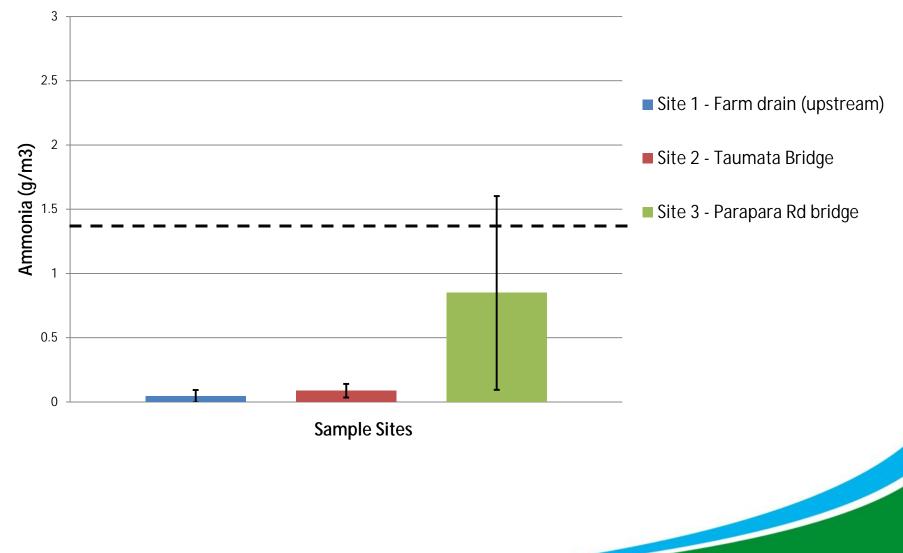


Average Ammonia (downstream sites)





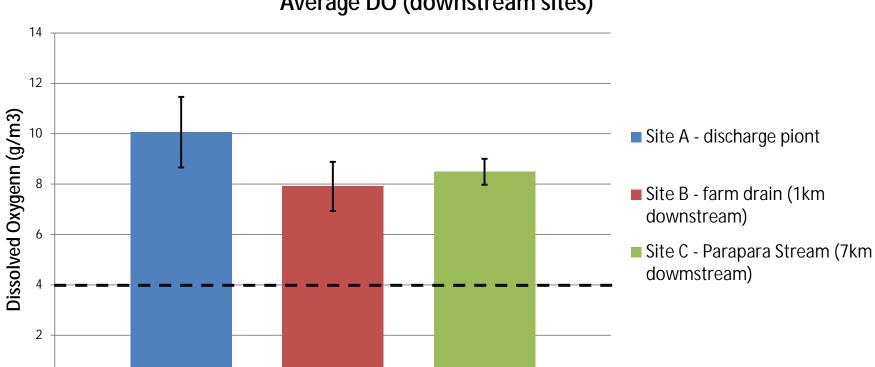
Average Ammonia (upstream sites)





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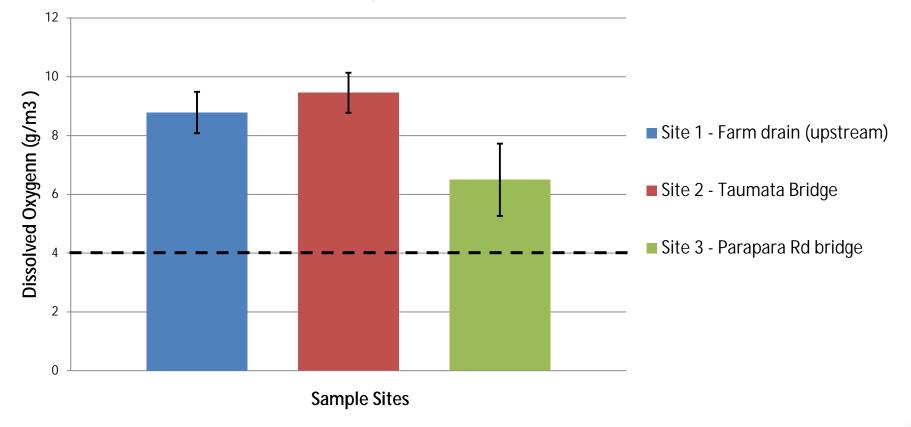


Average DO (downstream sites)

Sample Sites

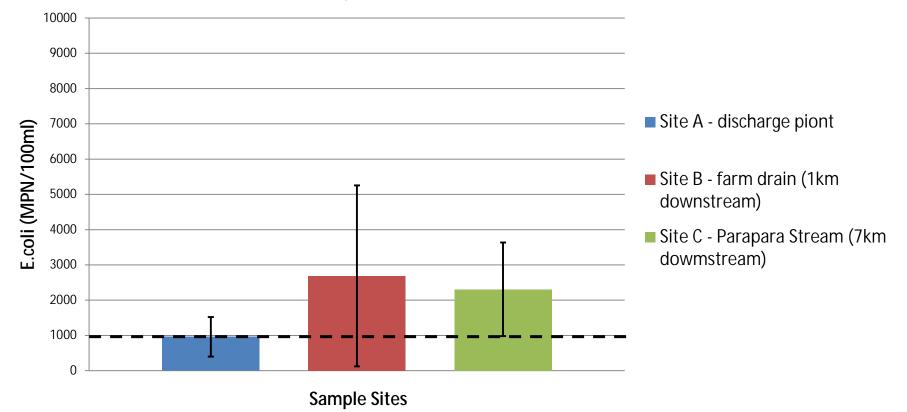


Average DO (upstream Sites)



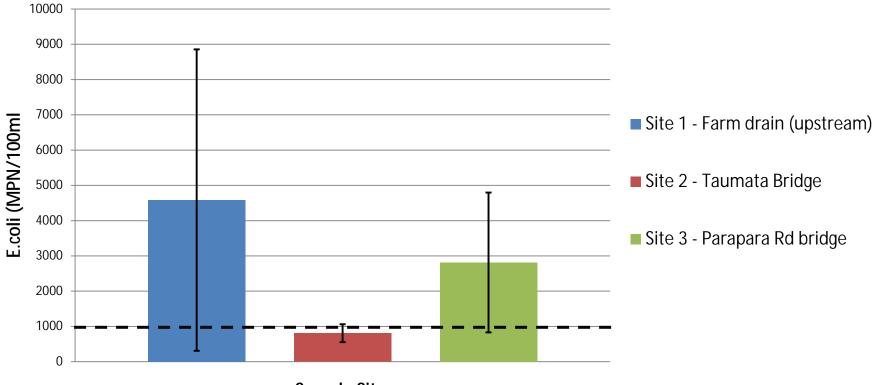


Average E.coli (downstream sites)





Average E.coli (upstream sites)



Sample Sites



Summary

- Ammonia at discharge much higher than proposed bottom line.
- Ammonia 1km downstream is much lower than discharge but can at times exceed bottom line; linked with dilution.
- Dissolved oxygen is not an issue
- Indicator bacteria results suggest surrounding land use is a major source of faecal contamination.