

From: Robert Rose
Sent: Monday, 22 May 2023 10:56 am
To: Wendy Thompson
Subject: FW: Pukepuke gamebird data
Attachments: Pukepuke Lagoon Easement 2001.pdf

Morning

The copy on file has every second page blank so I re scanned a copy (see attached)

The bird numbers came up in March last year. As you can see below fish and game collect this information and will provide this for no charge.

In relation to the monitoring, we have to undertake some of it but not all of the monitoring quoted.

- Weed monitoring – annually, the concessionaire shall take photos of the margins, quote indicates twice a year.
- Eel monitoring – On an annual basis the Concessionaire shall contact Naka Taiaroa on an annual basis to identify the quantities of eel, the ease by which they are caught and estimations on if the population is increasing or decreasing
- The concessionaire shall obtain swan numbers from fish and game annually. The quote has 2 times a year. The information is collected by fish and game
- Water levels shall be collected five times a year from two staff gauges
- The concessionaire shall arrange for Landcorpe Farming to record periods of inundation by taking photos at set points.

Not required

Bird survey – Information obtained from Fish and Game

Surrounding land inundation, Landcorp provide evidence of inundation by taking photos

Required

Weed survey but only once per year

Water recording of two gauges five times a year

Eel monitoring data annually – This might be the fish survey

Reporting – Once per year

The Hapu that is meant to provide the Eel number information is Naka Taiaroa as they are the Kaitiaki for Lake Pukepuke lagoon

I think we should undertake a site visit as the weed surveys and taking measurements of the water levels is not difficult. If we did that all we would need to do is get Naka Taiaroa to put eel nets out

once a year to record the numbers.

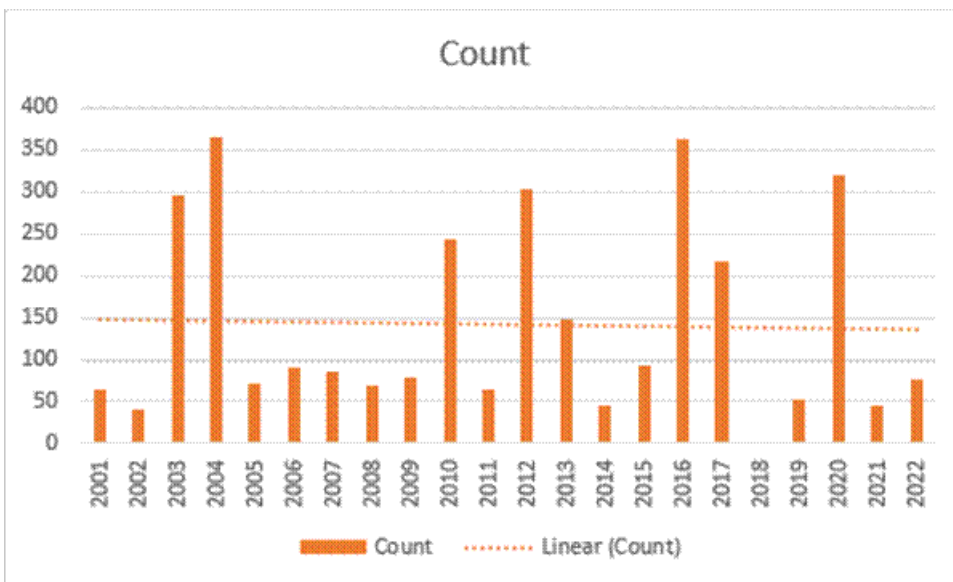
From: Robert Rose <>

Sent: Wednesday, 30 March 2022 1:43 pm

To: Andrew van Bussel <Andrew.VanBussel@mdc.govt.nz>; Dave Flintoff <Dave.Flintoff@mdc.govt.nz>

Subject: FW: Pukepuke gamebird data

Do we have a specific place to save this information. Bird numbers are remaining relatively stable. It would be useful to know when the weir went in. They did not get a count in 2018 which drags the trend down. If anything the spikes are more frequent after 2010.



From: Matt Kavermann <mkavermann@fishandgame.org.nz>

Sent: Wednesday, 30 March 2022 12:55 pm

To: Robert Rose <Robert.Rose@mdc.govt.nz>

Cc: Ami Coughlan <acoughlan@fishandgame.org.nz>

Subject: Pukepuke gamebird data

Kia ora Robert

We complete annual kuruwhengi/shoveller duck (*Anas rhynchos*) counts each year in August – data for Pukepuke is below (with expected limitations for sampling/observations).

2001	64
2001	40
2002	296
2003	365
2004	72
2005	90

2006	85
2007	69
2008	78
2009	243
2010	65
2011	302
2012	148
2013	44
2014	92
2015	363
2016	217
2017	0
2018	52
2019	320
2020	45
2021	77

There may be useful information through the ebird directory as well - <https://ebird.org/home> - which is widely used by bird watching enthusiasts.

Happy to have a chat about other data we might have in the depths of our databases as well.

I have also cc'd in Ami, who will be your first port of call for the waste water discharge at the fielding plant,

Matt

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