

ORDINARY MEETING

OF

STRATEGY AND POLICY COMMITTEE

MINUTES

Time: 9:30am
Date: Thursday, 22 October 2020
Venue: Ngake (16.09)
Level 16, Tahiwī
113 The Terrace
Wellington

PRESENT

Mayor Foster
Councillor Condie
Councillor Day (Chair)
Councillor Fitzsimons
Councillor Foon
Deputy Mayor Free
Councillor Matthews
Councillor O'Neill
Councillor Pannett
Councillor Paul
Councillor Rush
Councillor Sparrow
Councillor Woolf
Councillor Young

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1. Meeting Conduct

1.1 Karakia

The Chairperson declared the meeting open at 9:31 am and invited members to stand and read the following karakia to open the meeting.

**Whakataka te hau ki te uru,
Whakataka te hau ki te tonga.
Kia mākinakina ki uta,
Kia mātaratara ki tai.
E hī ake ana te atākura.
He tio, he huka, he hauhū.
Tihei Mauri Ora!**

Cease oh winds of the west
and of the south
Let the bracing breezes flow,
over the land and the sea.
Let the red-tipped dawn come
with a sharpened edge, a touch of frost,
a promise of a glorious day

1.2 Apologies

Moved Councillor Day, seconded Deputy Mayor Free, the following motion

Resolved

That the Strategy and Policy Committee:

1. Accept the apologies received from:
 - Councillor Calvert for absence due to Council business
 - Mayor Foster for lateness due to Council business
 - Councillor Pannett for lateness

Carried

1.3 Conflict of Interest Declarations

No conflicts of interest were declared.

1.4 Confirmation of Minutes

Moved Councillor Day, seconded Councillor Matthews, the following motion

Resolved

That the Strategy and Policy Committee:

1. Approve the minutes of the Strategy and Policy Committee Meeting held on 21 October 2020, having been circulated, that they be taken as read and confirmed as an accurate record of that meeting.

Carried

1.5 Items not on the Agenda

There were no items that were not on the agenda.

1.6 Public Participation

1.6.1 Wellington Chinese Garden Society

The Wellington Chinese Garden Society presented Wellington City Council with a cheque for NZD 1,000,000 as the society's confirmation of its commitment to the Wellington's Garden of Beneficence.

1.6.2 DCM

Representing DCM, Natalia Cleland spoke about DCM's services towards ending homelessness.

1.6.3 Madon Applied Sciences LLP

Representing Madon Applied Sciences LLP, Harmaan Madon spoke to item 3.1 Sewage Sludge Minimisation.

1.6.4 The Rubbish Trip

Representing The Rubbish Trip, Hannah Blumhardt and Liam Prince spoke to item 3.1 Sewage Sludge Minimisation.

1.6.5 Owhiro Bay Residents Association

Representing Owhiro Bay Residents Association, Angela Wilson and Ali Forrest spoke to item 3.1 Sewage Sludge Minimisation.

(Councillor Pannett joined the meeting at 9:52 am)

Tabled items at public participation

Attachments

- 1 Madon Applied Sciences LLP
- 2 The Rubbish Trip
- 3 Owhiro Bay Residents Association

2. Petitions

2.1 E-petition: Reduce Motorcycle Theft

Moved Councillor Condie, seconded Councillor Fitzsimons, the following motion

Resolved

That the Strategy and Policy Committee:

1. Receive the information and thank the petitioner.

Carried unanimously

Secretarial note: Nick Johnston spoke to his petition.

The meeting adjourned at 10:37 am and reconvened at 10:55 am with the following members present: Councillor Condie, Councillor Day, Councillor Fitzsimons, Councillor Foon, Deputy Mayor Free, Councillor Matthews, Councillor O'Neill, Councillor Pannett, Councillor Paul, Councillor Rush, Councillor Sparrow, Councillor Woolf and Councillor Young

3. General Business

3.1 Sewage Sludge Minimisation

Moved Councillor Rush, seconded Councillor Foon, the following motion

Resolved

That the Strategy and Policy Committee:

1. Receive the information.
2. Note that the preferred option is estimated at \$185m, which is a substantial increase from the placeholder in the 2018 LTP of \$30m.
3. Note that officers will present these costs alongside other investment options during the Long Term Plan process to enable Councillors to make strategic choices.
4. Note that officers intend to commission an independent review of WWL's advice.
5. Note that officers will provide further advice on engagement and consultation, particularly with local communities.
6. ~~Note the relationship to the future of the Southern Landfill.~~ Note the interdependency of sludge with the operation of the Southern Landfill, and that significant waste minimisation, or scaling down of the Southern Landfill, cannot be effected until the interdependency is uncoupled.
7. Note that as part of preparing a detailed business case, Wellington Water Limited and officers will arrange for a workshop with Councillors prior to the end of 2020 that will

include:

- a. A cost benefit analysis of the preferred option, with comparison to the next two preferred options and the status quo;
 - b. Sensitivity analysis of the phased versus non-phased investment of the preferred option;
 - c. Sensitivity analysis around the price of carbon;
 - d. Sensitivity analysis around sludge volumes based on Planning for Growth assumptions;
 - e. Inflation adjusted costs;
 - f. Prospects for partnering with third parties, such as Mana Whenua, the private sector, or the Crown;
 - g. Advice on the opportunities and challenges of adopting de-centralised waste-water systems, both now and in the future.
8. Note that officers will proactively release the Sludge Minimisation Concept Design Report – September 2020.
9. Note that officers will provide a report on the impacts of the reduction and eventual removal of sludge and life of the landfill in early 2021

A division was called for, voting on which was as follows:

For:

Mayor Foster
Councillor Condie
Councillor Day (Chair)
Councillor Fitzsimons
Councillor Foon
Deputy Mayor Free
Councillor Matthews
Councillor O'Neill
Councillor Pannett
Councillor Paul
Councillor Rush
Councillor Sparrow
Councillor Woolf
Councillor Young

Against:

None

Absent:

Councillor Calvert

Majority Vote: 14:0

Carried

Secretarial note: Councillor Rush moved the original motion with amendments (in agreement with officers) as marked in red.
(Mayor Foster joined the meeting at 11:03 am)

3.2 Draft Cemeteries Management Plan 2020

Moved Councillor Fitzsimons, seconded Councillor O'Neill, the following motion

Resolved

That the Strategy and Policy Committee:

1. Receive the information.
2. Approve the draft *Cemeteries Management Plan, Mākara, Karori and Tawa Cemeteries* (Attachment 2) **with the following amendments**, and agree that it will be released for public consultation pursuant to section 82 of the Local Government Act 2002:
 - **Amend section 3.2.2.2 by adding the following new policy as the first of the policies here:**
 1. All existing interments are regarded as being in perpetuity unless the deed to the plot says differently.
 - **Amend section 3.2.2.2, policy 4, as follows**
 - (4) Continue to sell pre-purchased plots, subject to the right of burial being limited to 50 years from the date of purchase if the plot remains unused.
 - **Amend Section 3.2.2.2 by amending Action (a) and splitting into two actions as follows:**
 - a) ~~Offer, as a trial over the next ten years,~~ Investigate the option of buying non-perpetual rights of interment to burial and ash plots ~~subject to investigating and developing and develop proposed~~ terms and conditions, including:
 - The period of non-perpetual right and appropriate location
 - Options on how the disinterred remains will be treated (e.g. cremated, bones held in an ossuary (see Appendix I, Glossary))
 - Options to offer ashes, headstones and plaques back to families and what will happen if families do not want them or cannot be traced
 - Options for families to re-purchase the right of interment for a further non-perpetual period
 - Options to offer re-purchase for re-use of the plot to family members first
 - The requirements for interment records, including photographic, to be kept permanently
 - Developing an application form and a deed of right of interment for re-useable plots.
 - b) Subject to Council approval of the proposed terms and conditions, offer the option to those buying a new burial or ash plot, of choosing a non-perpetual

right of interment, as a trial until the next review of this management plan,

• **Amend the explanation under 3.2.2.2 as follows:**

There are issues associated with perpetual burial rights. Although the purchaser or descendants are responsible for the plot’s maintenance, most families eventually cease to maintain the graves. Yet, for the price of the one-off fee, the Council remains responsible for maintaining access to the grave in perpetuity (as required by statute) and gradually takes on a role in maintaining the grave as time passes (section 3.2.2.4). Inevitably, cemeteries containing plots in perpetuity become full and more land must be found. Suitable land can be difficult to find (see section 3.1.2.2). So, to increase future capacity and more sustainably manage cemetery land over time, the Council is proposing to investigate an option whereby people can purchase a plot knowing that it will be re-used after a specified period. In a small recent survey about 41% of respondents strongly or partially supported the idea, which indicates that there would be uptake of such plots. Overseas examples of non-perpetual rights of interment will be researched in developing proposed terms and conditions. All existing interments are regarded as being in perpetuity unless the deed to the plot says differently.

• **Amend Section 6, Implementation to reflect the above changes as follows:**

Section	Action
3.2 Customer service	
a.	<u>Investigate the option of buying non-perpetual rights of interment to burial and ash plots and develop proposed terms and conditions.</u>
b.	<u>Subject to Council approval of the proposed terms and conditions, offer, as a trial until the next review of this management plan, the option of buying non-perpetual rights of interment to burial and ash plots.</u>

• **Amend policy 3.2.2.3 (4) (b) to be consistent with Rule 5.3.2, as follows:**

4. Allow tributes and decorations to be placed on the headstone and associated concrete beam of a gravesite in a lawn cemetery area (see Appendix I, Glossary) and on non-lawn gravesites at Karori and Tawa Cemeteries, provided they do not:
 - a. encroach on or obstruct access to any other plot or communal area;
 - b. ~~require power supplied by the cemetery or from batteries~~ electricity, whether from cemetery power supply system, battery or solar sources;
 - c. disturb the tranquillity of the cemetery environs or cause offence to others.

• **Amend policy 3.3.3.3 (1) as follows:**

1. Permit the personalised design of monuments, including the placement of QR codes, within

the Council's size specifications and the specifications of the New Zealand Standard for Headstones and Cemetery Monuments.

- **Amend 4.3.5 Action (a) as follows:**

- a) Investigate, in consultation with the funeral sector and Greater Wellington Regional Council, the adequacy of the existing transport service to and from Mākara Cemetery, awareness of the service, and options for an increased service if required.
3. Delegate to the Chief Executive Officer and Community Well-Being Portfolio Leader the authority to approve minor wording, formatting and content changes as agreed by the Strategy and Policy Committee.
4. Note that consultation will be open for a period of five weeks. On completion of this period, submissions will be heard by the Strategy and Policy Committee. Officers will then prepare a final *Cemeteries Management Plan, Mākara, Karori and Tawa Cemeteries* for the Strategy and Policy Committee to consider in May 2021.

Carried unanimously

Secretarial note: Councillor Fitzsimons moved the original motion with amendments (in agreement with officers) as marked in red.

4. Public Excluded

Moved Councillor Day, seconded Councillor Sparrow, the following motion

Resolved

That the Strategy and Policy Committee:

1. Pursuant to the provisions of the Local Government Official Information and Meetings Act 1987, exclude the public from the following part of the proceedings of this meeting namely:

General subject of the matter to be considered	Reasons for passing this resolution in relation to each matter	Ground(s) under section 48(1) for the passing of this resolution
4.1 Proposed Land Acquisition	<p>7(2)(b)(ii) The withholding of the information is necessary to protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information.</p> <p>7(2)(h) The withholding of the information is necessary to enable the local authority to carry out, without prejudice or disadvantage, commercial activities.</p>	<p>s48(1)(a) That the public conduct of this item would be likely to result in the disclosure of information for which good reason for withholding would exist under Section 7.</p>

Carried unanimously

The meeting went into public excluded session at 11:37 am.

The meeting returned from public excluded session and concluded at 11:47 am with the reading of the following karakia:

Unuhia, unuhia, unuhia ki te uru tapu nui	Draw on, draw on
Kia wātea, kia māmā, te ngākau, te tinana, te wairua	Draw on the supreme sacredness To clear, to free the heart, the body and the spirit of mankind
I te ara takatū	
Koia rā e Rongo, whakairia ake ki runga	Oh Rongo, above (symbol of peace)
Kia wātea, kia wātea	Let this all be done in unity
Āe rā, kua wātea!	

Authenticated: _____
Chair

ORDINARY MEETING

OF

STRATEGY AND POLICY COMMITTEE

MINUTE ITEM ATTACHMENTS

Time: 9:30am
Date: Thursday, 22 October 2020
Venue: Ngake (16.09)
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Wellington

Business

Page No.

Tabled items at public participation

- | | |
|-------------------------------------|----|
| 1. Madon Applied Sciences LLP | 2 |
| 2. The Rubbish Trip | 11 |
| 3. Owhiro Bay Residents Association | 21 |



Creating Value From Waste

Resource recovery from sewage sludge

WCC STRATEGY & POLICY COMMITTEE

22 Oct 2020

madon.in





About Us

- Edmund Hillary Fellowship (Cohort 6) in Feb 2020
- NDA with VUW May 2020
- Patent published in Aug 2019
- MoU with AgResearch Mar 2018
- Founded in Feb 2017



Harmaan Madon
Founding Partner



Ujval Nanavati
Partner & CFO



Dr Nitant Mate
Technical Advisor

Benefits to WCC

- Improved effectiveness

Current Solutions Minimise up to 50% Waste, Madon Applied Sciences reduces 100% of waste

- Better for the environment

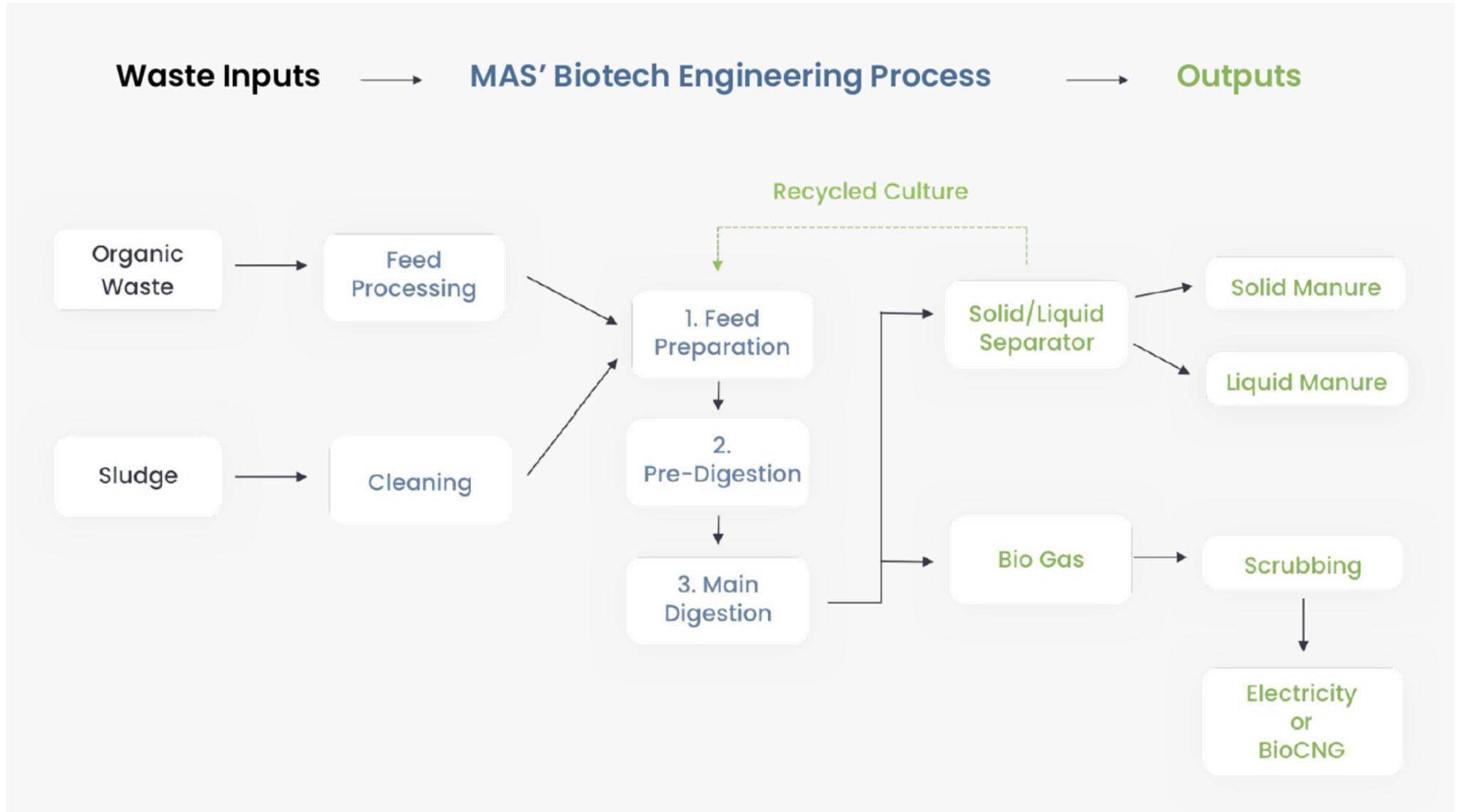
Recycles nutrients – supplementing / substituting chemical fertilisers. Low odour, compact,
Zero organic waste to landfill, zero liquid discharge

- Faster ROI

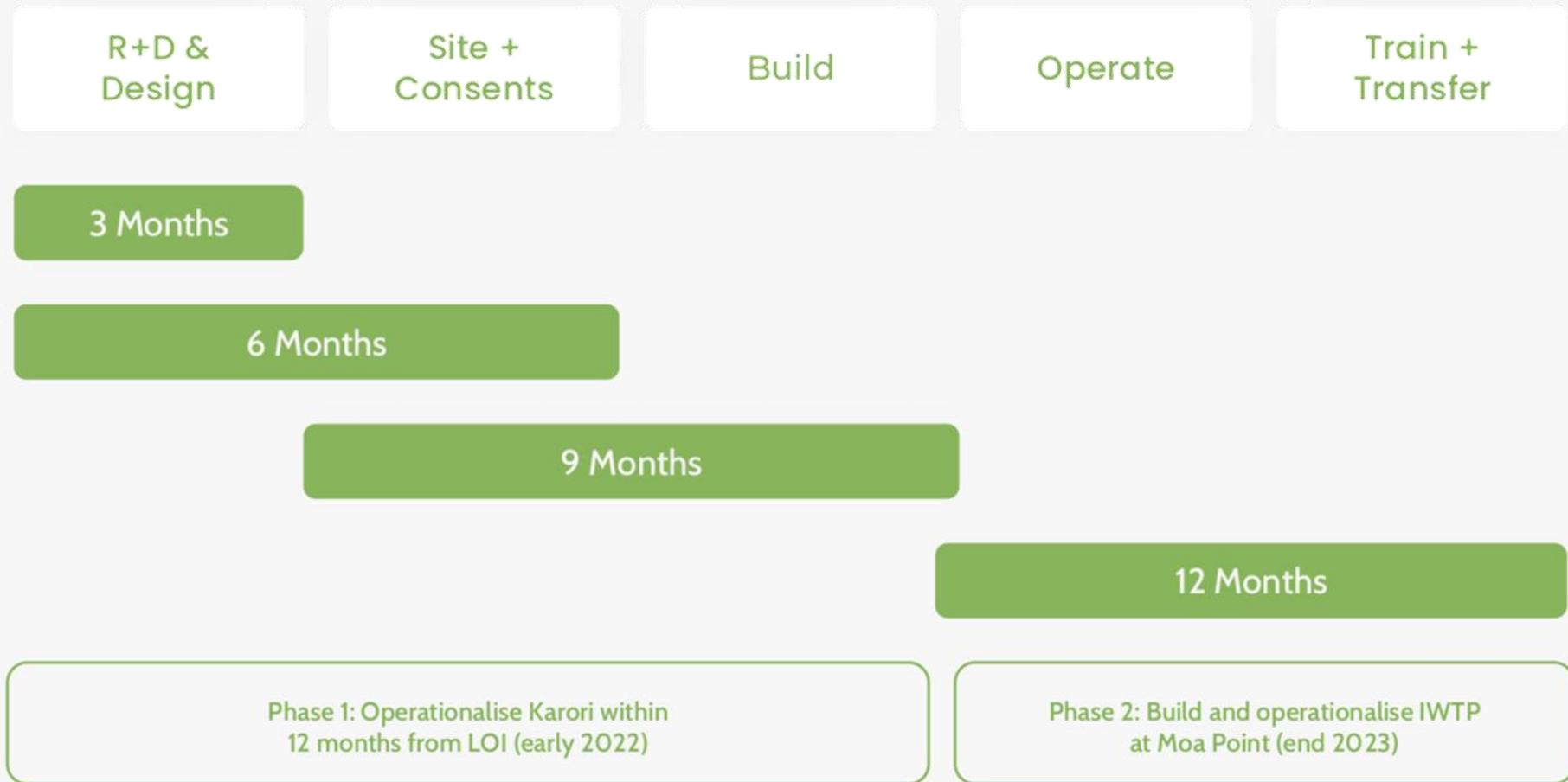
Reduced capital spend with 80% reduced cost structure aligned to existing planned spend & easily scalable, potential for co-founding from EECA & MFE for Phase 1.

- Improve Social Impact

Aligned to Zero Carbon Bill, positions Wellington as globally innovative, creates green jobs & earns ETS credit + aligned to Manawhenua values



Timeline



Forecast Inputs & Outputs

Metric	Phase 1: Karori	Phase 2: Moa Point
Input Sludge volume	~2.5 Tonnes /Day	~40 Tonnes /Day
CapEx NZD	\$0.8 – 1M	\$25 – 35M
OpEx Per Annum (NZD)	\$200k – 250k	\$4 – 5M
Solids Destruction	55 - 60 %	55 - 60 %
Energy Recovery	15 – 18 kW load sustained	600 – 700 kW load sustained (Fully charge 480 EV's a day)
Nutrient Recovery	350 kgs/day approx	6 – 6.5 Tonnes Per Day
ETS Offset	~ 500 tonnes of CO2e/year	~ 10,000 tonnes of CO2e/year
Land required	~ 0.5 acres	~ 3.5 acres
Carbon payback	3 years	3 years

Additional Considerations

Is the the land cost-free for duration of operations?

Determine Preferred Operational structure

1. EPC = Engineering, Procurement & Construction
2. HAM = Hybrid Annuity Model
3. PPP = Public-Private Partnership

Operational Structure Impacts the following...

1. Tipping fee + landfill levy
2. Right to sell ETS offset
3. Right to sell energy (WCC has right of first refusal)

Commercial Process

1. Letter of Intent?
2. Phased approach starting with Karori
3. Commercial contract to manage rest of sludge in Wellington



Thank you

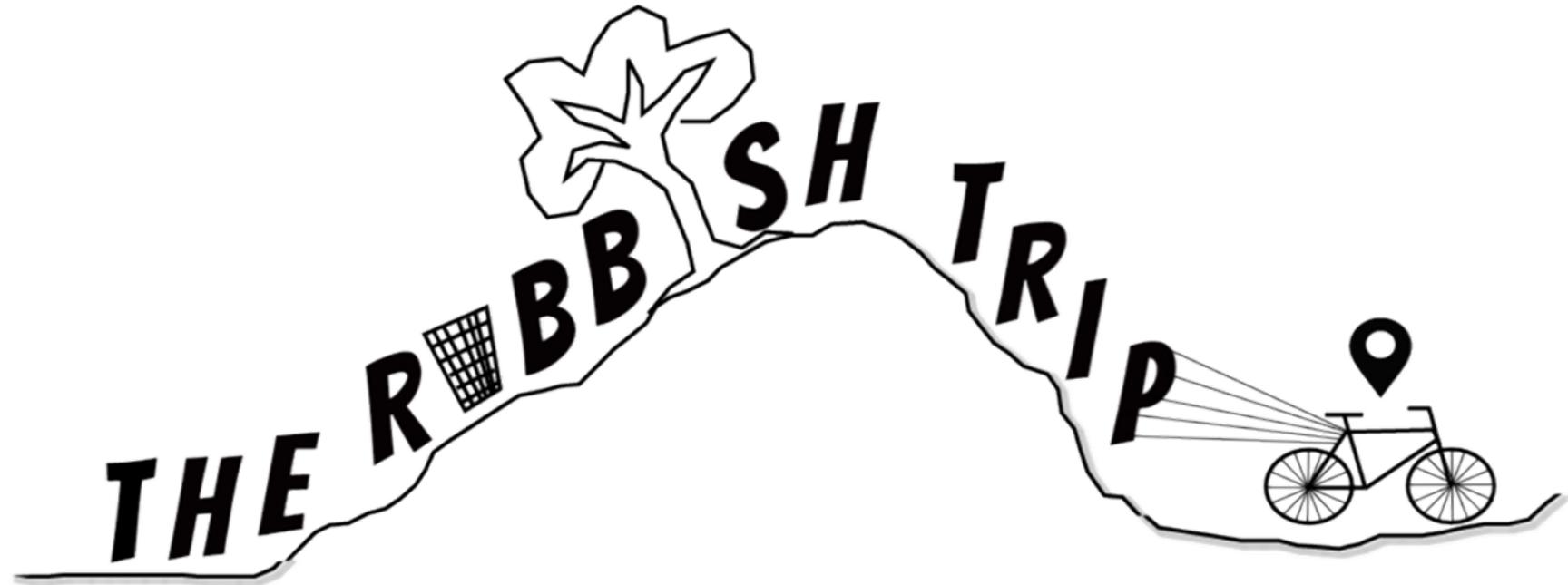
Questions.

harmaan@madon.in

Potential Stakeholders & Partners

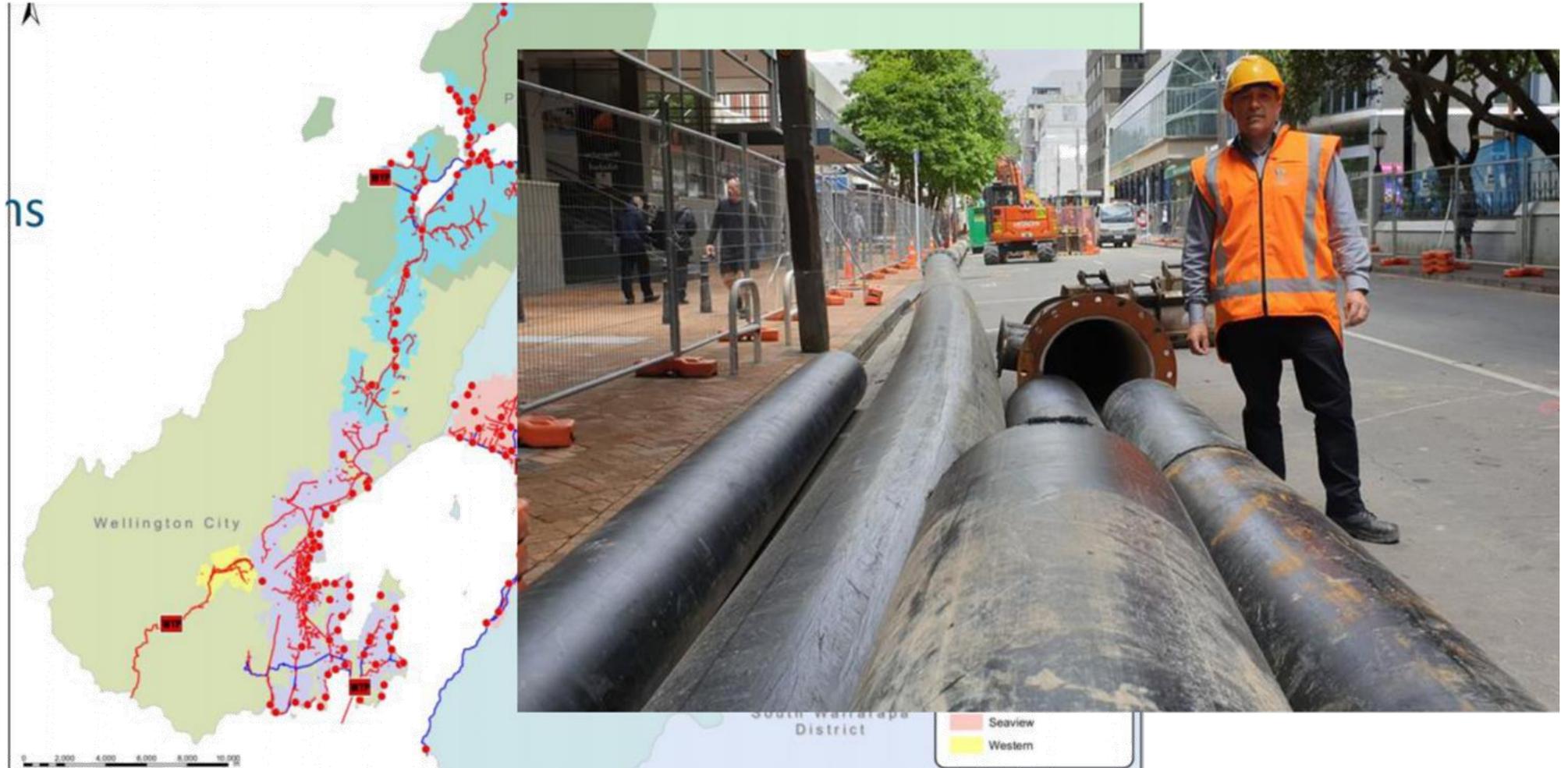
	Lab R&D	DESIGN	CONSENT	BUILD	FINANCE	OPERATE	TRAIN	TRANSFER
Wellington City Council			✓		✓	✓	✓	✓
Wellington Water			✓		✓	✓	✓	✓
Min for Environment			✓		Grant			
EECA					Grant			
VUW	✓						✓	
Madon	✓	✓	✓	✓		✓	✓	✓

✓ Indicates potential provision of resource & specialised knowledge



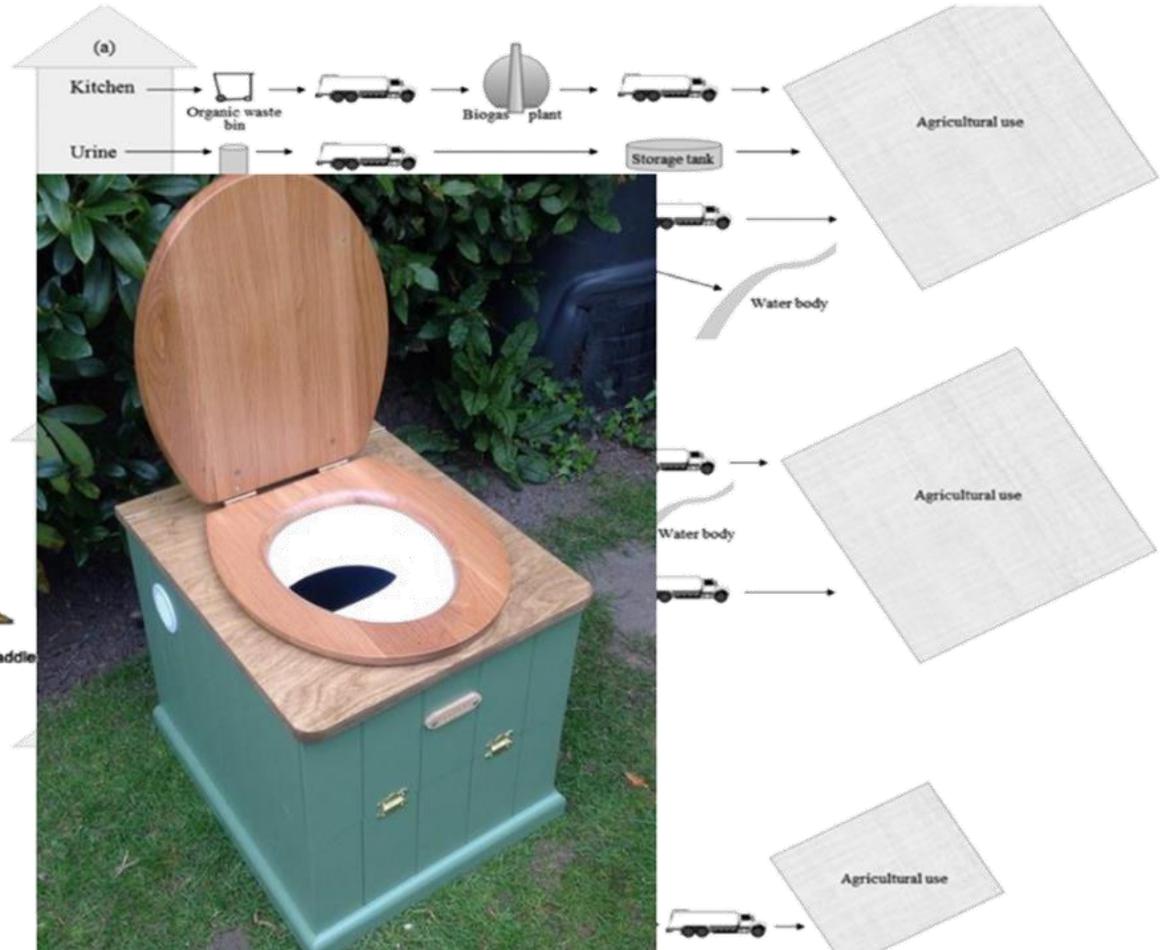
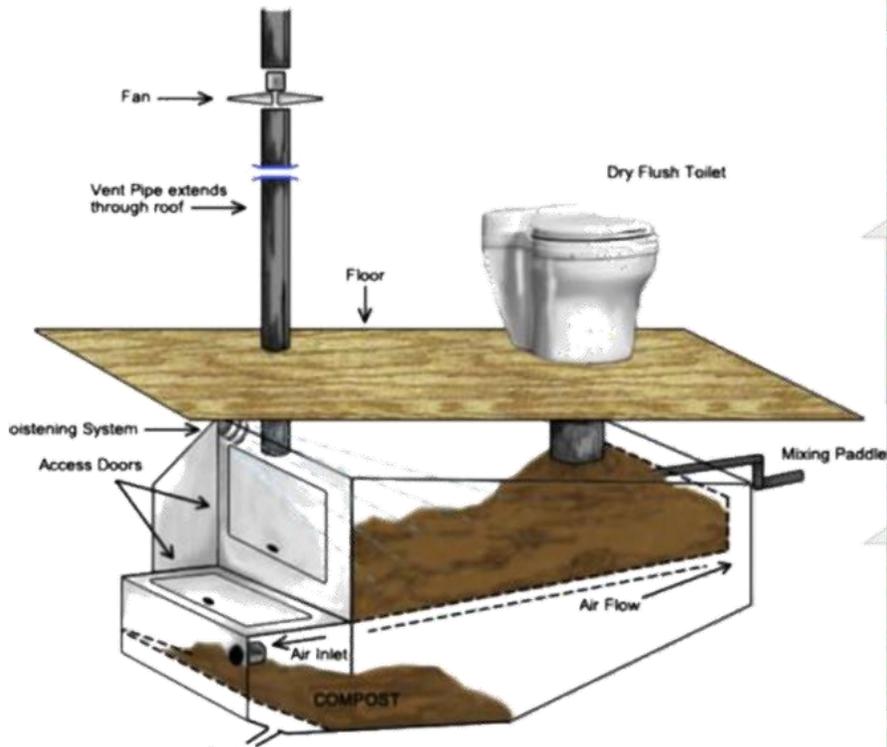
Two No-Waste Nomads Talk Trash with People

Bottom of the pipe...

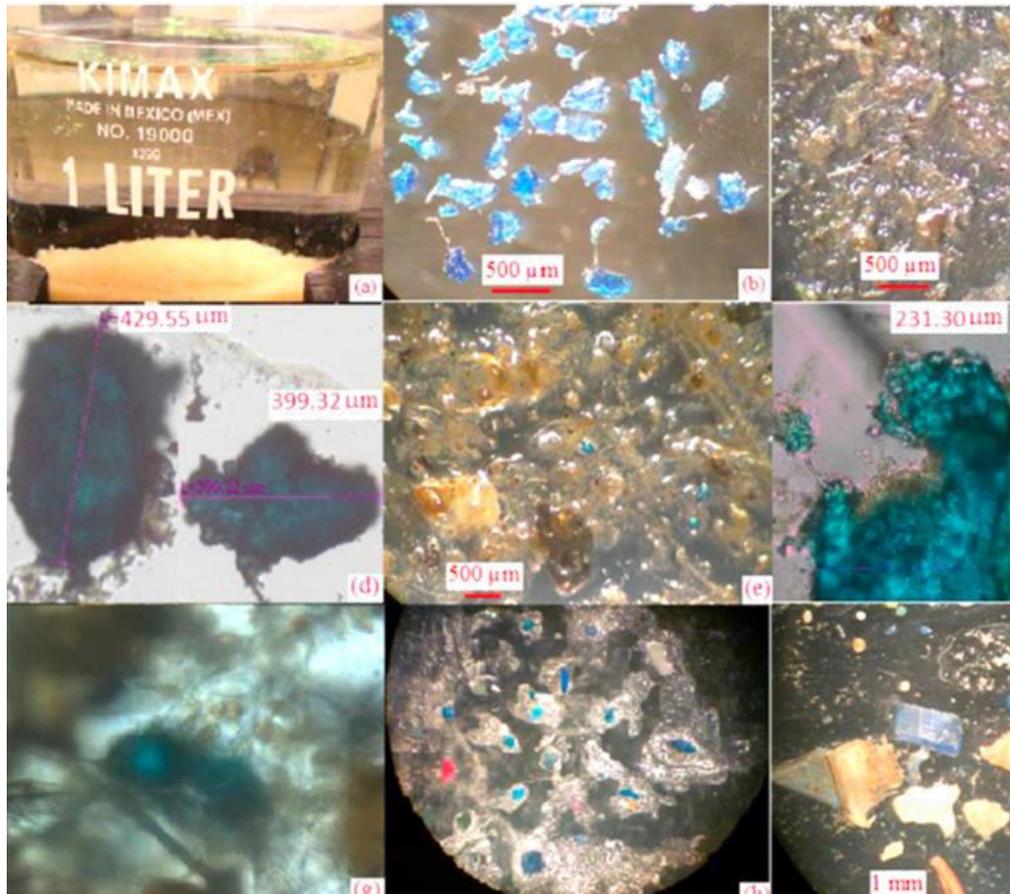


Top of the pipe

- Decentralised
- Source separation



Sludge contamination



Journals & Books    [Register](#)

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 **Waste Management**
Volume 107, 15 April 2020, Pages 252-265



Microplastics and pollutants in biosolids have contaminated agricultural soils: An analytical study and a proposal to cease the use of biosolids in farmlands and utilise them in sustainable bricks

Abbas Mohajerani   Bojana Karabatak

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<https://doi.org/10.1016/j.wasman.2020.04.021> [Get rights and content](#)

Source separation



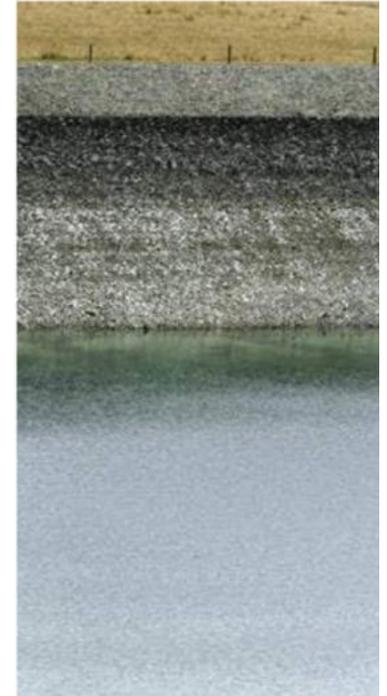
Resilience



Report on a trial of emergency compost toilets

Wellington Regional Emergency Management Office

March 2013



Cost



Benefits

- **Source separation** – uncontaminated excreta
- **Resilience** – decentralised, off-grid, waterless
- **Cost** – simpler, more resilient infrastructure

Barriers

- **Building Code** – mandatory connection to water mains
- **Public Health** – risk management and tikanga
- **Perception** – sounds disgusting...
- **WRC PNRP** – permitted activity, but stays on-site

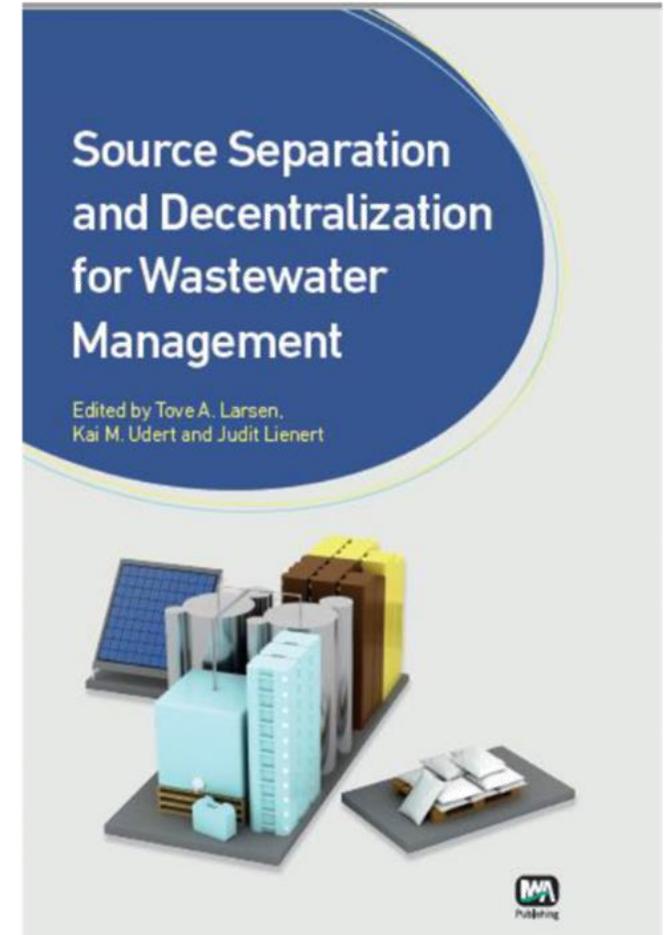
Pilot project – Feasibility study?



Report on a trial of emergency compost toilets

Wellington Regional Emergency Management Office

March 2013





ORAL SUBMISSION



ON SEWAGE SLUDGE MINIMISATION TO STRATEGY AND POLICY COMMITTEE

OWHIRO BAY RESIDENTS' ASSOCIATION

1



Overview



Ali - ORAL

What we think of the 'options paper'

- Vision
- History
- Transparency
- What we want

Angela -SLIDES

- Impact
- Sludge dumping – a 50 year temporary solution
- Option paper perpetuates system failures
- What we want
 - Leading edge sludge and waste management
 - The south coast to be celebrated and protected

Ōwhiro Bay Residents' Association



NO OTHER SUBURB SCARRED LIKE ŌWHIRO BAY



satellite view of the southern landfills

Zealandia

Southern Landfill

Taputeranga Marine Reserve



3



SEWAGE SLUDGE IN LANDFILL WAS PROMISED TO BE A TEMPORARY MEASURE THAT LOOKS TO REMAIN FOR 50 YEARS



What currently happens

- Currently sewage sludge is pumped 10 kilometres to the landfill, with waste water pumped the entire distance back.
- The original plan was to generate compost. This was mothballed a few years after commencement.
- Wellington City has limited commitment to waste minimisation.
- The closure of other landfills in the wider Wellington Region, means that Southern Landfill will become an increasing the regional centre for waste.

Why this is a failure of systems

- There was no reason to pump the sewage across the City other than Ōwhiro Bay was an easier target for the environmental impact than Moa Point at the time of the decision.
- The original plan was to turn the sludge to compost. This scheme was stopped in 2009 'for a few months' while new technologies were developed. The entire plant capability is currently moth-balled on site.
- A challenge with the compost was that it did not sell in sufficient quantities. However, if the Council had chosen to use it for their own gardens it would have absorbed much of the production.
- The current system depends mixing rubbish with waste to mix with the sewage sludge at a 1:4 ratio. This means that Council will need to increase waste just to off-set population growth.



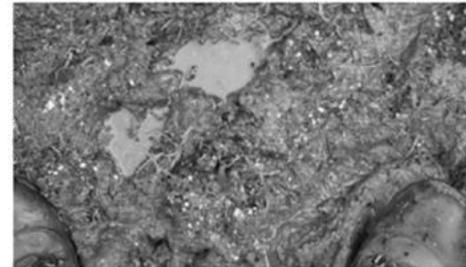
E-PETITION



Significant community interest

- stop burying sewage sludge at the landfill
- a concrete regional action plan
- timeline for new treatment plants

Limit Wellington's Southern Landfill and stop burying sewage there!



📍 Owhiro Bay Residents Association Owhiro Bay started this petition to Wellington City Council and 1 other

381 have signed. Let's get to 500!

Progress bar: 381 / 500

First name:

Last name:

Email:

Display my name and comment on this petition

[Sign this petition](#)

By signing, you accept Change.org's [Terms of Service](#) and [Privacy Policy](#), and agree to receive occasional emails about campaigns on Change.org. You can unsubscribe at any time.

381 signatures

OPTION PAPER PERPETUATES SYSTEM FAILURES AND DOES NOT ADDRESS BASIC NEEDS



The process is wrong

- Elephants not addressed
 - Sewage
 - Landfill remains a Sewage Sludge Cemetery
 - Proposal is a retrograde step in the eyes of many residents
 - Funding
 - Waste minimisation
 - Innovation
 - What happens when sludge exceeds permitted amount
 - What happens to Landfill Land afterwards

It perpetuates current thinking. Waste is not seen as a resource, it is seen as something to be disposed off

Ōwhiro Bay residents are concerned

- Preferred option not options is presented
 - 16 mentioned, 9 presented, 1 in executive summary detail
- Robust and transparent process
 - Co designed
 - Whole of system approach that is joined up
 - Landfill extension consultation hidden within Long Term Plan process
- Sewage solution pumping and dumping touted as a temporary fix.
 - So far 12 years temporary, looking like 50 years
- No mention
 - Future proofing
 - Circular economy
 - Sustainability – environment, economy

We are concerned with the Landfill and need to know the implications. All we can do is read between the lines

● ● ● **ŌWHIRO BAY'S CONTAMINATION COMPOUNDED BY 7 FAILURES TO MEET BASIC OBLIGATIONS BY GOVERNMENT AGENCIES**



Agency		Failure
Wellington City Council	1	Granting building consents for a subdivisions which puts sewage into waste water in breach of its obligations as a Building Consent Authority.
	2	Developing an Annual Plan which is dependent on granting resource consents for the Landfill without any measures of contingent liability
	3	Planning to pump sewage into landfill for 50 years when the original business case said that this was a temporary measure to 'last months'.
Regional Council	4	Complete failure to enforce resource consents for the landfill, while acknowledging that consents are not meeting standards.
DoC	5	Failure to monitor resource consents and drainage of storm water into Marine Reserve, based on 'lost' systems.
Wellington Water	6	Asset management processes which by their own internal monitoring indicates that they are below basic levels of competence in 26 of the 27 measures.
	7	10 years of reporting dangerous contamination in the Ōwhiro Stream and Bay with only ad-hoc attempts to investigate and address, despite a contractual obligation to report to WCC

7



WHAT WE WANT: LEADING-EDGE PLAN FOR SLUDGE MINIMISATION AND WASTE REDUCTION



Close to leading edge sludge and waste management

- Long term solution not reliant on current infrastructure
- Leading in environmental management and recycling
- It lives with *Wellington's* brand of innovation, liveability.
- Commitment at community level
- Strategies innovative at the landfill
- Options appropriate for Wellington
- Balancing technology with practical, appropriate for scale technology.

want a fully circular resilient system that is low carbon emitting, protects our unique ecosystems

Ōwhiro Bay Residents' Association





WE WANT: THE SOUTH COAST TO BE CELEBRATED AND PROTECTED



Protect our local taonga

- Ōwhiro Stream
- Taputeranga Marine Reserve

We are the
the raw edge of wild and exciting capital city

We want to work with Council in meaningful ways to
achieve solutions that protect our unique ecosystems.



Ōwhiro Bay Residents' Association

9



THANK YOU



Owhiro Bay Residents' Association

