

INKERMAN LANDFILL COMMUNITY REFERENCE GROUP MINUTES

Meeting held at Cleanaway, Prime Road Inkerman

21st February 2019

Meeting commenced at 6.10pm

Attendance:

Alan Headon, Jillian Stewart, Garry Geuenich, Marian Lang, Tony Williams, Tom Gallasch, Terry Cundy, Lloyd Mudge, Danielle Mudge

Apologies:

Olga Ghiri, Richard Pain, Chris Parish.

Facilitator: Barbara Chappell **Minutes:** Brenton Chappell

1. Meeting Opening

1.1 An outline of the meeting purpose was provided; housekeeping items were attended to and all attendees welcomed to the meeting.

2. Minutes of Previous Meeting

2.1 Amendments - Nil

Motion: That the minutes be accepted. Moved: Alan Headon. Seconded: Marian Lang. Carried

2.2 Business Arising

2.2.1 Update Comms Chart – Tabled. To be posted on website

2.2.2 Updated EPA Licencing Process Flowchart – Tabled. To be posted on website.

Tony Williams presented the updated flowchart to the group.

Discussion Points:

- How the ILCRG Group contributes to the EPA Licencing process is now outlined in bottom right hand corner of the flowchart.
- Brief Descriptor to be added of what the EPA Licencing Process is, i.e. a legislated process; and in the case of Cleanaway – they have a licence to operate the landfill. If they need to go through a renewal process and changes in the use of the landfill are required, they must go through a licence renewal process.
- Relaxation definition to be added to the flowchart.

Action: Tony Williams to update the flowchart as per the group discussion.

2.2.3 Incident Report/Complaint Form

Discussion Points:

- The form was considered useful for documenting issues. However, it may not be readily used by community members. May be necessary for group members to make notes on the form for community members about their concerns and table at the group meetings or forward the notes to Cleanaway.
- The draft form was accepted by the group.
- It will be posted on the ILCRG web page.
- The group members can: (1) direct members of the community to the website to download a form and forward it to Cleanaway; (2) Print off hard copies and hand them out to members of the community for filling in and forwarding to Cleanaway.
- The process of seeking feedback on items such as the draft form and minutes was discussed at this point.

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Action: It was agreed that if following a request for feedback, no feedback is received by the due date then it will be considered accepted by consensus from the group.

2.2.4 EPA Landing Site – This is on hold pending work on the website. Tony will keep the group up to date with developments.

3. Cleanaway Operational Updates – Garry Geuenich

- Litter nets - due late April early May
- Auto Tarps received – through customs
- Prime Road Dust problems – Incident lodged with Council as it a road under the care and control of Council. No response received at this time. Action expected by mid-March. Complaint number on file.
- Formal letter from ILCRG to be sent to Council to express concerns.

Action: Garry to write to Council on behalf of the ILCRG to outline the need to address the dust problems for the people living along Prime Road.

3.2 EPA Representative Update

- Surveillance Camera to monitor illegal dumping in public places reported by the committee, will be provided starting 25th February.

3.3 Community Representatives Update

3.3.1 The group members attended an extra meeting on the 7th February to hear about the proposed minor design changes to the final landform so they could pass the information on to the community; and request feedback from the communities they represent on the proposed design changes.

Jill tabled a number of questions from the local community and Garry, Tom, Marian and Tony responded during the meeting as follows:

Question: Why wasn't the change to the design in the last application for change to the landfill site? People are concerned about capturing enough water to ensure the cap does not dry out and crack.

Response: The site design is reviewed for improvements on a continuous basis. The re-design is to reduce the pooling of water and reduce the infiltration of run-off from the landfill cap to the groundwater.

Question: Has lack of rainfall been considered?

Response: Capture of rainfall to the site is reasonably handled in the current circumstance. This is being monitored by professional ecologist.

Question: Will the moisture content of the waste be affected by the re-design?

Response: Dry waste is less of a problem for this site. The cap is a barrier layer of about 1.3m designed to stop penetration. Efforts to reduce the amount of food waste in landfill will reduce moisture and methane production. The rate of decomposition is not affected by the moisture content of the cap.

Question: What is the time frame for stabilisation of the landfill?

Response: Generally, 25-30 years.

Question: What are "rock-lined down chutes"?

Response: The chutes are drainage channels designed to slow flow of water to prevent erosion.

Question: How will blockages be prevented?

Response: Through the design of the down chutes.

Question: Will the air space contain landfill?

Response: Yes.

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Question: What planning change is required?

Response: No change required.

Jill provided a full list of the questions from the community members to the meeting Minute Taker. The meeting facilitator passed the questions on to Tom and Garry following the meeting and they provided written responses to all the questions on the list as follows:

1. Why does the current licence require these landfill mounds to be constructed as they are?

Cleanaway response: *The landfill mounds are features of the landform design which was approved in 1999 by the SA Government. The design is intended to simulate the rolling hills and sand-dunes in the local region. Our obligations under this planning approval are included in the site Landfill Environment Management Plan (LEMP). Compliance with the LEMP is a requirement under our EPA licence.*

2. Was/is it to do with the helping of the revegetation of the mounds? (Currently the rainfall lays in these “gullies” and then releases into the mound)

Cleanaway response: *As landfill stages are closed and capped, the EPA approves a capping design and technical specification prepared by engineering consultants engaged by Cleanaway. Cleanaway has successfully constructed phytocaps over Stages 1 and 2 of the landfill and will continue to use this capping method. Future caps and revegetation will be designed and submitted to the EPA for approval prior to works commencing. Our cap designs consider a range of factors including cap thickness, surface slope, soil types, plant species and climatic conditions.*

3. How will Cleanaway compensate for the loss of this water when addressing the revegetation of the mounds?

Cleanaway response: *There is no loss of water as a result of this design proposal, but rather the same water will be more effectively managed. As each stage approaches closure, a capping design and specification will be prepared. This design will account for factors such as cap thickness, surface slope, soil types, plant species and climatic conditions. Phytocap design is based on water balance modelling which will address any changes in cap slope and anticipated surface water drainage improvements.*

4. How does Cleanaway propose to revegetate these mounds and when?

Cleanaway response: *Mounds will be revegetated in accordance with future cap design and technical specifications. This may include use of direct seeding techniques and manual planting of recommended species. We currently anticipate the next capping event will commence in early 2023.*

5. Is the cap not designed to store and release water?

Cleanaway response: *Our existing and future caps will be phytocaps. Phytocaps, by design are intended to minimise surface water infiltration into the landfill waste mass, while retaining sufficient moisture to support vegetative growth.*

6. Any measure that results in less opportunity for rainfall to soak in, would it not be detrimental to the vegetation of the cap?

Cleanaway response: *Pooling surface water may be detrimental to cap vegetation, but also increases the risk of infiltration to the waste body. Future caps will be subject to a design process and will consider factors such as surface slope and our intended improvements to managing surface water on these areas.*

7. Has lack of rainfall and heat stress on the vegetation been considered?

Cleanaway response: *Future cap design will include assessment of climate conditions. This information will be considered in the design and modelling that will be completed.*

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What is the moisture content of the waste?

Cleanaway response: *The moisture content of the waste varies with each load. However, we are seeing less organic material within our waste streams at Inkerman. In general, organics are being removed prior to landfill due to their beneficial uses as compost, soil improver or enhancers.*

9. If rainfall reaches the base of the landfill, is the leachate drainage system not effective to capture it?

Cleanaway response: *Landfill cells are specifically designed on the assumption rainfall infiltration to the waste body is limited. Modelling is undertaken to understand the likely volumes of leachate generation (including contingency factors) which then informs the design of the leachate collection system. Our leachate collection system is adequately sized and designed to ensure the intended function of our site. Optimal surface water management techniques must be implemented when our landfill cells are capped and future cells will be designed to account for future landform changes.*

10. If rainfall water does soak into the mound and reaches the waste will this increase landfill generation of gas?

Cleanaway response: *Landfill gas generation rates are influenced by a range of factors, including moisture content of the waste. Increased moisture may increase the rate of waste degradation leading to an increase in landfill gas generation. However, excessive moisture may slow the gas generation rate due to waste saturation impacts.*

11. Would this not be a long term benefit as this is what Cleanaway is aiming for, that is to assist with the running of the Inkerman Waste Depot?

Cleanaway response: *The moisture infiltration rate will be based on future modelling and landfill cell / cap design. The EPA requires minimum engineering standards be met, which limits the amount of likely infiltration. Cleanaway will continue to engineer the design and closure of our landfill cells in accordance with EPA requirements and ensure that surface water is effectively managed to meet our design and EPA objectives. Our landfill gas extraction program will continue to be developed to manage current and future landfill gas generation rates.*

12. Are the methane collection systems not adequate to deal with methane?

Cleanaway response: *Our landfill gas collection system is designed and operates effectively to manage our landfill gas emissions, including methane.*

13. Are there anticipated seepages through the landfill base? If so why?

Cleanaway response: *Our landfill is designed and engineered to meet EPA requirements and our own design objectives. Landfill cell base liners are designed to mitigate the movement of leachate from the cell. We have a routine schedule of groundwater monitoring to validate the performance of our landfill lining system.*

14. Is the present cap not compatible with the present systems or the new height to adequately safeguard the systems, protect the environment and human health?

Cleanaway response: *The existing cap on Stage 1 and 2 of the landfill sufficiently manage our environmental and design objectives related to those stages.. Future caps will be designed when required and will meet EPA and Cleanaway requirements related to performance and function. The proposed optimised landform will be included in these future designs. Cleanaway is not changing the design engineering standards of the cap, the proposal is simply a change to the final landform for the reasons already stated.*

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15. What time frame do you plan on for the stabilisation of the waste or is it to be a dry tomb?

Cleanaway response: *The EPA assumes a post-closure management period of around 25 years following closure of the site. During this period we will continue to monitor and review site parameters and engage with the EPA regarding our obligations. The site is not a dry tomb due to the putrescible waste received at the site.*

16. What are “rock-lined down chutes”?

Cleanaway response: *Rock-lined down chutes are drainage channels lined with rock. The rock is intended to protect soil surfaces from erosion due to the passage of water.*

17. What is the purpose of rock-lined down chutes?

Cleanaway response: *The purpose of rock-lined down chutes is to receive surface water from catchments on the landfill cap and direct to perimeter surface water management measures. We propose they be installed at either end of the landform surface valleys and will run from the top surface of the cap down the side-slopes.*

18. What method of construction will it use?

Cleanaway response: *The down chutes will be subject to detailed design when future cap stages are designed. However, generally the down chutes will be a feature of the cap design and constructed from capping soils, with rocks contained within wire baskets placed on a geotextile material.*

19. Will a geotextile mat be used, or non-dispersive soil?

Cleanaway response: *Cleanaway intends to place a geotextile mat over the soils at the base of the down chutes.*

20. What gradient will be used for the slope of these chutes?

Cleanaway response: *The gradient will vary depending on the location of the down chute. This will be confirmed during detailed design, but will not exceed a slope of 1:3.*

21. How will blockages be prevented?

Cleanaway response: *The down chutes are a feature designed to prevent blockages of water flow. They will only receive surface water from capped areas of the landfill, therefore we don't anticipate major blockages from foreign material.*

22. Will the airspace contain landfill?

Cleanaway response: *Yes, the additional airspace created by optimising the landform will be used for landfilling purposes.*

23. What section/wording of the licence is required to be changed?

Cleanaway response: *The EPA licence doesn't require amendment to facilitate the landform optimisation. The landform is governed by the Development Approval for the site and we are approaching the Department for Planning Transport and Infrastructure (DPTI) to facilitate an amendment to our Approval.*

24. What is the proposed new wording?

Cleanaway response: *As per Question 23 above, there is no requirement to amend our EPA licence.*

3.3.2 Danielle asked if the tarps will hold water? Tom responded that it was very unlikely to be of any significant amount. The tarps should be up and running at the next meeting. An inspection of

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the tarps was arranged to take place at the start of the next meeting which will need to start earlier due to end of daylight saving.

Action: Next meeting on the 23rd May to start at 5pm to allow for the site visit.

3.4 Compliance Management

Process for renewal licence has commenced.

3.5 EPA Representative Update

Dublin Landfill given expiation for rubbish escaping off site. Assessing the source of rubbish is complex.

3.6 Council Representative Update

Wakefield Council to be asked to provide a written update if unable to attend the meetings.

Action: Meeting facilitator to follow up with Council re: updates.

4. Matters Arising

Nil

5. Next Meeting – May 23rd 2019

Meeting closed 1915 hours.

Actions List:

2.2.1 Tony Williams to update the flowchart as per the group discussion.

2.2.3 If no feedback is received by the due date on tasks then it will be taken as accepted by consensus from the group.

3. Garry to write to Council on behalf of the ILCRG to outline the need to address the dust problems for the people living along Prime Road.

3.3.2 Next meeting on the 23rd May to start at 5pm to allow for the site visit.

3.6 Meeting facilitator to follow up with Council re: representation and updates.