

# Foxglove Oval

## Former Landfill Environmental Works Update

On-line community  
information session

30 September 2021



# Session agenda

4.30 pm Welcome and Acknowledgement of Country - Steve Fedorow

4.35 pm Introductions - attendees; consultants/EPA/site auditor; Council staff - Steve Fedorow

4.40 Session etiquette – facilitating the online session - Barb Campany

4.40 pm Project background – site history - Steve Fedorow

4.45 pm GHD environmental update - Scott Robinson/Matt Welsh

- Hazards (and potential risks) of the landfill gas and leachate
- What has happened at the site since early 2019 (timeline and activities)
- What is planned going forward (timeline and activities)

5.15 pm Facilitated questions and discussion – Barb Campany

5.55 pm Wrap up, next steps, thank you and close – Steve Fedorow

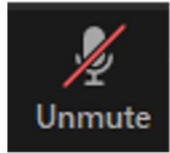
# Welcome and Acknowledgement of Country

*We recognise the Traditional Owners of the lands of Hornsby Shire, the Darug and GuriNgai peoples, and pay our respects to their Ancestors and Elders past and present, and to their Heritage. We acknowledge and uphold their intrinsic connections and continuing relationships with Country.*

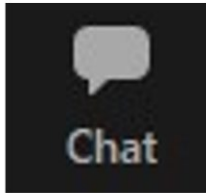
# Introductions

- Council staff
- GHD
- EPA
- Site Auditor
- Communications advisor and facilitator
- Local residents and representatives from sporting groups

# Session etiquette



Cameras off and microphones on mute during the presentation please.



Use the chat box for questions during the presentations – to be answered at the end.

During questions and discussion stage, please raise your hand and when speaking unmute and turn on video if you wish.

# Project background

Steve Fedorow

Director – Community and Environment



Circa 1947





Circa 1970







Circa 1975





Circa 1975



Circa 1978



Circa 1982





August 2021





# GHD – Environmental update

Matt Welsh

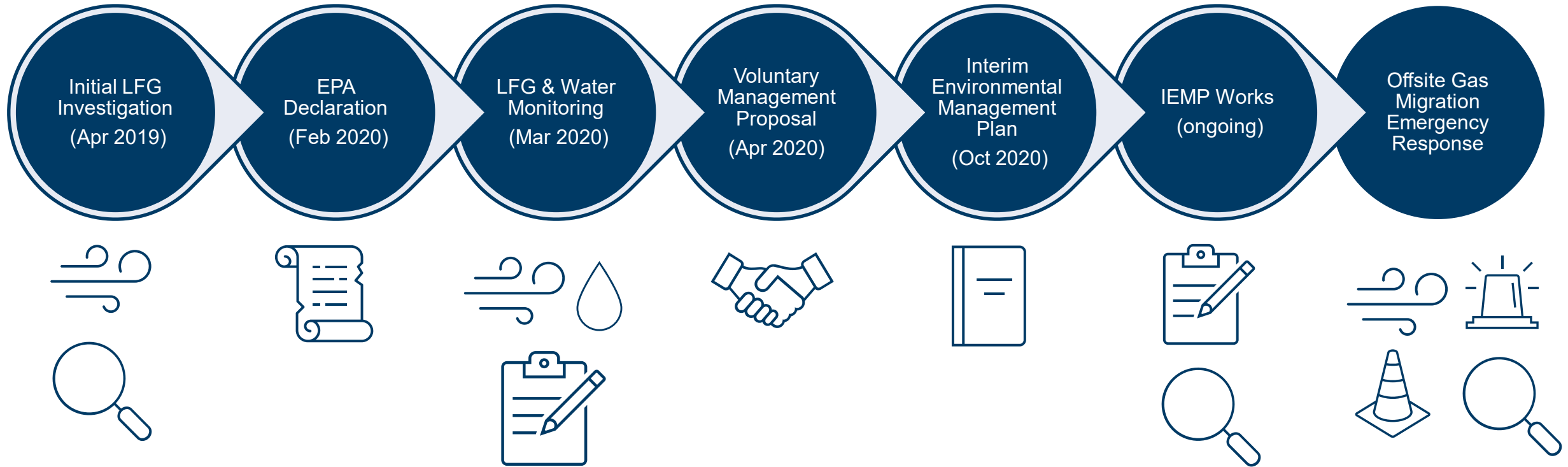
**Senior Environmental Scientist – Contamination Assessment and Remediation**

Scott Robinson

**Technical Director – Contamination Assessment and Remediation**

# GHD – Environmental update

## What has happened at the site since early 2019



# GHD – Environmental update

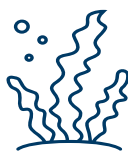
## Foxglove Oval - hazards and risks

### Hazards

Ground Gas



Leachate



# GHD – Environmental update

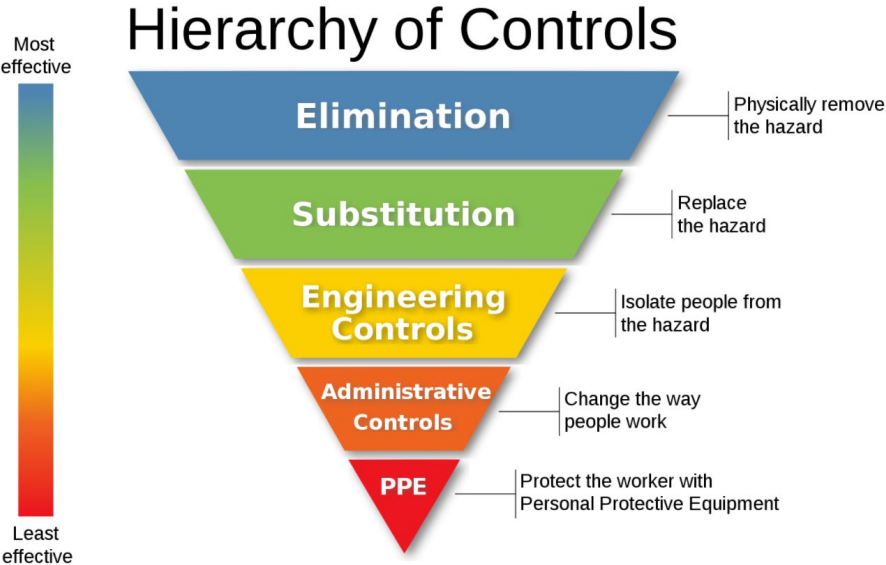
## Foxglove Oval - hazards and risks

### Risks



- Location
- Activity
- Length of Time

Probability	Consequence			
	Severe	Medium	Mild	Minor
Highly likely	Very high risk	High risk	Moderate risk	Moderate to low risk
Likely	High risk	Moderate risk	Moderate to low risk	Low risk
Low Likelihood	Moderate risk	Moderate to low risk	Low risk	Very low risk
Unlikely	Moderate to low risk	Low risk	Very low risk	Very low risk





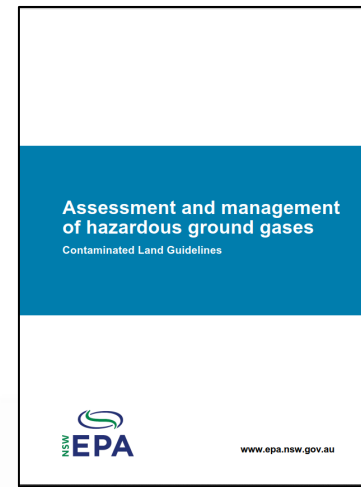
# GHD – Environmental update

## Develop Ground Gas

### Conceptual Site Model (CSM)

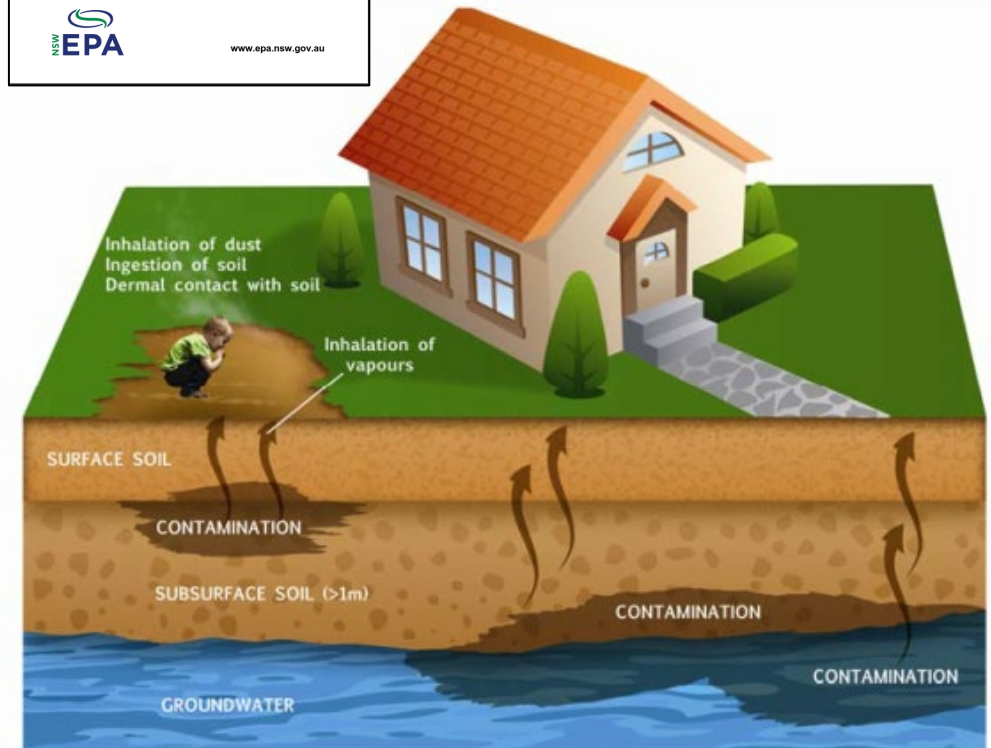
Linkage or Connection between:

- Source(s)
- Transport
- Receptor and Exposure Pathway



NSW EPA Hazardous  
Ground Gases (2020)

Example CSM Figure





# GHD – Environmental update

## Foxglove Oval - hazards and risks

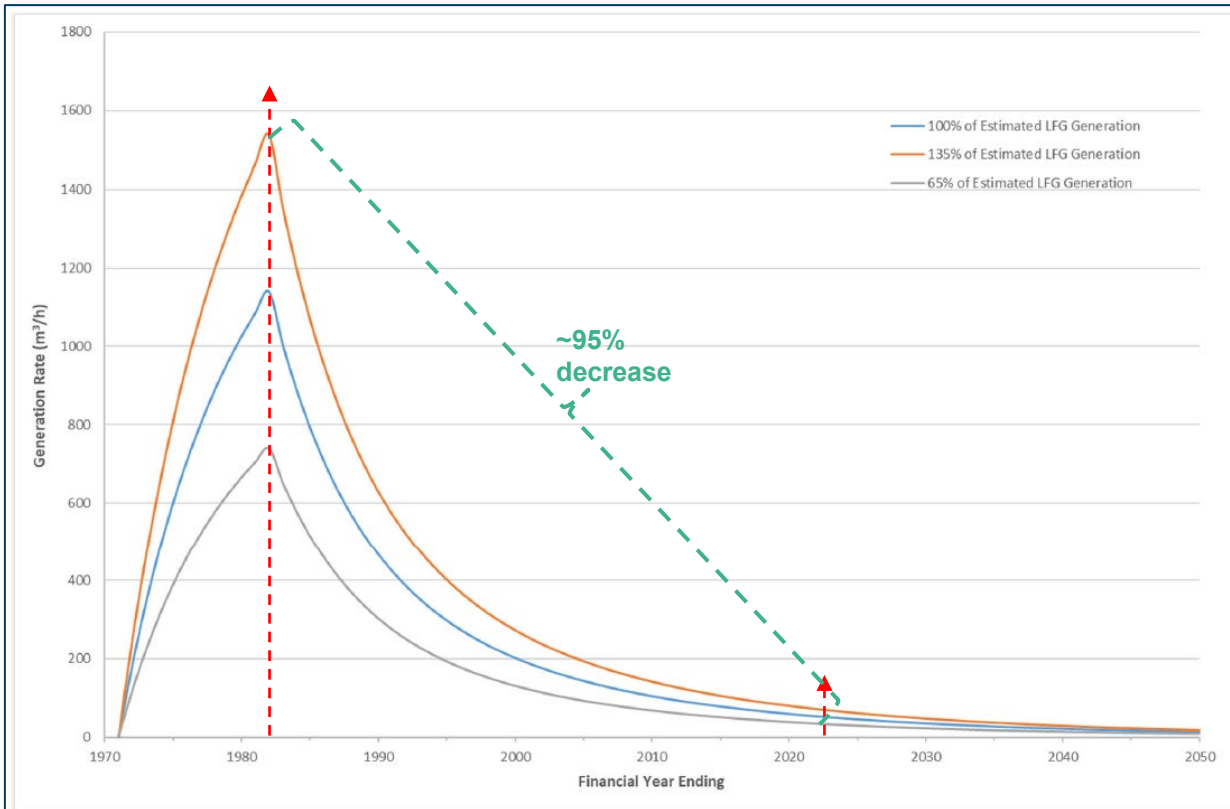


Figure 2 Estimated landfill gas generation rates at Foxglove Oval (model uncertainty)



### Landfill Gas Generation Model Conclusions:

- Generating gas since 1972
- Gas generation peaked in 1982
- ~95% reduction in maximum rate of gas generation from 1982 to present
- LFG management measures, if required
  - ✓ likely to be passive measures (i.e. vents)
  - ✓ unlikely to be active measures (i.e. a flare)

# GHD – Environmental update

## What is planned going forward

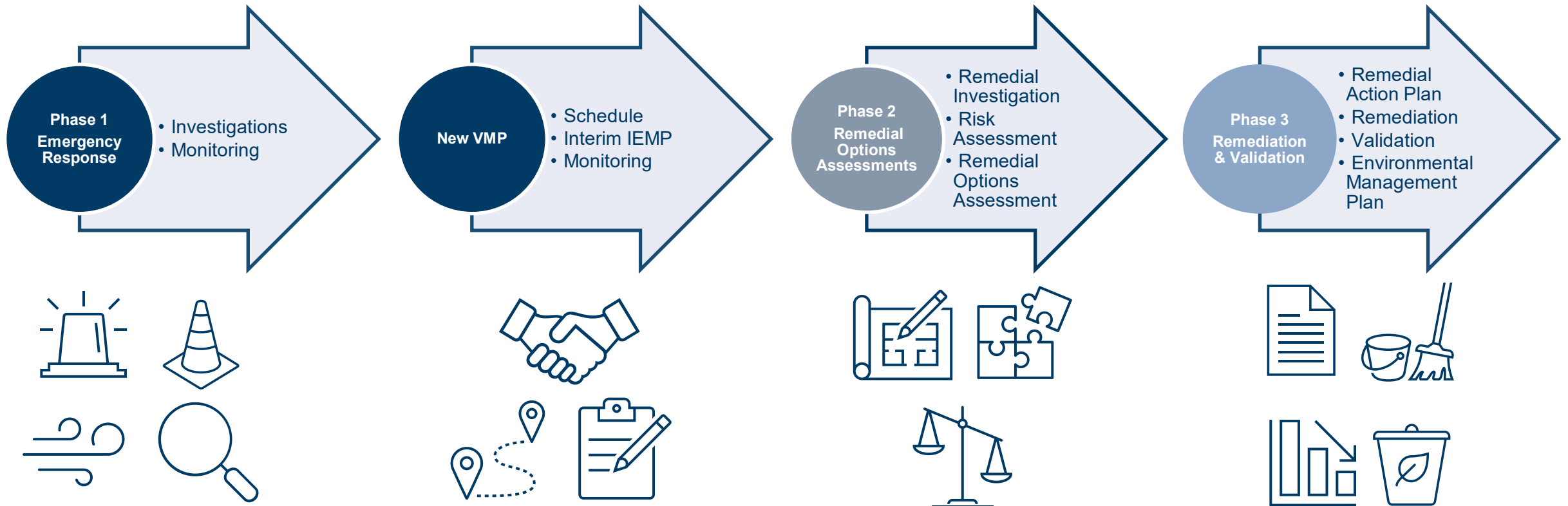
New Voluntary Management Plan (VMP) -  
Proposed Areas

- Northern Boundary
- Western Boundary
- Eastern Boundary
- Southern Boundary
- Oval



# GHD – Environmental update

## What is planned going forward – New VMP Remediation Roadmap





# GHD – Environmental update

## Boundary Continuous Gas Monitoring



# Facilitated questions, discussion – Barbara Company

- Put your video screen on if you wish to raise your hand (so we can see it);
- Use the chat box any time to post a question; or
- Raise your hand if you would like to speak
- Unmute your microphone with camera on and ask your question



Wrap up, next steps, thank you and close session