

South Australia's Environment Protection Authority

# Beverley Community Working Group



Tuesday 27 September 2016



# Agenda

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1. Welcome
2. Update on the mitigation pilot underway
3. New 'Orphan Sites' committee established by Government
4. Presentation on soil vapour remediation techniques
5. SA Health questions for Dr David Simon
6. Questions from the community
7. Next meeting

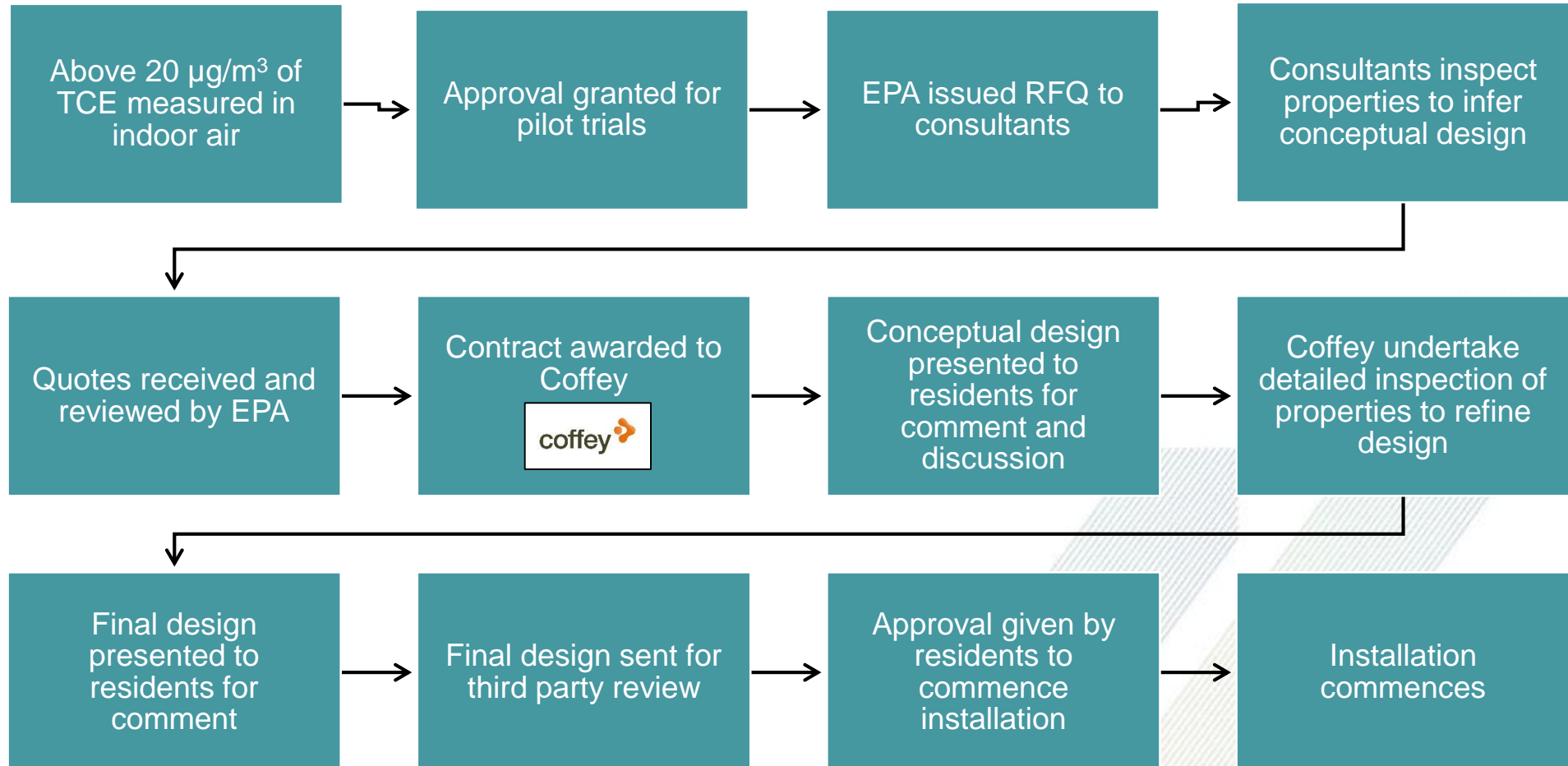
# Welcome

- Predicted 'Intervention' category testing underway
- Predicted 'Investigation' and 'Validation' works scoped and due to size of contract go out to public tender for commencement in November
- Mitigation system installation commenced yesterday at first 'pilot' property



*Delivery of pipes, 26 September 2016*

# Mitigation flowchart



# Mitigation commenced

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- Opening penetrations to allow the sub floor piping to be laid
- General building works undertaken sealing openings in the roof space and other areas
- Electrical works have commenced

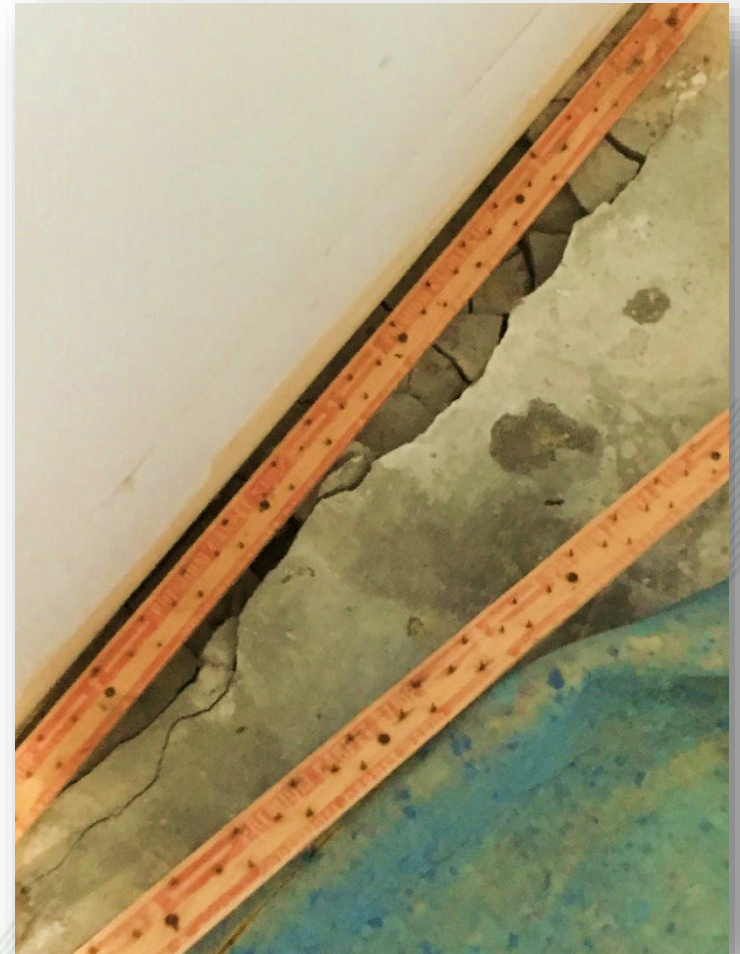


*Sub-floor drill holes for pipes, 26 September 2016*

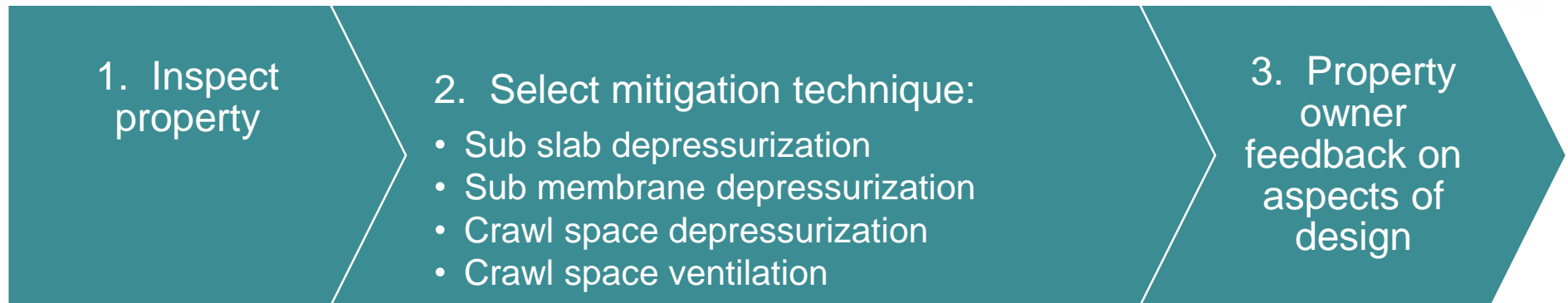
# Mitigation commenced

- Key pathways through which vapour has entered into the house will be sealed with a membrane

*Cracks in concrete to be sealed with membrane,  
26 September 2016*



# Mitigation selection process



- Selection of which will be the most suitable mitigation technique is determined by the house construction type
- The degree of work required is also determined by the house construction type as well as the property's existing condition
- In most cases the design can be refined to suit each property, in order to reduce the visibility of key elements such as incorporating the fan in a roof cavity, and concealing exposed elements of the system such as pipes.

# Modifications required

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Each property will require specific modifications unique to the characteristics of that property, which may include:

- Sealing gaps in flooring (remove vapour entry points)
- Sealing gaps in ceiling/roof (remove driving forces of intrusion)
- Installation of sub-floor piping (not visible once installed)
- Drilling through masonry/cuts in floorboards for installation
- Installation of fan(s) mounted to exterior wall or within roof space
- Installation of audible and visual alarms to alert the owner of system failure (may be housed out of sight in areas such as cupboards or laundry)
- Associated electrical modifications to support the system



# 'Orphan Sites' Committee

- On 8 August 2016, the State Government established a cross-agency 'Orphan Site' Committee
- This Committee will make decisions in regards to land owners potentially affected by contamination from orphan sites



# Indoor air level response range (TCE)

## 'Orphan Sites' Committee



- At the conclusion of the mitigation pilot program in Beverley, a new policy will come into effect
- Properties requiring mitigation will be referred to this Committee for consideration
- A successful pilot trial will enable the policy to be implemented, when the EPA can prove the success of active and passive mitigation

# 'Orphan Sites' Committee Members

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- **Ms Ruth Ambler (Chair)**  
Executive Director, Cabinet Office
- **Mr Tony Circelli**  
Chief Executive Officer, Environment Protection Authority
- **Professor Paddy Phillips**  
Chief Medical Officer, SA Health
- **Mr Michael Buchan**  
General Manager, Property Management, Renewal SA
- **Mr Andrew Cadd**  
Director, Account Management, Department of Treasury and Finance

# Soil vapour remediation techniques

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**Andrew Pruszinski**

Manager Site Contamination

# SA Health

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**Dr David Simon**

Director Scientific Services

Public Health and Clinical Co-ordination Division

# Questions

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# Next Meeting

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Tuesday 15 November 2016