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GAS MEMBRANE VALIDATION

Site: Brunswick- Manchester	
Date: 09-06-2020	Project Number: 14-207
Project Manager: R. Horseman	E3P Engineer: R. Webster
Ground Gas Risk Assessment: Characteristic Situation 2 / Amber 1	
Overview: The membrane comprised a Visqueen low permeability gas membrane (Yellow) resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation material which is considered to provide a high degree of protection. All external joints were inspected and E3P can confirm that the membrane was overlapped and double taped to external and internal gas resistant DPM. The membrane was taped to the gas resistant DPM using a double-sided jointing tape. All the overlaps were then additionally taped using foil backed girth tape. Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane. Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that Plots 268-272 & 310-312 have been installed with gas protection measures in accordance with Characteristic Situation 2 / Amber 1 to an acceptable level of workmanship.	
Membrane Specification: Visqueen Gas Membrane (Yellow)	



Plot - 268

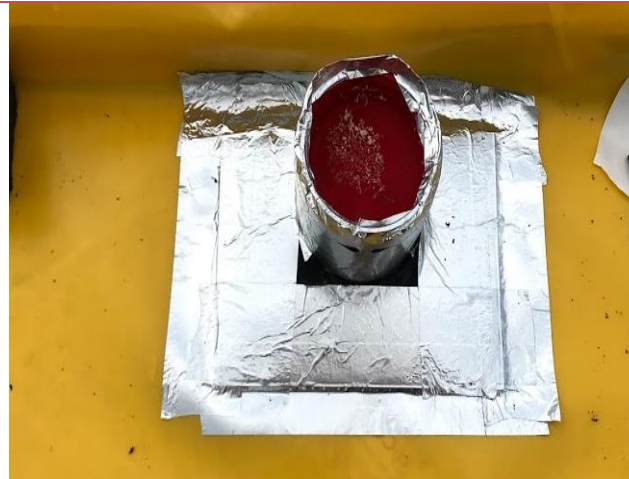
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Plot - 269

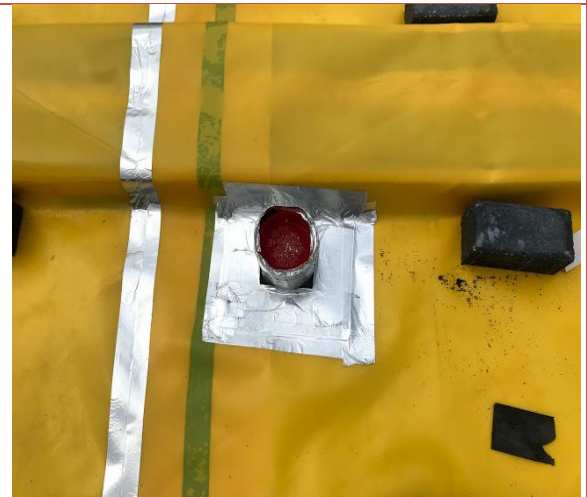
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition

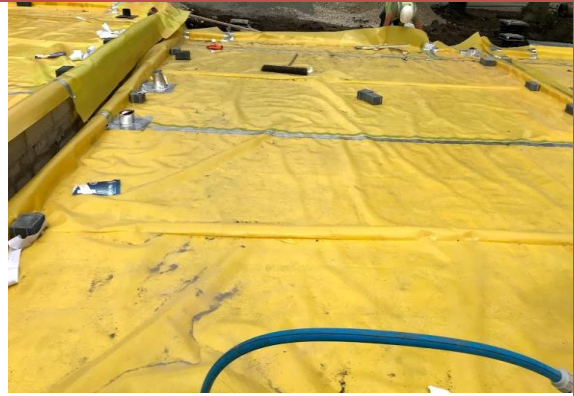


Verification of Service Penetrations-Good Condition

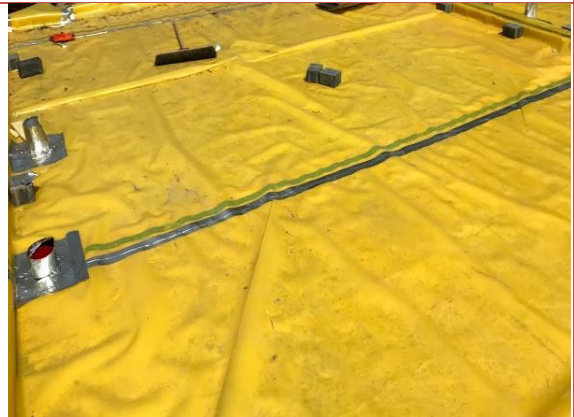


Plot - 270

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition

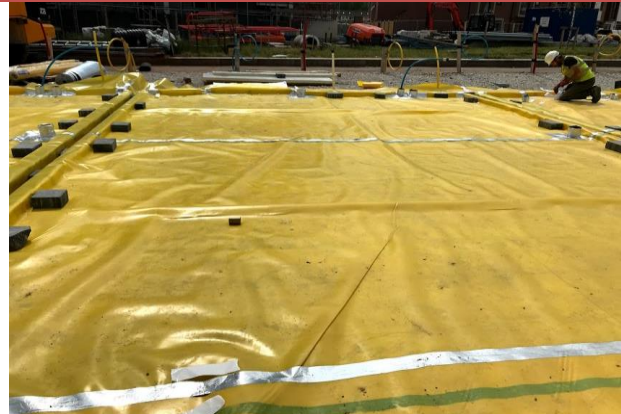


Verification of Service Penetrations-Good Condition



Plot - 271

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Plot - 272

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition

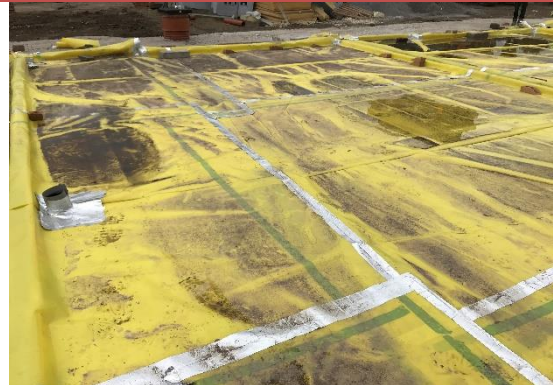


Verification of Service Penetrations-Good Condition



Plot - 310

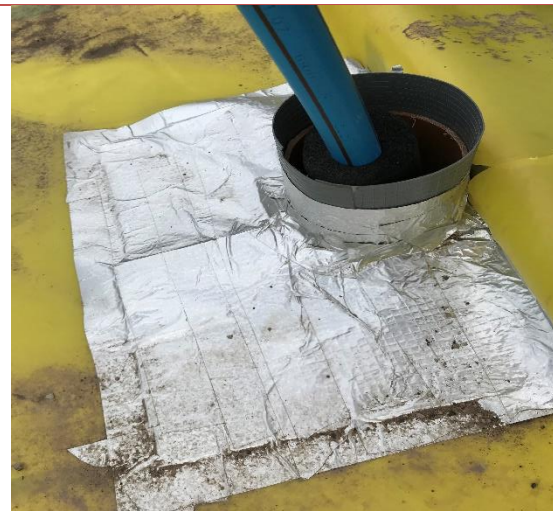
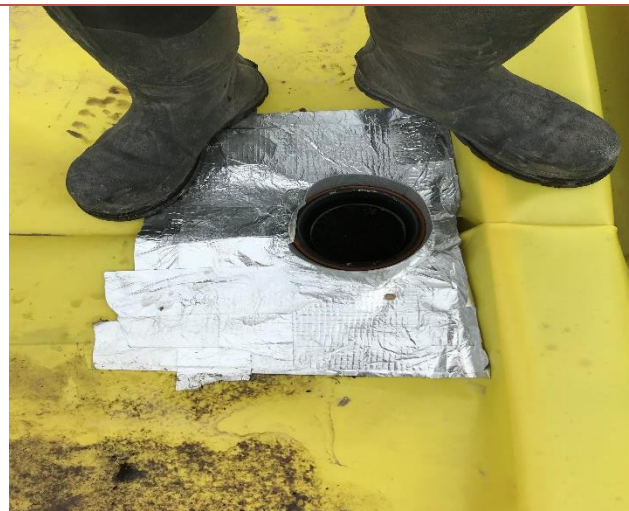
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition

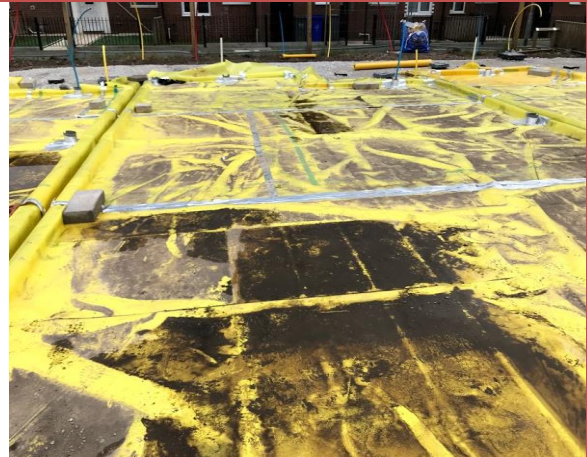
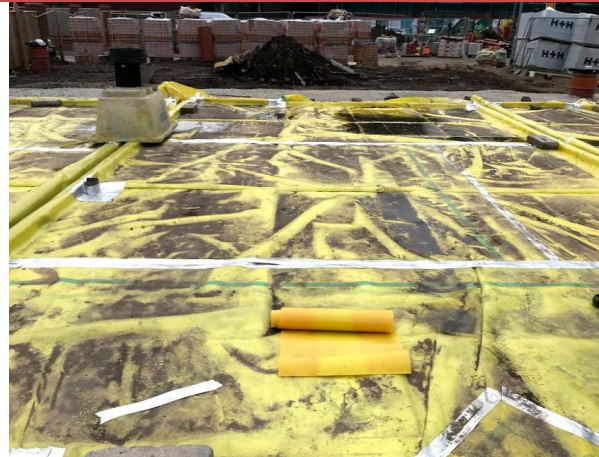


Verification of Service Penetrations-Good Condition



Plot - 311

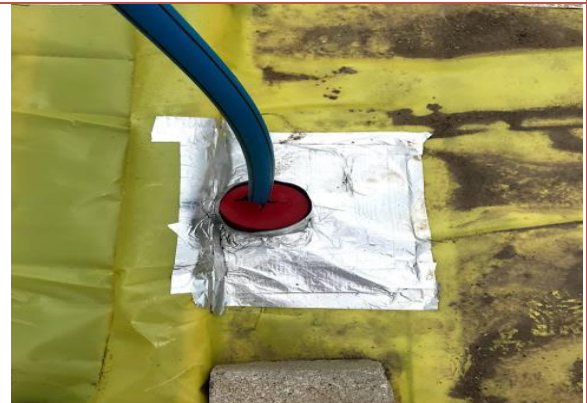
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition

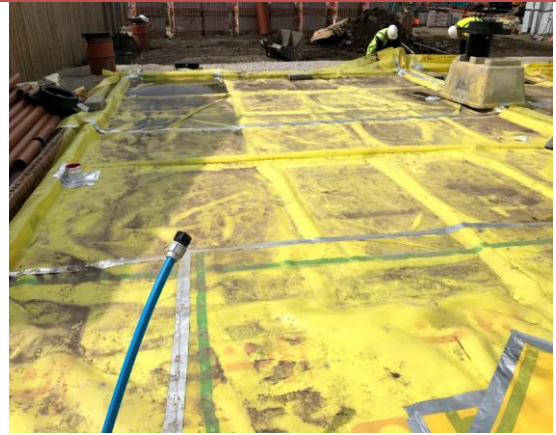


Verification of Service Penetrations-Good Condition



Plot - 312

General Condition of Membrane-Good Condition

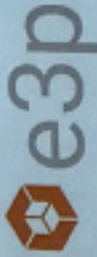


Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition





Gas Protection Validation Site Record

Plot No:

Brunswick plot 268

Inspection date/time:

9/6/20

Inspected by:

R Webster

Photographed:

✓/x

✓

✓/x Notes/recommendations

Membrane Type Correct	✓
Extent of Coverage Correct	✓
Underside of Membrane	✓
Slab / membrane condition	✓
Laps and joints	✓
Damp-proof course	✓
Service entries	✓
Folded Membrane Joint Taped & inspected	✓

This Plot has **PASSED/FAILED*** inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form).

An additional inspection visit IS/IS NOT* required for this Plot.

Inspection by: R Webster Signed: R Webster



Gas Protection Validation Site Record

Plot No:

Brunswick plot 269

Inspection date/time:	9/6/20	Inspected by:	R Webster	Photographed:	✓/x ✓
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✓/x Notes/recommendations

Membrane Type Correct	✓
Extent of Coverage Correct	✓
Underside of Membrane	✓
Slab / membrane condition	✓
Laps and joints	✓
Damp-proof course	✓
Service entries	✓
Folded Membrane Joint Taped & inspected	✓

This Plot has **ASSESSED** inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form).

An additional inspection visit IS/IS NOT* required for this Plot.

Inspection by: R Webster Signed: R Webster



Gas Protection Validation Site Record

Plot No: Brunswick plot 270

Inspection date/time:	Inspected by:	Photographed:	✓/x
9/6/20	R Webster		✓

✓/x Notes/recommendations

Membrane Type Correct	✓
Extent of Coverage Correct	✓
Underside of Membrane	✓
Slab / membrane condition	✓
Laps and joints	✓
Damp-proof course	✓
Service entries	✓
Folded Membrane Joint Taped & inspected	✓

This Plot has PASSED/FAILED* inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form).

An additional inspection visit IS/IS NOT* required for this Plot.

Inspection by: R Webster Signed: [Signature]

Gas Protection Validation Site Record

Plot No: Brunswick plot 271

Inspection date/time:	<u>9/6/20</u>
Inspected by:	<u>R Webster</u>
Photographed:	<u>✓/x</u>

✓/x Notes/recommendations

Membrane Type Correct	✓	
Extent of Coverage Correct	✓	
Underside of Membrane	✓	
Slab / membrane condition	✓	
Laps and joints	✓	
Damp-proof course	✓	
Service entries	✓	
Folded Membrane Joint Taped & inspected	✓	

This Plot has **PASSED/FAILED*** inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form).
 An additional inspection visit IS/IS NOT* required for this Plot.
 Inspection by: R Webster Signed: /s/

Gas Protection Validation Site Record

Plot No:

Brunswick plot 272

Inspection date/time:

9/6/20

Inspected by:

R Webster

Photographed:

✓/x

✓/x Notes/recommendations

Membrane Type Correct	✓	
Extent of Coverage Correct	✓	
Underside of Membrane	✓	
Slab / membrane condition	✓	
Laps and joints	✓	
Damp-proof course	✓	
Service entries	✓	
Folded Membrane Joint Taped & inspected	✓	

This Plot has **PASSED/FAILED*** inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form).

an additional inspection visit IS/IS NOT* required for this Plot.

Signed: R Webster



Gas Protection Validation Site Record

Plot No.: Brunswick plot 310

Inspection date/time:	9/6/20	Inspected by:	R Webster	Photographed:	✓/x ✓
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✓/x Notes/recommendations

Membrane Type Correct	✓
Extent of Coverage Correct	✓
Underside of Membrane	✓
Slab / membrane condition	✓
Laps and joints	✓
Damp-proof course	✓
Service entries	✓
Folded Membrane Joint Taped & inspected	✓

This Plot has **PASSED**/FAILED* inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form).

An additional inspection visit IS/IS NOT* required for this Plot.

Inspection by: R Webster Signed: [Signature]



Gas Protection Validation Site Record

Plot No: Brunswick plot 311

Inspection date/time:	Inspected by:	Photographed:	✓/x
9/6/20	R Webster		✓

✓/x Notes/recommendations

Membrane Type Correct	✓
Extent of Coverage Correct	✓
Underside of Membrane	✓
Slab / membrane condition	✓
Laps and joints	✓
Damp-proof course	✓
Service entries	✓
Folded Membrane Joint Taped & Inspected	✓

This Plot has PASSED/FAILED* inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form).
An additional inspection visit IS/IS NOT* required for this Plot.
Inspection by: R Webster Signed: R Webster