GEOSHIELD Verification Report

PROJECT REFERENCE:	PAG. 6189
PROJECT:	Manor filling station
PROJECT ADDRESS:	Old Shoreham Rd
	Lancing
	BN15 0QS
MEMBRANE SPECIFICATION:	Membrane to Bs8485 2015 and Ciria 735
PAG SAGR Detailing Tape	

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MEMBRANE SPECIFICATION: Membrane to Bs8485 2015 and Ciria 735

DESIGN DETAILS:

Drawing number. 1682. 2. 01. Rev B

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SURVEYOR: John Turnbull

VERIFICATION COMPANY: GEOSHIELD LIMITED

Suite 46, 4100 Park Approach

Thorpe Park, Leeds

West Yorkshire

LS15 8GB

CONTACT NUMBER: 07584 222519

EMAIL ADDRESS: jturnbull@geoshield.co.uk

ORDER NUMBER: Purchase Order Number 3461

PER VISIT: YES: ☐ NO: ☐ PROJECT: YES: ☑ NO: ☐

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CLIENT DETAILS

CLIENT CONTACT:	Debbie Duffin
CONTACTS ROLE:	PAG Operations Manager
MOBILE PHONE:	07471 033979
EMAIL ADDRESS:	Debbie@pageo.co.uk

CLIENT CONTACT:	
CONTACTS ROLE:	
MOBILE PHONE:	
EMAIL ADDRESS	
NOTES:	

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APPLICATION TEAM LEADERS

APPLICATOR NAME: Richard Jones

COMPANY: PAGeoContracting Limited

APPLICATOR TEL: 01536 740040

APPLICATOR EMAIL:

APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES:

NOTES:

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AREA SURVEYED:	Plots 4/5/6
Garages 1/2/3	

SITE CONDITIONS:

# WEATHER:	Dry /sunny
# TEMPERATURE:	17c
# MEMBRANE TEMPERATURE:	
# RELATIVE HUMIDITY:	Low

TIME:	10.30 - 11.30	REPORT NUMBER:	002
DATE:	20/05/2019		
ACCOMPANIED	Yes		

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VERIFICATION LAYOUT

Click to set image

Not available for this visit

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OVERVIEW PHOTOS

Click to set image

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LIMITATIONS

SURVEY AREA:

RESTRICTIONS AND LIMITATIONS: No restrictions or limitations identified during the Verification Visit.

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VERIFICATION ITEM ONE

LOCATION/GRID LINE: Plots 4/5/6

NOTES: Membrane installation

These two photos are close ups showing the membrane installation

All seams have been visually inspected and pick and probe tested

Then all seams have been air lance tested





Air test at 50psi from maximum of 51 mm

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VERIFICATION ITEM ONE



This photo is a larger overview showing the biggest seams

All the work has been installed to a very good standard

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VERIFICATION ITEM TWO

LOCATION/GRID LINE: Plots 4/5/6

NOTES: Upstand detailing

These two photos are close ups showing the upstand detailing

All the upstands have been very well sealed to the membrane

They have been rolled to remove air bubbles and improve sealing





These upstands have been completed using PAG detailing tape

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VERIFICATION ITEM TWO



This photo is a larger overview showing two more of the upstands

Once again very well installed and sealed

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VERIFICATION ITEM THREE

LOCATION/GRID LINE: Plots 4/5/6

NOTES: Pipe penetrations

These two photos are close ups showing the pipe penetrations

These two have already been boxed in

They have been well sealed at the base to the membrane





These pipe penetrations have been visually inspected and pick

and probe tested

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VERIFICATION ITEM THREE



This photo is a larger overview showing the pipe penetrations

which have not yet been connected, but are sealed

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REMEDIATION LOG

Date	Nr	Remediation Description	Y/N
13/03/2019	001	None found	✔
20/05/2019	002	None found on this visit	✔

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ADDITIONAL PHOTOS



Garage 1



Garage 2



Garage 3



Pipe penetrations warning plot 4

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ADDITIONAL PHOTOS



Air lance testing



Further testing



50psi air testing



Seams being air tested

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GAS MEMBRANE TESTING

VISUAL:	YES	✔	NO		SMOKE TEST:	YES		NO	✔
COMPRESSED AIR:	YES	✔	NO		DILECTIC	YES		NO	✔
DESTRUCTIVE:	YES		NO	✔	OTHER:	YES	✔	NO	

Testing checklist attached: YES | | NO | ✔

Gridline/Plot Sign off

Gridline/Plot Sign off	Infills plots 1/2/3 13/03/2019	✔
Gridline/Plot Sign off	Infills plots. 4/5/6 21/05/2019	✔
Gridline/Plot Sign off	Infills garages. 1/2/3. 21/05/2019	✔
Gridline/Plot Sign off		
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Gridline/Plot Sign off		
Gridline/Plot Sign off		

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TANKING, GAS AND HYDROCARBON BARRIER SYSTEMS
QUALITY ASSURANCE PROGRAMS AND INSPECTION SERVICES

INTEGRITY TESTING RECORD

DESTRUCTIVE TEST

LAP TYPE

Weld:

Tape:

Pass | Fail

COMMENTS

Not Applicable

TEST NUMBER 1

LAP TYPE

Weld:

Tape:

Pass | Fail

COMMENTS

Not Applicable

TEST NUMBER 2

AIR LANCE INTEGRITY TESTING

AIR LANCE TEST: ASTM D4437-08:2013 Inspects all seams for unbonded areas using a 4.8mm air nozzle held not more than 51mm away from the seam. 50 Psi is the minimum requirement. The air nozzle is directed on the upper edge seam, riffles indicate a unbonded seam. Each seam is numbered and failure marked with a F/1 F/2 classification and a description given



Plot 6 air testing



Plot 5 air testing



Plot 4 air testing



50 psi air testing

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TANKING, GAS AND HYDROCARBON BARRIER SYSTEMS
QUALITY ASSURANCE PROGRAMS AND INSPECTION SERVICES

INTEGRITY TESTING RECORD

AIR LANCE INTEGRITY TESTING (cont)

Detail of the Gas Membrane	PAG HC 400
Detail of Tapes	PAG SAGR Detailing Tape
Joints and lap design	Welded

TEST NUMBER:	FAILED OR PASSED	DETAIL, COMMENT AND RECOMMDATIONS
001	Passed	Excellent standard of work
002	Passed	Once more excellent work

NOTES:

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VERIFICATION SUMMARY

All materials have been installed to the manufacturers spec

This is my second visit to this site and the standard of installation

has been consistent and very good

All the welded seams are very well sealed

Pipe penetrations very well sealed

Installed to BS 8485 2015. and CIRIA 735

GEOSHIELD SIGNATURE:



DATE: 20/05/2019

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