



## Tank Inspection Report

Client	Sample
Location	Sample
Tank Identification	Tank 8
Inspection Date	Sample



## Tank Inspection Report

Client	<b>Sample</b>
Location	<b>Sample</b>
Tank Identification	<b>Tank 8</b>
Inspection Date	<b>Sample</b>

## Inspection Details

Location	Inspection Type	Procedure Number
<b>Floor Plates</b>	MFL	MFL/001/06/F
	UT corrosion sizing	UT/002/06
	Pit gauge corrosion sizing	PG/001/06
<b>Floor Plate Lap Welds</b>	Vacuum Box	VB/001/06
<b>Internal Shell to Annular weld</b>	MPI	MPI/001/06
	Visual	VT/001/06
<b>Internal Shell Plates</b>	Visual	VT/001/06
<b>Nozzle inspection</b>	UT thickness measurements	UT/001/06
	Visual	VT/001/06

	MPI	MPI/001/06
<b>External Shell Plates</b>	Scorpion B-Scan	SCB/UT/002/06
	Visual	VT/001/06
	UT corrosion sizing	UT/002/06
<b>External Floor Plate (toe) Inspection</b>	Visual	VT/001/06
	UT thickness measurements	UT/002/06
<b>External Roof Inspection</b>	Visual	VT/001/06
	UT thickness measurements	UT/002/06
<b>External Appurtenances</b>	Visual	VT/001/06
<b>External Attachment welds</b>	Visual	VT/001/06
	MPI	MPI/001/06
<b>General Housekeeping</b>	Visual	VT/001/06

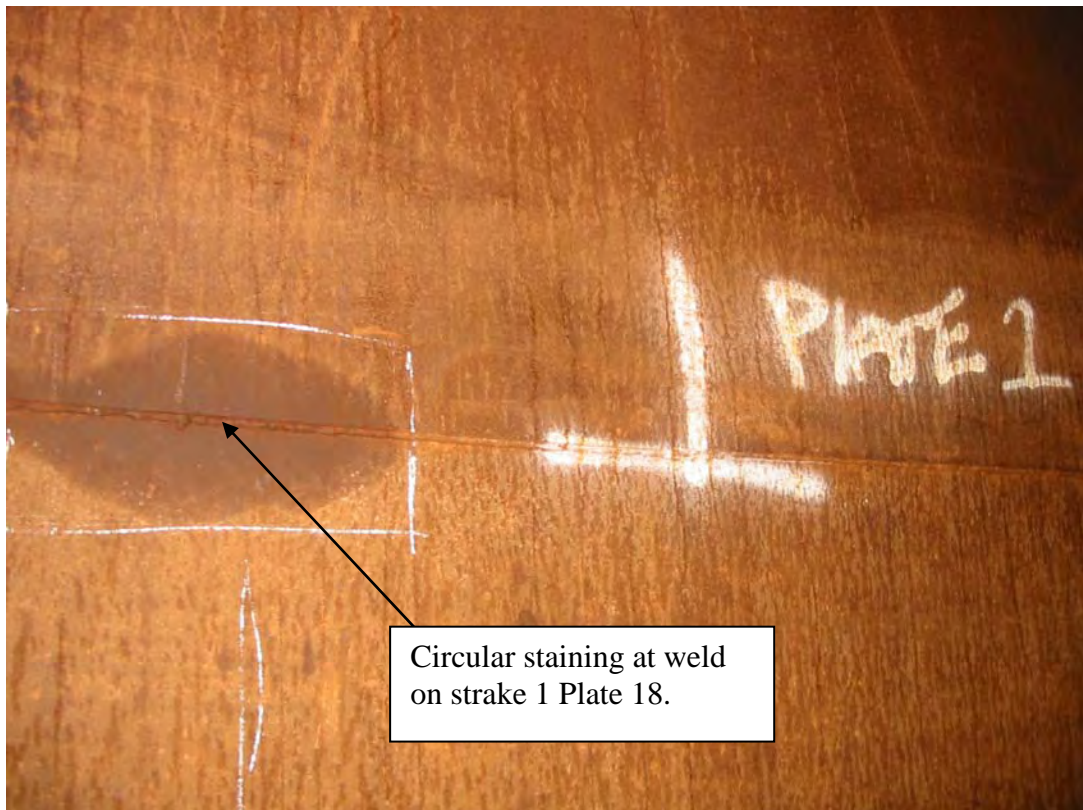
## Results Summary – Tank 8

<b>Floor</b>	Cleanliness	The floor had been cleaned to a sufficient standard to allow a meaningful inspection to take place.
MFL	Results	Corrosion in excess of 40% loss of the nominal floor thickness was detected during the survey. See attached data sheets for location and severity of the corrosion.
	Observation	
UT corrosion sizing	Results	A % of the MFL indications were cross checked by UT. The ultrasonic results confirmed the accuracy of the FloormapVS results.
Pit gauge corrosion sizing	Results	A % of the MFL indications were cross checked by Pit gauge. The Pit gauging confirmed the accuracy of the FloormapVS results.
<b>Floor Plate Lap Welds</b>		
	Cleanliness	The lap welds had been cleaned to a sufficient standard to allow a meaningful inspection to take place.
Vacuum Box	Results	No leak indications were detected during this survey.
<b>Internal shell to annular weld</b>		
	Cleanliness	The weld had been cleaned to a sufficient standard to allow a meaningful inspection to take place.
MPI	Results	No linear crack like indications were detected during this survey.
Visual	Results	The weld appeared to be in good condition with no significant corrosion, cracking or distortion visible.
<b>Internal shell Plates</b>		
	Cleanliness	The internal shell plates had been cleaned to a sufficient standard to allow a meaningful inspection to take place.
Visual	Results	Severe corrosion and through holes were noted at several areas on the shell. Access restrictions presented physical measurements from being taken. Circular liquid staining was noted around welds on strake 3, plate 4 and Strake 1, plate 18. This type of staining can be indicative of small perforations in the weld.
<b>Nozzles</b>		
	Cleanliness	The nozzle areas were clean enough to allow a meaningful inspection to take place.
UT thickness measurements	Results	See attached data sheets.
Visual	Results	The nozzle welds were generally in good condition with no significant undercut, corrosion, cracking or distortion visible. The nozzle coating appeared to be in a good condition.
MPI	Results	No linear crack type indications were detected during this survey.
<b>External Shell plates</b>		
	Cleanliness	The external shell was clean enough to allow a meaningful inspection to take place.
Scorpion B-scan	Results	See attached B-Scan report summary.

Visual	Results	Corrosion, holes and staining from leaked product were noted at several areas on the external surfaces of the shell. With the exception of the above areas, the coating appeared to be in a generally good condition.
	Observations	It should be noted that the width of each B-Scan is approximately 5mm. Areas of severe corrosion resulting in holes were noted on Course 3, Course 4 and Course 5.
<b>External Floor plate (Toe)</b>	Cleanliness	The External floor plates were clean enough to allow a meaningful inspection to take place.
UT thickness measurements	Results	See attached data sheets.
Visual	Results	Several areas of bubbled or missing paint were noted which has led to Some corrosion lamination at edge of plates. The seal between the pad and the external floor plates has started to break down.
<b>Tank Roof Plates</b>	Cleanliness	The roof was clean enough to allow a meaningful inspection to take place.
Visual	Results	The coating appeared to be in a good condition. No excessive distortion or corrosion noted on roof plates.
UT thickness measurements	Results	See attached data sheets.
<b>External Attachment welds</b>	Cleanliness	All attachment welds were clean enough to allow a meaningful inspection to take place.
MPI	Results	No linear crack type indications were detected during this survey.
Visual	Results	The welds appeared to be in good condition with no significant undercut, corrosion, cracking or distortion visible. The coating appeared to be in a good condition.
<b>External Appurtenances</b>	Cleanliness	All appurtenances were clean enough to allow a meaningful inspection to take place.
Visual	Results	Severe corrosion was noted on the wind stiffener at several areas. The corrosion appeared to have initiated at the joint between the wind stiffener and wind stiffener retaining brackets (see photographs). With the exception of the Wind-Stiffener the coating to all appurtenances appeared to be in a generally good condition. There were no signs of distress, excessive material flaking, thinning or corrosion staining. See attached data sheets.
<b>General Housekeeping</b>	Cleanliness	The tank, bund and surrounding area was found to be in a clean condition.

# Photographs – Tank 8

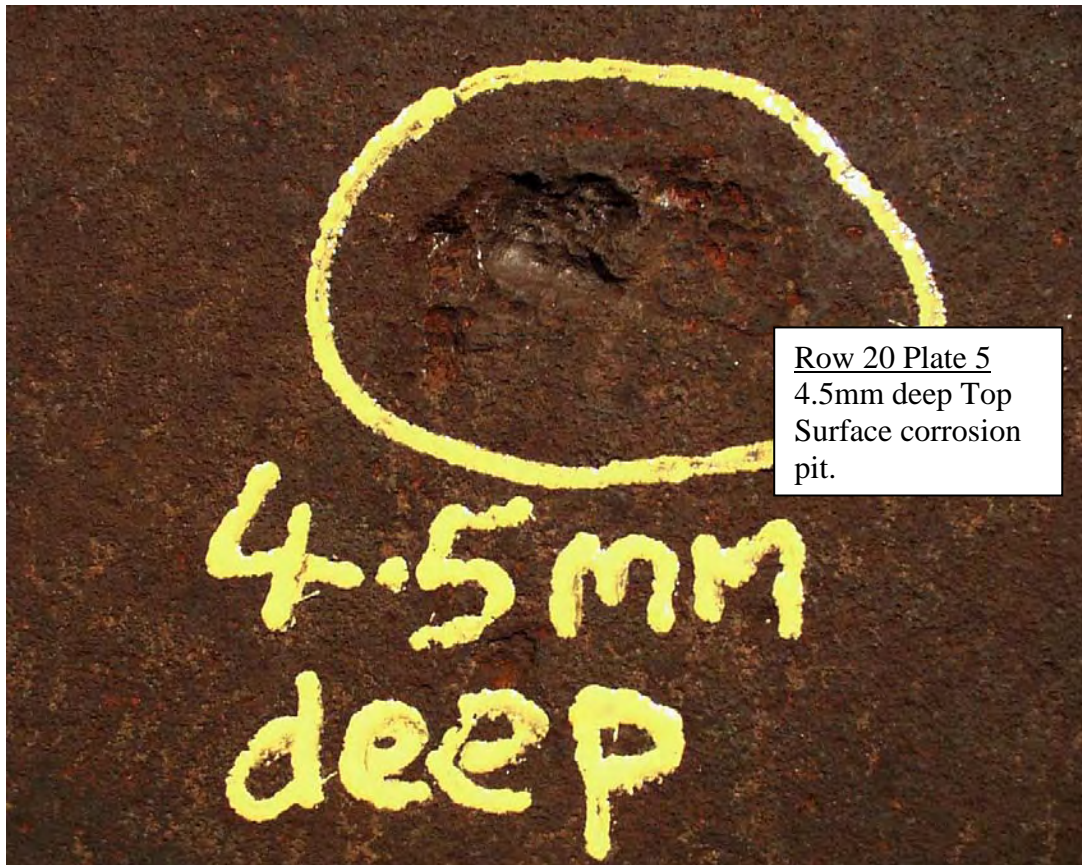
## Internal Shell



Internal Floor Plates



Row 16 Plate 5  
Hole caused by top surface corrosion pit.



Row 20 Plate 5  
4.5mm deep Top Surface corrosion pit.

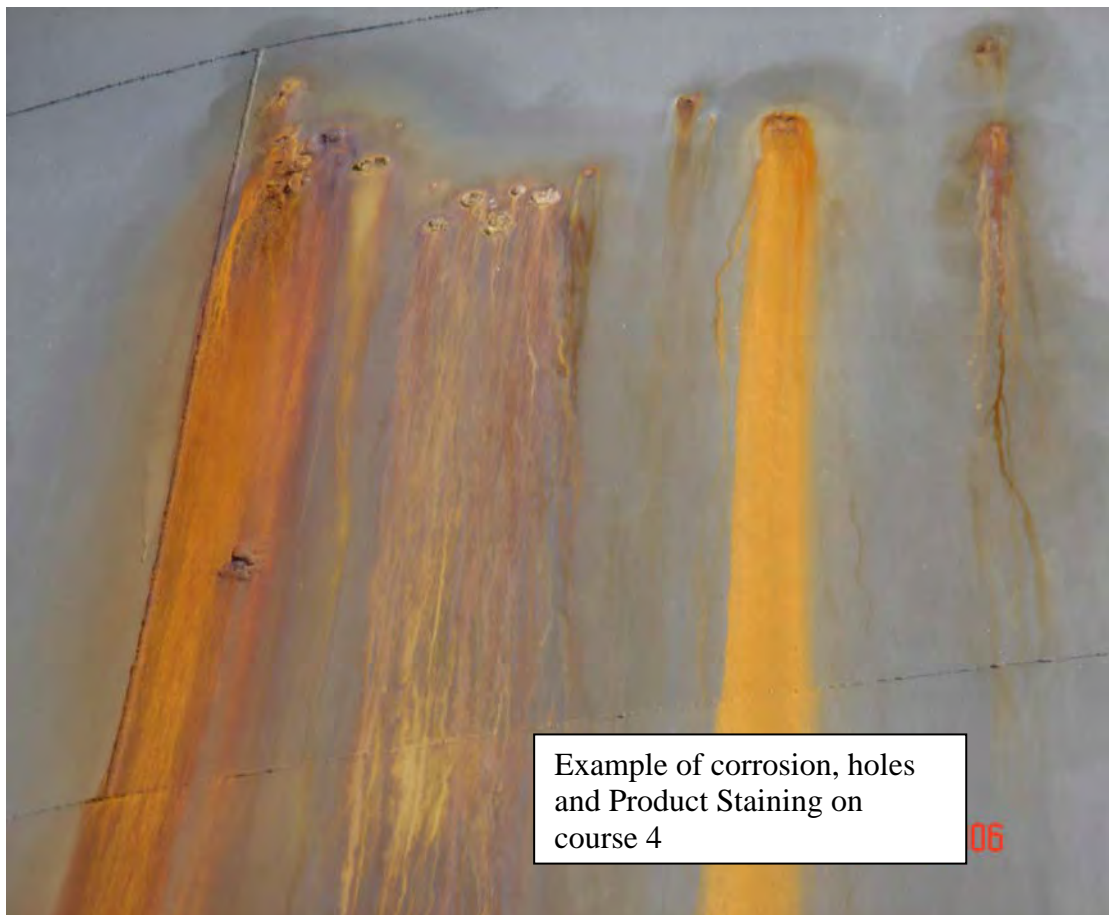
External Wind-Guard



Severe corrosion  
around fixing brackets  
on Wind-guard



External Shell



External Tank Floor Plates (Toe)



Breakdown of seal between external floor plates and concrete pad resulting in minor corrosion to the external floor plates in several areas

Inspection carried out by

J Burton/ C Saunders / D Weavers

Report authorised by

M Kircough

.....

Dated .....

# Magnetic Flux Leakage Tank Floor Inspection Summary.

## Tank 8

## Sample Inspection Report.

<b>Equipment Used</b>	The inspection was carried out using:- Silverwing (UK) Ltd FloormapVS Scanner. Serial no: 2160211 Silverwing (UK) Ltd Handscan MFL scanner. Serial no: 4190506 Krautkramer USM 25 Ultrasonic Set. Serial no: X6278le
<b>MFL Results</b>	The X / Y co-ordinates and the corrosion severity, as confirmed by either ultrasonic inspection or pit gauging, are shown in the attached drawings.
<b>Floor Thickness</b>	Nominal 6mm floor plates. Nominal 8mm annular plates.
<b>Restrictions</b>	FloormapVS signals do not discriminate between top and bottom surface originating defects so the results should be viewed as a total floor condition.
<b>Observations</b>	The FloormapVS inspection detected corrosion signals that were analysed as in excess of 40% loss of the nominal floor thickness.

The results from the magnetic flux leakage (MFL) inspection are presented as follows:

<b>Plate Numbering System</b>	Rows are numbered from the top downwards relative to the tank datum. Plates are numbered from left to right relative to the tank datum.
<b>Max Defect per Plate</b>	An image of the tank floor surveyed is shown with each plate colour coded to the maximum material loss detected by the FloormapVS inspection. This drawing is used to quickly identify areas of concern in the tank floor.
<b>Individual Plate Drawings</b>	Drawings of plates that have defect indications in excess of 40% loss of the nominal plate thickness have been printed out. The location and severity of any corrosion indication in excess of 40% loss is shown on the attached plate drawings.
<b>Electronic Report</b>	A CD is attached to this report which contains the following information: a) A PDF document containing the written report b) A compiled .tnk file containing the data files c) FloormapVS Read Only Software

## Maximum discontinuity per track

Tank 8

Location Sample

Client Sample

Operator Company Silverwing uk ltd

Outer Tank Diameter 43980 mm

Import Threshold: 20%

### Defect Colour Scheme

< 20%

20% - 29%

30% - 39%

40% - 49%

50% - 59%

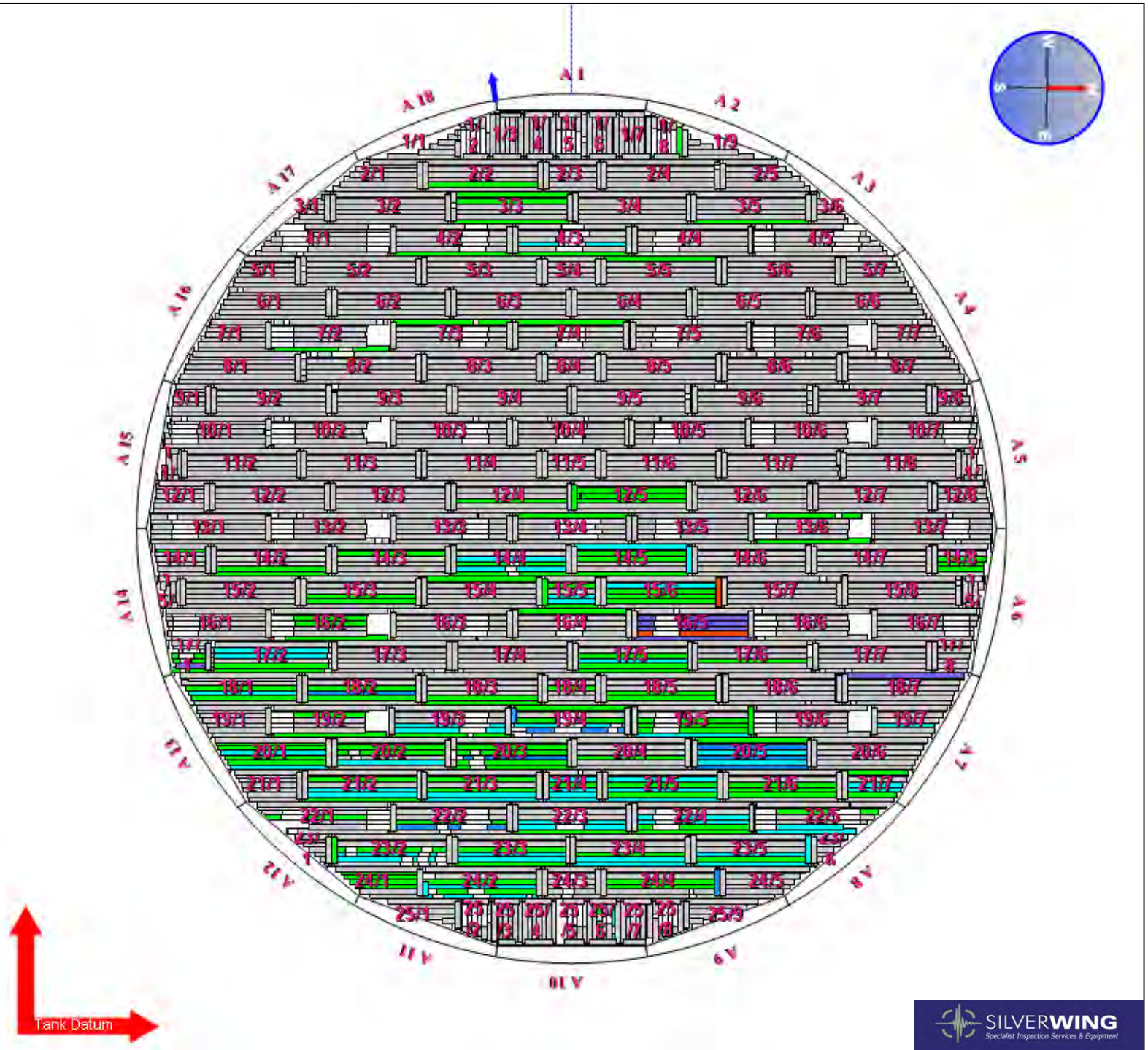
60% - 69%

70% - 79%

80% - 89%

90% - 100%

Weld Defect

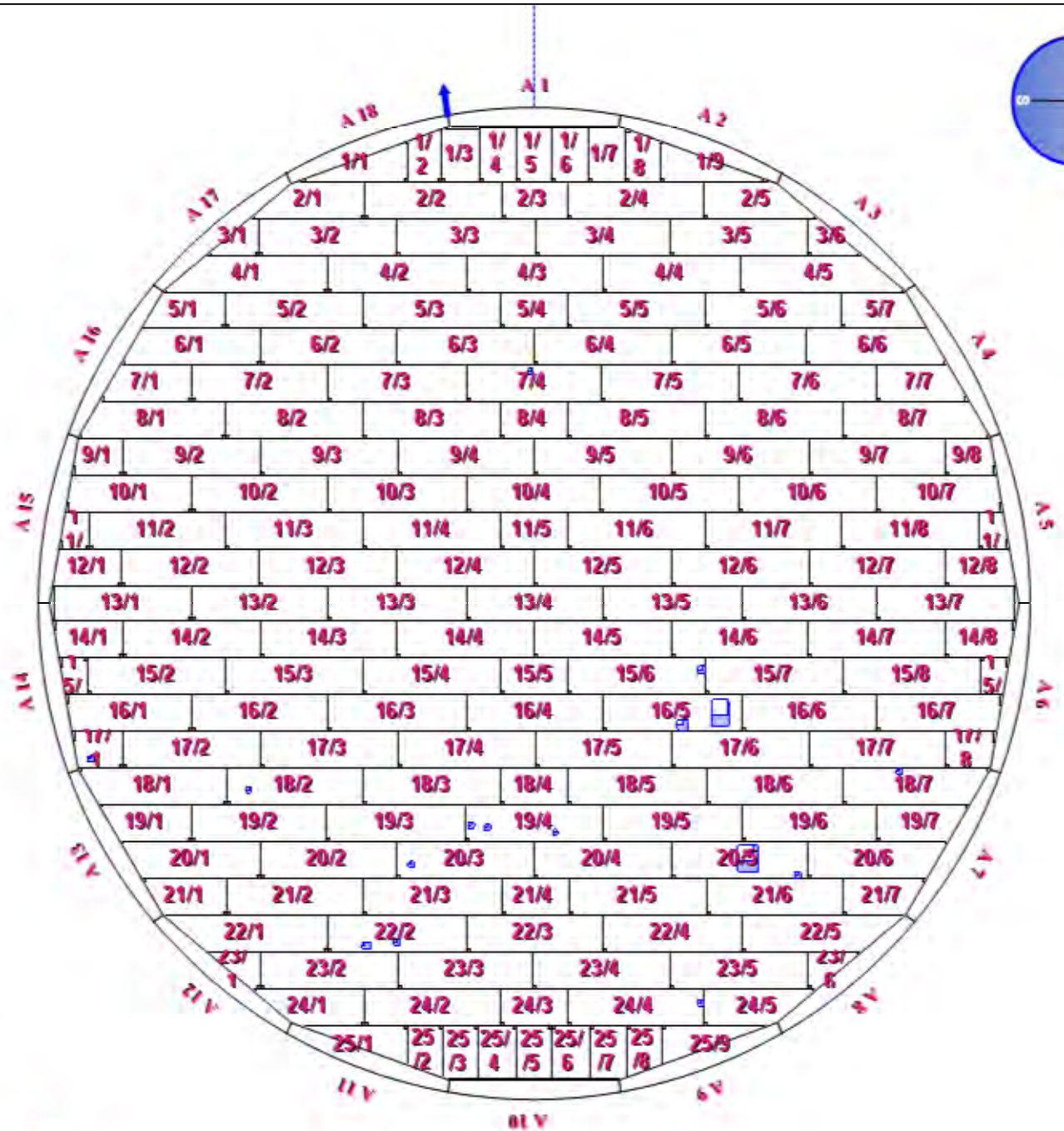


# Tank Floor Numbering System

Tank 8  
 Location Sample  
 Client Sample  
 Operator Company Silverwing uk ltd  
 Outer Tank Diameter 43980 mm  
 Import Threshold: 20%

## Defect Colour Scheme

< 20%  
 20% - 29%  
 30% - 39%  
 40% - 49%  
 50% - 59%  
 60% - 69%  
 70% - 79%  
 80% - 89%  
 90% - 100%  
 Weld Defect



## Tank Floor Layout

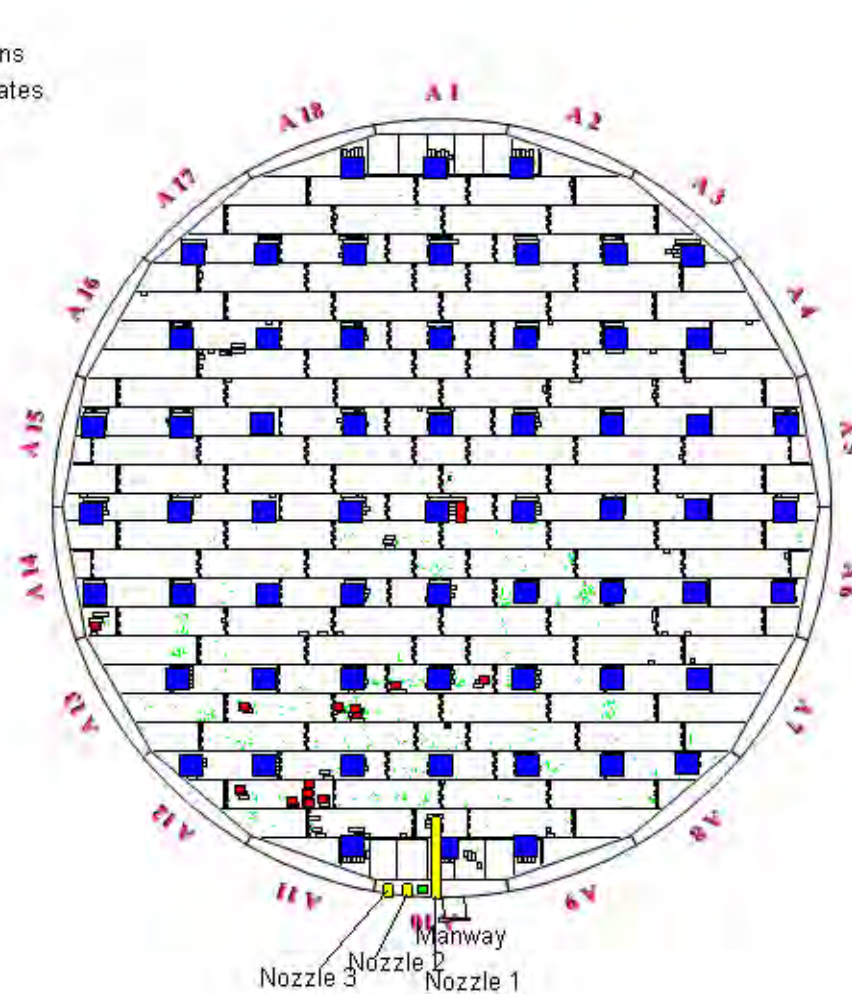
**Tank** 8  
**Location** Sample  
**Client** Sample  
**Operator Company** Silverwing uk ltd  
**Outer Tank Diameter** 43980 mm  
**Import Threshold: 20%**

### Defect Colour Scheme

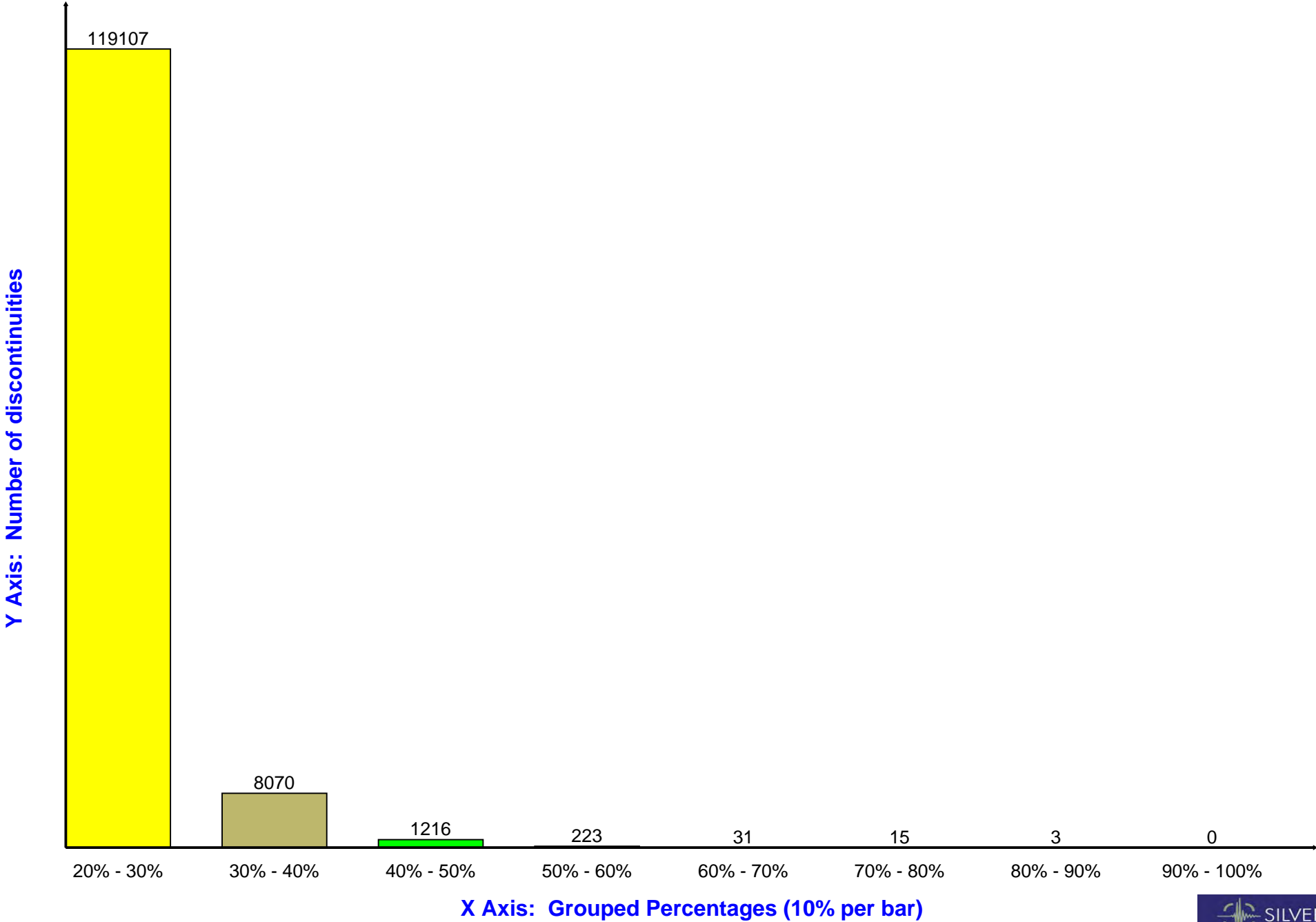
< 20%  
 20% - 29%  
 30% - 39%  
 40% - 49%  
 50% - 59%  
 60% - 69%  
 70% - 79%  
 80% - 89%  
 90% - 100%  
**Weld Defect**

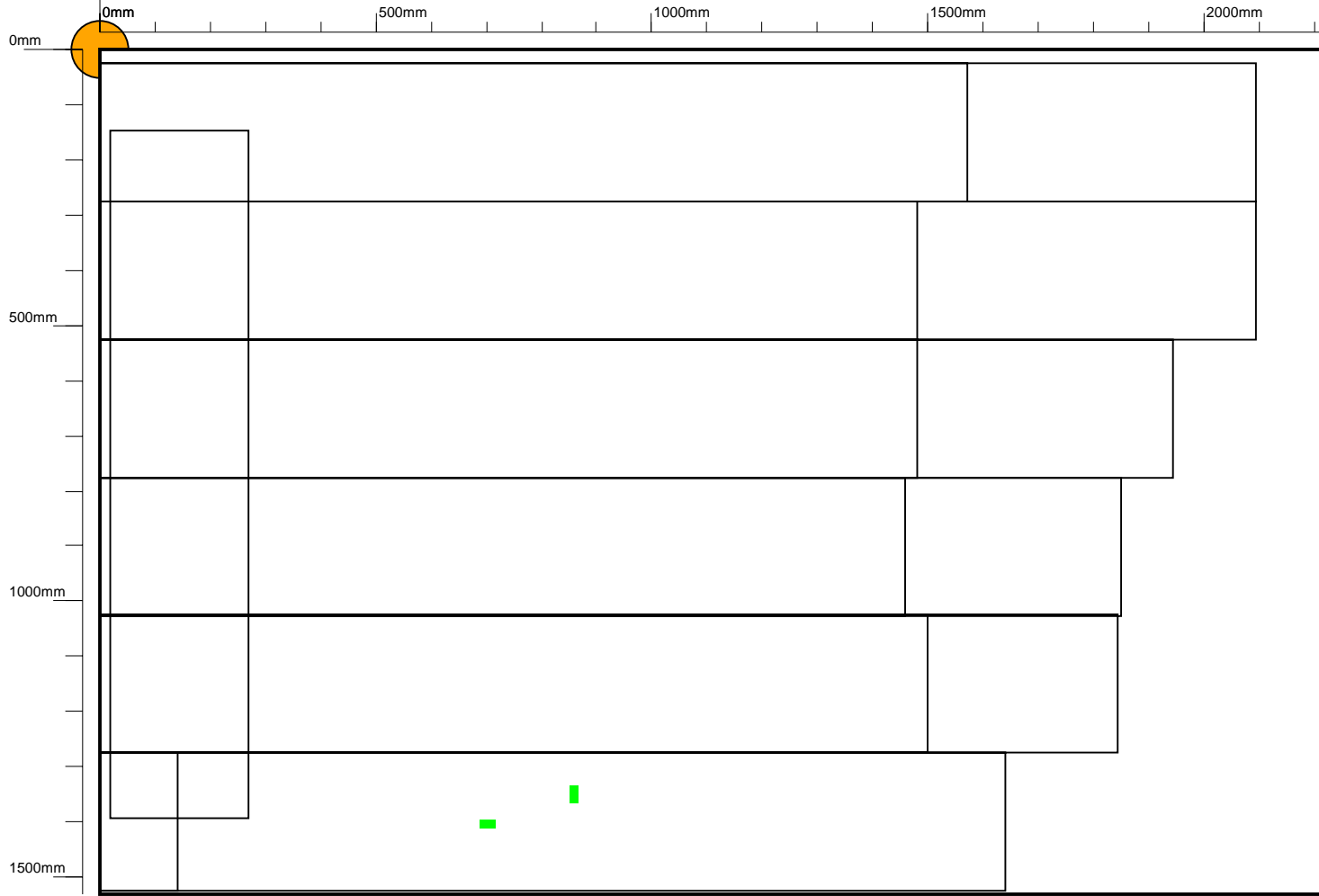


■ Stanchions  
■ Patch Plates  
■ Pipes  
■ Sump



**Number of discontinuities on tank floor 8 in bands of 10%**





**Row:** 1  
**Plate Length:** 2220  
**Orientation:** Vertical  
**Max discontinuity:** 43  
**Lower Threshold:** 40

**Plate:** 8  
**Plate Width:** 1530  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 4  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006



**Defect Colour Scheme**

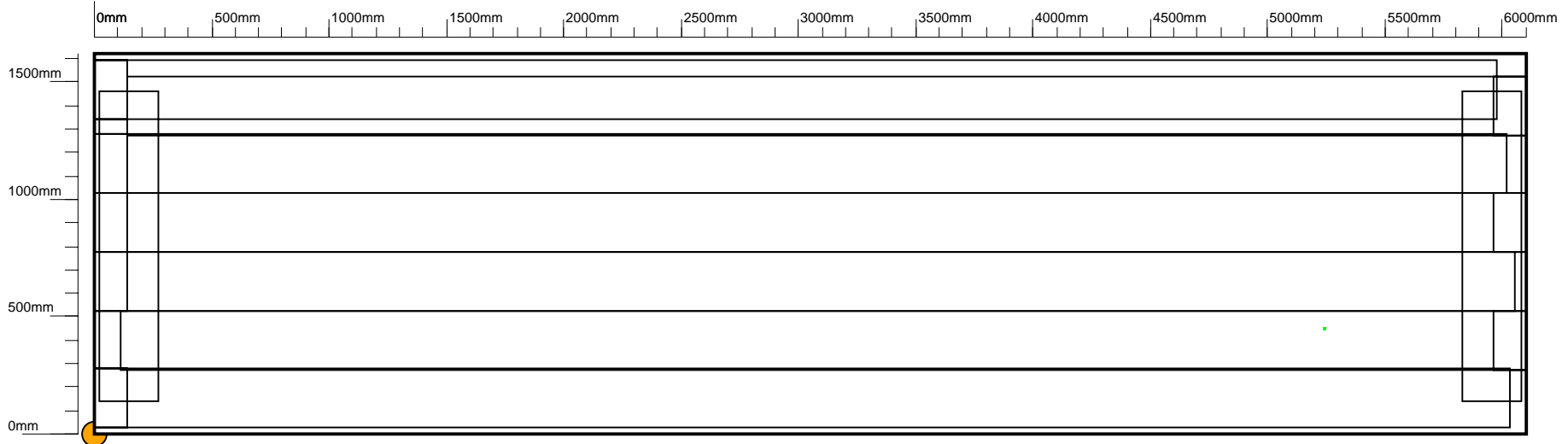
< 20%	Grey
20% - 29%	Yellow
30% - 39%	Light Green
40% - 49%	Green
50% - 59%	Cyan
60% - 69%	Blue
70% - 79%	Dark Blue
80% - 89%	Red-Orange
90% - 100%	Red

Weld Defect

**Symbols**

Defect	
Track	
Non-Scanned Area	
Plate Reference	
Tank Datum	





**Row:** 2  
**Plate Length:** 6100  
**Orientation:** Horizontal  
**Max discontinuity:** 44  
**Lower Threshold:** 40

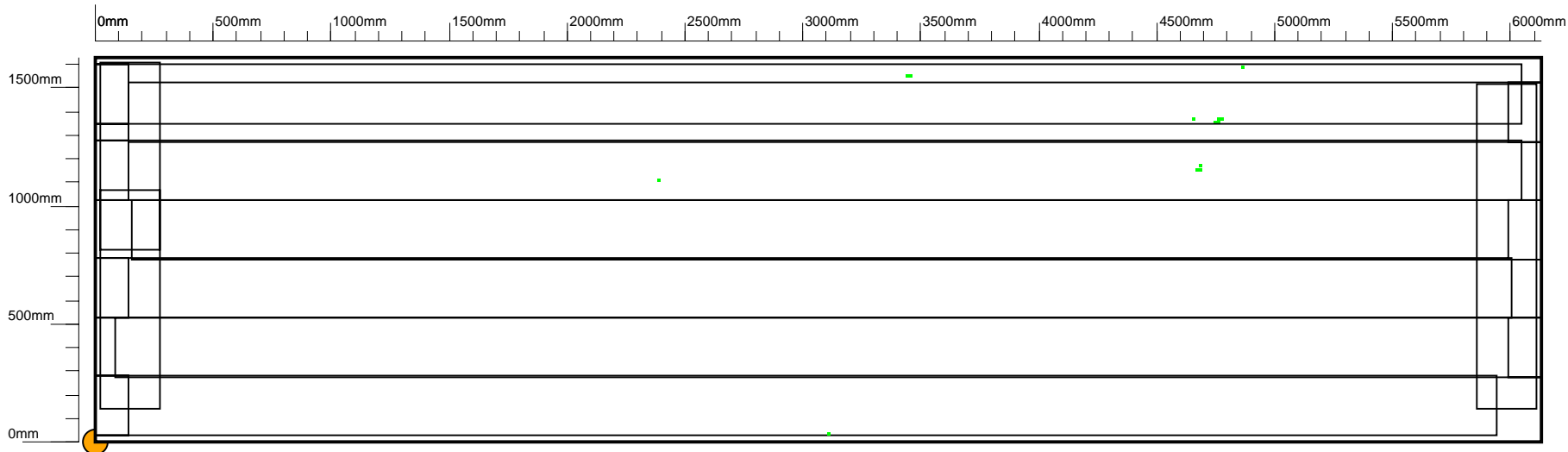
**Plate:** 2  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 1  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





**Row:** 3  
**Plate Length:** 6130  
**Orientation:** Horizontal  
**Max discontinuity:** 48  
**Lower Threshold:** 40

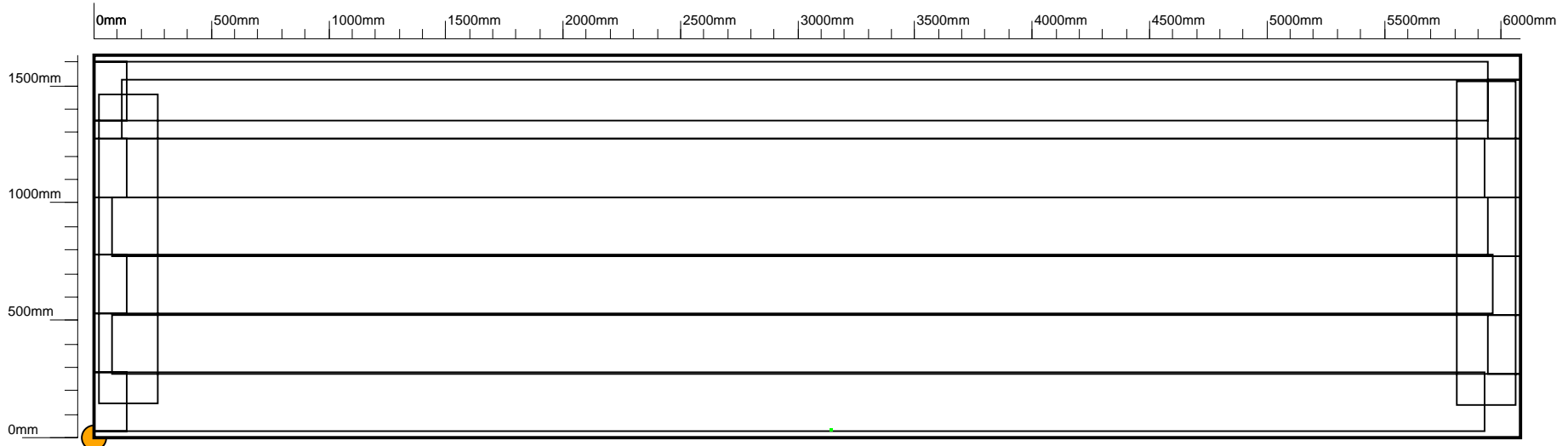
**Plate:** 3  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 13  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 3  
**Plate Length:** 6080  
**Orientation:** Horizontal  
**Max discontinuity:** 40  
**Lower Threshold:** 40

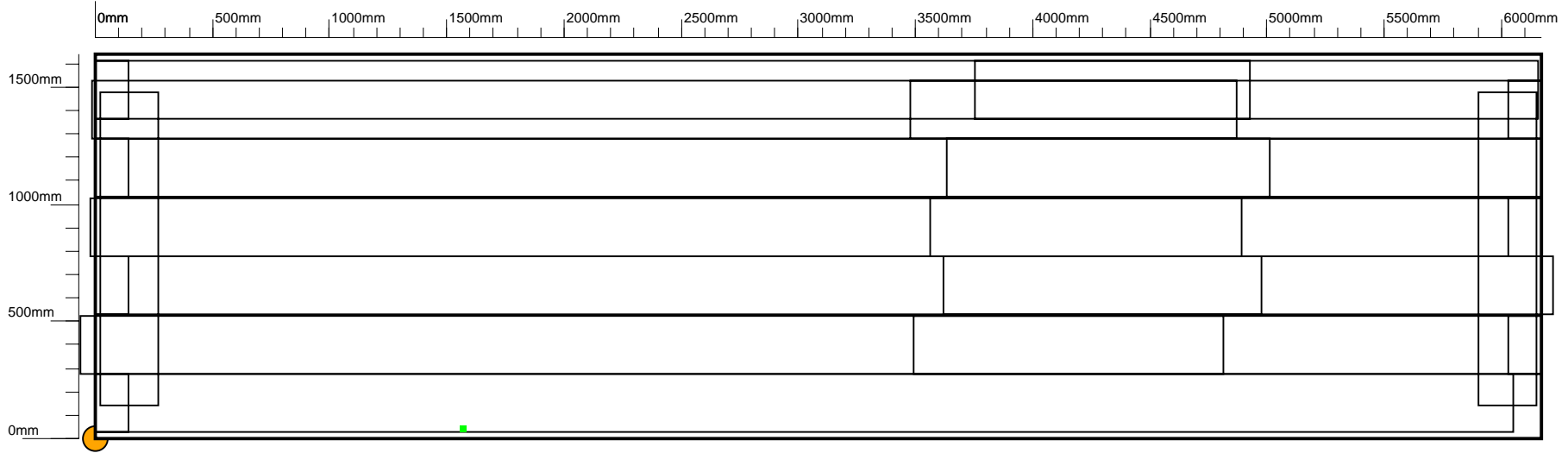
**Plate:** 5  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 1  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 4  
**Plate Length:** 6170  
**Orientation:** Horizontal  
**Max discontinuity:** 43  
**Lower Threshold:** 40

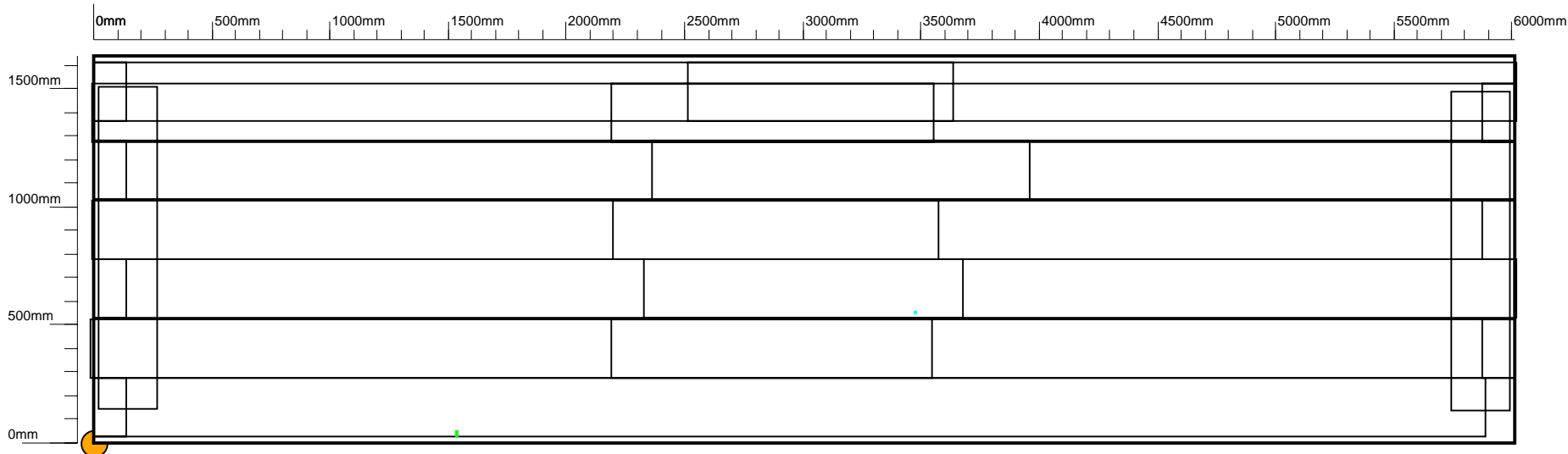
**Plate:** 2  
**Plate Width:** 1640  
**Scan Method:** Raster  
**Discontinuity Count:** 4  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 4  
**Plate Length:** 6010  
**Orientation:** Horizontal  
**Max discontinuity:** 50  
**Lower Threshold:** 40

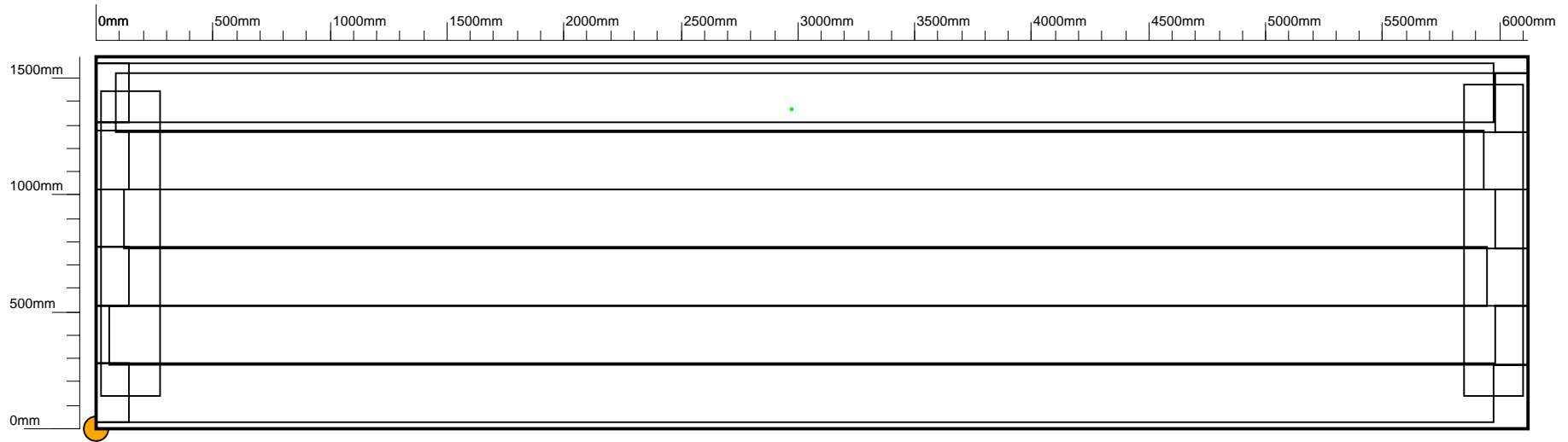
**Plate:** 3  
**Plate Width:** 1640  
**Scan Method:** Raster  
**Discontinuity Count:** 3  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 5  
**Plate Length:** 6120  
**Orientation:** Horizontal  
**Max discontinuity:** 42  
**Lower Threshold:** 40

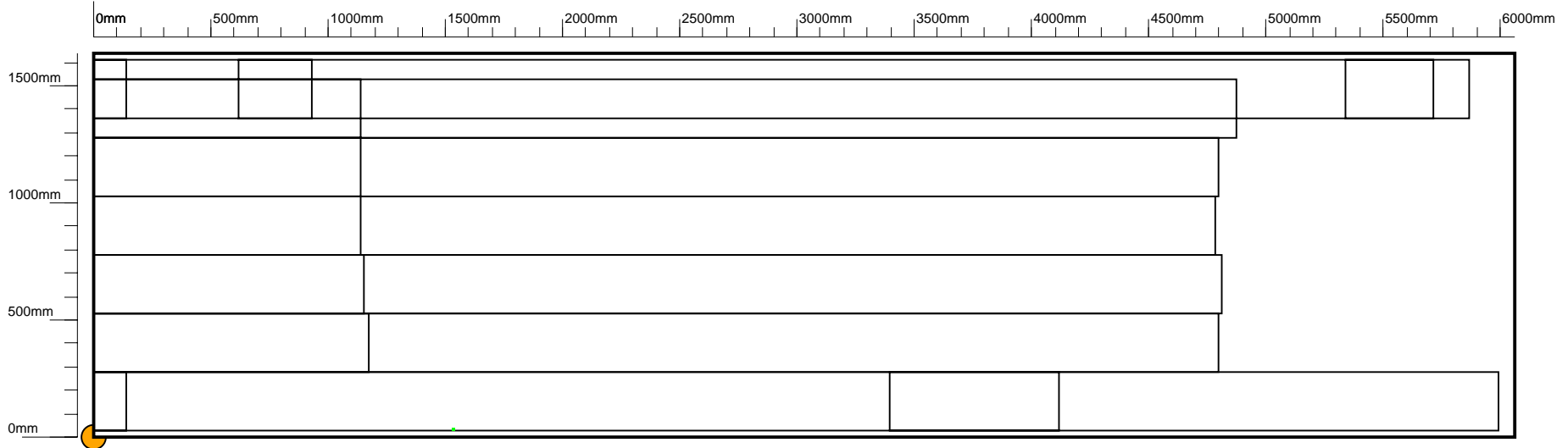
**Plate:** 5  
**Plate Width:** 1590  
**Scan Method:** Raster  
**Discontinuity Count:** 1  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





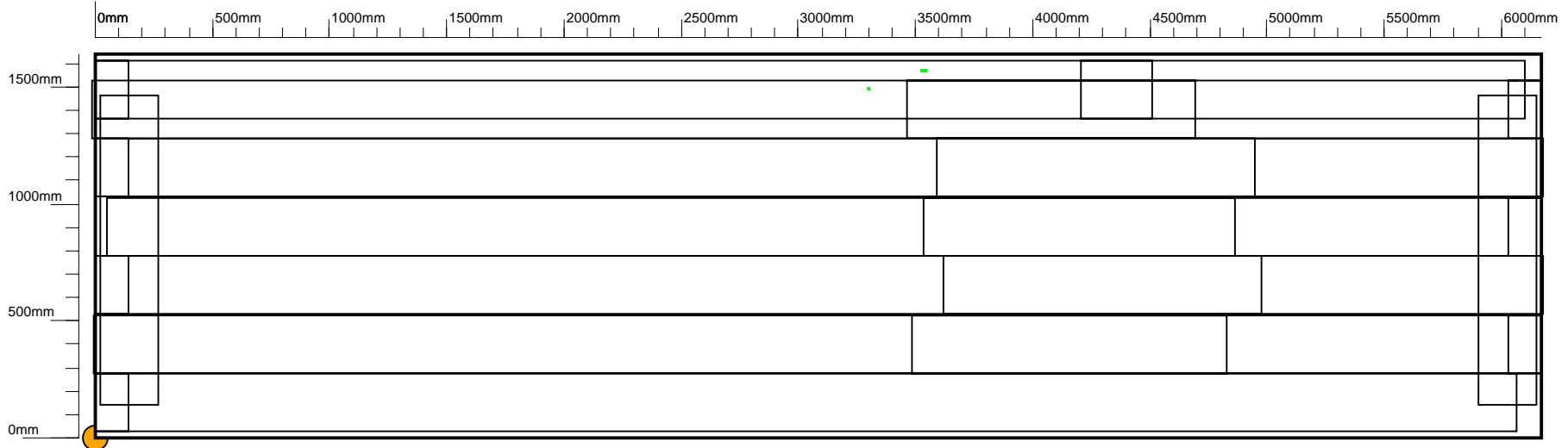
**Row:** 7  
**Plate Length:** 6060  
**Orientation:** Horizontal  
**Max discontinuity:** 44  
**Lower Threshold:** 40

**Plate:** 2  
**Plate Width:** 1640  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 1  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 7  
**Plate Length:** 6170  
**Orientation:** Horizontal  
**Max discontinuity:** 43  
**Lower Threshold:** 40

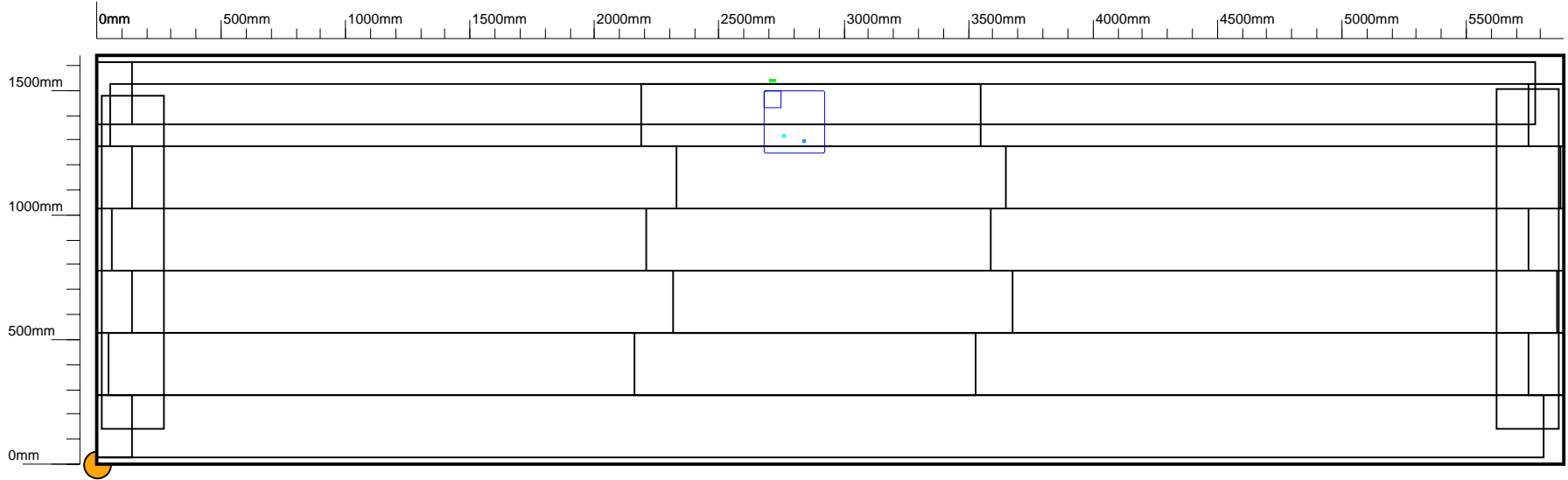
**Plate:** 3  
**Plate Width:** 1640  
**Scan Method:** Raster  
**Discontinuity Count:** 3  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 7  
**Plate Length:** 5890  
**Orientation:** Horizontal  
**Max discontinuity:** 60  
**Lower Threshold:** 40

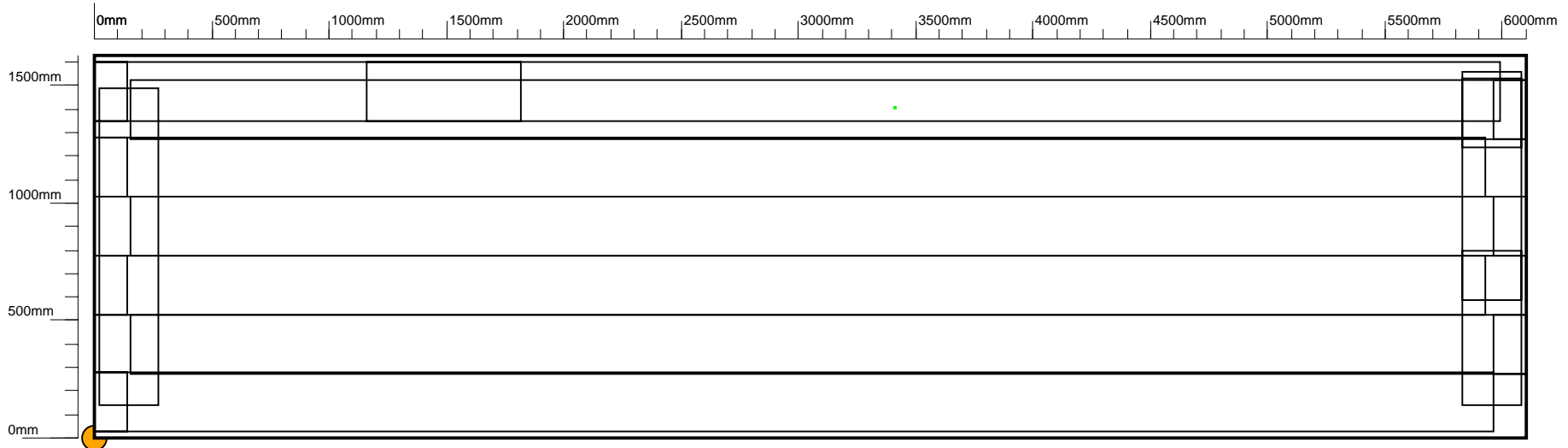
**Plate:** 4  
**Plate Width:** 1640  
**Scan Method:** Raster  
**Discontinuity Count:** 4  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 9  
**Plate Length:** 6100  
**Orientation:** Horizontal  
**Max discontinuity:** 40  
**Lower Threshold:** 40

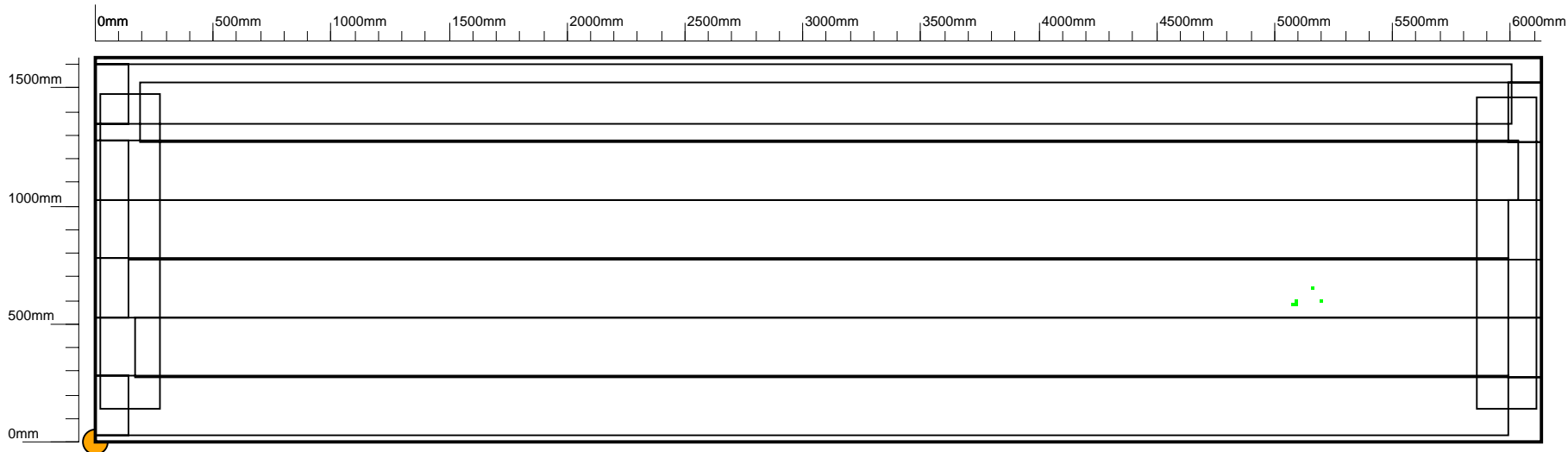
**Plate:** 6  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 1  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 12  
**Plate Length:** 6130  
**Orientation:** Horizontal  
**Max discontinuity:** 42  
**Lower Threshold:** 40

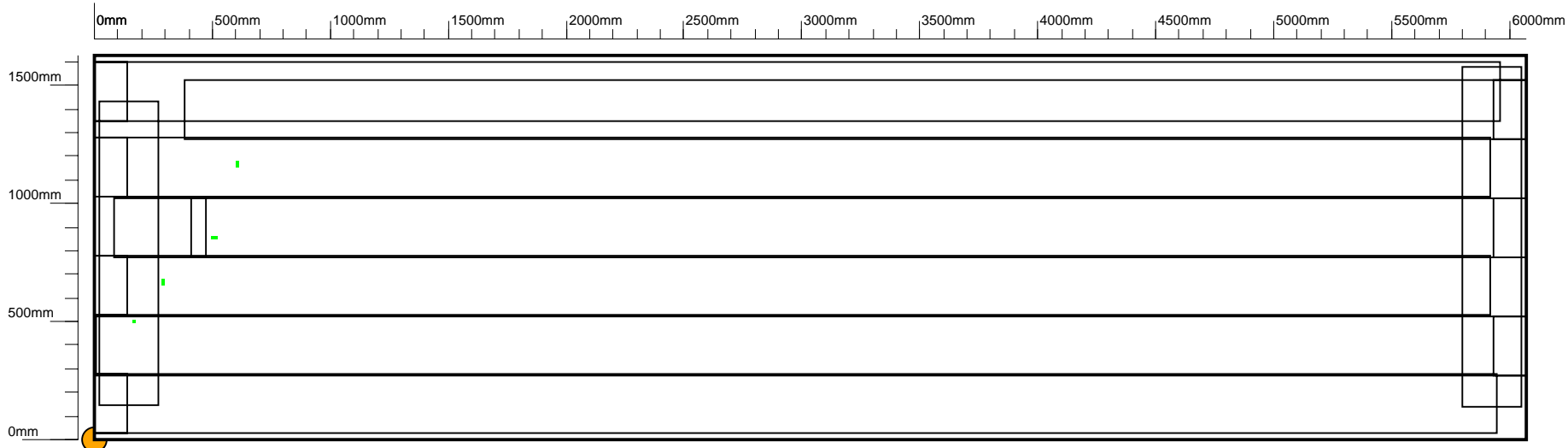
**Plate:** 4  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 5  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 12  
**Plate Length:** 6070  
**Orientation:** Horizontal  
**Max discontinuity:** 45  
**Lower Threshold:** 40

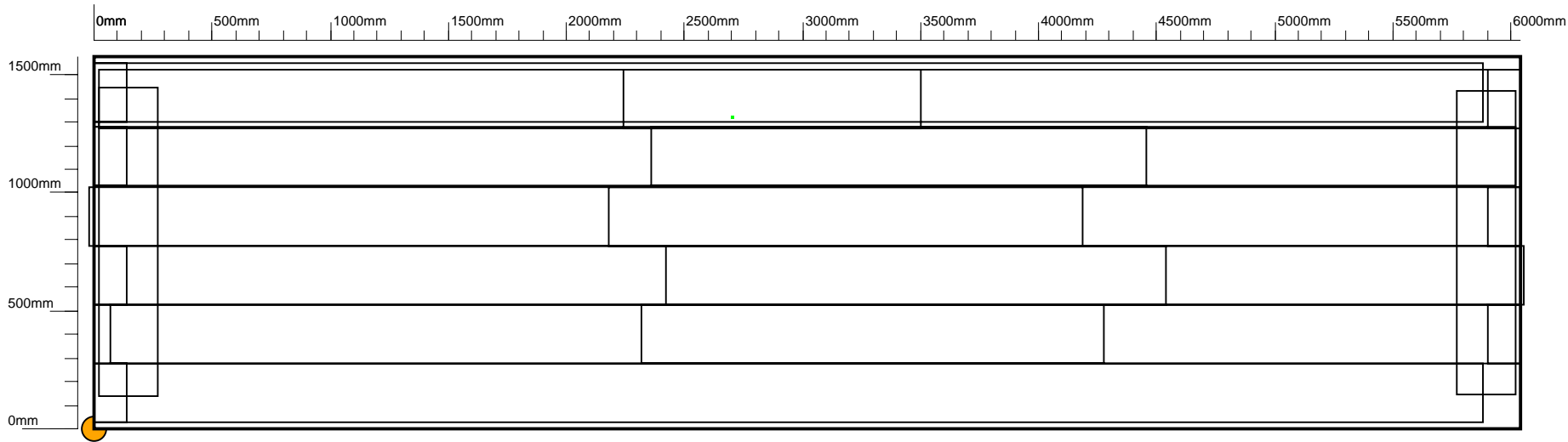
**Plate:** 5  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 7  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 13  
**Plate Length:** 6040  
**Orientation:** Horizontal  
**Max discontinuity:** 43  
**Lower Threshold:** 40

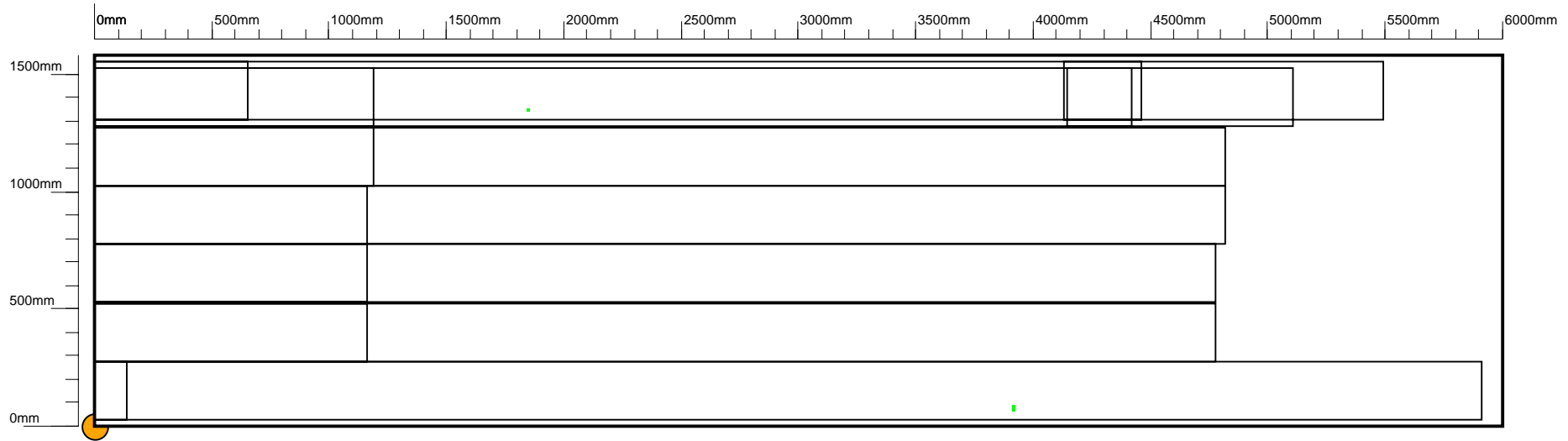
**Plate:** 4  
**Plate Width:** 1580  
**Scan Method:** Raster  
**Discontinuity Count:** 1  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 13  
**Plate Length:** 6000  
**Orientation:** Horizontal  
**Max discontinuity:** 41  
**Lower Threshold:** 40

**Plate:** 6  
**Plate Width:** 1580  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 3  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 14  
**Plate Length:** 2970  
**Orientation:** Horizontal  
**Max discontinuity:** 43  
**Lower Threshold:** 40

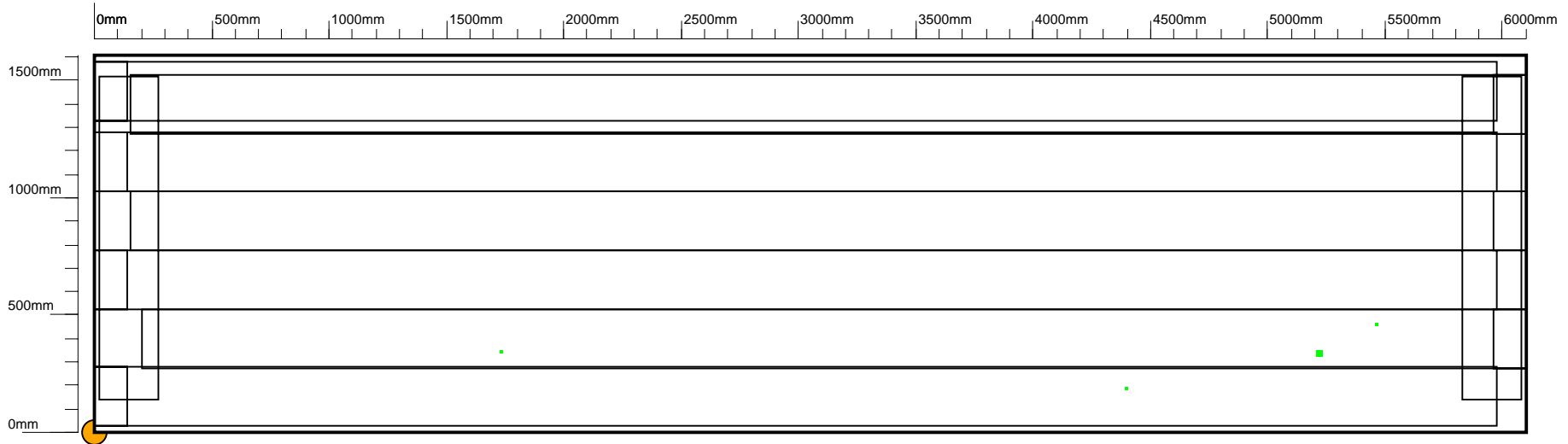
**Plate:** 1  
**Plate Width:** 1610  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 1  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 14  
**Plate Length:** 6100  
**Orientation:** Horizontal  
**Max discontinuity:** 44  
**Lower Threshold:** 40

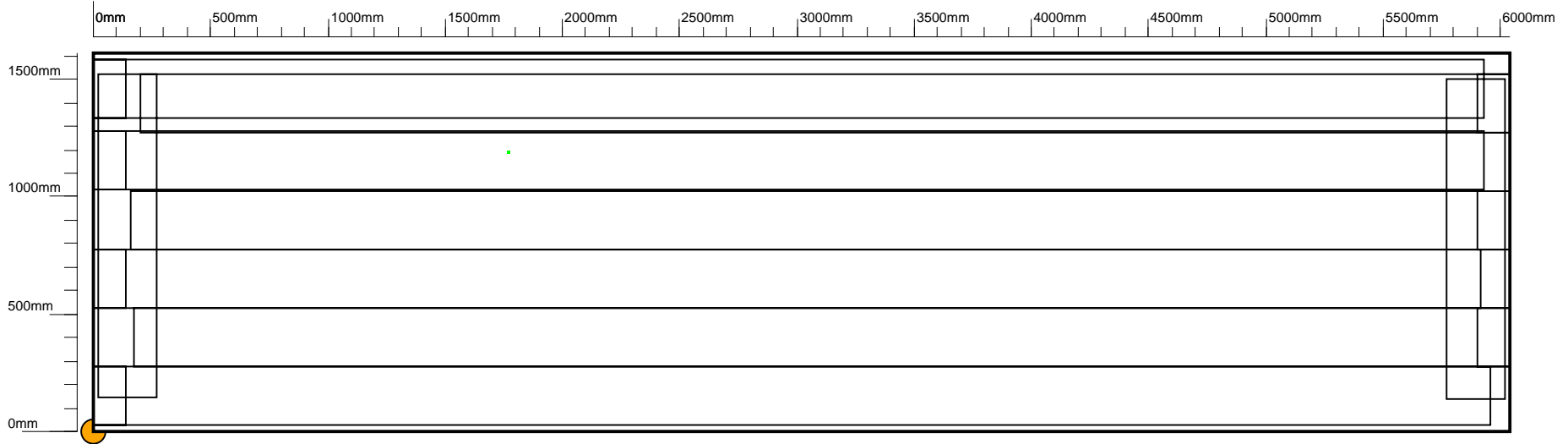
**Plate:** 2  
**Plate Width:** 1610  
**Scan Method:** Raster  
**Discontinuity Count:** 7  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 14  
**Plate Length:** 6040  
**Orientation:** Horizontal  
**Max discontinuity:** 42  
**Lower Threshold:** 40

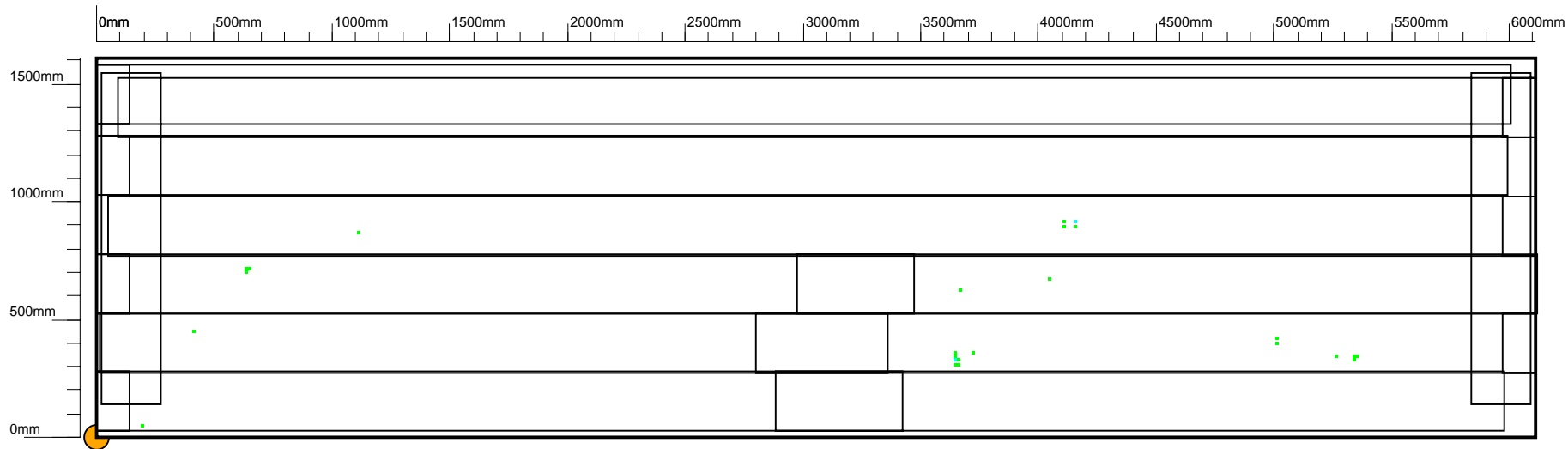
**Plate:** 3  
**Plate Width:** 1610  
**Scan Method:** Raster  
**Discontinuity Count:** 1  
**Upper Threshold:** 100

**Import Threshold:** 20%

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006





**Row:** 14  
**Plate Length:** 6110  
**Orientation:** Horizontal  
**Max discontinuity:** 50  
**Lower Threshold:** 40

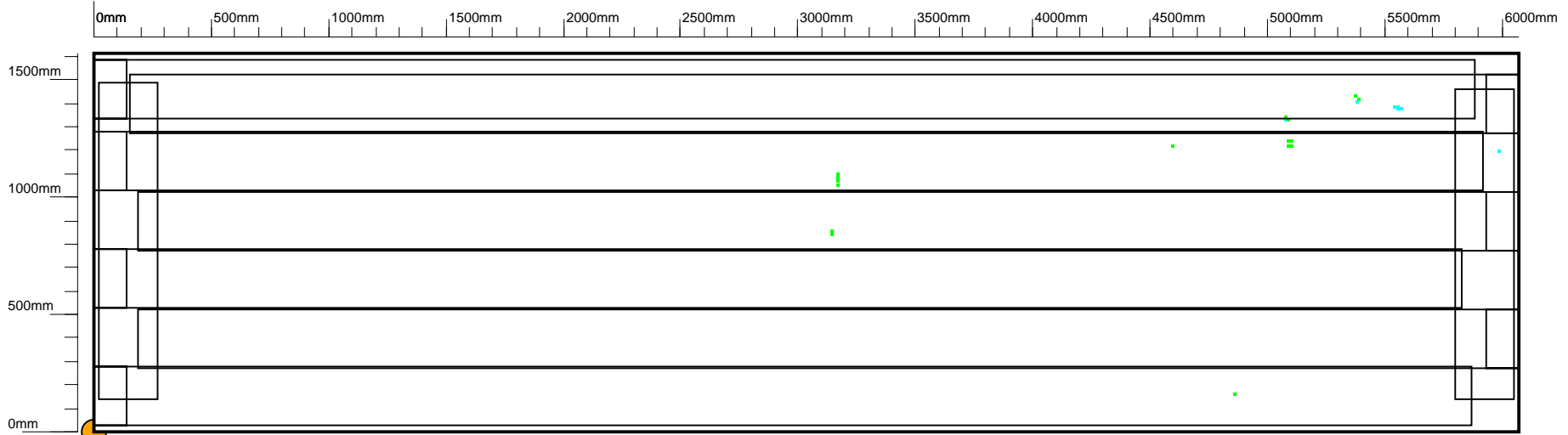
**Plate:** 4  
**Plate Width:** 1610  
**Scan Method:** Raster  
**Discontinuity Count:** 25  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 14  
**Plate Length:** 6070  
**Orientation:** Horizontal  
**Max discontinuity:** 59  
**Lower Threshold:** 40

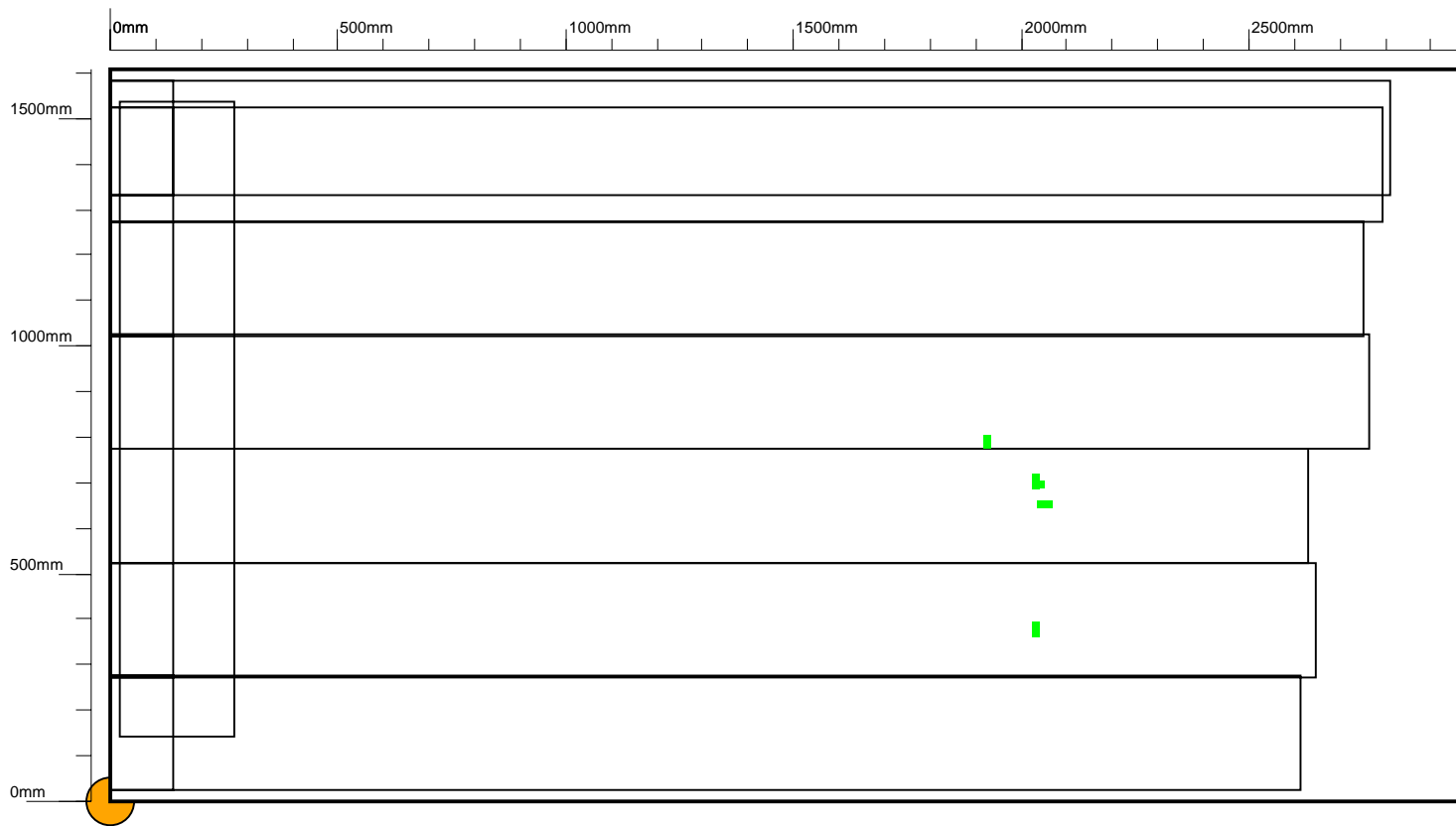
**Plate:** 5  
**Plate Width:** 1610  
**Scan Method:** Raster  
**Discontinuity Count:** 23  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





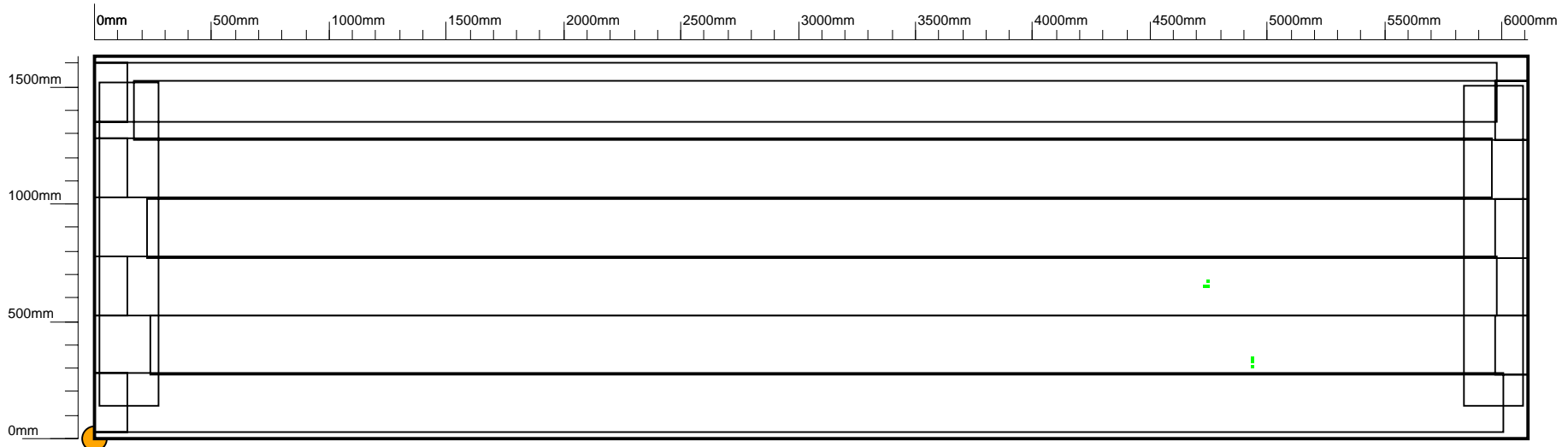
**Row:** 14  
**Plate Length:** 2970  
**Orientation:** Horizontal  
**Max discontinuity:** 49  
**Lower Threshold:** 40

**Plate:** 8  
**Plate Width:** 1610  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 9  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





**Row:** 15  
**Plate Length:** 6110  
**Orientation:** Horizontal  
**Max discontinuity:** 48  
**Lower Threshold:** 40

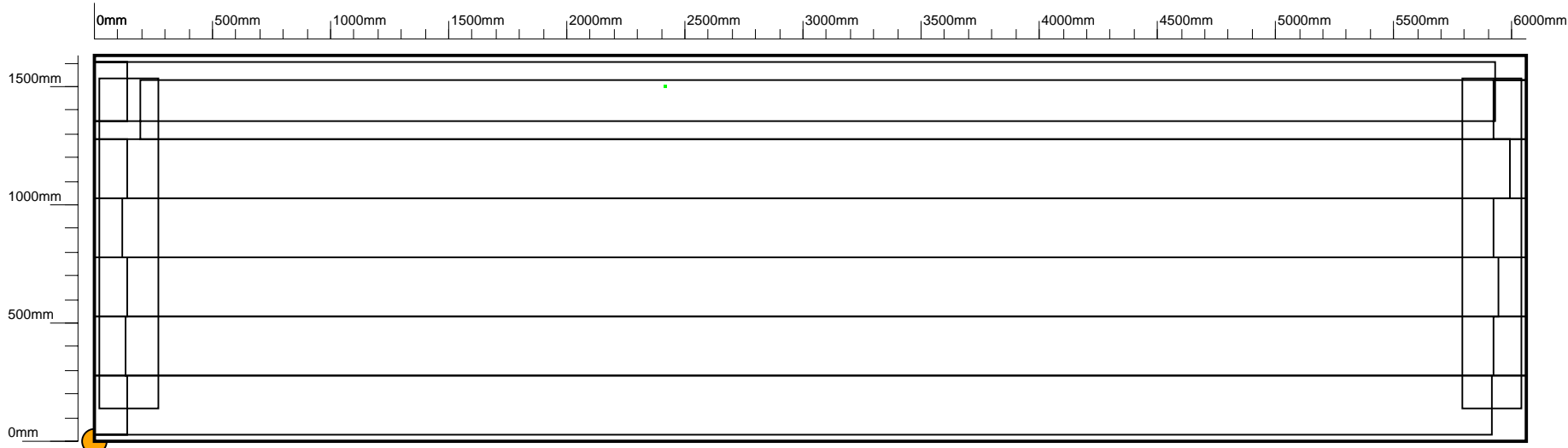
**Plate:** 3  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 6  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 15  
**Plate Length:** 6060  
**Orientation:** Horizontal  
**Max discontinuity:** 40  
**Lower Threshold:** 40

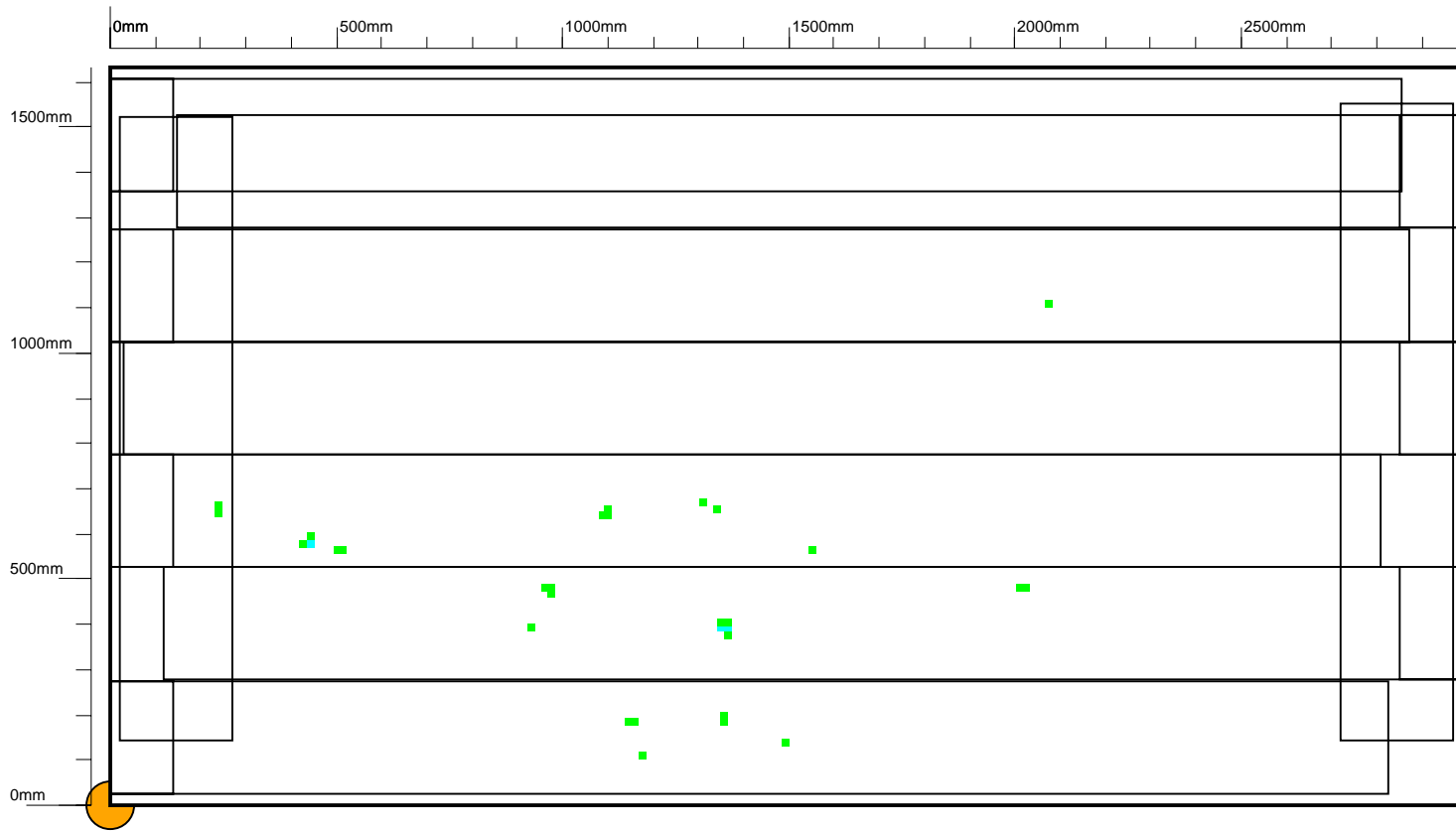
**Plate:** 4  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 1  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 15  
**Plate Length:** 2990  
**Orientation:** Horizontal  
**Max discontinuity:** 55  
**Lower Threshold:** 40

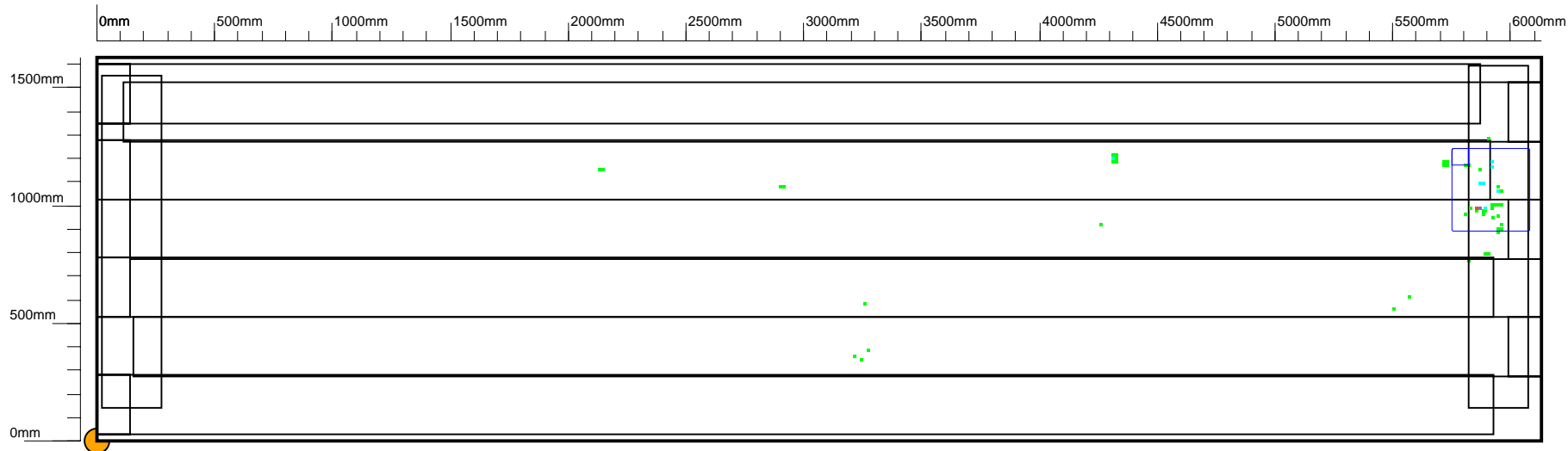
**Plate:** 5  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 31  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





**Row:** 15  
**Plate Length:** 6130  
**Orientation:** Horizontal  
**Max discontinuity:** 80  
**Lower Threshold:** 40

**Plate:** 6  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 55  
**Upper Threshold:** 100

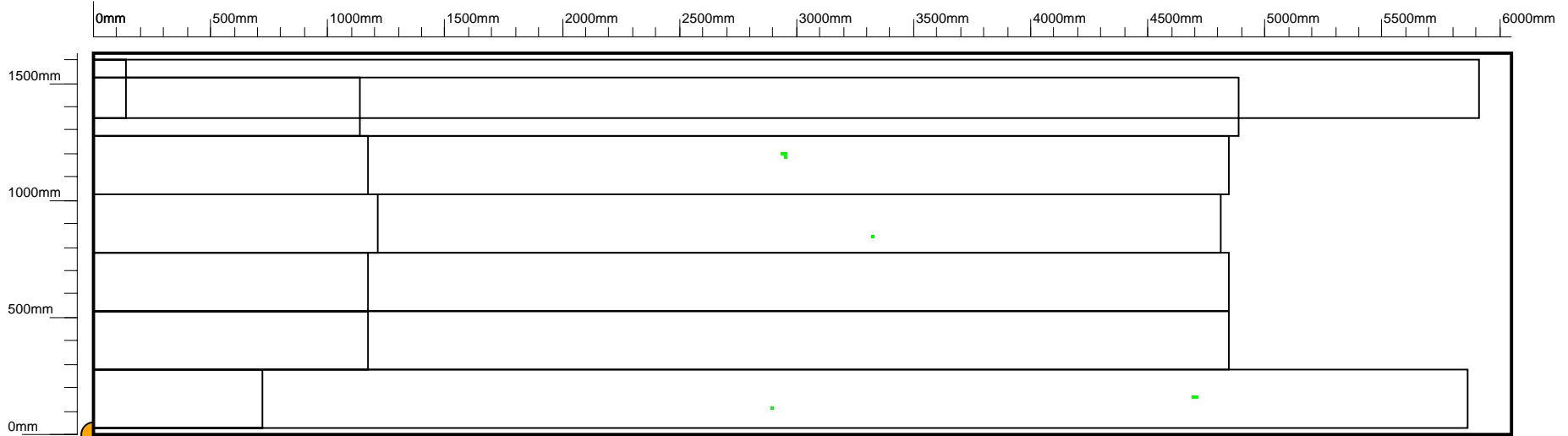
**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006



Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





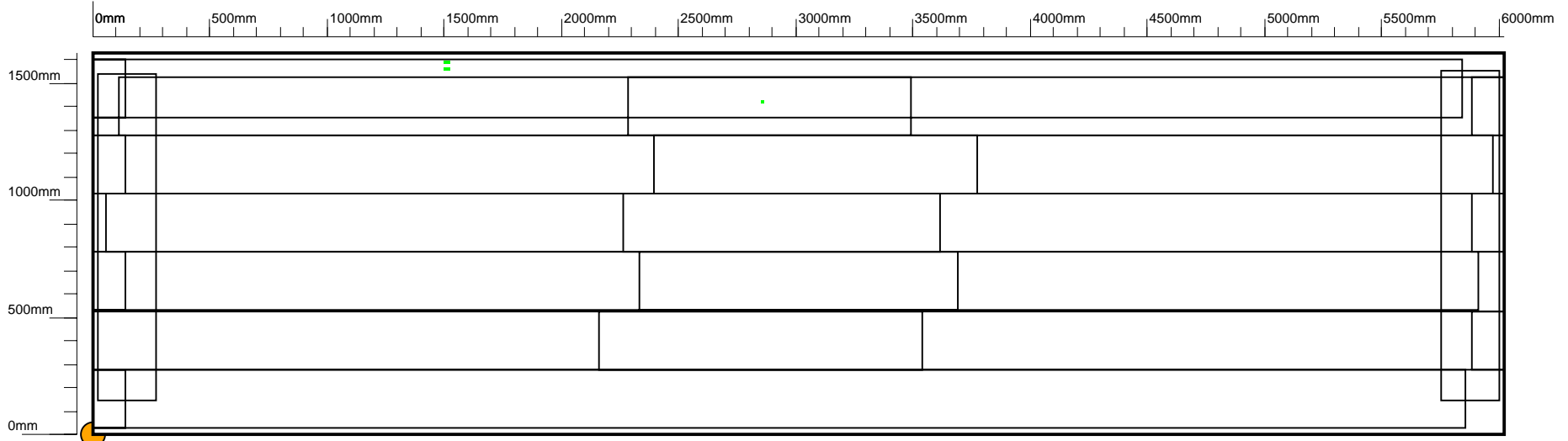
**Row:** 16  
**Plate Length:** 6050  
**Orientation:** Horizontal  
**Max discontinuity:** 45  
**Lower Threshold:** 40

**Plate:** 2  
**Plate Width:** 1630  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 7  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 16  
**Plate Length:** 6020  
**Orientation:** Horizontal  
**Max discontinuity:** 46  
**Lower Threshold:** 40

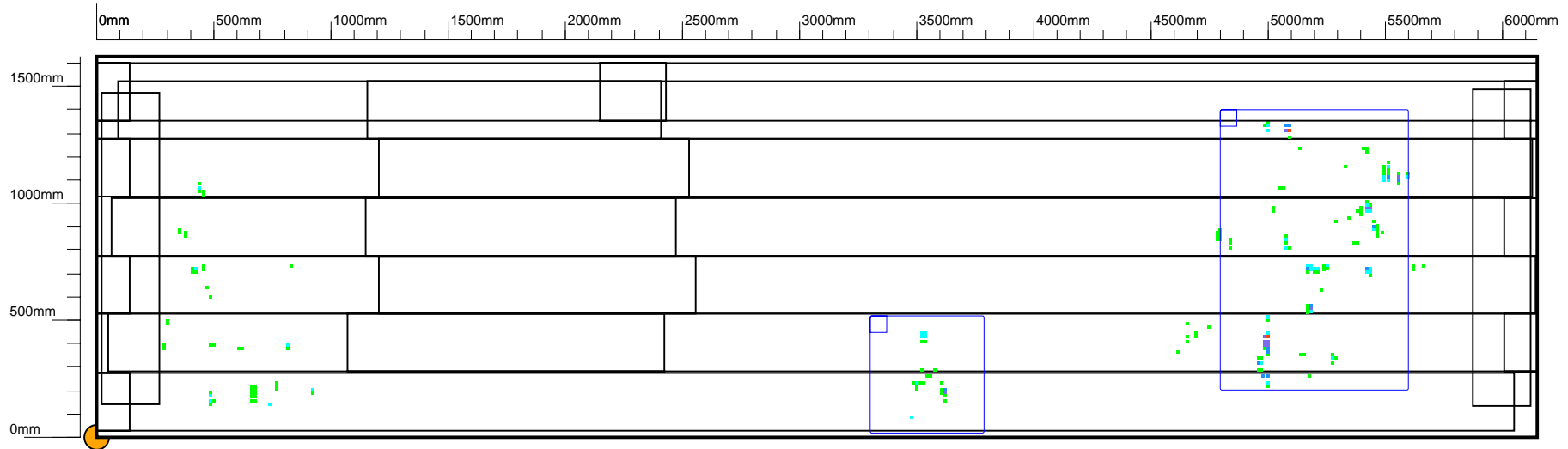
**Plate:** 4  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 5  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





**Row:** 16  
**Plate Length:** 6150  
**Orientation:** Horizontal  
**Max discontinuity:** 80  
**Lower Threshold:** 40

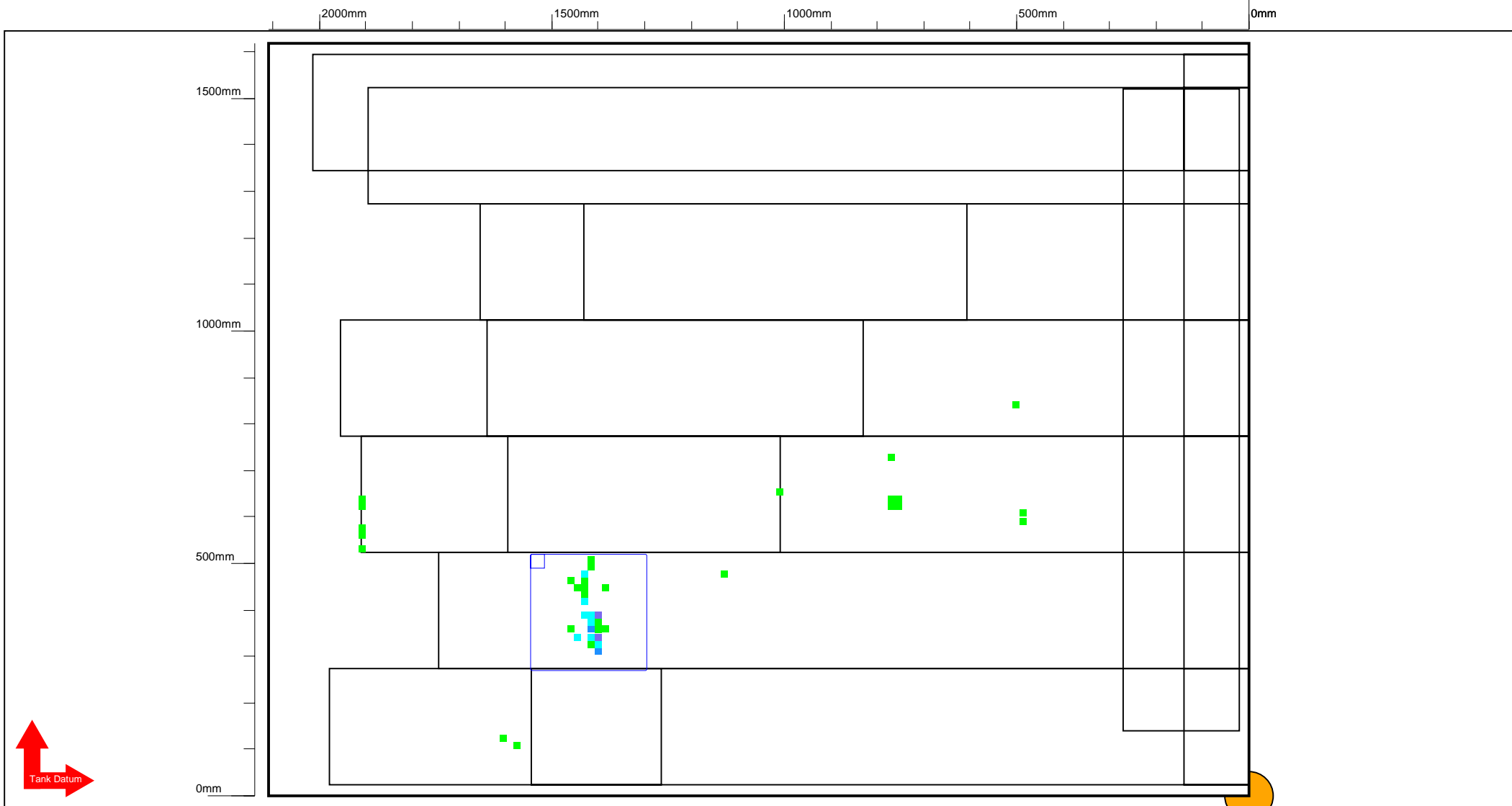
**Plate:** 5  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 211  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 17  
**Plate Length:** 2110  
**Orientation:** Horizontal  
**Max discontinuity:** 73  
**Lower Threshold:** 40

**Plate:** 1  
**Plate Width:** 1620  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 42  
**Upper Threshold:** 100

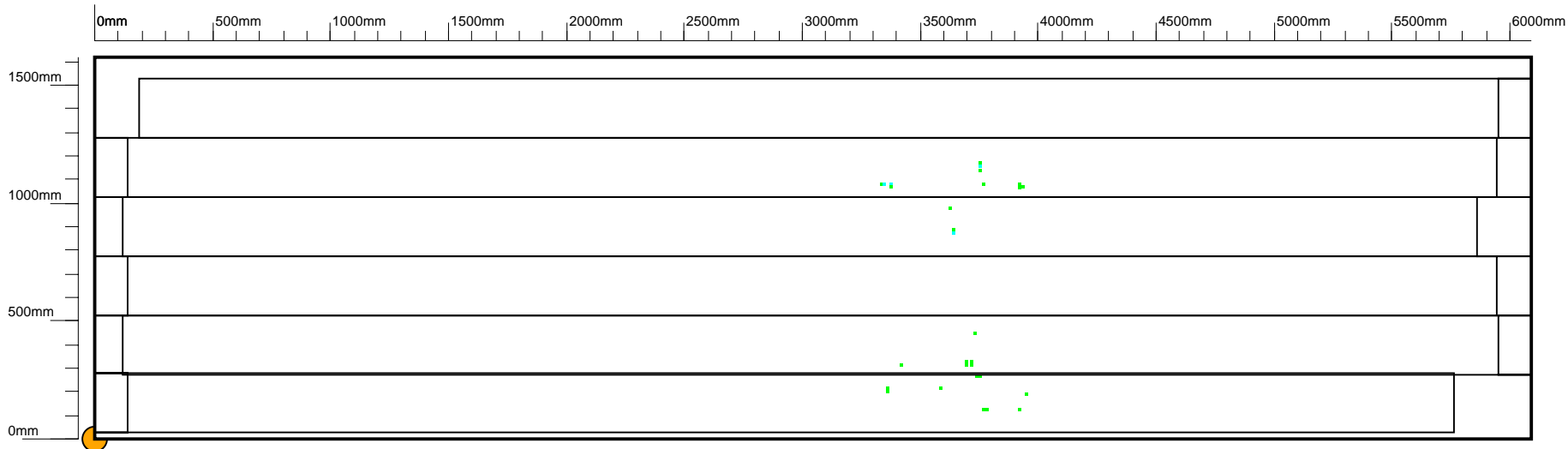
**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006



Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 17  
**Plate Length:** 6090  
**Orientation:** Horizontal  
**Max discontinuity:** 54  
**Lower Threshold:** 40

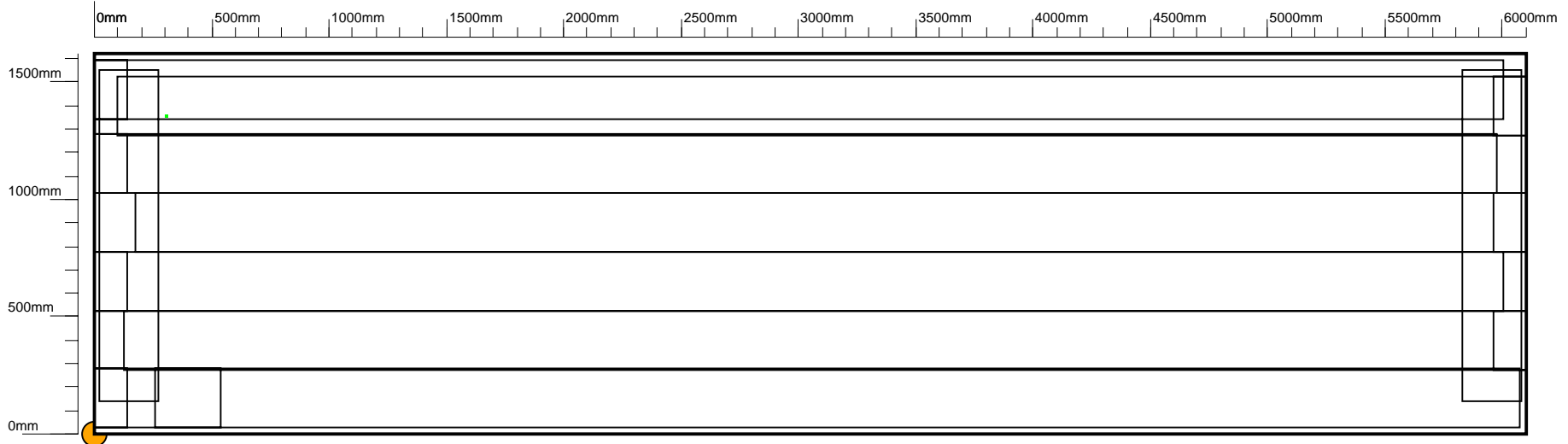
**Plate:** 2  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 29  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 17  
**Plate Length:** 6100  
**Orientation:** Horizontal  
**Max discontinuity:** 40  
**Lower Threshold:** 40

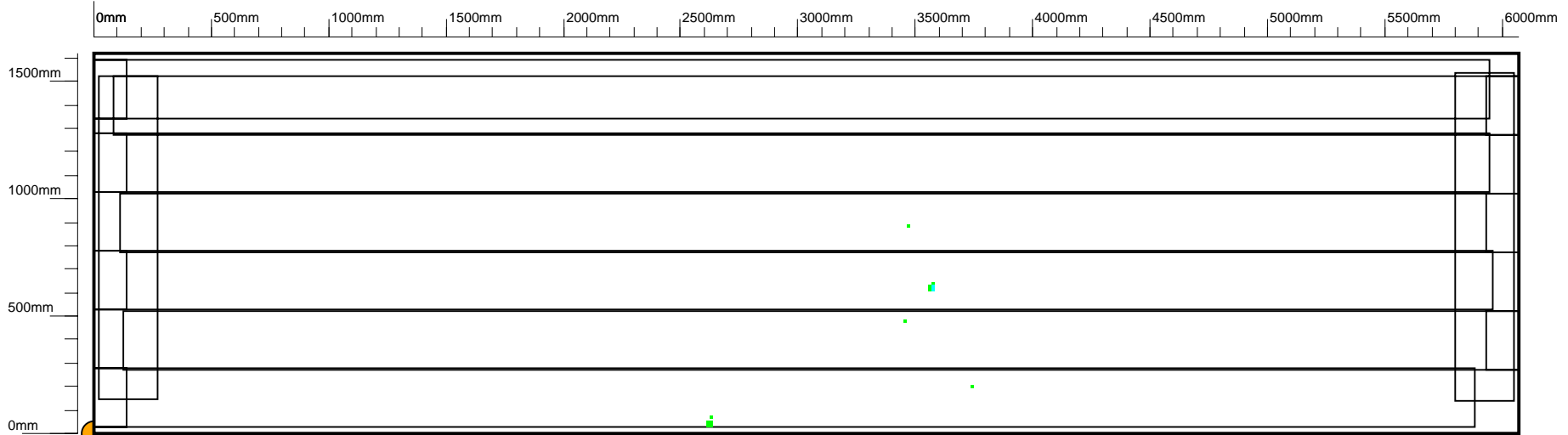
**Plate:** 4  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 1  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 17  
**Plate Length:** 6070  
**Orientation:** Horizontal  
**Max discontinuity:** 50  
**Lower Threshold:** 40

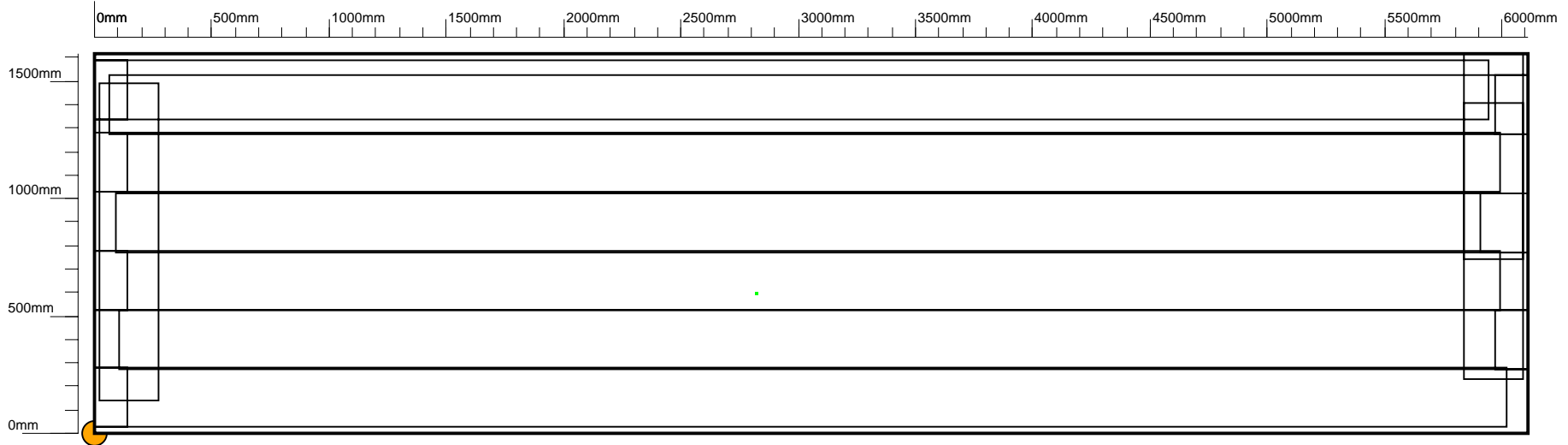
**Plate:** 5  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 13  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 17  
**Plate Length:** 6110  
**Orientation:** Horizontal  
**Max discontinuity:** 41  
**Lower Threshold:** 40

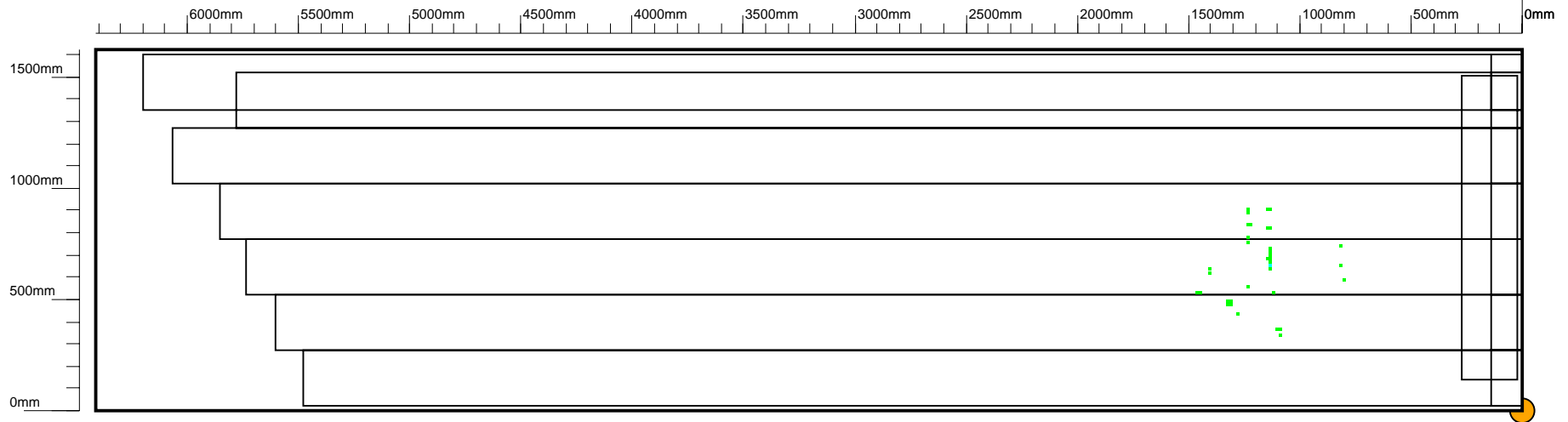
**Plate:** 6  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 1  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





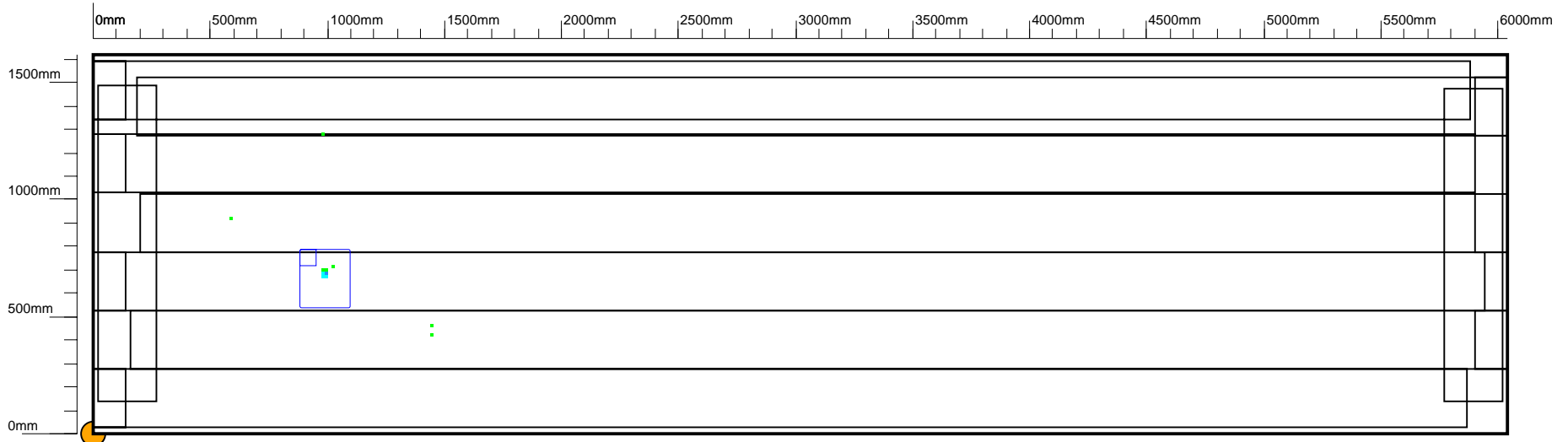
**Row:** 18  
**Plate Length:** 6410  
**Orientation:** Horizontal  
**Max discontinuity:** 52  
**Lower Threshold:** 40

**Plate:** 1  
**Plate Width:** 1620  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 35  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 18  
**Plate Length:** 6040  
**Orientation:** Horizontal  
**Max discontinuity:** 61  
**Lower Threshold:** 40

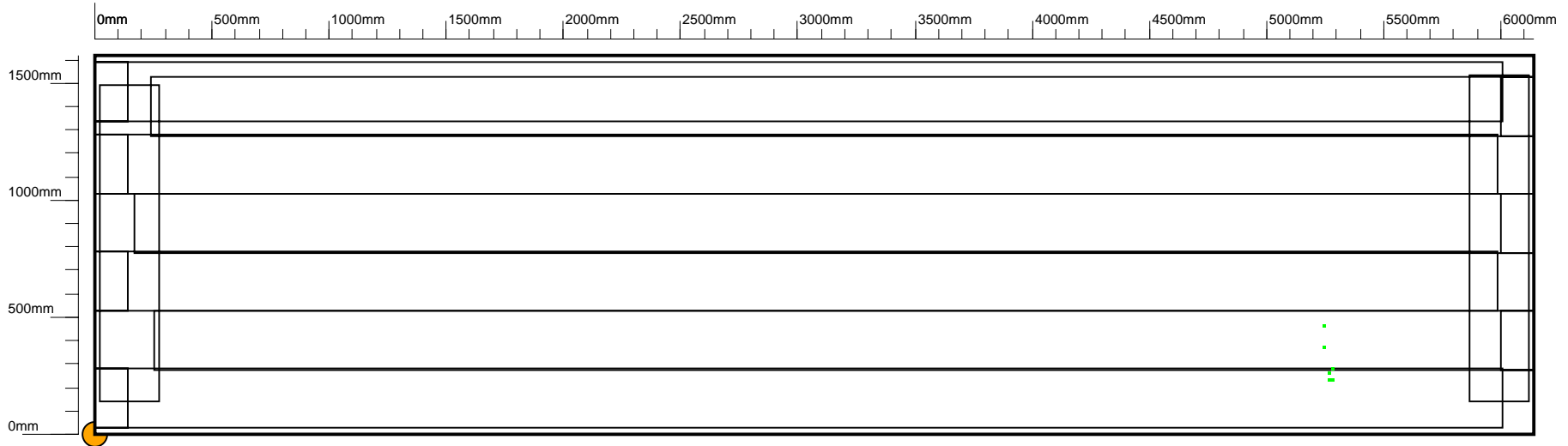
**Plate:** 2  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 11  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 18  
**Plate Length:** 6140  
**Orientation:** Horizontal  
**Max discontinuity:** 46  
**Lower Threshold:** 40

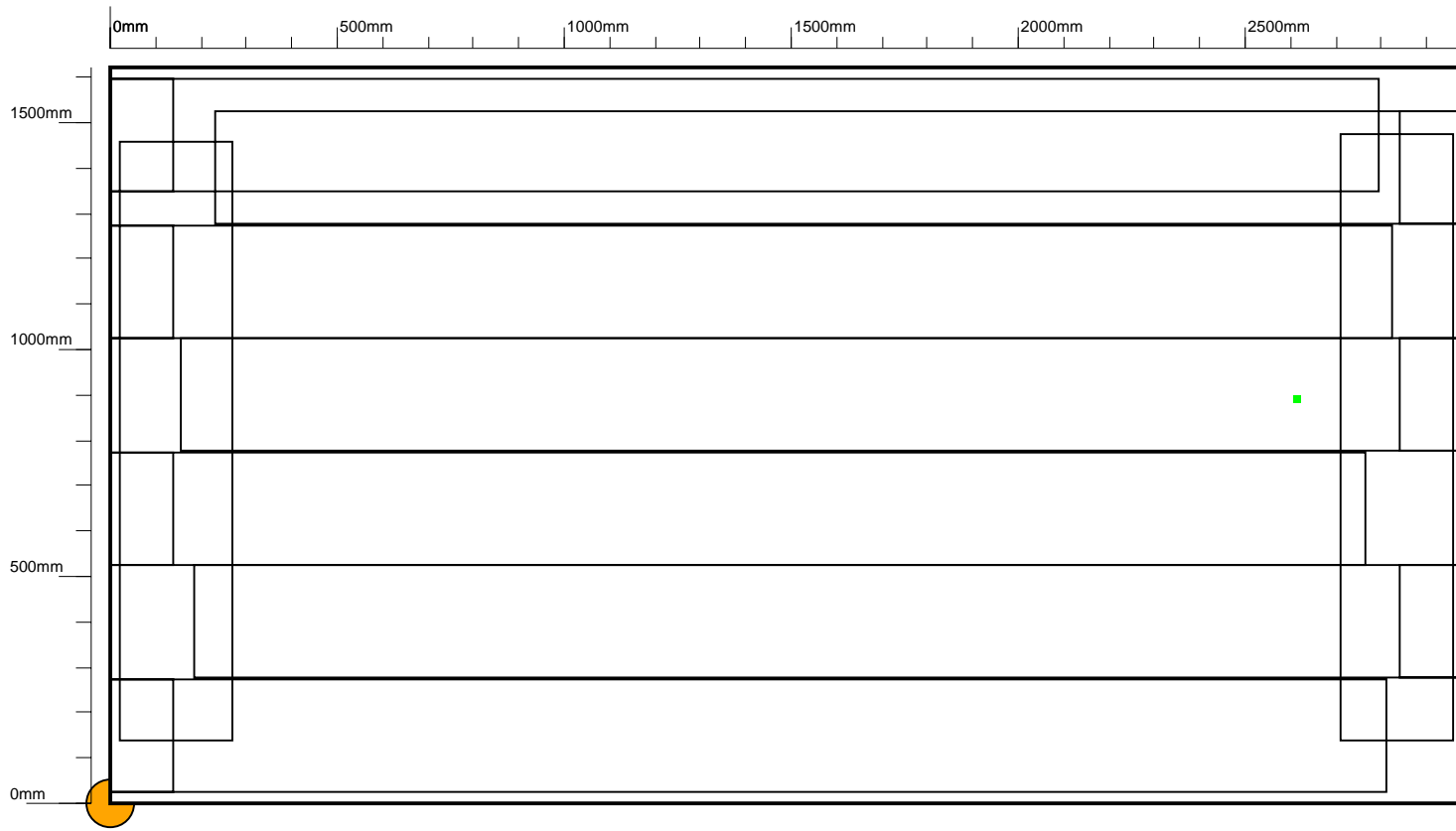
**Plate:** 3  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 6  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 18  
**Plate Length:** 2980  
**Orientation:** Horizontal  
**Max discontinuity:** 40  
**Lower Threshold:** 40

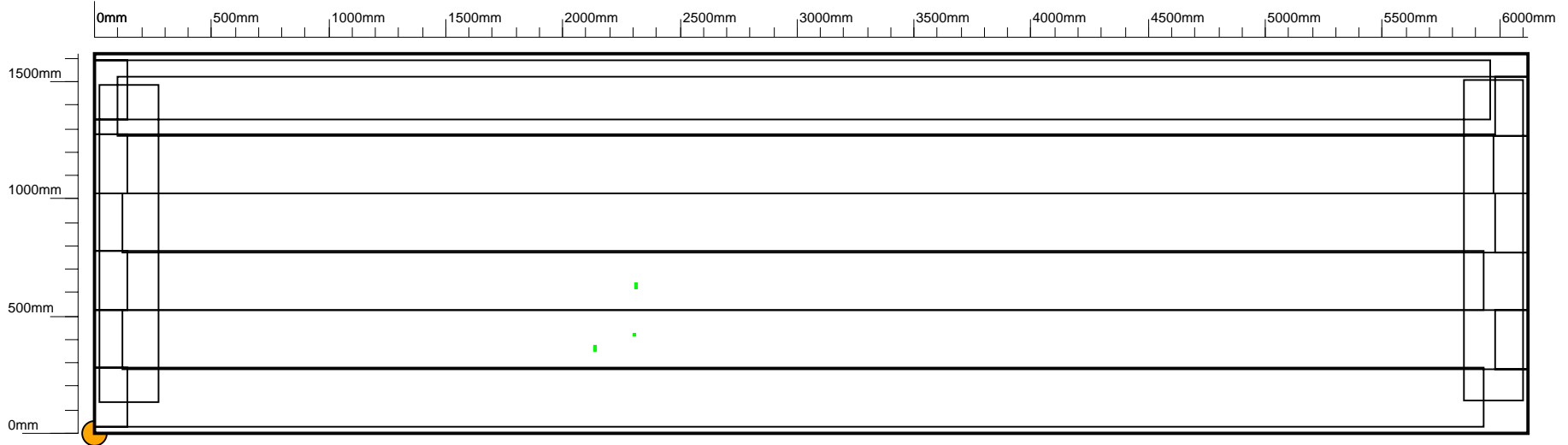
**Plate:** 4  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 1  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





**Row:** 18  
**Plate Length:** 6120  
**Orientation:** Horizontal  
**Max discontinuity:** 44  
**Lower Threshold:** 40

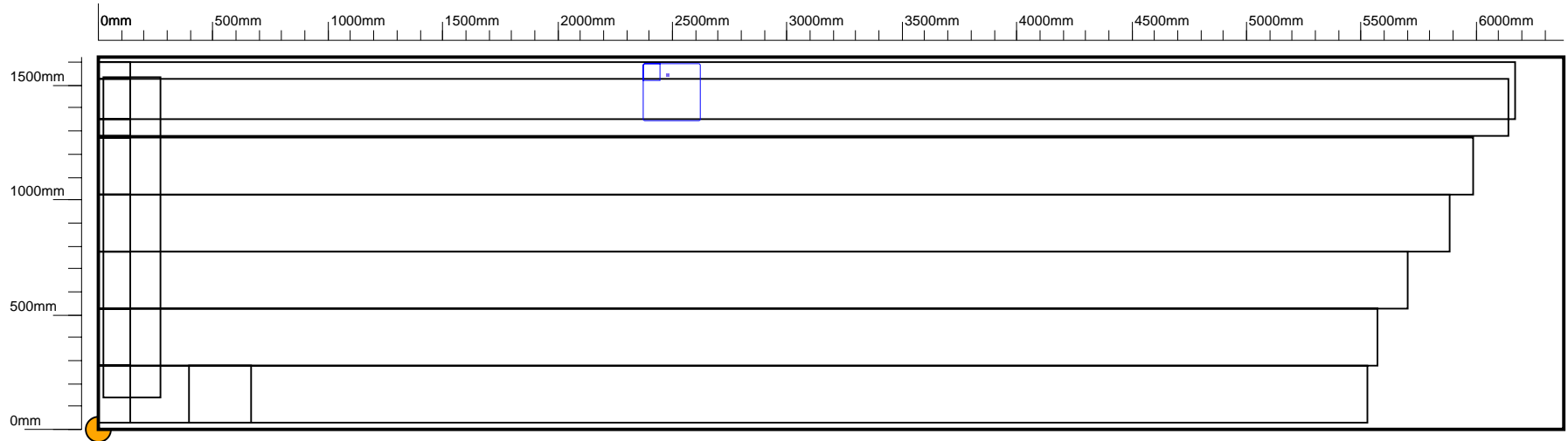
**Plate:** 5  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 5  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





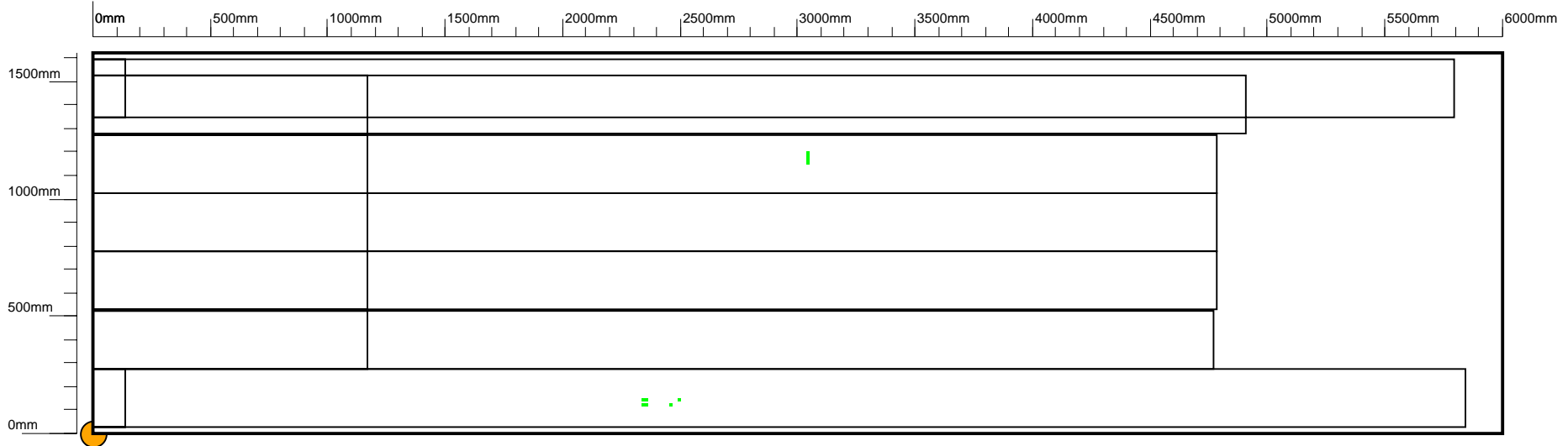
**Row:** 18  
**Plate Length:** 6380  
**Orientation:** Horizontal  
**Max discontinuity:** 75  
**Lower Threshold:** 40

**Plate:** 7  
**Plate Width:** 1620  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 1  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





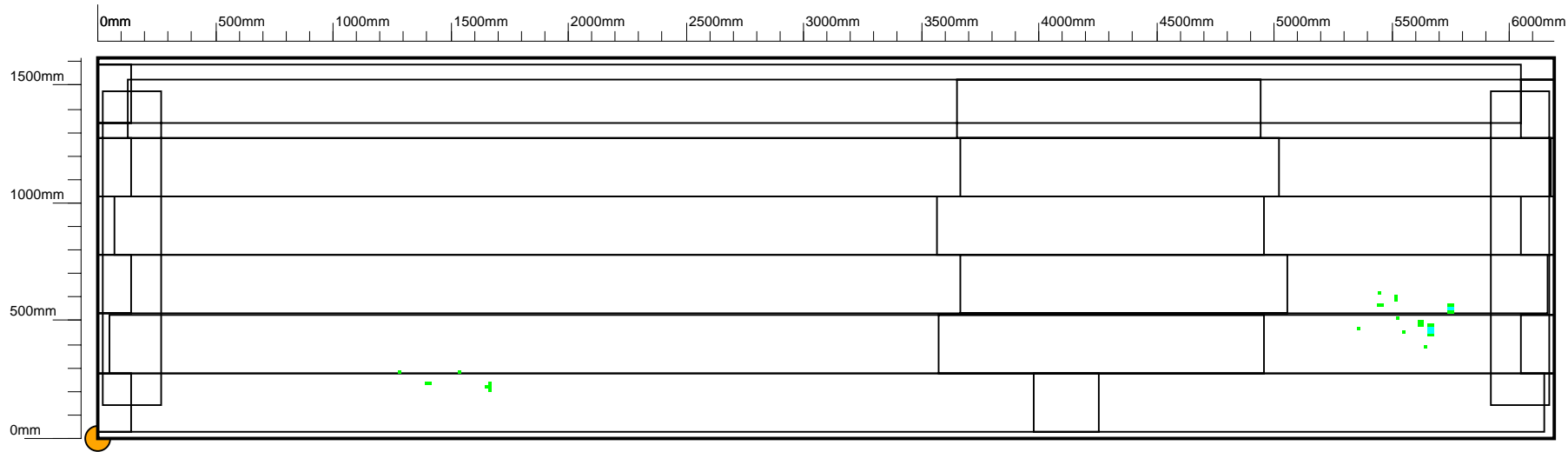
**Row:** 19  
**Plate Length:** 6000  
**Orientation:** Horizontal  
**Max discontinuity:** 45  
**Lower Threshold:** 40

**Plate:** 2  
**Plate Width:** 1620  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 10  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 19  
**Plate Length:** 6190  
**Orientation:** Horizontal  
**Max discontinuity:** 59  
**Lower Threshold:** 40

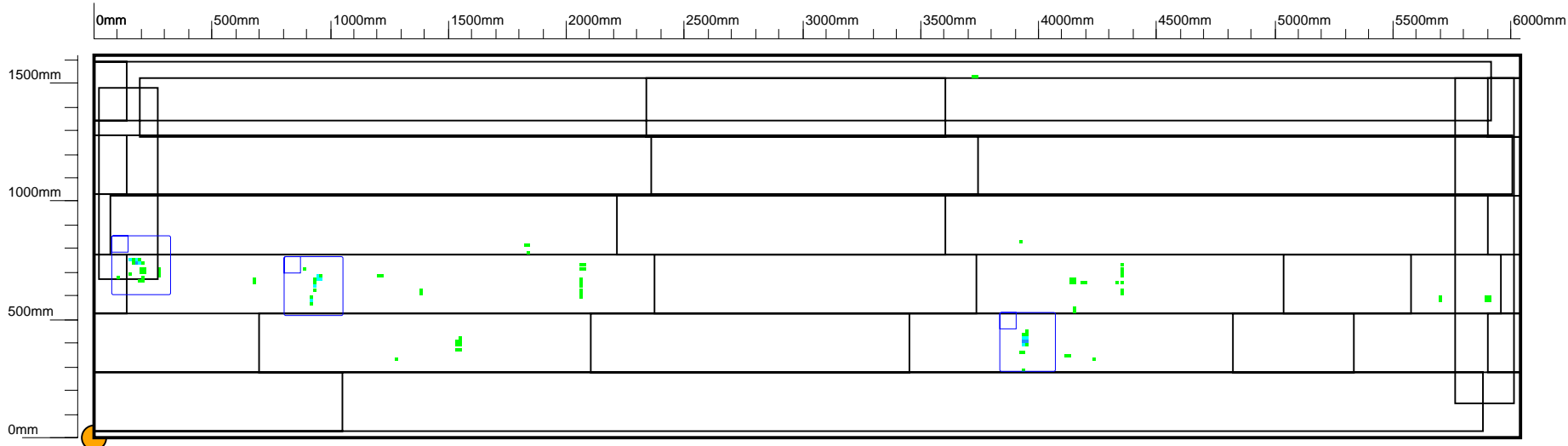
**Plate:** 3  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 35  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 19  
**Plate Length:** 6040  
**Orientation:** Horizontal  
**Max discontinuity:** 63  
**Lower Threshold:** 40

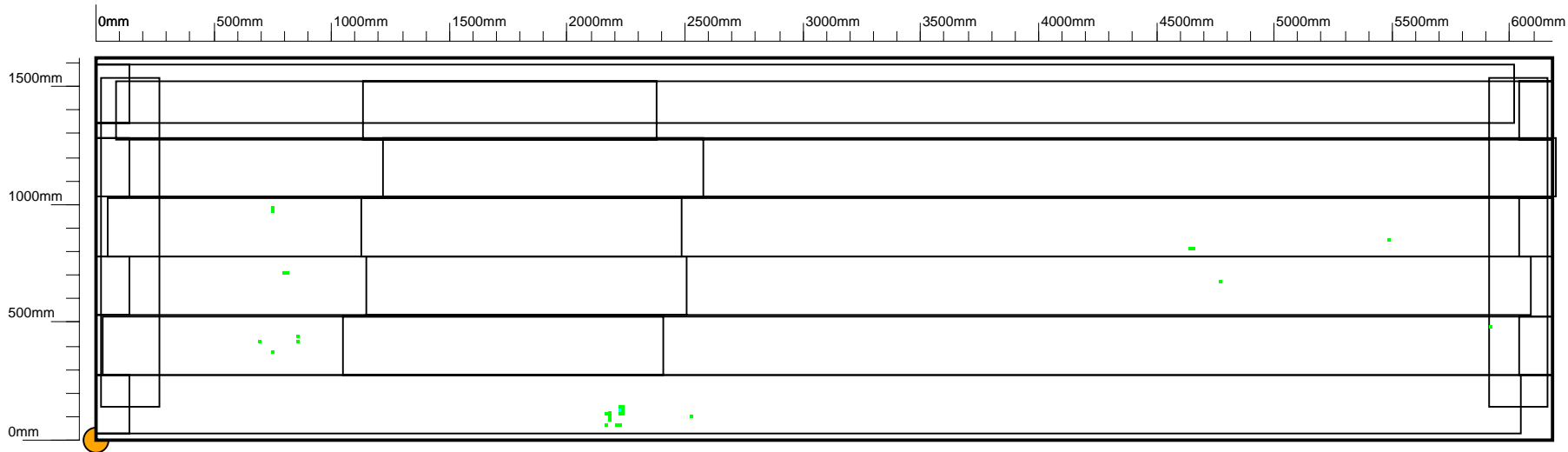
**Plate:** 4  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 99  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 19  
**Plate Length:** 6180  
**Orientation:** Horizontal  
**Max discontinuity:** 50  
**Lower Threshold:** 40

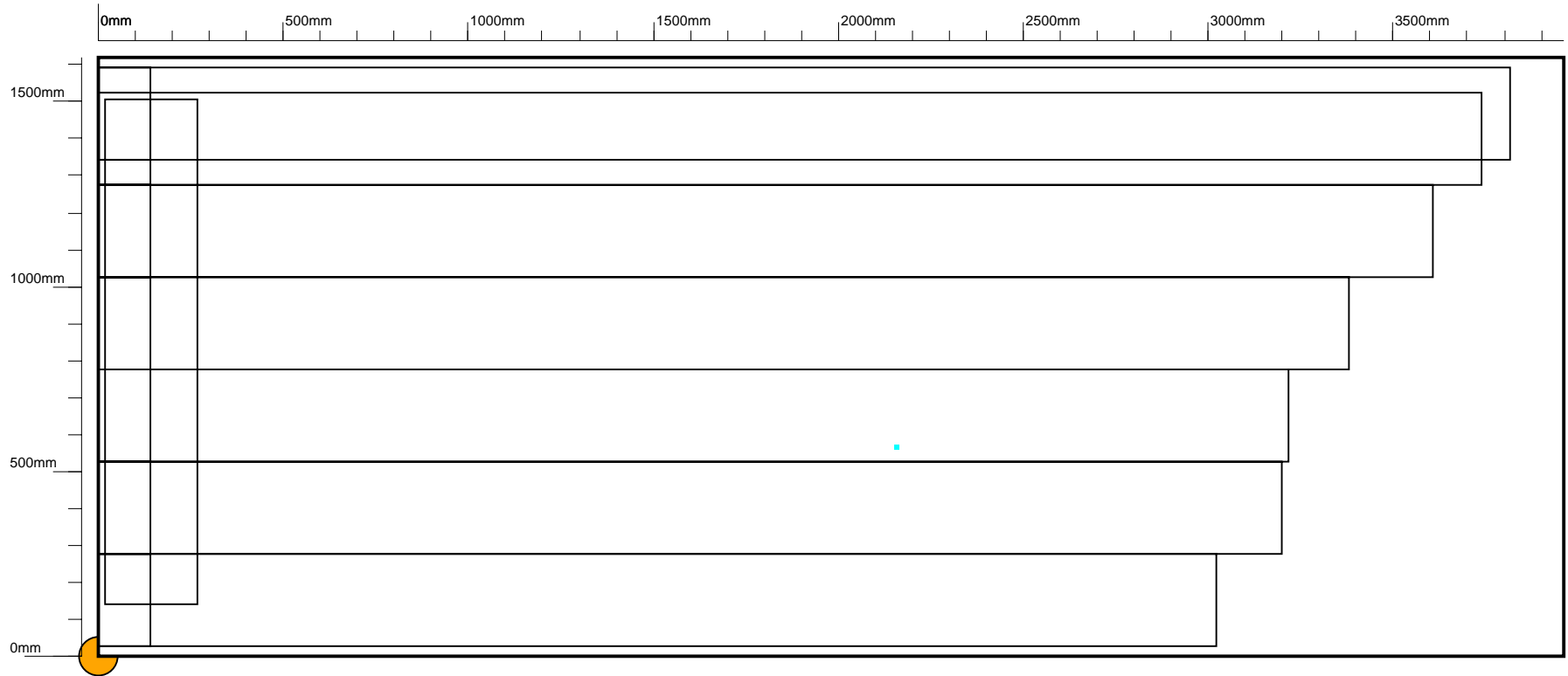
**Plate:** 5  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 27  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 19  
**Plate Length:** 3960  
**Orientation:** Horizontal  
**Max discontinuity:** 50  
**Lower Threshold:** 40

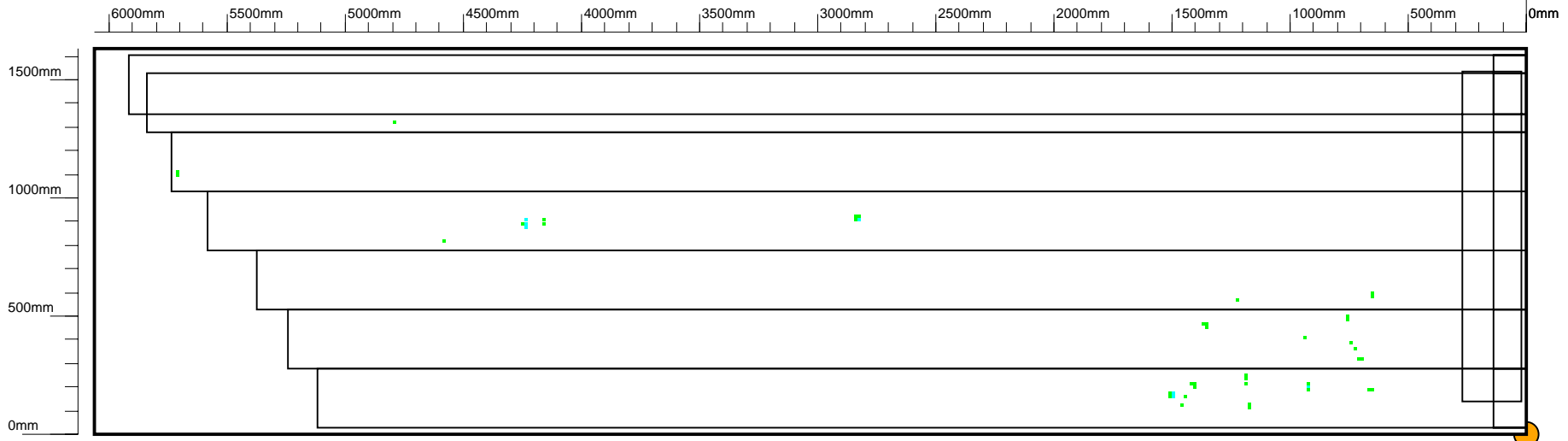
**Plate:** 7  
**Plate Width:** 1620  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 1  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006



Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





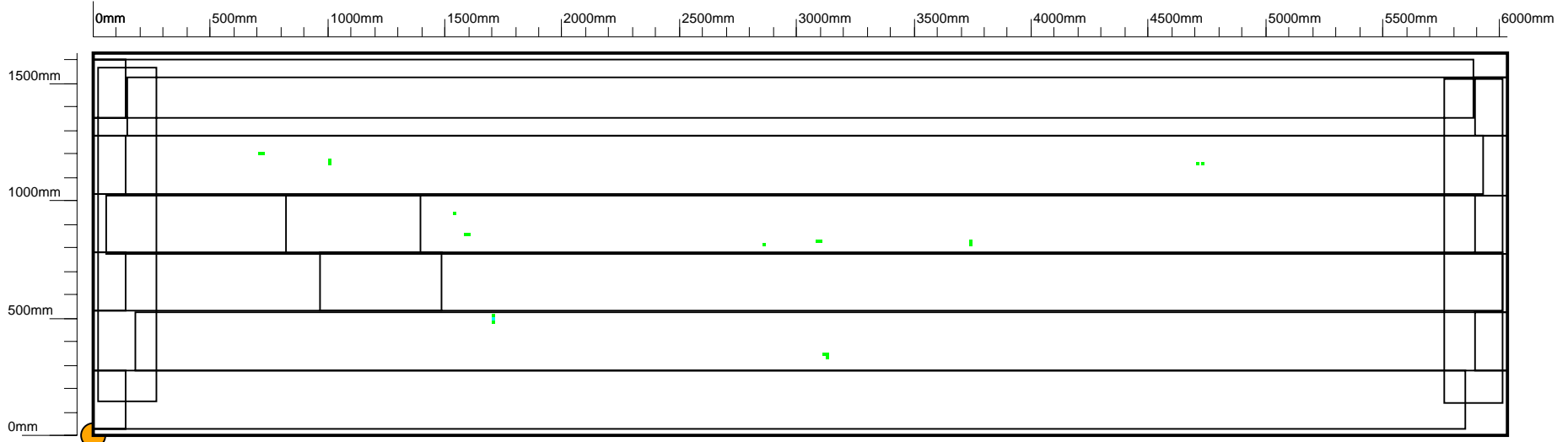
**Row:** 20  
**Plate Length:** 6060  
**Orientation:** Horizontal  
**Max discontinuity:** 58  
**Lower Threshold:** 40

**Plate:** 1  
**Plate Width:** 1630  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 46  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 20  
**Plate Length:** 6030  
**Orientation:** Horizontal  
**Max discontinuity:** 51  
**Lower Threshold:** 40

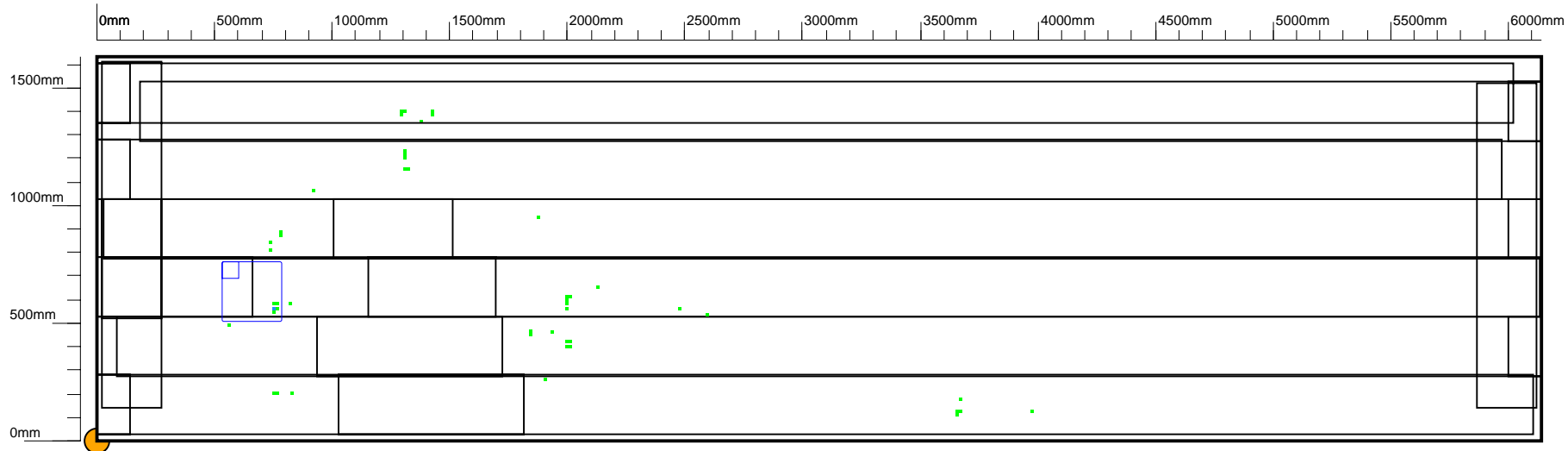
**Plate:** 2  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 20  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 20  
**Plate Length:** 6140  
**Orientation:** Horizontal  
**Max discontinuity:** 60  
**Lower Threshold:** 40

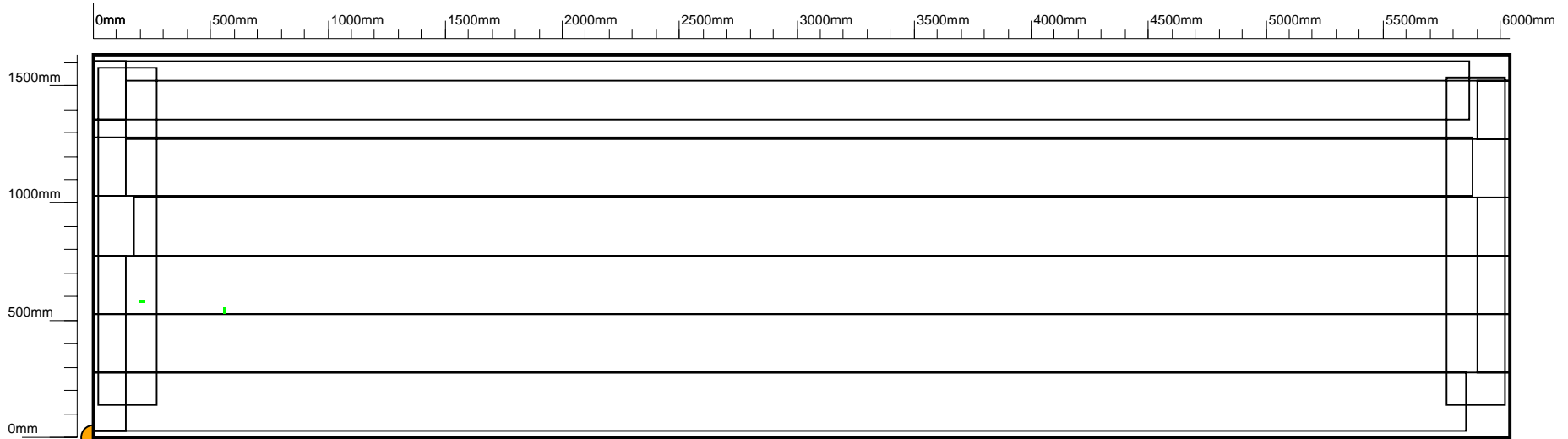
**Plate:** 3  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 48  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 20  
**Plate Length:** 6040  
**Orientation:** Horizontal  
**Max discontinuity:** 48  
**Lower Threshold:** 40

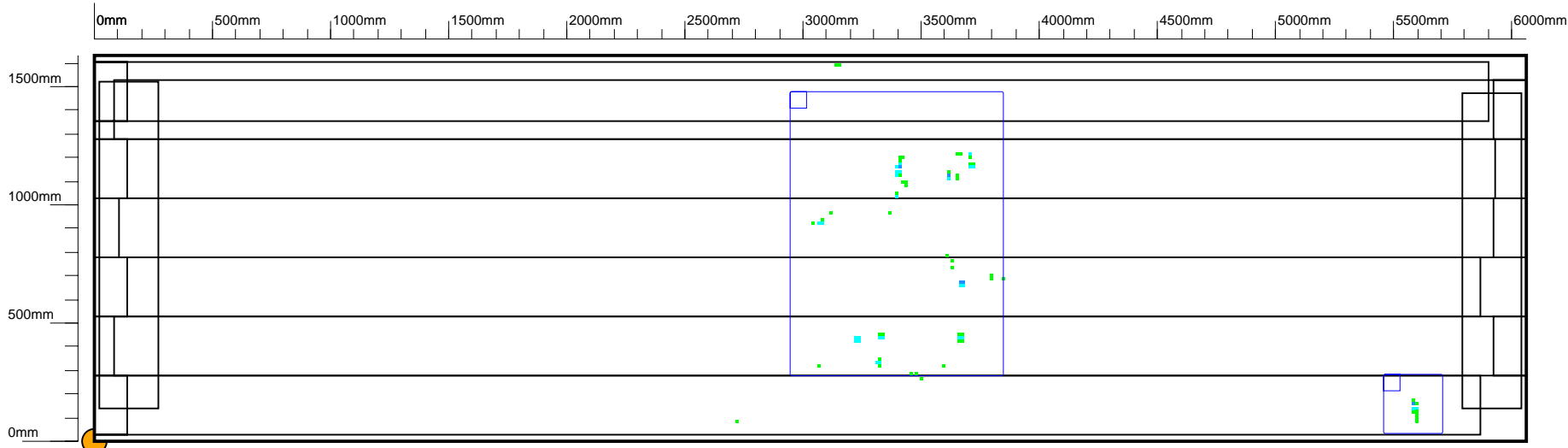
**Plate:** 4  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 4  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





**Row:** 20  
**Plate Length:** 6060  
**Orientation:** Horizontal  
**Max discontinuity:** 65  
**Lower Threshold:** 40

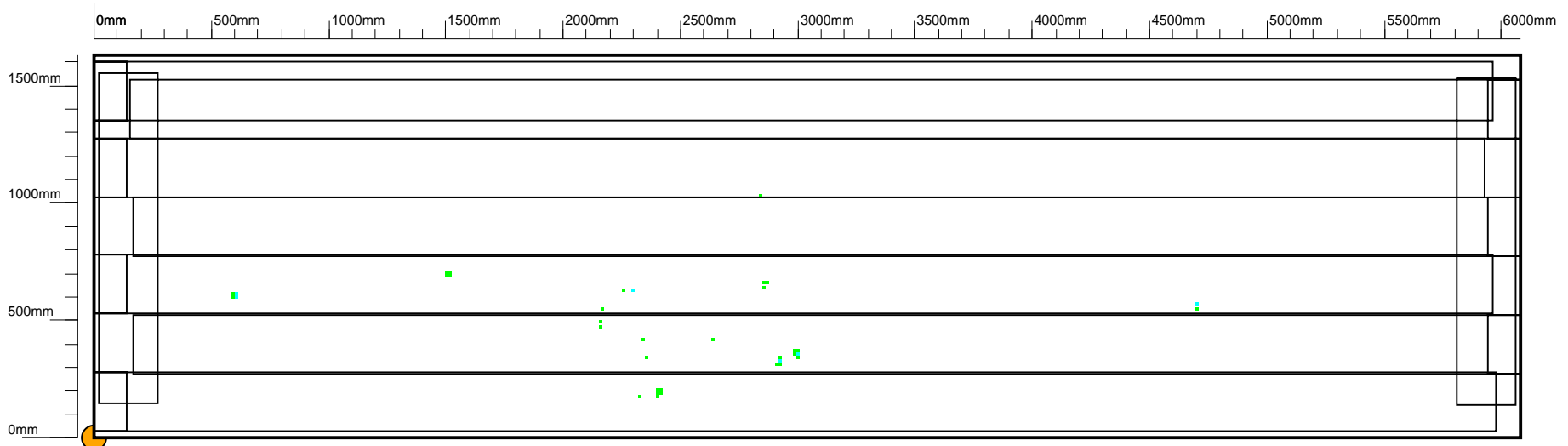
**Plate:** 5  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 80  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





**Row:** 21  
**Plate Length:** 6080  
**Orientation:** Horizontal  
**Max discontinuity:** 56  
**Lower Threshold:** 40

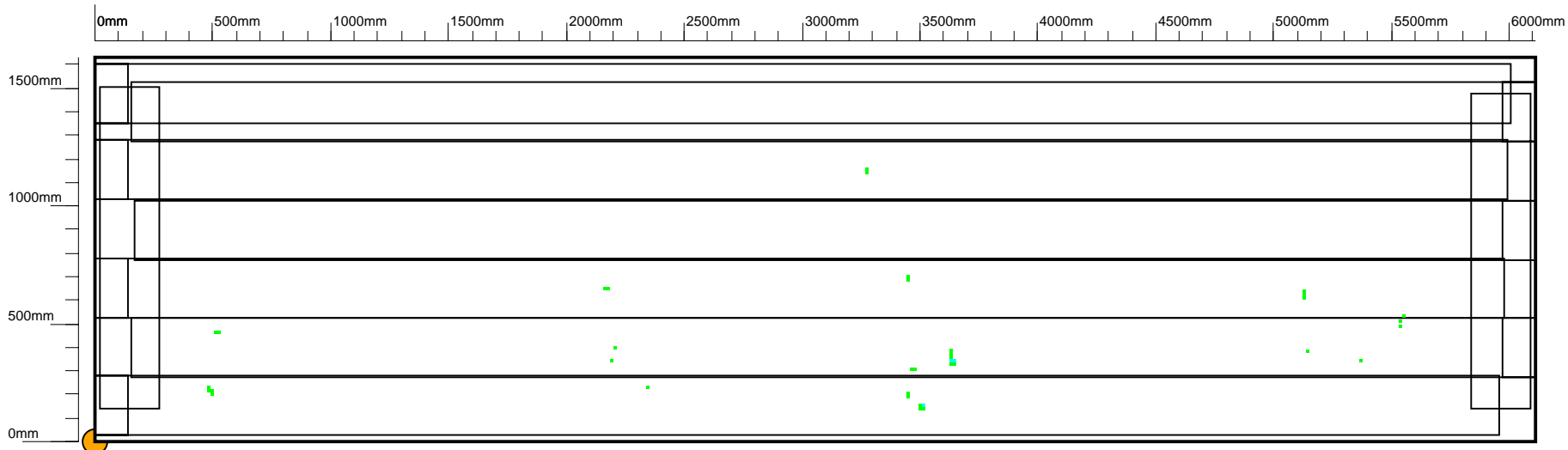
**Plate:** 2  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 37  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 21  
**Plate Length:** 6110  
**Orientation:** Horizontal  
**Max discontinuity:** 51  
**Lower Threshold:** 40

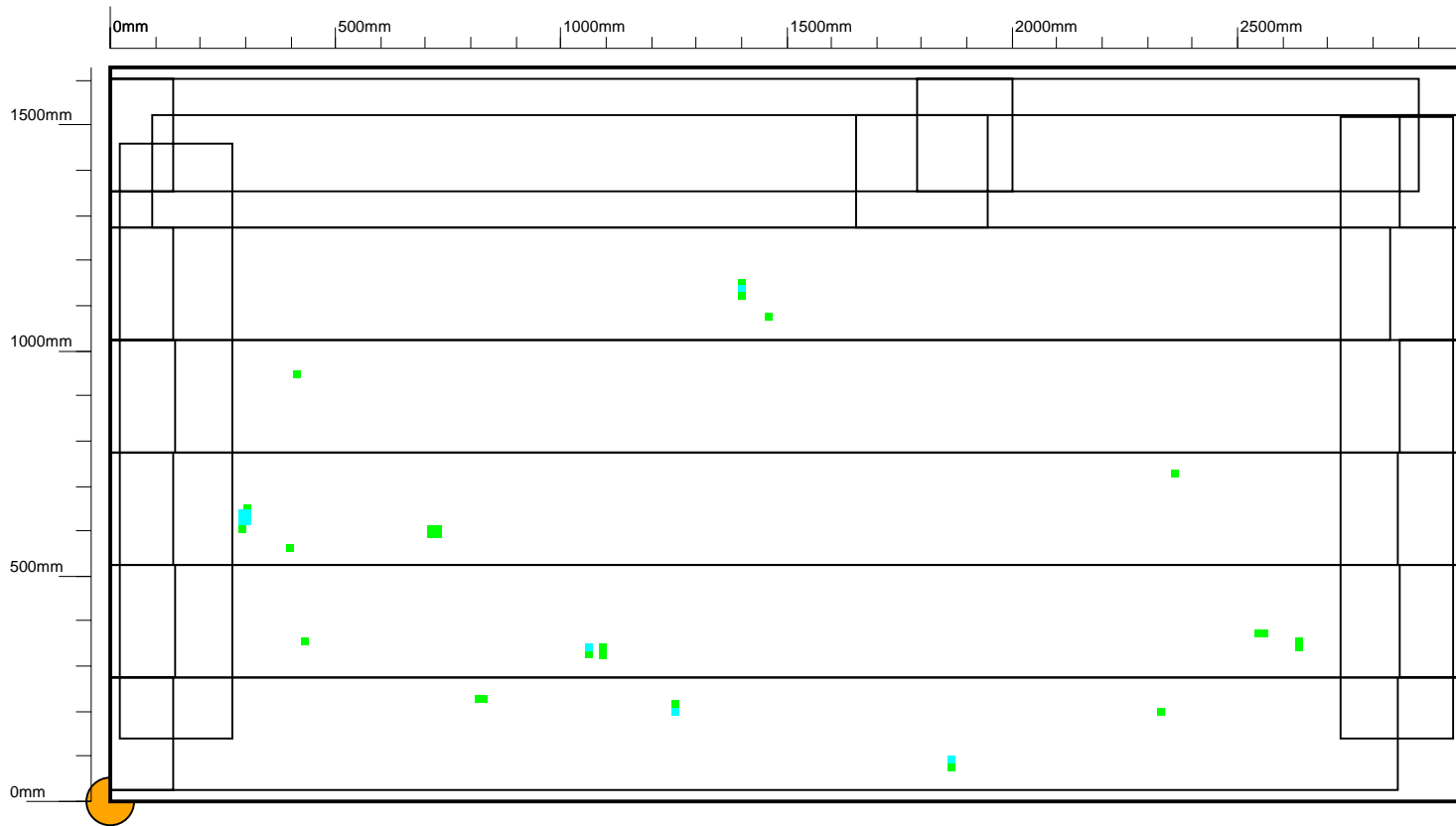
**Plate:** 3  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 38  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 21  
**Plate Length:** 3000  
**Orientation:** Horizontal  
**Max discontinuity:** 59  
**Lower Threshold:** 40

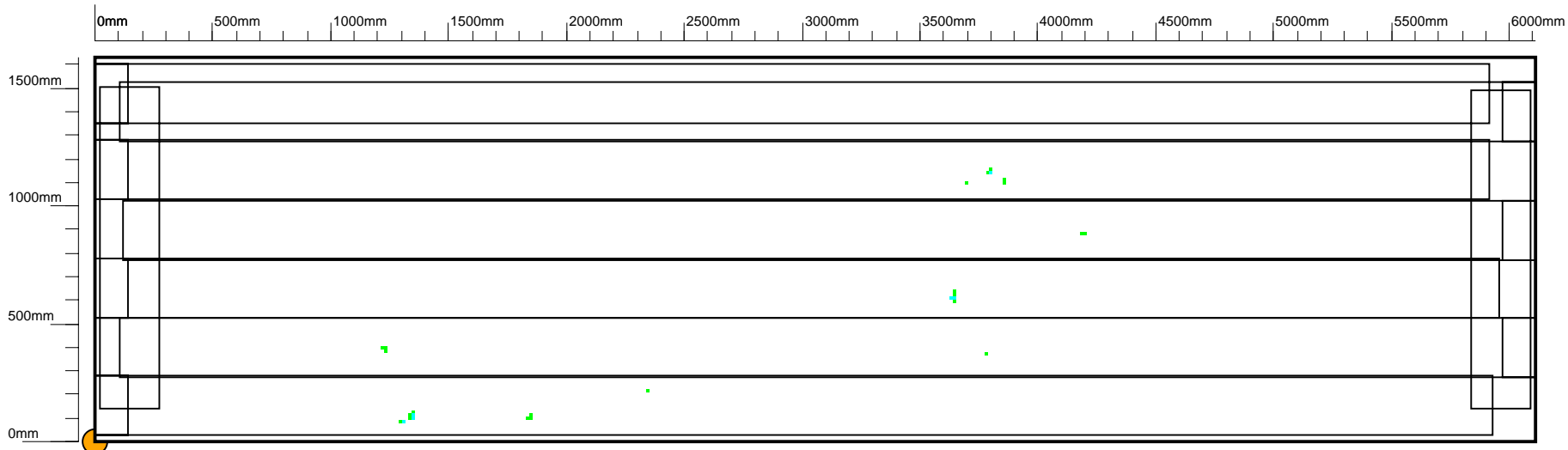
**Plate:** 4  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 33  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





**Row:** 21  
**Plate Length:** 6110  
**Orientation:** Horizontal  
**Max discontinuity:** 56  
**Lower Threshold:** 40

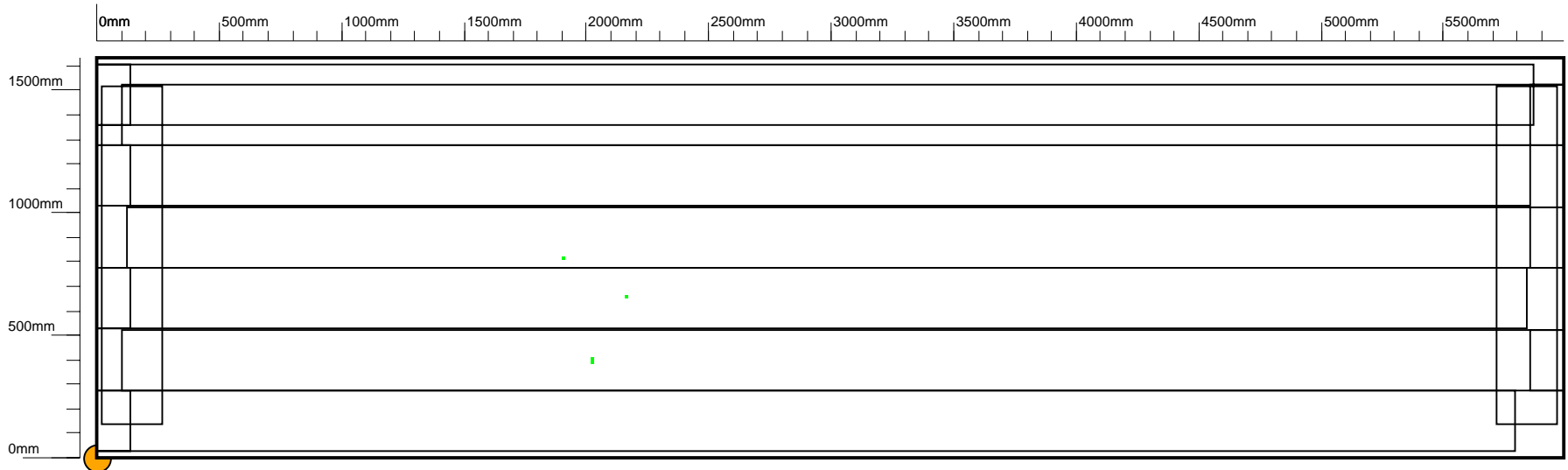
**Plate:** 5  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 28  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 21  
**Plate Length:** 5990  
**Orientation:** Horizontal  
**Max discontinuity:** 47  
**Lower Threshold:** 40

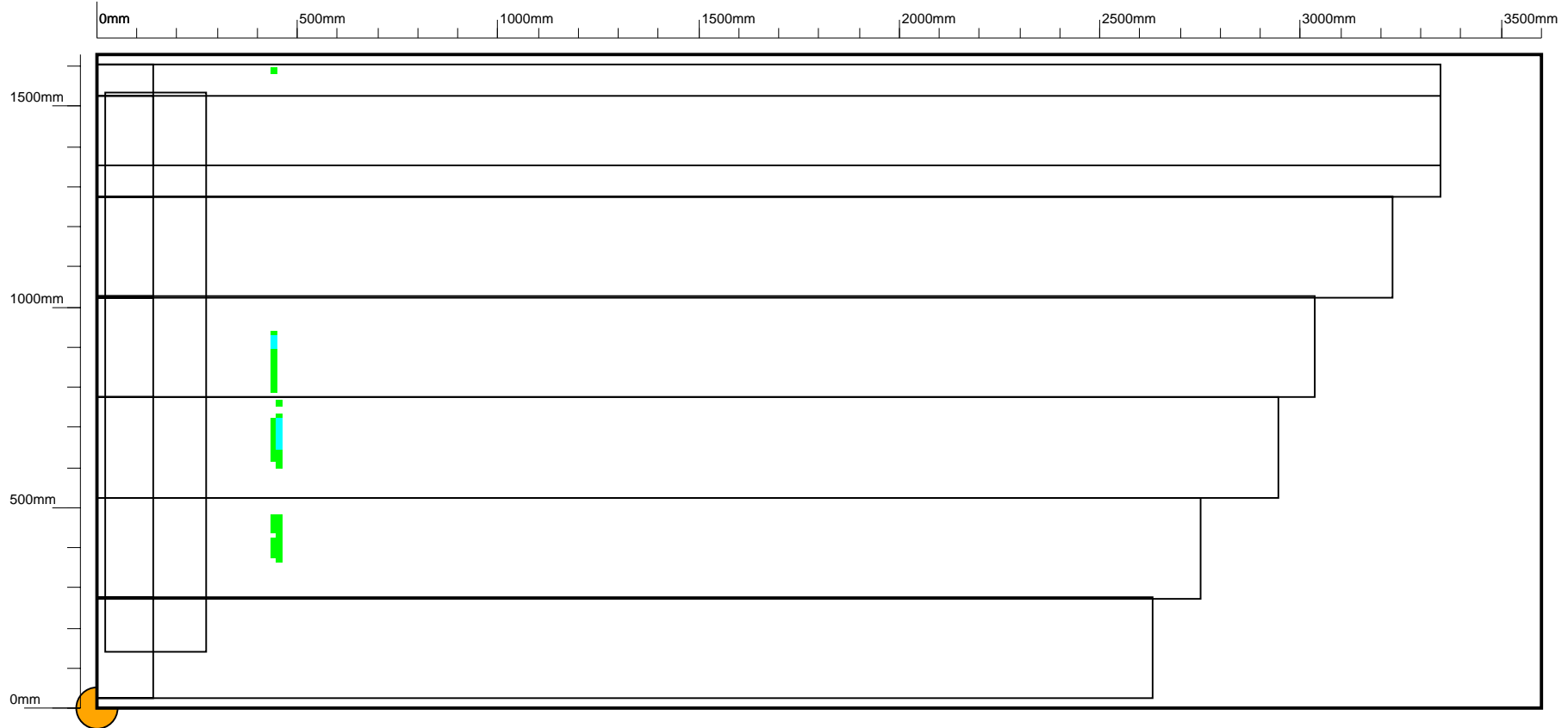
**Plate:** 6  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 4  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 21  
**Plate Length:** 3600  
**Orientation:** Horizontal  
**Max discontinuity:** 55  
**Lower Threshold:** 40

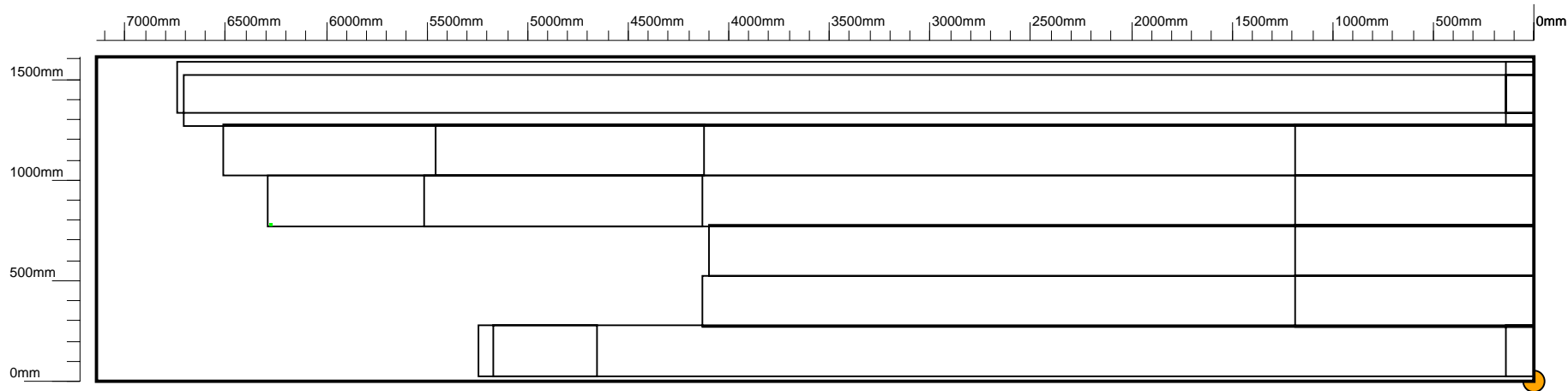
**Plate:** 7  
**Plate Width:** 1630  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 42  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006



Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 22  
**Plate Length:** 7140  
**Orientation:** Horizontal  
**Max discontinuity:** 40  
**Lower Threshold:** 40

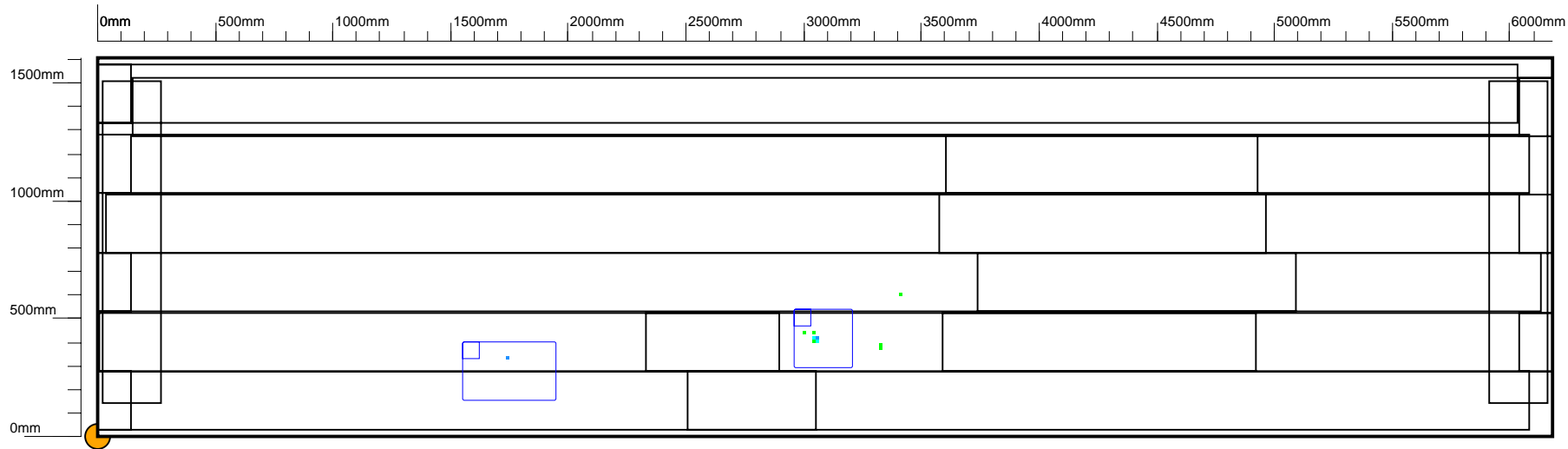
**Plate:** 1  
**Plate Width:** 1610  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 1  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006



Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 22  
**Plate Length:** 6180  
**Orientation:** Horizontal  
**Max discontinuity:** 64  
**Lower Threshold:** 40

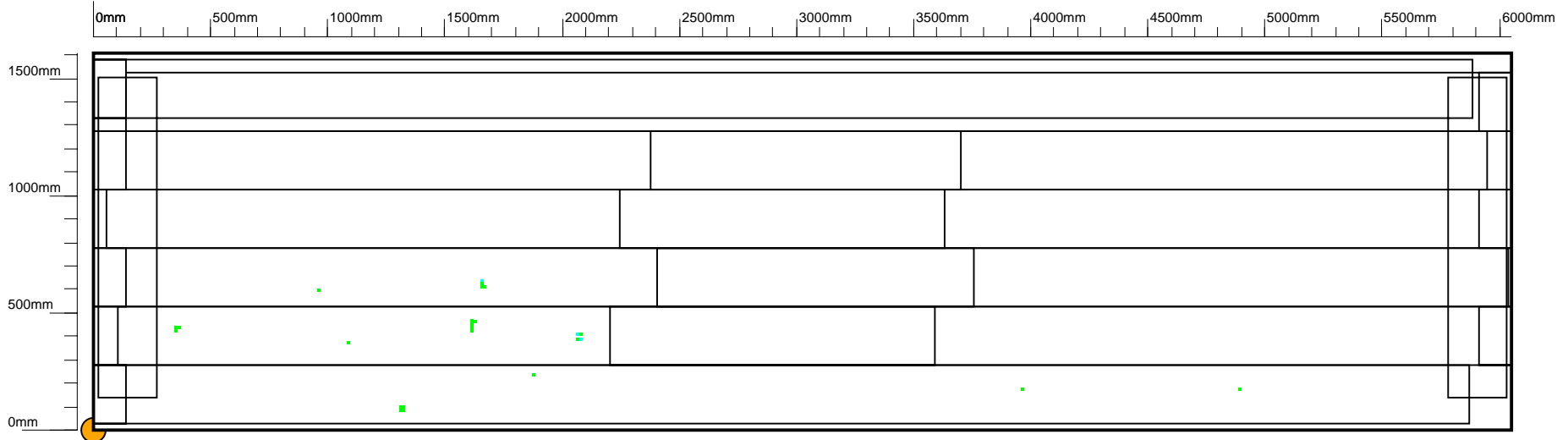
**Plate:** 2  
**Plate Width:** 1610  
**Scan Method:** Raster  
**Discontinuity Count:** 10  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 22  
**Plate Length:** 6050  
**Orientation:** Horizontal  
**Max discontinuity:** 51  
**Lower Threshold:** 40

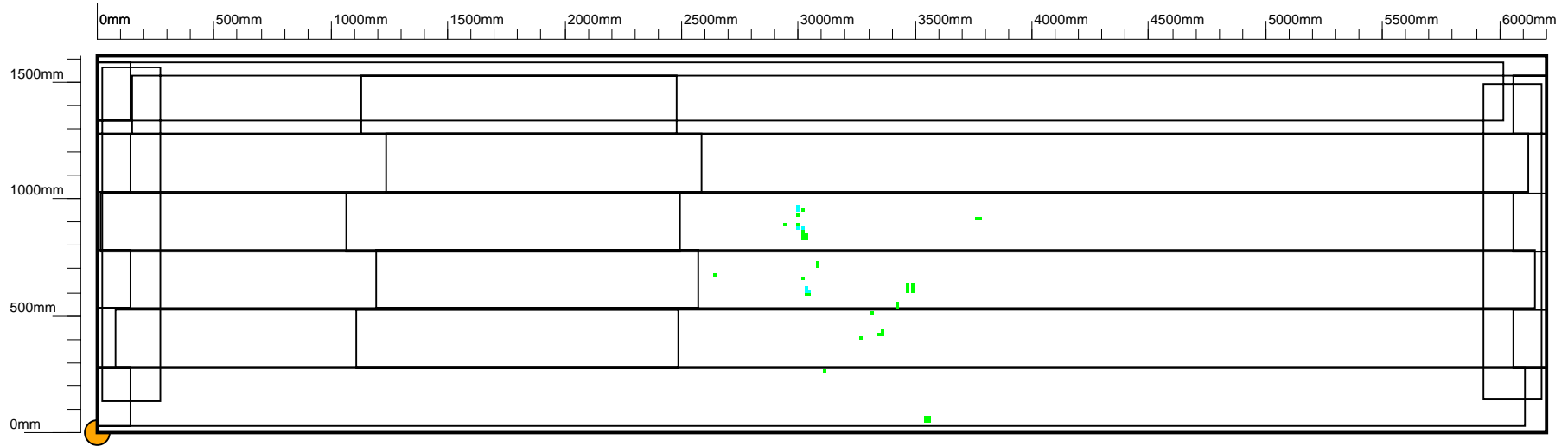
**Plate:** 3  
**Plate Width:** 1610  
**Scan Method:** Raster  
**Discontinuity Count:** 25  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 22  
**Plate Length:** 6200  
**Orientation:** Horizontal  
**Max discontinuity:** 54  
**Lower Threshold:** 40

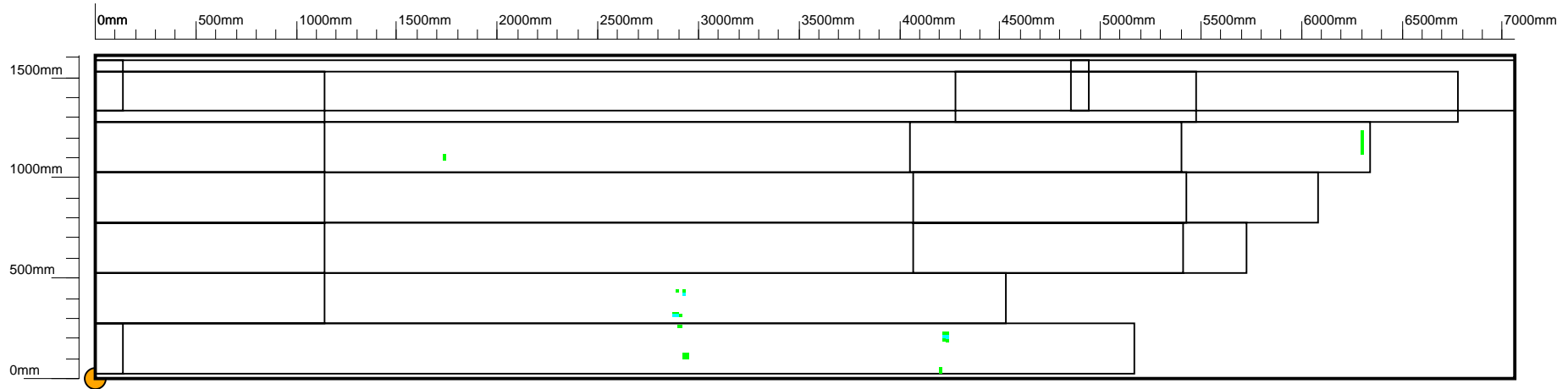
**Plate:** 4  
**Plate Width:** 1610  
**Scan Method:** Raster  
**Discontinuity Count:** 42  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





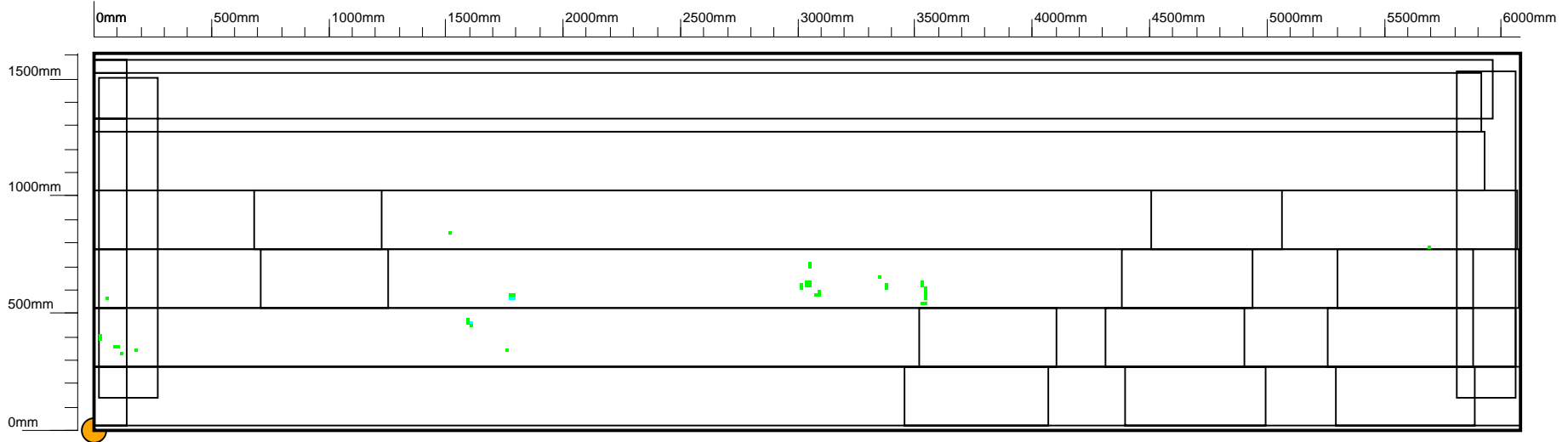
**Row:** 22  
**Plate Length:** 7060  
**Orientation:** Horizontal  
**Max discontinuity:** 56  
**Lower Threshold:** 40

**Plate:** 5  
**Plate Width:** 1610  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 33  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





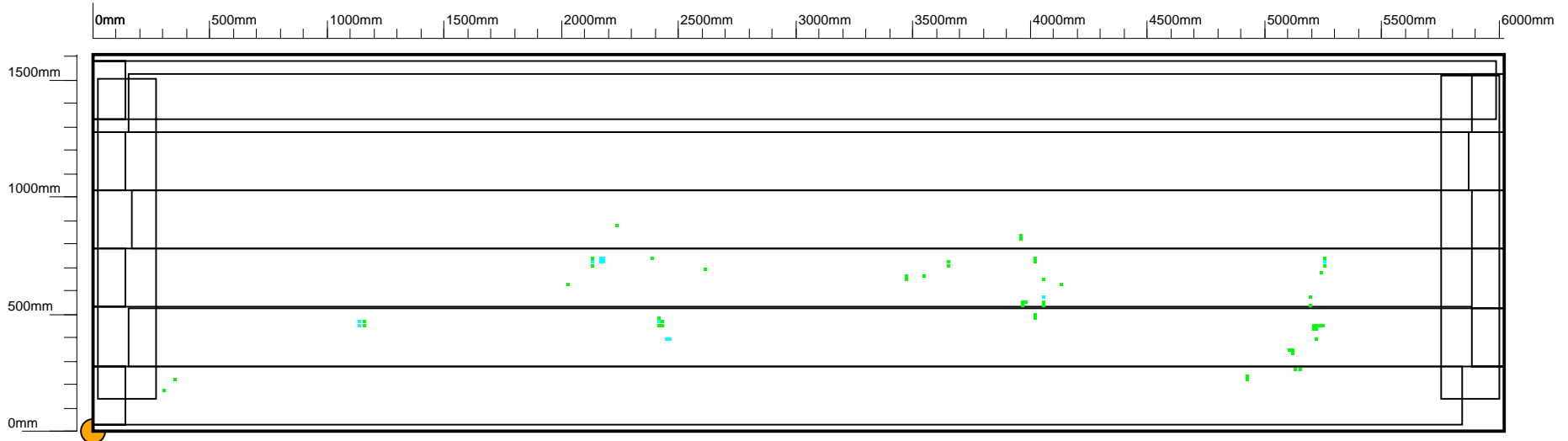
**Row:** 23  
**Plate Length:** 6080  
**Orientation:** Horizontal  
**Max discontinuity:** 51  
**Lower Threshold:** 40

**Plate:** 2  
**Plate Width:** 1610  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 40  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 23  
**Plate Length:** 6020  
**Orientation:** Horizontal  
**Max discontinuity:** 57  
**Lower Threshold:** 40

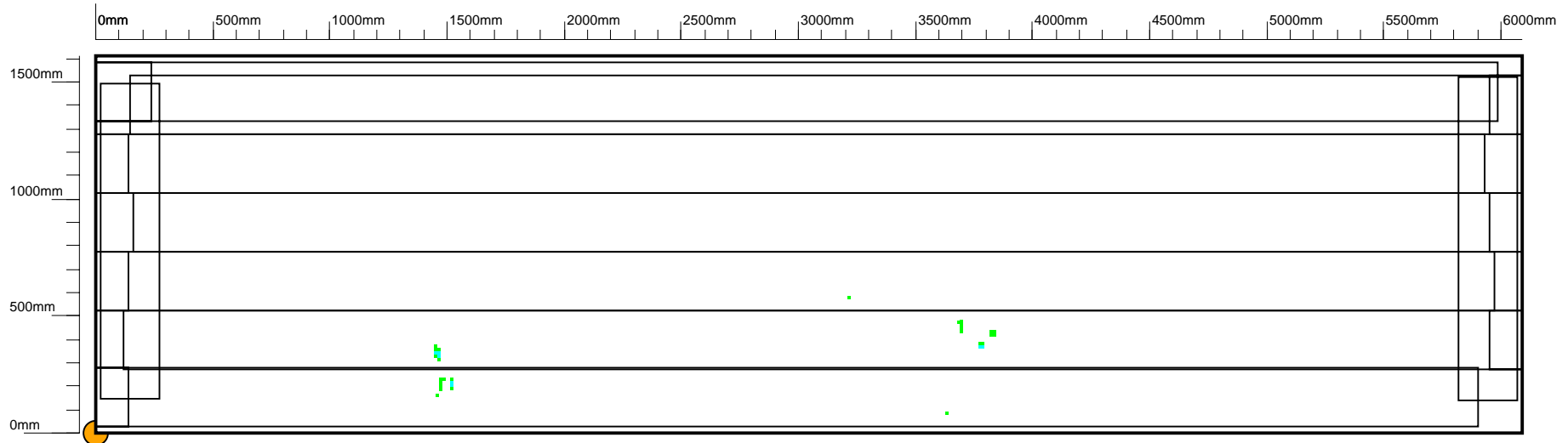
**Plate:** 3  
**Plate Width:** 1610  
**Scan Method:** Raster  
**Discontinuity Count:** 63  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 23  
**Plate Length:** 6090  
**Orientation:** Horizontal  
**Max discontinuity:** 57  
**Lower Threshold:** 40

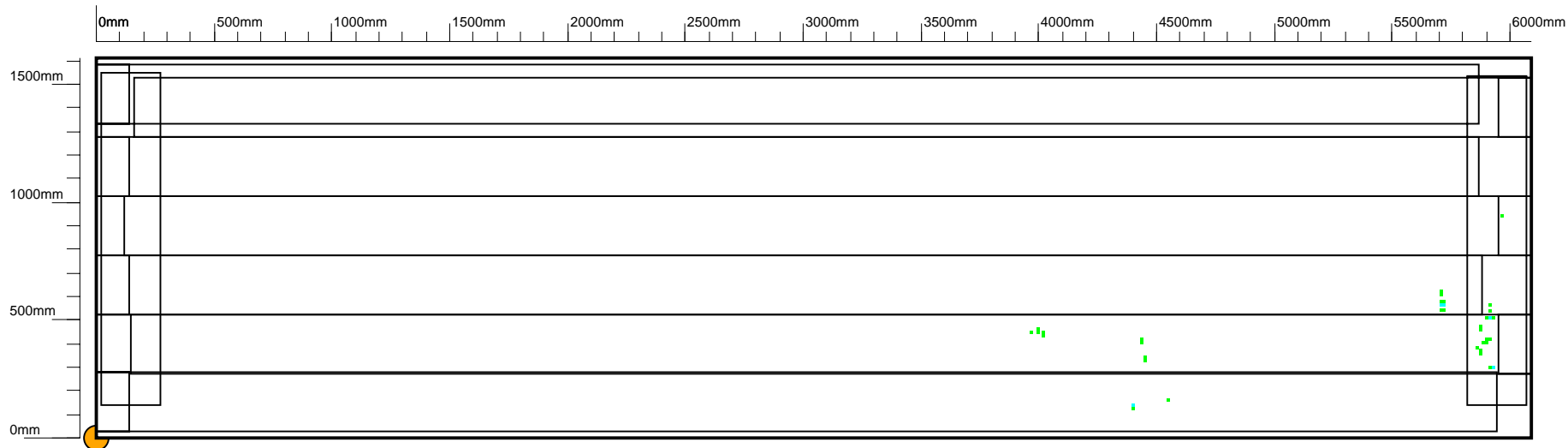
**Plate:** 4  
**Plate Width:** 1610  
**Scan Method:** Raster  
**Discontinuity Count:** 33  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 23  
**Plate Length:** 6090  
**Orientation:** Horizontal  
**Max discontinuity:** 57  
**Lower Threshold:** 40

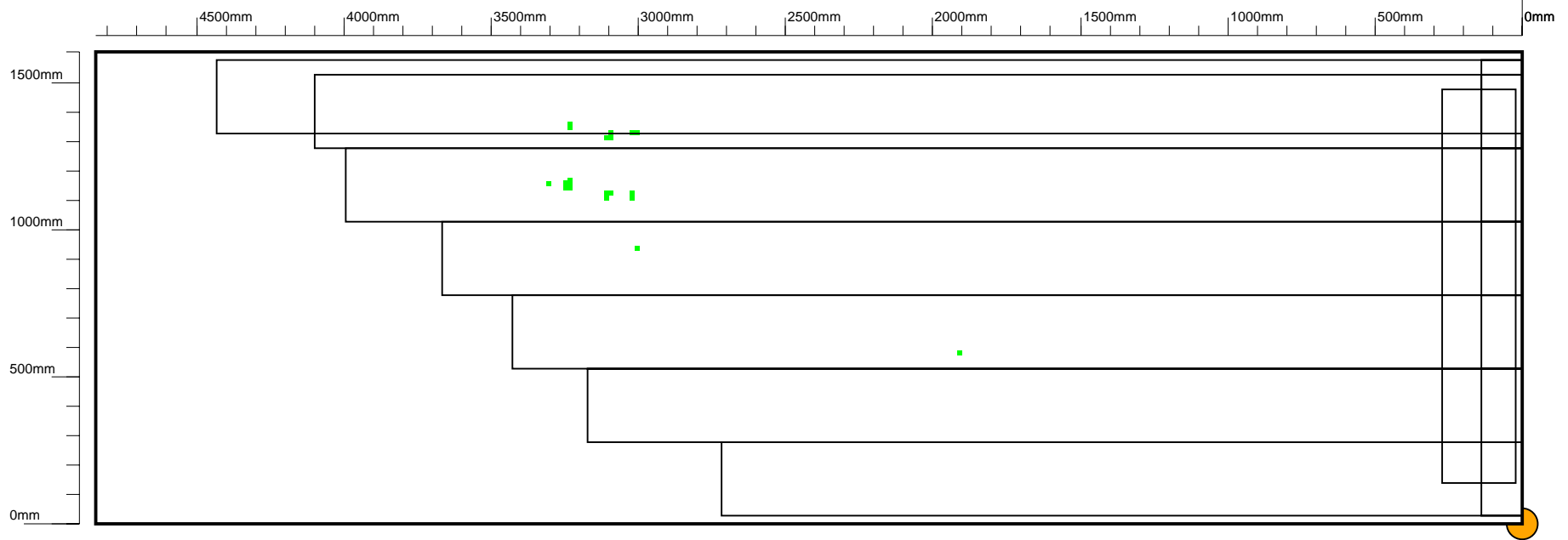
**Plate:** 5  
**Plate Width:** 1610  
**Scan Method:** Raster  
**Discontinuity Count:** 37  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





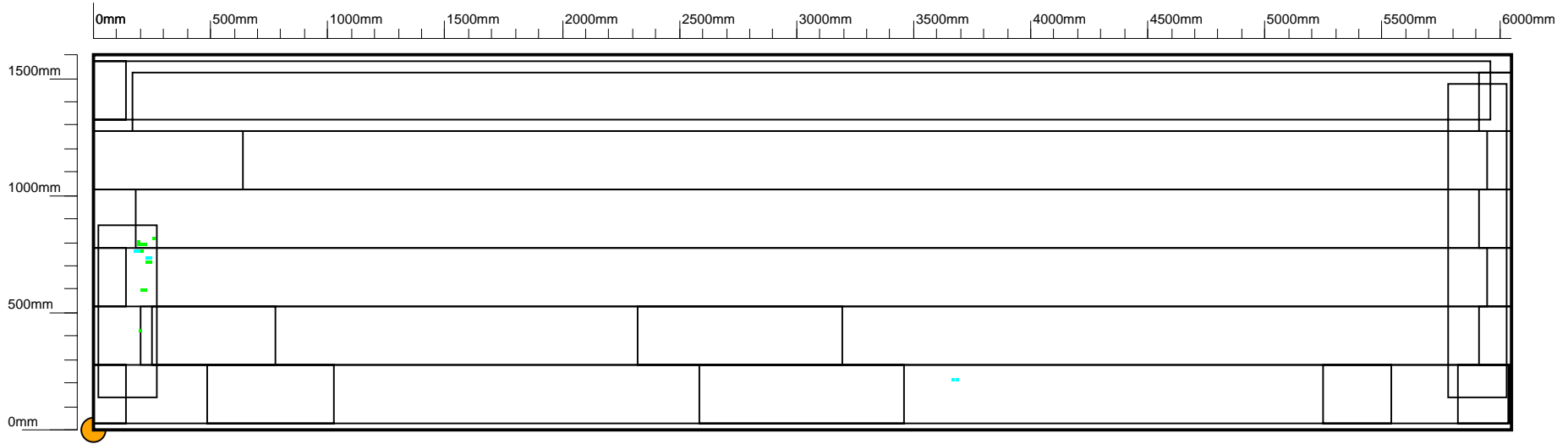
**Row:** 24  
**Plate Length:** 4840  
**Orientation:** Horizontal  
**Max discontinuity:** 48  
**Lower Threshold:** 40

**Plate:** 1  
**Plate Width:** 1600  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 20  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 24  
**Plate Length:** 6050  
**Orientation:** Horizontal  
**Max discontinuity:** 59  
**Lower Threshold:** 40

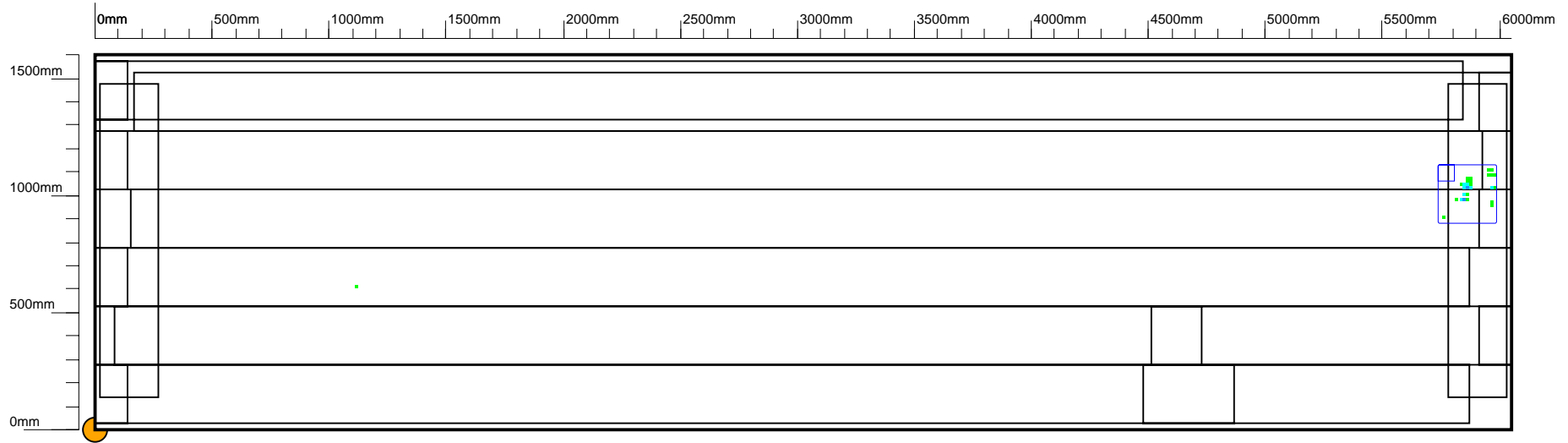
**Plate:** 2  
**Plate Width:** 1600  
**Scan Method:** Raster  
**Discontinuity Count:** 17  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 24  
**Plate Length:** 6050  
**Orientation:** Horizontal  
**Max discontinuity:** 61  
**Lower Threshold:** 40

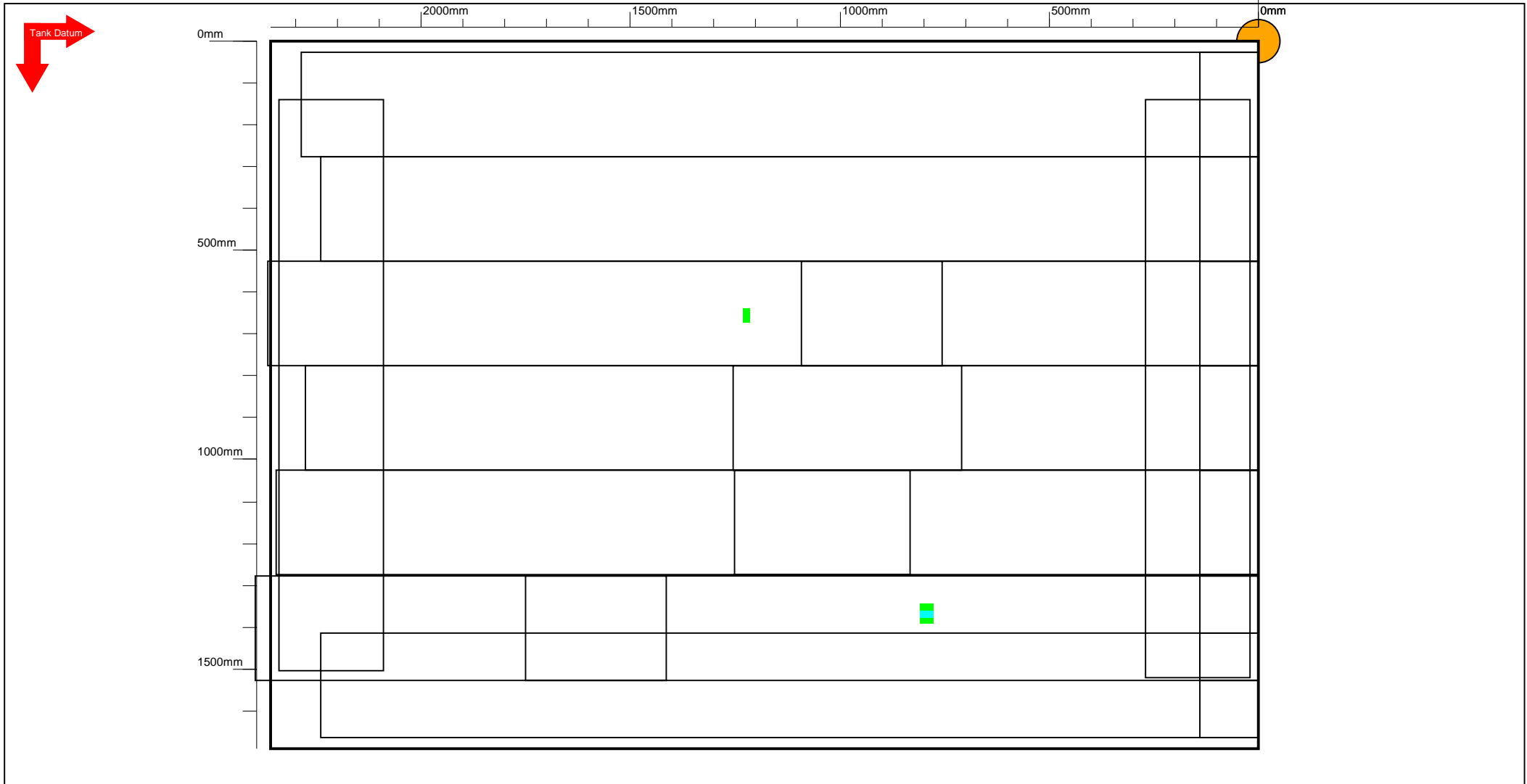
**Plate:** 4  
**Plate Width:** 1600  
**Scan Method:** Raster  
**Discontinuity Count:** 28  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





	<b>Row:</b> 25 <b>Plate Length:</b> 2360 <b>Orientation:</b> Vertical <b>Max discontinuity:</b> 50 <b>Lower Threshold:</b> 40	<b>Plate:</b> 6 <b>Plate Width:</b> 1690 <b>Scan Method:</b> Uni-Directional <b>Discontinuity Count:</b> 8 <b>Upper Threshold:</b> 100	<b>Import Threshold:</b> 20%
	<b>Tank:</b> 8 <b>Location:</b> Sample <b>Company:</b> Silverwing uk ltd <b>Client:</b> Sample <b>Date:</b> 1/13/2006		

Defect Colour Scheme	Symbols
< 20%	Defect
20% - 29%	Track
30% - 39%	Non-Scanned Area
40% - 49%	Plate Reference
50% - 59%	Tank Datum
60% - 69%	
70% - 79%	
80% - 89%	
90% - 100%	
Weld Defect	



**Sample Inspection Report**  
**Tank No. 8**  
**Patch Repair Plate Locations**  
**Tank Floor Plates**

During the survey the FloormapVS reporting software was used to design the patch plate locations at the client's request.

All defects in excess of 55% loss of the nominal floor plate thickness were highlighted for patch repairs.

The FloormapVS reporting software was used to design the patch plate locations and also produce a *patch plate list* detailing floor plates requiring patch plates, patch plate size and patch plate positions.

The following pages show:

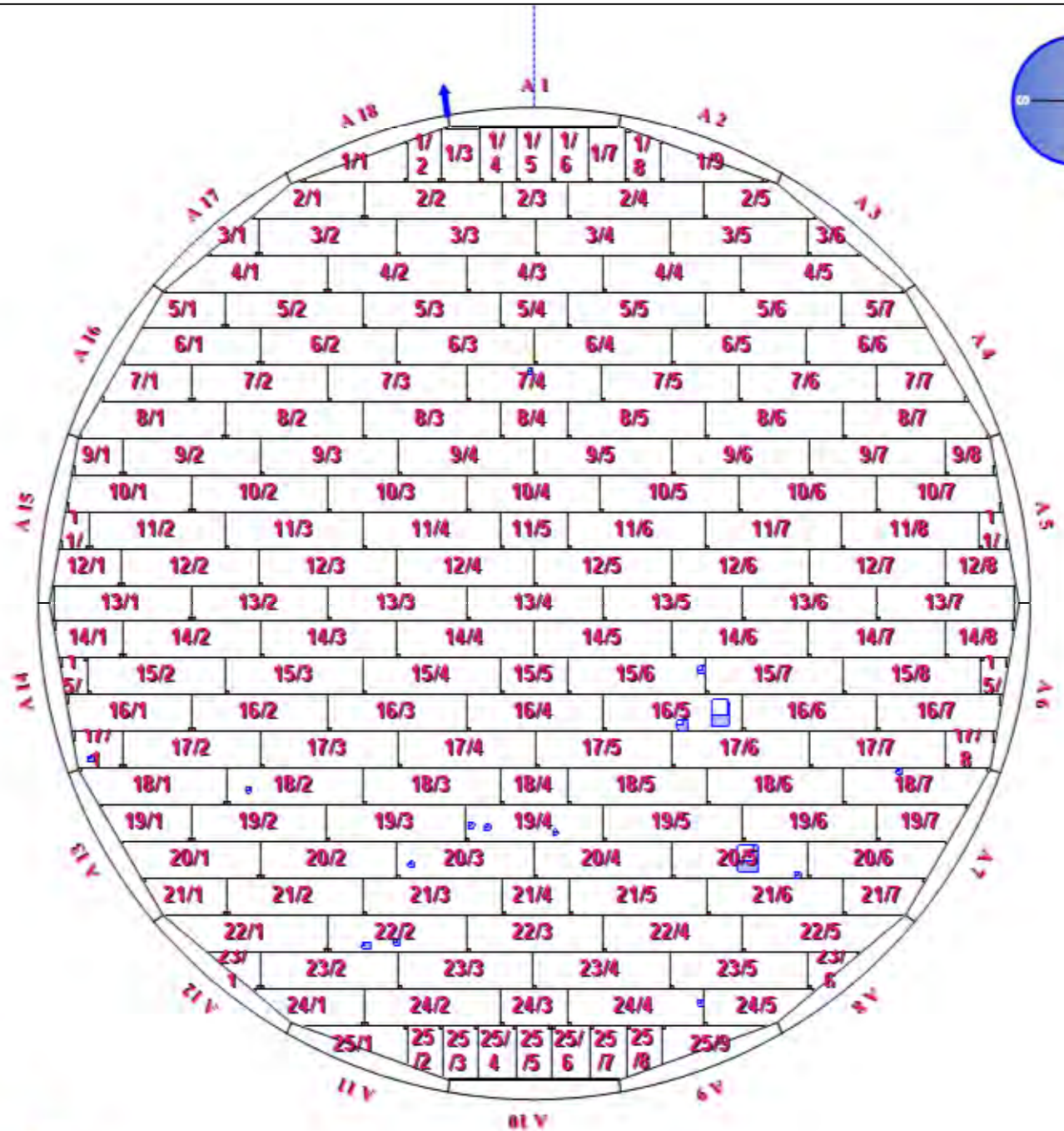
- View of tank floor showing patch plates as blue rectangles.
- Individual floor plate print-outs with patch plate locations shown as blue rectangles.
- Patch plate list detailing location and size of patches required.

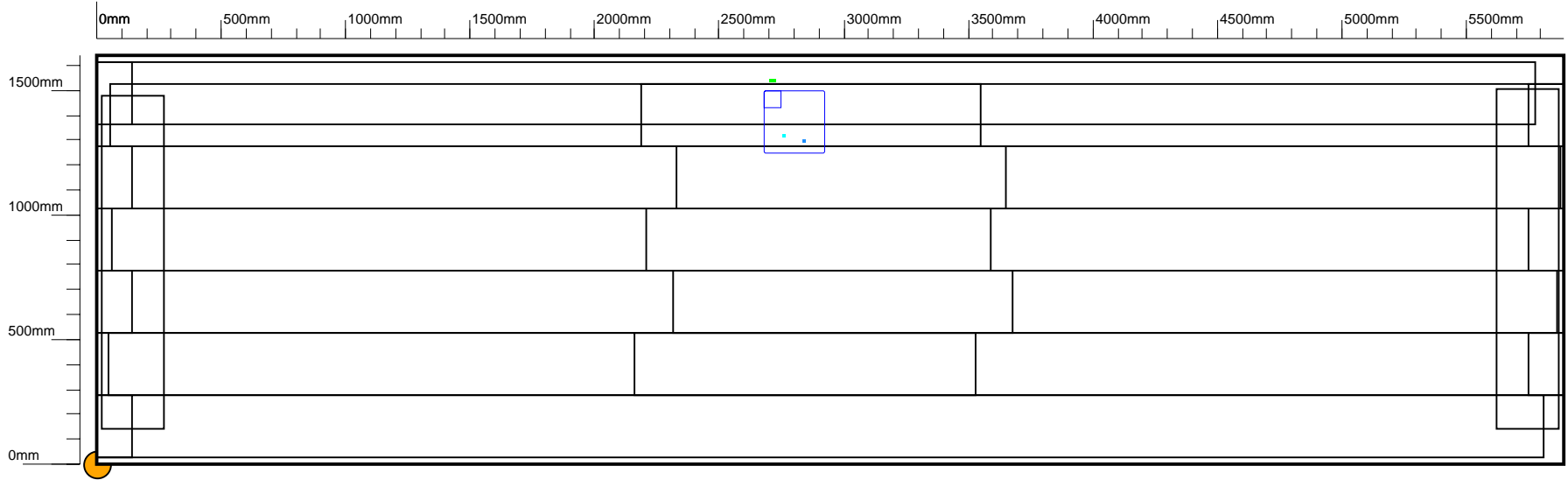
# Tank Floor Numbering System

Tank 8  
 Location Sample  
 Client Sample  
 Operator Company Silverwing uk ltd  
 Outer Tank Diameter 43980 mm  
 Import Threshold: 20%

## Defect Colour Scheme

< 20%  
 20% - 29%  
 30% - 39%  
 40% - 49%  
 50% - 59%  
 60% - 69%  
 70% - 79%  
 80% - 89%  
 90% - 100%  
 Weld Defect





**Row:** 7  
**Plate Length:** 5890  
**Orientation:** Horizontal  
**Max discontinuity:** 60  
**Lower Threshold:** 40

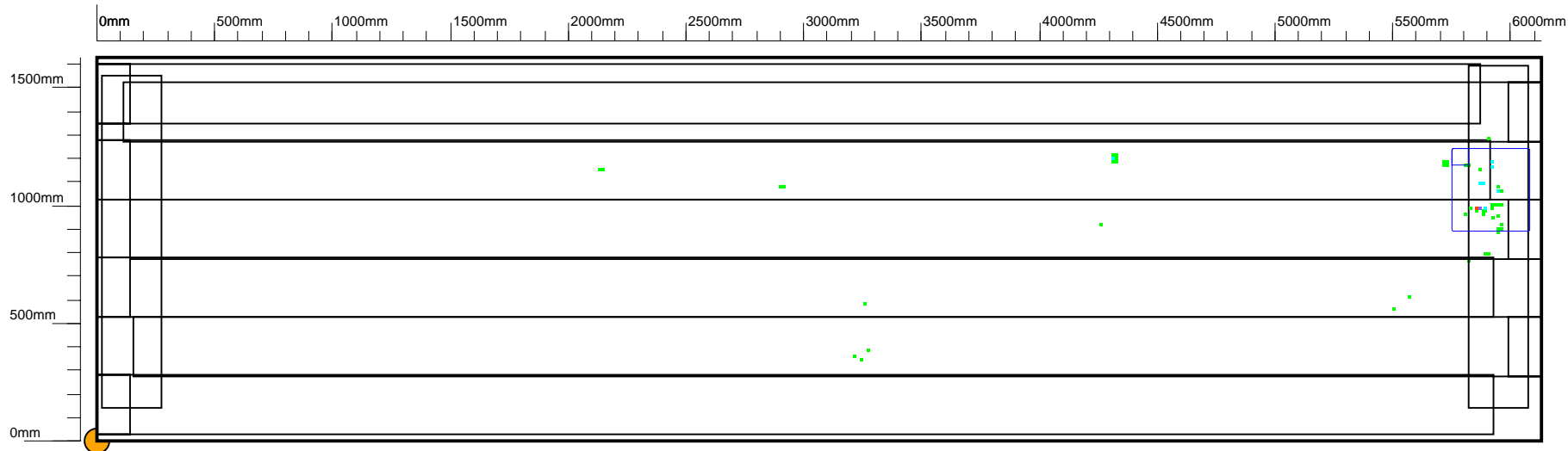
**Plate:** 4  
**Plate Width:** 1640  
**Scan Method:** Raster  
**Discontinuity Count:** 4  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 15  
**Plate Length:** 6130  
**Orientation:** Horizontal  
**Max discontinuity:** 80  
**Lower Threshold:** 40

**Plate:** 6  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 55  
**Upper Threshold:** 100

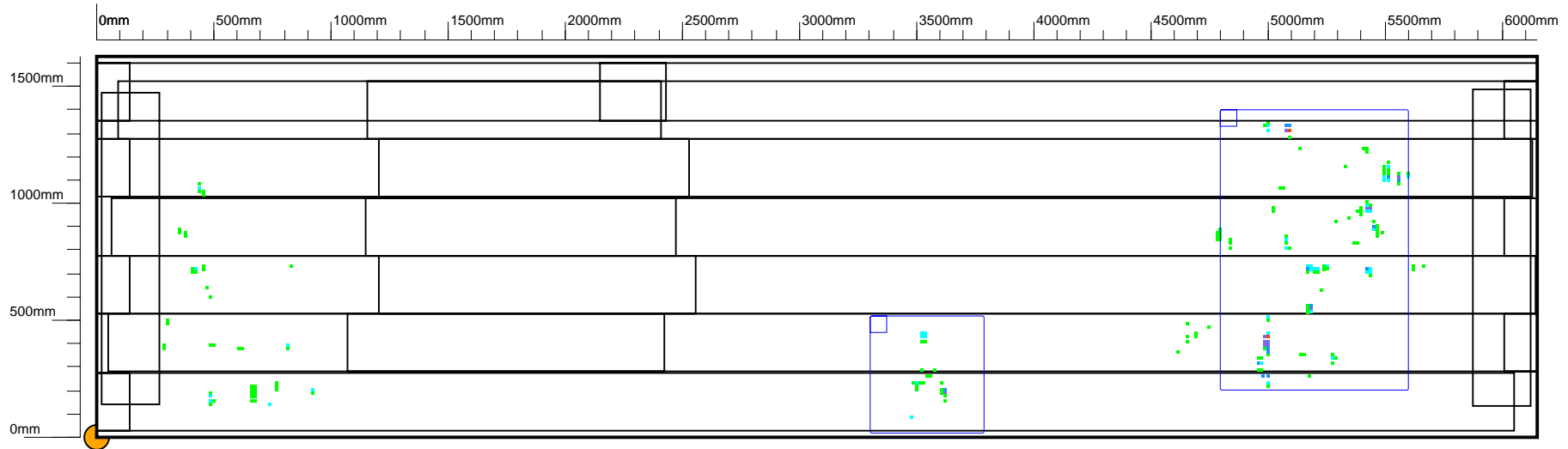
**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006



Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 16  
**Plate Length:** 6150  
**Orientation:** Horizontal  
**Max discontinuity:** 80  
**Lower Threshold:** 40

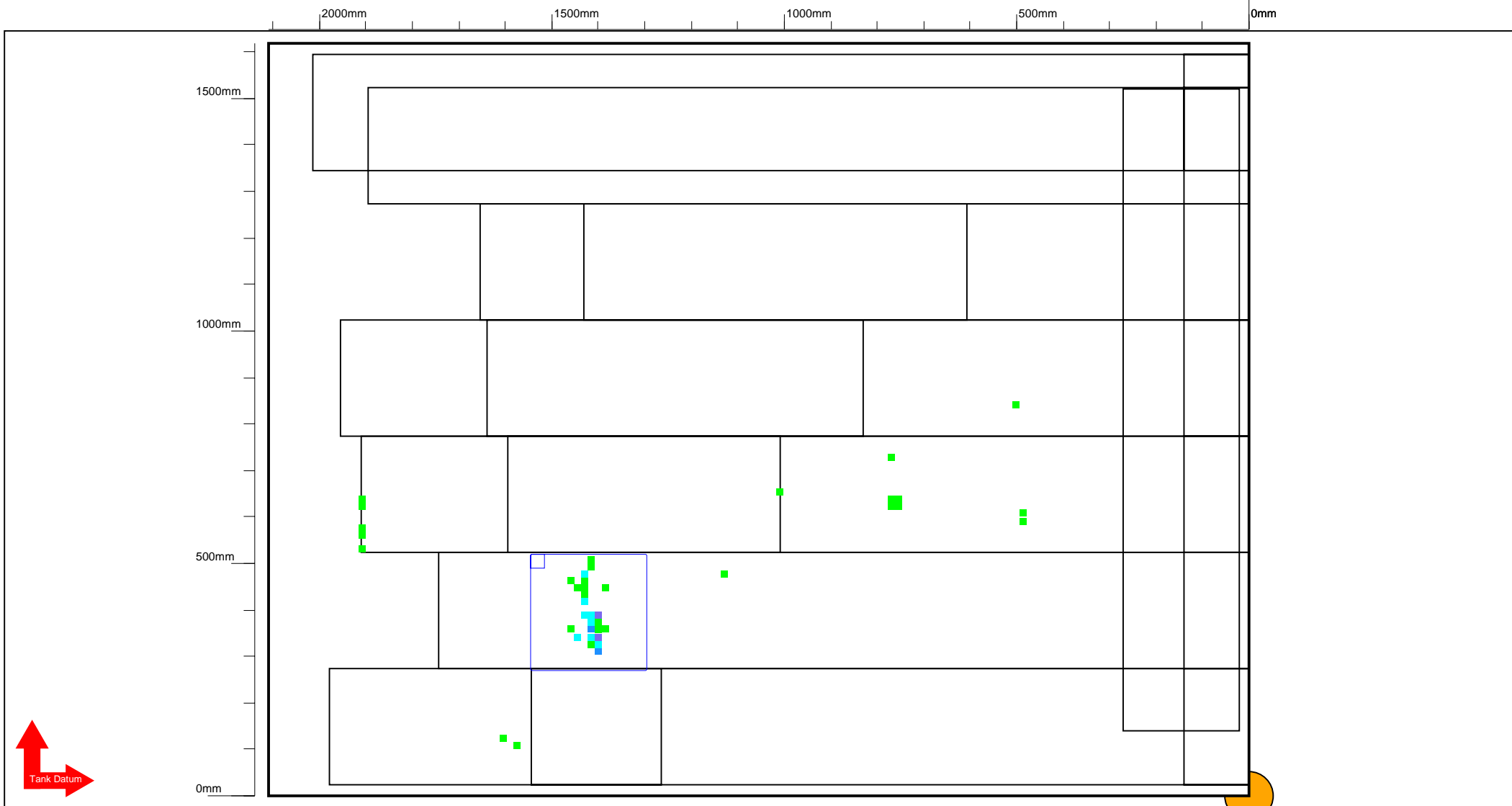
**Plate:** 5  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 211  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 17  
**Plate Length:** 2110  
**Orientation:** Horizontal  
**Max discontinuity:** 73  
**Lower Threshold:** 40

**Plate:** 1  
**Plate Width:** 1620  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 42  
**Upper Threshold:** 100

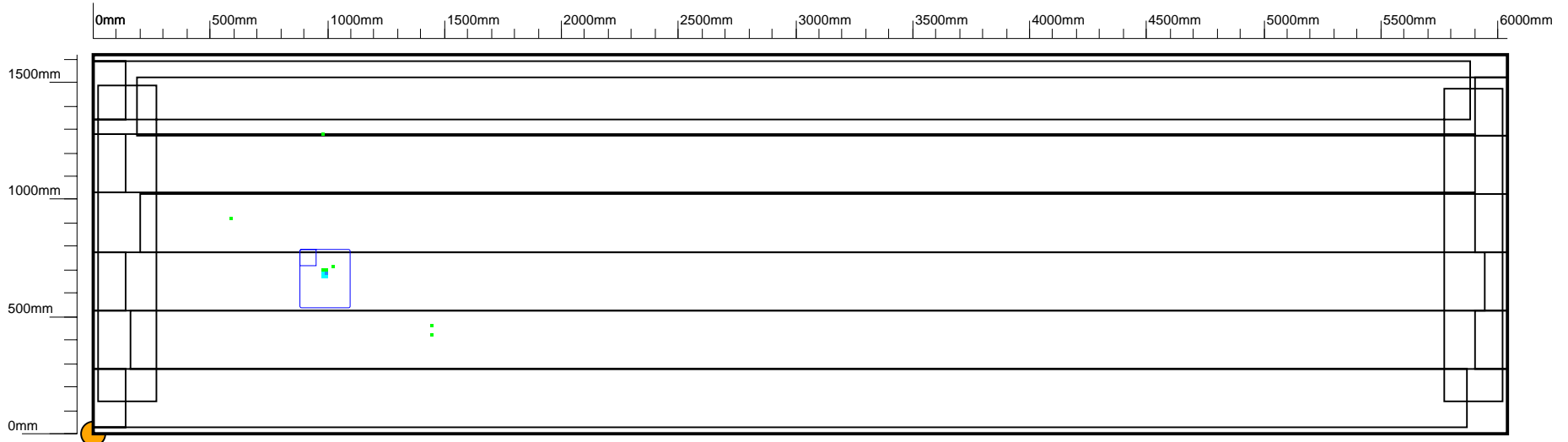
**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006



Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 18  
**Plate Length:** 6040  
**Orientation:** Horizontal  
**Max discontinuity:** 61  
**Lower Threshold:** 40

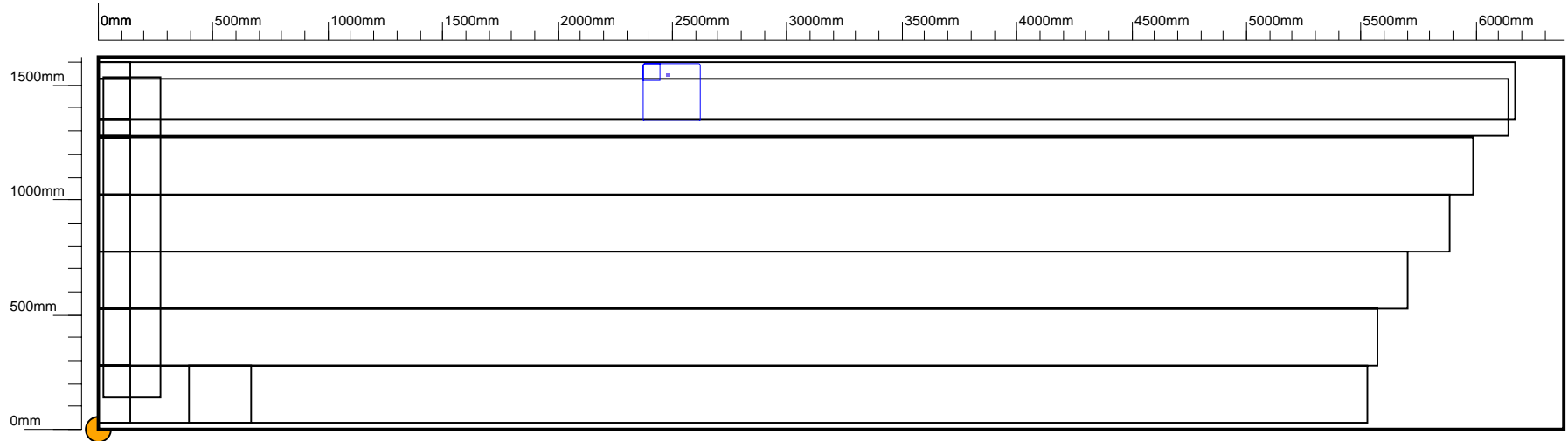
**Plate:** 2  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 11  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 18  
**Plate Length:** 6380  
**Orientation:** Horizontal  
**Max discontinuity:** 75  
**Lower Threshold:** 40

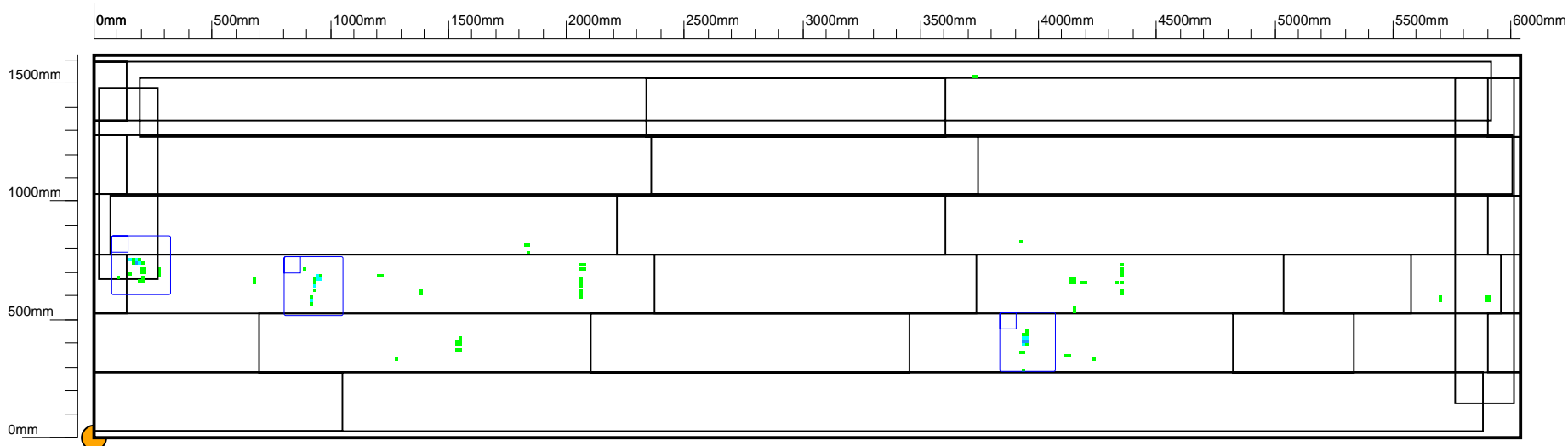
**Plate:** 7  
**Plate Width:** 1620  
**Scan Method:** Uni-Directional  
**Discontinuity Count:** 1  
**Upper Threshold:** 100      **Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006



Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 19  
**Plate Length:** 6040  
**Orientation:** Horizontal  
**Max discontinuity:** 63  
**Lower Threshold:** 40

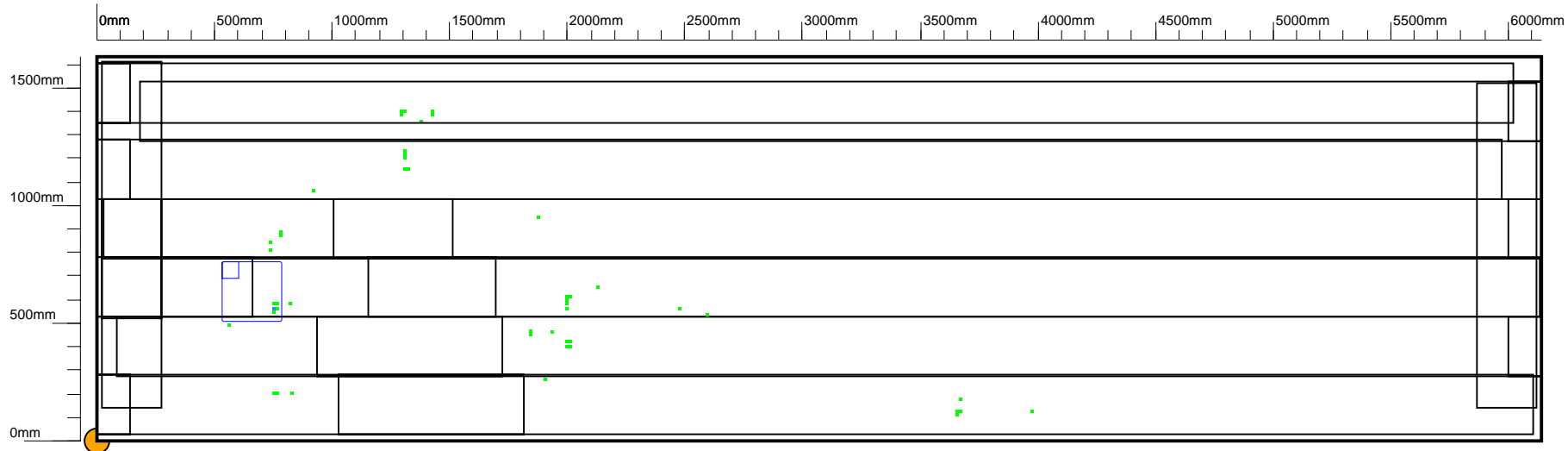
**Plate:** 4  
**Plate Width:** 1620  
**Scan Method:** Raster  
**Discontinuity Count:** 99  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 20  
**Plate Length:** 6140  
**Orientation:** Horizontal  
**Max discontinuity:** 60  
**Lower Threshold:** 40

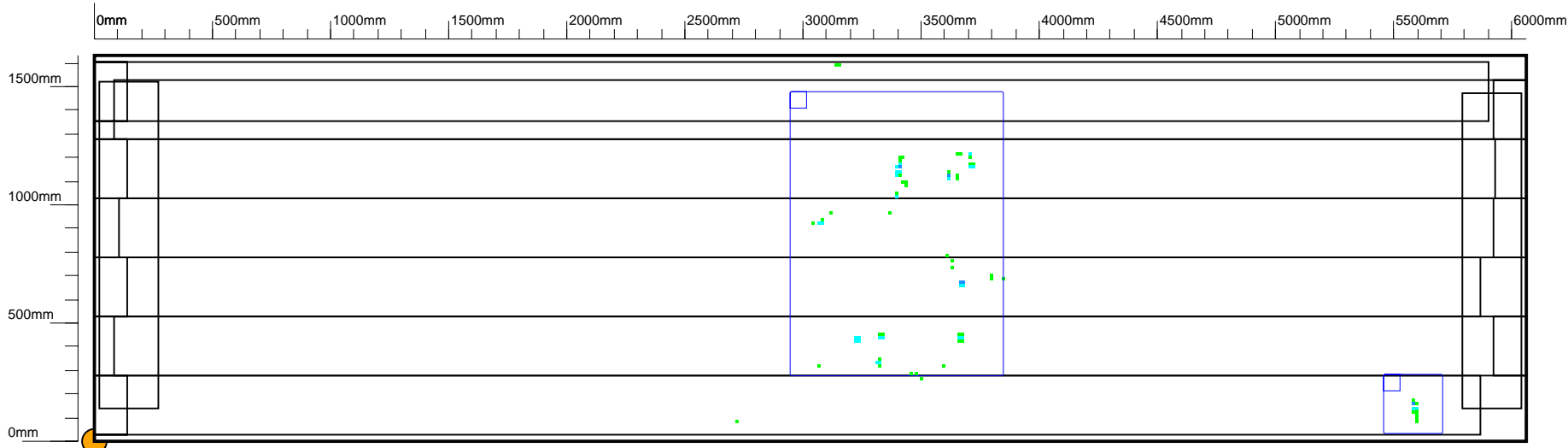
**Plate:** 3  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 48  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 20  
**Plate Length:** 6060  
**Orientation:** Horizontal  
**Max discontinuity:** 65  
**Lower Threshold:** 40

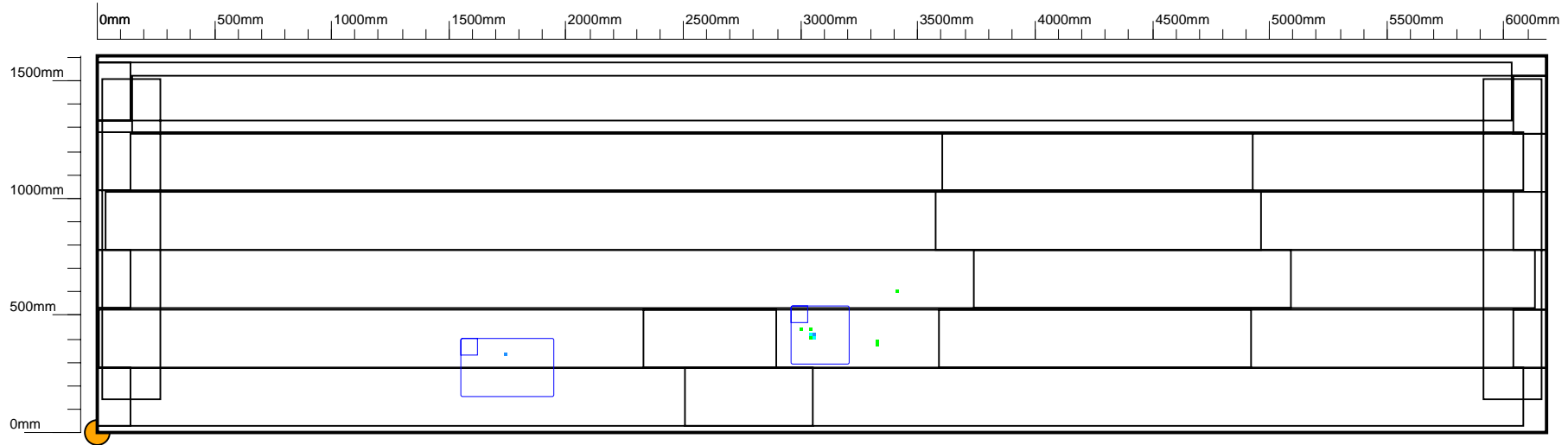
**Plate:** 5  
**Plate Width:** 1630  
**Scan Method:** Raster  
**Discontinuity Count:** 80  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			





**Row:** 22  
**Plate Length:** 6180  
**Orientation:** Horizontal  
**Max discontinuity:** 64  
**Lower Threshold:** 40

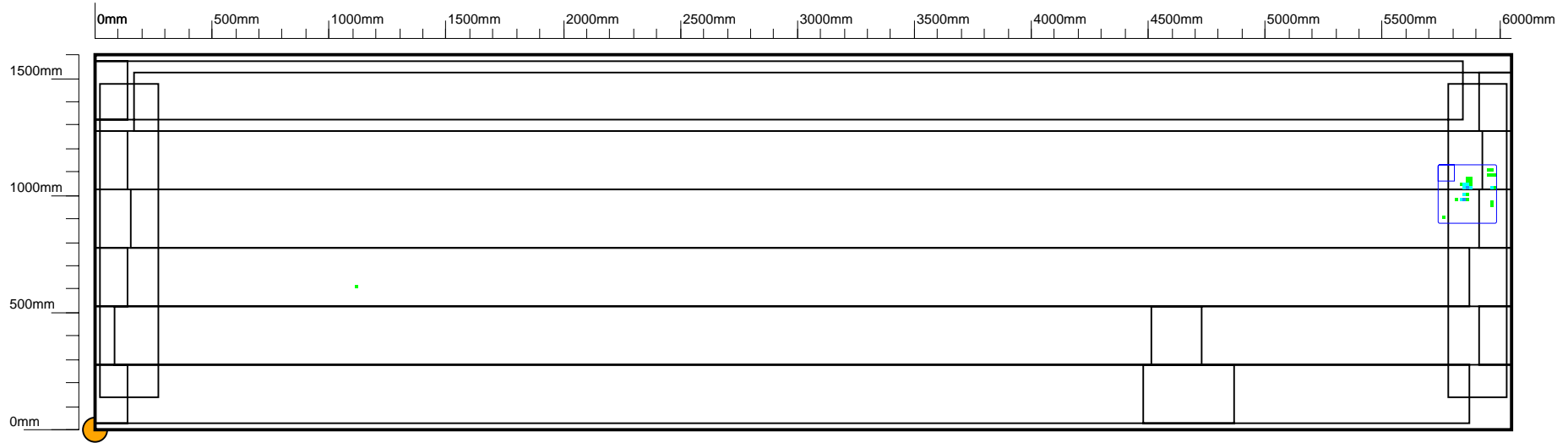
**Plate:** 2  
**Plate Width:** 1610  
**Scan Method:** Raster  
**Discontinuity Count:** 10  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			





**Row:** 24  
**Plate Length:** 6050  
**Orientation:** Horizontal  
**Max discontinuity:** 61  
**Lower Threshold:** 40

**Plate:** 4  
**Plate Width:** 1600  
**Scan Method:** Raster  
**Discontinuity Count:** 28  
**Upper Threshold:** 100

**Import Threshold:** 20%

**Tank:** 8  
**Location:** Sample  
**Company:** Silverwing uk ltd  
**Client:** Sample  
**Date:** 1/13/2006

Defect Colour Scheme		Symbols	
< 20%		Defect	
20% - 29%		Track	
30% - 39%		Non-Scanned Area	
40% - 49%		Plate Reference	
50% - 59%		Tank Datum	
60% - 69%			
70% - 79%			
80% - 89%			
90% - 100%			
Weld Defect			



# Patch Plate List

Tank: 8

Date: 1/13/2006



All X and Y coordinates are taken perpendicular from the plate reference to the Top-Left corner of the patch plate concerned. See each plate illustration for further details

Row	Plate	Plate Reference	Patch ID	X Pos.(mm)	Y Pos.(mm)	Height(mm)	Width(mm)
7	4	Bottom-Left	7/4/1	2679.79	1501.46	250	250
Total No Of Patches on Row 7 Plate 4 = 1							
15	6	Bottom-Left	15/6/1	5754.8	1243.39	350	330
Total No Of Patches on Row 15 Plate 6 = 1							
16	5	Bottom-Left	16/5/1	3298.94	517.83	500	490
16	5	Bottom-Left	16/5/2	4797.76	1402.52	1200	800
Total No Of Patches on Row 16 Plate 5 = 2							
17	1	Bottom-Right	17/1/1	1546.34	521.04	250	250
Total No Of Patches on Row 17 Plate 1 = 1							
18	2	Bottom-Left	18/2/1	886.25	787.88	250	220
Total No Of Patches on Row 18 Plate 2 = 1							
18	7	Bottom-Left	18/7/1	2372.49	1591.42	250	250
Total No Of Patches on Row 18 Plate 7 = 1							
19	4	Bottom-Left	19/4/1	3835.89	530.8	250	240
19	4	Bottom-Left	19/4/2	74.41	855.53	250	250
19	4	Bottom-Left	19/4/3	805.06	767.58	250	250
Total No Of Patches on Row 19 Plate 4 = 3							
20	3	Bottom-Left	20/3/1	531.84	758.88	250	250
Total No Of Patches on Row 20 Plate 3 = 1							
20	5	Bottom-Left	20/5/1	2944.93	1480.67	1200	900
20	5	Bottom-Left	20/5/2	5457.26	281.52	250	250
Total No Of Patches on Row 20 Plate 5 = 2							
22	2	Bottom-Left	22/2/1	1550.54	400.95	250	400
22	2	Bottom-Left	22/2/2	2962.63	539.39	250	250
Total No Of Patches on Row 22 Plate 2 = 2							
24	4	Bottom-Left	24/4/1	5737.38	1130.17	250	250

# Patch Plate List

Tank: 8

Date: 1/13/2006



All X and Y coordinates are taken perpendicular from the plate reference to the Top-Left corner of the patch plate concerned. See each plate illustration for further details

Row	Plate	Plate Reference	Patch ID	X Pos.(mm)	Y Pos.(mm)	Height(mm)	Width(mm)
-----	-------	-----------------	----------	------------	------------	------------	-----------

Total No Of Patches on Row 24 Plate 4 = 1

**Total No Of Patches for Tank 8 = 16**

# Visual, MPI and UT Inspection of Nozzles

## Sample Report Tank No. 8

Ultrasonic thickness measurements were taken internally and externally at the 12 / 3 / 6 / 9 o'clock positions around the nozzle circumference. A continuous scan was made at each position with the minimum thickness recorded.

### **Nozzle 1,**

#### **External of tank**

Ultrasonic readings

12 O'clock- 17mm / 3 O'clock- 17mm / 6 O'clock- 17mm / 9 O'clock- 17mm

The nozzle and nozzle plate coatings appear to be in a good condition.  
The Magnetic Particle Inspection detected no linear crack type indications on the nozzle or nozzle plate welds.

#### **Internal of tank**

Ultrasonic readings

12 O'clock- 17mm / 3 O'clock- 17mm / 6 O'clock- 17mm / 9 O'clock- 17mm

No internal nozzle coating present.  
The Magnetic Particle Inspection detected no linear crack type indications on the nozzle welds.

### **NOZZLE 2,**

#### **External of tank**

Ultrasonic readings

12 O'clock- 8mm / 3 O'clock- 7.9mm / 6 O'clock- 8.2mm / 9 O'clock- 8mm

The nozzle and nozzle plate coatings appear to be in a good condition.  
The Magnetic Particle Inspection detected no linear crack type indications on the nozzle or nozzle plate welds.

#### **Internal of tank**

Ultrasonic readings

12 O'clock- 8mm / 3 O'clock- 7.5mm / 6 O'clock- 8mm / 9 O'clock- 8mm

No internal nozzle coating present.  
The Magnetic Particle Inspection detected no linear crack type indications on the nozzle welds.

### **NOZZLE 3,**

#### **External of tank**

Ultrasonic readings

12 O'clock- 18mm / 3 O'clock- 18mm / 6 O'clock- 18mm / 9 O'clock- 18mm

The nozzle and nozzle plate coatings appear to be in a good condition.

The Magnetic Particle Inspection detected no linear crack type indications on the nozzle or nozzle plate welds.

#### **Internal of tank**

Ultrasonic readings

12 O'clock- 5.2mm / 3 O'clock- 5.5mm / 6 O'clock- 5.6mm / 9 O'clock- 5.5mm

No internal nozzle coating present.

The Magnetic Particle Inspection detected no linear crack type indications on the nozzle welds.

**Sample Report  
Tank 8  
Scorpion B-Scan Analysis Summary**

The Ultrasonic B-scans recorded during the survey have been analysed and a summary of the results are shown below. Any wall loss greater than 30% has been included in the analysis summary. All distance measurements are shown in millimetres and start from the bottom of each course / strake.

**Scan 1 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.0 mm	n/a	n/a	n/a	Scorpion B-scan was unable to achieve sufficient data due to surface conditions. Therefore a manual scan using the Krautkammer USM 25 ultrasonic set was performed in this area.

**Scan 1 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	1240mm	1260mm	30%	Localised corrosion

**Scan 1 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	150mm	170mm	30%	Localised corrosion

**Scan 1 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 1 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 2 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 2 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 2 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	1530mm	1550mm	50%	Localised corrosion.

**Scan 2 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	240mm	260mm	40%	Localised corrosion.

**Scan 2 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 3 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
13.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 3 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.5 mm	1690mm	1720mm	40%	Localised corrosion.

**Scan 3 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	1530mm	1550mm	50%	Localised corrosion.

**Scan 3 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	1800mm	100%	Corrosion detected along the entire width of plate C4/4. Holes were detected.

**Scan 3 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	850mm	100%	Holes were detected.

**Scan 4 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.5 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 4 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.5 mm	1000mm	1280mm	30%	Corrosion areas were detected

**Scan 4 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	210mm	230mm	30%	Localised corrosion.

**Scan 4 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	1800mm	100%	Corrosion detected along the entire width of plate C4/4. Holes were detected.

**Scan 4 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	960mm	100%	Holes were detected on plate C5/4.

**Scan 5 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 5 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	1670mm	1690mm	30%	Localised corrosion.

**Scan 5 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	1730mm	1750mm	90%	Possible holed area on plate C3/4.

**Scan 5 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	1800mm	100%	Corrosion detected along the entire width of plate C4/5. Holed areas were detected.

**Scan 5 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	960mm	90%	Corroded areas were detected on plate C5/4.

**Scan 6 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.5 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 6 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.5 mm	1000mm	1280mm	30%	Corrosion areas were detected

**Scan 6 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	210mm	230mm	30%	Localised corrosion.

**Scan 6 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	1800mm	100%	Corrosion detected along the entire width of plate C4/5. Holed areas were detected.

**Scan 6 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	960mm	90%	Corroded areas were detected on plate C5/4.

**Scan 7 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 7 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	1740mm	1760mm	30%	Localised corrosion.

**Scan 7 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	1430mm	1450mm	40%	Localised corrosion.

**Scan 7 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	880mm	1800mm	100%	Corrosion detected along the width of plate C4/5. Holed areas were detected.

**Scan 7 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	1500mm	80%	Corroded areas were detected on plate C5/5.

**Scan 8 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.5 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 8 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 8 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 8 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 8 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 9 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.5 mm	n/a	n/a	n/a	Scorpion B-scan was unable to achieve sufficient data due to surface conditions. Therefore a manual scan using the Krautkammer USM 25 ultrasonic set was performed in this area.

**Scan 9 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	830mm	850mm	30%	Localised corrosion

**Scan 9 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 9 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	1800mm	50%	Corrosion detected along the entire width of plate C4/8.

**Scan 9 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	720mm	50%	Corrosion detected from the start of plate C5/8

**Scan 10 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.5 mm	Unable to obtain results	Unable to obtain results	Unable to obtain results	Scorpion B-scan was unable to achieve sufficient data due to surface conditions.

**Scan 10 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	1160mm	1400mm	40%	Corrosion areas were detected

**Scan 10 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 10 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	600mm	800mm	30%	Corrosion areas were detected

**Scan 10 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 11 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.5 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 11 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	1400mm	1500mm	30%	Corrosion areas were detected

**Scan 11 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	1200mm	1650mm	30%	Corrosion areas were detected

**Scan 11 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	1800mm	30%	Corrosion detected along the entire width of plate C4/11.

**Scan 11 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	300m	30%	Corrosion areas were detected

**Scan 12 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.5 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 12 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	790mm	810mm	30%	Localised corrosion
10.0mm	1210mm	1230mm	30%	Localised corrosion

**Scan 12 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	950mm	1600mm	40%	Corrosion areas were detected

**Scan 12 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	400mm	30%	Corrosion detected from the start of plate C4/12

**Scan 12 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	950mm	30%	Corrosion detected from the start of plate C5/11

**Scan 13 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 13 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 13 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	1240mm	1260mm	30%	Localised corrosion

**Scan 13 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	500mm	1200mm	50%	Corrosion detected on plate C4/13

**Scan 13 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	200mm	30%	Corrosion detected from the start of plate C5/12

**Scan 14 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 14 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 14 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	1000mm	1400mm	40%	Corrosion detected on plate C3/13

**Scan 14 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	1800mm	40%	Corrosion detected along the entire width of plate C4/14.

**Scan 14 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	1000mm	60%	Corrosion detected from the start of plate C5/13

**Scan 15 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 15 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 15 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	400mm	1000mm	50%	Corrosion detected on plate C3/14

**Scan 15 Course 4**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	1550mm	1770mm	40%	Corrosion detected on plate C4/15

**Scan 15 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	250mm	40%	Corrosion detected from the start of plate C5/14

**Scan 16 Course 1**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
12.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 16 Course 2**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
10.0 mm	n/a	n/a	n/a	No reportable loss was detected in scanned area.

**Scan 16 Course 3**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
8.0 mm	0mm	450mm	50%	Corrosion detected on plate C3/15
8.0mm	940mm	960mm	40%	Localised corrosion

**Scan 16 Course 4**

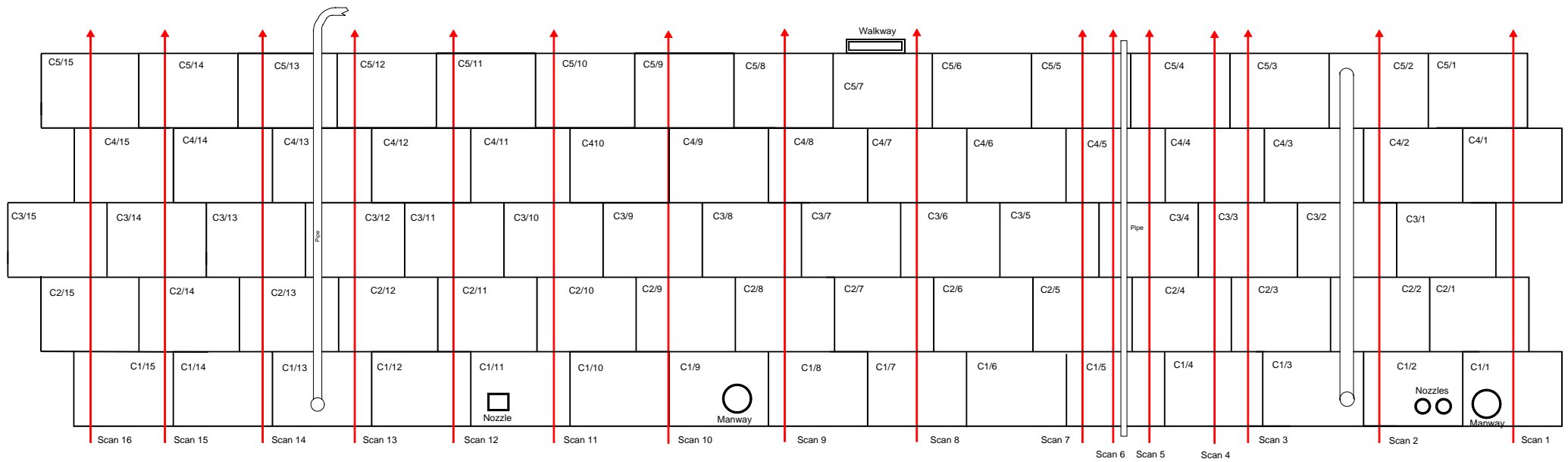
<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	1800mm	50%-60%	Corrosion detected along the entire width of plate C4/15.

**Scan 16 Course 5**

<b>Nominal Plate Thickness</b>	<b>Defect starts</b>	<b>Defect ends</b>	<b>Maximum Loss</b>	<b>Observations</b>
6.0 mm	0mm	950mm	30%	Corrosion detected from the start of plate C5/15

**B Scan Survey**  
**Tank shell layout & B-scan positions**

**Sample Report**  
**Tank 8**



Course 1, (12mm N.P.T)  
 Course 2, (10mm N.P.T)  
 Course 3, (8mm N.P.T)  
 Course 4, (6mm N.P.T)  
 Course 5, (6mm N.P.T)

( N.P.T ) - Nominal plate thickness.

## Example B-Scan Images

The images below show generic examples of B-scan images acquired using the Scorpion B-Scan System.

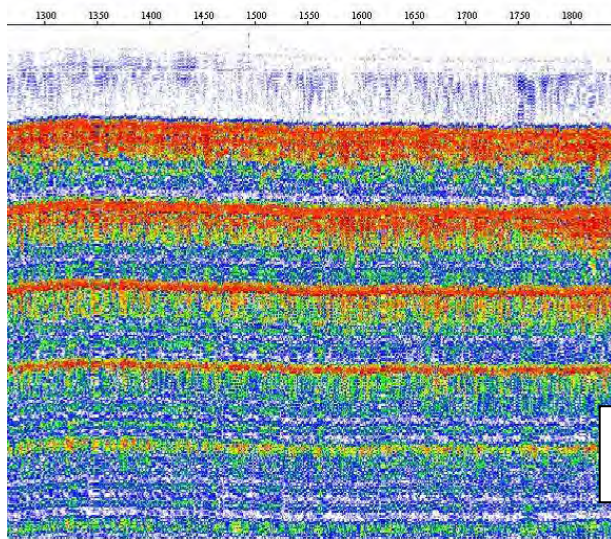


Figure 1  
Example of non-corroded plate.

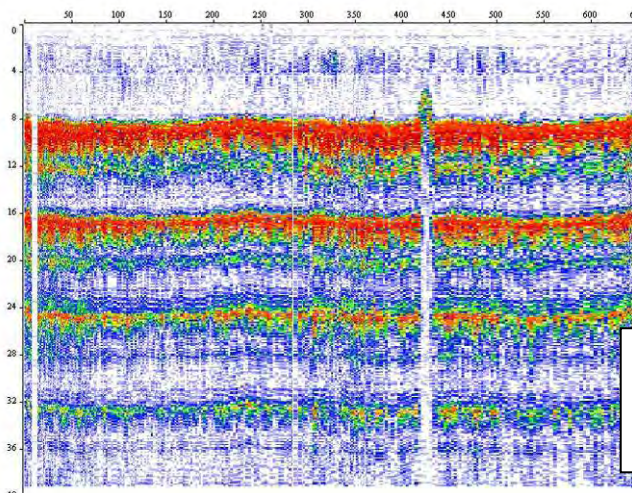


Figure 2  
Example of small diameter  
isolated corrosion pit

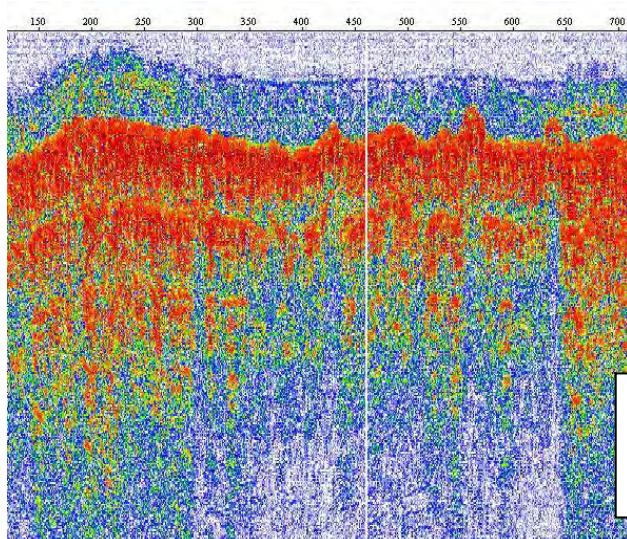


Figure 3  
Example of severe corrosion  
pitting over a large area

**Sample Inspection report**  
**Ultrasonic Thickness Measurements**  
**External Floor Plates (toe)**  
**Tank ID: 8**

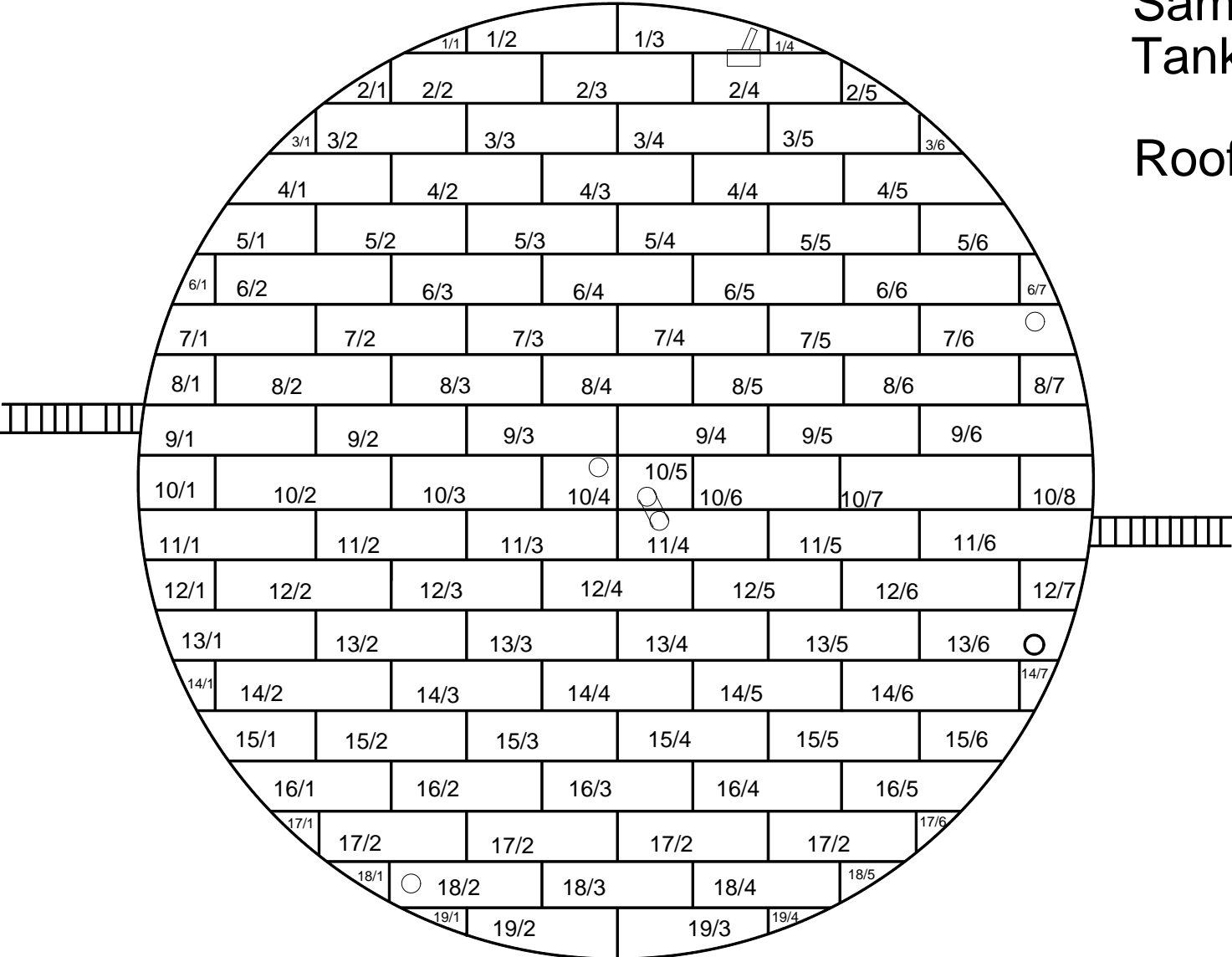
All measurements are in millimeters

Ultrasonic thickness measurements were taken in a clockwise direction every 500mm starting from centre of manway 1									
500mm	7.1	1000mm	7.5	1500mm	7.4	2000mm	7.1	2500mm	8.1
3000mm	7.1	3500mm	7.2	4000mm	8	4500mm	7.4	5000mm	8
5500mm	7.2	6000mm	7.2	6500mm	8	7000mm	8	7500mm	8
8000mm	7.1	8500mm	7.3	9000mm	7.9	9500mm	8	10000mm	8.2
10500mm	7.5	11000mm	7.2	11500mm	7.2	12000mm	7.8	12500mm	7.5
13000mm	7.4	13500mm	7	14000mm	7.1	14500mm	7.1	15000mm	7.2
15500mm	7.3	16000mm	7.4	16500mm	8.1	17000mm	8.2	17500mm	7.1
18000mm	7.1	18500mm	7.9	19000mm	7.3	19500mm	7.5	20000mm	7.2
20500mm	7	21000mm	7.2	21500mm	7.7	22000mm	7.2	22500mm	7.3
23000mm	7.4	23500mm	7.4	24000mm	7.5	24500mm	7.5	25000mm	7.3
25500mm	7.5	26000mm	7.2	26500mm	7.2	27000mm	7.1	27500mm	7.5
28000mm	7.9	28500mm	7.1	29000mm	7.2	29500mm	7.3	30000mm	7.1
30500mm	7.9	31000mm	7.8	31500mm	7.9	32000mm	7.8	32500mm	7.2
33000mm	7.3	33500mm	7.8	34000mm	7.9	34500mm	7.9	35000mm	7.2
35500mm	7.1	36000mm	8	36500mm	7.1	37000mm	8	37500mm	7.5
38000mm	7.5	38500mm	7.9	39500mm	8	40000mm	8.1	40500mm	7.9
41000	7.8	41500	7.1	42000	7.2	42500	7.5	43000	7.6
43500	7.8	44000	7	44500	7.1	4500	7.4	45500	7.3
45000	7.2	46500	7.2	47000	7.1	47500	7.7	48000	7.7
48500	7.1	49006	7.9	49500	7.8	50000	7.8	50500	7.2
51000	7.1	51500	7.7	52000	7.9	52500	7	53000	7.9
53500	7.8	54000	7.8	54500	7.7	55000	7.7	55500	7.1
56000	7.2	56000	7.2	57000	7.1	57500	7	58000	7.9
8500	7	59000	7.2	59500		60000	7.3	60500	7.1

61000	7	61500	7.9	62000	7.5	62500	7.3	63000	7.8
63500	7.7	64000	7.7	64500	7.7	65000	7.5	65500	7.6
66000	7.8	66500	7.8	67000	7.7	67500	7.6	68000	7.5
68500	7.6	69000	7.6	69500	7.5	70000	7.3	70500	7.7
71000	7.9	71500	7	72000	7.2	72500	7.2	73000	7.7
73500	7.6	74000	7.7	74500	7.5	75000	7.6	75500	7.8
76000	7.9	76500	7.8	77000	7.7	77500	7.9	78000	7.1
78500	7.9	79000	7.9	79500	7.7	80000	7.9	80500	7
81000	7.7	81500	7.5	82000	7.7	82500	7.9	83000	7.9
83500	7.7	84000	7.7	84500	7.6	85000	7.5	85500	7.7
86000	7.5	865000	7.6						

# Sample Inspection Report Tank 8

## Roof Plate Layout



**Sample Inspection Report**  
**Tank ID: 8**  
**Ultrasonic Thickness Measurements**  
**Roof Plates**

All measurements are in Millimeters

<b>Plate</b>	<b>Reading 1</b>	<b>Reading 2</b>	<b>Reading 3</b>	<b>Reading 4</b>	<b>Reading 5</b>
1/1	4.5mm	4.4mm	4.5mm	4.5mm	4.5
1/2	4.4	4.4	4.2	4.5	4.5
1/3	4.4	4.4	4.5	4.5	4.5
1/4	4.4	4.4	4.3	4.1	4.2
2/1	4.5	4.5	4.4	4.6	4.4
2/2	4.5	4.5	4.5	4.5	4.5
2/3	4.4	4.5	4.7	4.4	4.5
2/4	4.4	4.3	4.4	4.4	4.4
2/5	4.3	4.4	4.4	4.3	4.4
3/1	4.5	4.2	4.5	.5	4.5
3/2	4.4	4.3	4.4	4.4	4.5
3/3	4.2	4.4	4.5	4.4	4.4
3/4	4.5	4.5	4.5	4.4	4.5
3/5	4.4	4.4	4.4	4.4	4.2
3/6	4.4	4.4	4.2	4.5	4.5
4/1	4.5	4.4	4.4	4.3	4.4
4/2	4.5	4.4	4.4	4.5	4.4
4/3	4.8	4.8	4.8	4.8	4.7
4/4	4.4	4.4	4.4	4.4	4.4
4/5	4.4	4.4	4.5	4.5	4.5
5/1	4.4	4.4	4.5	4.4	4.4
5/2	4.8	4.7	4.8	4.8	4.8
5/3	5.0	5.0	4.9	4.8	4.8
5/4	4.8	4.9	4.9	4.8	4.9
5/5	4.4	4.4	4.5	4.5	4.4
5/6	4.5	4.4	4.5	4.5	4.5
6/1	4.8	4.8	4.8	4.8	4.8
6/2	4.7	4.8	4.7	4.7	4.7
6/3	4.9	4.8	4.8	4.9	5.0
6/4	4.9	4.8	4.8	4.8	4.8
6/5	5.0	4.9	4.9	4.8	4.8
6/6	4.7	4.8	4.8	4.7	4.8
6/7	4.7	4.8	4.8	4.7	4.4
7/1	5.0	4.8	4.8	4.8	4.8
7/2	4.7	4.8	4.8	4.9	4.9
7/3	4.8	4.8	4.8	4.8	4.9
7/4	5.0	4.9	5.0	5.0	5.0
7/5	5.0	5.0	5.0	4.9	4.9
7/6	4.8	4.7	4.8	4.8	4.8

<b>Plate</b>	<b>Reading 1</b>	<b>Reading 2</b>	<b>Reading 3</b>	<b>Reading 4</b>	<b>Reading 5</b>
15/1	4.5	4.4	4.5	4.4	4.5
15/2	4.8	4.8	4.8	4.8	4.8
15/3	4.8	5	5	4.8	5
15/4	4.8	4.8	4.7	4.8	4.8
15/5	4.6	4.6	4.7	4.7	4.6
15/6	4.4	4.4	4.5	4.5	4.5
16/1	4.5	4.2	4.4	4.4	4.5
16/2	4.7	4.8	4.8	4.7	4.9
16/3	4.8	4.8	4.8	4.8	4.8
16/4	4.9	4.6	4.7	4.8	4.8
16/5	4.4	4.3	4.4	4.3	4.4
17/1	4.4	4.4	4.5	4.4	4.4
17/2	4.1	4.2	4.4	4.4	4.2
17/3	4.8	0.5	4.9	4.8	4.7
17/4	4.8	4.8	4.8	4.8	4.8
17/5	4.5	4.3	4.5	4.4	4.3
17/6	4.2	4.3	4.2	4.5	4.1
18/1	4.2	4.5	4.3	4.4	4.2
18/2	4.8	4.6	4.8	4.7	4.8
18/3	4.7	4.8	4.8	4.9	4.8
18/4	4.5	4.4	4.5	4.3	4.5
18/5	4.5	4.4	4.5	4.4	4.3
19/1	4.4	4.5	4.5	4.4	4.5
19/2	4.5	4.4	4.5	4.6	4.5
19/3	4.4	4.4	4.5	4.4	4.5
19/4	4.8	4.7	4.7	4.7	4.

**Sample Inspection Report**  
**Tank No. 8**  
**Visual Inspection**  
**External Appurtenances**

A visual inspection of the following external areas was carried out during this survey:

**Vertical ladder**

Paint condition good, no signs of distress, excessive material flaking, thinning or corrosion staining.

**Steps**

Paint condition good, no signs of distress, excessive material flaking, thinning or corrosion staining.

**External nozzles**

Paint condition good, no signs of distress, excessive material staining, thinning or corrosion staining.

**Compensation plates**

Paint condition good, no signs of distress, excessive material staining, thinning or corrosion staining. Screw thread attachments for pressure testing of compensation plates painted over.

**Handrail stanchions and welds (roof and steps)**

Paint condition good, no signs of distress, excessive material staining, thinning or corrosion staining.

**Roof vents and hatches**

Paint condition good, no signs of distress, excessive material staining, thinning or corrosion staining.

**Roof plates**

Paint condition good, no signs of distress, excessive material staining, thinning or corrosion staining.

**Roof wind-guard and supports**

Several severely corroded areas were noted on the roof wind-guard plates during this survey. The corroded areas are located directly beneath and around the support brackets for the Wind-guard. Remedial action / replacement required.

The following could not be inspected visually during this survey due to access restrictions:

**Vertical Pipe**

**Sample Inspection Report**  
**Tank No. 8**  
**Magnetic Particle Inspection / Visual Inspection**  
**External attachment welds**

A magnetic particle and visual inspection of the following external attachment welds was carried out during this survey:

**Manway**

No linear crack type indications were detected during this survey. Welds appeared to be in a good condition with no significant undercut, corrosion, cracking or distortion visible. The coating appeared to be in a good condition.

**Compensation plates**

No linear crack type indications were detected during this survey. Welds appeared to be in a good condition with no significant undercut, corrosion, cracking or distortion visible. The coating appeared to be in a good condition.

**Roof vents and hatches**

No linear crack type indications were detected during this survey. Welds appeared to be in a good condition with no significant undercut, corrosion, cracking or distortion visible. The coating appeared to be in a good condition.

**Handrail Stanchions**

No linear crack type indications were detected during this survey. Welds appeared to be in a good condition with no significant undercut, corrosion, cracking or distortion visible. The coating appeared to be in a good condition.

**Steps / landings**

No linear crack type indications were detected during this survey. Welds appeared to be in a good condition with no significant undercut, corrosion, cracking or distortion visible. The coating appeared to be in a good condition.

The following external attachment welds could not be tested during this survey due to access restrictions:

**Vertical pipe brackets**

**Vertical ladder brackets**

**Roof Wind-guard Welds**