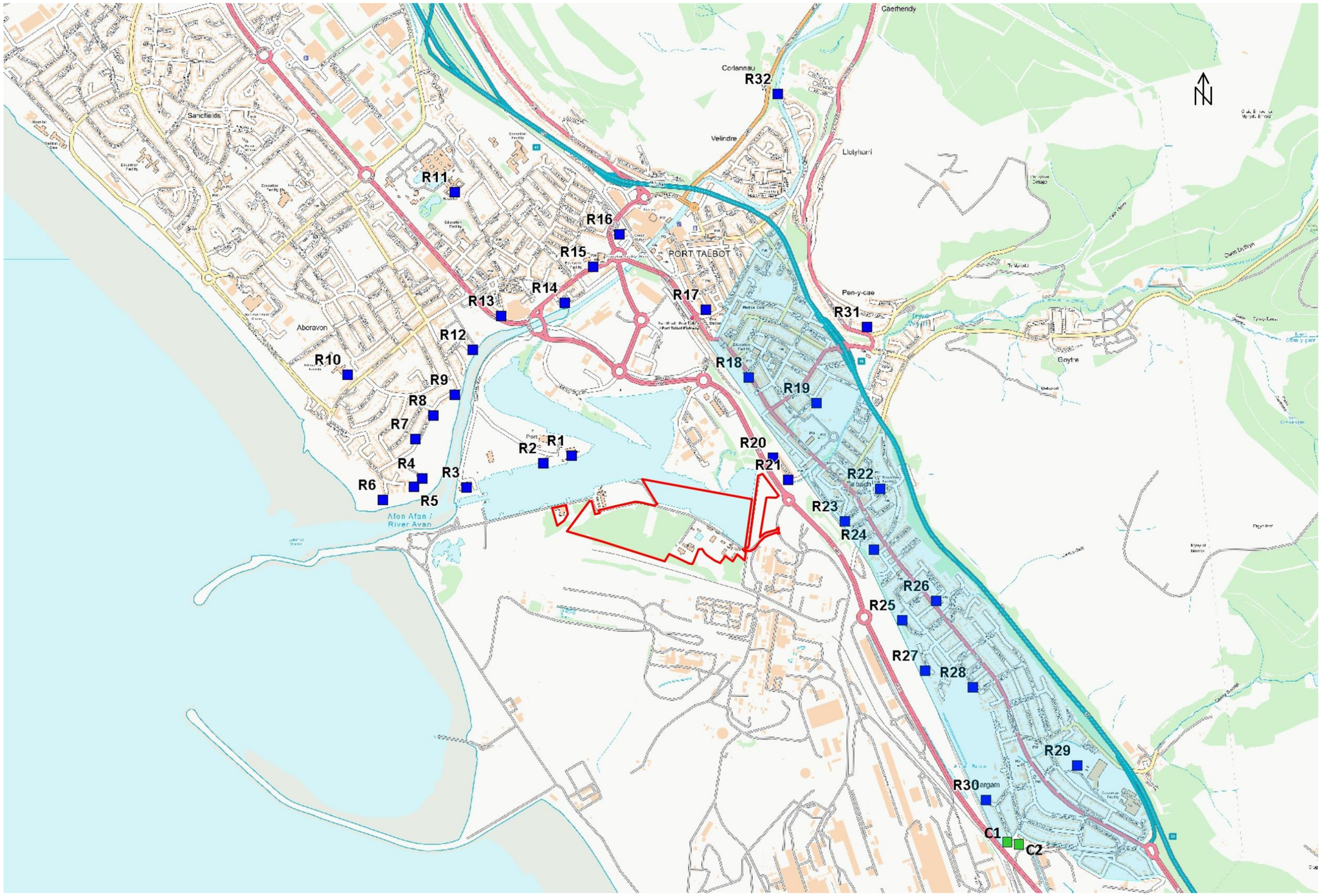


EIA Study Area Boundary

AQMA Boundary

Human Receptors used in Point Source Modelling

Human Receptors used in Roads Modelling

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.1 Human Receptors

PROJECT NUMBER:
AQ051968

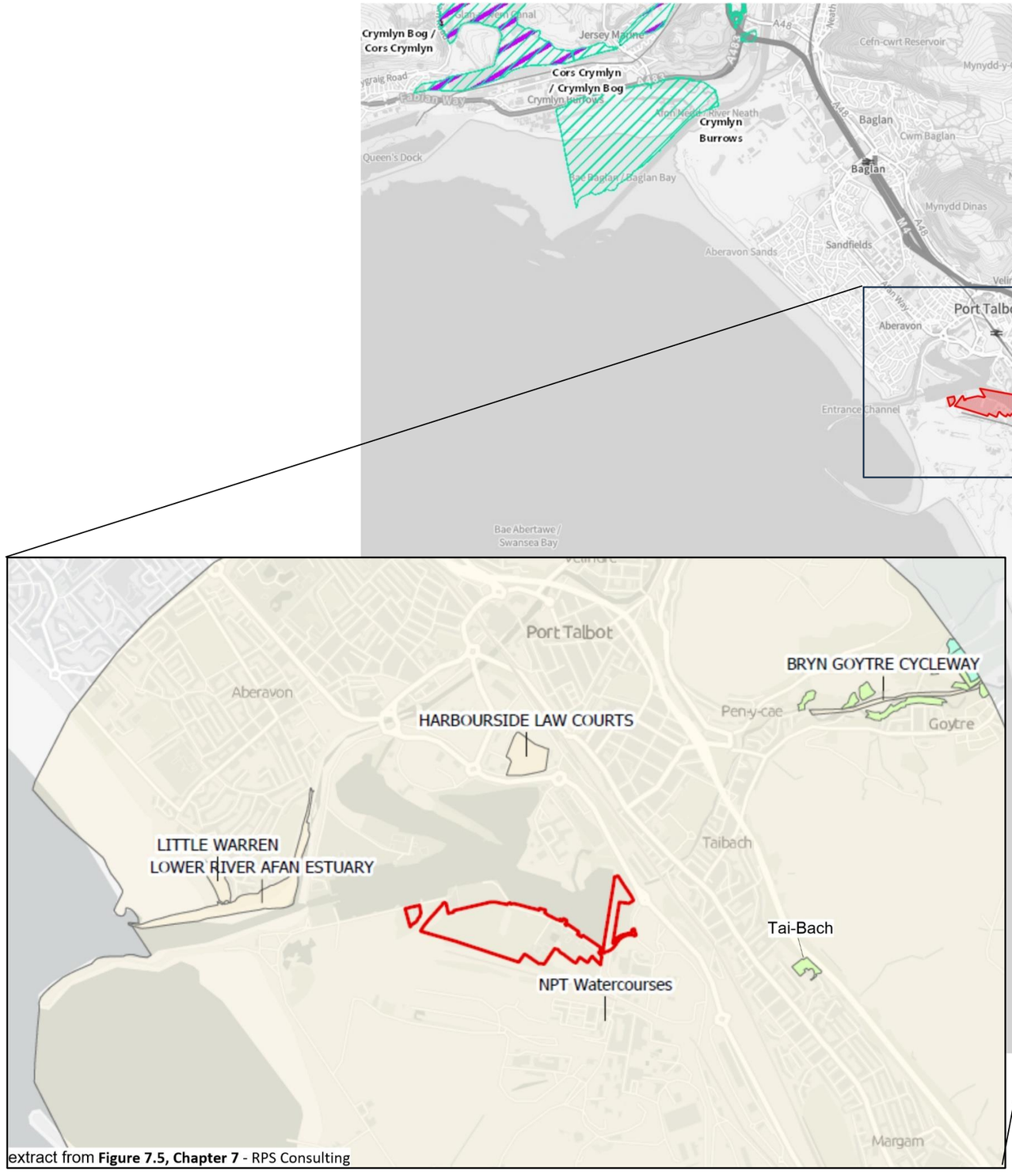
DRAWING NUMBER:
11.1

CHECKED BY:
JK

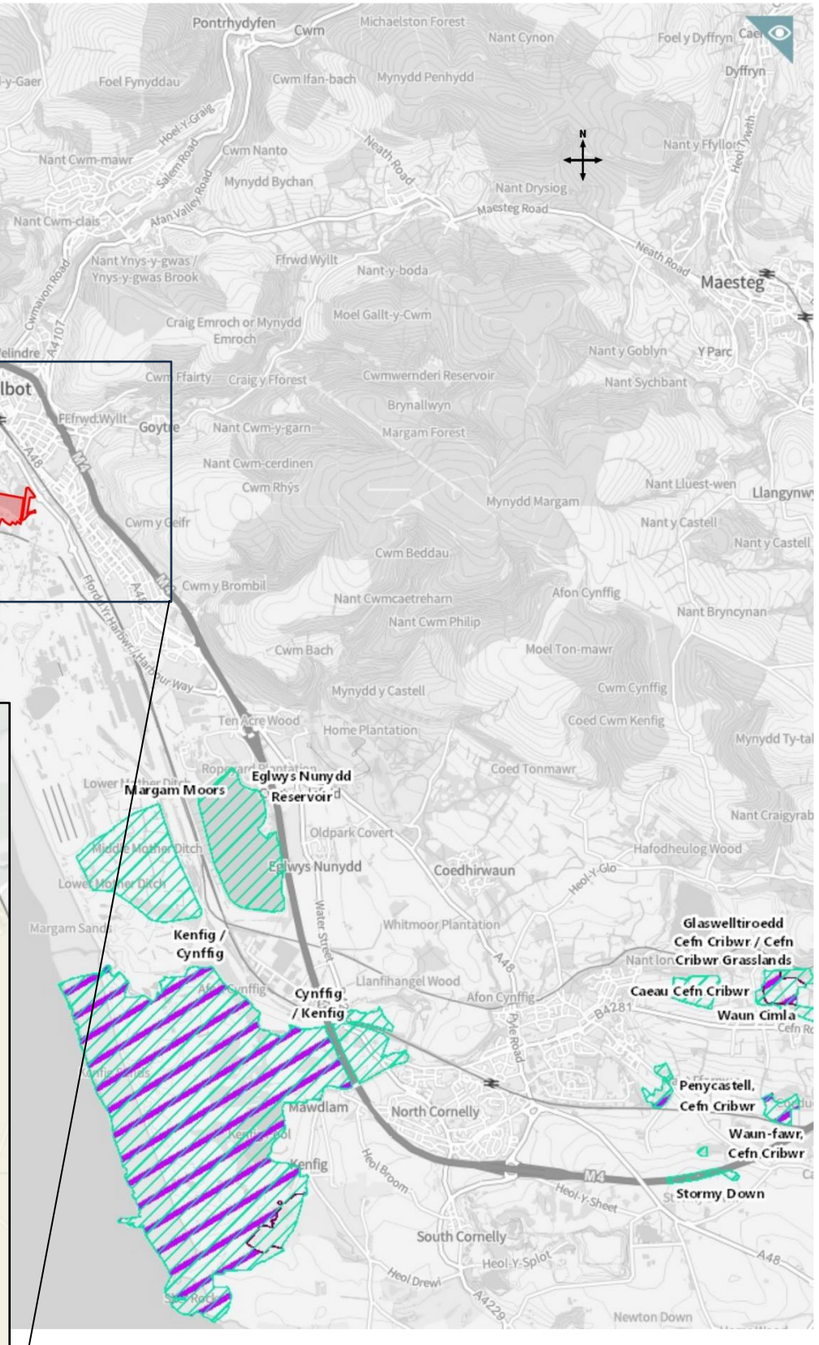
REVISION:
1.0

STATUS:
FINAL

DATE:
July2023



extract from **Figure 7.5, Chapter 7** - RPS Consulting



EIA Study Area Boundary

Special Area of Conservation

Sites of Special Scientific Interest

Site of Importance for Nature Conservation

Ancient Woodland

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.2 Ecological Receptors

PROJECT NUMBER:
AQ051968

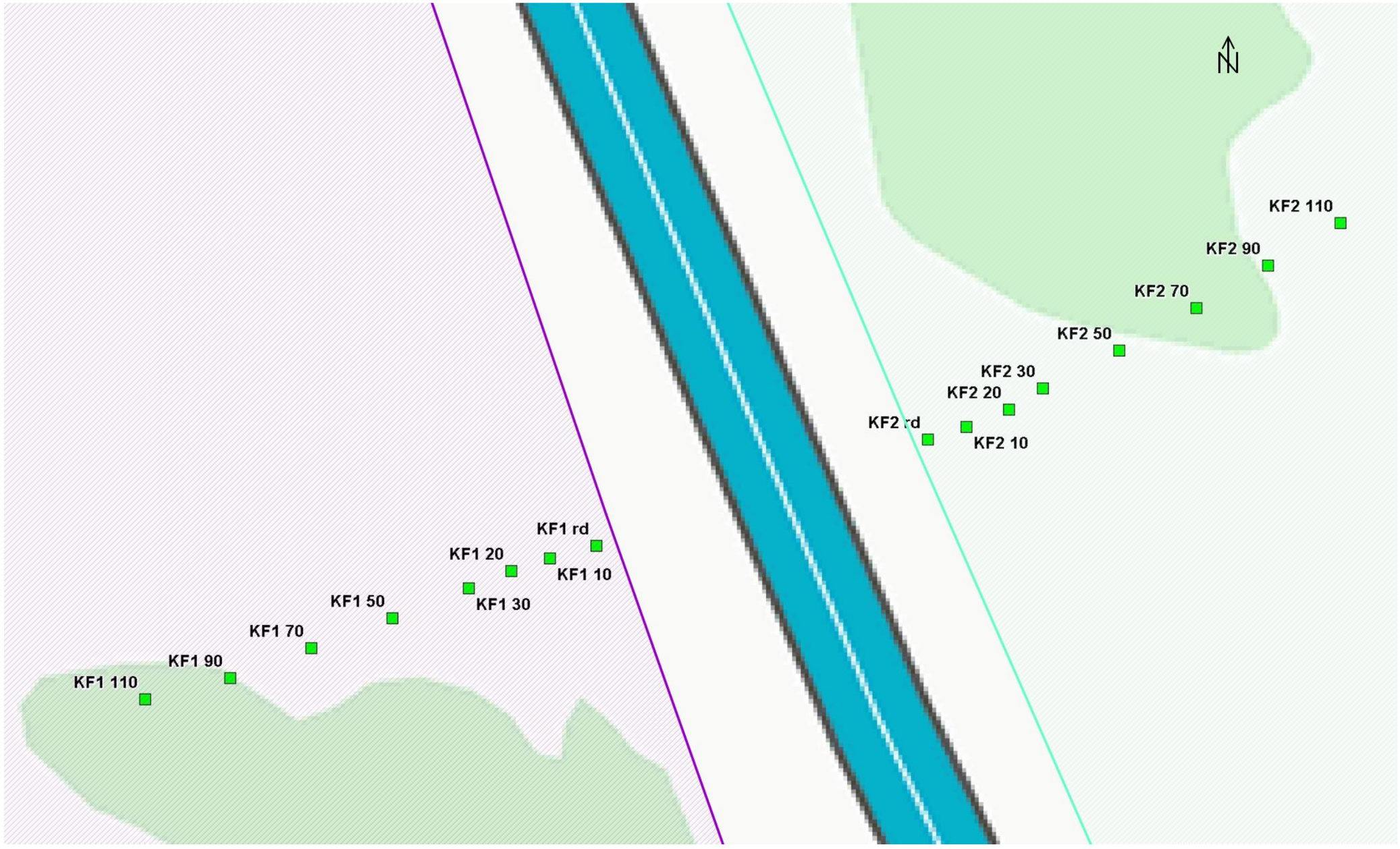
DRAWING NUMBER:
11.2

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
Aug 2023



Special Areas of Conservation

Sites of Special Scientific Interest

Kenfig SAC Receptors

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.3 Kenfig SAC/SSSI Receptors used in Roads Modelling

PROJECT NUMBER:
AQ051968

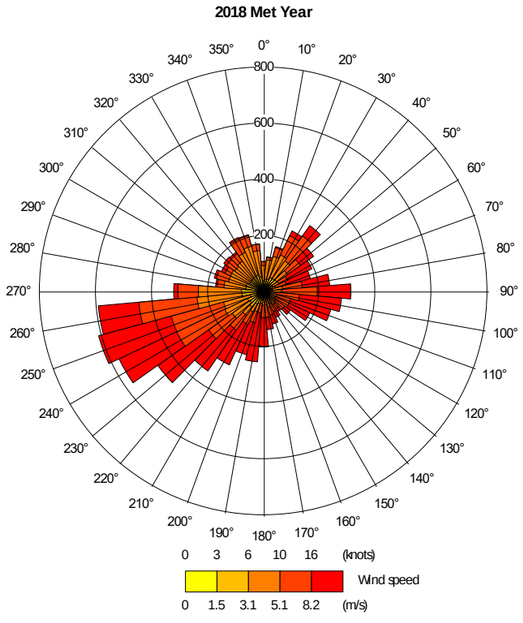
DRAWING NUMBER:
11.3

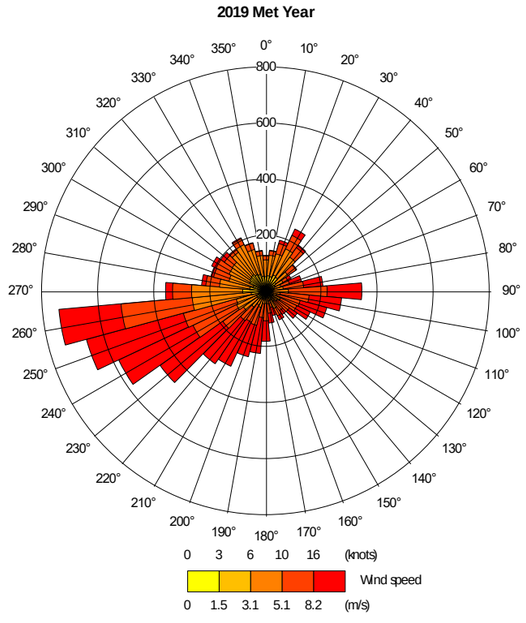
CHECKED BY:
JK

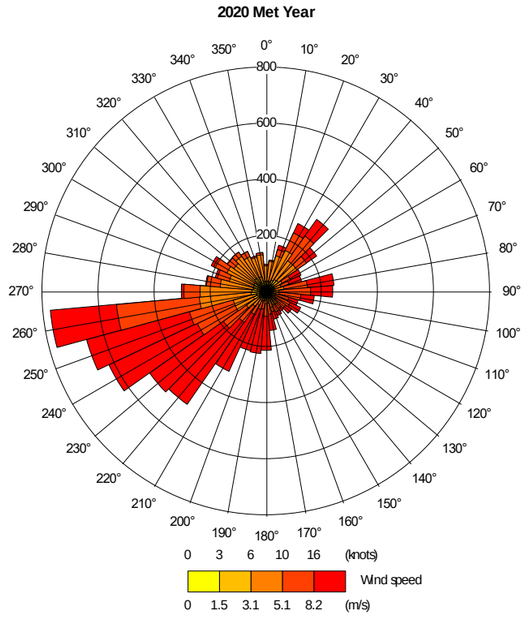
REVISION:
1.0

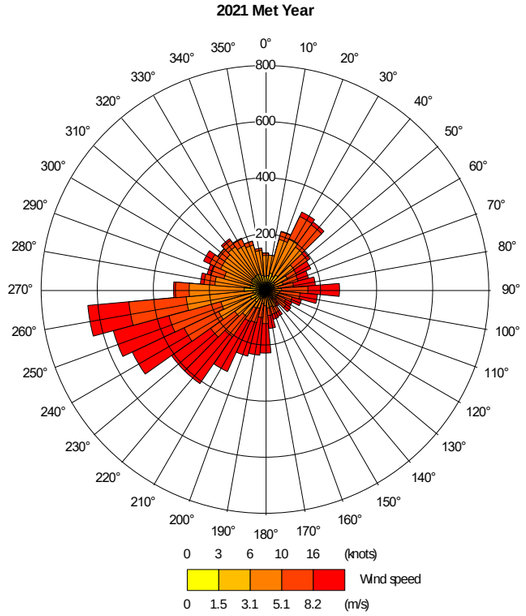
STATUS:
FINAL

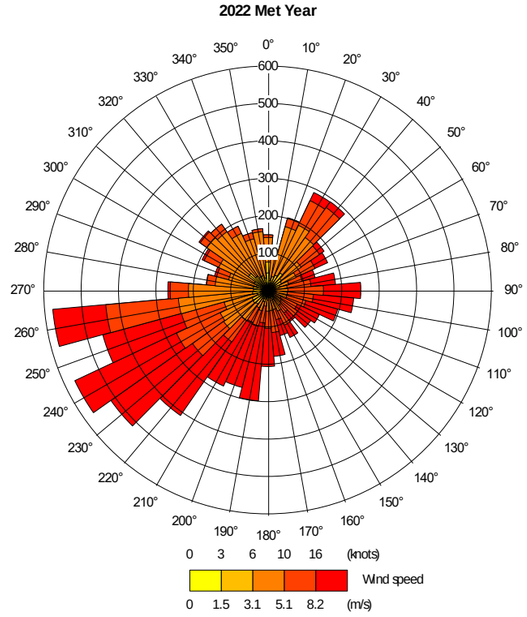
DATE:
June 2023











CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.4 Windrose' for Mumbles Head 2018 to 2022

PROJECT NUMBER:
AQ051968

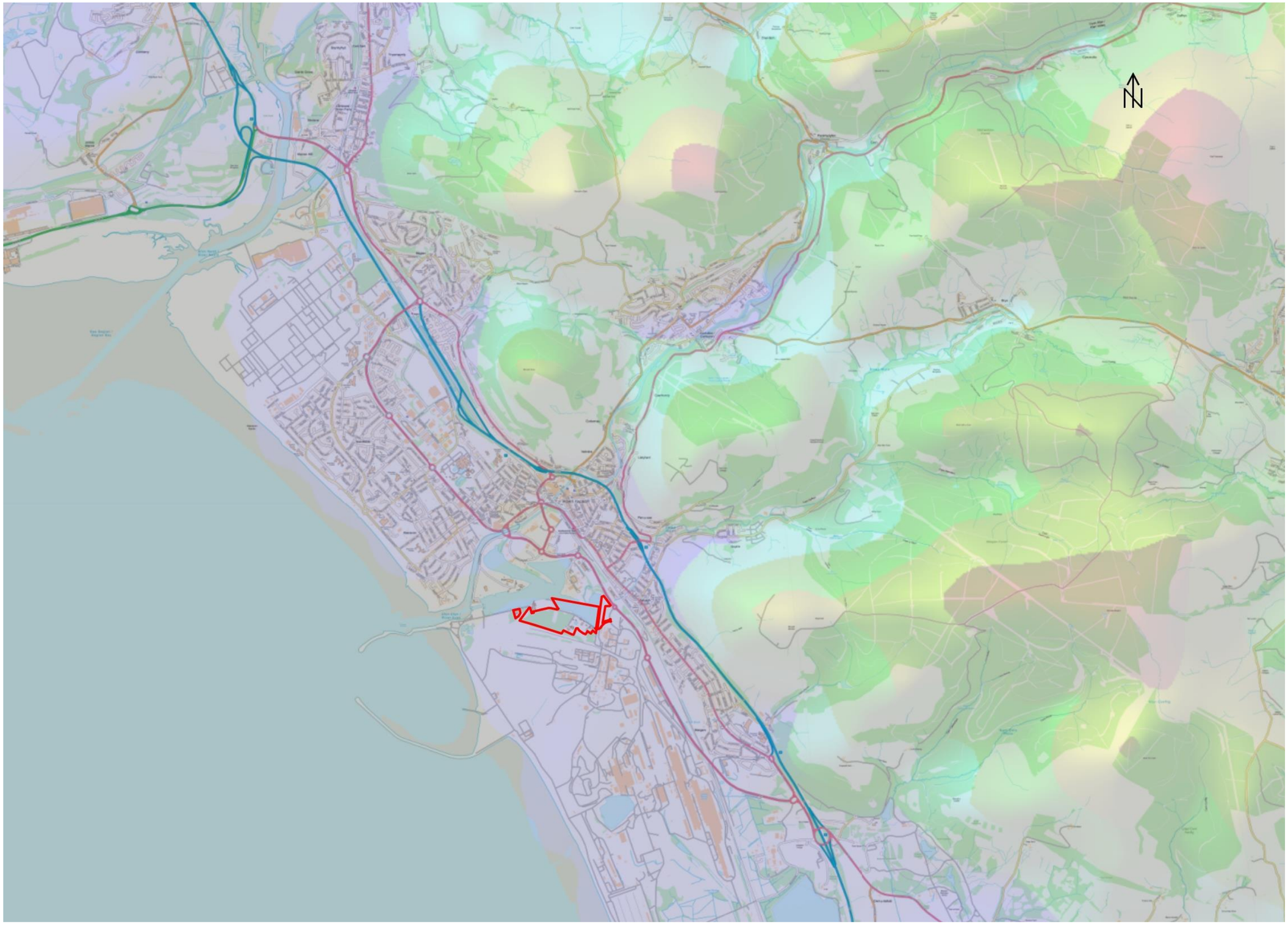
DRAWING NUMBER:
11.4

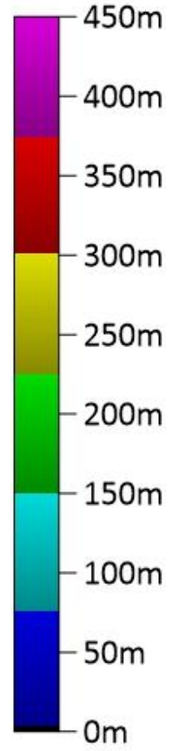
CHECKED BY:
JK

REVISION:
1.0

STATUS:
FINAL

DATE:
June 2023





CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.5 Terrain Data used in Modelling

PROJECT NUMBER:
AQ051968

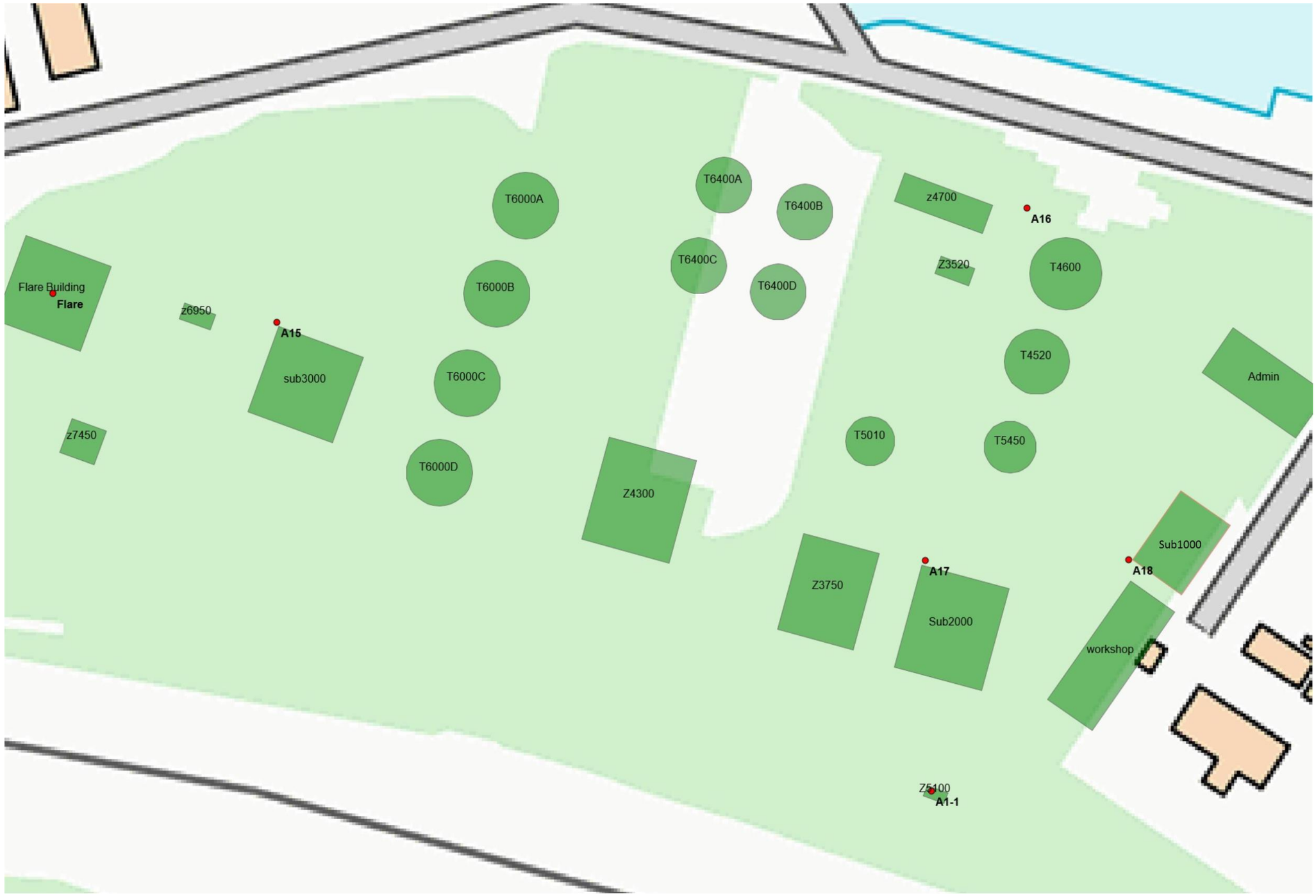
DRAWING NUMBER:
11.5

CHECKED BY:
JK

REVISION:
1.0

STATUS:
FINAL

DATE:
July 2023



- emission stack
- building

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.6 Building and Emission Stack Locations

PROJECT NUMBER:
AQ051968

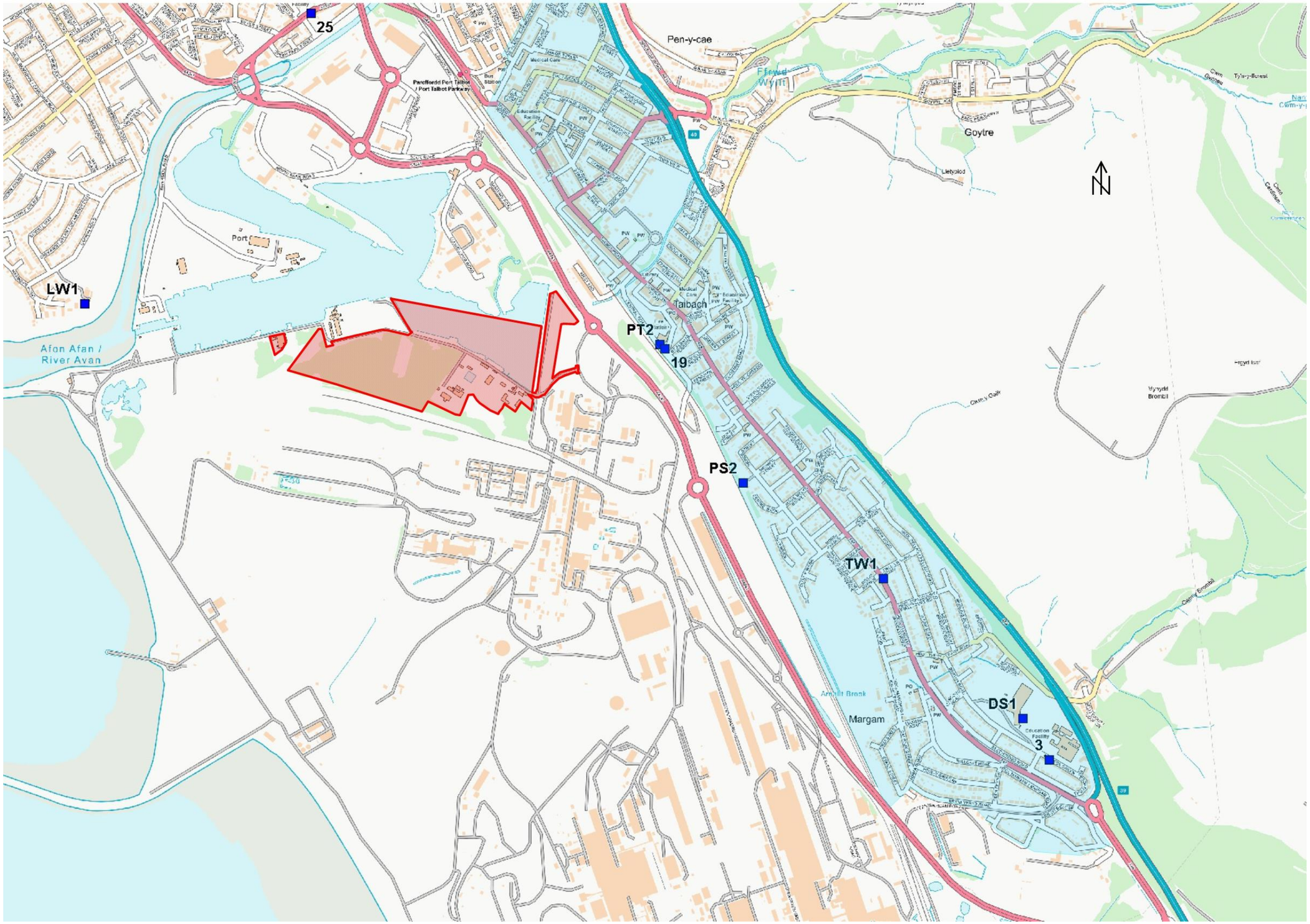
DRAWING NUMBER:
11.5

CHECKED BY:
JK

REVISION:
1.0

STATUS:
FINAL

DATE:
July 2023



EIA Study Area Boundary

AQMA Boundary

Monitoring Sites

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.7 Location of NPT Monitoring Sites in Port Talbot

PROJECT NUMBER:
AQ051968

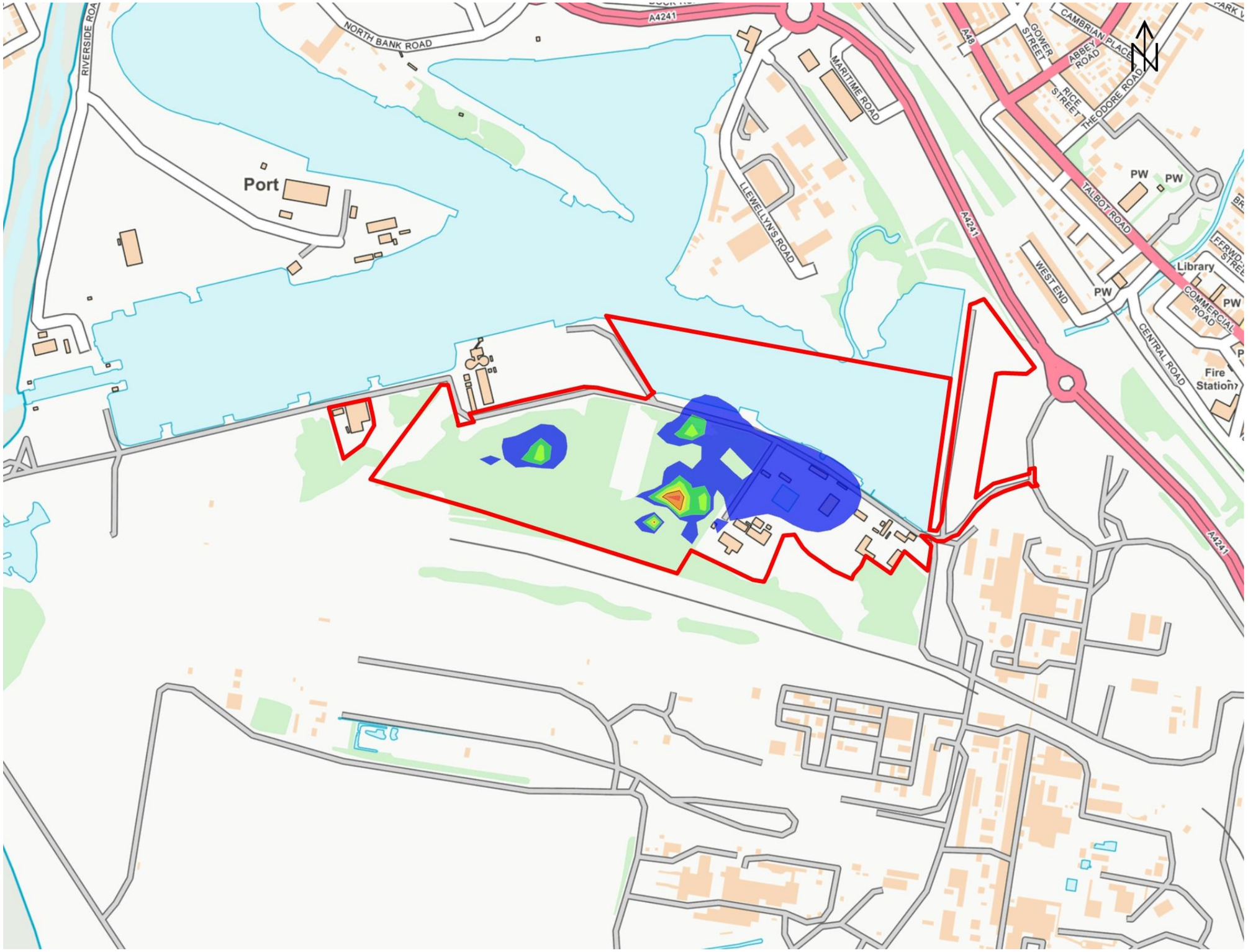
DRAWING NUMBER:
11.7

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023



Annual Mean NO_2 µg/m³

6
5
4
3
2
1

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.8 Predicted Annual Mean NO_2 Process Contribution from On-site Point Source Emissions (µg/m³)

PROJECT NUMBER:
AQ051968

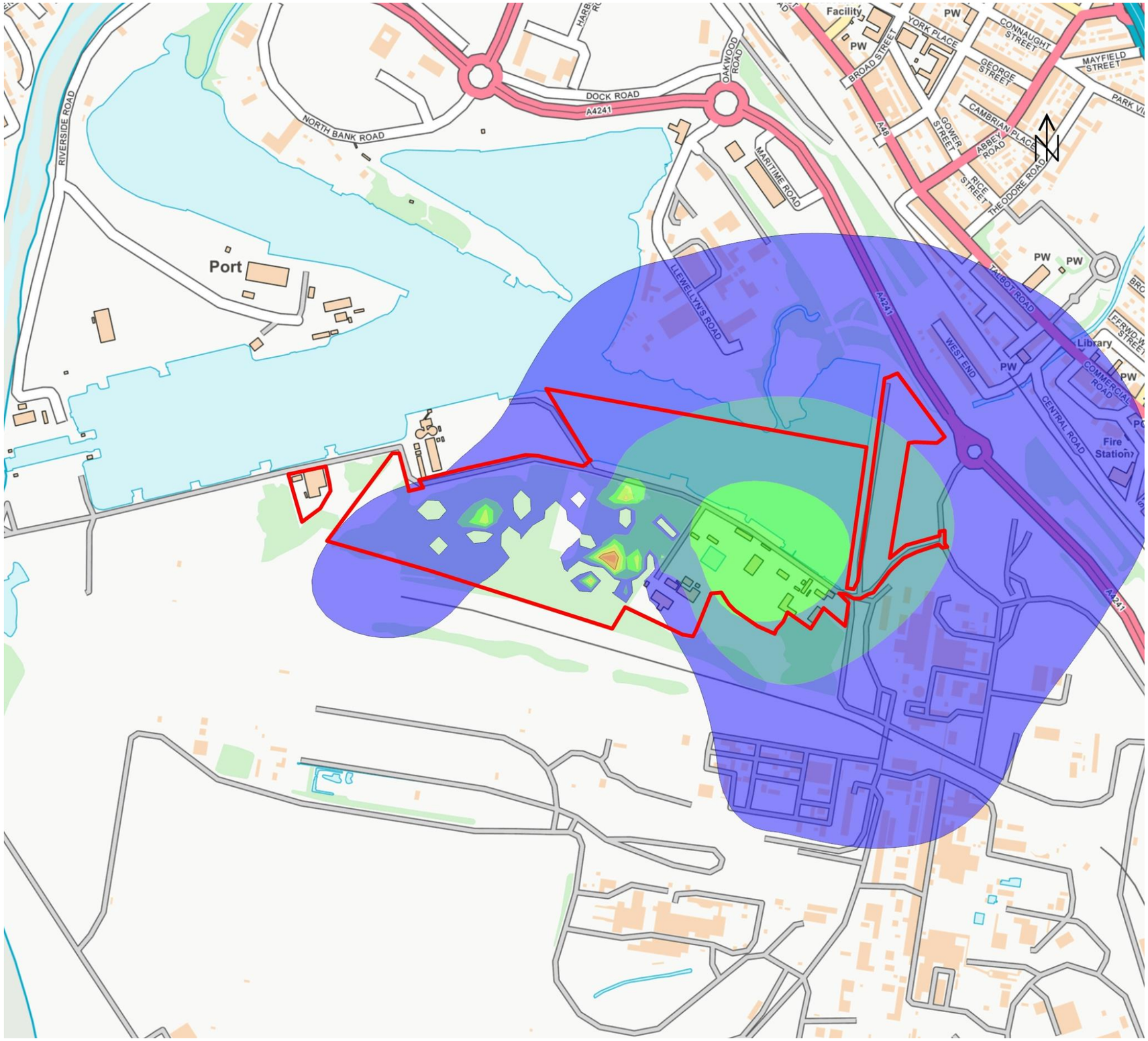
DRAWING NUMBER:
11.8

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023



Annual Mean PM_{10} µg/m³

0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.9 Predicted Annual Mean PM_{10} Process Contribution from On-site Point Source Emissions (µg/m³)

PROJECT NUMBER:
AQ051968

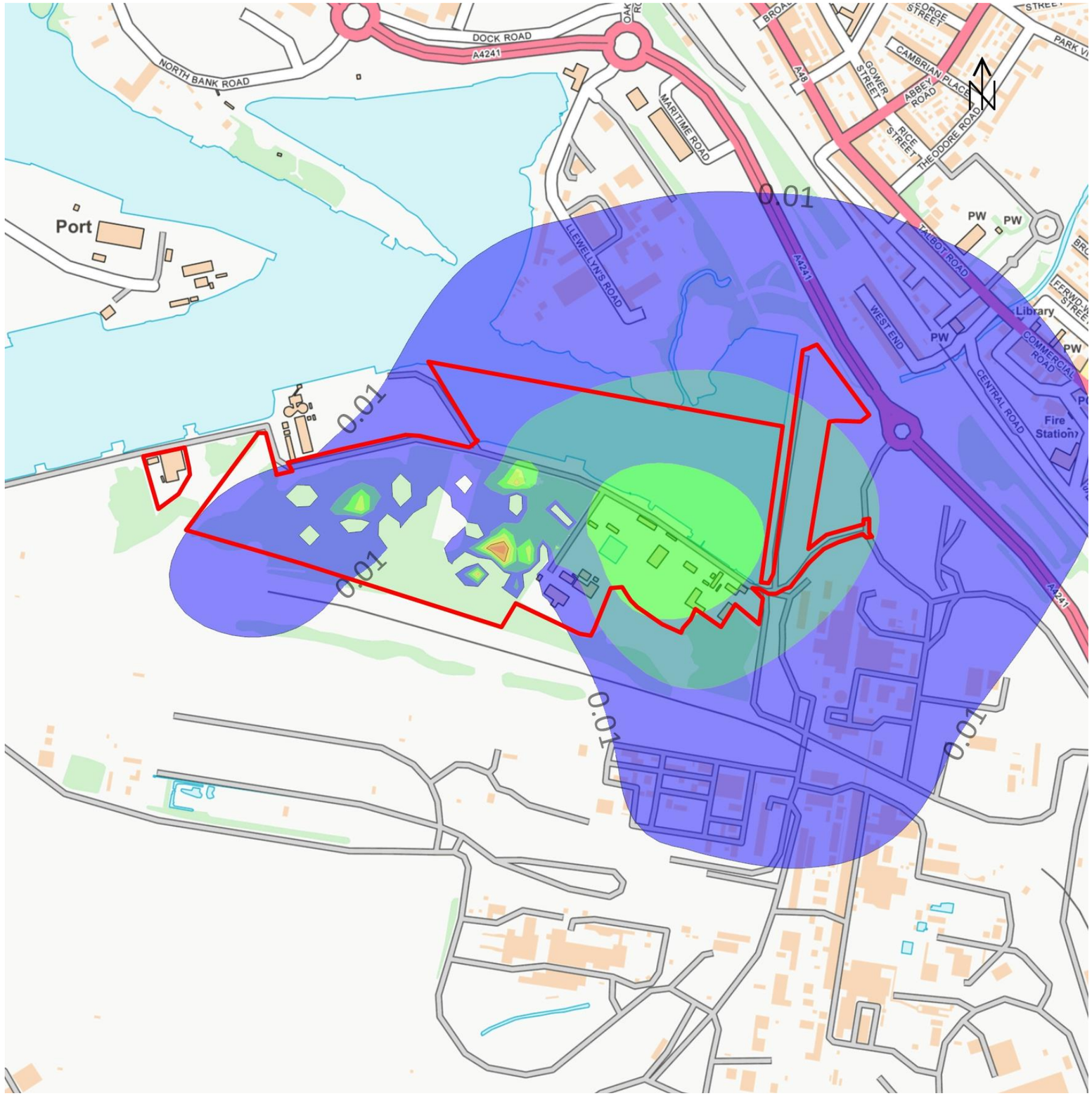
DRAWING NUMBER:
11.9

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023



Annual Mean $PM_{2.5}$ $\mu g/m^3$

0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.10 Predicted Annual Mean $PM_{2.5}$ Process Contribution from On-site Point Source Emissions ($\mu g/m^3$)

PROJECT NUMBER:
AQ051968

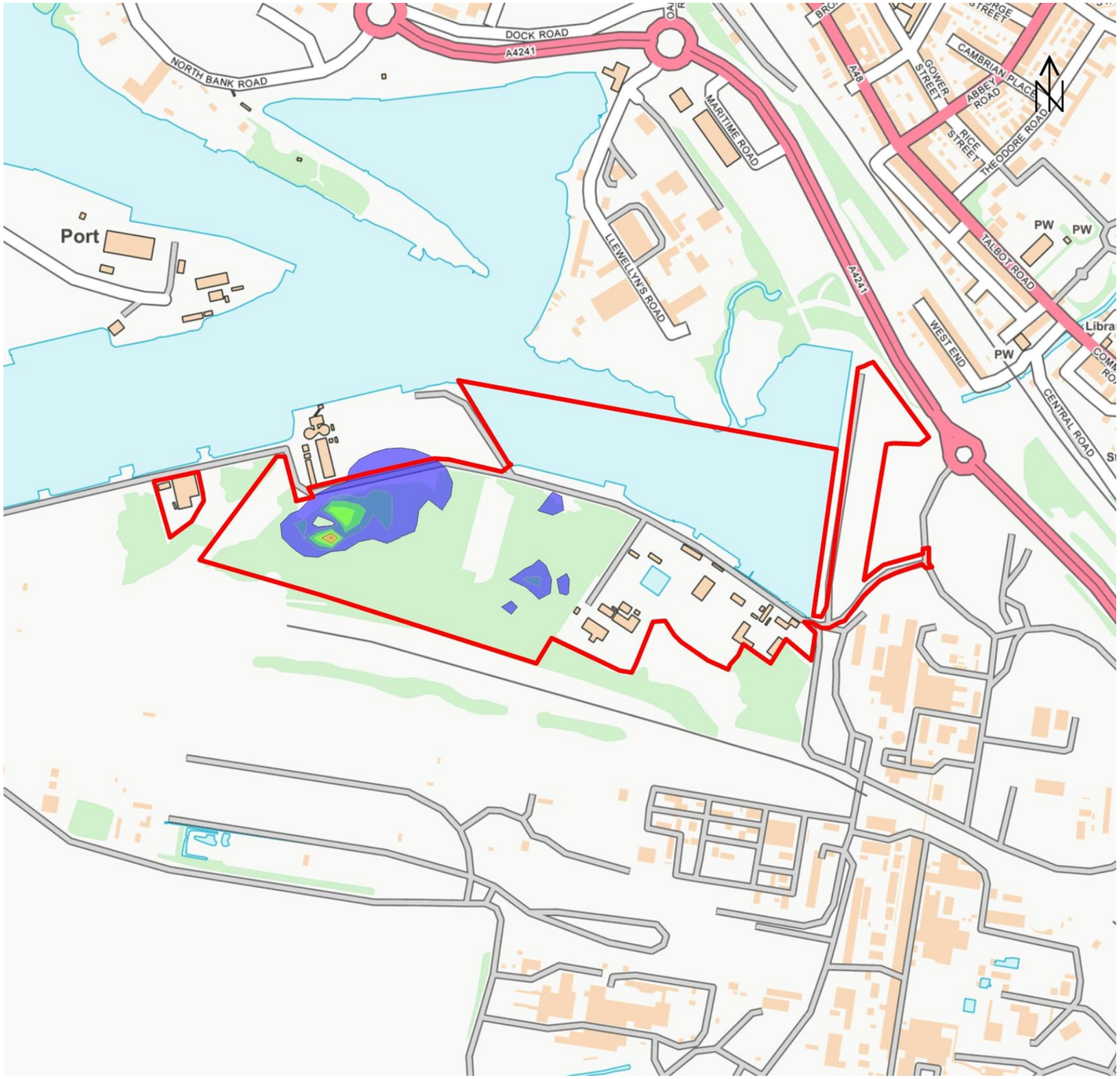
DRAWING NUMBER:
11.10

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023



Annual Mean VOC µg/m³

0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.11 Predicted Annual Mean VOC Process Contribution from On-site Point Source Emissions (µg/m³)

PROJECT NUMBER:
AQ051968

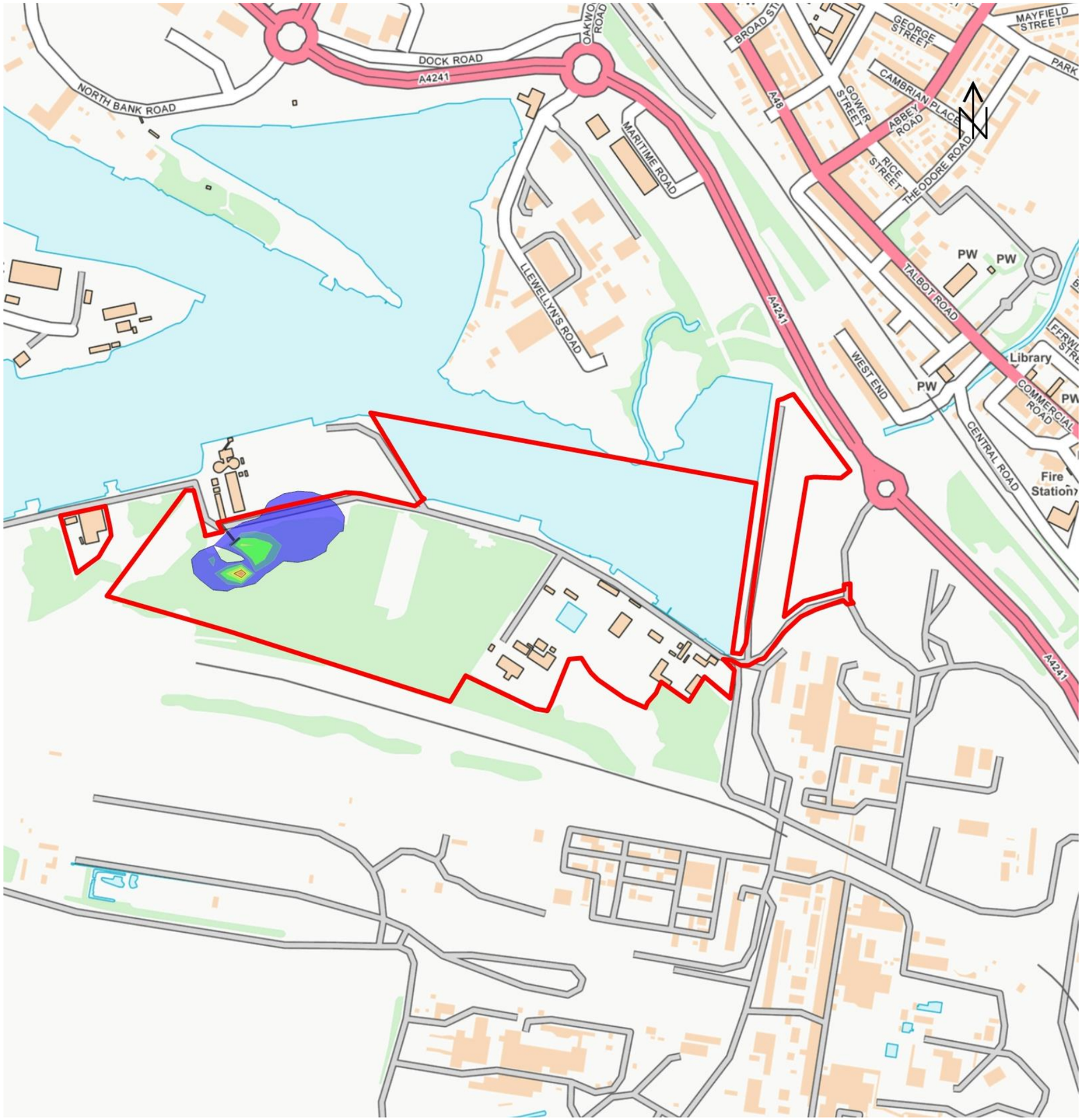
DRAWING NUMBER:
11.11

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023



Annual Mean Benzene µg/m³

8
7
6
5
4
3
2
1

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.12 Predicted Annual Mean Benzene Process Contribution from On-site Point Source Emissions (µg/m³)

PROJECT NUMBER:
AQ051968

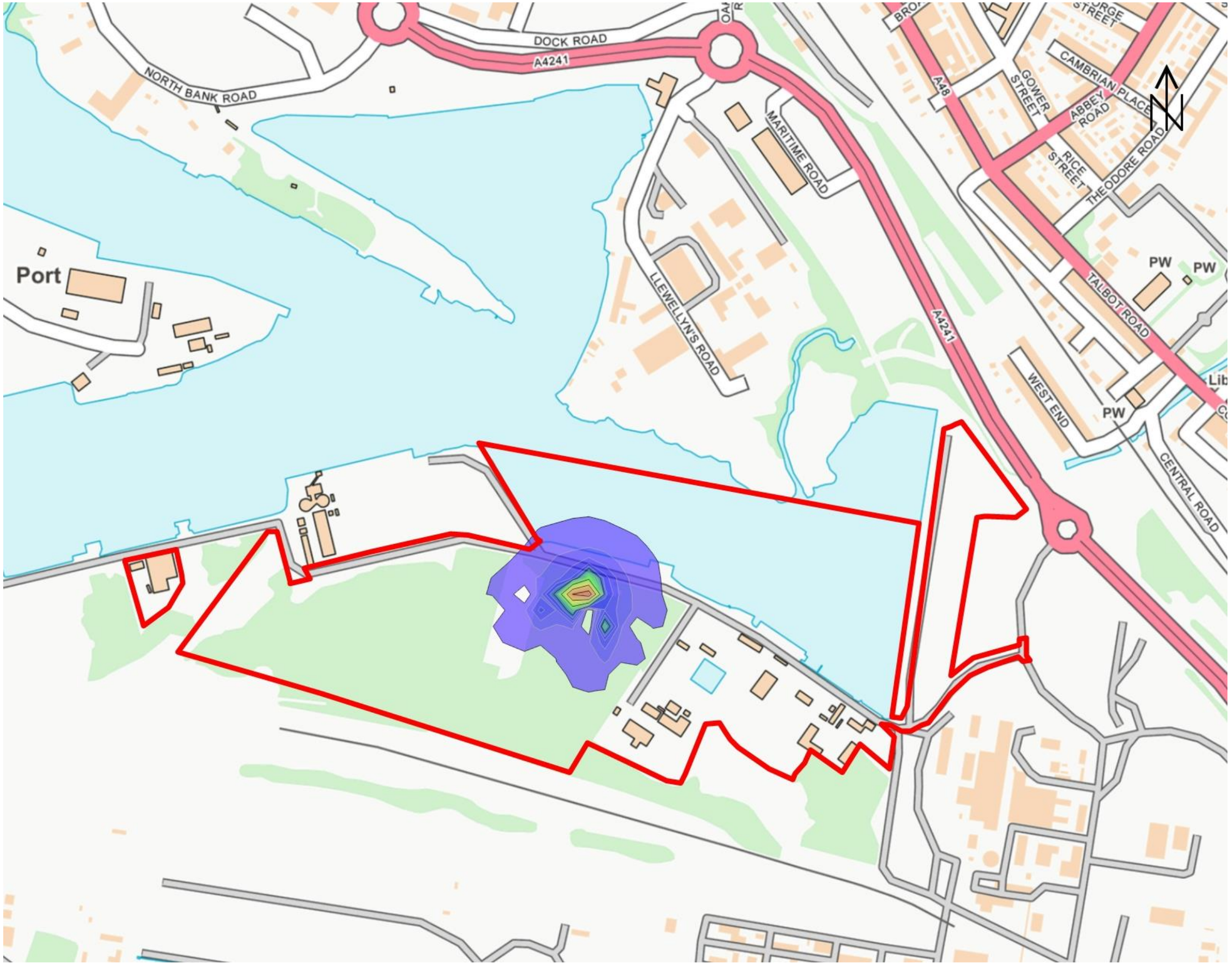
DRAWING NUMBER:
11.12

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023



99.8th Percentile of 1-hour NO_2 µg/m³

- 4800
- 4600
- 4400
- 4200
- 4000
- 3800
- 3600
- 3400
- 3200
- 3000
- 2800
- 2600
- 2400
- 2200
- 2000
- 1800
- 1600
- 1400
- 1200
- 1000
- 800
- 600
- 400
- 200

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.13 Predicted 99.8th Percentile 1-hour NO_2 Process Contribution from On-site Point Source Emissions (µg/m³)

PROJECT NUMBER:
AQ051968

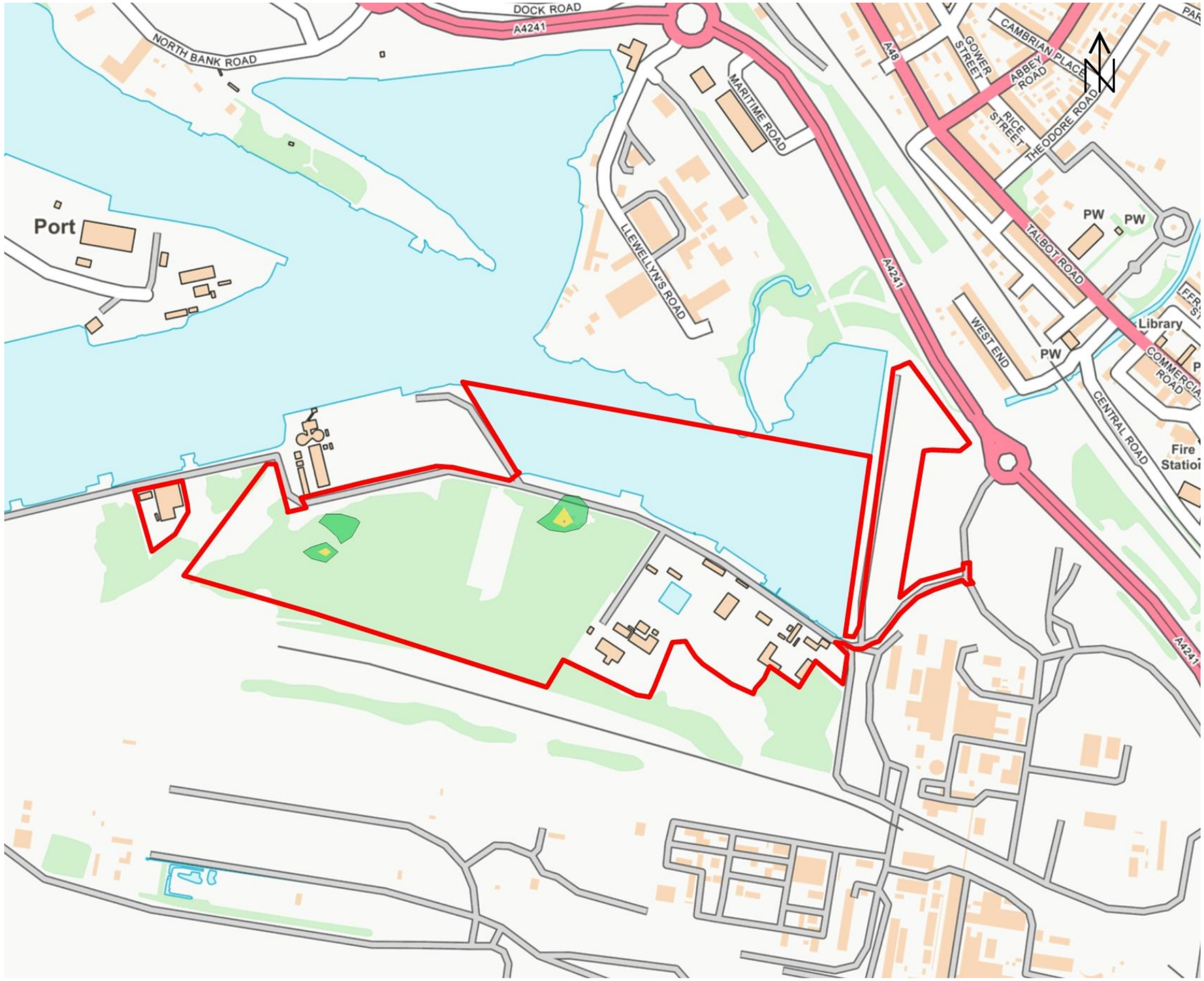
DRAWING NUMBER:
11.13

CHECKED BY:
JK

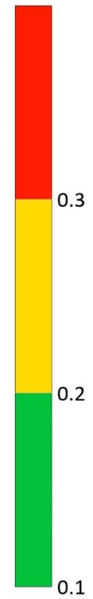
REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023



8-hour Mean CO
mg/m³



CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.14 Predicted 8-hour CO Process Contribution from On-site Point Source Emissions (mg/m³)

PROJECT NUMBER:
AQ051968

DRAWING NUMBER:
11.14

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023

99.8th Percentile of 15-minute SO_2 µg/m³

950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.15 Predicted 99.8th Percentile 15-minute SO_2 Process Contribution from On-site Point Source Emissions (µg/m³)

PROJECT NUMBER:
AQ051968

DRAWING NUMBER:
11.15

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023

99.7th Percentile of 1-hour SO_2 µg/m³

900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.16 Predicted 99.7th Percentile 1-hour SO_2 Process Contribution from On-site Point Source Emissions (µg/m³)

PROJECT NUMBER:
AQ051968

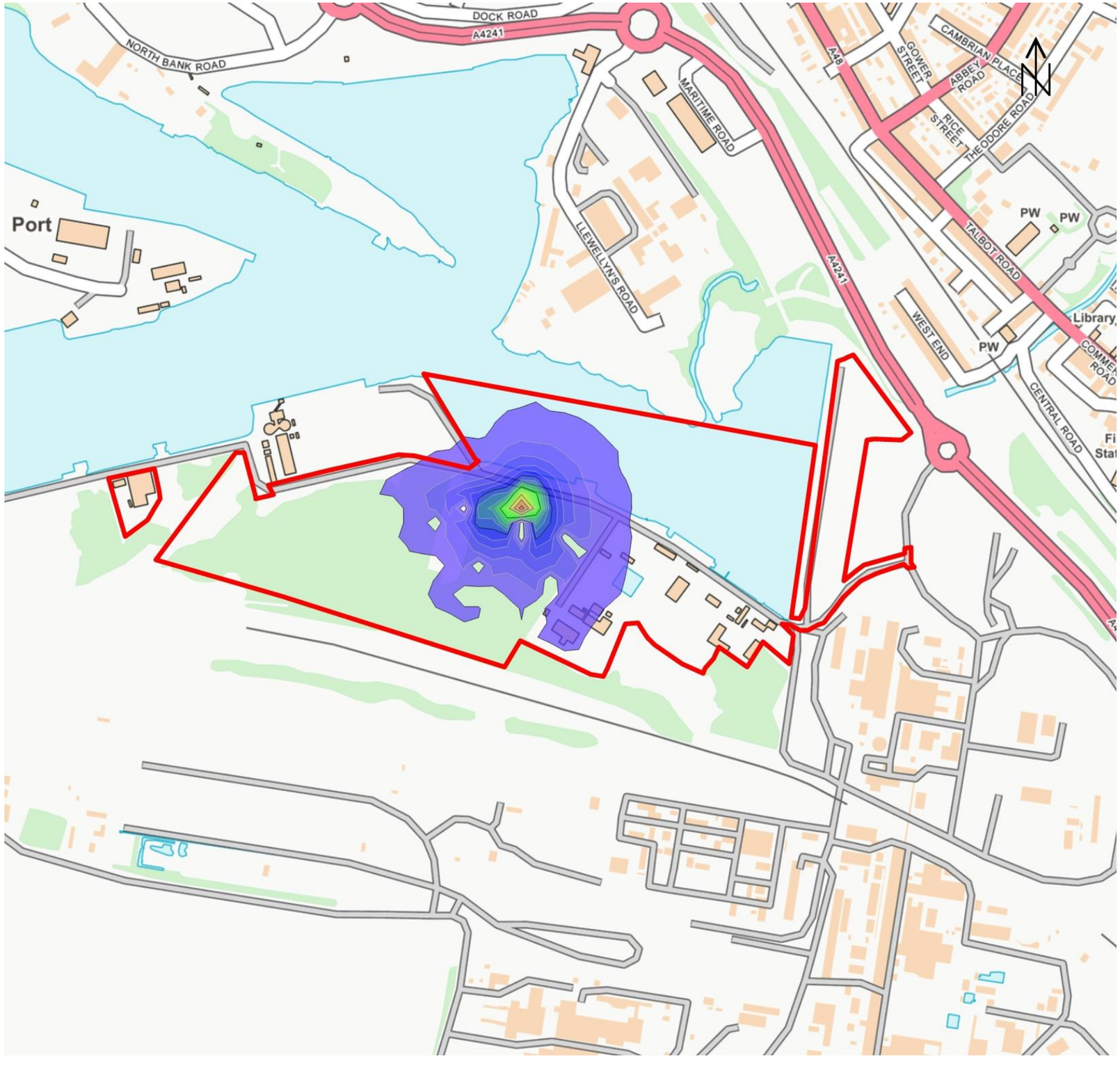
DRAWING NUMBER:
11.16

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023



99.2nd Percentile of 24-hour SO_2 µg/m³

290
270
250
230
210
190
170
150
130
110
90
70
50
30
10

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.17 Predicted 99.2nd Percentile 24-hour SO_2 Process Contribution from On-site Point Source Emissions (µg/m³)

PROJECT NUMBER:
AQ051968

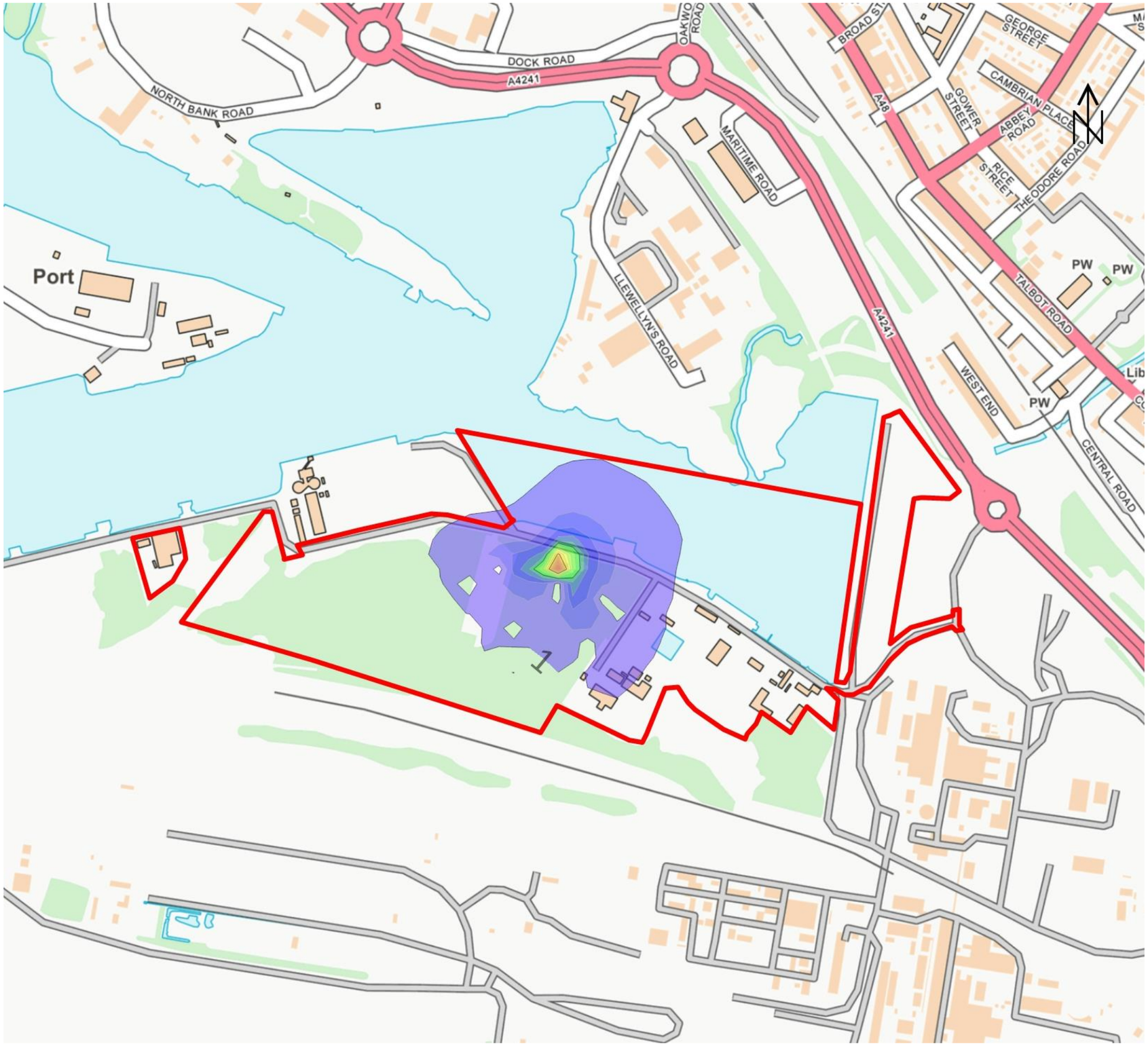
DRAWING NUMBER:
11.17

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023



90.4th Percentile of 24-hour PM_{10} µg/m³

29
27
25
23
21
19
17
15
13
11
9
7
5
3
1

CLIENT:
LanzaTech

PROJECT:
Project Dragon

DRAWING:
Figure 11.18 Predicted 90.4th Percentile 24-hour PM_{10} Process Contribution from On-site Point Source Emissions (µg/m³)

PROJECT NUMBER:
AQ051968

DRAWING NUMBER:
11.18

CHECKED BY:
JK

REVISION:
2.0

STATUS:
FINAL

DATE:
July 2023