
















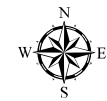


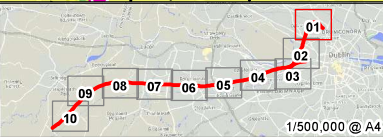
Legend

-  Engineering Elements
-  Buffers: 50m, 100m, 200m, 300m
-  Rail Network Centreline
-  Contaminated Land (2011 EIS)
-  Bedrock Aquifer Faults
- Pits and Quarries Areas**
-  Early to Mid-20thC: Pits
-  Mid-19thC: Pits
-  Early to Mid-20thC: Quarries
-  Mid-19thC: Quarries
-  Geological Heritage Area
- Quaternary Sediments (Subsoils)**
-  A, Alluvium
-  Ac, Alluvium (clayey)
-  GLs, Gravels derived from Limestones
-  Rck, Bedrock outcrop or subcrop
-  TLs, Till derived from limestones
-  Embankment
-  Urban



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Rev	Date	Drn	Chkd	Appd	Description
v01	12/11/2020	NO/N	SK	AG	Description



Date: 01/03/2021
Project Code: 6199586

Client: Iarnród Éireann Irish Rail

Scale: 1:10,000 @ A4

Issue: TTA/RPS

Engineering Designer: Atkins

Drawn: NO'N
Checked: SK
Approved: AG

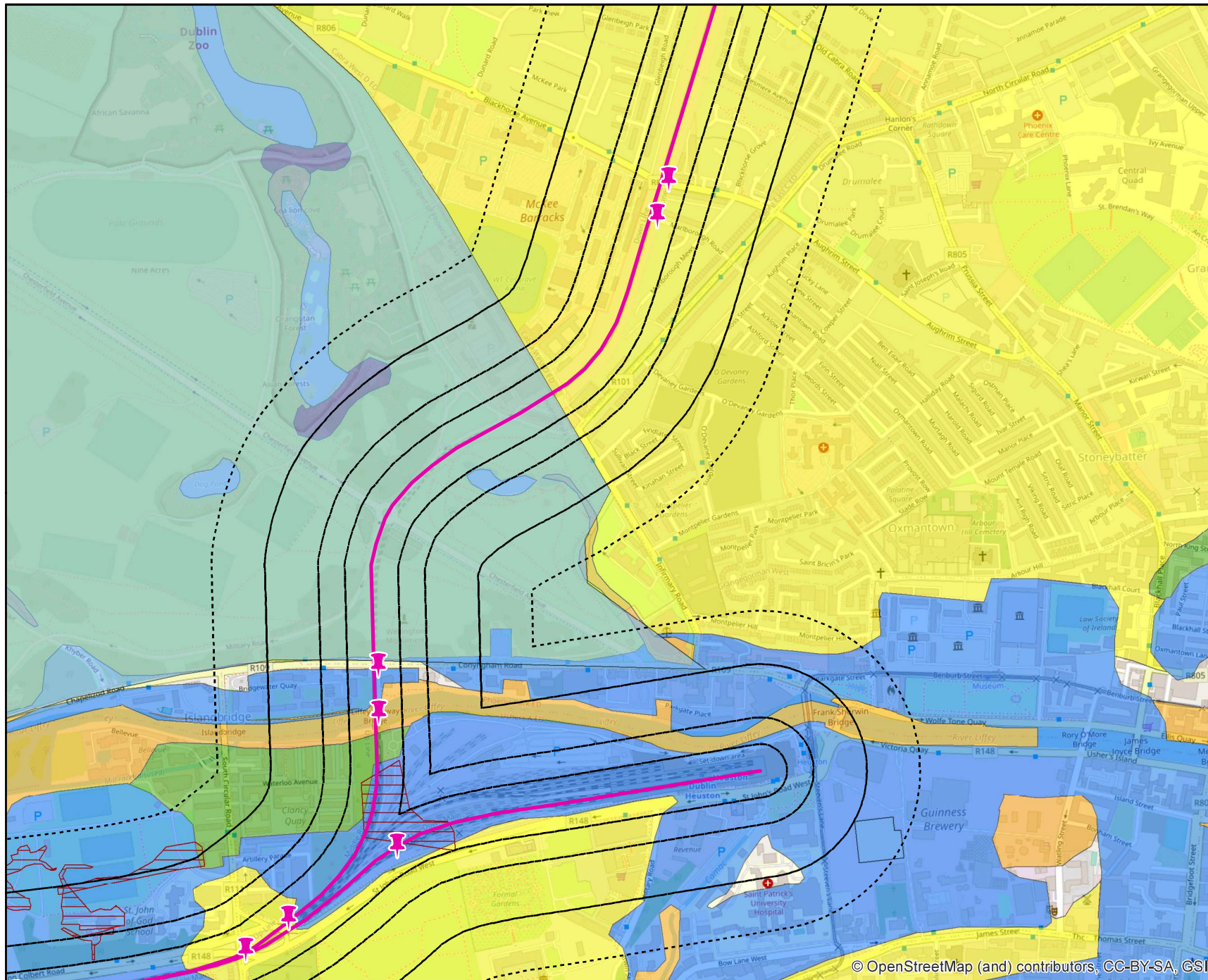
Project Title: DART + SOUTH WEST

Drawing Title: **Soils & Geology Constraints**
(Map 01 of 10)

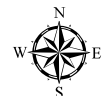
Drawing File Name: DP-04-23-DWG-EV-TTA-9864

Version: v01 | Status: S3

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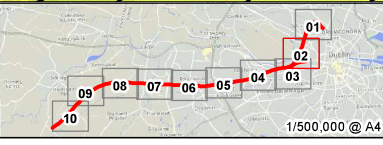


- ### Legend
- Engineering Elements
 - Buffers: 50m, 100m, 200m, 300m
 - Rail Network Centreline
 - Contaminated Land (2011 EIS)
 - Bedrock Aquifer Faults
 - Pits and Quarries Areas**
 - Early to Mid-20thC: Pits
 - Mid-19thC: Pits
 - Early to Mid-20thC: Quarries
 - Mid-19thC: Quarries
 - Geological Heritage Area**
 - Geological Heritage Area
 - Quaternary Sediments (Subsoils)**
 - A, Alluvium
 - Ac, Alluvium (clayey)
 - GLs, Gravels derived from Limestones
 - Rck, Bedrock outcrop or subcrop
 - TLs, Till derived from limestones
 - Embankment
 - Urban



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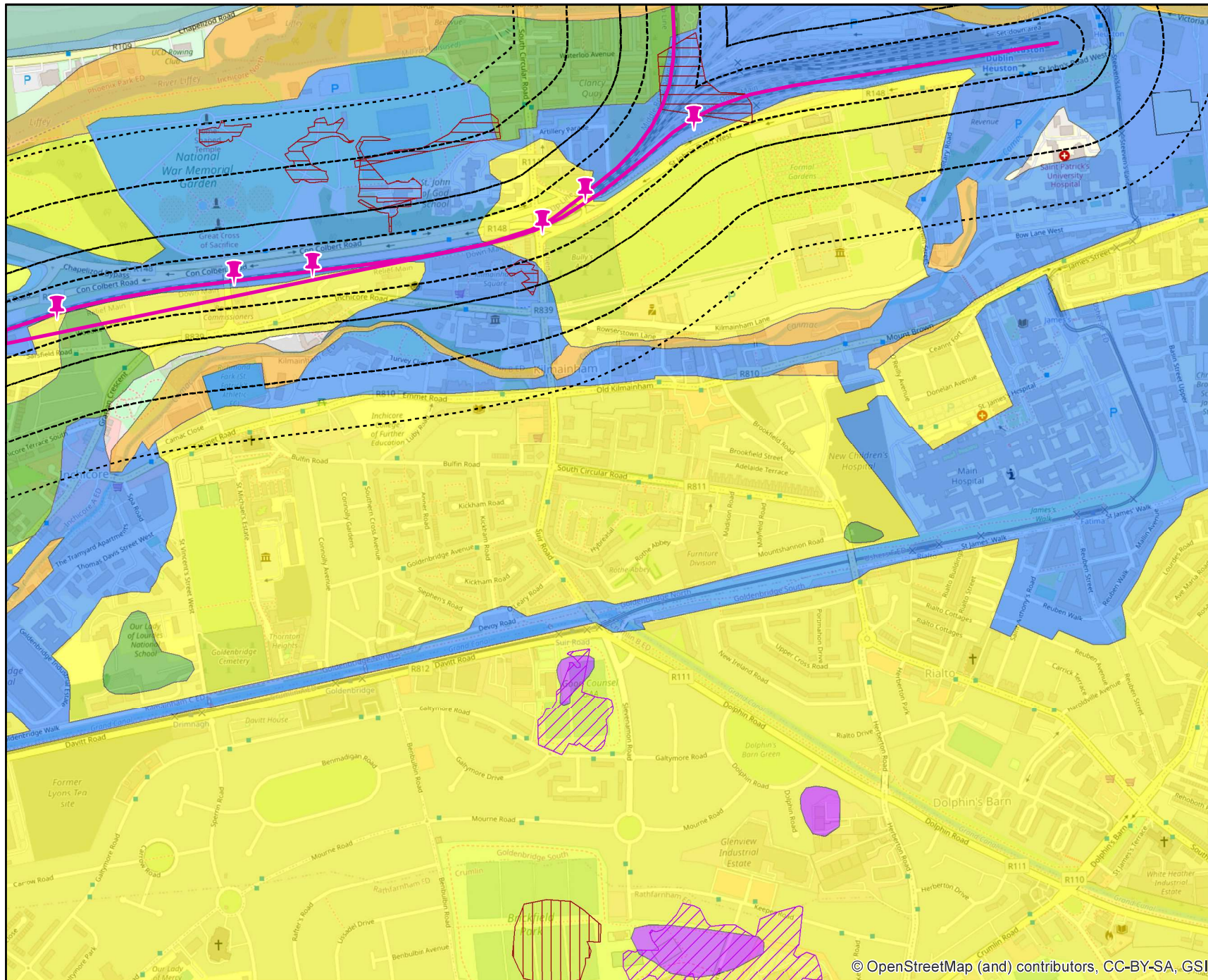


Rev	Date	Drn	Chkd	Appd	Description
v01	12/11/2020	NO'N	SK	AG	Description

Date	Scale	Drawn	Checked	Approved
01/03/2021	1:10,000 @ A4	NO'N	SK	AG
Project Code	Issuer	QMS Code		
6199586	TTA/RPS			

Project Title	DART + SOUTH WEST		
Drawing Title	Soils & Geology Constraints (Map 02 of 10)		
Drawing File Name	DP-04-23-DWG-EV-TTA-9864	Version	v01
Status	S3		

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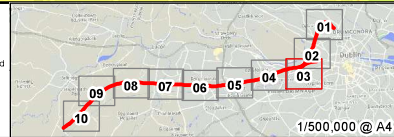
Legend

- Engineering Elements
- Buffers: 50m, 100m, 200m, 300m
- Rail Network Centreline
- Contaminated Land (2011 EIS)
- Bedrock Aquifer Faults
- Pits and Quarries Areas**
- Early to Mid-20thC: Pits
- Mid-19thC: Pits
- Early to Mid-20thC: Quarries
- Mid-19thC: Quarries
- Geological Heritage Area
- Quaternary Sediments (Subsoils)**
- A, Alluvium
- Ac, Alluvium (clayey)
- GLs, Gravels derived from Limestones
- Rck, Bedrock outcrop or subcrop
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- Embankment
- Urban



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Rev	Date	Dn	Chkd	Appd	Description
v01	12/11/2020	NIO/N	SK	AG	Description

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (TYPSA), supported by **RPS**

Date: 01/03/2021 | Scale: 1:10,000 @ A4 | Drawn: NQW | Checked: SK | Approved: AG

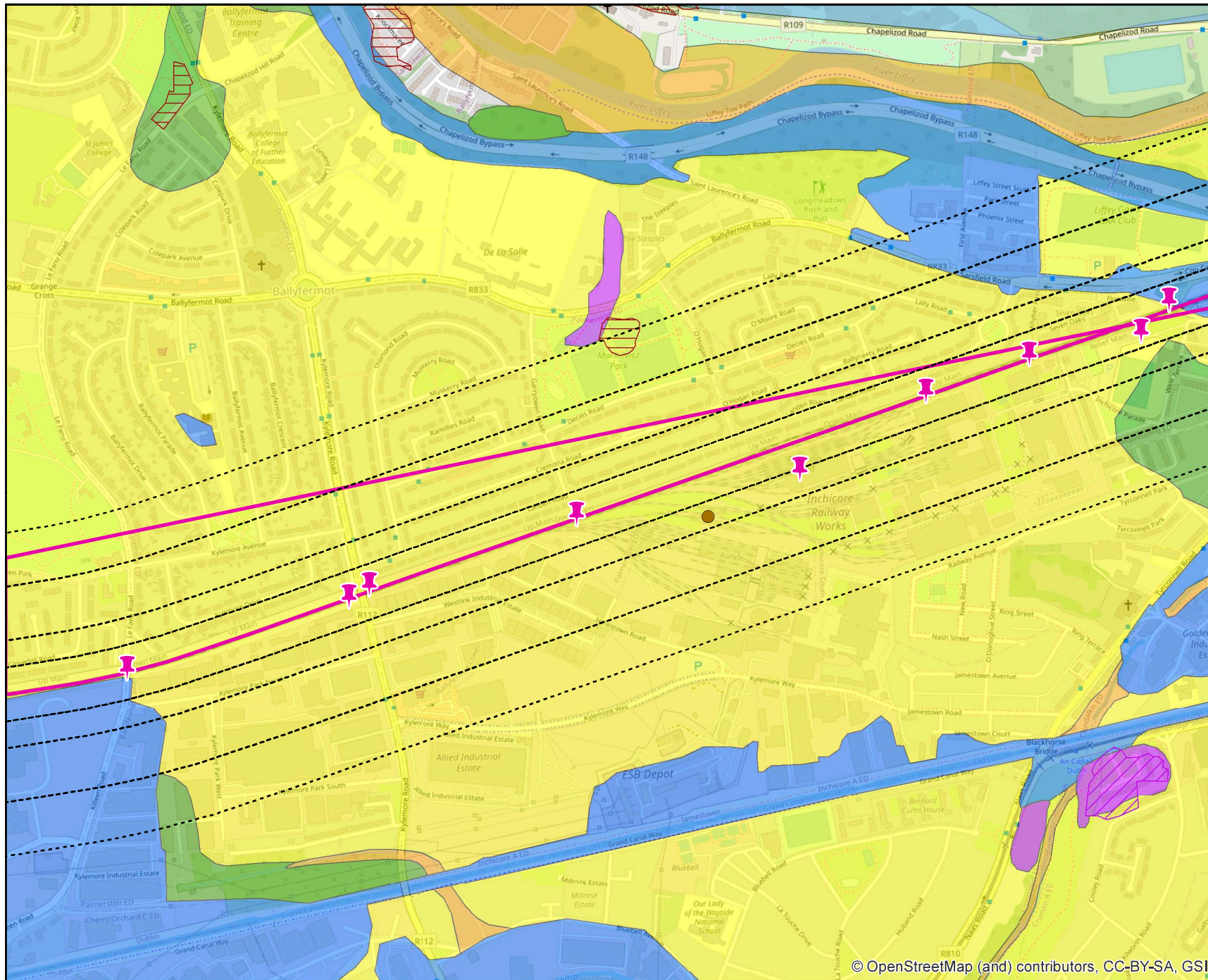
Project Code: 6199586 | Issuer: TTA/RPS | OMS Code:

Project Title: **DART + SOUTH WEST**


















Drawing Title: **Soils & Geology Constraints (Map 03 of 10)**

Drawing File Name: **DP-04-23-DWG-EV-TTA-9864** | Version: v01 | Status: S3

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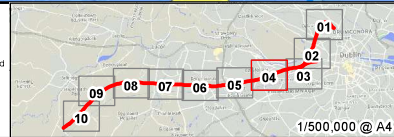
Legend

-  Engineering Elements
-  Buffers: 50m, 100m, 200m, 300m
-  Rail Network Centreline
-  Contaminated Land (2011 EIS)
-  Bedrock Aquifer Faults
- Pits and Quarries Areas**
-  Early to Mid-20thC: Pits
-  Mid-19thC: Pits
-  Early to Mid-20thC: Quarries
-  Mid-19thC: Quarries
-  Geological Heritage Area
- Quaternary Sediments (Subsoils)**
-  A, Alluvium
-  Ac, Alluvium (clayey)
-  GLs, Gravels derived from Limestones
-  Rck, Bedrock outcrop or subcrop
-  TLs, Till derived from limestones
-  Embankment
-  Urban



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Rev	Date	Dn	Chkd	Appd	Description
v01	12/11/2020	NOR	SK	AG	Description











Date: 01/03/2021 | Scale: 1:10,000 @ A4 | Drawn: NO'N | Checked: SK | Approved: AG

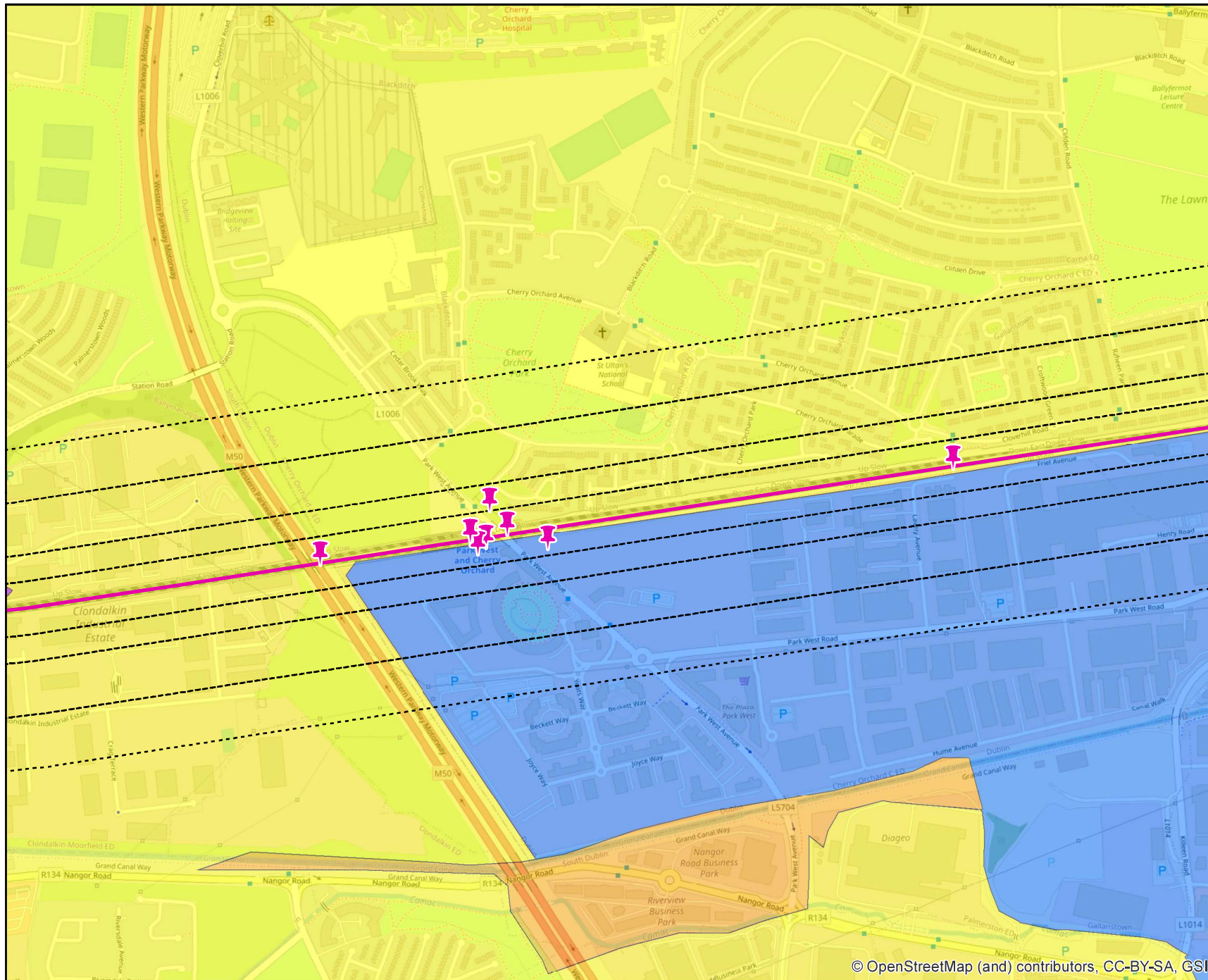
Project Code: 6199586 | Issuer: TTA/RPS | QMS Code: _____

Project Title: **DART + SOUTH WEST**


















Drawing Title: **Soils & Geology Constraints (Map 04 of 10)**

Drawing File Name: **DP-04-23-DWG-EV-TTA-9864** | Version: v01 | Status: S3

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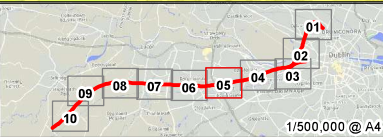
Legend

-  Engineering Elements
-  Buffers: 50m, 100m, 200m, 300m
-  Rail Network Centreline
-  Contaminated Land (2011 EIS)
-  Bedrock Aquifer Faults
- Pits and Quarries Areas**
-  Early to Mid-20thC: Pits
-  Mid-19thC: Pits
-  Early to Mid-20thC: Quarries
-  Mid-19thC: Quarries
-  Geological Heritage Area
- Quaternary Sediments (Subsoils)**
-  A, Alluvium
-  Ac, Alluvium (clayey)
-  GLs, Gravels derived from Limestones
-  Rck, Bedrock outcrop or subcrop
-  TLs, Till derived from limestones
-  Embankment
-  Urban



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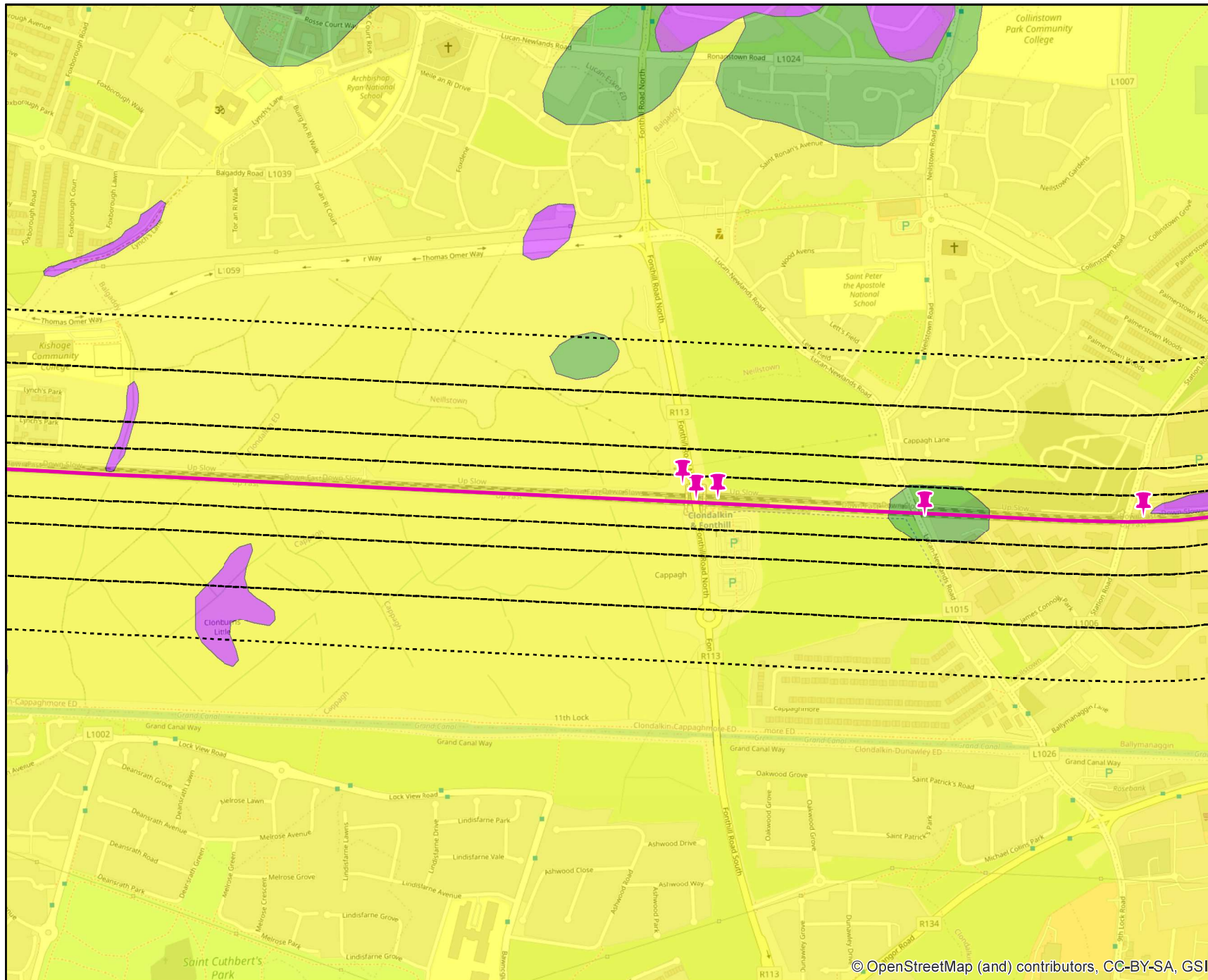


Rev	Date	Dn	Chkd	Appd	Description
v01	12/11/2020	NO/N	SK	AG	Description


















			
Date	01/03/2021	Scale	1:10,000 @ A4
Project Code	6199586	Issuer	TTA/RPS
Engineering Designer	NO/N	Checked	SK
Drawn	NO/N	Approved	AG

Project Title	DART + SOUTH WEST		
Drawing Title	Soils & Geology Constraints (Map 05 of 10)		
Drawing File Name	DP-04-23-DWG-EV-TTA-9864	Version	v01
Status	S3		

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



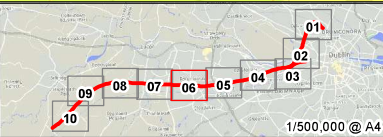
Legend

-  Engineering Elements
-  Buffers: 50m, 100m, 200m, 300m
-  Rail Network Centreline
-  Contaminated Land (2011 EIS)
-  Bedrock Aquifer Faults
- Pits and Quarries Areas**
-  Early to Mid-20thC: Pits
-  Mid-19thC: Pits
-  Early to Mid-20thC: Quarries
-  Mid-19thC: Quarries
-  Geological Heritage Area
- Quaternary Sediments (Subsoils)**
-  A, Alluvium
-  Ac, Alluvium (clayey)
-  GLs, Gravels derived from Limestones
-  Rck, Bedrock outcrop or subcrop
-  TLs, Till derived from limestones
-  Embankment
-  Urban



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Rev	Date	Dn	Chkd	Appd	Description
v01	12/11/2020	NO/N	SK	AG	Description

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (TYPSA), supported by **rps**

Date: 01/03/2021 | Scale: 1:10,000 @ A4 | Drawn: NO'N | Checked: SK | Approved: AG

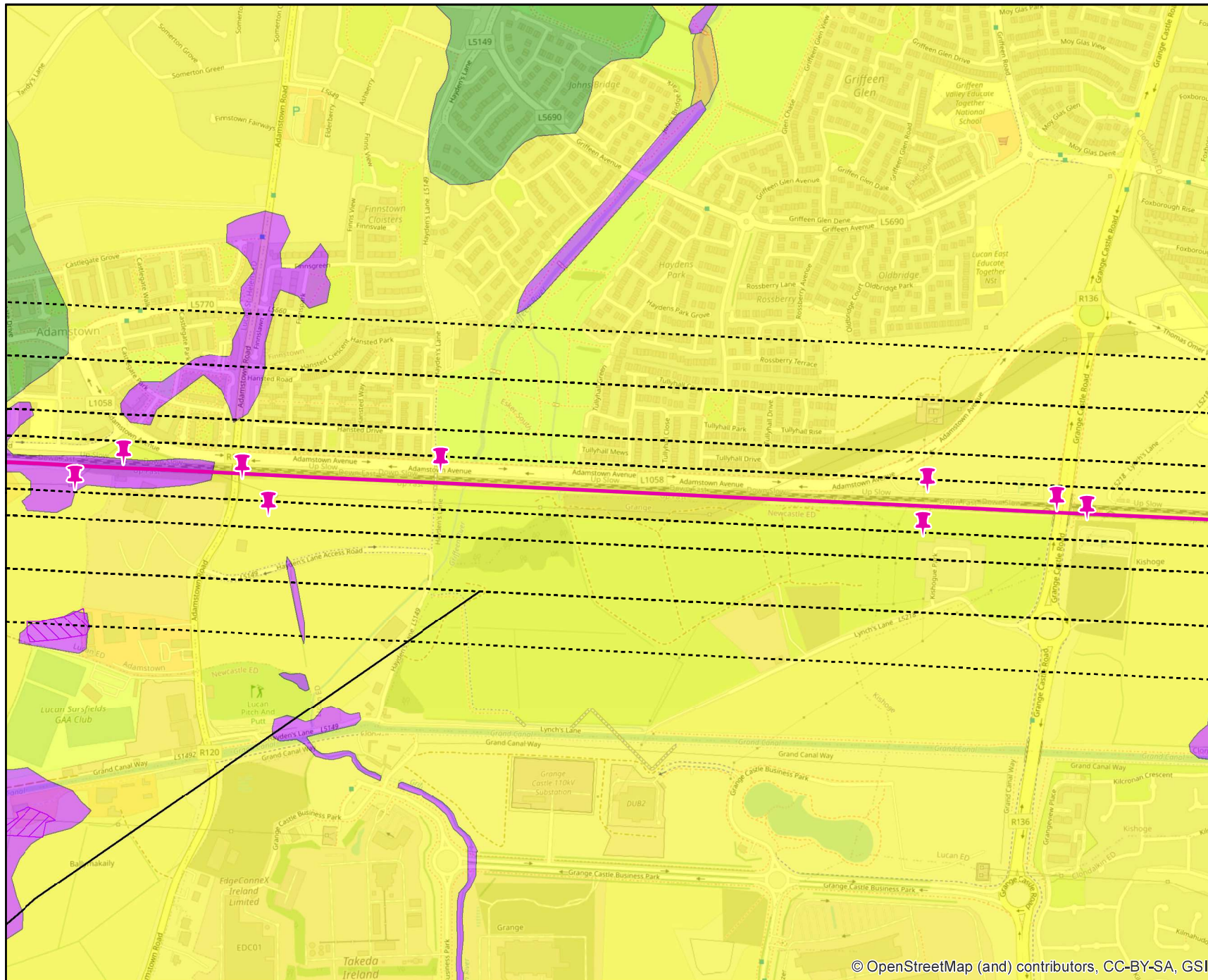
Project Code: 6199586 | Issuer: TTA/RPS | QMS Code:

Project Title: **DART + SOUTH WEST**


















Drawing Title: **Soils & Geology Constraints (Map 06 of 10)**

Drawing File Name: **DP-04-23-DWG-EV-TTA-9864** | Version: v01 | Status: S3

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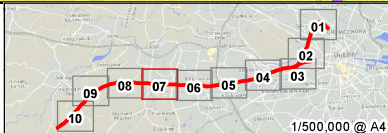
Legend

-  Engineering Elements
-  Buffers: 50m, 100m, 200m, 300m
-  Rail Network Centreline
-  Contaminated Land (2011 EIS)
-  Bedrock Aquifer Faults
- Pits and Quarries Areas**
-  Early to Mid-20thC: Pits
-  Mid-19thC: Pits
-  Early to Mid-20thC: Quarries
-  Mid-19thC: Quarries
-  Geological Heritage Area
- Quaternary Sediments (Subsoils)**
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Rev	Date	Drn	Chkd	Appd	Description
v01	12/11/2020	NO'N	SK	AG	Description



Date: 01/03/2021
Project Code: 6199586

Client: Iarnród Éireann Irish Rail

Scale: 1:10,000 @ A4

Issue: TTA/RPS

Engineering Designer: ATKINS

Supported by: TYPASA, RPS

Drawn: NO'N, Checked: SK, Approved: AG

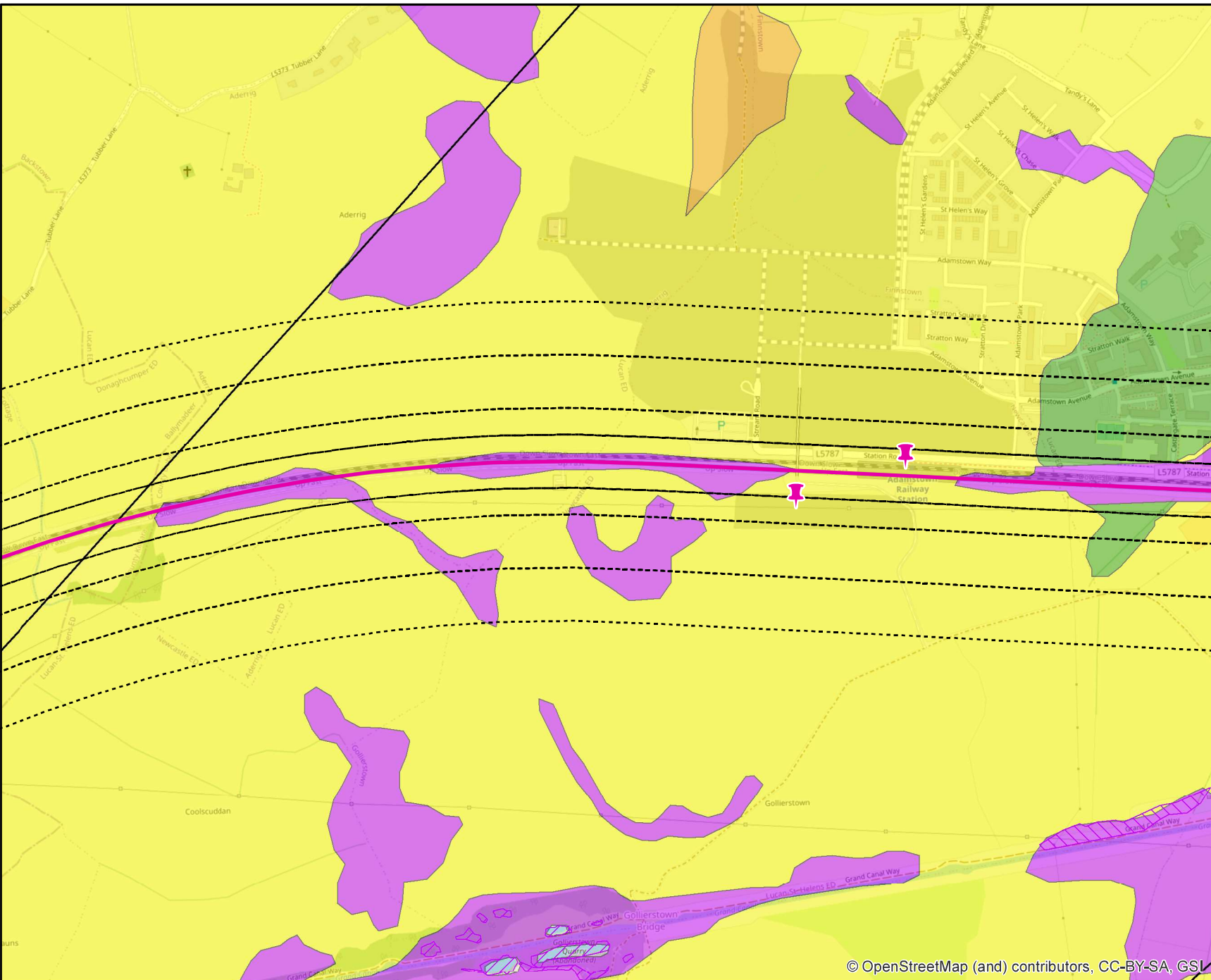
Project Title: **DART + SOUTH WEST**

Drawing Title: **Soils & Geology Constraints (Map 07 of 10)**

Drawing File Name: **DP-04-23-DWG-EV-TTA-9864**

Version: v01 | Status: S3

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- ### Legend
- Engineering Elements
 - Buffers: 50m, 100m, 200m, 300m
 - Rail Network Centreline
 - Contaminated Land (2011 EIS)
 - Bedrock Aquifer Faults
 - Pits and Quarries Areas**
 - Early to Mid-20thC: Pits
 - Mid-19thC: Pits
 - Early to Mid-20thC: Quarries
 - Mid-19thC: Quarries
 - Geological Heritage Area**
 - Geological Heritage Area
 - Quaternary Sediments (Subsoils)**
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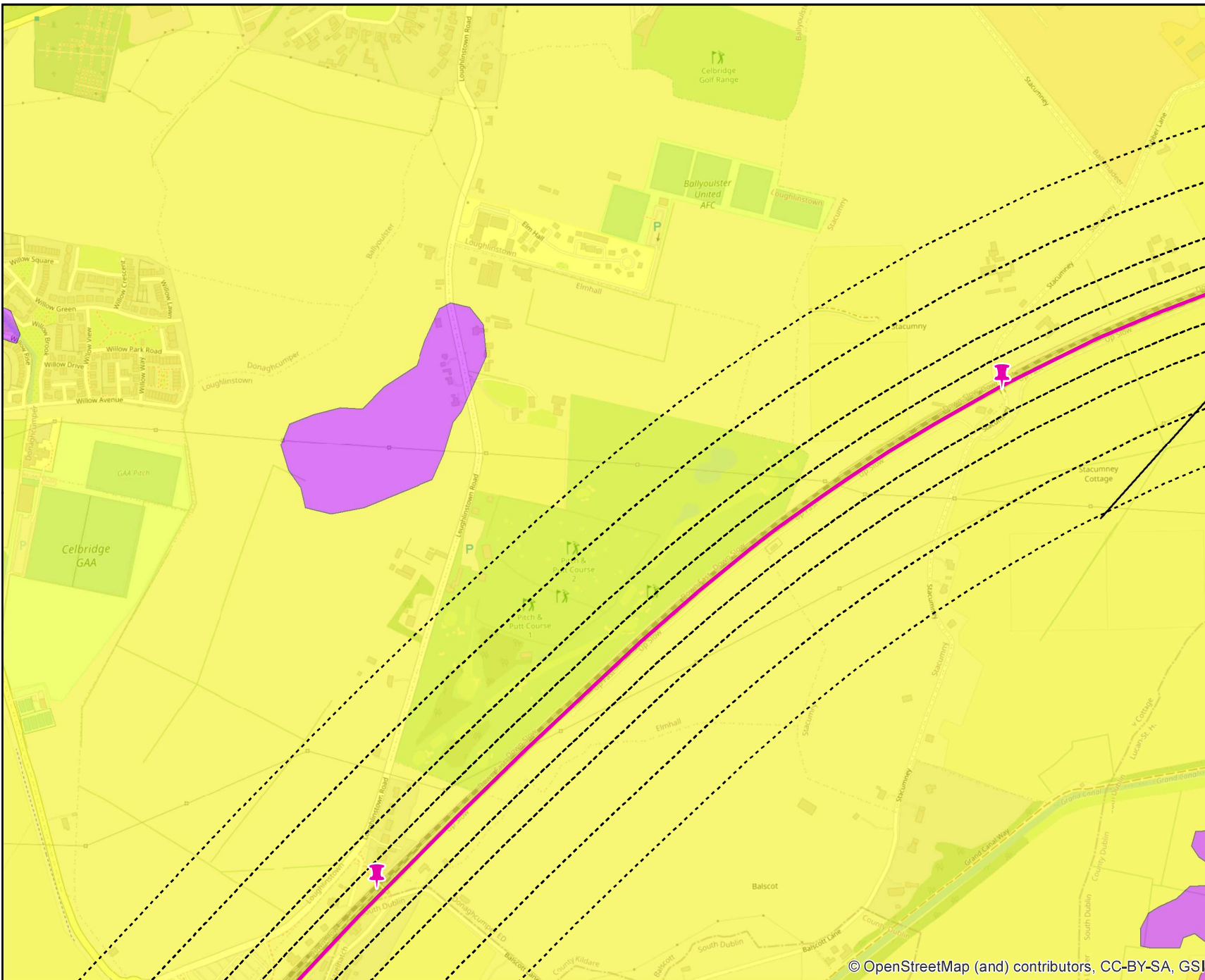


Rev	Date	Dn	Chkd	App'd	Description
v01	12/11/2020	NO/N	SK	AG	Description

Date	01/03/2021	Scale	1:10,000 @ A4	Drawn	NO'N
Project Code	6199586	Issuer	TTA/RPS	Checked	SK
				Approved	AG

Project Title	DART + SOUTH WEST		
Drawing Title	Soils & Geology Constraints (Map 08 of 10)		
Drawing File Name	DP-04-23-DWG-EV-TTA-9864	Version	v01
Status	S3		

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- ### Legend
- Engineering Elements
 - Buffers: 50m, 100m, 200m, 300m
 - Rail Network Centreline
 - Contaminated Land (2011 EIS)
 - Bedrock Aquifer Faults
 - Pits and Quarries Areas**
 - Early to Mid-20thC: Pits
 - Mid-19thC: Pits
 - Early to Mid-20thC: Quarries
 - Mid-19thC: Quarries
 - Geological Heritage Area
 - Quaternary Sediments (Subsoils)**
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 - Ac, Alluvium (clayey)
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 - Rck, Bedrock outcrop or subcrop
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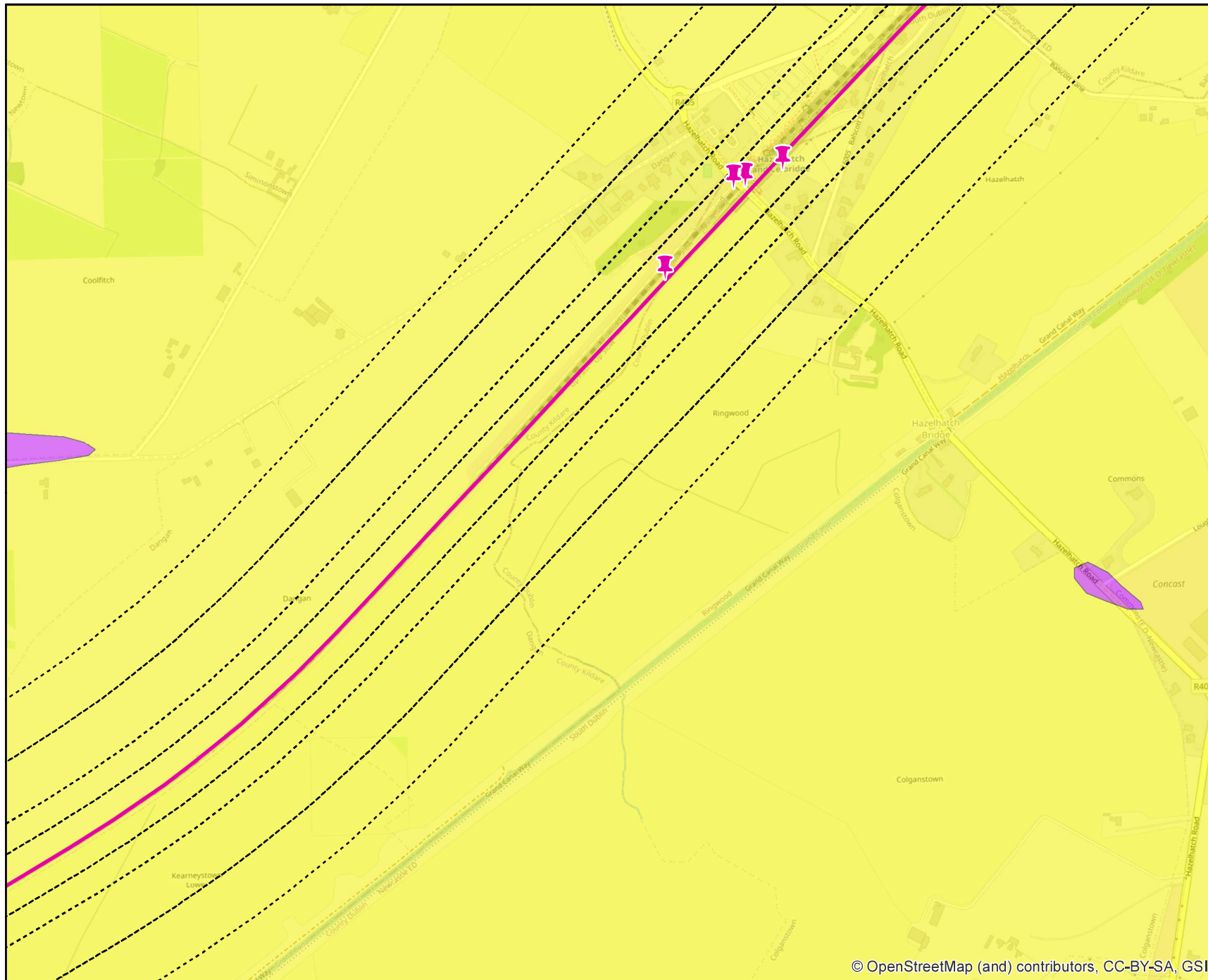


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





Date	Scale	Drawn	Checked	Approved
01/03/2021	1:10,000 @ A4	NO'N	SK	AG
Project Code	Issuer	QMS Code		
5199586	TTA/RPS			

Project Title	DART + SOUTH WEST		
Drawing Title	Soils & Geology Constraints (Map 09 of 10)		
Drawing File Name	DP-04-23-DWG-EV-TTA-9864	Version	v01
Status	S3		

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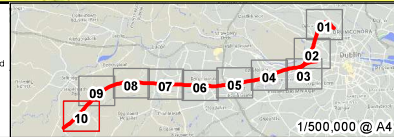
Legend

-  Engineering Elements
-  Buffers: 50m, 100m, 200m, 300m
-  Rail Network Centreline
-  Contaminated Land (2011 EIS)
-  Bedrock Aquifer Faults
- Pits and Quarries Areas**
-  Early to Mid-20thC: Pits
-  Mid-19thC: Pits
-  Early to Mid-20thC: Quarries
-  Mid-19thC: Quarries
-  Geological Heritage Area
- Quaternary Sediments (Subsoils)**
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-  Ac, Alluvium (clayey)
-  GLs, Gravels derived from Limestones
-  Rck, Bedrock outcrop or subcrop
-  TLs, Till derived from limestones
-  Embankment
-  Urban



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Rev	Date	Dn	Chkd	App'd	Description
v01	12/11/2020	NO'N	SK	AG	Description

Client Iarnród Éireann Irish Rail		Engineering Designer ATKINS <small>TYPSA</small> Supported by: rps	
Date	01/03/2021	Scale	1:10,000 @ A4
Project Code	5199586	Issuer	TTA/RPS
Drawn	NO'N	Checked	SK
Approved	AG	GMS Code	

Project Title	DART + SOUTH WEST		
Drawing Title	Soils & Geology Constraints (Map 10 of 10)		
Drawing File Name	DP-04-23-DWG-EV-TTA-9864	Version	v01
Status	S3		

DO NOT SCALE USE FIGURED DIMENSIONS ONLY