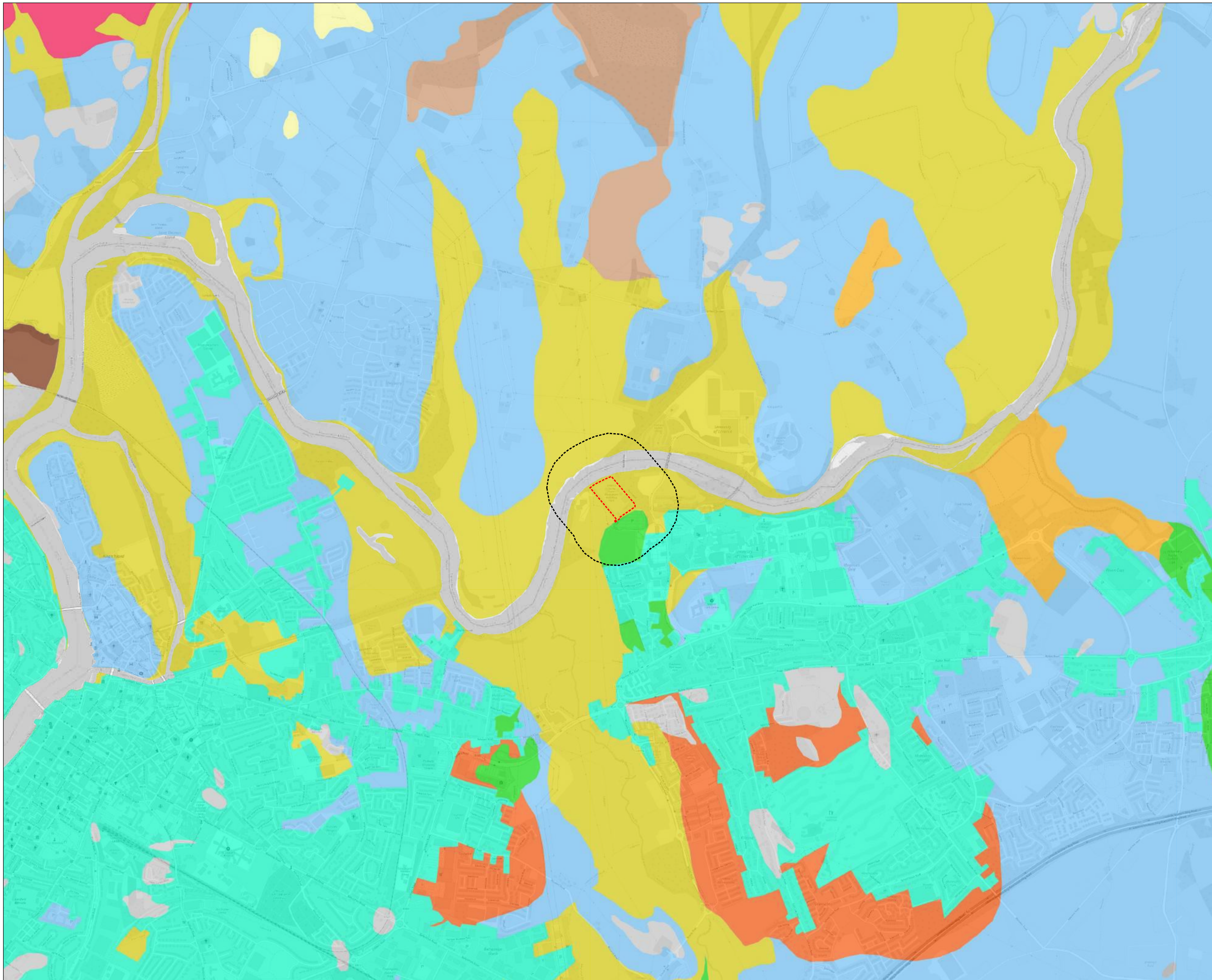


Appendix 13A: Land and Soils
Mapping



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LEGEND

Site Layout

- Site Boundary
- Study Area [250m]

Quaternary Geology Units

- Urban Urban
- Mesc Estuarine silts and clays
- GLs Gravels derived from Limestones
- Tls Till derived from limestones
- TBI Till derived from basic igneous rocks
- Cut Cut over raised peat
- Rck Bedrock outcrop or subcrop

| Rev. | Suit. | Description | Drawn | Chkd | Date |
|------|-------|-------------|-------|------|------|
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Client:

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EIREANN - IRISH
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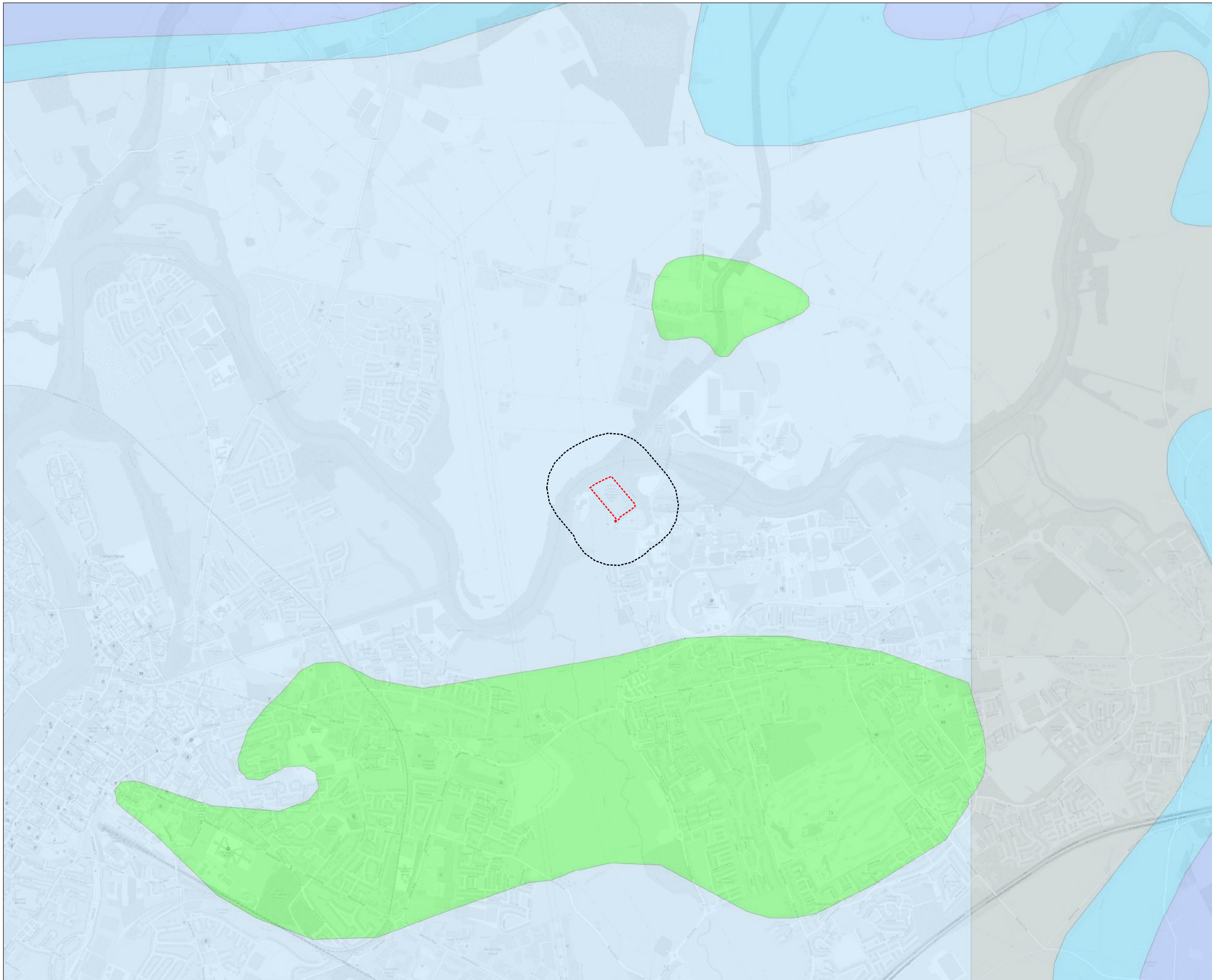
Tel: +353-1-4851400
 Email: info@jbbarry.ie
 Website: www.jbbarry.ie

Project: CASTLETROY WASTEWATER TREATMENT PLANT

Drawing Title: EIAR - LAND & SOILS
 FIGURE 13-1 QUATERNARY GEOLOGY

Drawn by: DW Date: MAY 2022
 Checked by: MC Date: MAY 2022
 Approved by: DOH Date: MAY 2022
 Internal Project Ref: 20701
 Scale: 1:10,000 @ A1

Stage: PLANNING
 Drawing No.: 20701-JBB-00-XX-DR-Z-00101
 Revision: P01
 Suitability Code: S3



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LEGEND

- Site Layout**
 Site Boundary
 Study Area [250m]
- Bedrock Geology Units**
 VIS Visean Limestones (undifferentiated)
 V Volcaniclastic Rocks
 RK Rathkeale Formation
 LR Lough Gur Formation
 WA Waulsortian Limestones

| Rev. | Suit. | Description | Drawn | Chkd | Date |
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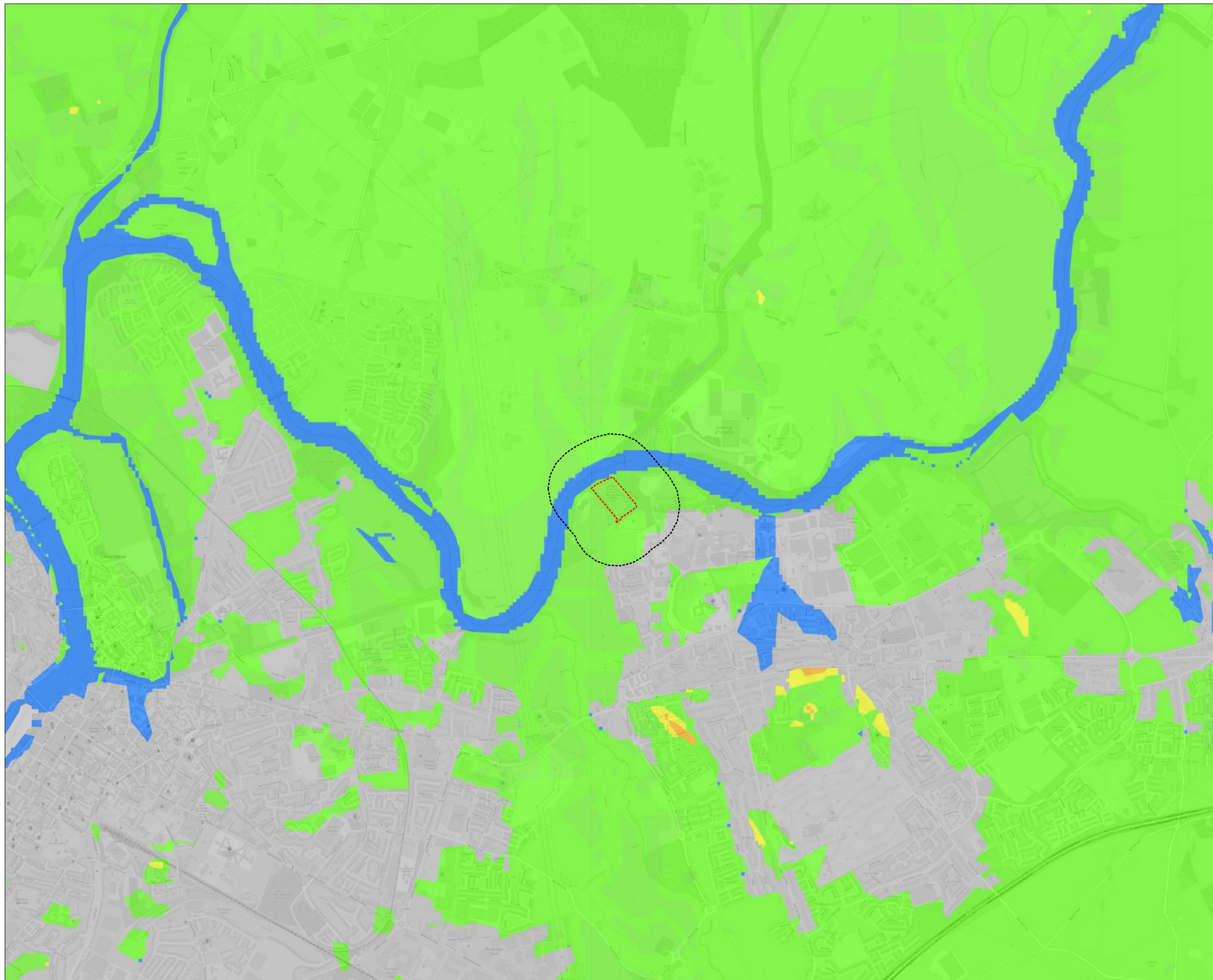
Project
 CASTLETROY WASTEWATER
 TREATMENT PLANT

Drawing Title
 EIAR - LAND & SOILS
 FIGURE 13-2 BEDROCK GEOLOGY

Drawn by: DW Date: MAY 2022
 Checked by: MC Date: MAY 2022
 Approved by: DOH Date: MAY 2022
 Internal Project Ref: 20701
 Scale: 1:10,000 @ A1

Stage: PLANNING

Drawing No.: 20701-JBB-00-XX-DR-Z-00102
 Revision: P01
 Suitability Code: S3



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LEGEND

- Site Layout**
 Site Boundary
 Study Area [250m]
- Landslides Susceptibility Classification**
- Unclassified
 - Low
 - Low (inferred)
 - Moderately Low
 - Moderately Low (inferred)
 - Moderately High
 - Moderately High (inferred)
 - High
 - High (inferred)
 - Made
 - Water

| Rev. | Suit. | Description | Drawn | Chkd | Date |
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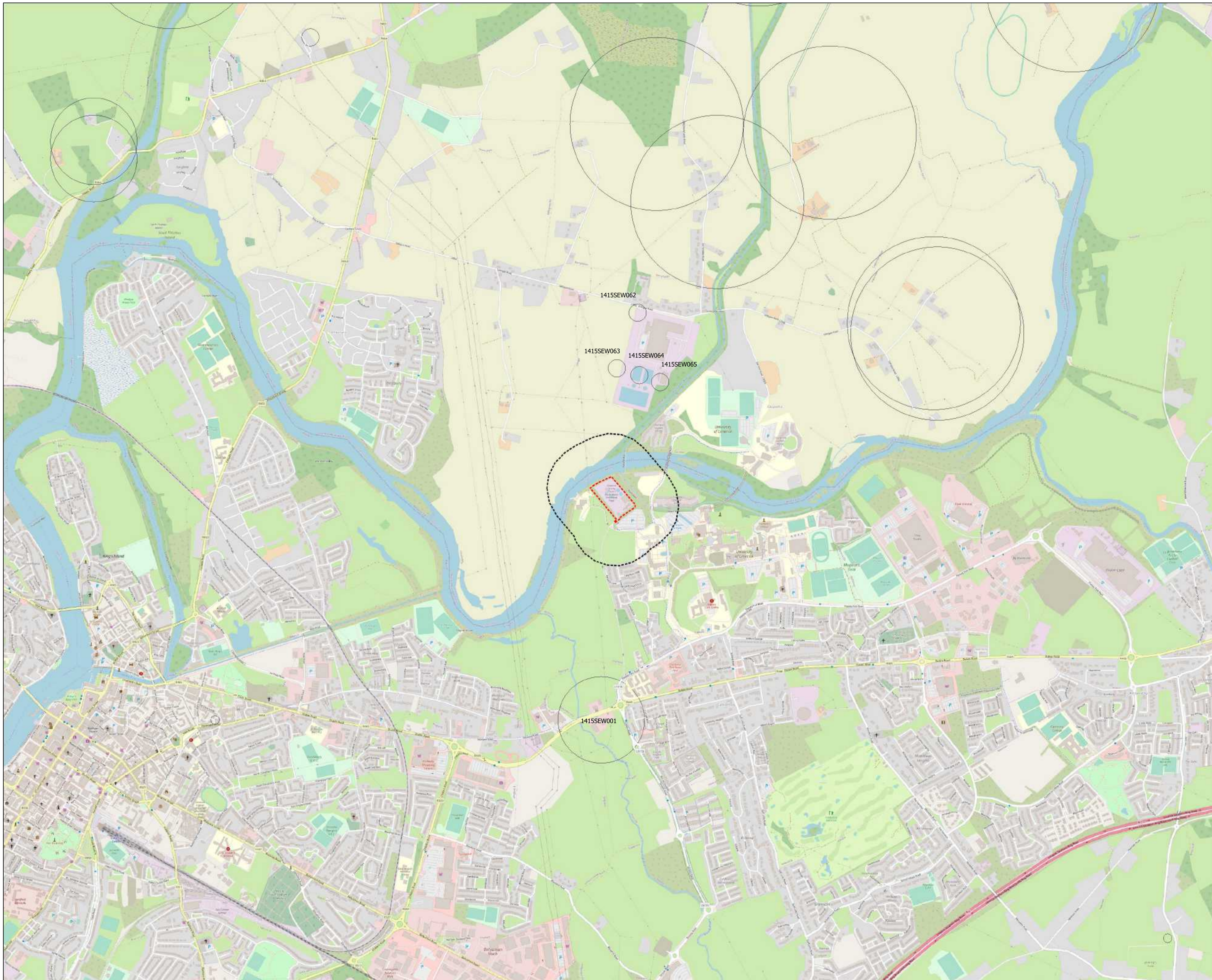
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Project
**CASTLETROY WASTEWATER
 TREATMENT PLANT**

Drawing Title
**EIAR - LAND & SOILS
 FIGURE 13-3 LANDSLIDE SUSCEPTIBILITY**

Drawn by: DW Date: MAY 2022
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LEGEND

- Site Layout
 Site Boundary
 Study Area [250m]
 Groundwater Wells and Springs

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|------|-------|-------------|-------|------|------|
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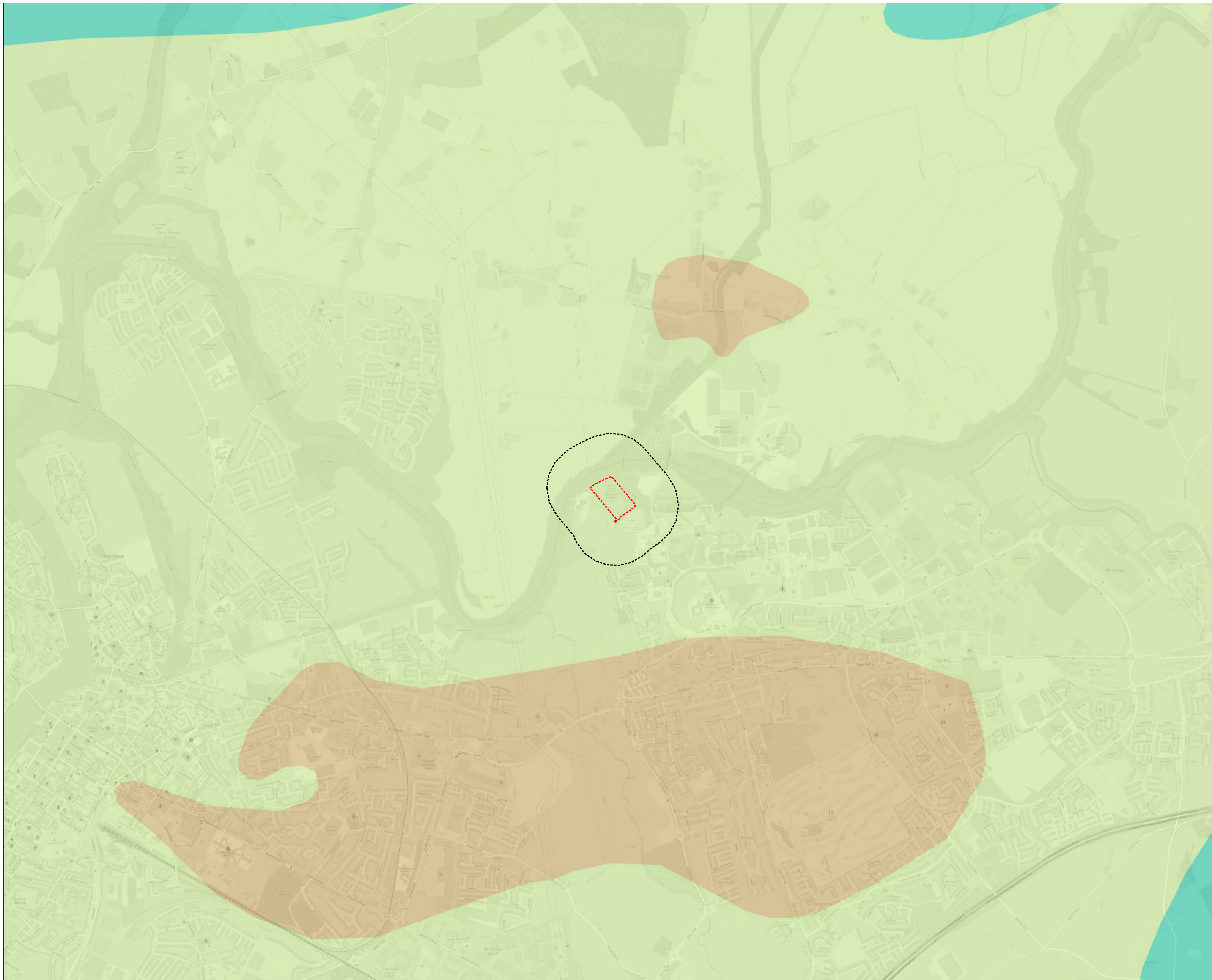
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Project
 CASTLETROY WASTEWATER
 TREATMENT PLANT

Drawing Title
 EIAR - LAND & SOILS
 FIGURE 13-4 GROUNDWATER WELLS & SPRINGS

Drawn by: DW Date: MAY 2022
 Checked by: MC Date: MAY 2022
 Approved by: DOH Date: MAY 2022
 Internal Project Ref: 20701
 Scale: 1:10,000 @ A1

Stage: PLANNING
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 Revision: P01
 Suitability Code: S3



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LEGEND

Site Layout

- Site Boundary
- Study Area [250m]

Bedrock Aquifer Classifications

- LI Locally Important Aquifer - Bedrock which is Generally Moderately Productive
- Lm Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
- Rkd Regionally Important Aquifer - Karstified (diffuse)

| Rev. | Suit. | Description | Drawn | Chkd | Date |
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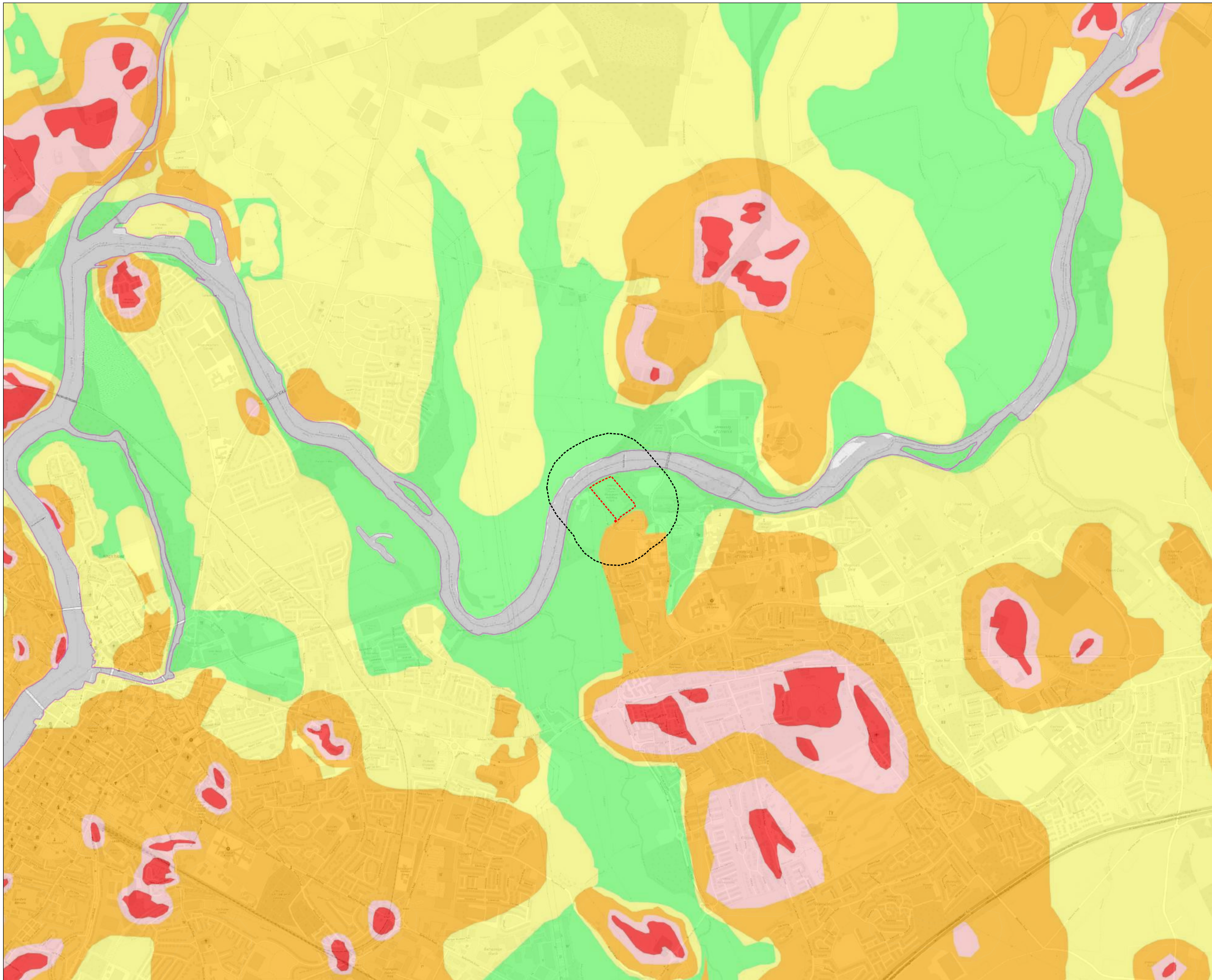
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Project
 CASTLETROY WASTEWATER
 TREATMENT PLANT

Drawing Title
 EIAR - LAND & SOILS
 FIGURE 13-5 GROUNDWATER AQUIFERS

| | | |
|--|------------------|-------------------------|
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| Checked by: MC | Date: MAY 2022 | |
| Approved by: DOH | Date: MAY 2022 | |
| Internal Project Ref: 20701 | | |
| Scale: 1:10,000 @ A1 | | |
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LEGEND

- Site Layout**
 Site Boundary
 Study Area [250m]
- National Groundwater Vulnerability**
 Rock at or near Surface or Karst
 Extreme
 High
 Moderate
 Low
 Water

| Rev. | Suit. | Description | Drawn | Chkd | Date |
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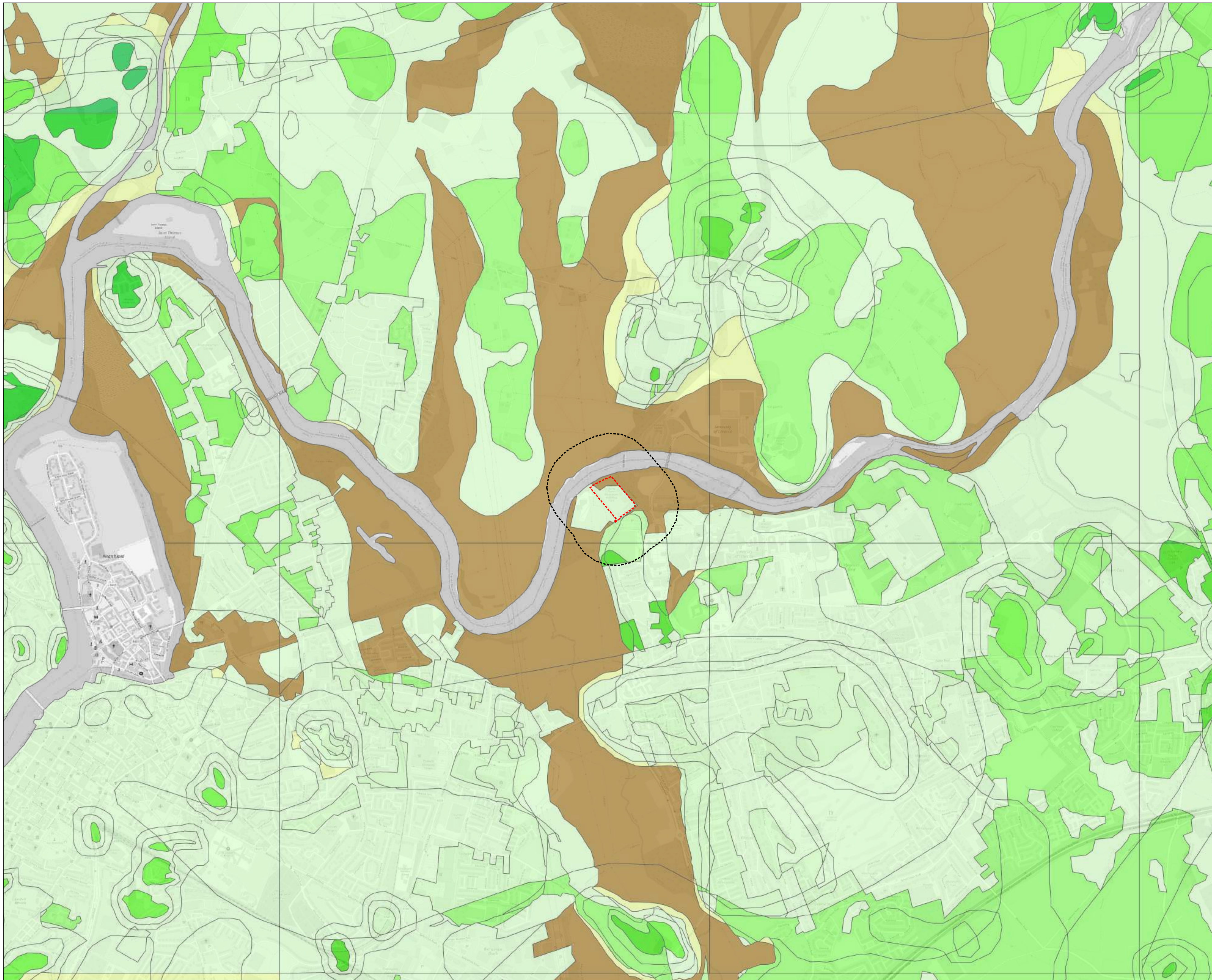
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Project
 CASTLETROY WASTEWATER
 TREATMENT PLANT

Drawing Title
 EIAR - LAND & SOILS
 FIGURE 13-6 GROUNDWATER VULNERABILITY

Drawn by: DW Date: MAY 2022
 Checked by: MC Date: MAY 2022
 Approved by: DOH Date: MAY 2022
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 Scale: 1:10,000 @ A1
 Stage: PLANNING

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LEGEND

Site Layout

- Site Boundary
- Study Area [250m]

Recharge Rate (mm/year)

- 1-50
- 51-100
- 101-150
- 151-200
- 201-250
- 251-300
- 301-350
- 351-400
- 401-450
- 451-500
- 501-550
- 551-600
- 601-700
- 701-800
- 801-900
- 901-1000
- 1001-1400
- 1401-2000
- >2000

| Rev. | Suit. | Description | Drawn | Chkd | Date |
|------|-------|-------------|-------|------|------|
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Project: **CASTLETROY WASTEWATER TREATMENT PLANT**

Drawing Title: **EIAR - LAND & SOILS
 FIGURE 13-7 GROUNDWATER RECHARGE**

Drawn by: DW Date: MAY 2022
 Checked by: MC Date: MAY 2022
 Approved by: DOH Date: MAY 2022
 Internal Project Ref: 20701

Scale: 1:10,000 @ A1
 Stage: PLANNING
 Drawing No.: 20701-JBB-00-XX-DR-Z-00107
 Revision: P01
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