

Adran yr Economi a'r Seilwaith
Department for Economy and Infrastructure



Llywodraeth Cymru
Welsh Government

The M4 Motorway (Junction 23 (East of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and The M48 Motorway (Junction 23 (East of Magor) Connecting Road) Scheme 201-

The M4 Motorway (Junction 23 (East of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and The M48 Motorway (Junction 23 (East of Magor) Connecting Road) (Amendment) Scheme 201-

The London to Fishguard Trunk Road (East of Magor to Castleton) Order 201-

The M4 Motorway (West of Magor to East of Castleton) and the A48(M) Motorway (West of Castleton to St Mellons)(Variation of Various Schemes) Scheme 201-

The M4 Motorway (Junction 23 (East of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and the M48 Motorway (Junction 23 (East of Magor) Connecting Road) and The London to Fishguard Trunk Road (east of Magor to Castleton) (Side Roads) Order 201-

The Welsh Ministers (The M4 Motorway (Junction 23 (East of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and the M48 Motorway (Junction 23 (East of Magor) Connecting Road) and the London to Fishguard Trunk Road (East of Magor to Castleton)) Compulsory Purchase Order 201-

The M4 Motorway (Junction 23 (East Of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and The M48 Motorway (Junction 23 (East Of Magor) Connecting Road) (Supplementary) Scheme 201-

The Welsh Ministers (The M4 Motorway (Junction 23 (East Of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and The M48 Motorway (Junction 23 (East Of Magor) Connecting Road) and The London to Fishguard Trunk Road (East of Magor to Castleton)) Supplementary Compulsory Purchase Order 201-

Appendix to Proof of Evidence

Andy Clifton BSc (Hons) MSc CEng FGS CEnv CSci

Welsh Government, Land Contamination

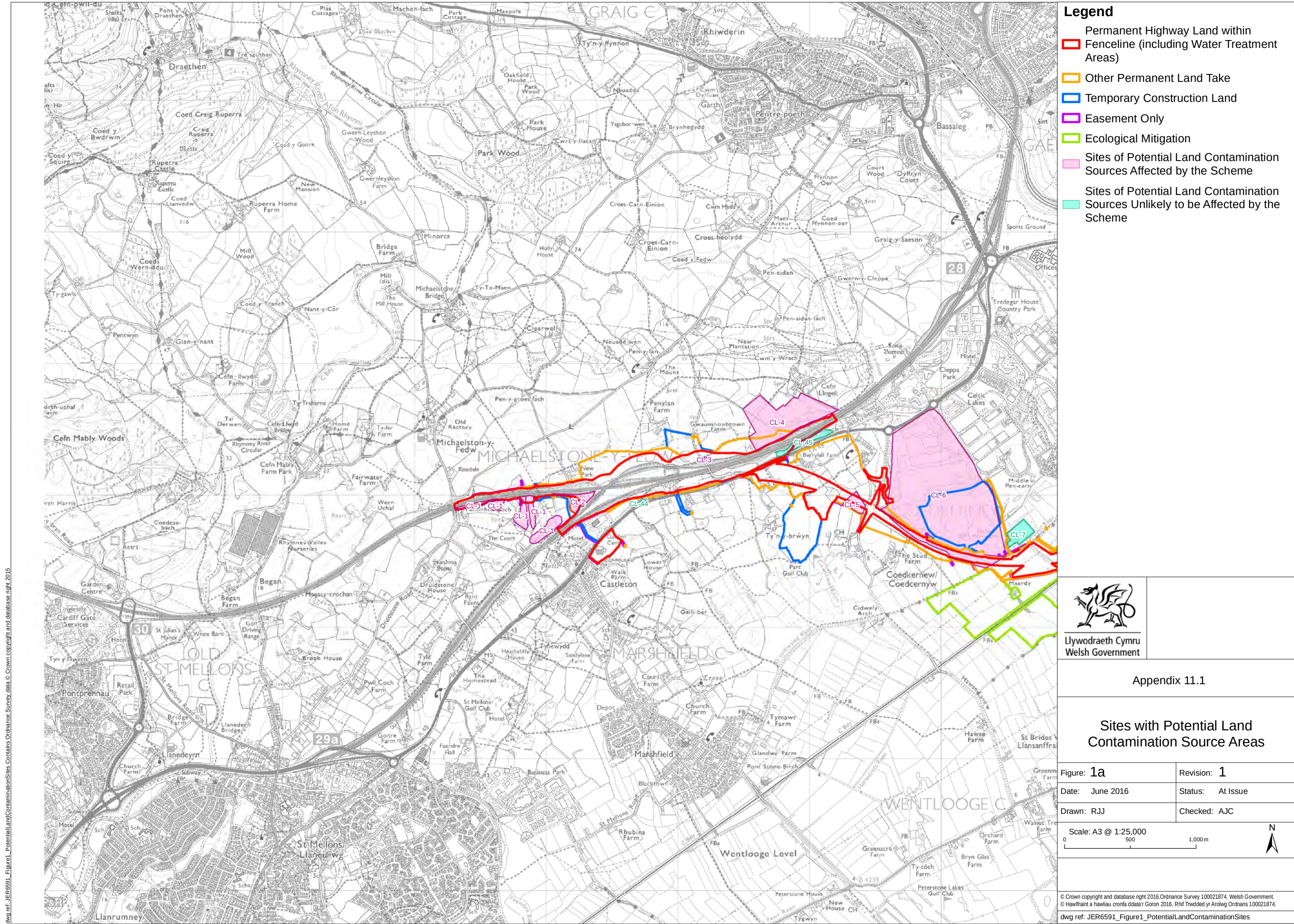
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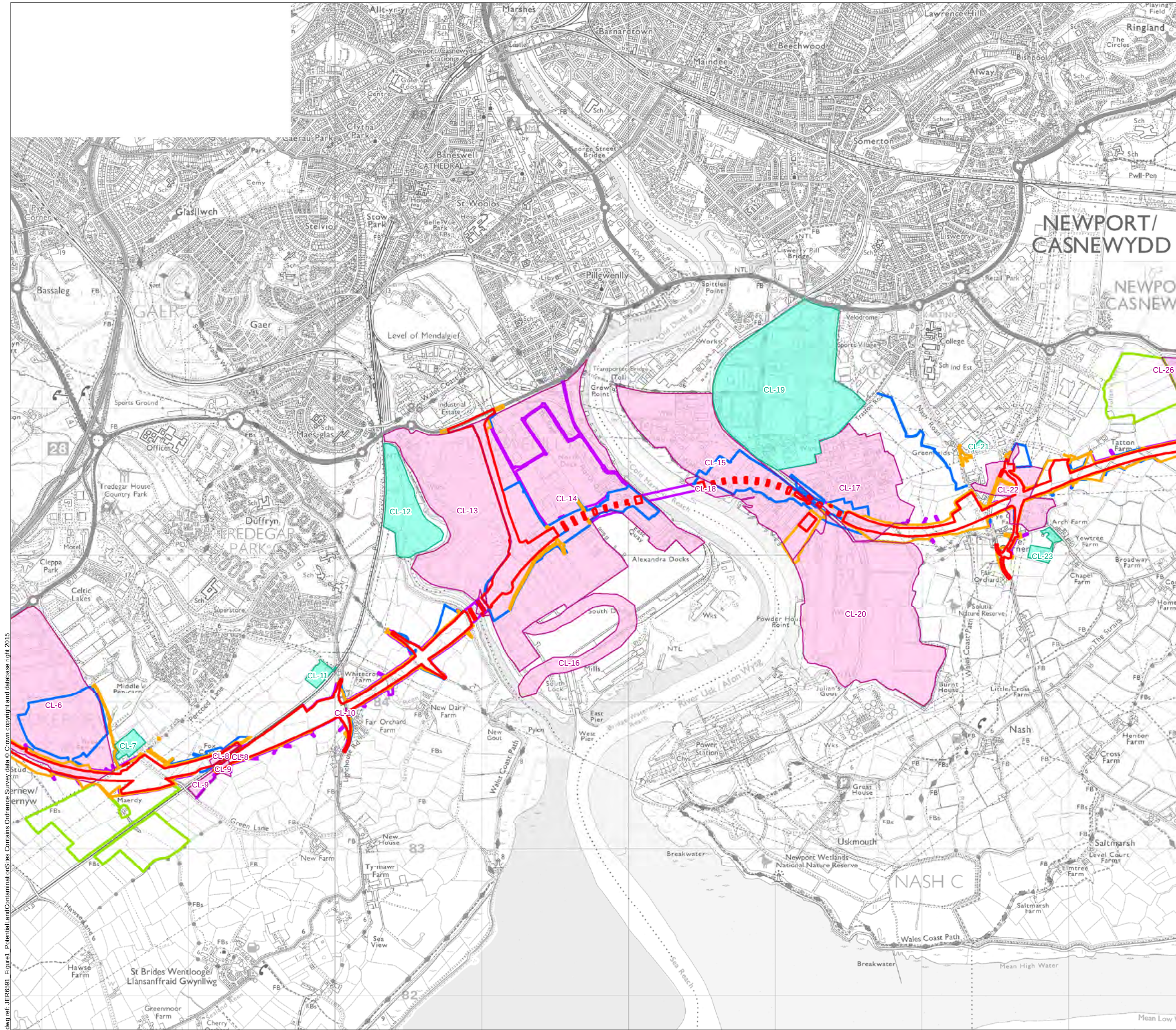
Appendices and Figures

Figures 1a-d	Sites with Potential Land Contamination Source Areas
Figure 2	Conceptual Site Model for CL-26 (Lagoons)
Figures 3a-p	Ground Investigation Locations
Figures 3a-d	Outline Remediation Strategy
Appendix 1	Summary Risk Matrix of Potentially Contaminated Sites
Appendix 2	Email dated 3/11/16 from NRW

Figures

dwg ref: JER6591_Figure1_PotentialLandContaminationSites Contains Ordnance Survey data © Crown copyright and database right 2015





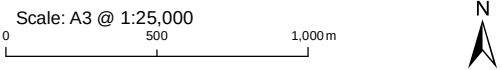
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- Permanent Highway Land within
 - Fenceline (including Water Treatment Areas)
 - Other Permanent Land Take
 - Temporary Construction Land
 - Easement Only
 - Ecological Mitigation
 - Sites of Potential Land Contamination Sources Affected by the Scheme
 - Sites of Potential Land Contamination Sources Unlikely to be Affected by the Scheme

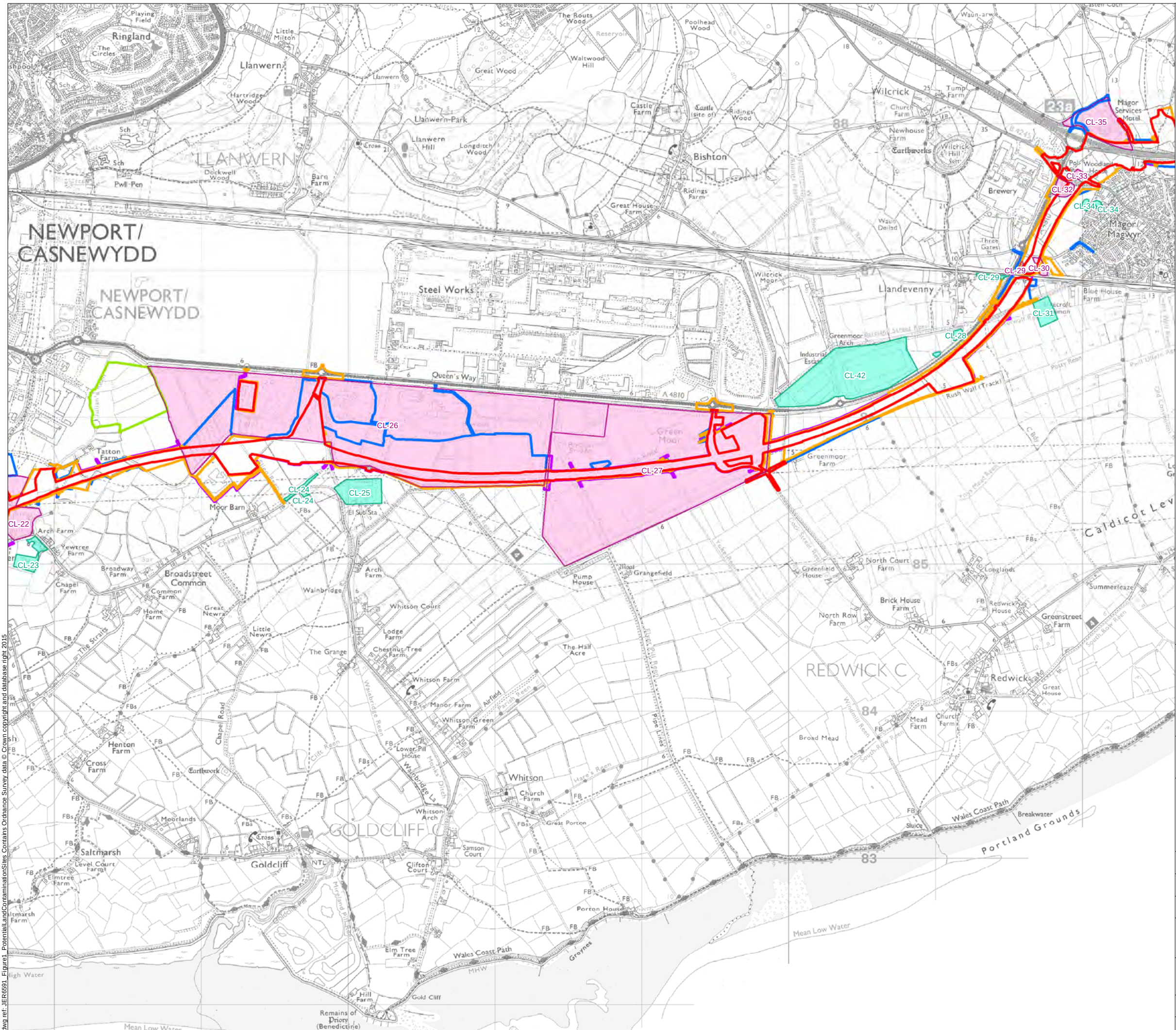


Appendix 11.1

Sites with Potential Land Contamination Source Areas

Figure: 1b	Revision: 1
Date: June 2016	Status: At Issue
Drawn: RJJ	Checked: AJC





- Legend**
- Permanent Highway Land within Fence line (including Water Treatment Areas)
 - Other Permanent Land Take
 - Temporary Construction Land
 - Easement Only
 - Ecological Mitigation
 - Sites of Potential Land Contamination Sources Affected by the Scheme
 - Sites of Potential Land Contamination Sources Unlikely to be Affected by the Scheme

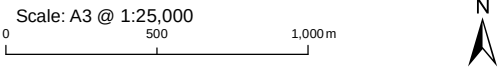


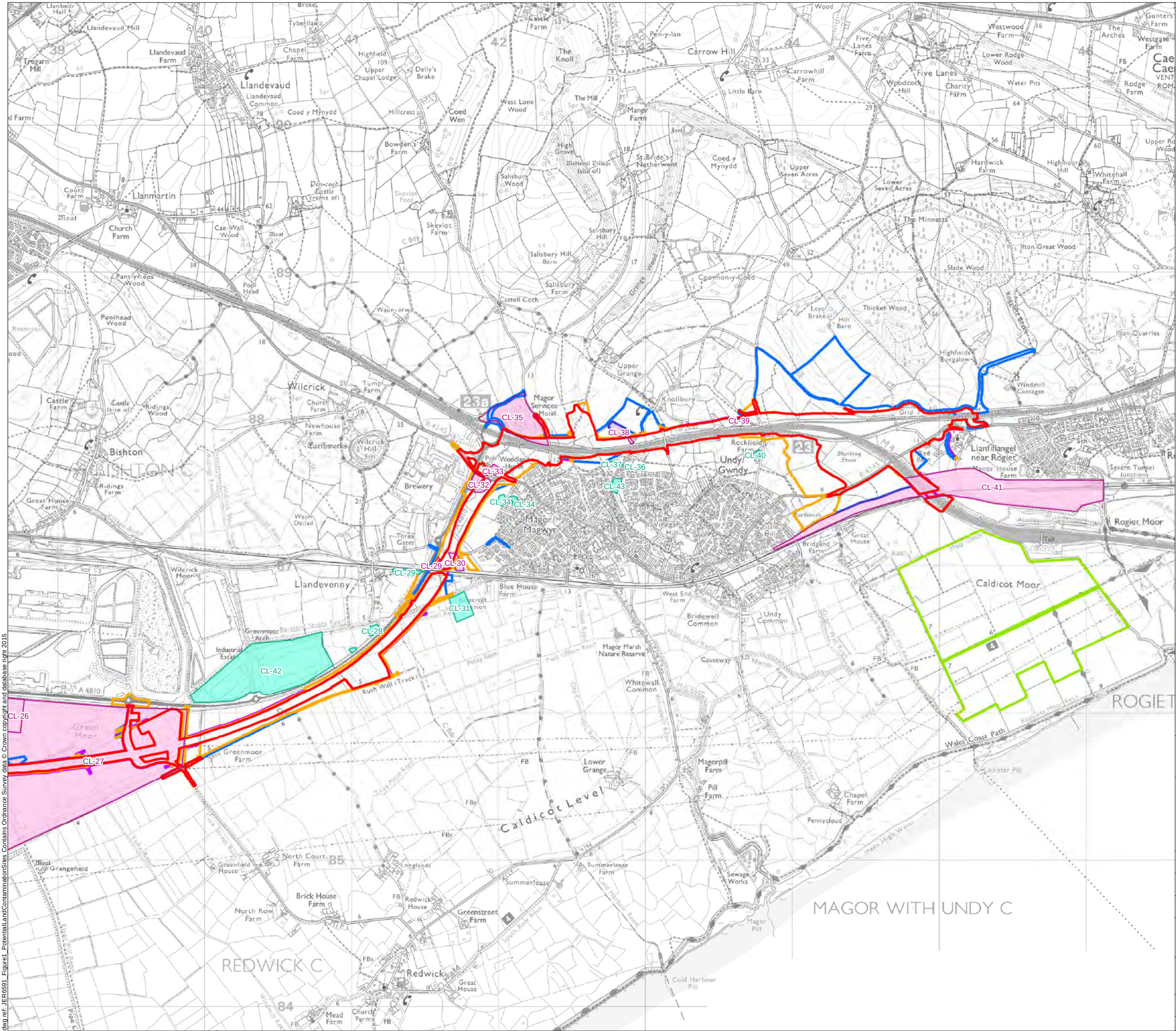
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Welsh Government

Appendix 11.1

Sites with Potential Land Contamination Source Areas

Figure: 1C	Revision: 1
Date: June 2016	Status: At Issue
Drawn: RJJ	Checked: AJC





- Legend**
- Permanent Highway Land within Fence line (including Water Treatment Areas)
 - Other Permanent Land Take
 - Temporary Construction Land
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 - Ecological Mitigation
 - Sites of Potential Land Contamination Sources Affected by the Scheme
 - Sites of Potential Land Contamination Sources Unlikely to be Affected by the Scheme



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Appendix 11.1

Sites with Potential Land Contamination Source Areas

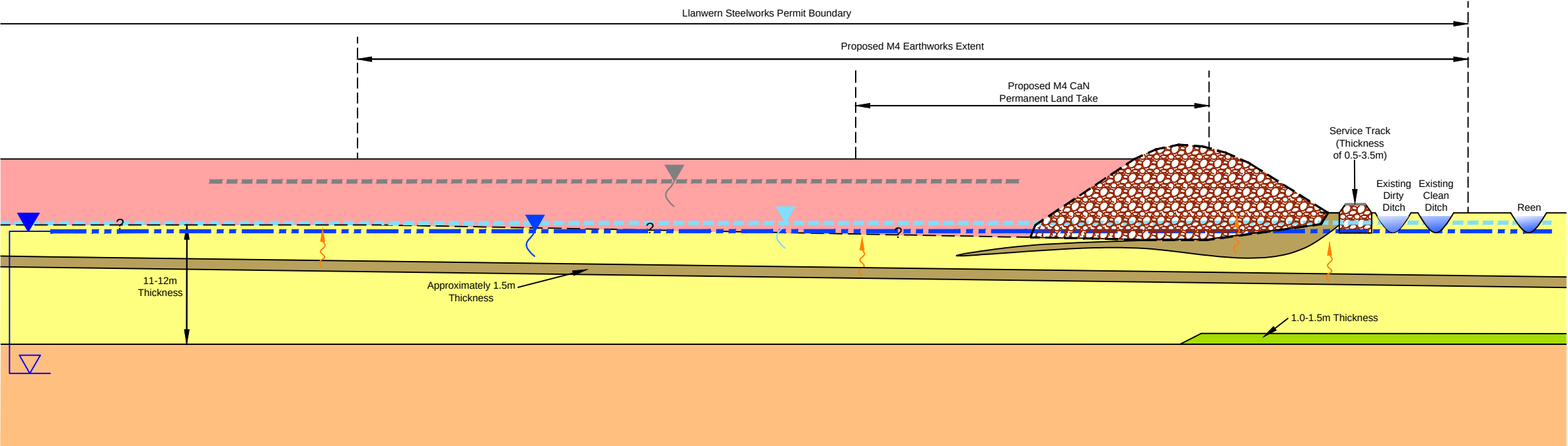
Figure: 1d Revision: 1
Date: June 2016 Status: At Issue
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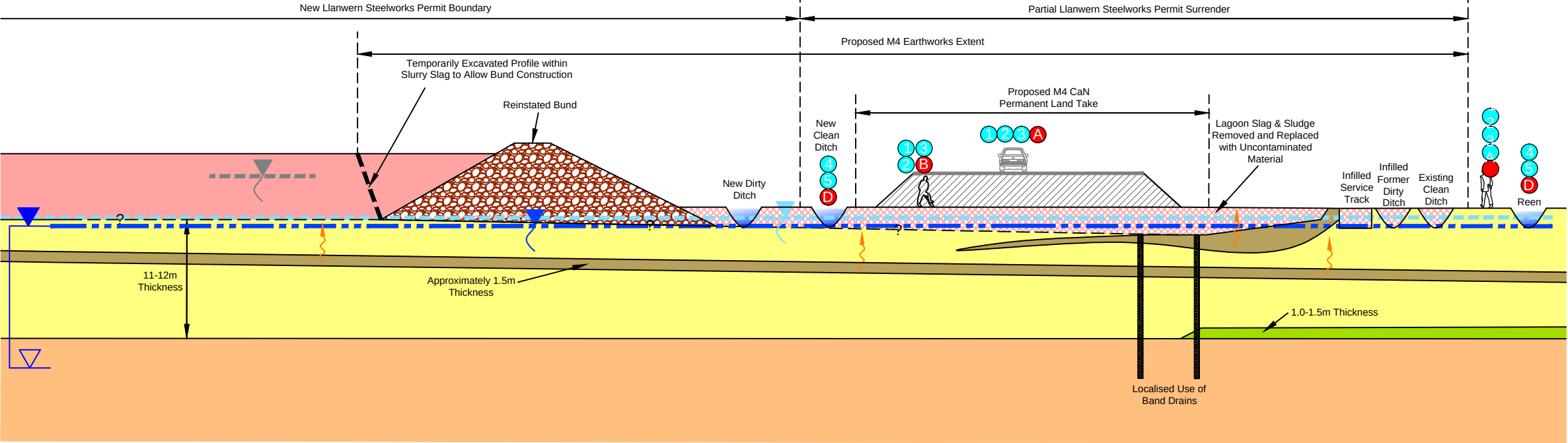


CL- 26 Llanwern Steelworks

Existing



Proposed



Legend

- Made Ground (Slurry Slag) - MG
- Coarse Slag (Peripheral Bund)
- Uncontaminated Clean Infill Material
- Tidal Flat Deposits - TFD
- Peat
- Glaciofluvial Deposits - GFD
- Mercia Mudstone (Proven) - MM
- Proposed Motorway (Cement Stabilised Lagoon Slurry)
- Proposed Band Drain
- No Information Available
- Perched Water (MG)
- Perched Groundwater (TFD)
- Groundwater (GFD and MM)
- Water Strike
- Rest Water Level
- Gas Migration Pathway

Potential Receptors

- Humans On-Site (M4 User)
- Humans On-Site (Construction/Maintenance)
- Humans Off-Site (Site Neighbours)
- Groundwater (Aquifer)
- Groundwater (Perched)
- Surface Water

Potential Pathways

- Dermal Contact
- Inhalation
- Ingestion
- Leaching / Migration
- Surface Run Off

Potential Sources of Contamination

Possible contamination present on site associated with :

- On-Site
 - Contamination present on site associated with the slag material located in the lagoons
 - Cyanide is recorded in a mobile state
- Off-Site
 - Main Llanwern Steelworks

NOTE
Drawing refined from PSSR Drawing Reference
M4-OA-17-00DR-Z-XX-0145 (April 2014)



Appendix 11.1 Annex D CL-26

Conceptual Site Model for CL-26 (Lagoons)

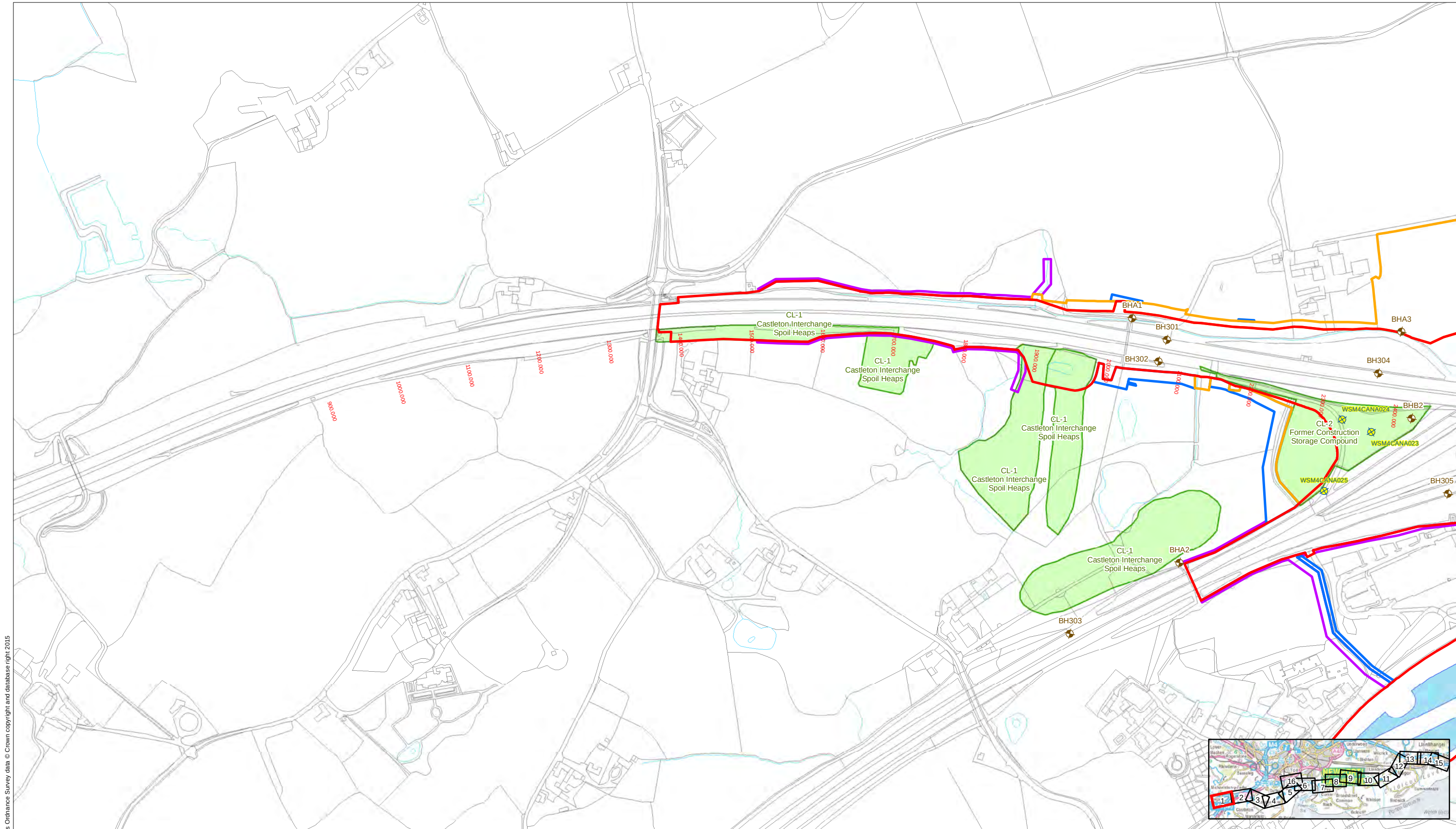
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Date: August 2016	Status: At Issue
Drawn: RJJ	Checked: FB

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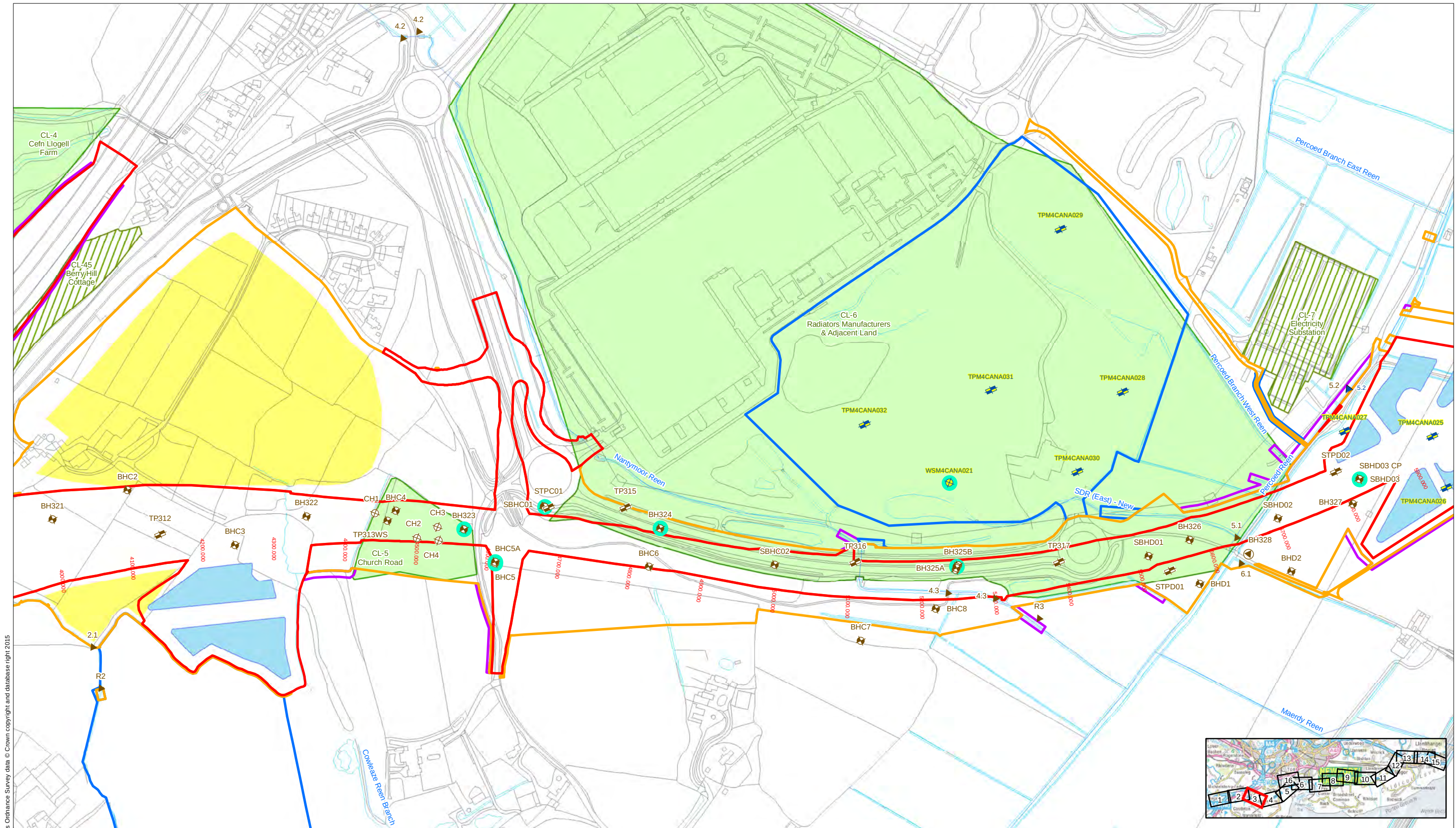
Ground conditions based on available information

dwg ref: JER6591_Figure2_CL26LagoonsConceptualSiteModel

dwg ref: JER6591_Figure3_GroundInvestigationLocations Contains Ordnance Survey data © Crown copyright and database right 2015



dwg ref: JER6591_Figure3_GroundInvestigationLocations Contains Ordnance Survey data © Crown copyright and database right 2015



Legend

- Permanent Highway Land within Fenceline (including Water Treatment Areas)
- Other Permanent Land Take
- Temporary Construction Land
- Easement Only
- Proposed Water Treatment Area
- Potential Borrow Pit Area
- Sites of Potential Land Contamination Sources Affected by the Scheme
- Sites of Potential Land Contamination Sources Unlikely to be Affected by the Scheme

- Monitoring Well Installation
- Historical Ground Investigation Locations
 - Borehole
 - Window Sample Borehole
 - Trial Pit
 - Dynamic Probe
 - Surface Water Monitoring Location

- 2015/16 Additional Ground Investigation Locations
 - Borehole
 - Window Sample Borehole
 - Trial Pit
 - Hand Dug Pit
 - Surface Water Monitoring Location



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Appendix 11.1

Ground Investigation Locations

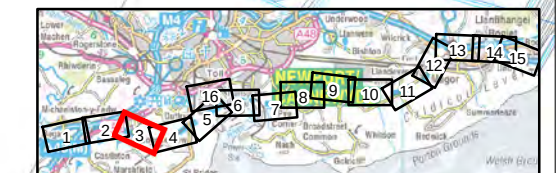
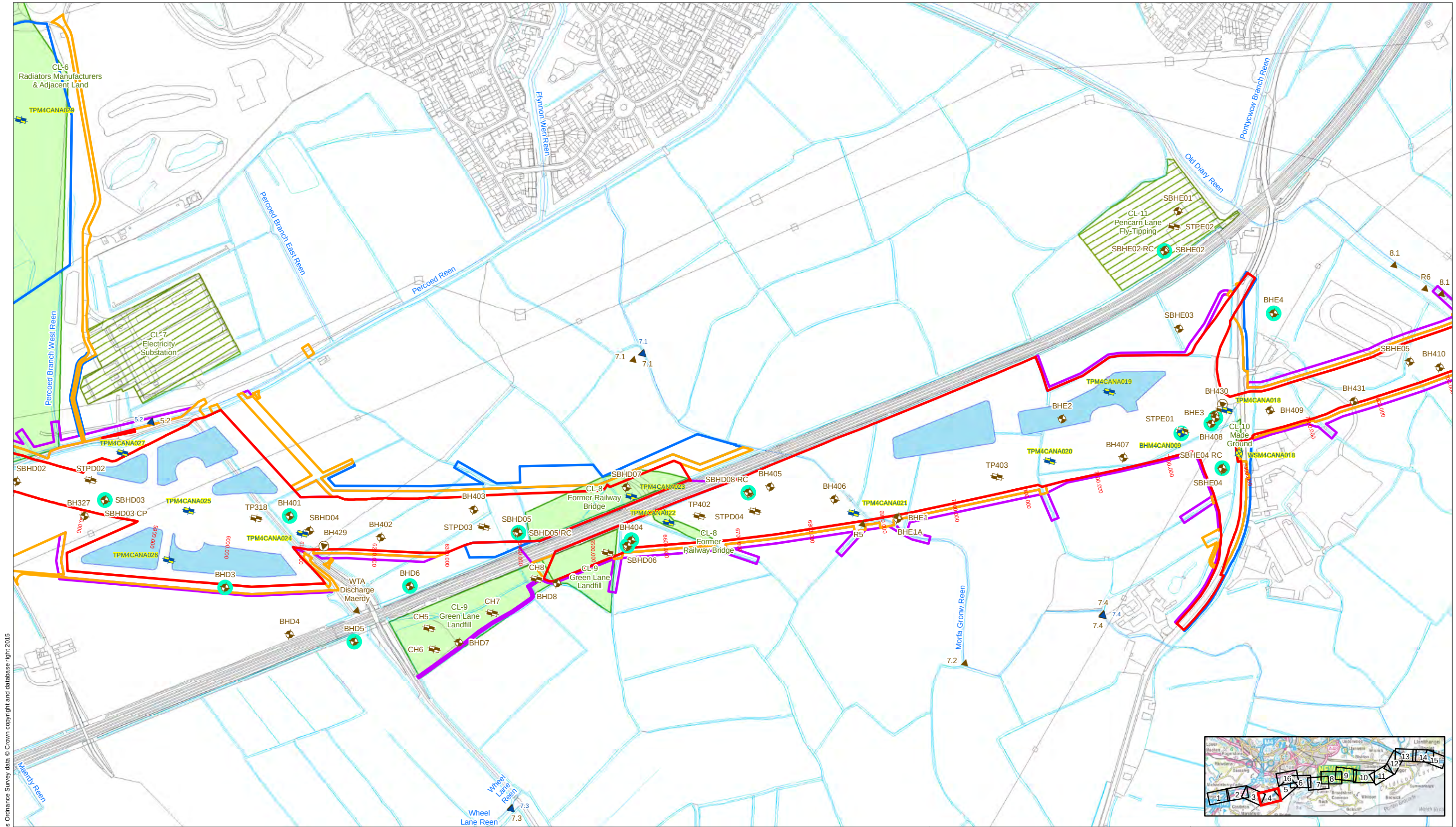


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dwg ref: JER6591_Figure3_GroundInvestigationLocations	



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Appendix 11.1

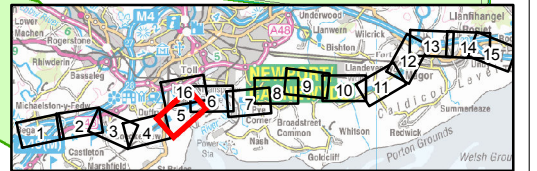
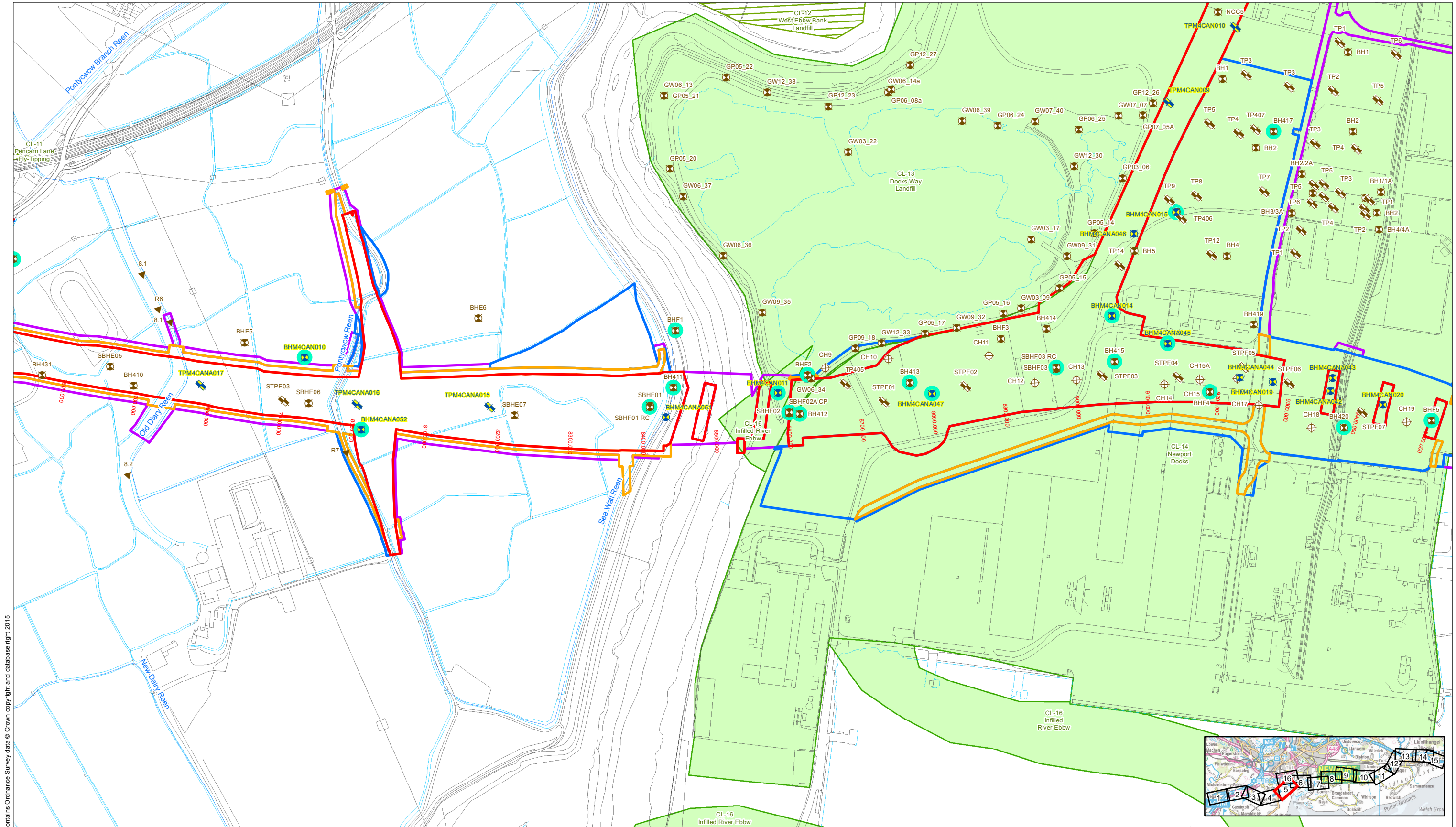
Ground Investigation Locations



Figure: 3d	Revision: -
Date: August 2016	Status: At Issue
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dwg ref: JER6591_Figure3_GroundInvestigationLocations



Legend

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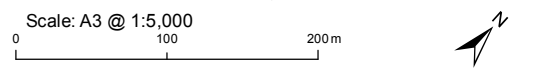


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Appendix R11.1

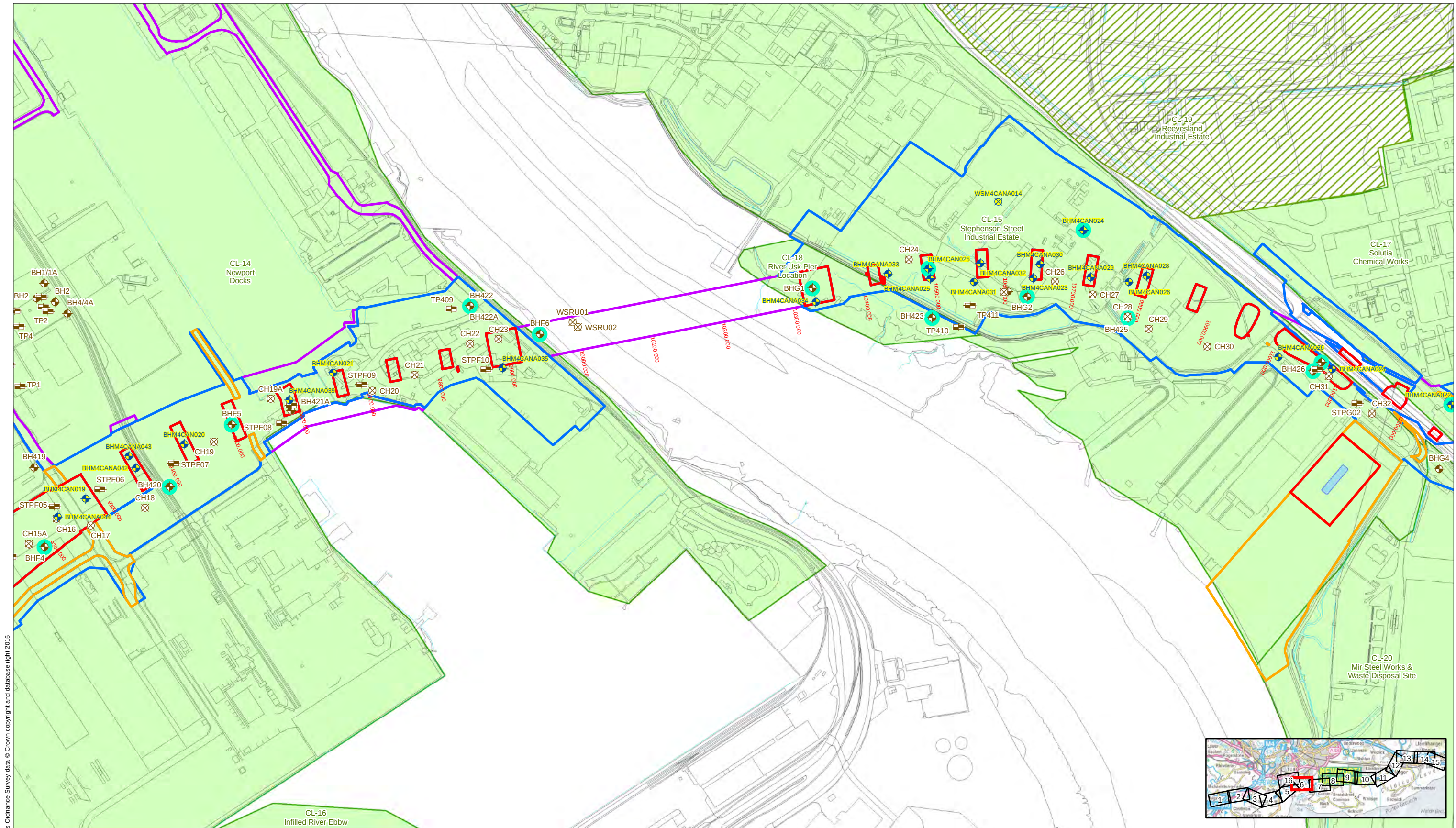
Ground Investigation Locations

Figure: SR3e	Revision: 1
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Legend

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Appendix 11.1

Ground Investigation Locations

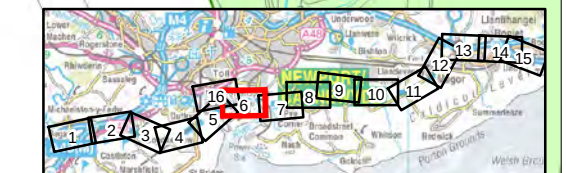
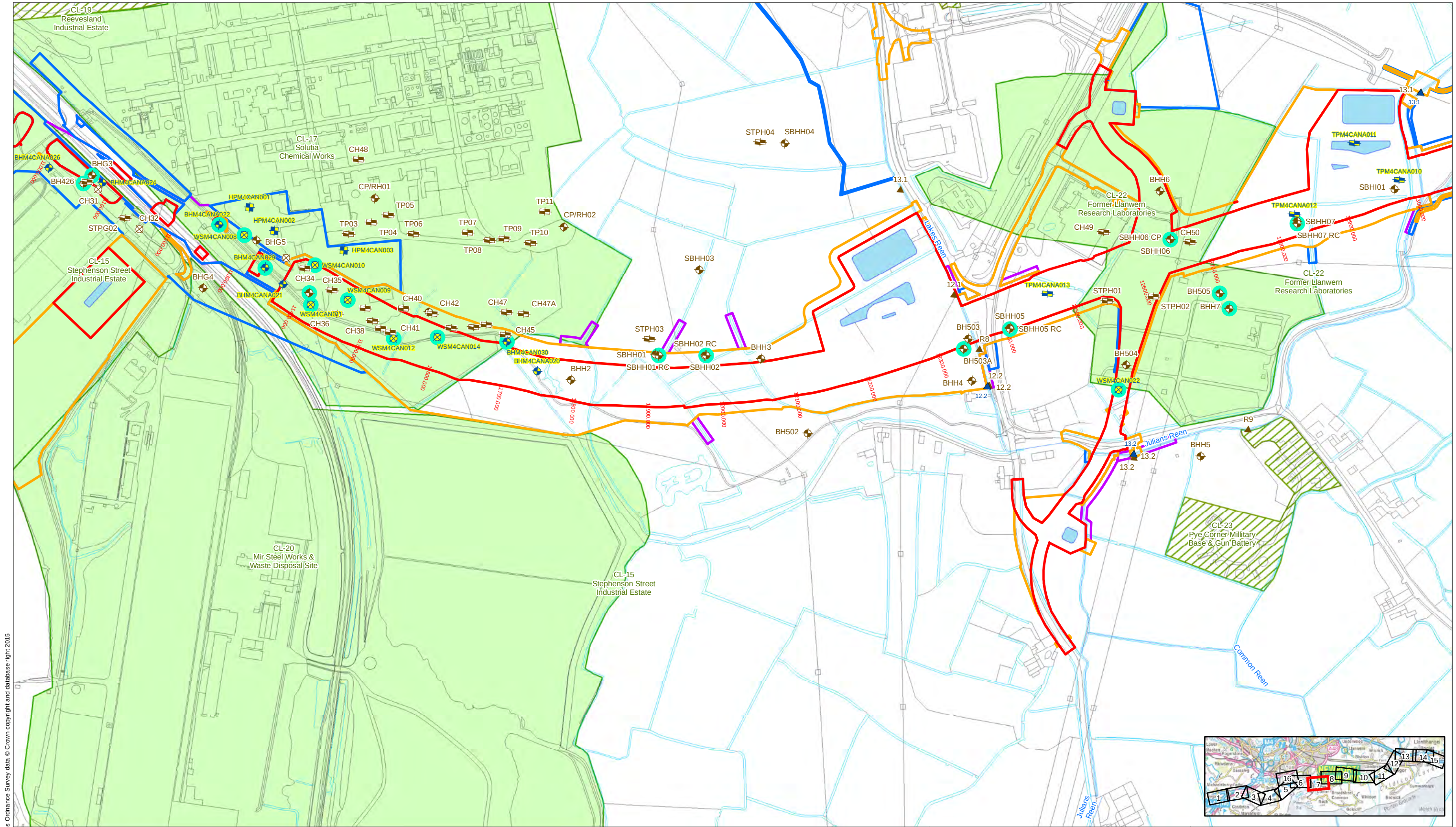


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 - Borehole
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 - Trial Pit
 - Hand Dug Pit
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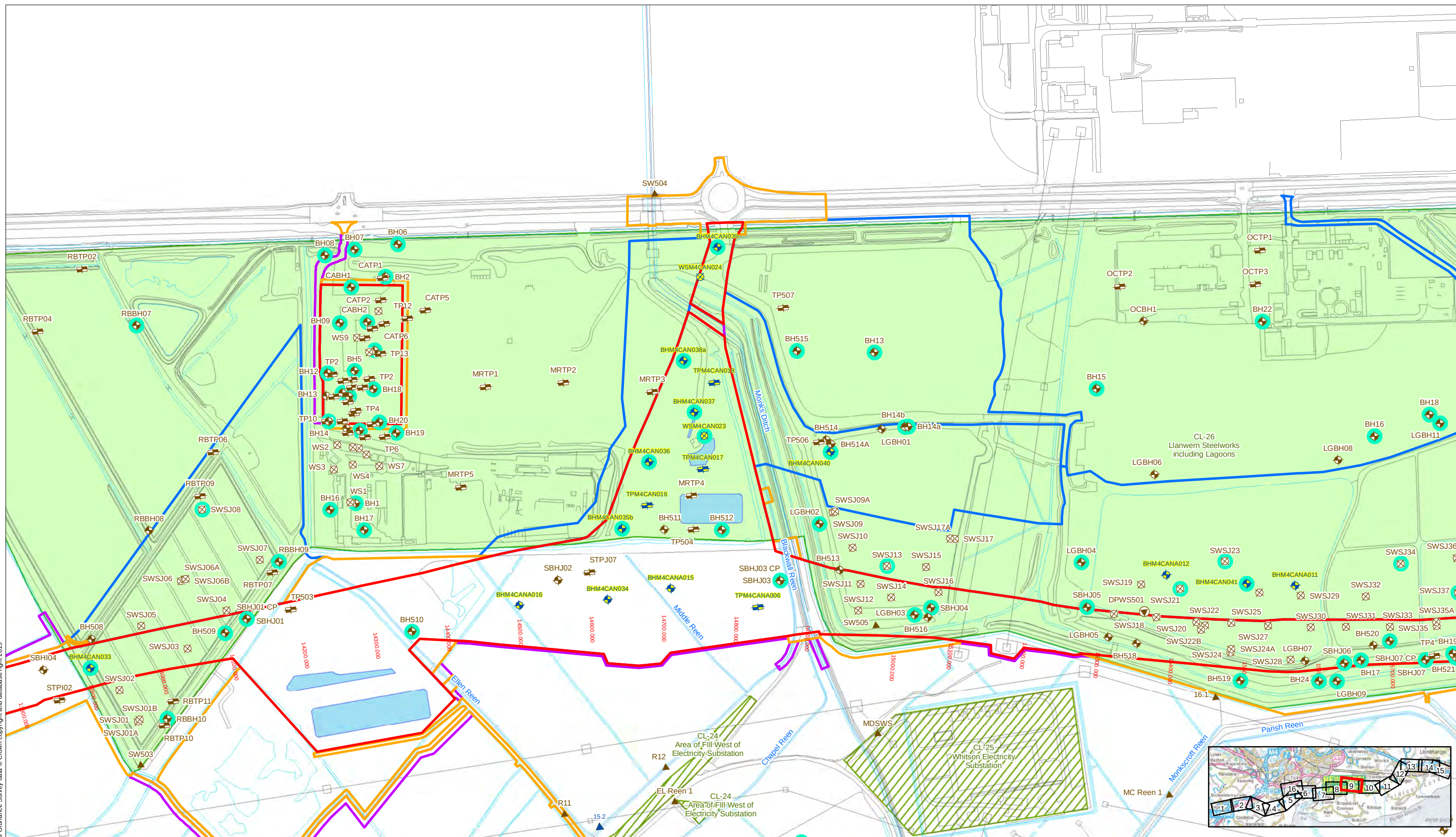
Ground Investigation Locations

Figure: 3g	Revision: -
Date: August 2016	Status: At Issue
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Legend

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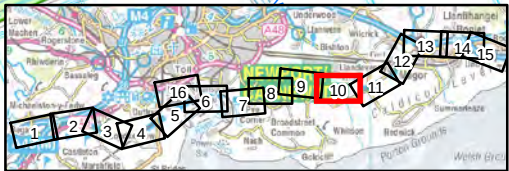
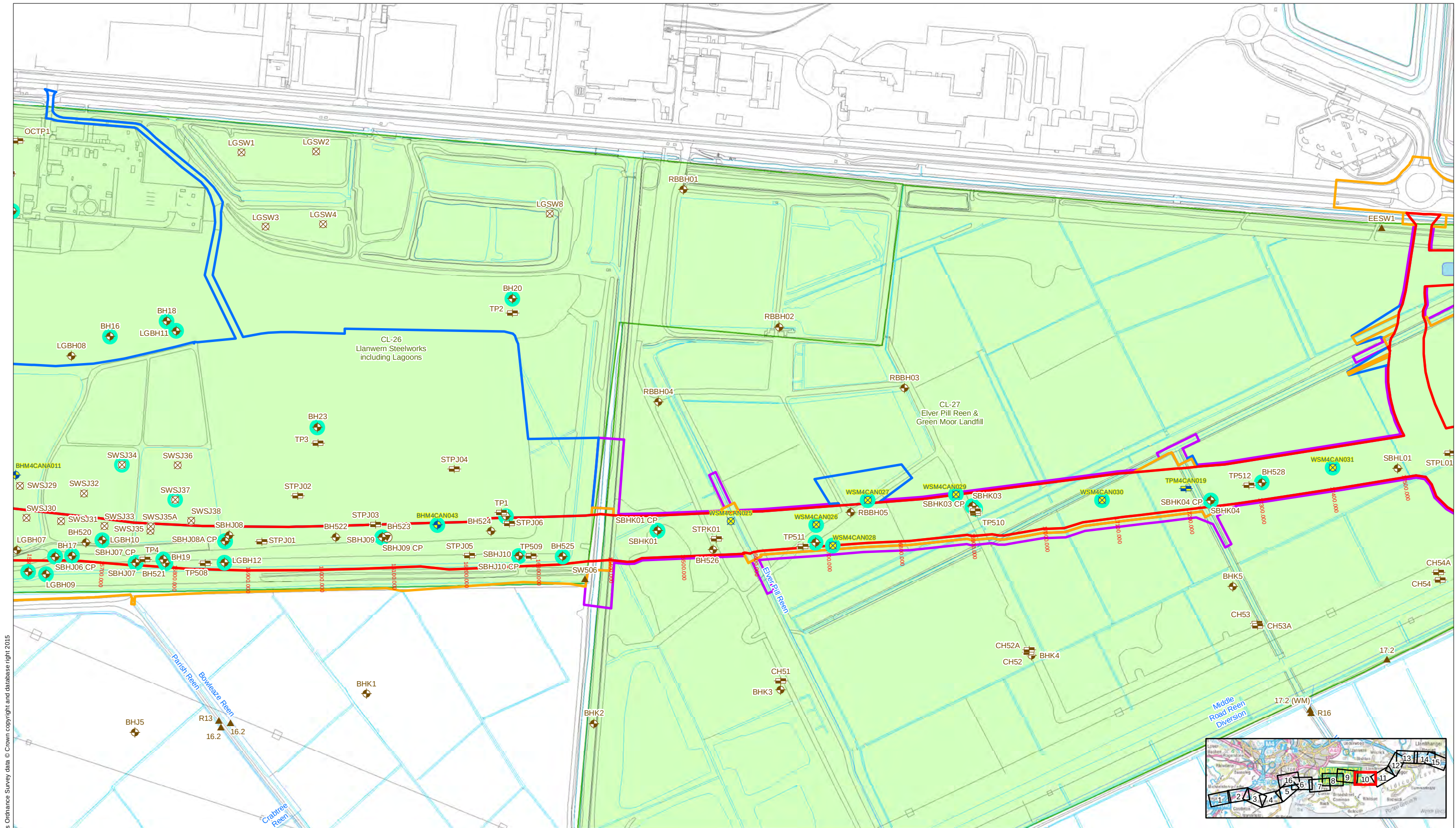
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Appendix 11.1

Ground Investigation Locations

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Legend

- Permanent Highway Land within Fenceline (including Water Treatment Areas)
- Other Permanent Land Take
- Temporary Construction Land
- Easement Only
- Proposed Water Treatment Area
- Potential Borrow Pit Area
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- Monitoring Well Installation**
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 - Trial Pit
 - Dynamic Probe
 - Surface Water Monitoring Location
- Historical Ground Investigation Locations**
- Borehole
 - Window Sample Borehole
 - Trial Pit
 - Dynamic Probe
 - Surface Water Monitoring Location

- 2015/16 Additional Ground Investigation Locations**
- Borehole
 - Window Sample Borehole
 - Trial Pit
 - Hand Dug Pit
 - Surface Water Monitoring Location

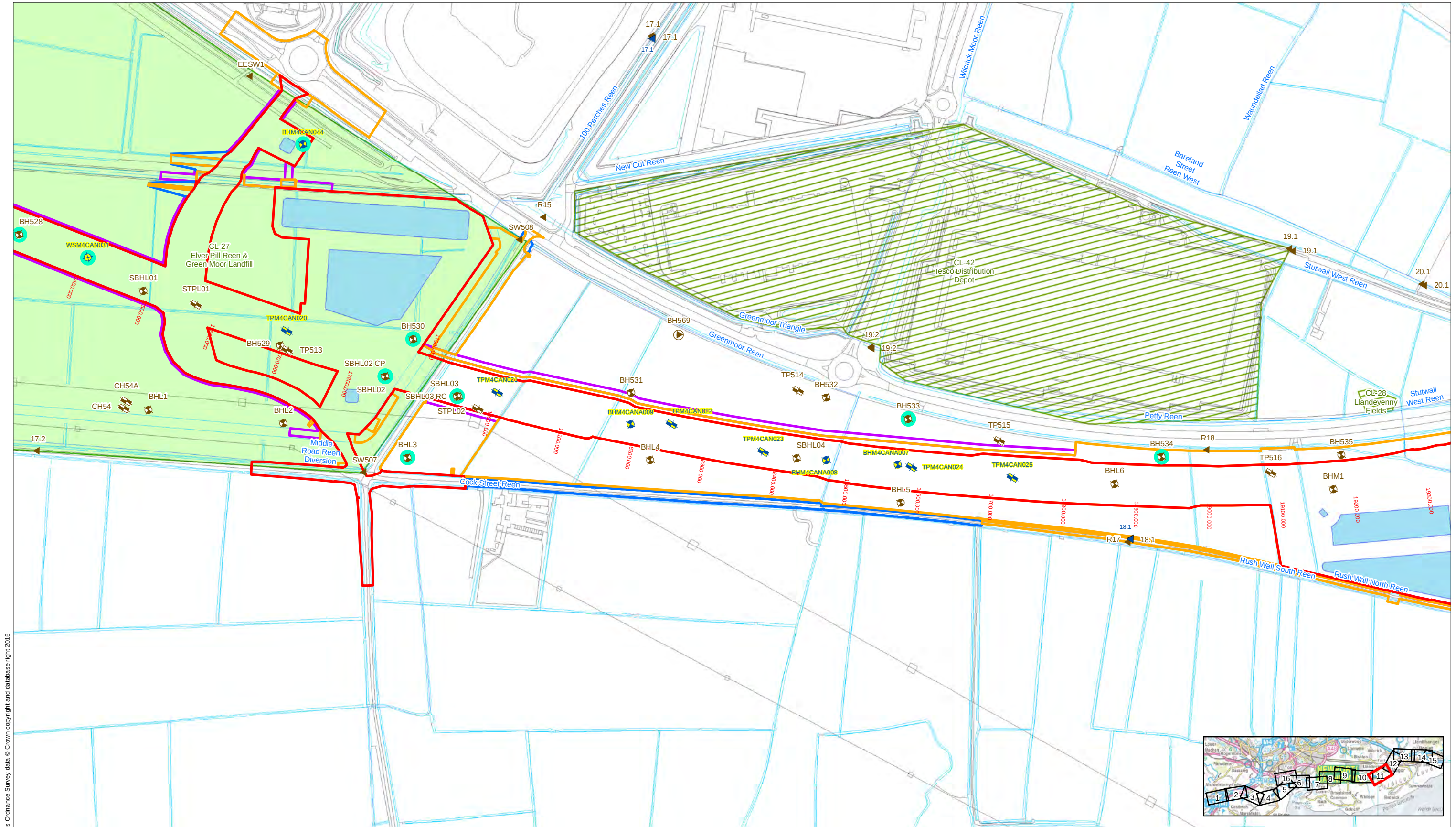


Appendix 11.1

Ground Investigation Locations

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dwg ref: JER6591_Figure3_GroundInvestigationLocations	

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Legend

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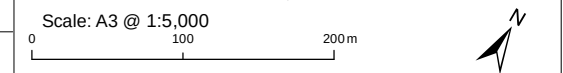
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Appendix 11.1

Ground Investigation Locations

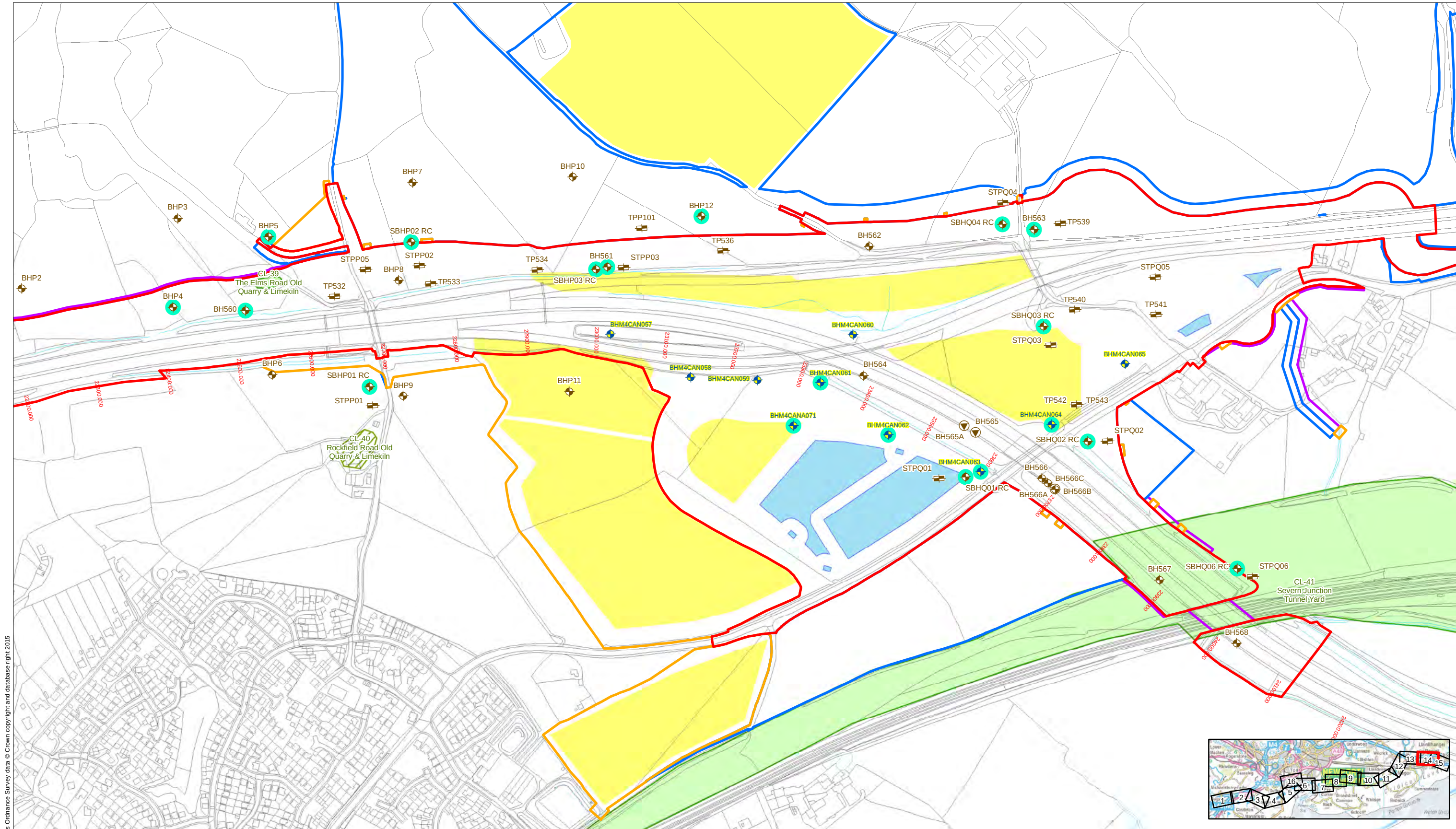


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Legend

- Permanent Highway Land within Fenceline (including Water Treatment Areas)
- Other Permanent Land Take
- Temporary Construction Land
- Easement Only
- Proposed Water Treatment Area
- Potential Borrow Pit Area
- Sites of Potential Land Contamination Sources Affected by the Scheme
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- Monitoring Well Installation
- Historical Ground Investigation Locations
 - Borehole
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 - Borehole
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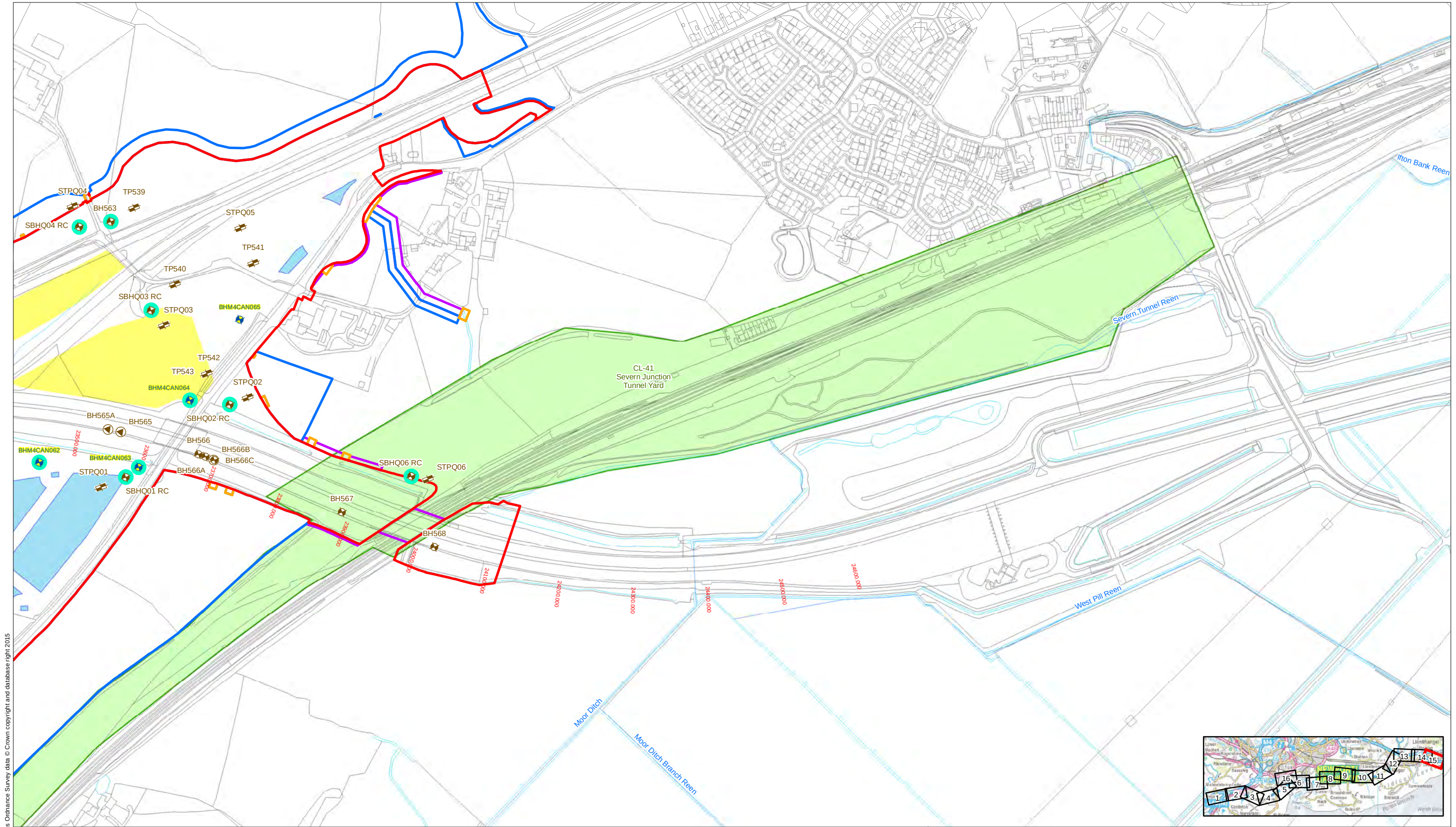


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Appendix 11.1

Ground Investigation Locations

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Date: August 2016	Status: At Issue
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Legend

- Permanent Highway Land within Fenceline (including Water Treatment Areas)
- Other Permanent Land Take
- Temporary Construction Land
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- Proposed Water Treatment Area
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- Sites of Potential Land Contamination Sources Affected by the Scheme
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- Monitoring Well Installation**
- Borehole
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 - Surface Water Monitoring Location
- Historical Ground Investigation Locations**

- 2015/16 Additional Ground Investigation Locations**
- Borehole
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 - Trial Pit
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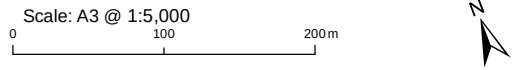
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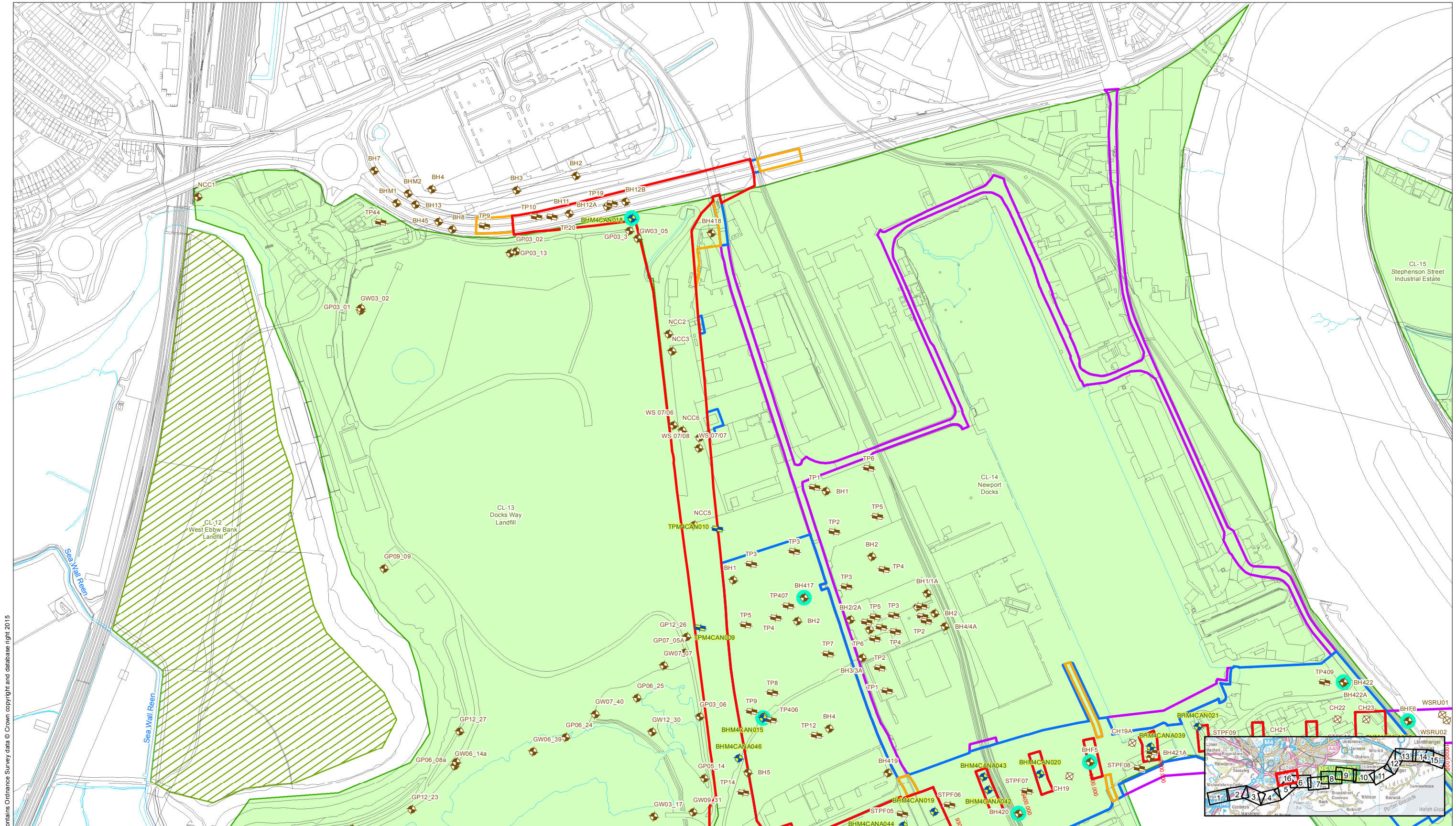
Ground Investigation Locations



Figure: 30	Revision: -
Date: August 2016	Status: At Issue
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Legend

- Permanent Highway Land within Fenceline (including Water Treatment Areas)
- Other Permanent Land Take
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Appendix R11.1

Ground Investigation Locations

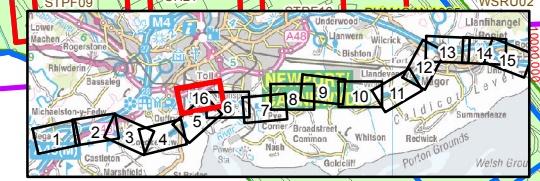
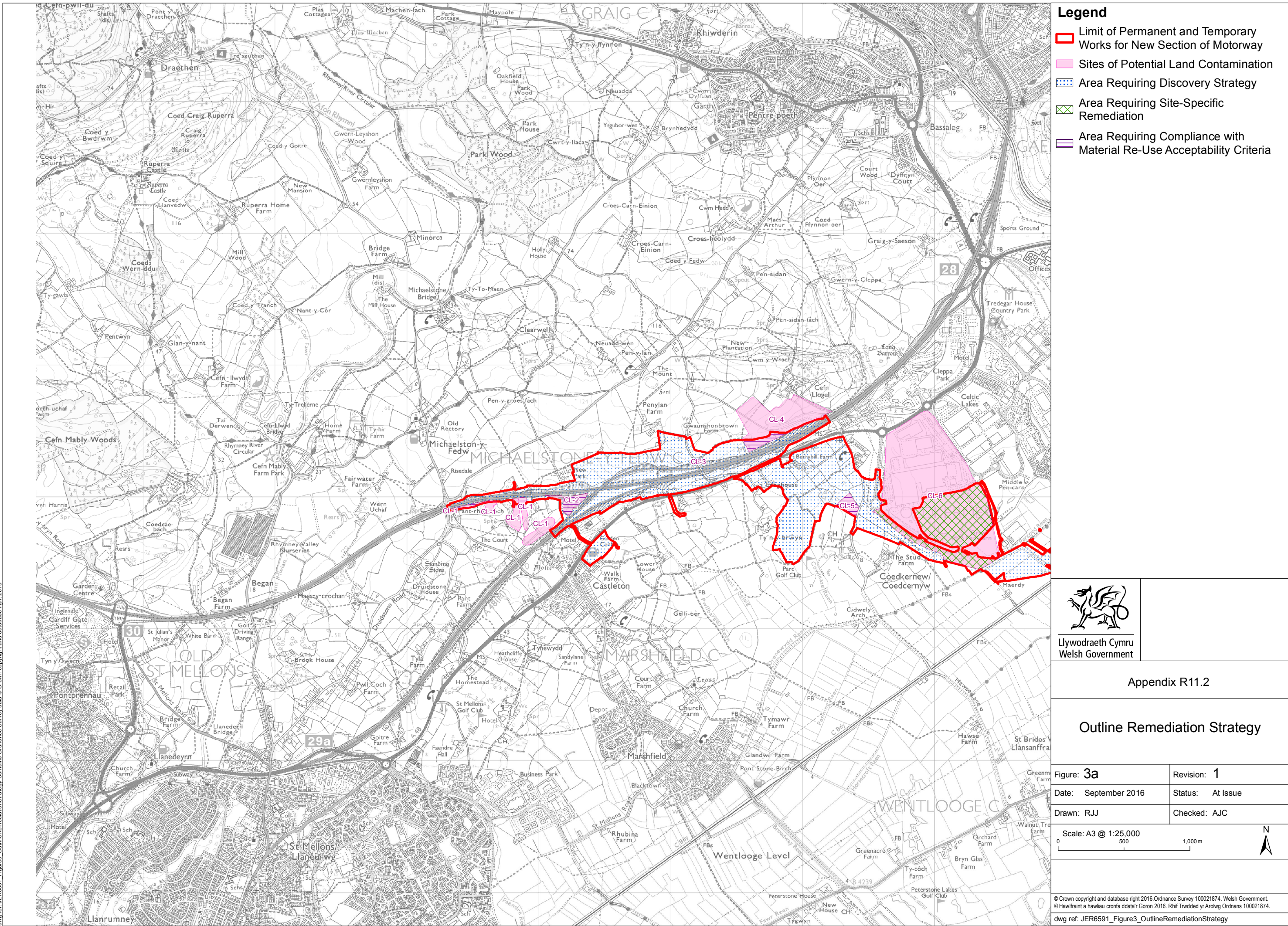
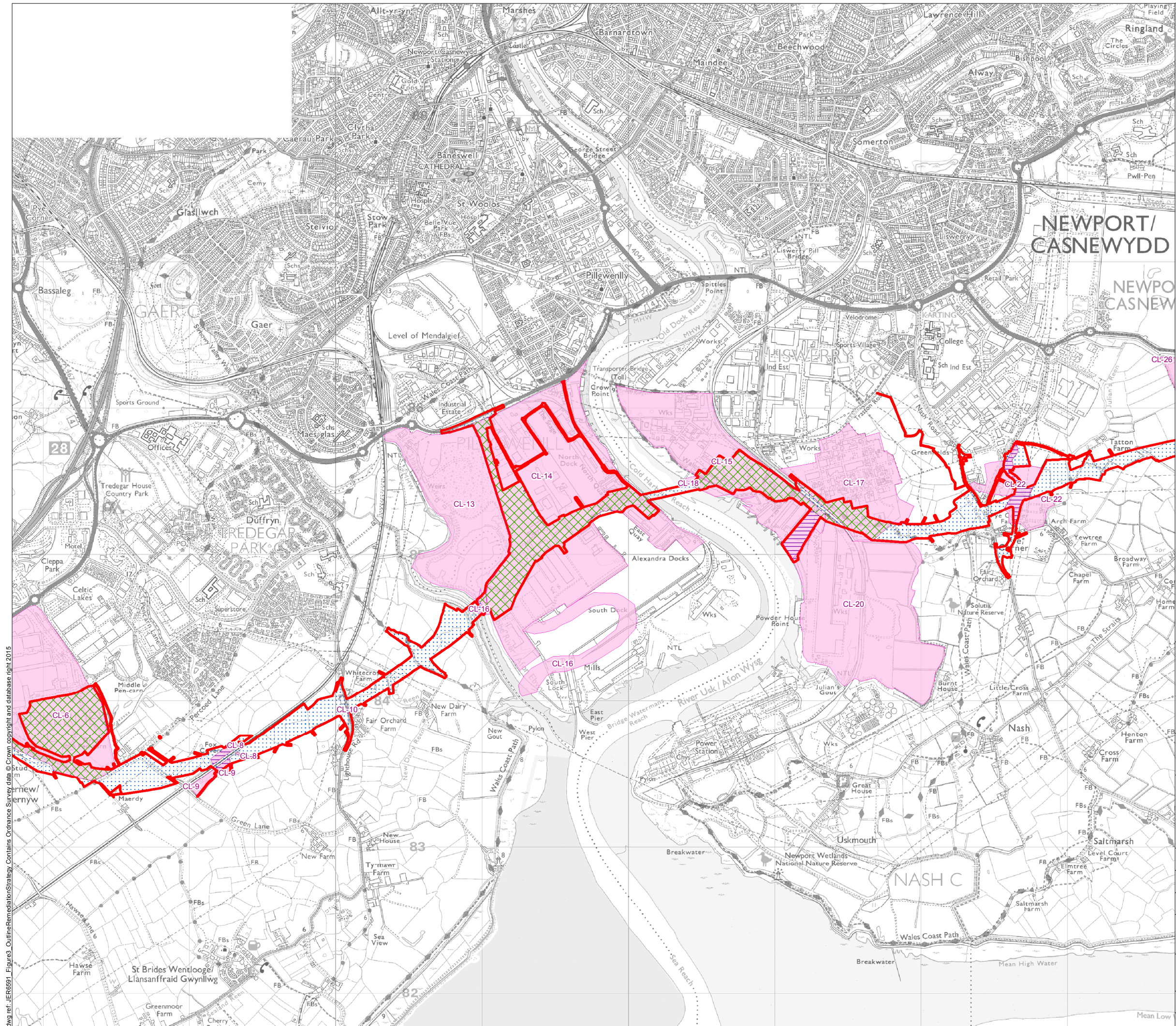


Figure: SR3p	Revision: 1
Date: December 2016	Status: At Issue
Drawn: RJJ	Checked: AJC
Scale: A3 @ 1:5,000 0 100 200 m	
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dwg ref: JER6591_Figure3_OutlineRemediationStrategy Contains Ordnance Survey data © Crown copyright and database right 2015





- Legend**
- Limit of Permanent and Temporary Works for New Section of Motorway
 - Sites of Potential Land Contamination
 - Area Requiring Discovery Strategy
 - Area Requiring Site-Specific Remediation
 - Area Requiring Compliance with Material Re-Use Acceptability Criteria



Llywodraeth Cymru
Welsh Government

Appendix R11.2

Outline Remediation Strategy

Figure: 3b	Revision: 1
Date: September 2016	Status: At Issue
Drawn: RJJ	Checked: AJC

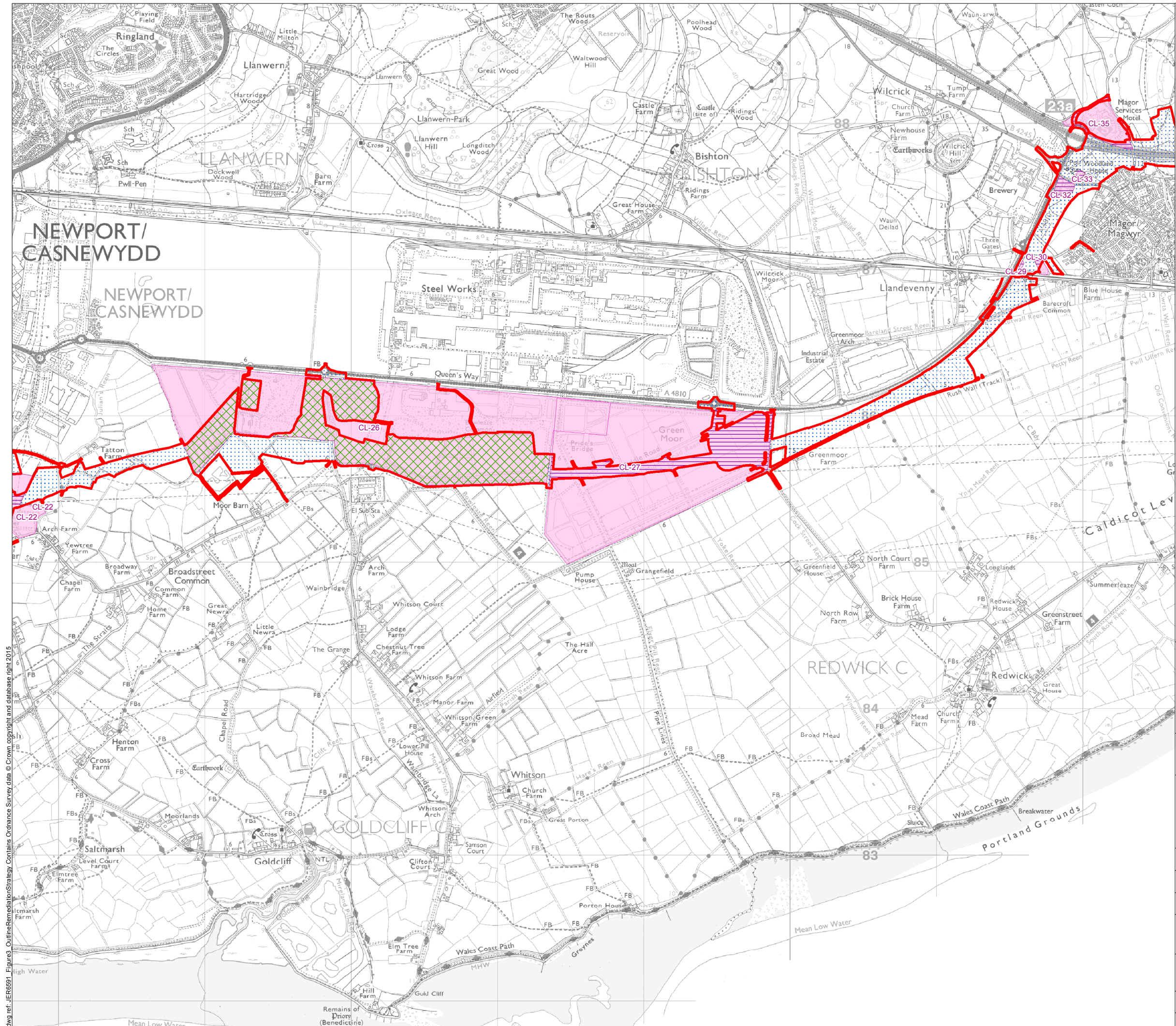
Scale: A3 @ 1:25,000

0 500 1,000 m

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dwg ref: JER6591_Figure3_OutlineRemediationStrategy



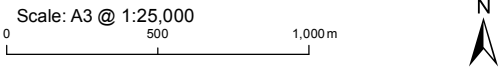
- Legend**
- Limit of Permanent and Temporary Works for New Section of Motorway
 - Sites of Potential Land Contamination
 - Area Requiring Discovery Strategy
 - Area Requiring Site-Specific Remediation
 - Area Requiring Compliance with Material Re-Use Acceptability Criteria

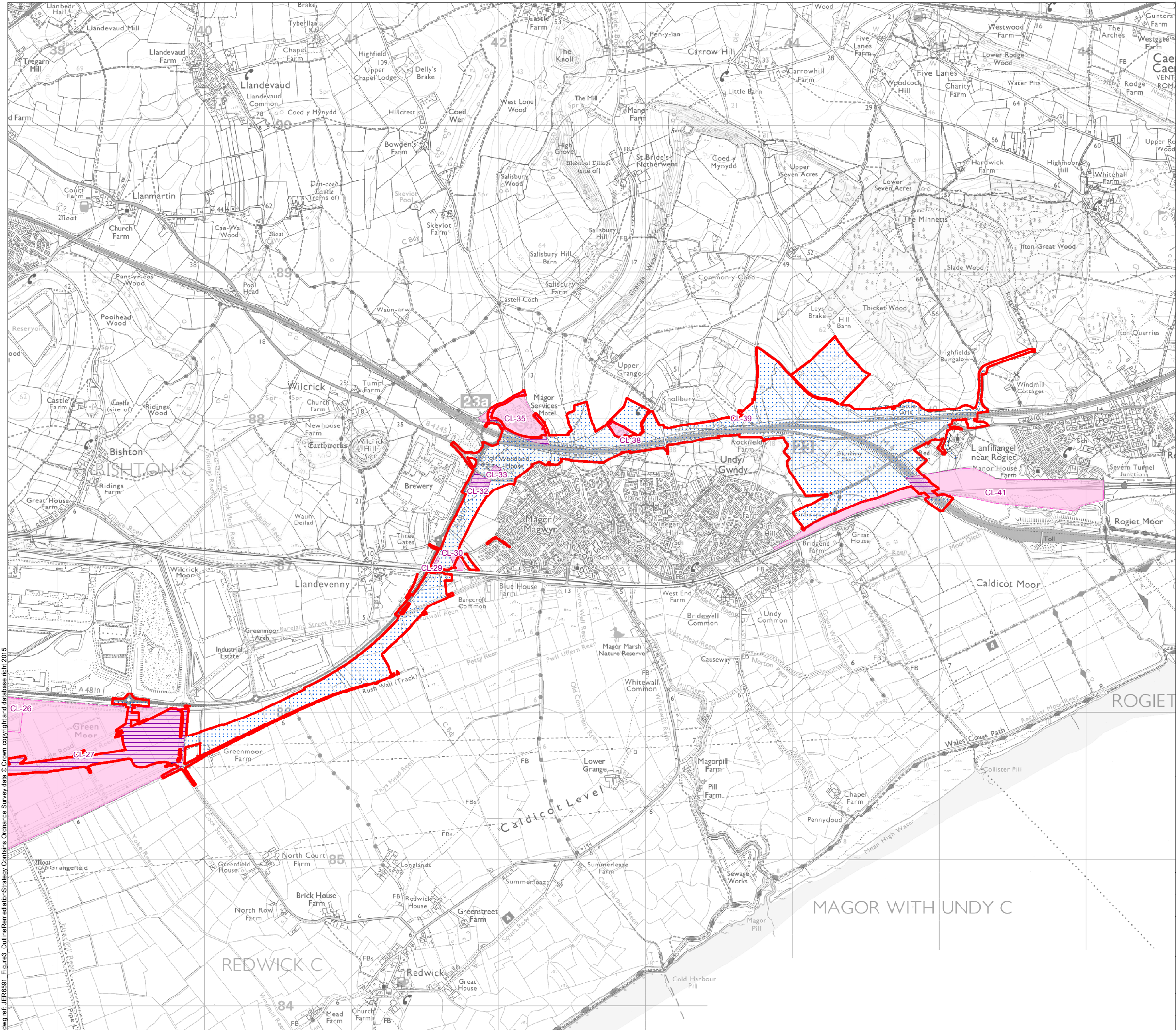


Appendix R11.2

Outline Remediation Strategy

Figure: 3C	Revision: 1
Date: September 2016	Status: At Issue
Drawn: RJJ	Checked: AJC





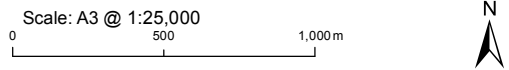
- Legend**
- Limit of Permanent and Temporary Works for New Section of Motorway
 - Sites of Potential Land Contamination
 - Area Requiring Discovery Strategy
 - Area Requiring Site-Specific Remediation
 - Area Requiring Compliance with Material Re-Use Acceptability Criteria



Appendix R11.2

Outline Remediation Strategy

Figure: 3d	Revision: 1
Date: September 2016	Status: At Issue
Drawn: RJJ	Checked: AJC



Appendix 1 Summary Risk Matrix of Potentially Contaminated Sites

M4 Corridor Around Newport

Summary of Risks for Each Potential Area of Contamination

	Potential contamination source area	CL1	CL2	CL3	CL4	CL5	CL6	CL8	CL9	CL10	CL13	CL14
	Risk during construction											
HUMAN HEALTH	Ingestion / dermal contact / inhalation of contaminated dusts and soils by C.workers	NR	V L	L	NR	L *	V L	L	V L	V L	M	M to L
	Inhalation of ground gas / vapours by C. workers from MG material	NR	V L	L	NR	NR	V L	V L	V L	NR	H	M
	Inhalation of asbestos fibres by C. workers	NR	NR	NR	NR	NR	NR	NR	NR	NR	H	NR
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by off site public/users	NR	V L	V L	NR	V L	VL	NR	NR	V L	NR	V L
	Inhalation of ground gas / vapours by off site public/users from MG material	NR	NR	V L	NR	NR	V L	NR	NR	NR	NR	V L
	Inhalation of ground gas / explosion for C. workers from PEAT	NR	NR	NR	NR	NR	H	NR	M	NR	M to L	M to L
	Inhalation of ground gas / explosion for off site public from PEAT	NR	NR	NR	NR	NR	M to L	NR	NR	NR	NR	M to L
CONTROLLED WATERS	Contaminated surface runoff to surface water	NR	NR	NR	NR	V L	L	V L	L	VL	M	L
	Contaminants leaching from MG into surface water	NR	NR	NR	NR	V L and L	L	V L	L	VL	L	VL
	Perched water or aquifer groundwater entering surface water	NR	NR	NR	NR	NR	L	V L	L	V L	L	V L
	Contaminants leaching from MG into deep aquifer	NR	L	V L	NR	NR	L	V L	L	V L	L	L
	Contaminant migration from MG via band drains or piling	NR	NR	NR	NR	NR	L	V L	L	V L	L	L
	Mobilisation of sediments	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Dewatering pathway causing GW to contaminate surface water	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
HUMAN HEALTH	Risk during operation											
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by MW	L	V L	NR	NR	V L	V L	V L	V L	V L	L	V L
	Inhalation of ground gas / vapours by MW by MG material	L	V L	NR	NR	NR	V L	V L	V L	NR	L	V L
	Inhalation of asbestos fibres by maintenance workers	NR	NR	NR	NR	NR	NR	NR	NR	NR	M to L	NR
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by motorway users	V L	V L	NR	NR	V L	V L	V L	V L	V L	V L	V L
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by off site general public/users	V L	V L	NR	NR	V L	NR	NR	NR	V L	V L	V L
	Inhalation of ground gas / vapours by off site workers / public / motorway users by MG material	V L	V L	NR	NR	NR	V L	V L	V L	NR	V L	V L
	Inhalation of ground gas / explosion for M. workers from PEAT	NR	NR	NR	NR	NR	M	NR	M	NR	M to L	M to L
	Inhalation of ground gas / explosion for motorway users from PEAT	NR	NR	NR	NR	NR	M to L	NR	M to L	NR	M to L	M to L
	Inhalation of ground gas / explosion for off site public from PEAT	NR	NR	NR	NR	NR	M to L	NR	NR	NR	NR	M to L
CONTROLLED WATERS	Contaminated run-off to surface water	L	NR	NR	NR	NR	NR	NR	NR	NR	L	NR
	Contaminants leaching from MG into surface water	NR	NR	NR	NR	NR	L	VL	L	VL	L	VL
	Perched water or aquifer groundwater entering surface water	NR	NR	NR	NR	NR	L	V L	L	V L	L	V L
	Contaminants leaching from MG into deep aquifer	V L	L	NR	NR	NR	L	VL	L	V L	V L	L
	Contaminant migration from MG via band drains or piling	NR	NR	NR	NR	NR	L	V L	L	V L	V L	L

Notes

* Risk level to be updated/verified following additional ground investigation.

^ refers to depot workers

Risk in **bold** indicates potential mitigation required.

Bracketed risks relate to a specific part of the CL site/feature as identified within the potential contamination source area heading.

Key

C. worker = Construction worker

CW = Controlled water

MG = Made Ground

MW = Maintenance worker

H = High Risk

M = Moderate Risk

L = Low Risk

VL = Very Low Risk

NR = Risk not considered relevant or negligible due to lack of contaminant source, receptor or pathway.

M4 Corridor Around Newport
Summary of Risks for Each Potential Area of Cont

	Potential contamination source area	CL15	CL17 (PCB cell)	CL18	CL22 (benzene pipeline)	CL26 Lagoons	CL26 Reedbeds (Glan Llyn depot)	CL27	CL29	CL30	CL32	CL33
	Risk during construction											
HUMAN HEALTH	Ingestion / dermal contact / inhalation of contaminated dusts and soils by C.workers	M to L	H	M and L	L (M) *	M	M	M	L	V L	M	L
	Inhalation of ground gas / vapours by C. workers from MG material	M to L	M (H)	M and L	L (H) *	H	L	L	V L	L	M	L
	Inhalation of asbestos fibres by C. workers	NR	H	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by off site public/users	V L	H	V L	V L (M to L) *	V L	V L	L	V L	V L	L	L
	Inhalation of ground gas / vapours by off site public/users from MG material	V L	L	NR	V L (H) *	M	V L	L	V L	V L	L	L
	Inhalation of ground gas / explosion for C. workers from PEAT	M	M to L	M	M *	M	M	M	NR	NR	NR	NR
	Inhalation of ground gas / explosion for off site public from PEAT	M to L	M to L	NR	M to L *	M to L	M to L	M to L	NR	NR	NR	NR
CONTROLLED WATERS	Contaminated surface runoff to surface water	L	M	NR	M (M) *	H	H	M	NR	NR	NR	NR
	Contaminants leaching from MG into surface water	VL	L	VL	M (M) *	H	L	L	NR	NR	NR	NR
	Perched water or aquifer groundwater entering surface water	V L	L	V L	M (M) *	H	L	L	NR	NR	NR	NR
	Contaminants leaching from MG into deep aquifer	L	L (M)	L	L	L	L	L	V L	L	M	M to L
	Contaminant migration from MG via band drains or piling	L	L (M)	L	L	L	L	L	NR	NR	NR	NR
	Mobilisation of sediments	NR	NR	L	NR	NR	NR	NR	NR	NR	NR	NR
	Dewatering pathway causing GW to contaminate surface water	NR	NR	M	NR	NR	NR	NR	NR	NR	NR	NR
HUMAN HEALTH	Risk during operation											
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by MW	V L	M	NR	V L	V L	V L	V L	NR	V L	V L	V L
	Inhalation of ground gas / vapours by MW by MG material	V L	L (M to L)	NR	V L	V L	V L	V L	NR	V L	V L	L
	Inhalation of asbestos fibres by maintenance workers	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by motorway users	V L	L	NR	V L	V L	V L	V L	NR	V L	NR	V L
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by off site general public/users	V L	L	NR	V L	V L	V L	V L	NR	V L	NR	V L
	Inhalation of ground gas / vapours by off site workers / public / motorway users by MG material	V L	V L	NR	V L	V L	M to L (M^)	V L	NR	V L	V L	L
	Inhalation of ground gas / explosion for M. workers from PEAT	M to L	V L	NR	M to L *	M to L	M to L (M)	M to L	NR	NR	NR	NR
	Inhalation of ground gas / explosion for motorway users from PEAT	M to L	V L	NR	M to L *	M to L	M to L	M to L	NR	NR	NR	NR
	Inhalation of ground gas / explosion for off site public from PEAT	M to L	V L	NR	M to L *	M to L	M to L	M to L	NR	NR	NR	NR
CONTROLLED WATERS	Contaminated run-off to surface water	NR	NR	NR	L	NR	NR	NR	NR	NR	NR	NR
	Contaminants leaching from MG into surface water	V L	L	VL	M to L *	L	L	L	NR	NR	NR	NR
	Perched water or aquifer groundwater entering surface water	VL	L	VL	M to L *	L	L	L	NR	NR	NR	NR
	Contaminants leaching from MG into deep aquifer	L	L (M to L)	L	M to L *	L	L	L	V L	L	M	M to L
	Contaminant migration from MG via band drains or piling	L	L (M to L)	L	M to L *	L	L	L	NR	NR	NR	NR

M4 Corridor Around Newport

Summary of Risks for Each Potential Area of Cont

	Potential contamination source area	CL35	CL38	CL39	CL41
	Risk during construction				
HUMAN HEALTH	Ingestion / dermal contact / inhalation of contaminated dusts and soils by C.workers	M to L *	V L	M *	L
	Inhalation of ground gas / vapours by C. workers from MG material	M to L *	V L	M *	NR
	Inhalation of asbestos fibres by C. workers	NR	NR	NR	NR
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by off site public/users	M to L *	V L	L	L
	Inhalation of ground gas / vapours by off site public/users from MG material	M to L *	V L	L	NR
	Inhalation of ground gas / explosion for C. workers from PEAT	NR	NR	NR	NR
	Inhalation of ground gas / explosion for off site public from PEAT	NR	NR	NR	NR
CONTROLLED WATERS	Contaminated surface runoff to surface water	M to L *	NR	NR	V L
	Contaminants leaching from MG into surface water	M to L *	NR	NR	M to L *
	Perched water or aquifer groundwater entering surface water	M to L *	NR	NR	M to L *
	Contaminants leaching from MG into deep aquifer	M to L *	V L	M *	L
	Contaminant migration from MG via band drains or piling	NR	NR	NR	NR
	Mobilisation of sediments	NR	NR	NR	NR
	Dewatering pathway causing GW to contaminate surface water	NR	NR	NR	NR
HUMAN HEALTH	Risk during operation				
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by MW	L	V L	NR	V L
	Inhalation of ground gas / vapours by MW by MG material	L	VL	L	NR
	Inhalation of asbestos fibres by maintenance workers	NR	NR	NR	NR
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by motorway users	L	V L	NR	V L
	Ingestion / dermal contact / inhalation of contaminated dusts and soils by off site general public/users	L	V L	NR	V L
	Inhalation of ground gas / vapours by off site workers / public / motorway users by MG material	NR	V L	L	NR
	Inhalation of ground gas / explosion for M. workers from PEAT	NR	NR	NR	NR
	Inhalation of ground gas / explosion for motorway users from PEAT	NR	NR	NR	NR
	Inhalation of ground gas / explosion for off site public from PEAT	NR	NR	NR	NR
CONTROLLED WATERS	Contaminated run-off to surface water	NR	NR	NR	NR
	Contaminants leaching from MG into surface water	M to L *	NR	NR	L
	Perched water or aquifer groundwater entering surface water	M to L *	NR	NR	L
	Contaminants leaching from MG into deep aquifer	M to L *	V L	M *	M to L *
	Contaminant migration from MG via band drains or piling	NR	NR	NR	NR

Appendix 2 Email dated 3/11/16 from NRW

Andy Clifton

Subject: FW: M4CaN: Tata site

From: Poole, Jessica [<mailto:jessica.poole@cyfoethnaturiolcymru.gov.uk>]

Sent: 03 November 2016 15:39

To: Richard Graham; Willey, David; Llewellyn, Matthew; Morgan, Steve; 'Richard Spooner'; 'Aled Phillips'; Griffiths, Michelle; Peter Ireland; Andy Clifton; Jason Tose; George Flower

Cc: 'Barry Woodman'; 'Alison.Pugh@hyderconsulting.com'; 'Alison Pugh'

Subject: RE: M4CaN: Tata site

Dear Richard,

Thanks for sight of the finalised minutes of our 20 July 2016 meeting concerning the Tata lagoon site, and the amended Land Contamination Management Strategy.

I can confirm approval of the amendments made.

With best wishes, Jess

Jessica Poole
Cydgylltydd yr M4 / M4 Coordinator
Cyfoeth Naturiol Cymru / Natural Resources Wales
Ffôn / Tel: 0300 065 3174
Ffôn symudol / Mobile: 07968 838145
cyfoethnaturiol.cymru / naturalresources.wales

Yn falch o arwain y ffordd at ddyfodol gwell i Gymru trwy reoli'r amgylchedd ac adnoddau naturiol yn gynaliadwy.

Proud to be leading the way to a better future for Wales by managing the environment and natural resources sustainably.

Croesewir gohebiaeth yn y Gymraeg a'r Saesneg / Correspondence welcomed in both Welsh and English.

From: Richard Graham [<mailto:grahamR@rpsgroup.com>]

Sent: 15 September 2016 11:10

To: Poole, Jessica <jessica.poole@cyfoethnaturiolcymru.gov.uk>; Willey, David

<David.Willey@cyfoethnaturiolcymru.gov.uk>; Llewellyn, Matthew

<Matthew.Llewellyn@cyfoethnaturiolcymru.gov.uk>; Morgan, Steve

<Steve.Morgan@cyfoethnaturiolcymru.gov.uk>; 'Richard Spooner' <Richard.Spooner@costain.com>; 'Aled Phillips'

<aled.phillips@arup.com>; Griffiths, Michelle <Michelle.Griffiths@cyfoethnaturiolcymru.gov.uk>; Peter Ireland

<IrelandP@rpsgroup.com>; Andy Clifton <cliftonA@rpsgroup.com>; Jason Tose <ToseJ@rpsgroup.com>; George

Flower <George.Flower@arcadis.com>

Cc: 'Barry Woodman' <Barry.Woodman@costain.com>; 'Alison.Pugh@hyderconsulting.com'

<Alison.Pugh@hyderconsulting.com>; 'Alison Pugh' <Alison.Pugh@arcadis.com>

Subject: RE: M4CaN: Tata site

Dear Jess

Please find attached the finalised minutes of our meeting incorporating your comments for your approval. Also attached is our proposed edits to the Land Contamination Management Strategy to reflect your comments below. For convenience a clean and track changed version is provided.

With Best
Wishes
Richard