

TIER 2

ENVIRONMENTAL RISK ASSESSMENT

APPENDIX F

DRAWING NO.S 14.248.100 - 14.248.117

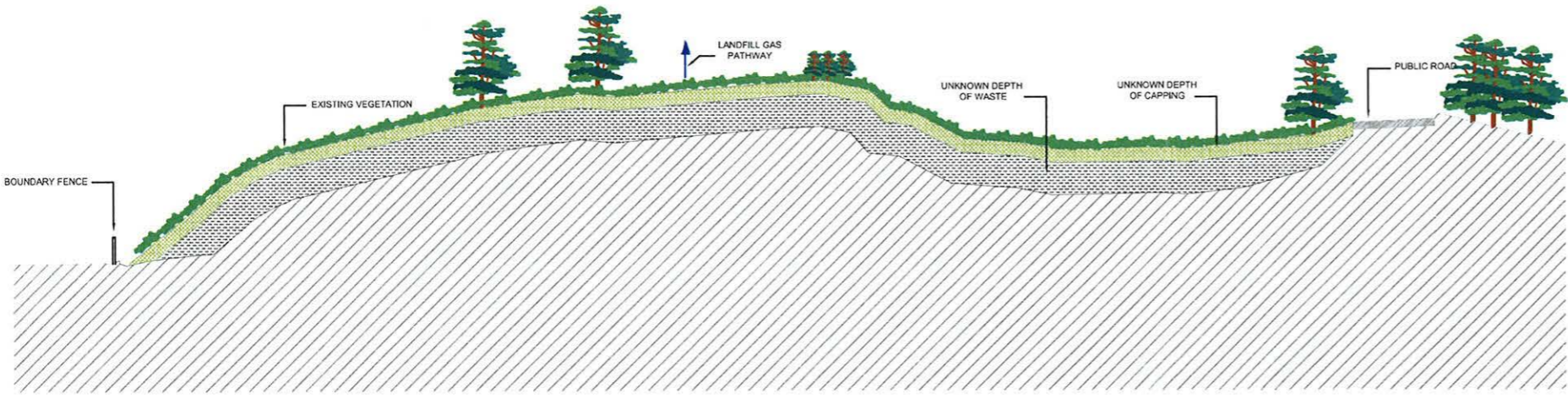
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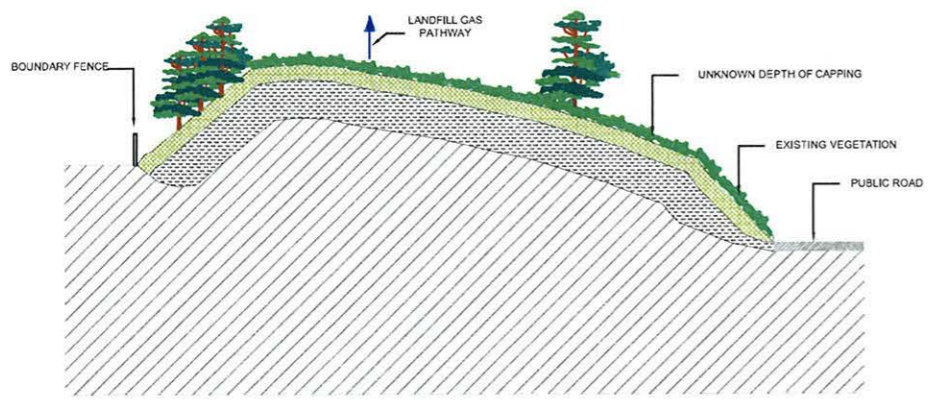
NOTES

LEGEND

	LANDFILL WASTE SOURCE
	CAPPING
	SOIL/FLY TIPPING WASTE



CONCEPT MODEL SECTION A-A
SCALE 1:200



CONCEPT MODEL SECTION B-B
SCALE 1:200



SITE LAYOUT KEY
SCALE 1:500

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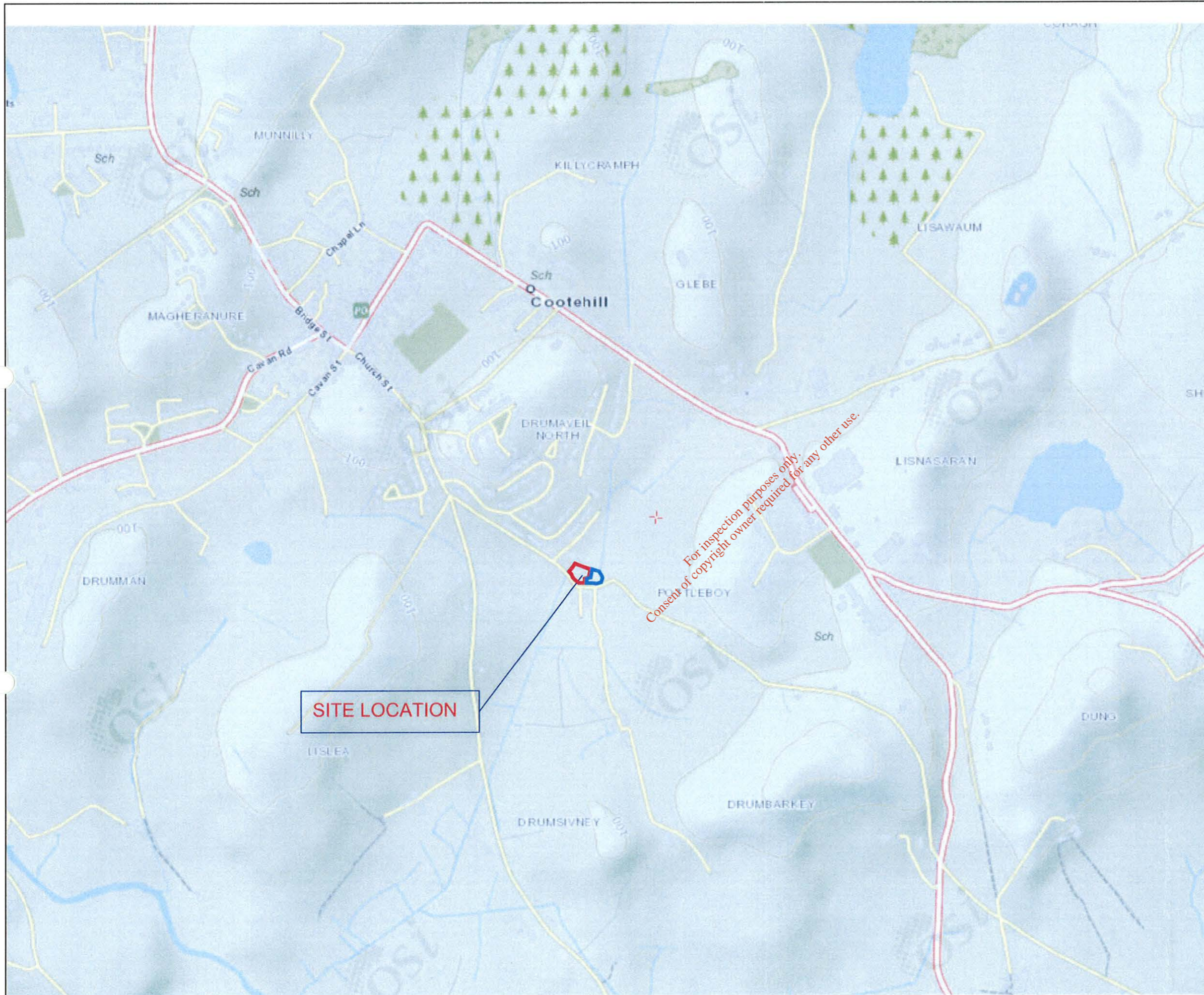
CLIENT
CAVAN COUNTY COUNCIL

PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTLEBOY COOTEHILL CO CAVAN

DRAWING TITLE
INITIAL CONCEPT MODELS OF WASTE DEPOSITED ON THE SITE

SCALE	DRAWN	CHECKED	APPROVED
	DARRAGH ROWAN	ANGELA MC DERMOTT	NEVIN TRAYNOR
SHOWN	DATE	DATE	DATE
	NOVEMBER 2014	NOVEMBER 2014	NOVEMBER 2014

DRAWING No.	REV.
14.248.100	



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REV.	DATE	DESCRIPTION	APPROVED
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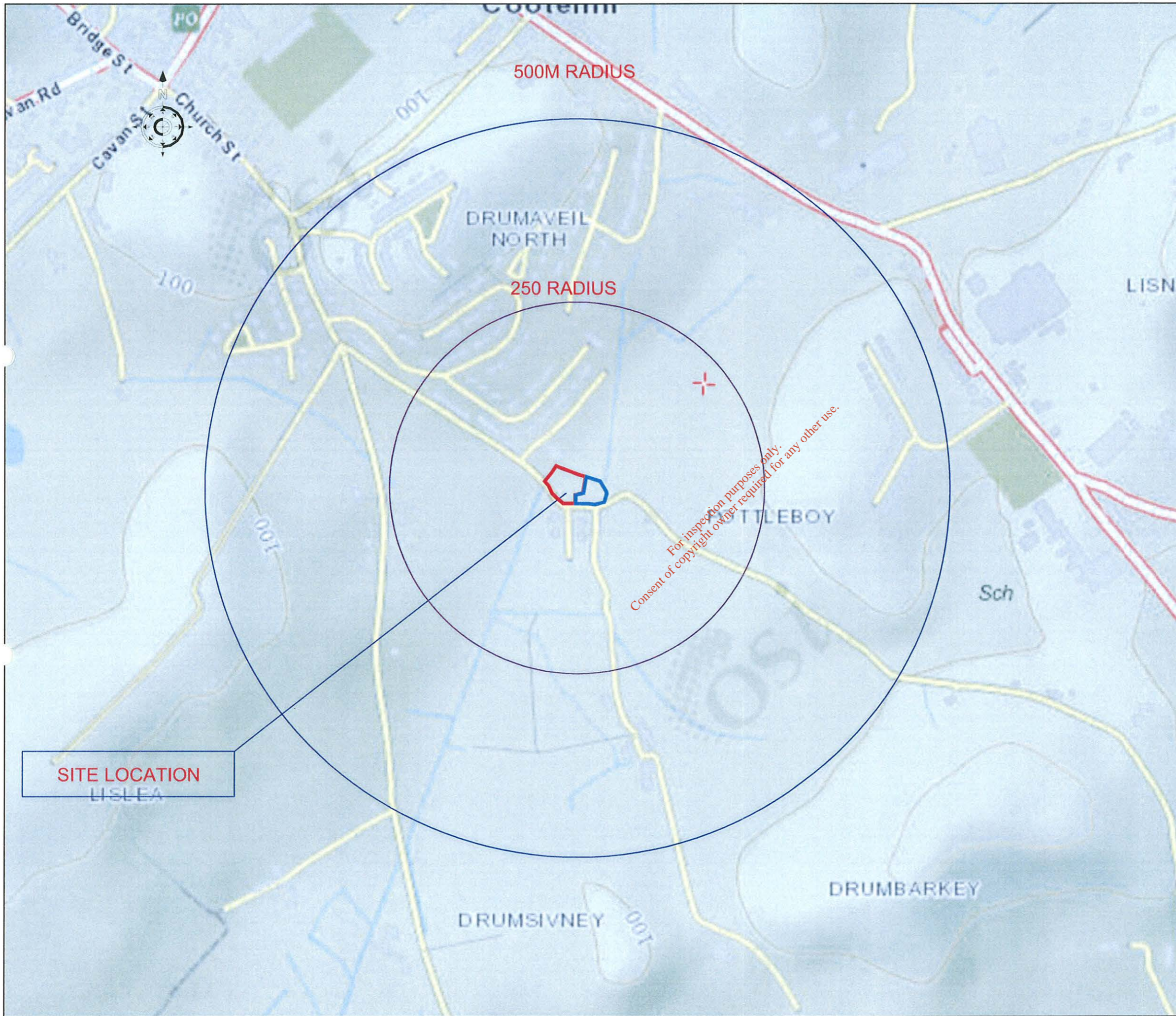
CLIENT
 CAVAN COUNTY COUNCIL

PROJECT TITLE
 SITE INVESTIGATION & RISK ASSESSMENT
 OF EXISTING HISTORIC LANDFILL SITE AT
 POTTLEBOY, COOTEHILL, CO CAVAN

DRAWING TITLE
 SITE LOCATION MAP

SCALE	DRAWN	CHECKED	APPROVED
1:5000	ANGELA MC DERMOTT	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE NOVEMBER 2014	DATE NOVEMBER 2014	DATE NOVEMBER 2014

DRAWING No.	REV.
14.248.101	



NOTES

- SITE BOUNDARY
- 250m RADIUS FROM THE SITE
- 500m RADIUS FROM THE SITE
- DWELLING HOUSE (RECEPTORS)

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PROJECT TITLE
 SITE INVESTIGATION & RISK ASSESSMENT
 OF EXISTING HISTORIC LANDFILL SITE AT
 POTTELEBOY, COOTEHILL, CO CAVAN

DRAWING TITLE
 POTENTIAL RECEPTORS IN THE
 VICINITY OF THE SITE


SCALE	DRAWN	CHECKED	APPROVED
1:5000	ANGELA MC DERMOTT	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE NOVEMBER 2014	DATE NOVEMBER 2014	DATE NOVEMBER 2014

DRAWING No.	REV.
14.248.102	



Site Location

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CLIENT			
CAVAN COUNTY COUNCIL			
PROJECT TITLE			
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTLEBOY, COOTEHILL, CO CAVAN			
DRAWING TITLE			
2000 - AERIAL MAP			
SCALE	DRAWN	CHECKED	APPROVED
1:5000	ANGELA MC DERMOTT	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE	DATE	DATE
	NOVEMBER 2014	NOVEMBER 2014	NOVEMBER 2014
DRAWING No.			REV.
14.248.103			

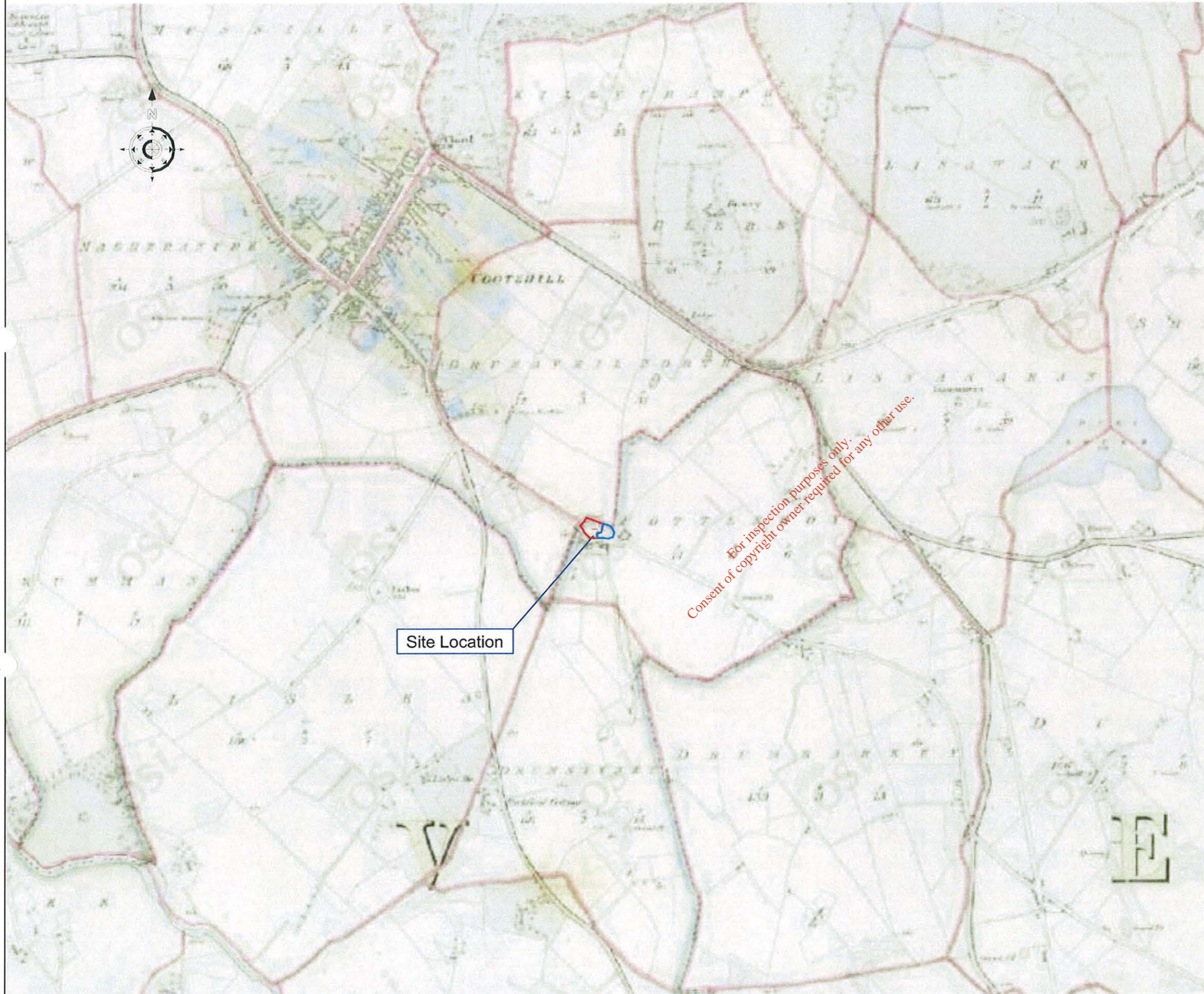


Site Location

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CLIENT CAVAN COUNTY COUNCIL			
PROJECT TITLE SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTLEBOY, COOTEHILL, CO CAVAN			
DRAWING TITLE ORTHO 1995 BLACK AND WHITE AERIAL PHOTOGRAPH			
SCALE	DRAWN	CHECKED	APPROVED
1:5000	ANGELA MC DERMOTT	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE	DATE	DATE
	NOVEMBER 2014	NOVEMBER 2014	NOVEMBER 2014
DRAWING No.			REV.
14.248.104			



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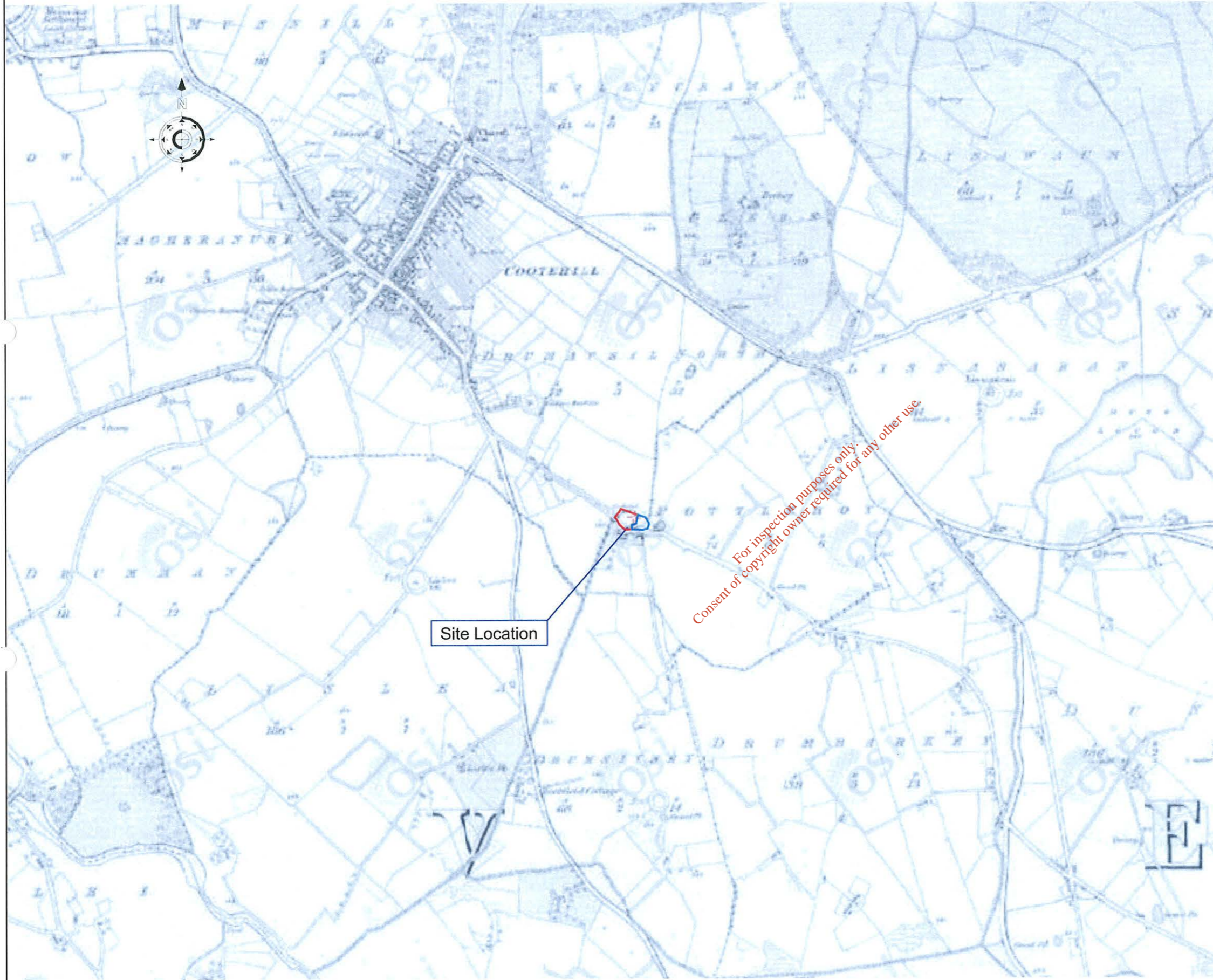
PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT
OF EXISTING HISTORIC LANDFILL SITE AT
POTTEBOY, COOTEHILL, CO CAVAN

DRAWING TITLE
HISTORIC MAPS
(1837 - 1842)

SCALE	DRAWN	CHECKED	APPROVED
1:10000	ANGELA MC DERMOTT	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE NOVEMBER 2014	DATE NOVEMBER 2014	DATE NOVEMBER 2014

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14.248.105A	

25 INCH MAPPING SERIES (1837 - 1842)
SCALE 1:10000



6 INCH MAPPING SERIES (1888 - 1913)
SCALE 1:10000

NOTES

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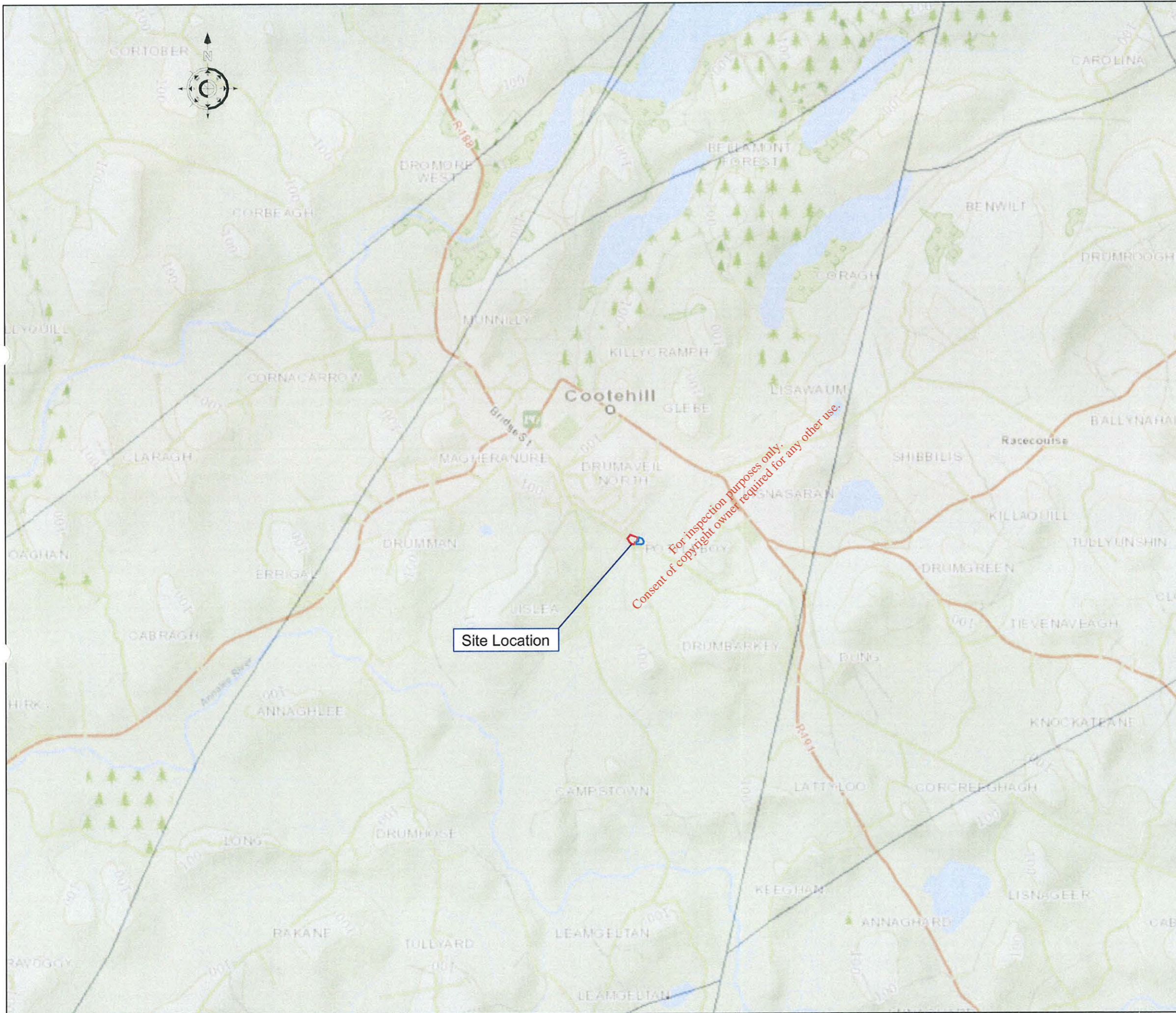
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PROJECT TITLE
 SITE INVESTIGATION & RISK ASSESSMENT
 OF EXISTING HISTORIC LANDFILL SITE AT
 POTTLEBOY, COOTEHILL, CO CAVAN

DRAWING TITLE
 HISTORIC MAPS
 (1888 - 1913)

SCALE	DRAWN	CHECKED	APPROVED
1:10000	ANGELA MC DERMOTT	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE NOVEMBER 2014	DATE NOVEMBER 2014	DATE NOVEMBER 2014

DRAWING No.	REV.
14.248.105B	



NOTES

National Draft Bedrock Aquifer Map

- Rf - Regionally Important Aquifer - Fissured bedrock
- Rk - Regionally Important Aquifer - Karstified
- Rkd - Regionally Important Aquifer - Karstified (diffuse)
- Rkc - Regionally Important Aquifer - Karstified (conduit)
- Lm - Locally Important Aquifer - Bedrock which is Generally Moderately Productive
- Lk - Locally Important Aquifer - Karstified
- LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
- Pl - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones
- Pu - Poor Aquifer - Bedrock which is Generally Unproductive
- Unclassified

National Draft Gravel Aquifer Map

- Rg - Regionally important, extensive sand/gravels aquifers
- Lg - Locally important, sand/gravel aquifers
- No gravels present
- Not Mapped

Bedrock Faults 100k

- RBD Boundaries
- County Boundaries
- Watermark

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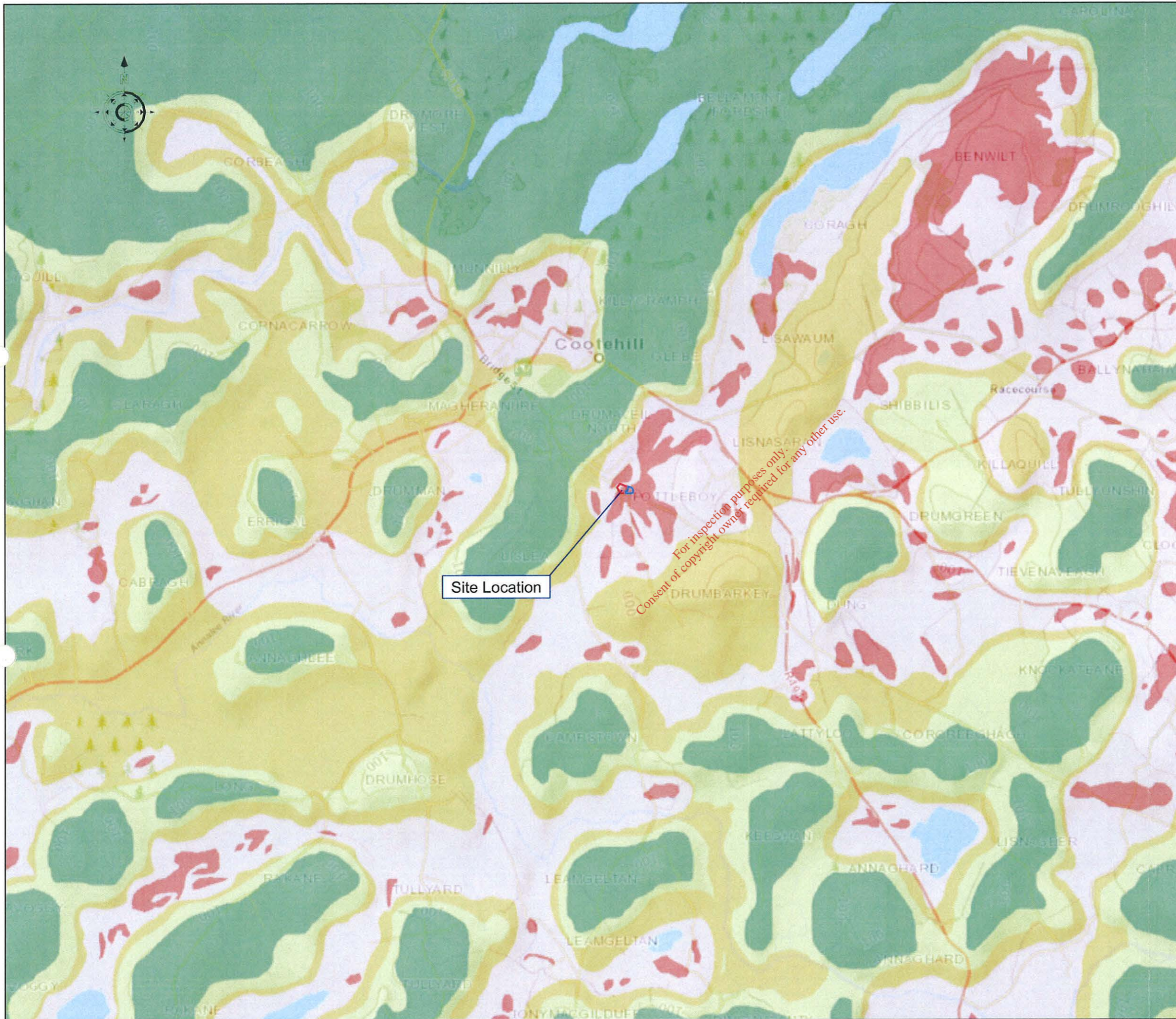
PROJECT TITLE: SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTLEBOY, COOTEHILL, CO CAVAN

DRAWING TITLE: GROUNDWATER MAP

SCALE	DRAWN	CHECKED	APPROVED
1:20000	ANGELA MC DERMOTT	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE NOVEMBER 2014	DATE NOVEMBER 2014	DATE NOVEMBER 2014

DRAWING No. 14.248.106

REV.



NOTES

- Interim Vulnerability**
- E (Rock near Surface or Karst)
 - E - Extreme
 - H - High
 - M - Moderate
 - L - Low
 - HL - High to Low. Only an interim study took place.
 - Water
 - RBD Boundaries
 - County Boundaries
 - Watermark

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Site Location

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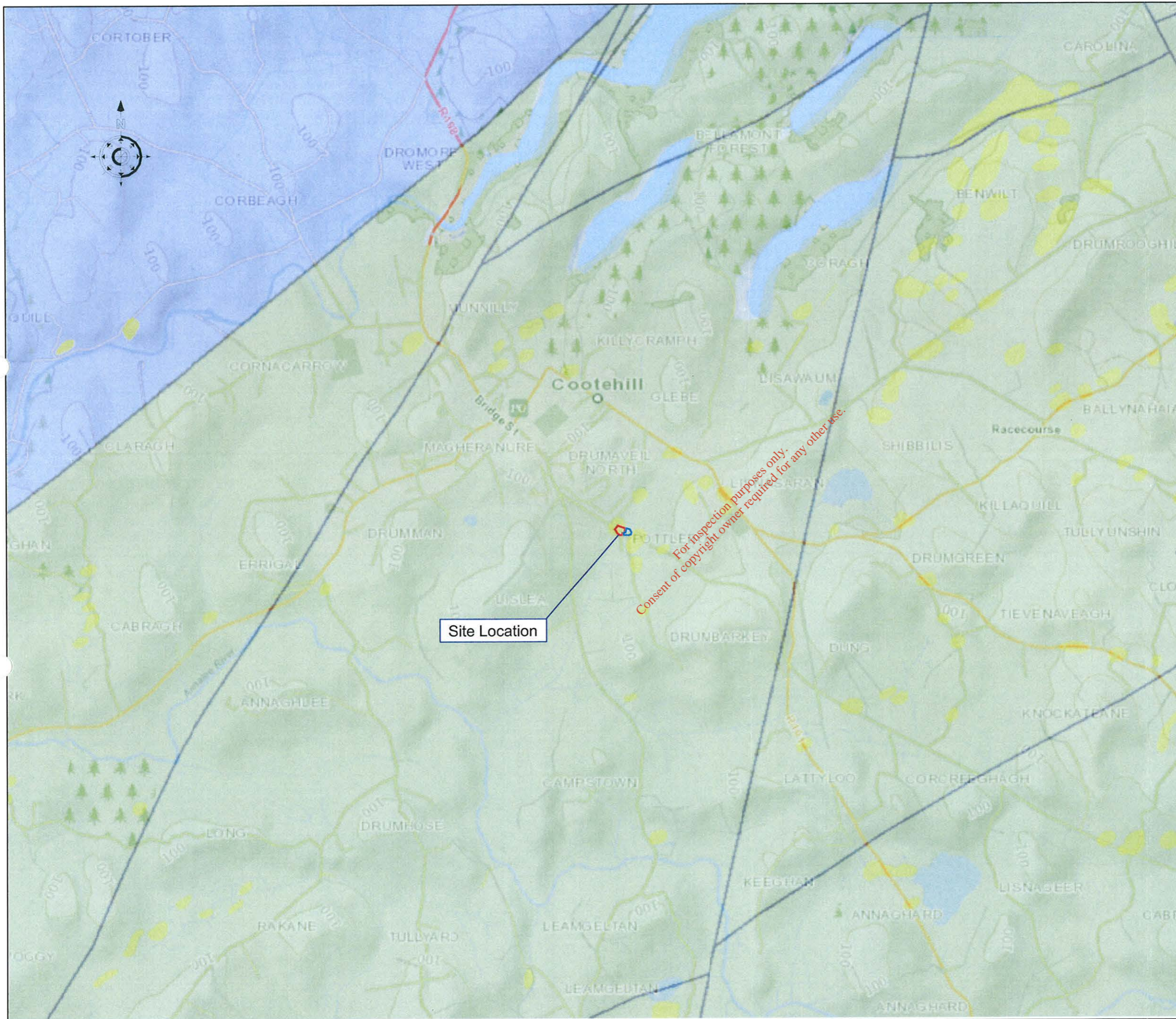
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PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTLEBOY, COOTEHILL, CO CAVAN

DRAWING TITLE
VUNERABILITY MAP

SCALE	DRAWN	CHECKED	APPROVED
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	DATE NOVEMBER 2014	DATE NOVEMBER 2014	DATE NOVEMBER 2014

DRAWING No.	REV.
14.248.107	



NOTES

Bedrock Faults 100k
National Draft Generalised Bedrock Map

- BV - Basalts and other Volcanic rocks
- CM - Cambrian Metasediments
- DDL - Dinantian Dolomitised Limestones
- DESSL - Dinantian early Sandstones, Shales and Limestones
- DKS - Devonian Killorcan type Sandstones
- DLIL - Dinantian Lower Impure Limestones
- DMSC - Dinantian Mudstones and Sandstones Cork Group
- MSSL - Dinantian Mixed Sandstones, Shales and Limestones
- DORS - Devonian Old Red Sandstones
- DPBL - Dinantian Pure Bedded Limestones
- DPUL - Dinantian Pure Unbedded Limestones
- DS - Dinantian Sandstones
- DSL - Dinantian Shales and Limestones
- DUIL - Dinantian Upper Impure Limestones
- GI - Granites and other Igneous Intrusive rocks
- NSA - Namurian Sandstones
- NSH - Namurian Shales
- NU - Namurian Undifferentiated
- OM - Ordovician Metasediments
- OV - Ordovician Volcanics
- PM - Precambrian Marbles
- POGS - Precambrian Quartzites, Gneisses and Schists
- PTMG - Permo Triassic Mudstones and Gypsum
- PTS - Permo Triassic Sandstones
- SMV - Silurian Metasediments and Volcanics
- WSA - Westphalian Sandstones
- WSH - Westphalian Shales

RBD Boundaries
 County Boundaries
 Watermark

REV.	DATE	DESCRIPTION	APPROVED
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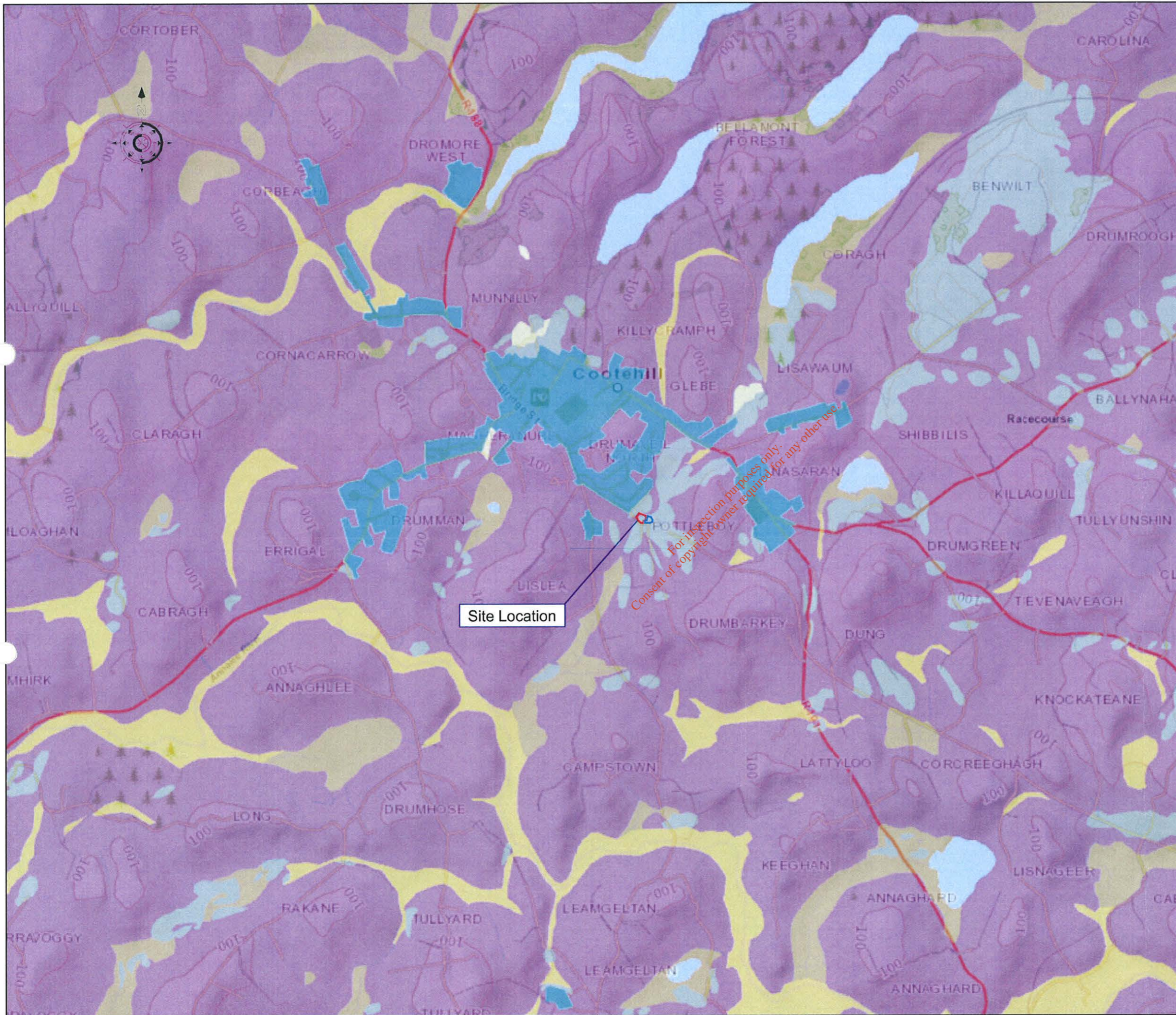
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PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT
OF EXISTING HISTORIC LANDFILL SITE AT
POTTEBOY, COOTEHILL, CO CAVAN

DRAWING TITLE
BEDROCK MAP

SCALE	DRAWN	CHECKED	APPROVED
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	DATE NOVEMBER 2014	DATE NOVEMBER 2014	DATE NOVEMBER 2014

DRAWING No.	REV.
14.248.108	



NOTES

RBD Subsoils

- Alluvium
- Beach sands and gravels
- Bedrock outcrop and subcrop
- Esker sands and gravels
- Glaciofluvial sands and gravels
- Lake sediments
- Made ground
- Marine/estuarine silts and clays
- Marsh
- Peat
- Scree
- Till derived chiefly from Devonian sandstones
- Till derived chiefly from Lower Palaeozoic rocks
- Till derived chiefly from Namurian rocks
- Till derived chiefly from granite
- Till derived chiefly from limestone
- Till derived chiefly from metamorphic rocks
- Till derived from metamorphic rocks
- Till derived from mixed Devonian and Carboniferous rocks
- Water
- Windblown sands
- RBD Boundaries
- County Boundaries
- Watermark

REV.	DATE	DESCRIPTION	APPROVED

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PROJECT TITLE
 SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTLEBOY, COOTEHILL, CO CAVAN

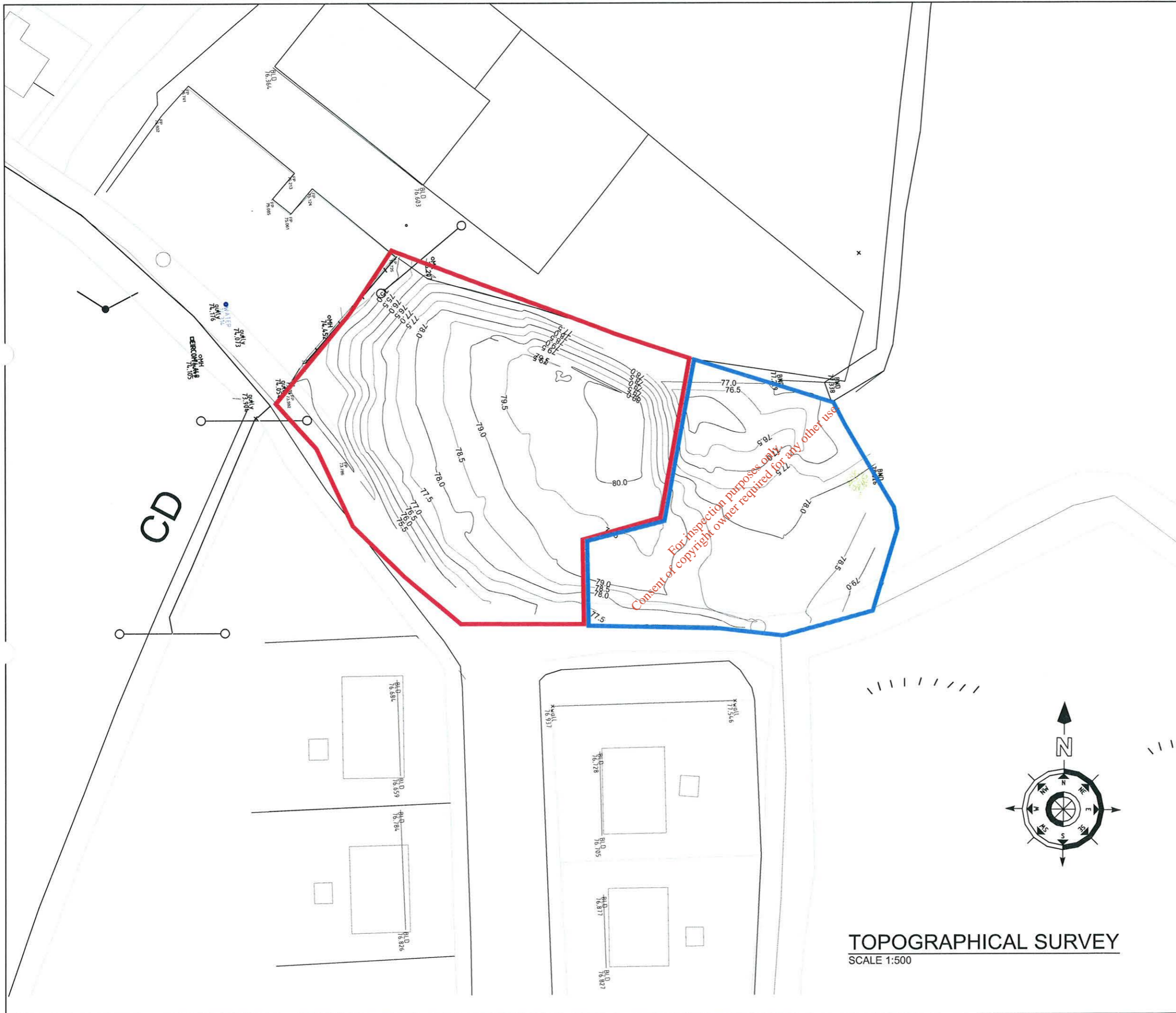
DRAWING TITLE
 SUBSOIL MAP

SCALE	DRAWN	CHECKED	APPROVED
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	DATE NOVEMBER 2014	DATE NOVEMBER 2014	DATE NOVEMBER 2014

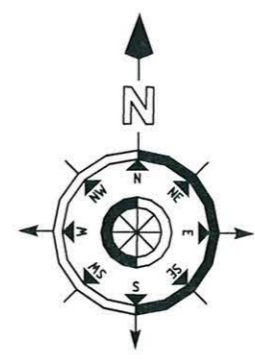
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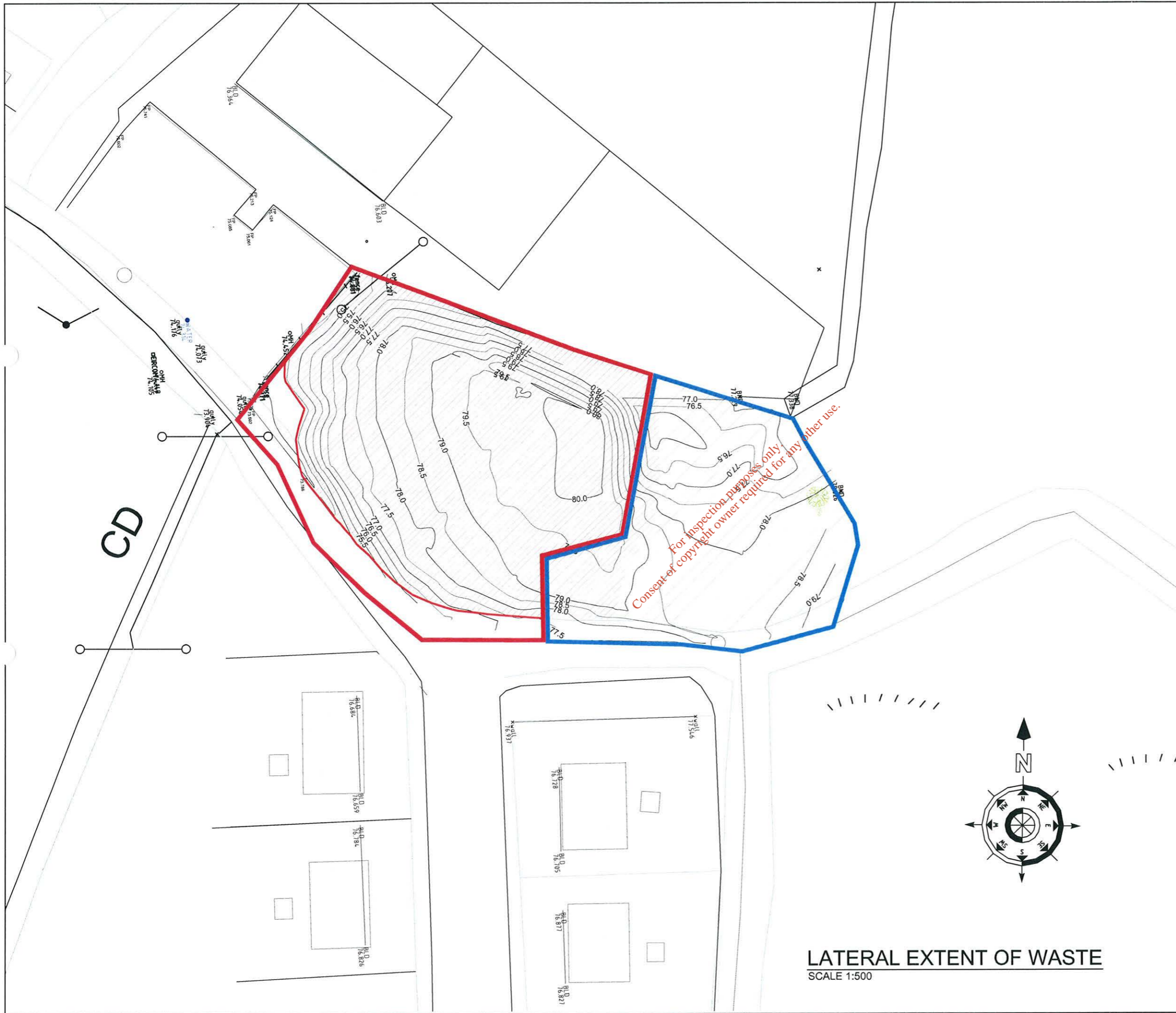
Site Location



TOPOGRAPHICAL SURVEY
SCALE 1:500



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CLIENT CAVAN COUNTY COUNCIL			
PROJECT TITLE SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTEBOY COOTEHILL CO CAVAN			
DRAWING TITLE TOPOGRAPHICAL SURVEY			
SCALE 1:500	DRAWN DARRAGHROWAN DATE NOVEMBER 2014	CHECKED ANGELA MC DERMOTT DATE NOVEMBER 2014	APPROVED NEVIN TRAYNOR DATE NOVEMBER 2014
DRAWING No. 14.248.110			REV.



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LATERAL EXTENT OF WASTE
SCALE 1:500

NOTES

- WASTE
- NO WASTE
- COUNCIL SITE BOUNDARY IN RED
- SITE BOUNDARY OF ADJOINING LAND OWNER IN BLUE

1700m² SUSPECTED AREA OF WASTE

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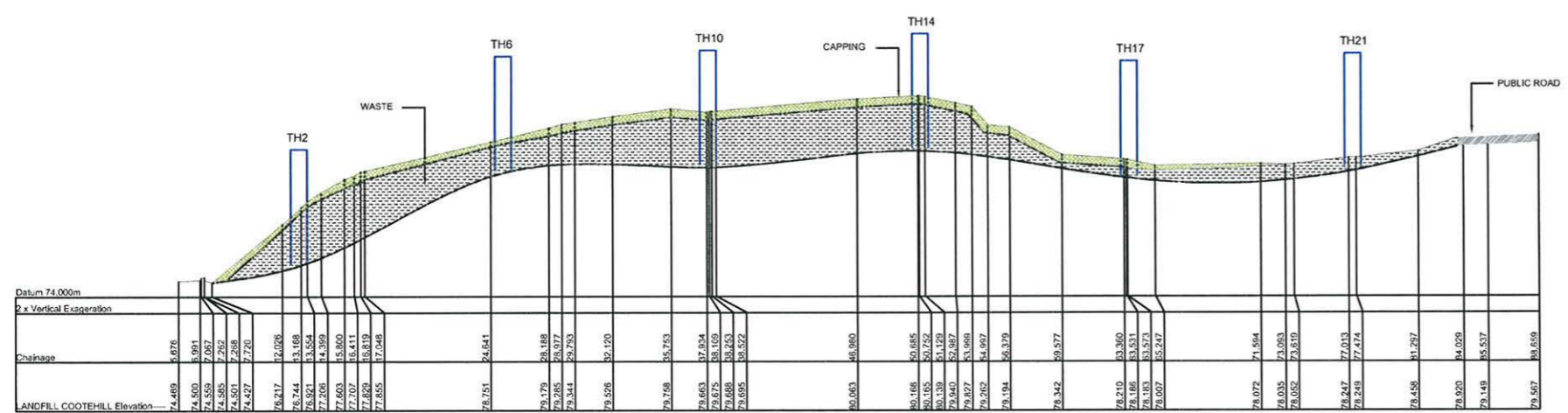
PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTLEBOY COOTEHILL CO CAVAN

DRAWING TITLE
LATERAL EXTEND OF WASTE DEPOSITED ON THE SITE

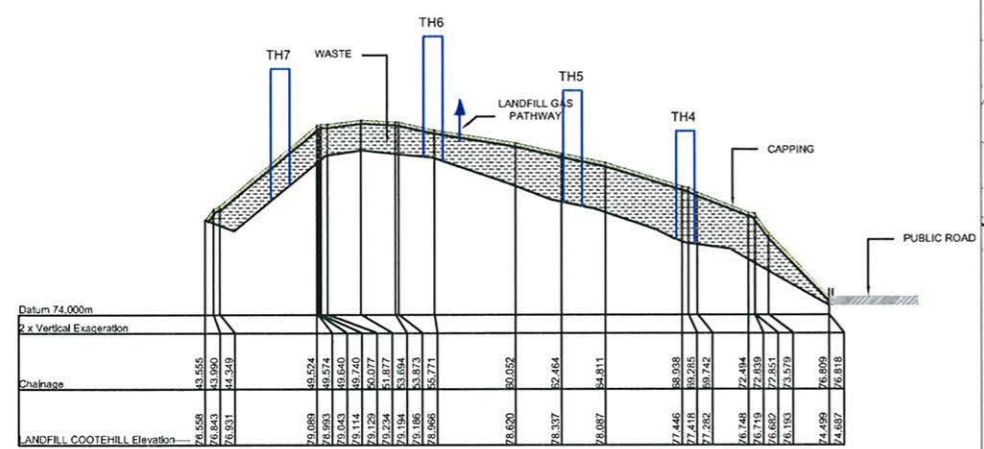
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	DATE NOVEMBER 2014	DATE NOVEMBER 2014	DATE NOVEMBER 2014

DRAWING No. 14.248.111	REV.
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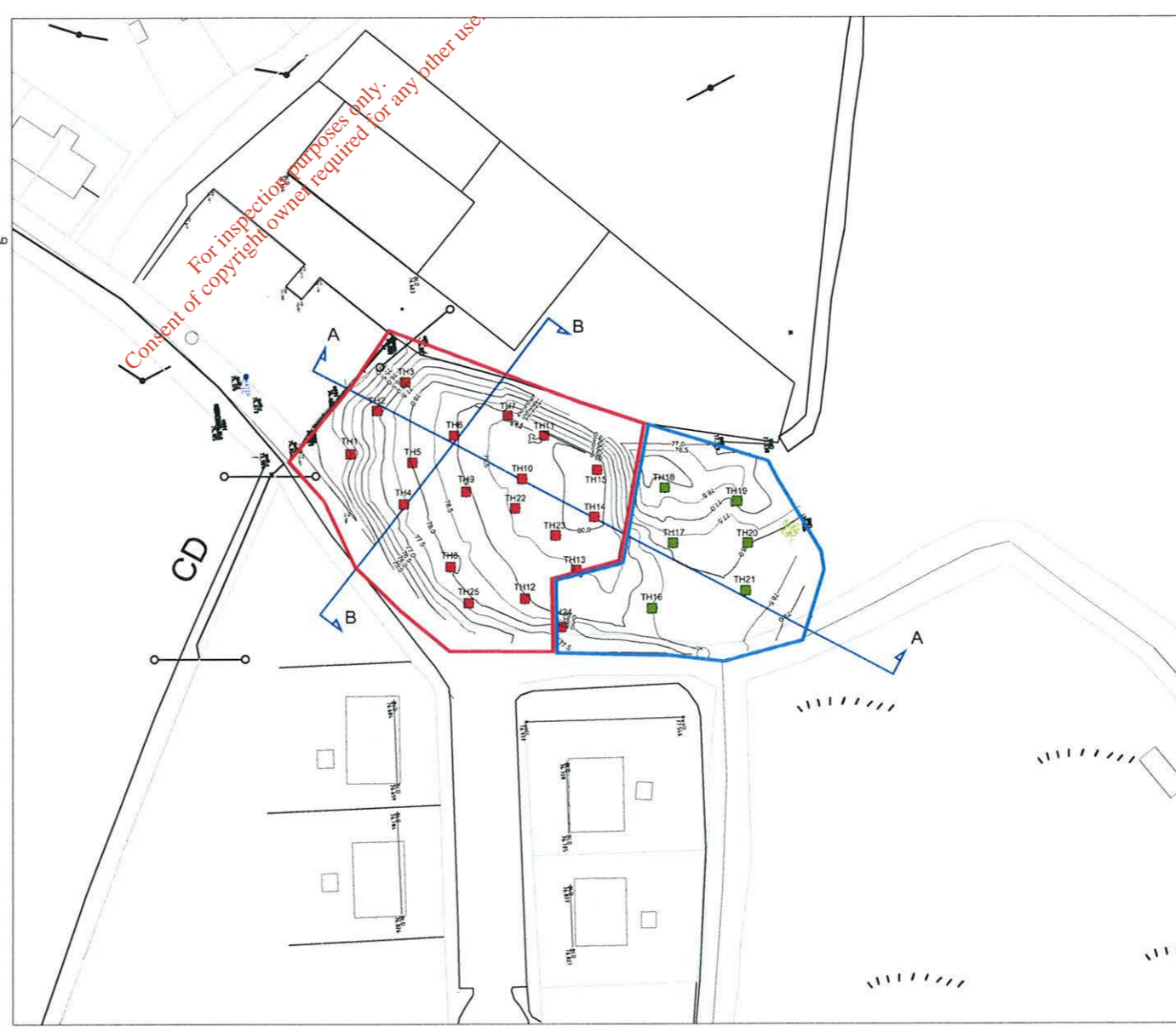
NOTES



SECTION A-A
SCALE 1:200




SECTION B-B
SCALE 1:200



SITE LAYOUT KEY
SCALE 1:500

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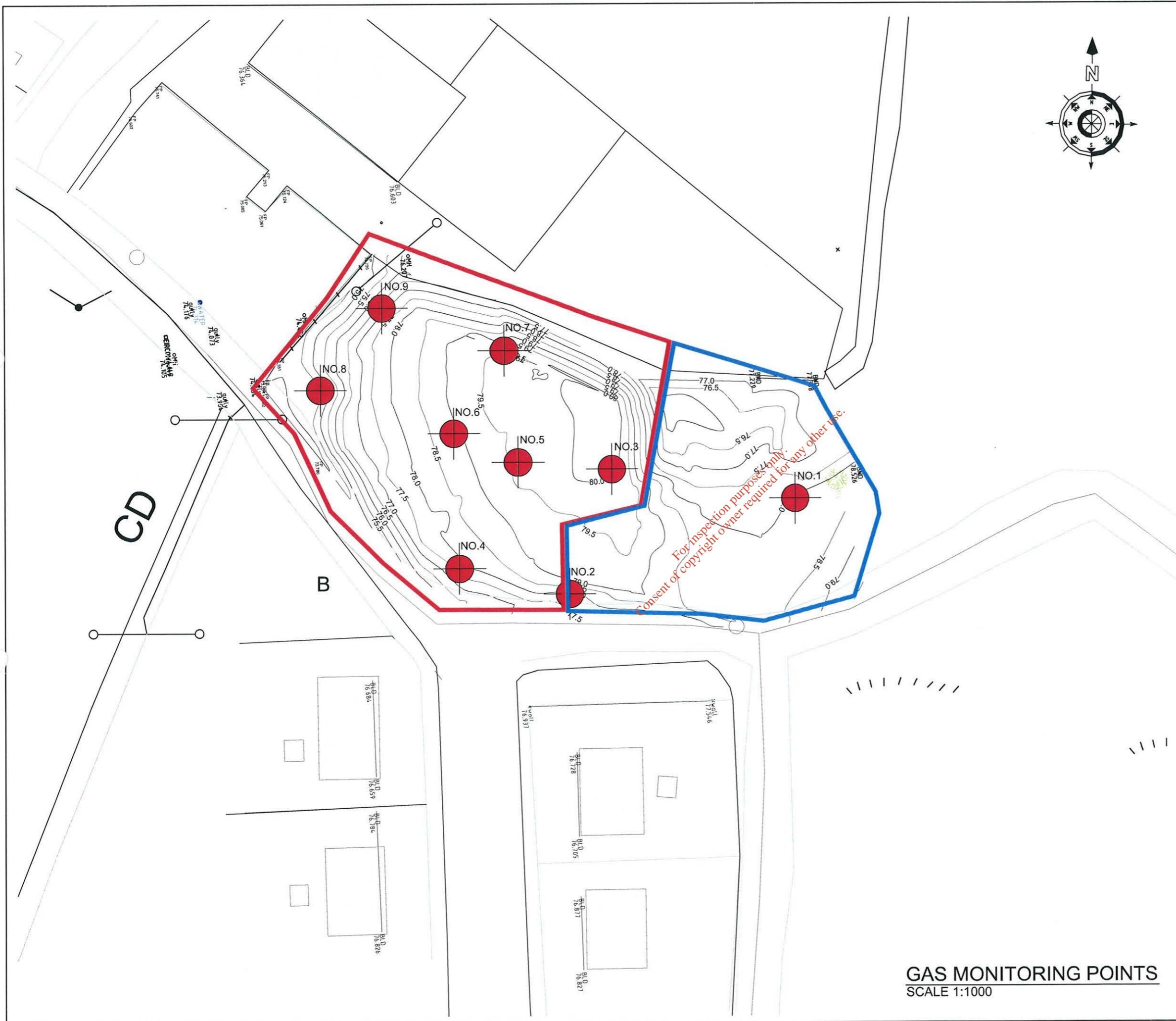
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CAVAN COUNTY COUNCIL

PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTLEBOY COOTEHILL CO CAVAN

DRAWING TITLE
CROSS SECTIONS OF WASTE DEPOSITED ON THE SITE

SCALE	DRAWN	CHECKED	APPROVED
1:200	DARRAGHROWAN	ANGELAC DERMOTT	NEVIN TRAYNOR
	DATE	DATE	DATE
	NOVEMBER 2014	NOVEMBER 2014	NOVEMBER 2014

DRAWING No. 14.248.112




 LOCATION OF GAS MONITORING STAND PIPES

NOTES

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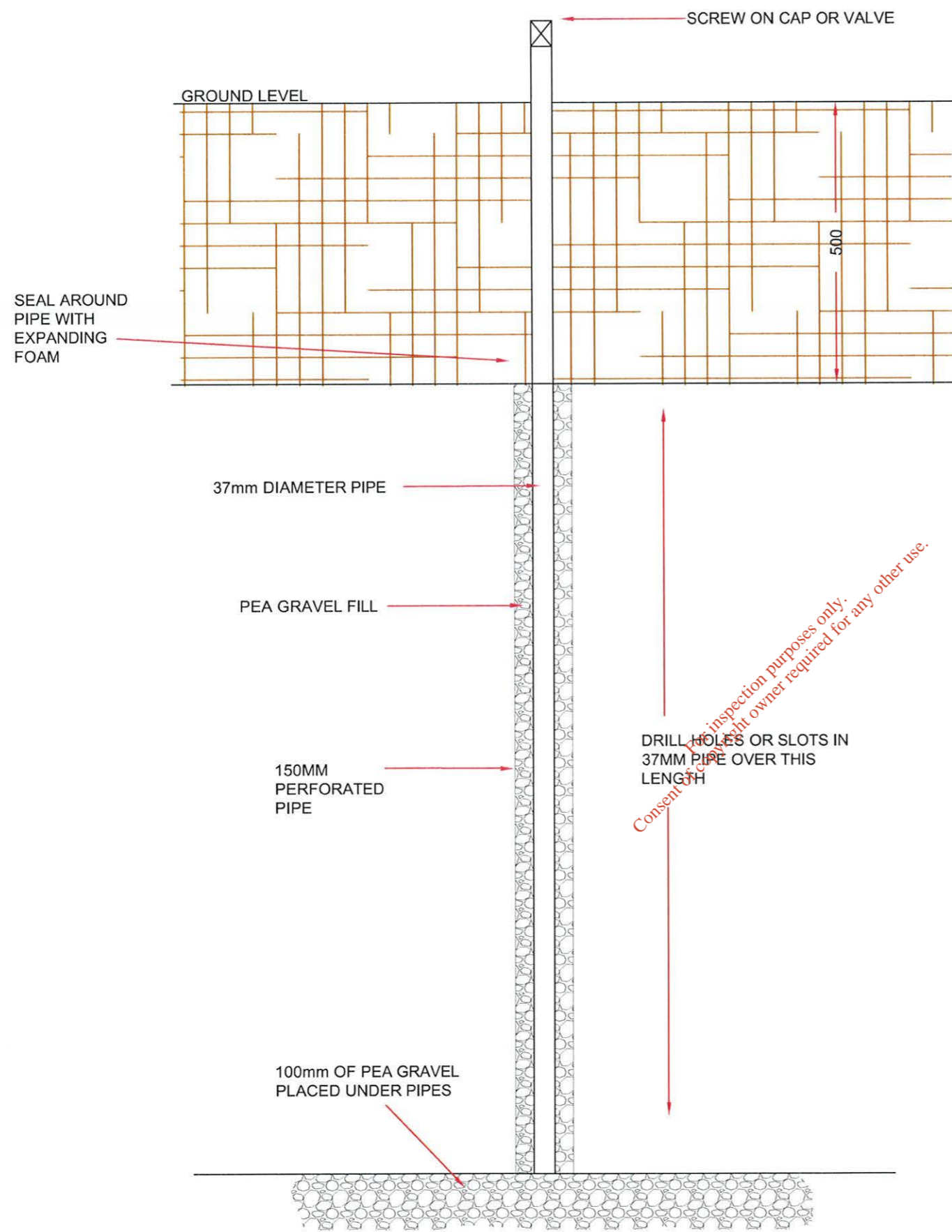
PROJECT TITLE
 SITE INVESTIGATION & RISK ASSESSMENT
 OF EXISTING HISTORIC LANDFILL SITE AT
 POTTLEBOY, COOTEHILL, CO. CAVAN

DRAWING TITLE
 GAS MONITORING LOCATIONS

SCALE	DRAWN	CHECKED	APPROVED
1:500	ANGELA MC DERMOTT	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE	DATE	DATE
	NOVEMBER 2014	NOVEMBER 2014	NOVEMBER 2014

DRAWING No.	REV.
14.248.113	

GAS MONITORING POINTS
 SCALE 1:1000

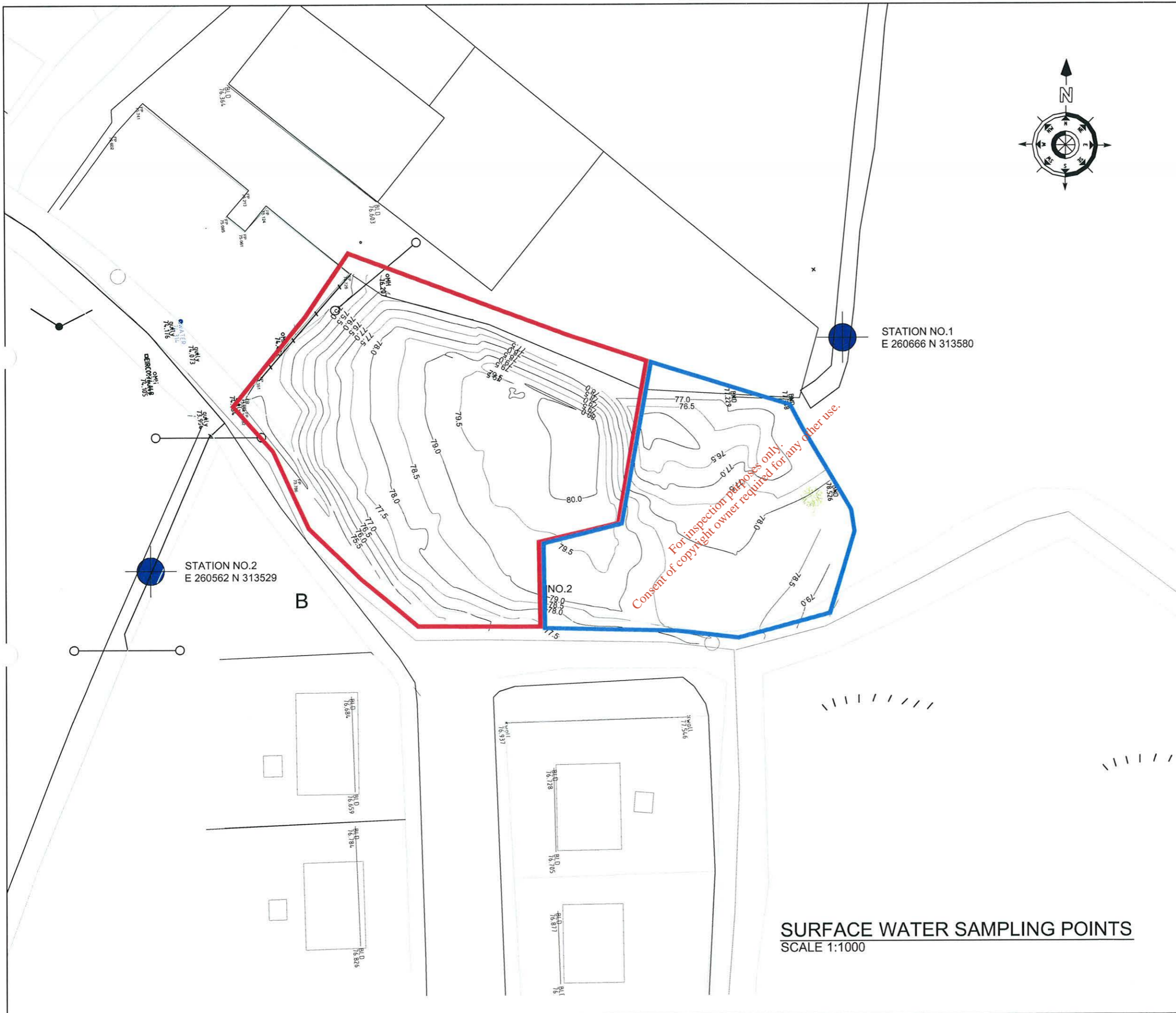


INSTALL 150MM PERFORATED PIPE IN TRIAL PIT AND BACK FILL TO WITHIN 500MM OF THE SURFACE.

STAND 37MM PIPE INTO 100MM PIPE AND FILL WITH PEA GRAVEL.

BACK FILL REMAINDER OF TRIAL PIT WITH EXTRACTED MATERIAL BACK AROUND 37MM PIPE TO FORM A SEAL

NOTES			
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		BELTURBET BUSINESS PARK CREENY BELTURBET Co. CAVAN TEL: 049 9522236 E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808	
CLIENT CAVAN COUNTY COUNCIL			
PROJECT TITLE SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTLEBOT, COOTEHILL, CO. CAVAN			
DRAWING TITLE CROSS SECTION OF STAND PIPE FOR GAS MONITORING			
SCALE N.T.S.	DRAWN ANGELA MC DERMOTT DATE NOVEMBER 2014	CHECKED ANGELA MC DERMOTT DATE NOVEMBER 2014	APPROVED NEVIN TRAYNOR DATE NOVEMBER 2014
DRAWING No. 14.248.114			REV.



NOTES

 SURFACE WATER SAMPLE LOCATIONS

REV.	DATE	DESCRIPTION	APPROVED
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CLIENT
CAVAN COUNTY COUNCIL

PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT
OF EXISTING HISTORIC LANDFILL SITE AT
POTTEBOY COOTEHILL CO CAVAN

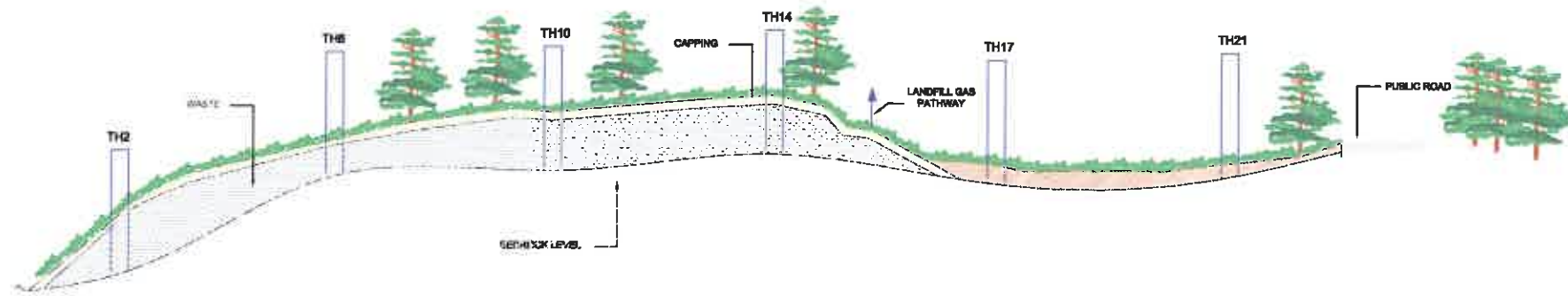
DRAWING TITLE
SURFACE WATER SAMPLING LOCATIONS

SCALE	DRAWN	CHECKED	APPROVED
1:500	DARRAGHROWAN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE	DATE	DATE
	NOVEMBER 2014	NOVEMBER 2014	NOVEMBER 2014

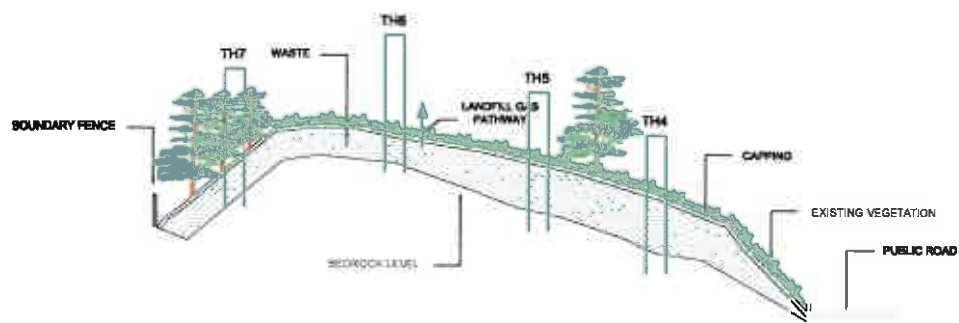
DRAWING No.	REV.
14.248.117	

SURFACE WATER SAMPLING POINTS
SCALE 1:1000

NOTES



CROSS SECTION A-A
SCALE 1:200



CROSS SECTION B-B
SCALE 1:200

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SITE LAYOUT KEY
SCALE 1:500

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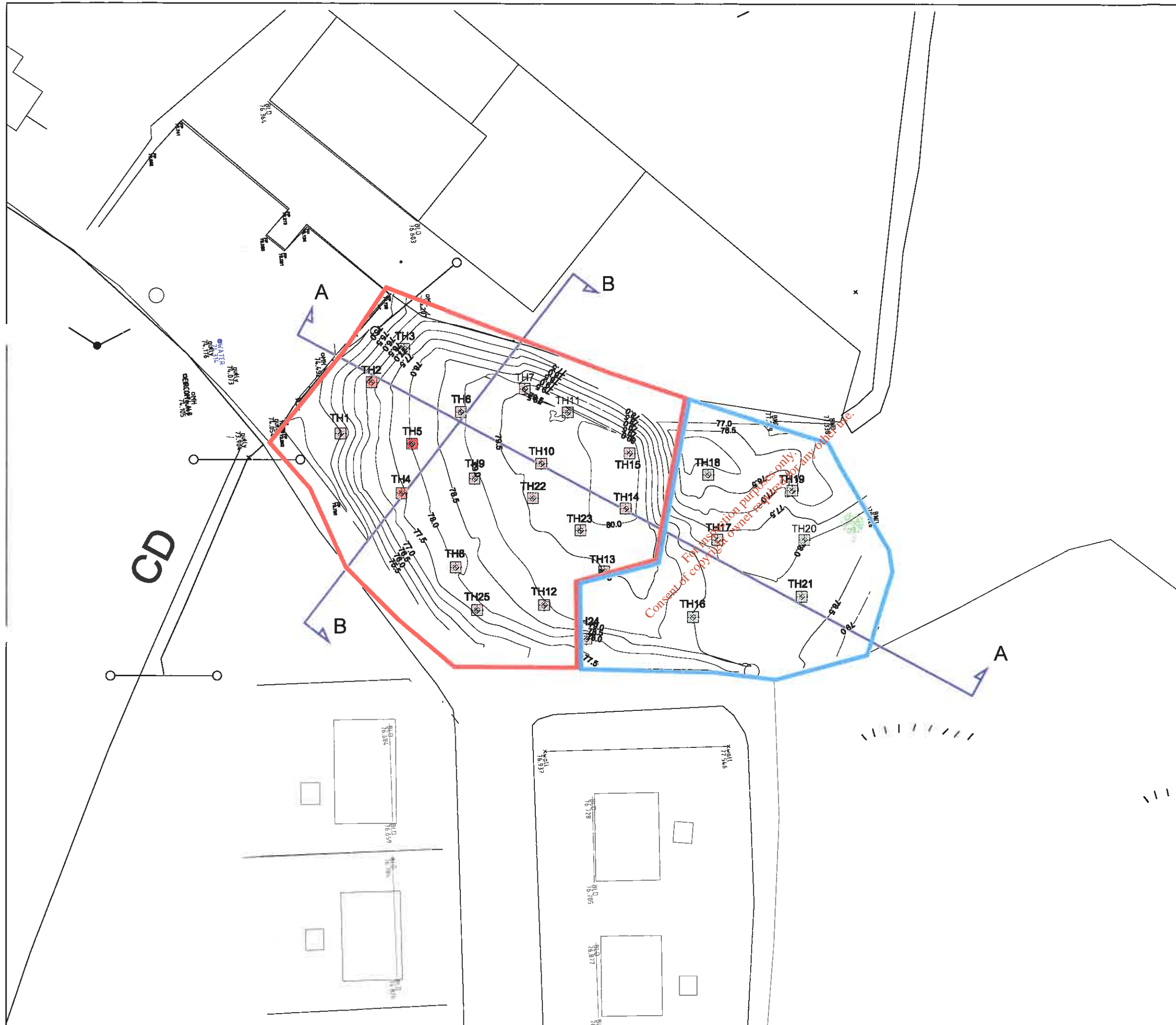
CLIENT
CAVAN COUNTY COUNCIL

PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTLEBOY COOTEHILL CO CAVAN

DRAWING TITLE
REVISED CONCEPT MODEL OF WASTE DEPOSITED ON THE SITE

SCALE	DRAWN	CHECKED	APPROVED
1:200	DARRAGH ROWAN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE	DATE	DATE
	NOVEMBER 2014	NOVEMBER 2014	NOVEMBER 2014

DRAWING No.	REV.
14.248.116	



NOTES

- TRIAL HOLES CONTAINING WASTE
- TRIAL HOLES CONTAINING NO WASTE
- COUNCIL SITE BOUNDARY IN RED
- SITE BOUNDARY OF ADJOINING LAND OWNER IN BLUE

1700m² SUSPECTED AREA OF WASTE

REV.	DATE	DESCRIPTION	APPROVED
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CAVAN COUNTY COUNCIL

PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT POTTLEBOY COOTEHILL CO CAVAN

DRAWING TITLE
TRIAL HOLE LOCATIONS

SCALE	DRAWN	CHECKED	APPROVED
1:500	DARRASHROWAN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE	DATE	DATE
	NOVEMBER 2014	NOVEMBER 2014	NOVEMBER 2014

DRAWING No.	REV.
14.248.115	