TIER 2

ENVIRONMENTAL RISK ASSESSMENT

APPENDIX F

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DRAWING NO.S 13.120.100 - 13.120.116

Traynor Environmental Ltd.

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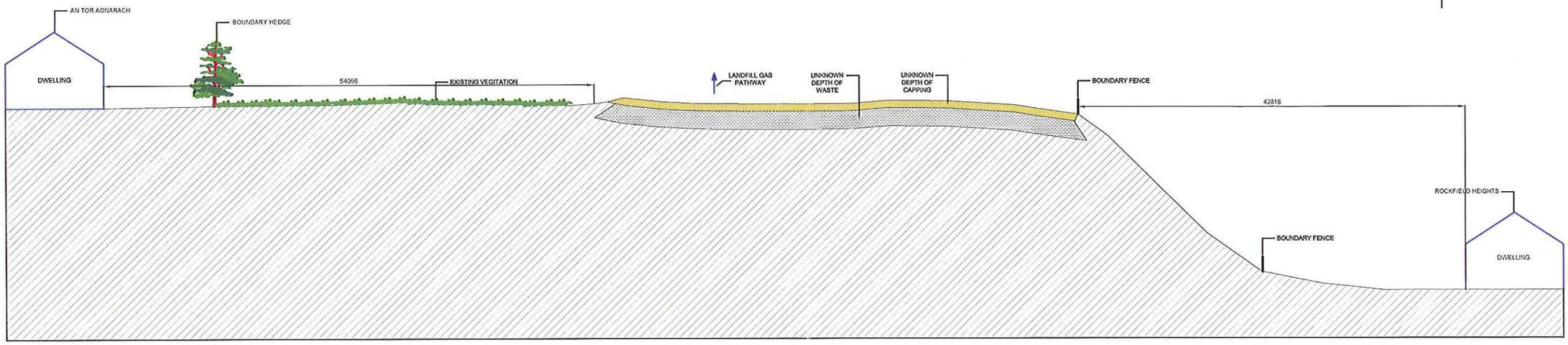
NOTES



CONCEPT MODEL SECTION A-A
SCALE 1:250

LEGEND
LANDFILL WASTE SOURCE
CAPPING

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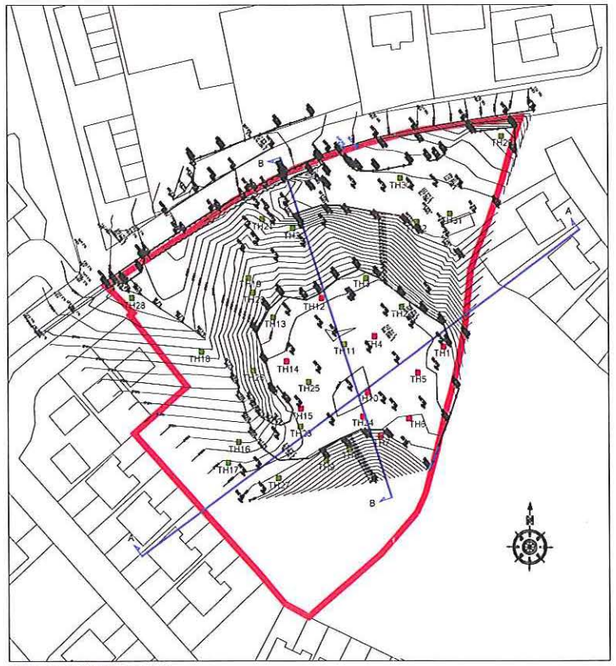

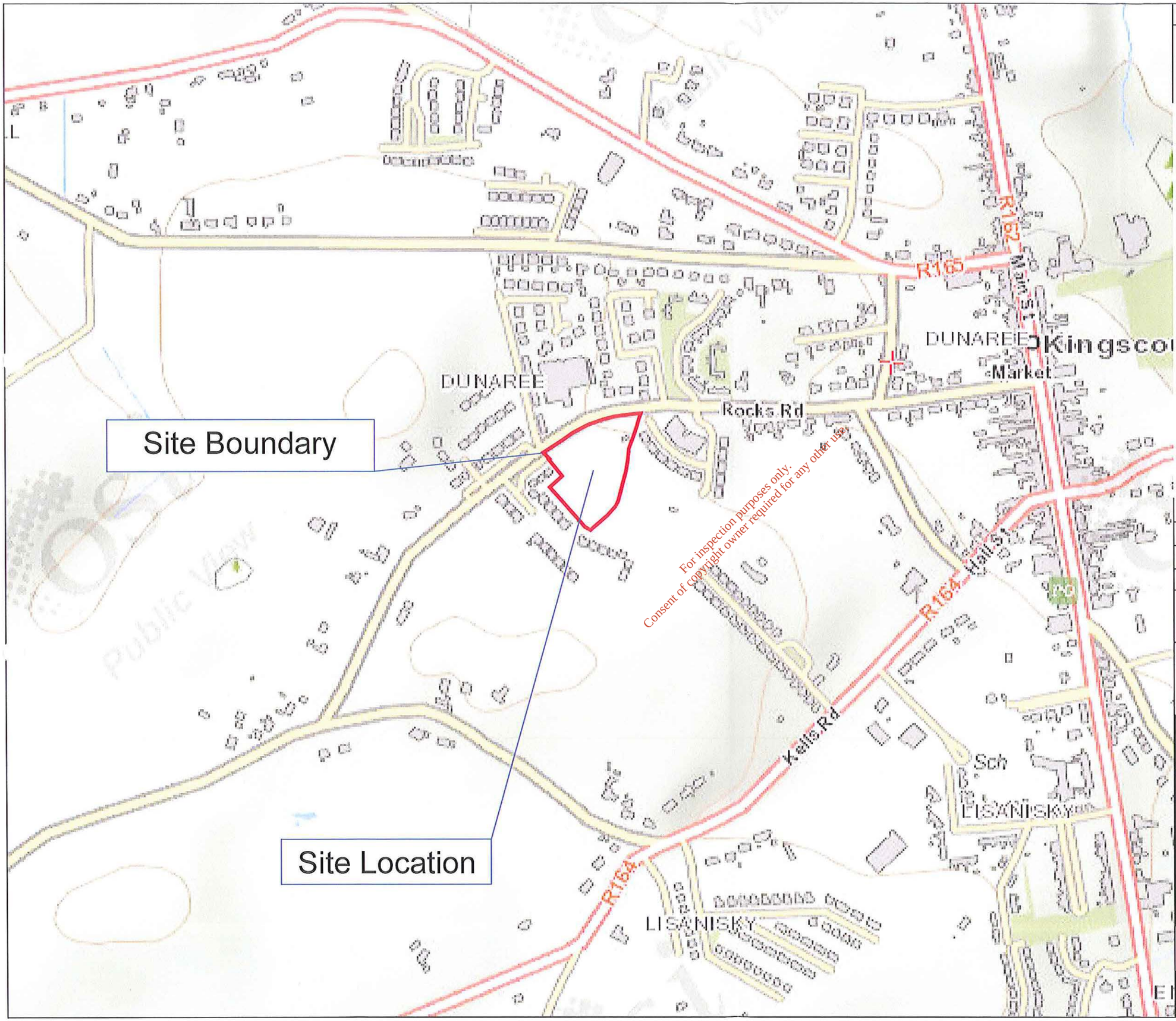

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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808

CLIENT
CAVAN COUNTY COUNCIL

PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT DUNAREE, KINGSCOURT, CO CAVAN

DRAWING TITLE
SITE LOCATION MAP

SCALE	DRAWN	CHECKED	APPROVED
1:5000	LIAM MC ELGUNN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

DRAWING No. 13.120.101
REV.

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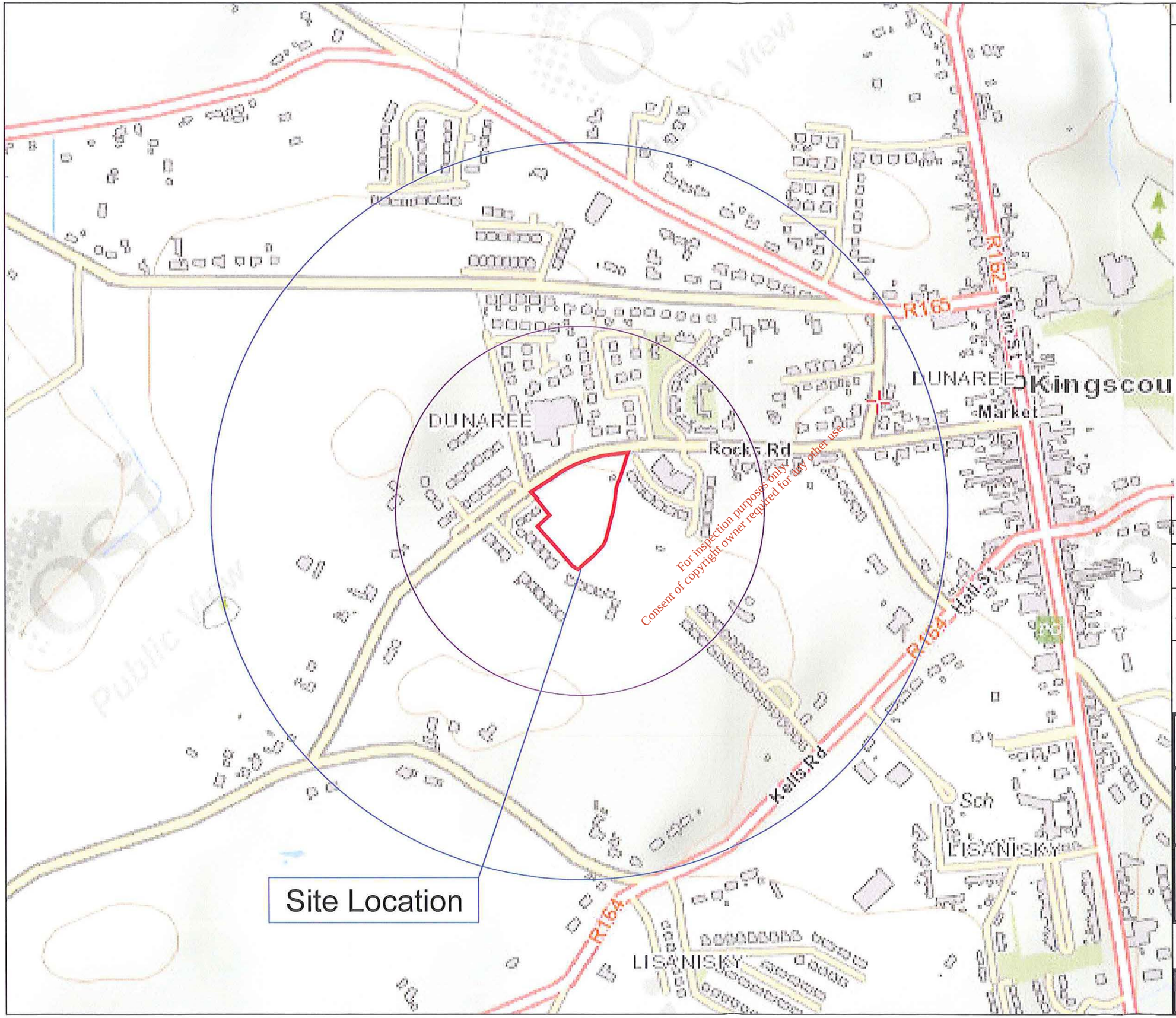

NOTES

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

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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808

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PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT DUNAREE, KINGSCOURT, CO CAVAN

DRAWING TITLE
POTENTIAL RECEPTORS IN THE VICINITY OF THE SITE

SCALE	DRAWN	CHECKED	APPROVED
1:5000	LIAM MC ELGUNN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

DRAWING No.	REV.
13.120.102	

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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
FAX: 049 9522808
E-MAIL: nevin@traynorenvironmental.com

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PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT DUNAREE, KINGSCOURT, CO CAVAN

DRAWING TITLE
2000 - AERIAL MAP

SCALE	DRAWN	CHECKED	APPROVED
1:5000	LIAM MC ELGUNN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

DRAWING No.	REV.
13.120.103	

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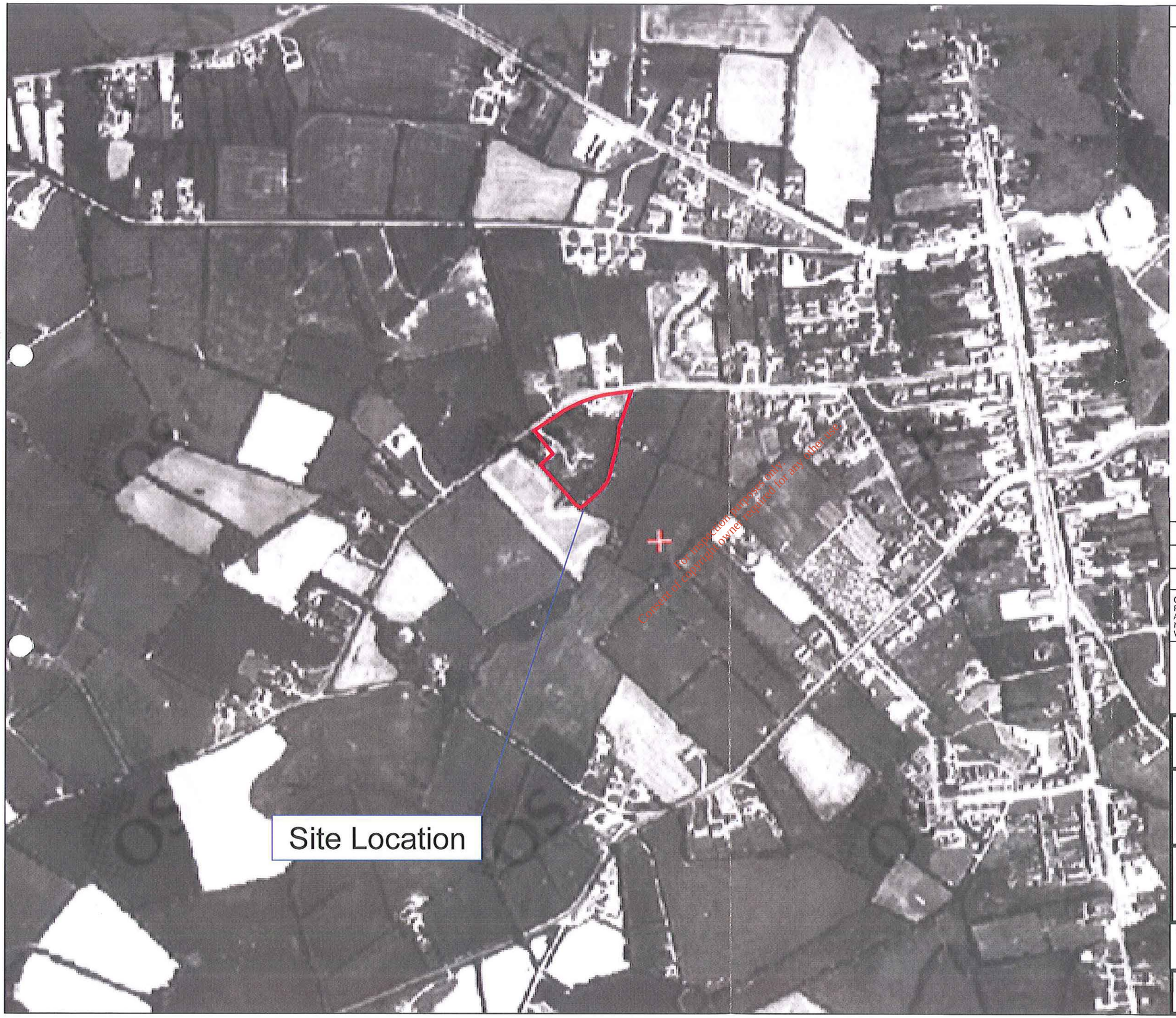

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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808

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DRAWING TITLE
ORTHO 1995
BLACK AND WHITE AERIAL PHOTOGRAGH

SCALE	DRAWN	CHECKED	APPROVED
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	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

DRAWING No.	REV.
13.120.104	

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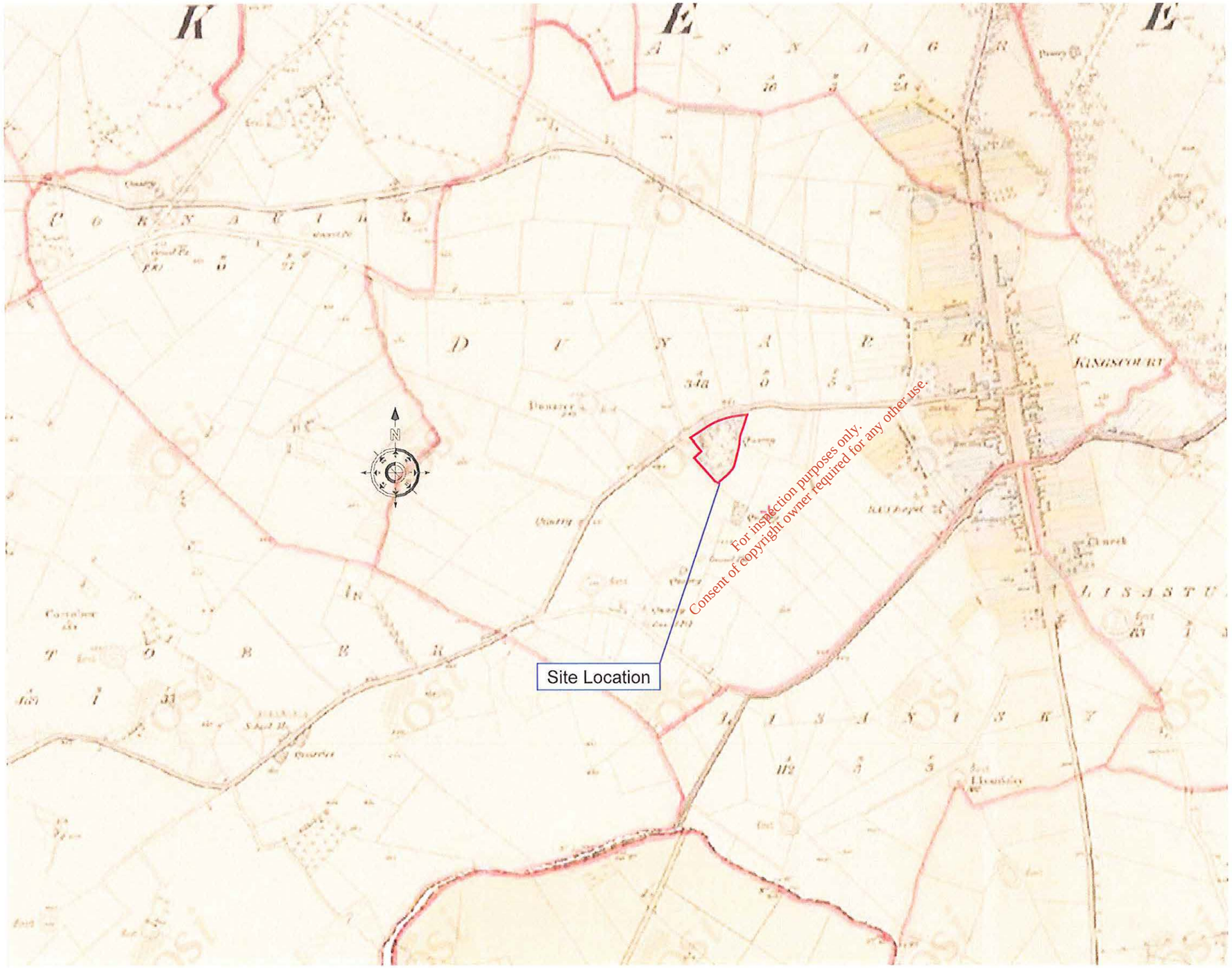

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25 INCH MAPPING SERIES (1837 - 1842)
SCALE 1:10000

NOTES

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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808

CLIENT
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PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT DUNAREE, KINGSCOURT, CO CAVAN

DRAWING TITLE
HISTORIC MAPS
(1837 - 1842)

SCALE	DRAWN	CHECKED	APPROVED
1:10000	LIAM MC ELGUNN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

DRAWING No. 13.120.105A
REV.

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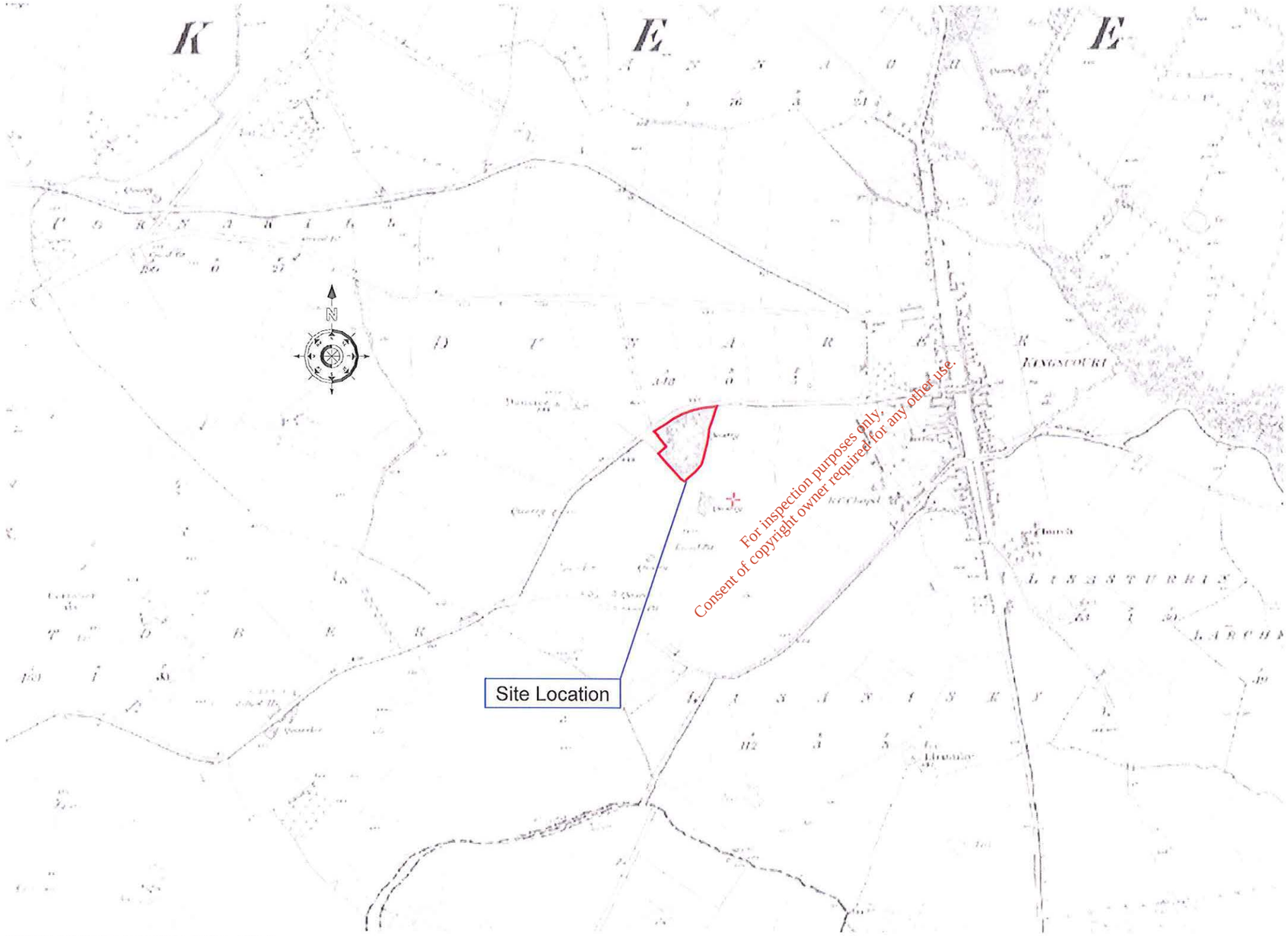

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6 INCH MAPPING SERIES (1888 - 1913)
SCALE 1:10000

NOTES

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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808

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PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT DUNAREE, KINGSCOURT, CO CAVAN

DRAWING TITLE
HISTORIC MAPS
(1888 - 1913)

SCALE	DRAWN	CHECKED	APPROVED
1:10000	LIAM MC ELGUNN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

DRAWING No. 13.120.105B
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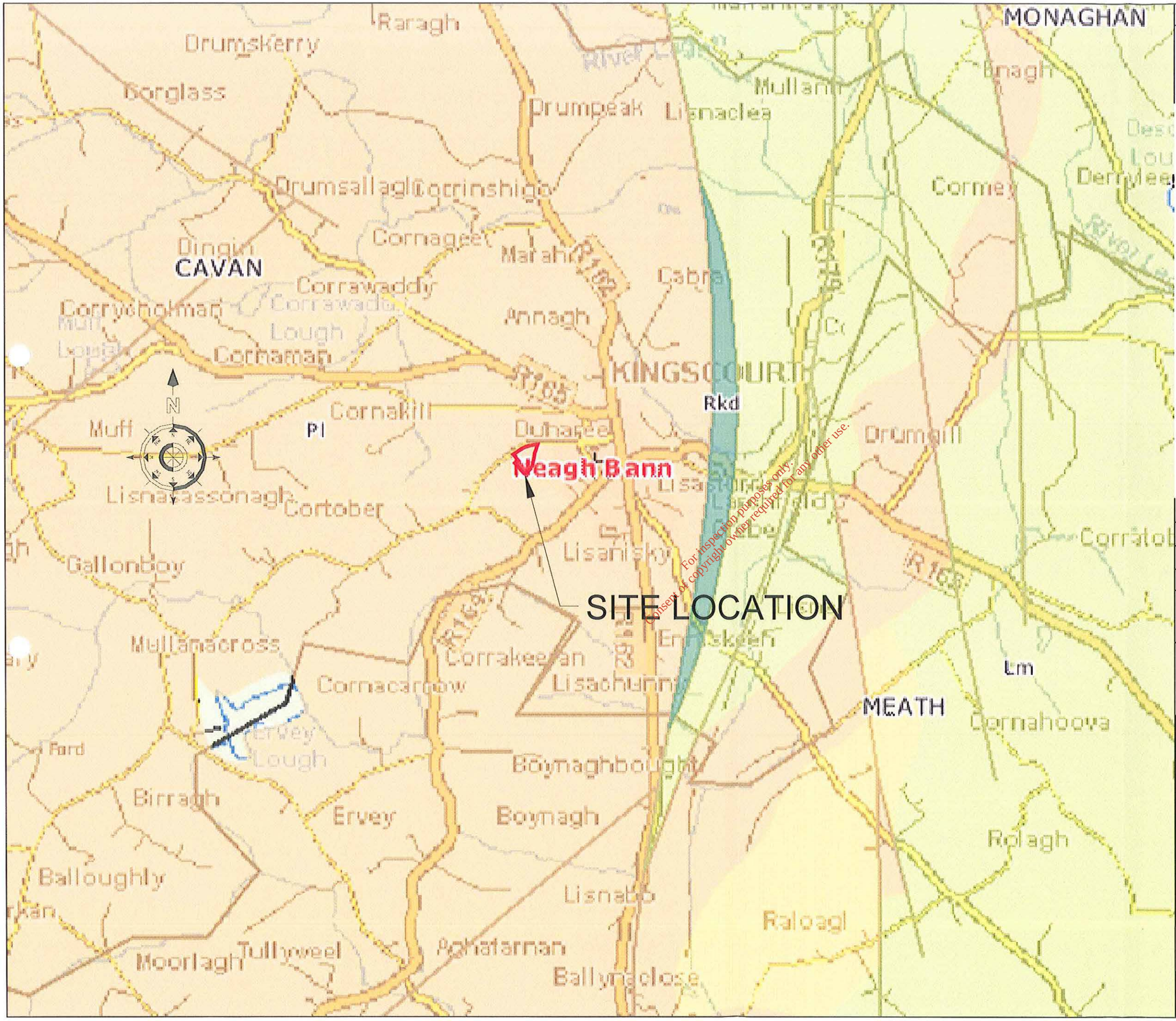

NOTES

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
- Ll - 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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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808

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DRAWING TITLE
GROUNDWATER MAP

SCALE	DRAWN	CHECKED	APPROVED
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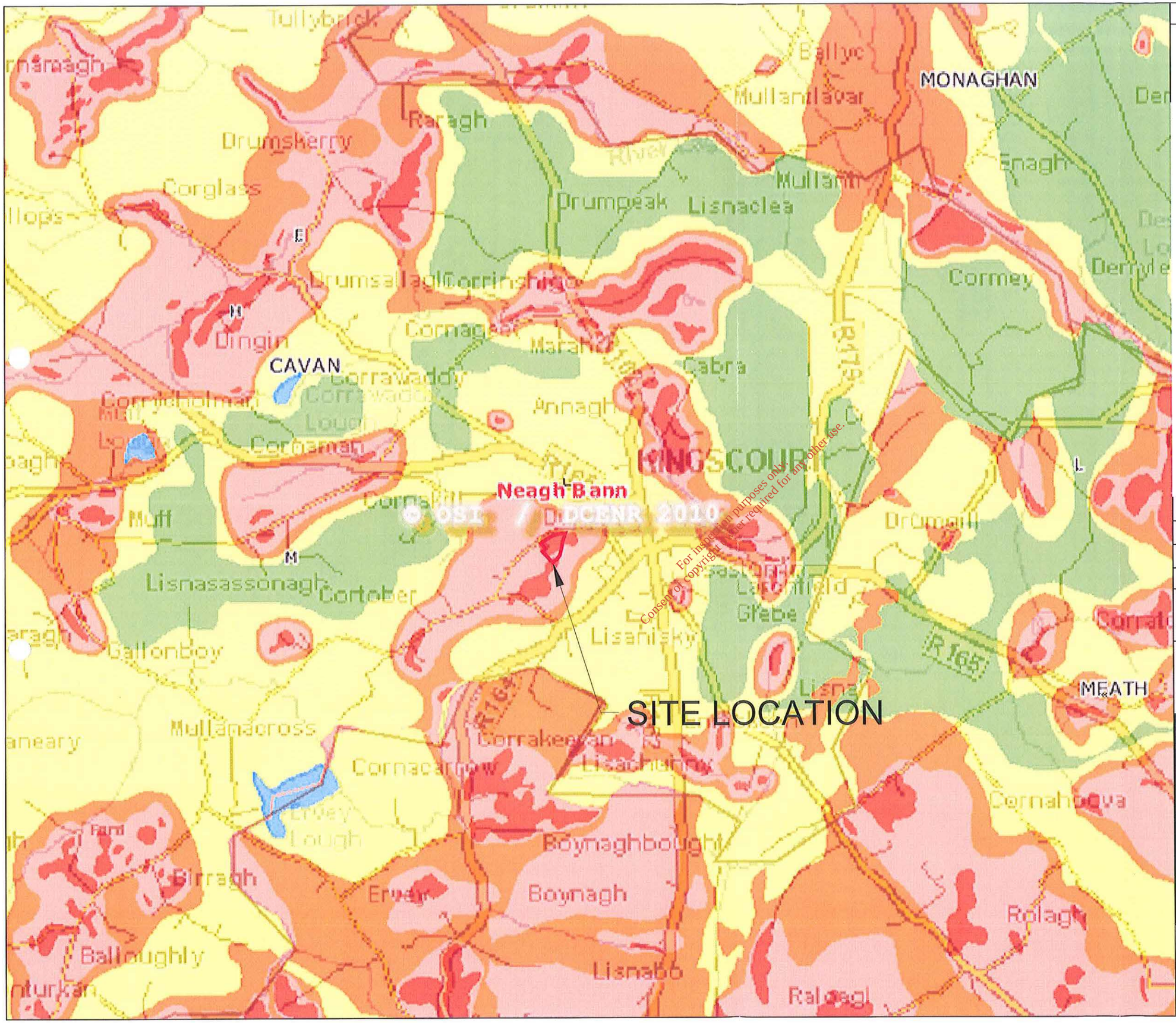

NOTES

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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CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808

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DRAWING TITLE
VUNERABILITY MAP

SCALE	DRAWN	CHECKED	APPROVED
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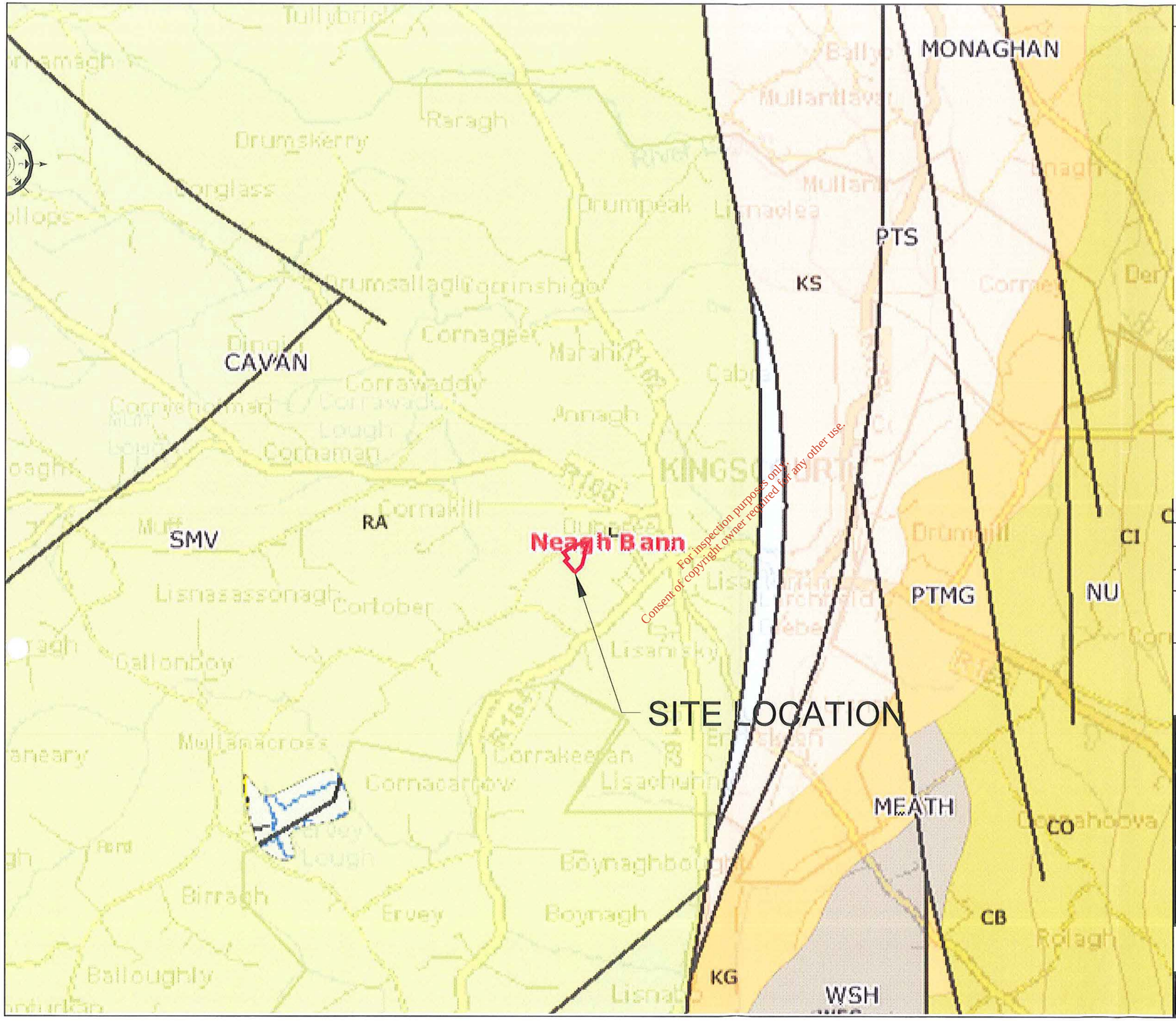

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NOTES

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 Kiltorcan 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
- GII - Granites and other Igneous Intrusive rocks
- NSA - Namurian Sandstones
- NSH - Namurian Shales
- NU - Namurian Undifferentiated
- OM - Ordovician Metasediments
- OV - Ordovician Volcanics
- PM - Precambrian Marbles
- PQGS - 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

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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808

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SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT DUNAREE, KINGSCOURT, CO CAVAN

DRAWING TITLE
BEDROCK MAP

SCALE	DRAWN	CHECKED	APPROVED
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13.120.108	

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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

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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808

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PROJECT TITLE
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DRAWING TITLE
SUBSOIL MAP

SCALE	DRAWN	CHECKED	APPROVED
1:20000	LIAM MC ELGUNN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

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13.120.109	

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TOPOGRAPHICAL SURVEY
SCALE 1:1000

NOTES

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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808

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DRAWING TITLE
TOPOGRAPHICAL SURVEY

SCALE	DRAWN	CHECKED	APPROVED
1:1000	LIAM MC ELGUNN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

DRAWING No.	REV.
13.120.110	

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LATERAL EXTENT OF WASTE
SCALE 1:1000

NOTES

WASTE

NO WASTE

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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
E-MAIL: nevin@traynorenvironmental.com
TEL: 049 9522238
FAX: 049 9522808

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PROJECT TITLE
SITE INVESTIGATION & RISK ASSESSMENT OF EXISTING HISTORIC LANDFILL SITE AT DUNAREE, KINGSCOURT, CO CAVAN

DRAWING TITLE
LATERAL EXTEND OF WASTE DEPOSITED ON THE SITE

SCALE	DRAWN	CHECKED	APPROVED
1:1000	LIAM MC ELGUNN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

DRAWING No.	REV.
13.120.111	

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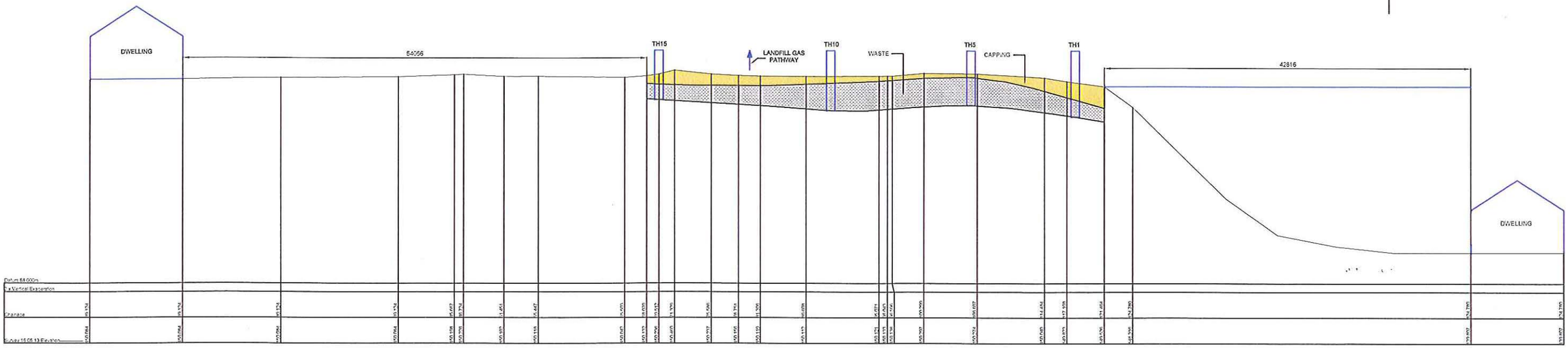
NOTES



SECTION A-A
SCALE 1:250

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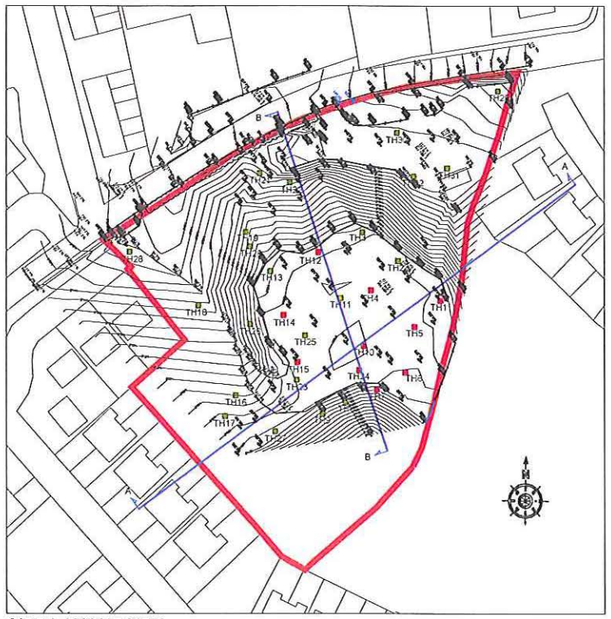
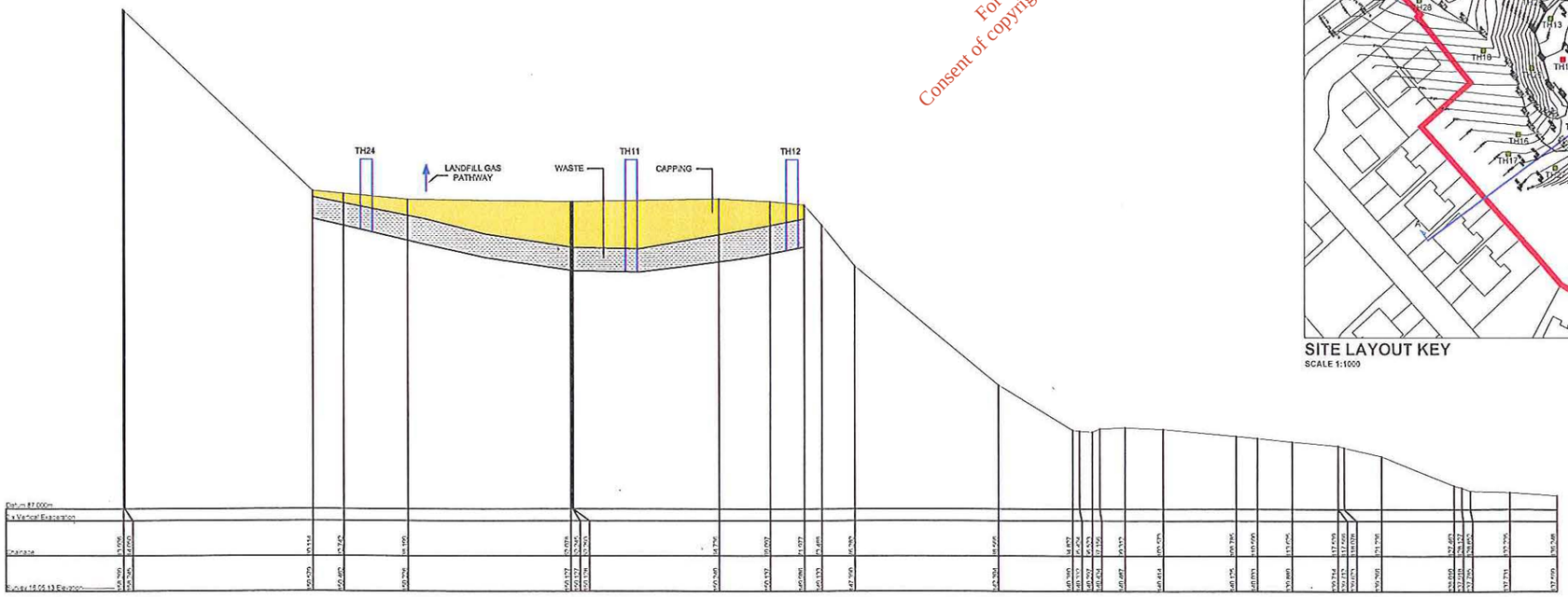
LEGEND

LANDFILL WASTE SOURCE

CAPPING



SITE LAYOUT KEY
SCALE 1:1000



SECTION B-B
SCALE 1:250

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DRAWING TITLE
CROSS SECTIONS OF WASTE DEPOSITED ON THE SITE

SCALE	DRAWN	CHECKED	APPROVED
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	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

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13.120.112	

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GAS MONITORING POINTS
SCALE 1:1000

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NOTES

LOCATION OF GAS MONITORING STAND PIPES

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Traynor Environmental Ltd.
BELTURBET BUSINESS PARK
CREENY BELTURBET
Co. CAVAN
TEL: 049 9522236
E-MAIL: nevin@traynorenvironmental.com FAX: 049 9522808

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DRAWING TITLE
GAS MONITORING LOCATIONS

SCALE	DRAWN	CHECKED	APPROVED
1:1000	LIAM MC ELGUNN	ANGELA MC DERMOTT	NEVIN TRAYNOR
	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

DRAWING No.	REV.
13.120.113	

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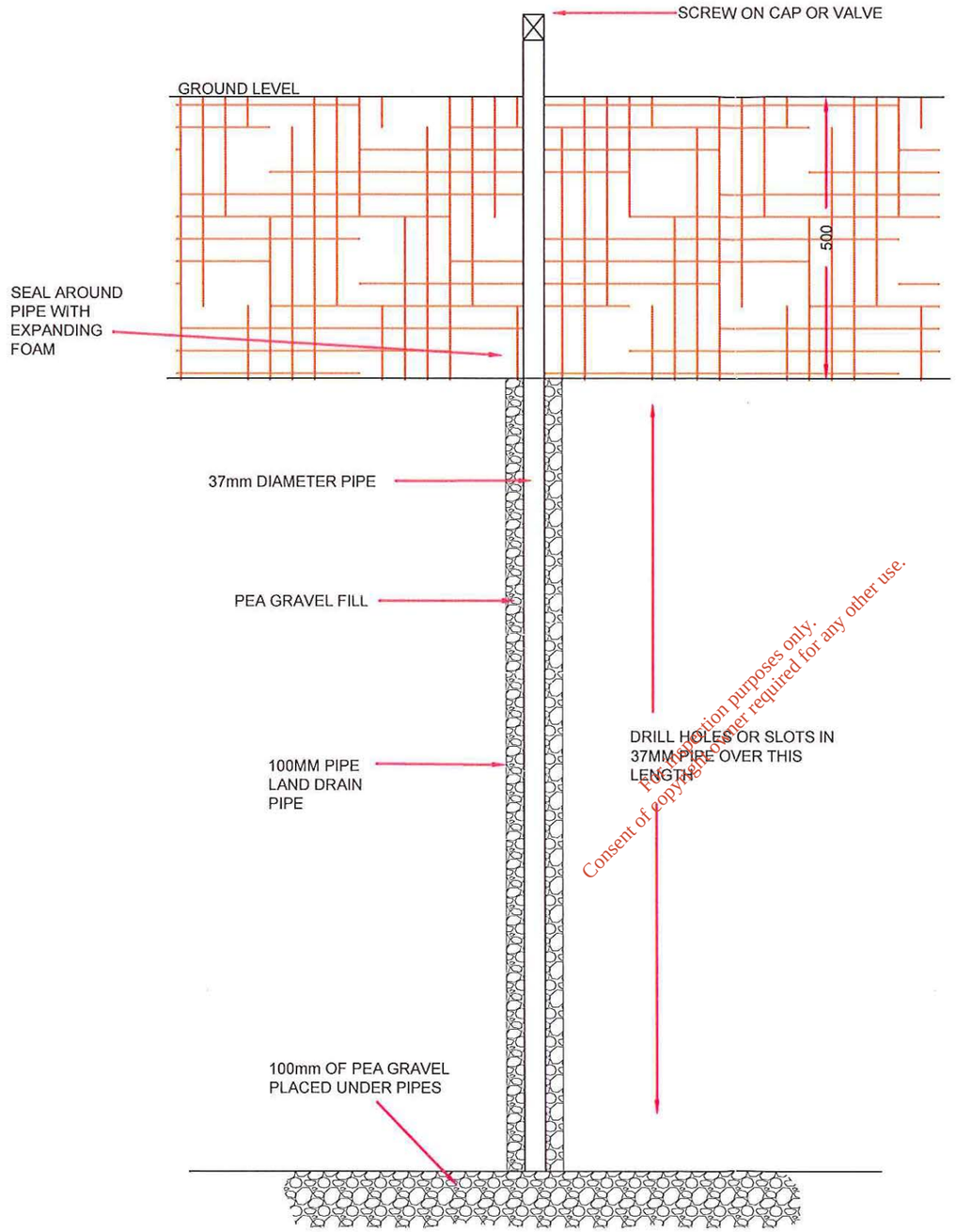
NOTES



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INSTALL 100MM LAND DRAIN 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

REV.	DATE	DESCRIPTION	APPROVED

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Traynor Environmental Ltd.
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 DUNAREE, KINGSCOURT, CO CAVAN

DRAWING TITLE
CROSS SECTION OF STAND PIPE FOR GAS MONITORING

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	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

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13.120.114	

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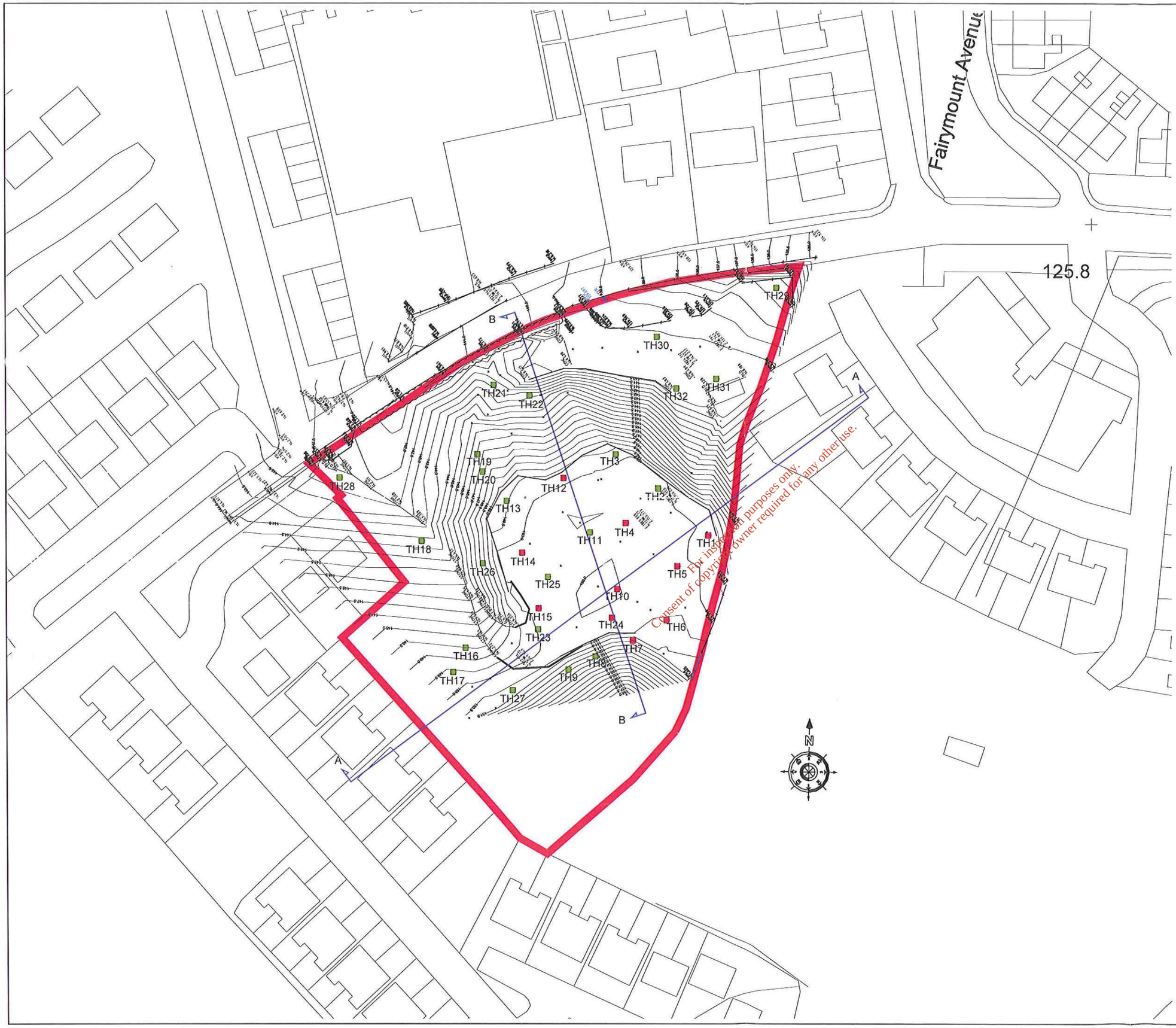

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NOTES

TRIAL HOLES CONTAINING WASTE

TRIAL HOLES CONTAINING NO WASTE

SITE BOUNDARY IN RED

2300m² SUSPECTED AREA OF WASTE

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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 DUNAREE, KINGSCOURT, CO CAVAN

DRAWING TITLE
TRIAL HOLE LOCATIONS

SCALE	DRAWN	CHECKED	APPROVED
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	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

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13.120.115	

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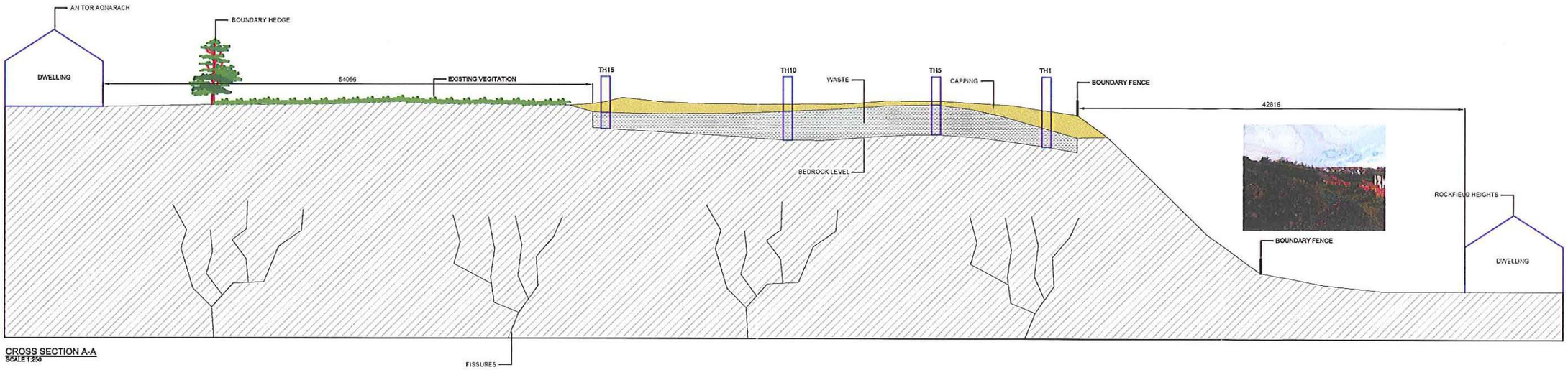

CROSS SECTION A-A
SCALE 1:250

LEGEND
LANDFILL WASTE SOURCE
CAPPING

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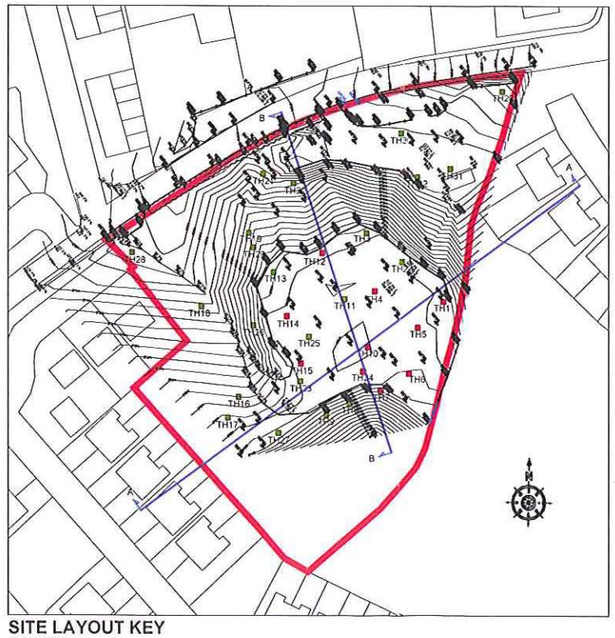
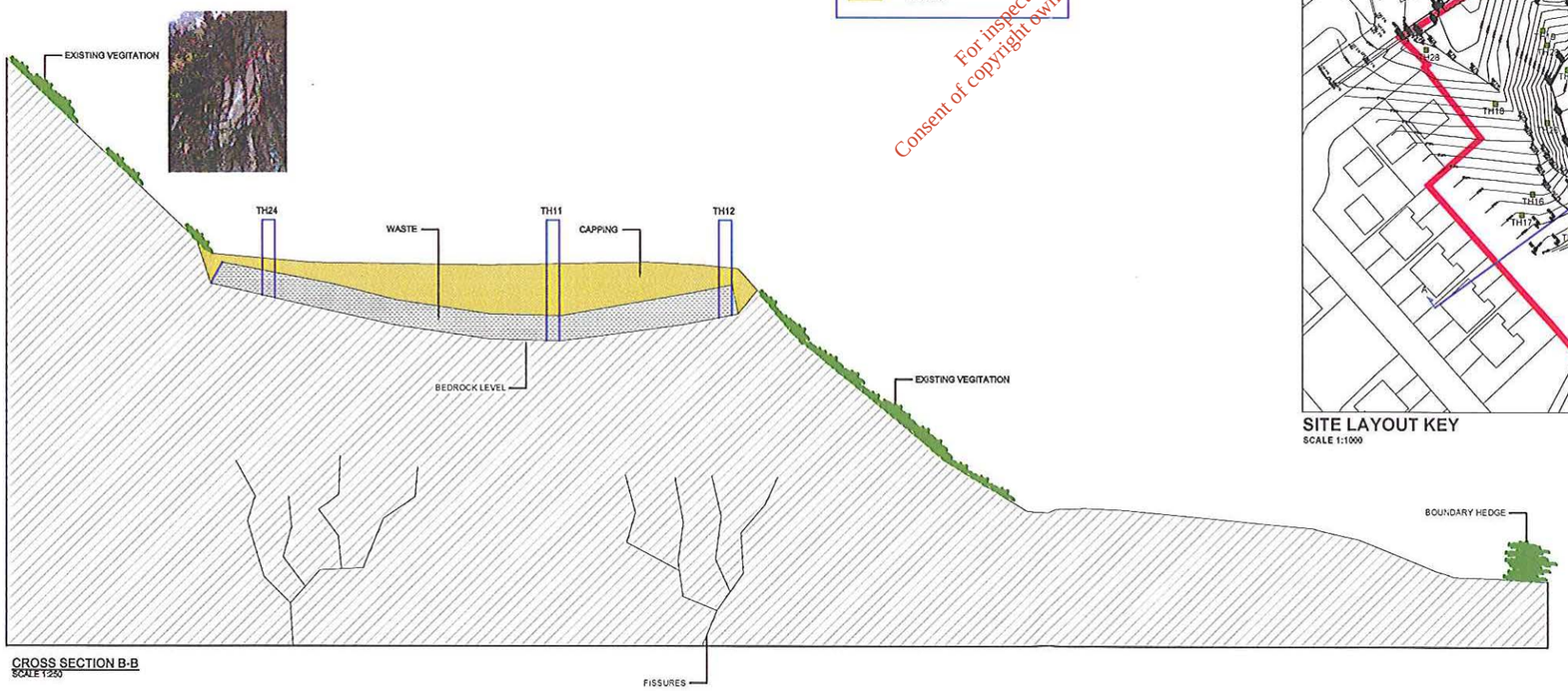


SITE LAYOUT KEY
SCALE 1:1000



CROSS SECTION B-B
SCALE 1:250

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SITE INVESTIGATION & RISK ASSESMENT OF EXISTING HISTORIC LANDFILL SITE AT DUNAREE, KINGSCOURT, CO. CAVAN

DRAWING TITLE
REVISED CONCEPT MODEL OF WASTE DEPOSITED ON THE SITE

SCALE	DRAWN	CHECKED	APPROVED
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	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013	DATE SEPTEMBER 2013

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13.120.116	

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