

# ATTACHMENT 3

## DRAWINGS

Site Plan, Scale Drg. No. 2401058-2.  
Cell Layout & Phasing, Drg. No. 2401058-3.  
Detail of Capping Contours & S.W. Drainage Drg. No. 2401057-4.  
Section A-A, & B-B Drg. No. 2401057-5.  
Leachate Management System, Drg. No. 2401058-5.  
Road Access, Drg. No. 2401058-4.  
Environmental Monitoring & Sampling Locations, Drg. No. 2401057-6.  
Site Plan, Environmental Monitoring, Sampling Locations & Potential  
Emissions, Drg. No. 2401058-7 (To be read in conjunction with tabular data  
attached)



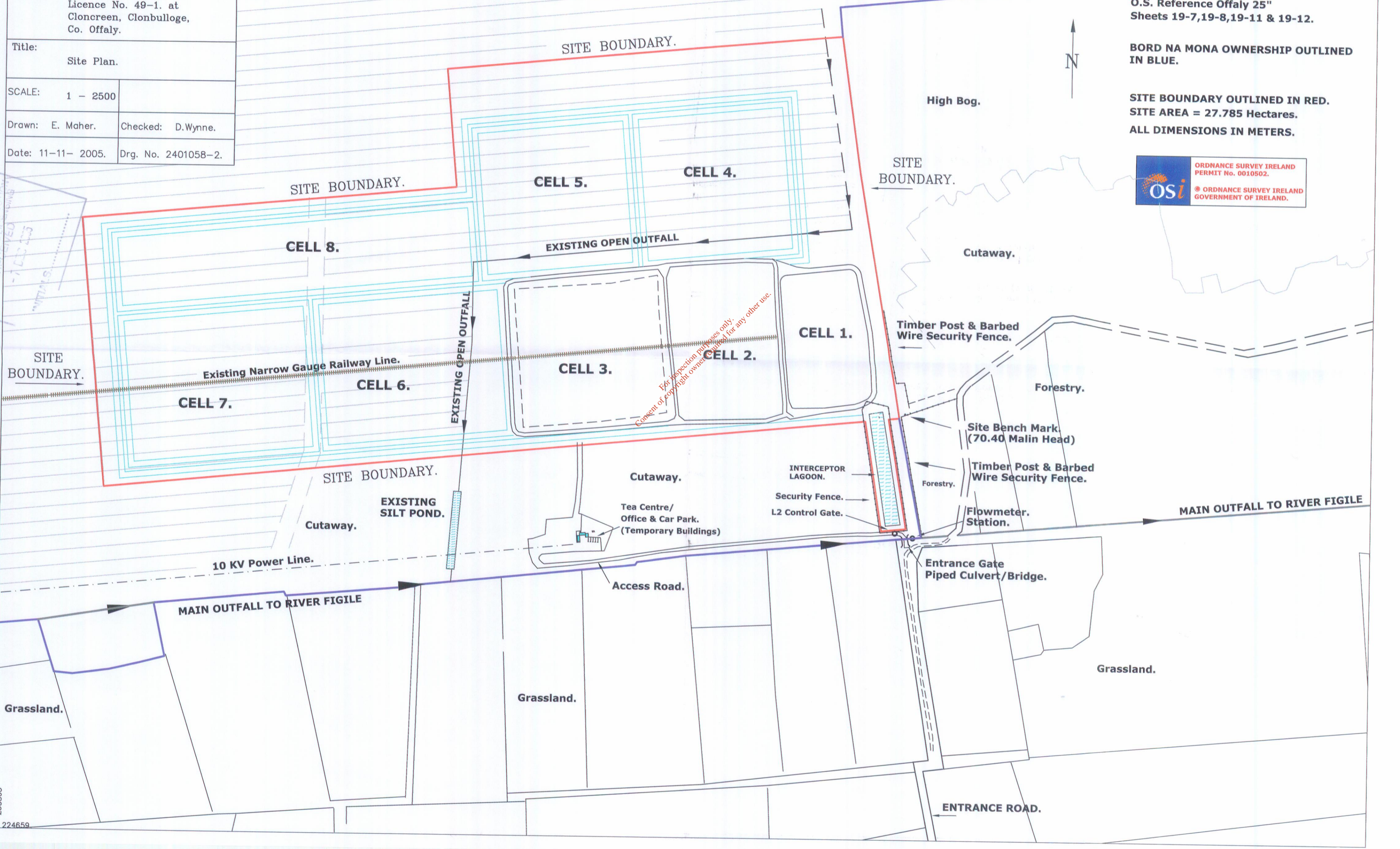
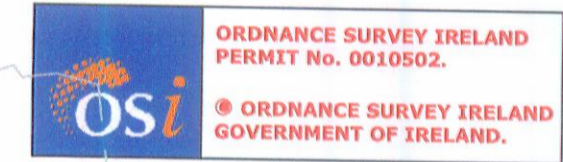
Client:	Bord na Mona Energy Limited Leabeg, Tullamore, Co. Offaly.		
Project:	Waste Licence Review. Licence No. 49-1. at Cloncreen, Clonbulloge, Co. Offaly.		
Title:	Site Plan.		
SCALE:	1 - 2500		
Drawn:	E. Maher.	Checked:	D. Wynne.
Date:	11-11- 2005.	Drg. No.	2401058-2.

**CLONCREEN BOG.  
BORD NA MONA MILLED PEAT  
PRODUCTION BOG.**

O.S. Reference Offaly 25"  
Sheets 19-7,19-8,19-11 & 19-12.

BORD NA MONA OWNERSHIP OUTLINED  
IN BLUE.

SITE BOUNDARY OUTLINED IN RED.  
SITE AREA = 27.785 Hectares.  
ALL DIMENSIONS IN METERS.



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Consent of copyright owner required for any other use.*



Client:	Bord na Mona Energy Limited Leabeg, Tullamore, Co. Offaly.	
Project:	Waste Licence Review. Licence No. 49-1. at Cloncreen, Clonbulloge, Co. Offaly.	
Title:	Cell Layout & Phasing.	
SCALE:	1 - 2500	
Drawn:	E. Maher.	Checked: D. Wynne.
Date:	11-11-2005.	Drg. No. 2401058-3.

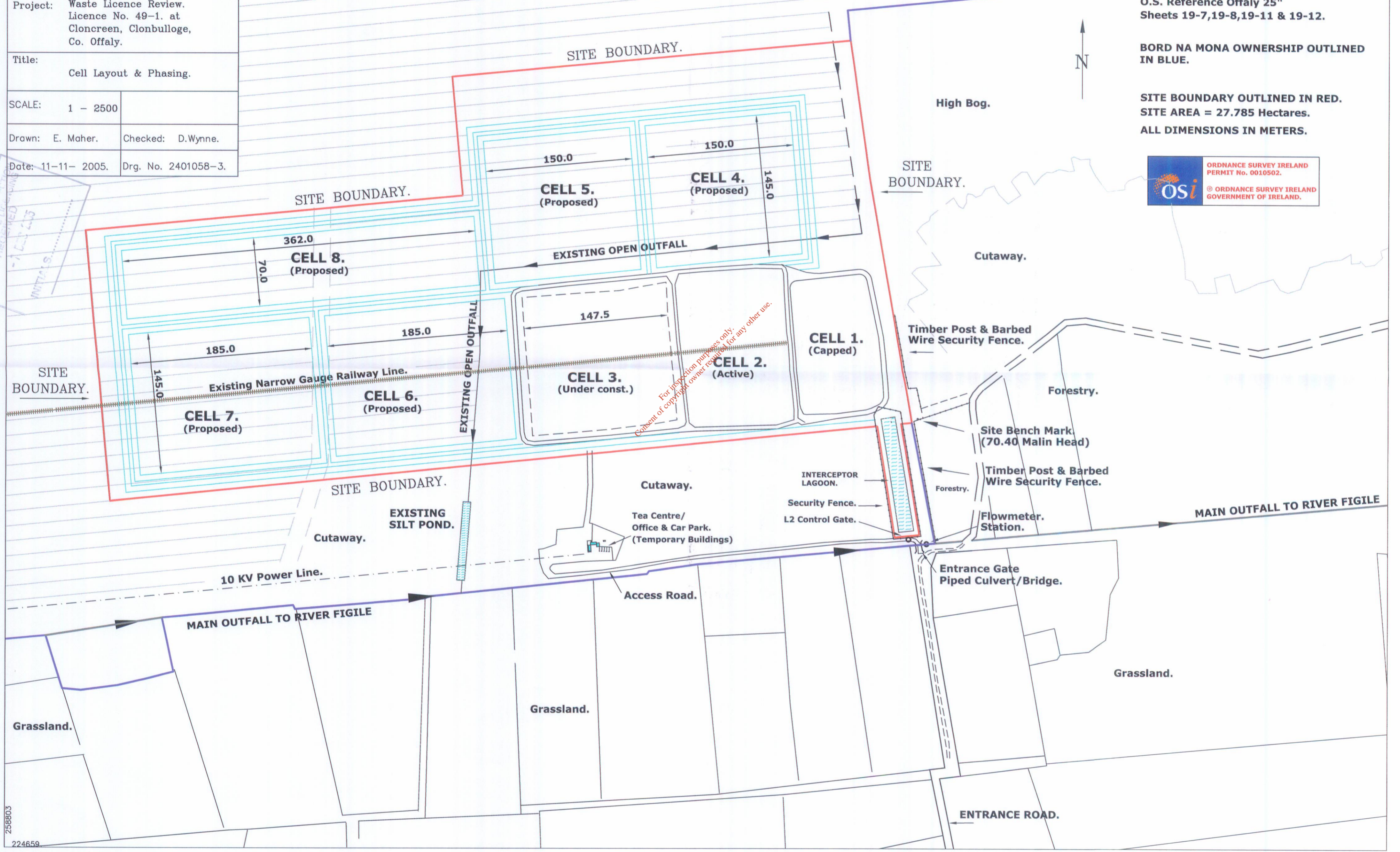
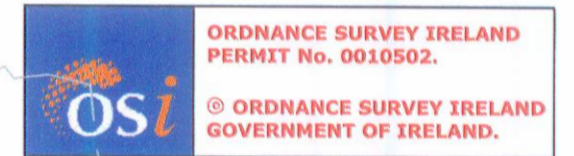
**CLONCREEN BOG.  
BORD NA MONA MILLED PEAT  
PRODUCTION BOG.**

O.S. Reference Offaly 25"  
Sheets 19-7,19-8,19-11 & 19-12.

BORD NA MONA OWNERSHIP OUTLINED  
IN BLUE.

SITE BOUNDARY OUTLINED IN RED.  
SITE AREA = 27.785 Hectares.

ALL DIMENSIONS IN METERS.



258803  
224659



CM-02.

**SHALLOW GROUNDWATER MONITORING BOREHOLES.**

POINT.	EASTING.	NORTHING.
MW-02.	259145	225077
MW-03.	259407	225310
MW-04.	259419	225109
MW-05.	258861	225075
MW-06.	259682	225344
MW-07.	259735	225097

**SURFACE WATER SAMPLING POINTS.**

POINT.	EASTING.	NORTHING.
SW1.	258882	224880
SW4.	259752	224970
SW5.	260587	224959
SW6.	260555	224915
SWR-1.	259269	224920
SWR-2.	258631	224845
LC1-A.	259692	225122
LC2-A.	259599	225108

**BEDROCK GROUNDWATER MONITORING BOREHOLES.**

Point.	Easting.	Northing.	Level (Top of plate)
MW-08.	259194	225287	70.612
MW-09.	258950	224930	69.018
MW-10.	259692	225288	70.740
MW-11.	259736	225022	70.719

**DUST MONITORING LOCATIONS.**

POINT.	EASTING.	NORTHING.
DM-01.	259739	225001
DM-02.	258893	224920
DM-03.	258864	225219
DM-04.	259683	225341

**NOISE MONITORING LOCATIONS.**

POINT.	EASTING.	NORTHING.
N1.	259739	225001
N2.	258893	224920
N3.	258864	225219
N4.	259683	225341
N5.	259185	224354

**LEACHATE MONITORING LOCATIONS.**

POINT.	EASTING.	NORTHING.
L-1.	259702	225096
L-2.	259722	224967

**PM-10 MONITORING LOCATIONS.**

POINT.	EASTING.	NORTHING.
CM-01.	259185	224354
CM-02.	258716	226928

**CLONCREEN BOG. (1018 Ha.)**

Existing BNM Railway

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ENVIRONMENTAL PROTECTION  
AGENCY WASTE LICENSING  
RECEIVED  
- 7 DEC 2005  
INITIALS.....

**ASH REPOSITORY.**

River Figule

Grave Yard



**Client:** Bord na Mona  
Energy Limited  
Leabeg, Tullamore,  
Co. Offaly.

**Project:** Waste Licence Review.  
Licence No. 49-1. at  
Cloncreen, Clonbulloge,  
Co. Offaly.

**Title:** Environmental Monitoring &  
Sampling Locations.

**SCALE:** 1 - 5,000

**Drawn:** E. Maher.

**Checked:**

**Date:** 29-10-2005

**Drg. No.** 2401057-6.





<b>Client:</b>	Bord na Mona Energy Limited Leabeg, Tullamore, Co. Offaly.	
<b>Project:</b>	Waste Licence Review. Licence No. 49-1. at Cloncreen, Clonbulloge, Co. Offaly.	
<b>Title:</b>	ROAD ACCESS.	
<b>SCALE:</b>	1 - 10,000	
<b>Drawn:</b>	E. Maher.	<b>Checked:</b>
<b>Date:</b>	29-10-2005	<b>Drg. No.</b> 2401058-4.

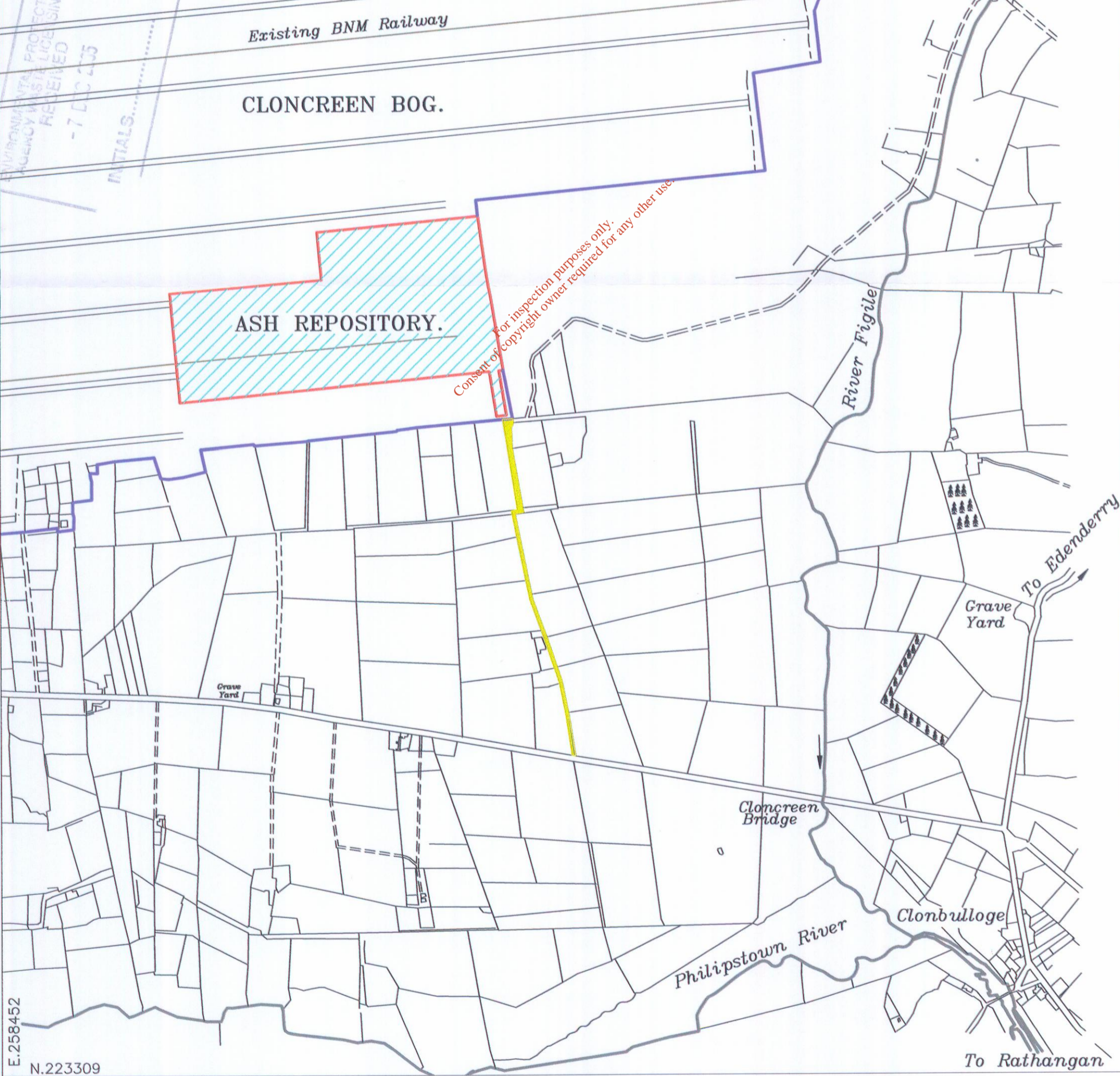
**O.S. Reference Offaly Sheet 19.**

SITE BOUNDARY OUTLINED IN RED.  
 SITE AREA = 27.785 Hectares.

BORD NA MONA OWNERSHIP  
 OUTLINED IN BLUE.

ROAD ACCESS FROM COUNTY ROAD  
 SHADED YELLOW.

ENVIRONMENTAL PROTECTION  
 AGENCY WASTE LICENSING  
 RECEIVED  
 - 7 DEC 2005  
 INITIALS.....



E.258452  
 N.223309



Client: Bord na Mona Energy Limited  
Leabeg, Tullamore, Co. Offaly.

Project: Waste Licence Review.  
Licence No. 49-1. at Clonreen, Clonbulloge, Co. Offaly.

Title: Leachate Management System.

SCALE: 1 - 2500

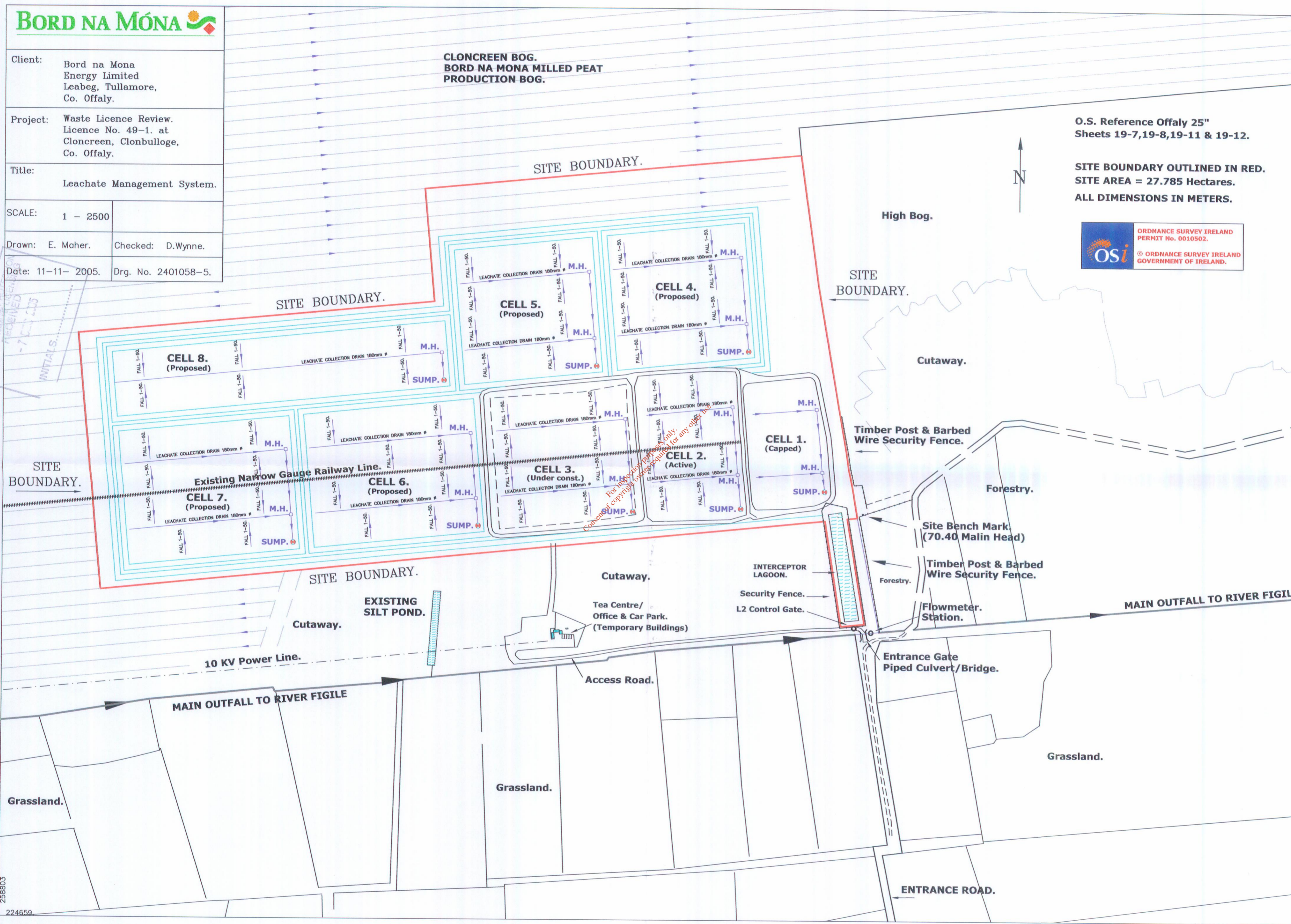
Drawn: E. Maher. Checked: D. Wynne.

Date: 11-11-2005. Drg. No. 2401058-5.

**CLONREEN BOG.  
BORD NA MONA MILLED PEAT  
PRODUCTION BOG.**

O.S. Reference Offaly 25"  
Sheets 19-7,19-8,19-11 & 19-12.

**SITE BOUNDARY OUTLINED IN RED.  
SITE AREA = 27.785 Hectares.  
ALL DIMENSIONS IN METERS.**

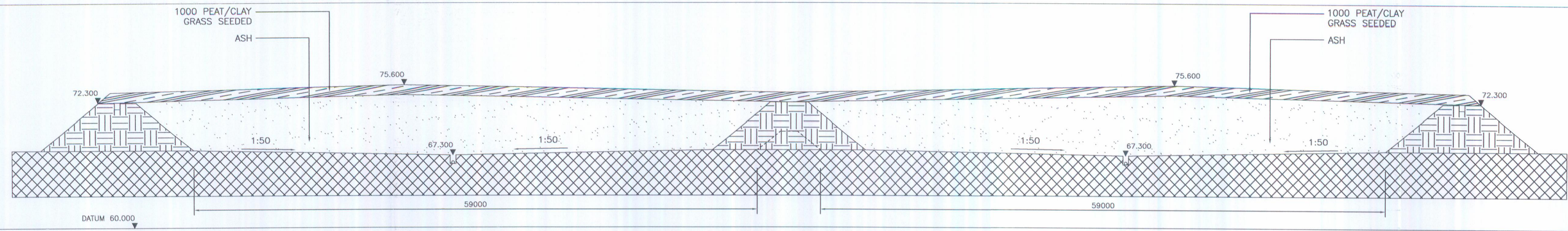


258803  
224659

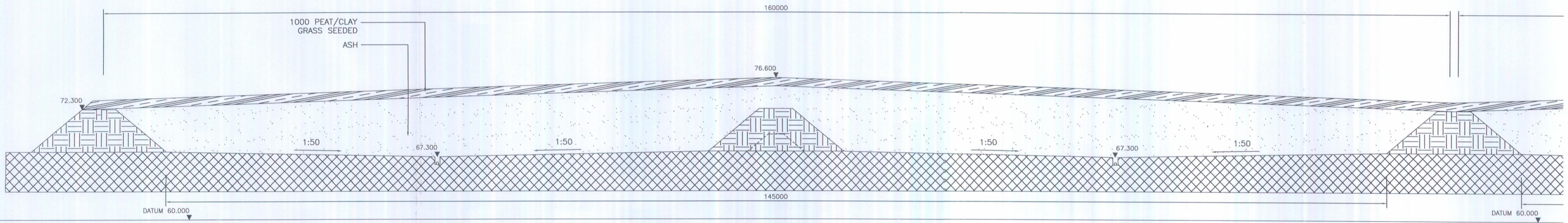


Figured dimensions only to be taken from this drawing. All dimensions to be checked on site. Consultants to be informed of any discrepancies before work proceeds.

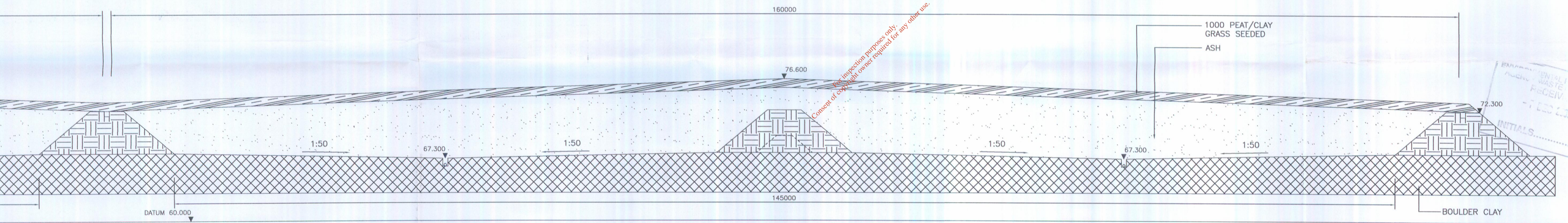
NOTE:  
ALL LEVELS ARE TO MALIN HEAD DATUM. REFER TO DWG. NO. 2401057-4 FOR PLAN SHOWING SECTION POSITIONS.



SECTION A-A



SECTION B-B



SECTION B-B (CONTINUED)

EXHIBIT RECEIVED  
INITIALS

Rev	Date	Description	By	Chkd
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\*\*DO NOT SCALE, USE WRITTEN DIMENSIONS ONLY\*\*

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Email: info@molonymillar.ie

Member of the Association of Consulting Engineers of Ireland

Client  
**BORD NA MONA ENERGY LIMITED**

Project Title  
**ASH REPOSITORY SITE AT CLONCREEN, CLONBULLOGE, CO. OFFALY**

Drawing Title  
**SECTIONS A-A & B-B**

Architect

Drawing Status : CONSTRUCTION

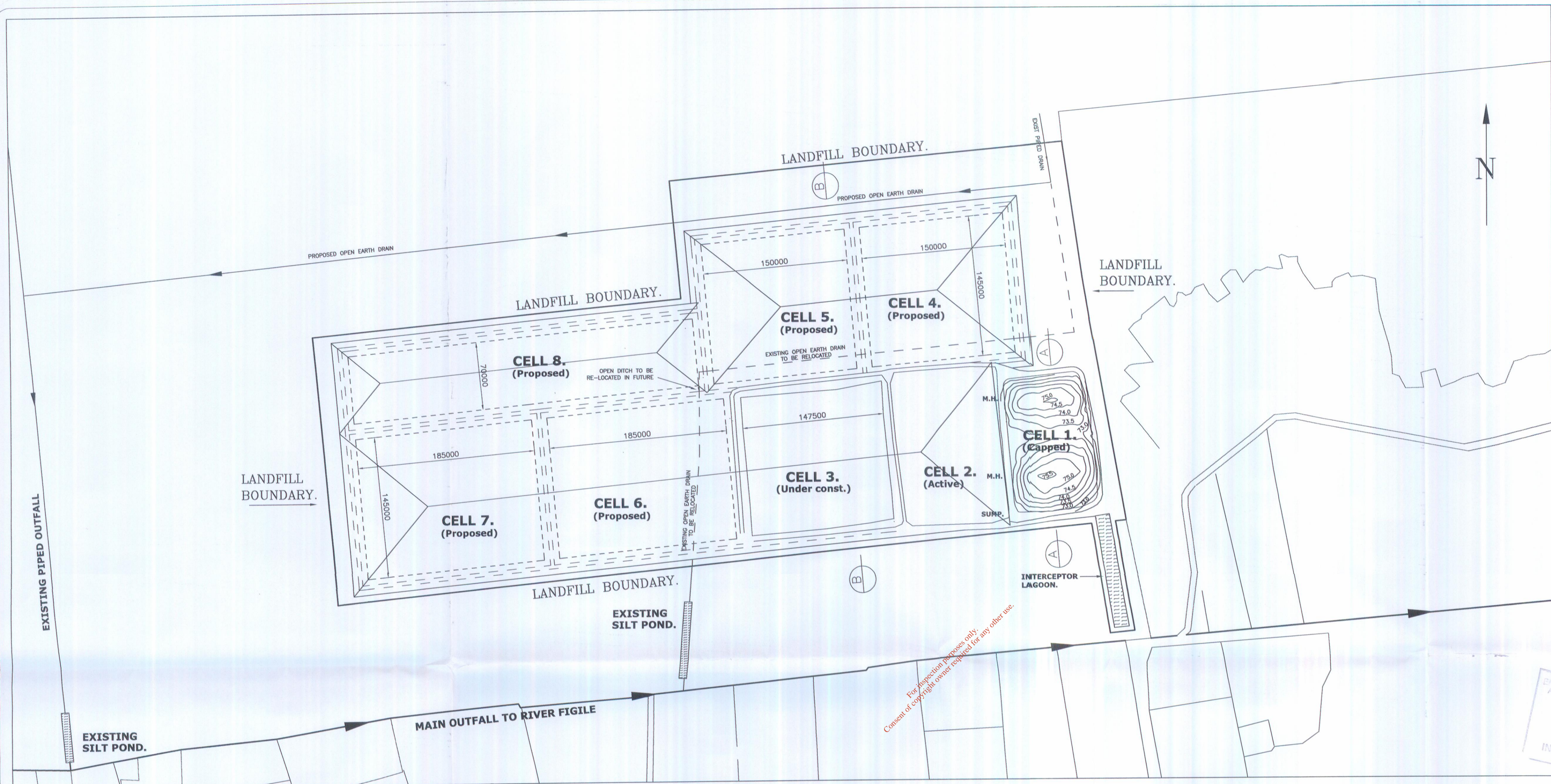
A	SEP '05	SECTION REVISED & EXTENDED	AM	RG
Rev	Date	Description	By	Chkd

Scale	Date	Drawn	Drawing No.	Rev.
1:250	OCT '02	A. Moran, E. Maher	2401057-5.	
		Chkd RAY OGDON		

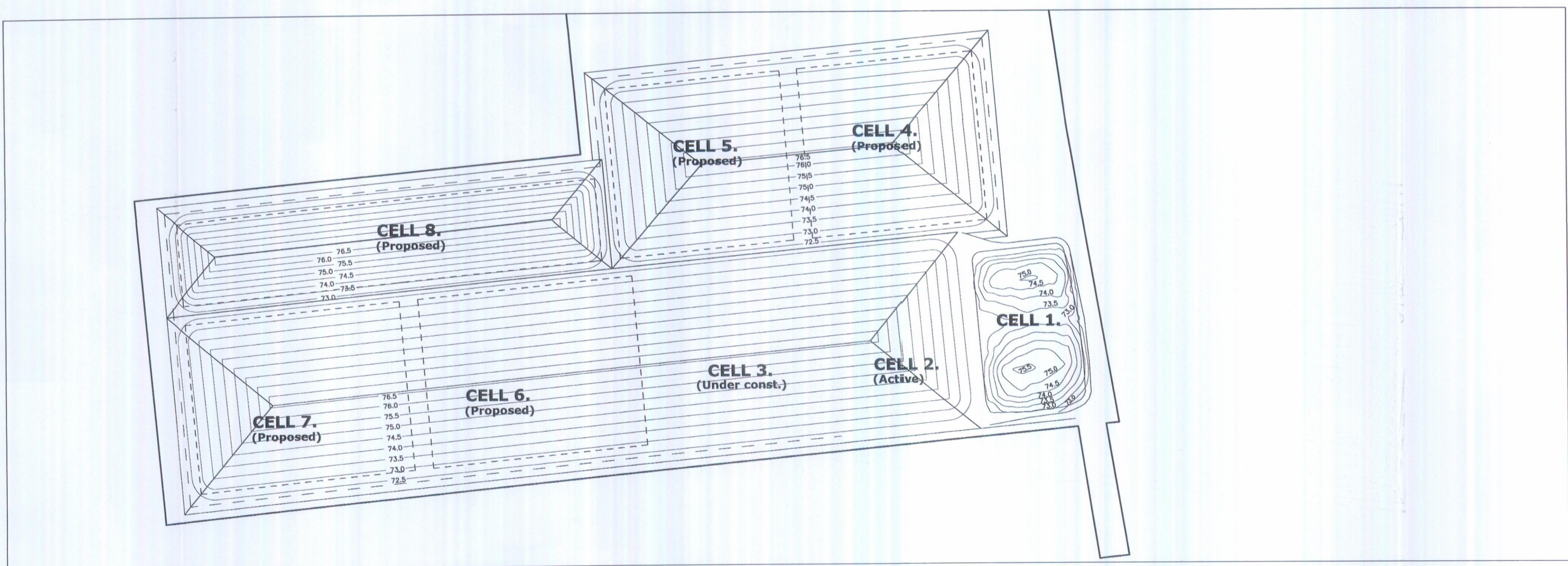
Cad File: S:\DRAWINGS\300\318-15



NOTE:  
ALL LEVELS ARE TO MALIN HEAD DATUM



LAYOUT PLAN



LAYOUT PLAN SHOWING CAPPING CONTOURS AND S.W. DRAINAGE

INITIALS.....

C	SEP '05	PLAN AMENDED, CAP CONTOURS ADDED	AM	RG
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A	NOV '02	PLAN AND SECTION REVISED	JMCA	RG
Rev	Date	Description	By	Chkd

\*\*DO NOT SCALE, USE WRITTEN DIMENSIONS ONLY\*\*

**MOLONY & MILLAR**  
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Client  
**BORD NA MONA ENERGY LIMITED.**

Project Title  
**ASH REPOSITORY SITE AT CLONCREEN, CLONBULLOGE, CO. OFFALY.**

Drawing Title  
**DETAIL OF CAPPING CONTOURS AND S.W. DRAINAGE**

Architect

Drawing Status : CONSTRUCTION

Scale	Date	Drawn	Drawing No.	Rev.
1:2500	OCT '05	J. Molony	2401057-4.	
		Chkd		
		RAY		

Cad File: S:\DRAWINGS\300\318-15



CM-02.

**SHALLOW GROUNDWATER MONITORING BOREHOLES.**

POINT.	EASTING.	NORTHING.
MW-02.	259145	225077 69.302
MW-03.	259407	225310 70.356
MW-04.	259419	225109 71.020
MW-05.	258861	225075 68.084
MW-06.	259682	225344 71.413
MW-07.	259735	225097 70.066

**SURFACE WATER SAMPLING POINTS.**

POINT.	EASTING.	NORTHING.
SW1.	258882	224880
SW4.	259752	224970
SW5.	260587	224959
SW6.	260555	224915
SWR-1.	259269	224920
SWR-2.	258631	224845
LC1-A.	259692	225122
LC2-A.	259599	225108

**BEDROCK GROUNDWATER MONITORING BOREHOLES.**

Point.	Easting.	Northing.	Level (Top of plate)
MW-08.	259194	225287	70.612
MW-09.	258950	224930	69.018
MW-10.	259692	225288	70.740
MW-11.	259736	225022	70.719

**DUST MONITORING LOCATIONS.**

POINT.	EASTING.	NORTHING.
DM-01.	259739	225001
DM-02.	258893	224920
DM-03.	258864	225219
DM-04.	259683	225341

**NOISE MONITORING LOCATIONS.**

POINT.	EASTING.	NORTHING.
N1.	259739	225001
N2.	258893	224920
N3.	258864	225219
N4.	259683	225341
N5.	259185	224354

**LEACHATE MONITORING LOCATIONS.**

POINT.	EASTING.	NORTHING.
L-1.	259702	225096
L-2.	259722	224967

**PM-10. MONITORING LOCATIONS.**

POINT.	EASTING.	NORTHING.
CM-01.	259185	224354
CM-02.	258716	226928

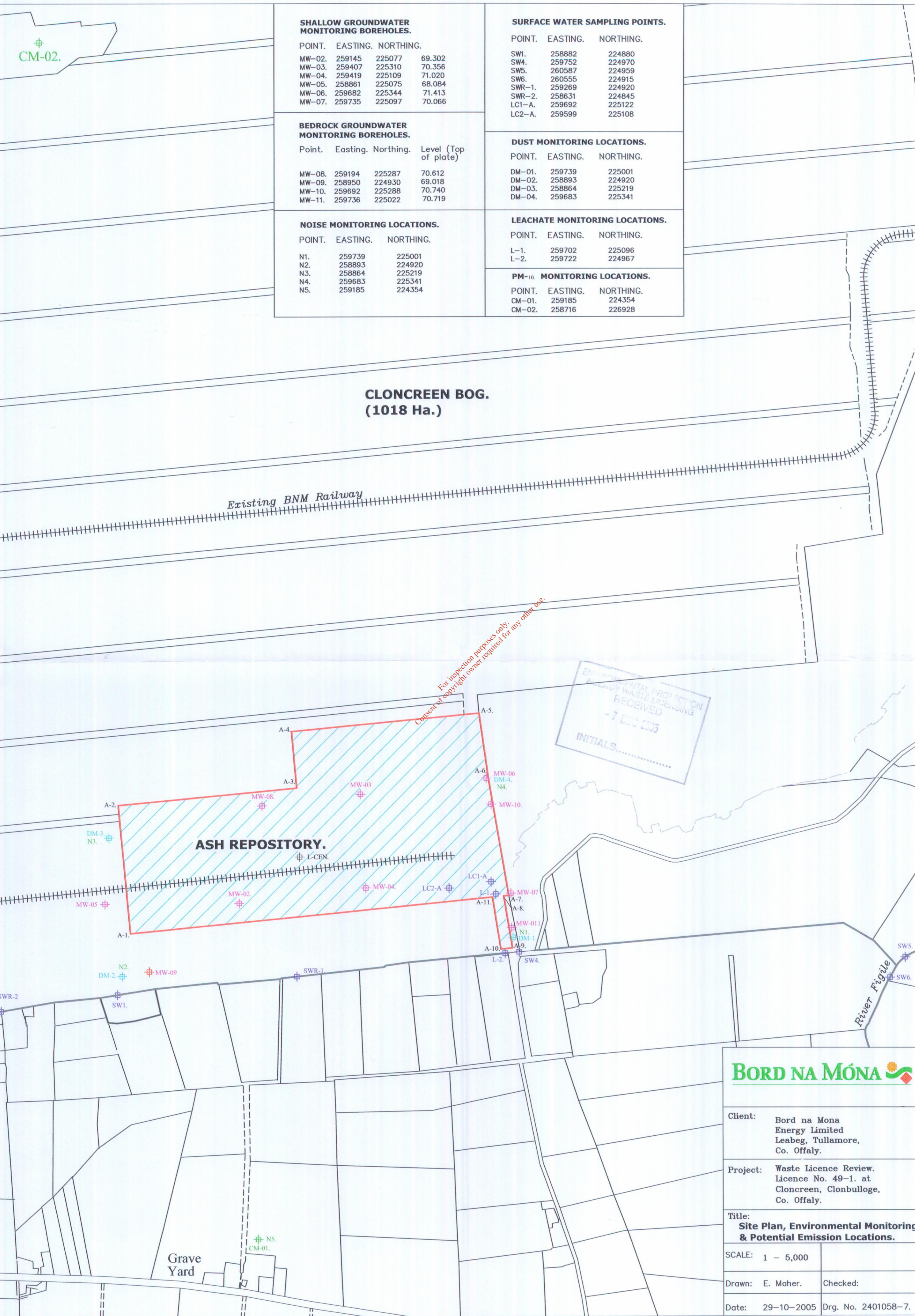
**CLONCREEN BOG. (1018 Ha.)**

Existing BNM Railway

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ENVIRONMENTAL PROTECTION AGENCY WASTE LICENSING RECEIVED - 7 DEC 2005 INITIALS.....


**ASH REPOSITORY.**



Client:	Bord na Mona Energy Limited Leabeg, Tullamore, Co. Offaly.
Project:	Waste Licence Review. Licence No. 49-1. at Cloncreen, Clonbulloge, Co. Offaly.
Title:	<b>Site Plan, Environmental Monitoring &amp; Potential Emission Locations.</b>
SCALE:	1 - 5,000
Drawn:	E. Maher.
Checked:	
Date:	29-10-2005
Drg. No.	2401058-7.



PT_CD	NAME	LIC_TYPE	ACTIVITY	PT_TYPE	EASTING	NORTHING	VERIFIED
L-CEN	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	259,275	225,176	N
A-1	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	258,909	225,012	N
A-2	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	258,884	225,288	N
A-3	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	259,269	225,324	N
A-4	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	259,257	225,446	N
A-5	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	259,665	225,484	N
A-6	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	259,686	225,343	N
A-7	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	259,729	225,092	N
A-8	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	259,718	225,091	N
A-9	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	259,737	224,979	N
A-10	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	259,712	224,976	N
A-11	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	L	259,694	225,089	N
MW-02	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,145	225,077	N
MW-03	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,407	225,310	N
MW-04	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,419	225,109	N
MW-05	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	258,861	225,075	N
MW-06	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,682	225,344	N
MW-07	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,735	225,097	N
MW-08	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,194	225,287	N
MW-09	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	258,950	224,930	N
MW-10	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,692	225,288	N
MW-11	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,736	225,022	N
N1	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,739	225,001	N
N2	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	258,893	224,920	N
N3	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	258,864	225,219	N
N4	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,683	225,341	N
N5	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,185	224,354	N
SW1	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	258,882	224,880	N
SW4	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,792	224,970	N
SW5	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	260,587	224,959	N
SW6	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	260,055	224,915	N
SWR-1	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,269	224,920	N
SWR-2	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	258,631	224,845	N
LC1-A	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,692	225,122	N
LC2-A	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,599	225,108	N
DM-01	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,739	225,001	N
DM-02	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	258,893	224,920	N
DM-03	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	258,864	225,219	N
DM-04	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,683	225,341	N
L-1	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,702	225,096	N
L-2	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,722	224,967	N
CM-01	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	259,185	224,354	N
CM-02	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	M	258,716	226,928	N
L-2	Cloncreen Ash Repository, Waste Licence (49-1)	W	Class 1.	E	259,722	224,967	N

 NOTE: This table to be read in conjunction with Drawing No. 2401058-7