

**Legend**

	Site Location		Lower Liffey
	WWTP Locations		Morell
	Licensed IPPC Facilities		Naas
	Hydrometric Gauging Stations		Painestown
<b>Sub-Catchment:</b>			Quinsborough
	Awillyinish		Rathmore
	Blessington		Slane
	Colmanstown		Tinode
	Gollymochy		Upper Blackwater
	Kill		Wheatfield

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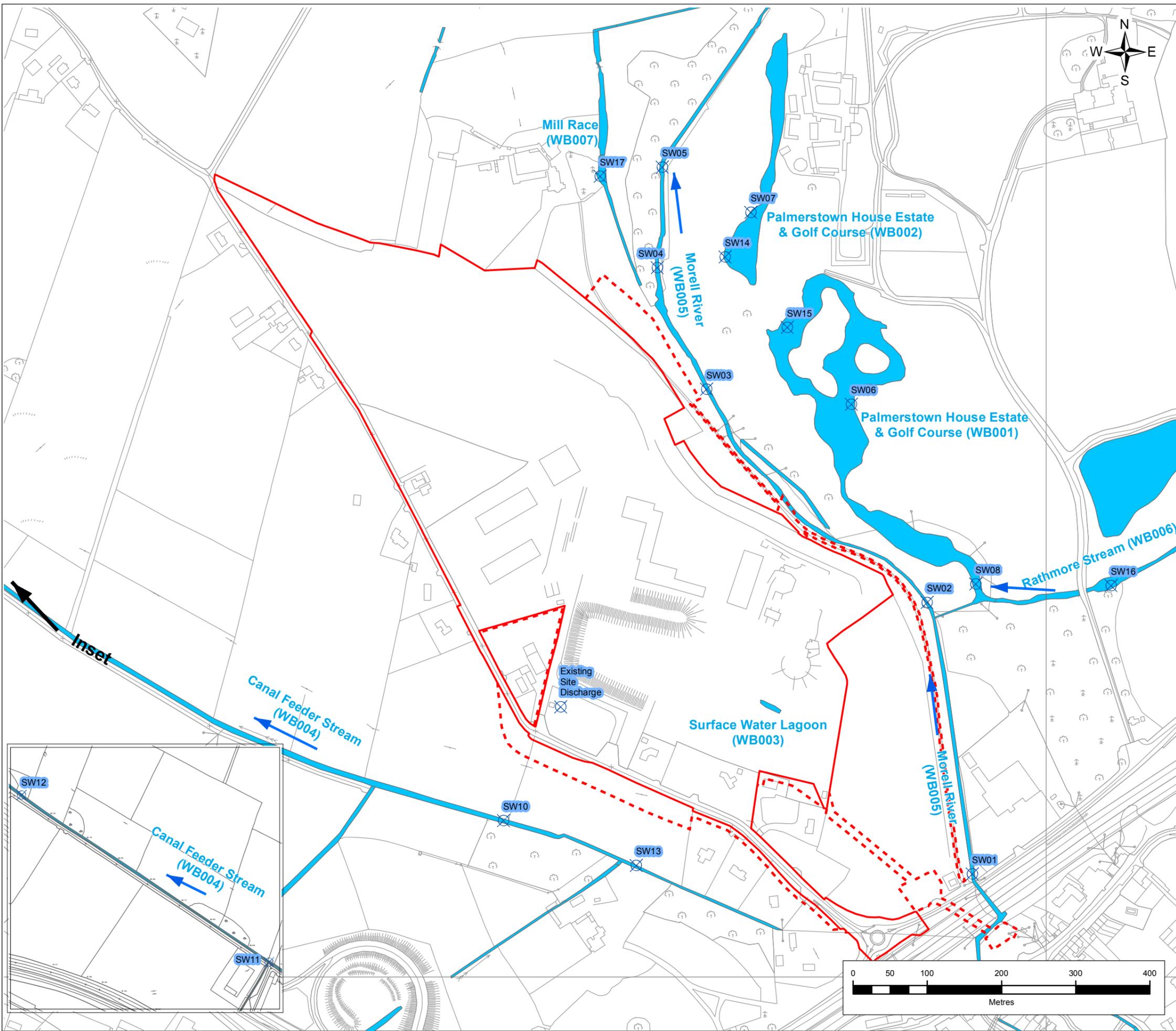
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Project: **KERDIFFSTOWN LANDFILL REMEDIATION PROJECT**

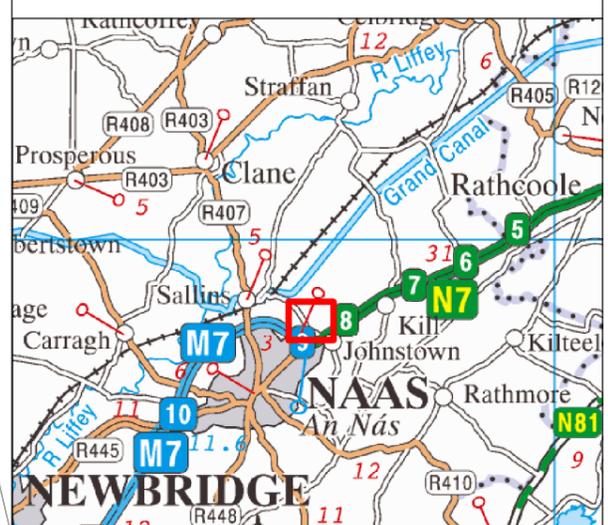
Drawing Title: **FIGURE 13.1 - HYDROLOGICAL CATCHMENTS / SUB-CATCHMENTS**

Drawing Status	EIAR SUBMISSION	
Scale @ A3	1:50,000	DO NOT SCALE
Jacobs No.	32EW5604	
Client No.	6286	
Drawing No.	32EW5604-824 P1	Rev 1

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**FIGURE 13.2**



**Legend**

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- ⊗ Surface Water Monitoring Point (Existing)
- Watercourses

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Drawing Title: **FIGURE 13.2 - SURFACE WATER QUALITY MONITORING LOCATIONS & WATERCOURSES**

Drawing Status	<b>EIAR SUBMISSION</b>		
Scale @ A3	1:5,000	DO NOT SCALE	
Jacobs No.	32EW5604		
Client No.	6286		
Drawing No.	32EW5604-825 P2	Rev	2

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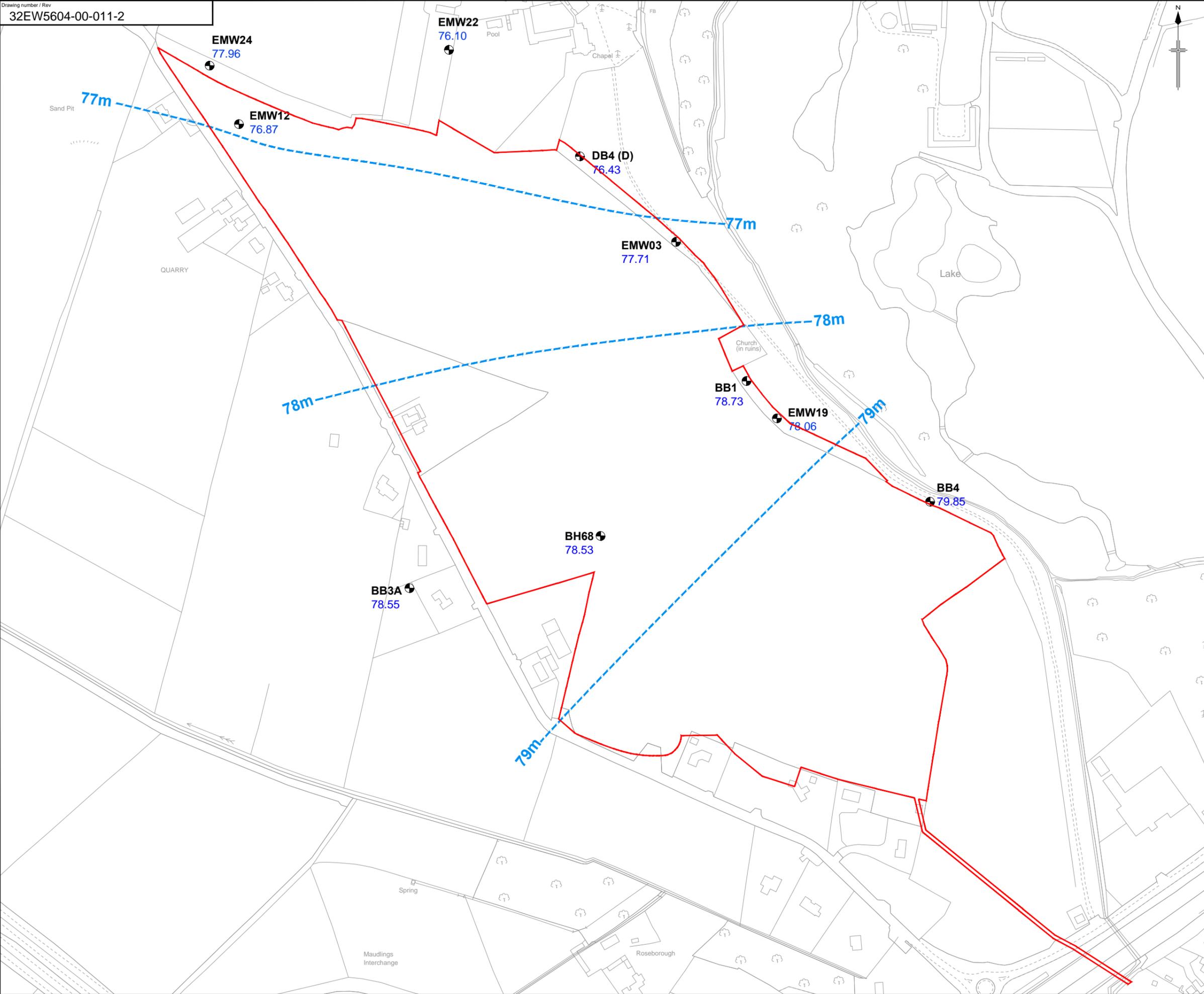


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**KEY:**

-  Licence Boundary
-  Groundwater Monitoring Point
-  Inferred Groundwater Contour (mOD)

**NOTE:**  
Groundwater contours shown are interpolated based on the whole monitoring data set and considering hydrogeological principles



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Drawing title  
**FIGURE 12.14**  
GROUNDWATER LEVELS -  
BEDROCK

Drawing status  
EIAR SUBMISSION

Scale  
NTS @ A3  
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KEY:

-  Licence Boundary
-  Inferred Zone Boundary
-  Approximate Extent of Quarrying
-  Waste Basal Contours metres OD (Malin Head)
-  Approximate Area of Saturated Waste. Areas shown are those where the base of waste is below 80m OD (Malin Head)
-  Potential Area of Saturated Waste
-  Boreholes where groundwater was measured above the basal level of waste in February 2017. \* these boreholes are potentially recording perched water levels.
-  (0.19) Depth of Waste Below 80m OD Contour (m)
-  (1.63) Depth of Waste Below Measured Water Level (m)

NOTES:

1. For detailed description of Zones, refer to Chapters 3 and 12 of the EIAR.

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Drawing title  
**FIGURE 12.15  
SATURATED WASTE THICKNESS AND  
AREAS OF SATURATED WASTE**

Drawing status  
**EIAR SUBMISSION**

Scale  
NTS @ A3

Jacobs No.  
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Client no.  
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Drawing number  
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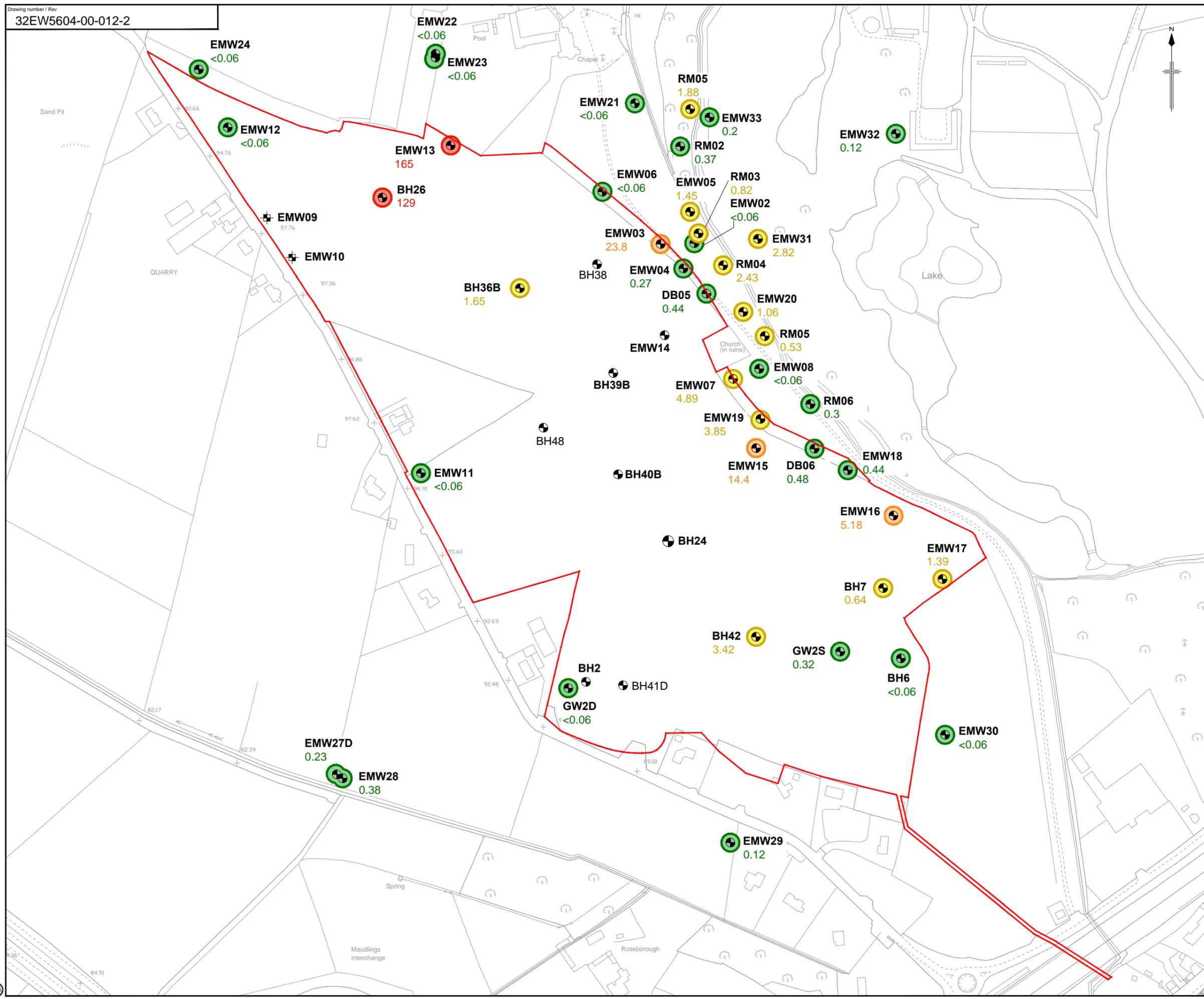
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**KEY:**

- Licence Boundary
- Groundwater Monitoring Point

**AMMONIACAL NITROGEN CONCENTRATIONS:**

- <0.5mg/l
- 0.5 - 5mg/l
- 5 - 50mg/l
- >50mg/l



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Drawing title: **FIGURE 12.16**  
DISTRIBUTION OF AMMONIACAL NITROGEN  
(DECEMBER 2016)

Drawing status: EIAR SUBMISSION

Scale: NTS @A3  
Jacobus No.: 32EW5604  
Client No.: 6286

Drawing number: 32EW5604-00-012  
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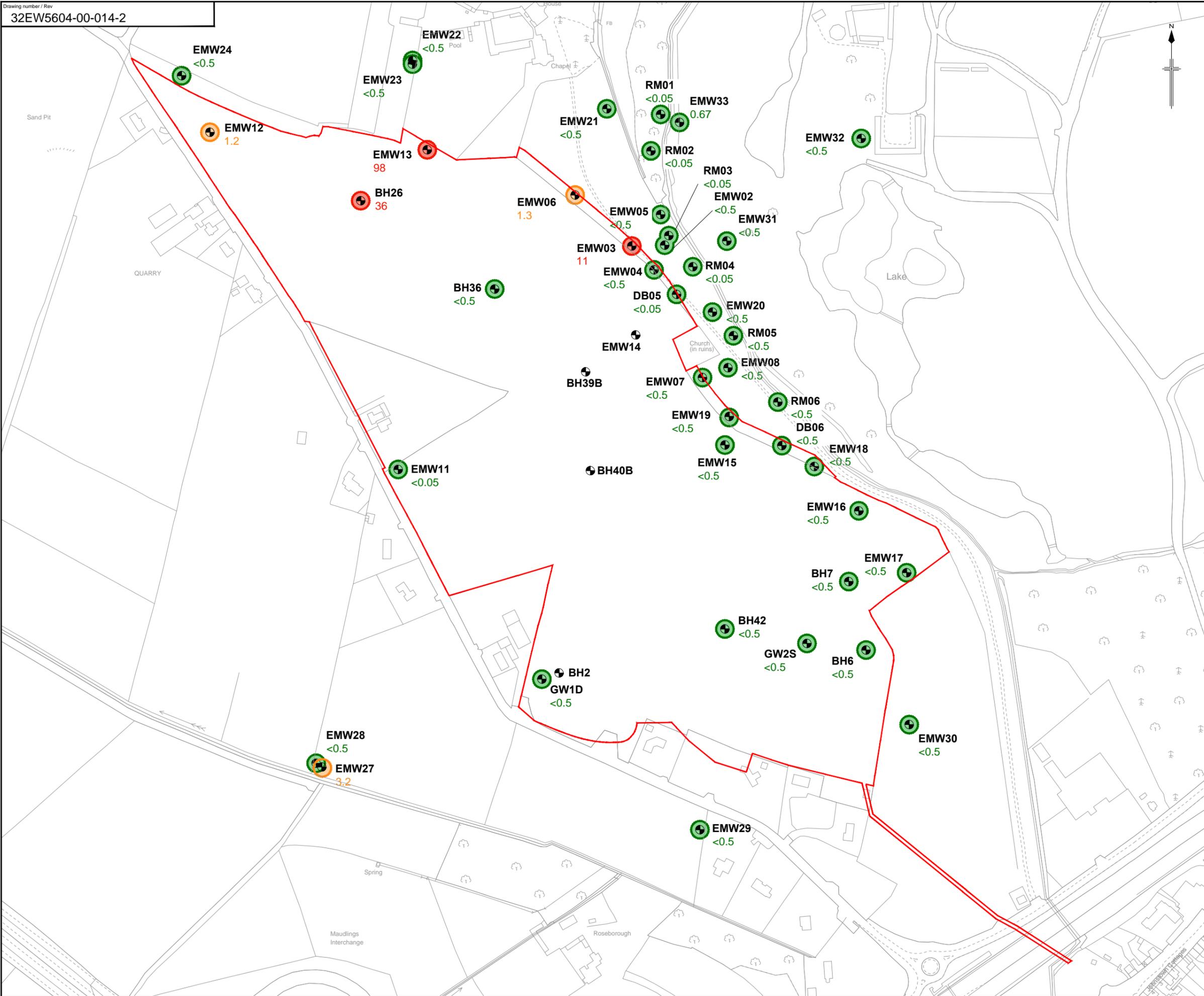


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- KEY:**
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  -  Groundwater Monitoring Point

**TOTAL PHENOL CONCENTRATIONS:**

-  <1 µg/l
-  1 µg/l - <10 µg/l
-  >10 µg/l



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Drawing title  
**FIGURE 12.18**  
DISTRIBUTION OF PHENOL  
(DECEMBER 2016)

Drawing status  
EIAR SUBMISSION

Scale  
NTS @A3

Jacobs No.  
32EW5604

Client No.  
6286

Drawing number  
32EW5604-00-014

Rev  
2

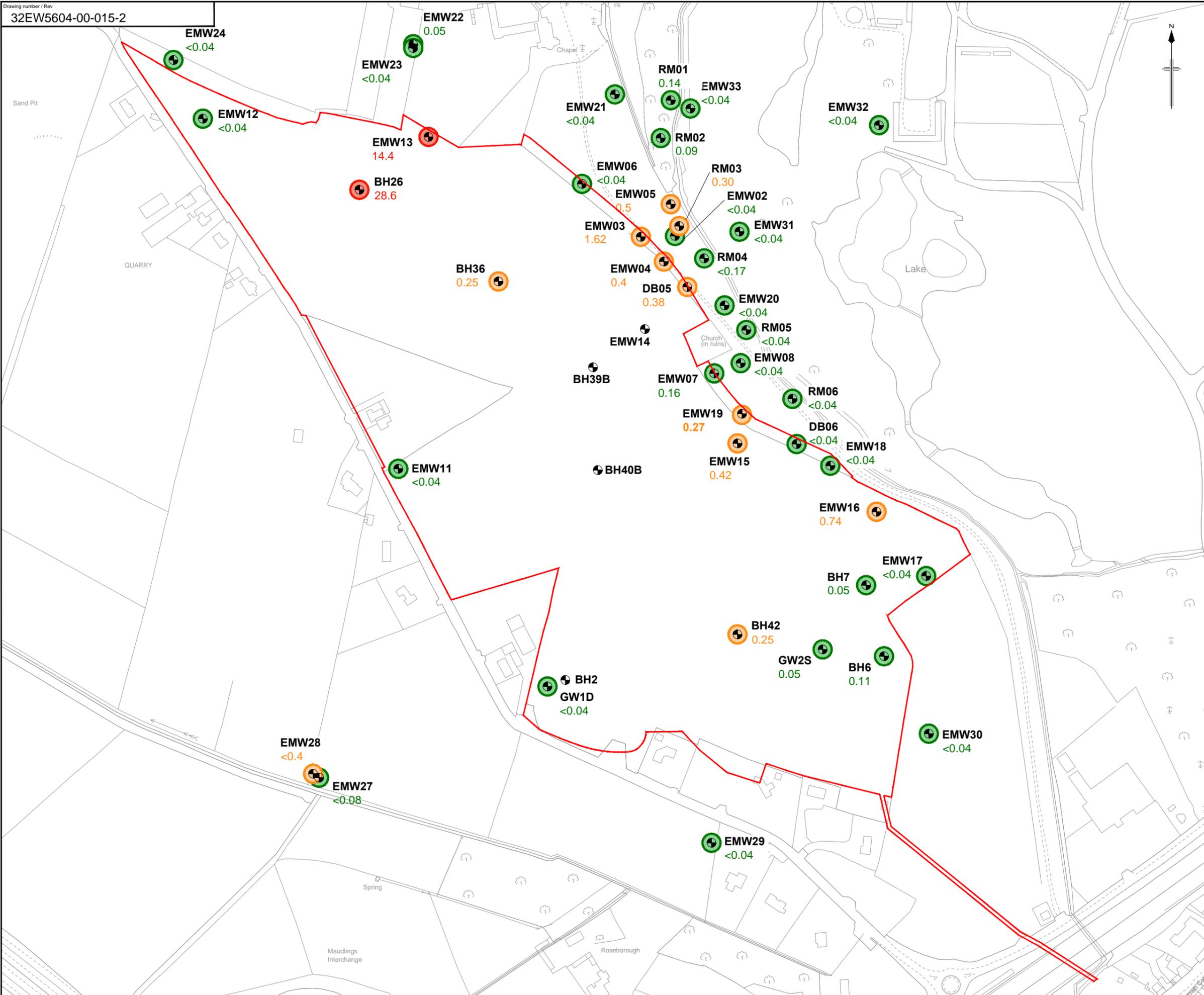
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- KEY:**
-  Licence Boundary
  -  Groundwater Monitoring Point

**MECOPROP CONCENTRATIONS:**

-  <0.25 µg/l
-  0.25 µg/l - 10 µg/l
-  >10 µg/l



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Drawing title  
**FIGURE 12.19**  
DISTRIBUTION OF MECOPROP  
(DECEMBER 2016)

Drawing status  
EIAR SUBMISSION

Scale  
NTS @A3

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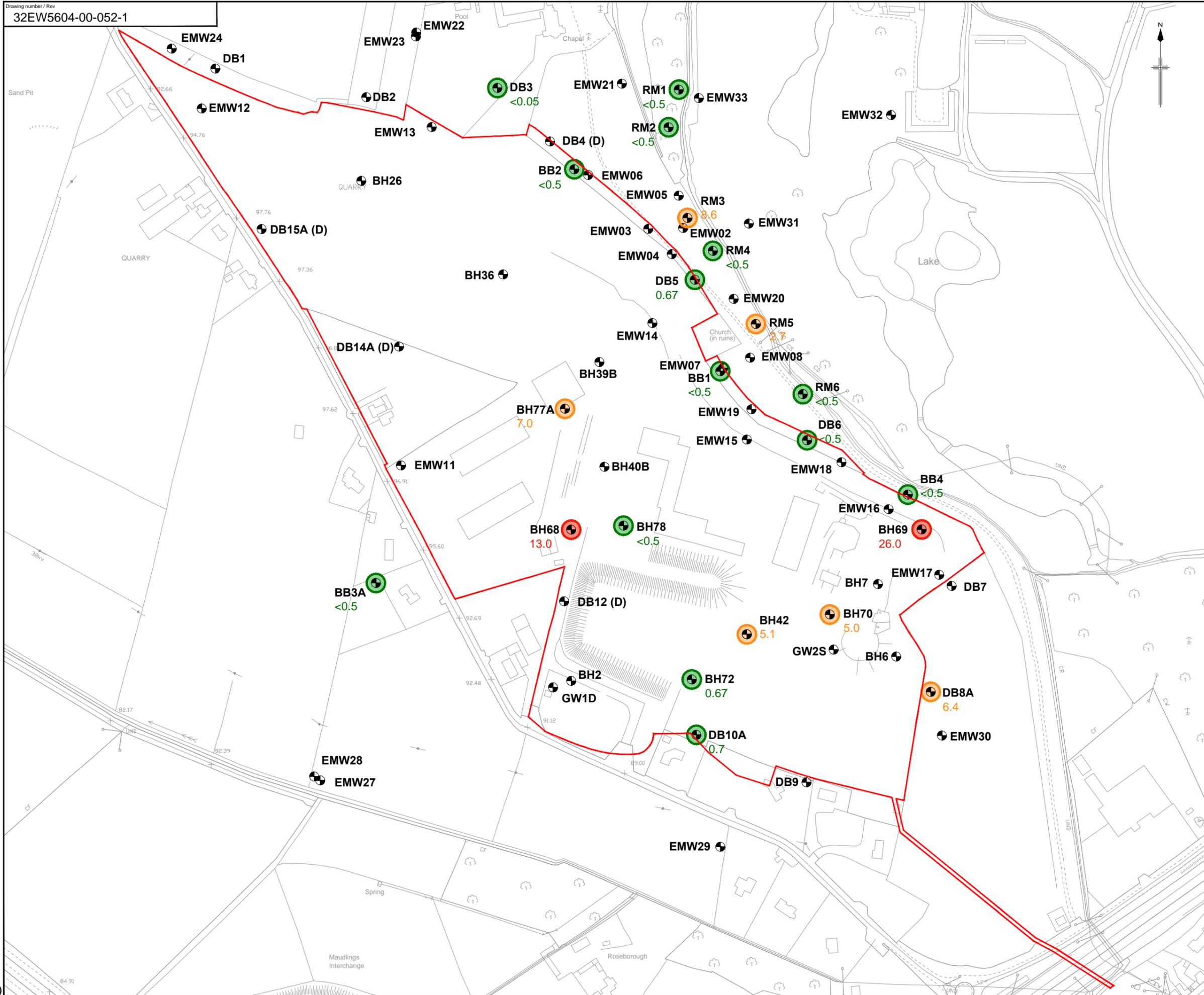
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KEY:

- Licence Boundary
- Groundwater Monitoring Point

Total Phenol

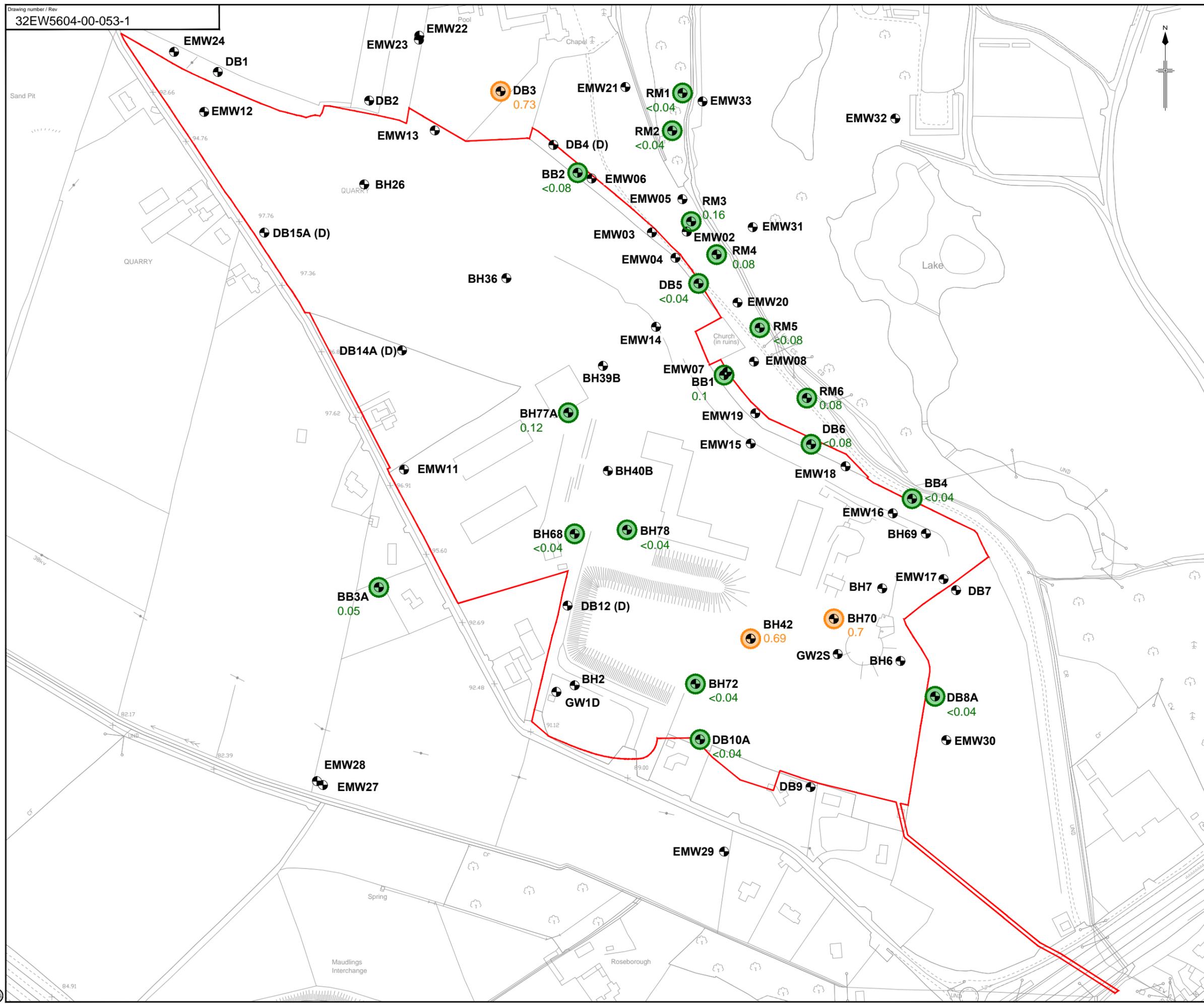
- <1 µg/l
- 1 µg/l - <10 µg/l
- >10 µg/l



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KEY:

- Licence Boundary
  - Groundwater Monitoring Point
- Macroprop
- <0.25 µg/l
  - 0.25 - 10 µg/l
  - >10 µg/l



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Drawing title: **FIGURE 12.23  
 GROUNDWATER MECOPROP  
 DISTRIBUTION  
 (FEBRUARY 2017)**

Drawing status: **EIAR SUBMISSION**

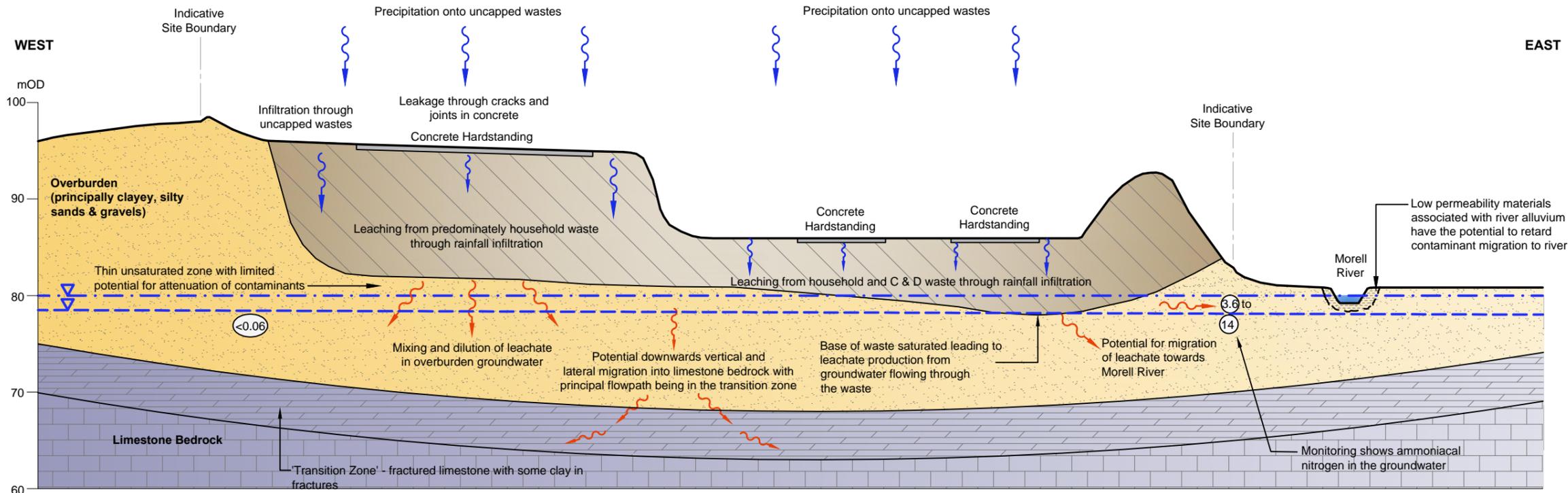
Scale: **NTS @ A3** (DETAILS SHOULD NOT BE SCALED FOR CONSTRUCTION PURPOSES HENCE DRAWING SHOULD NOT BE SCALED)

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 Client No.: **6286**

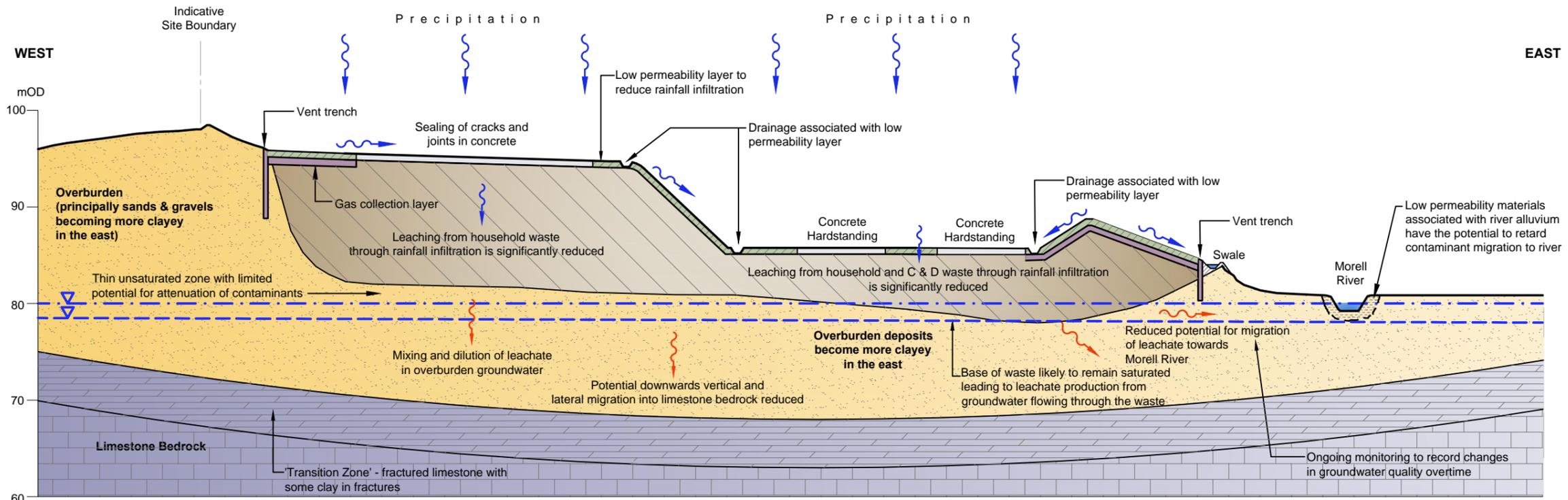
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Groundwater Conceptual Site Model for Zone 2A and 2B: Current Scenario



Groundwater Conceptual Site Model for Zone 2A and 2B: Post Remediation

**KEY:**

- Groundwater Level
- Potential Leachate Level
- Migrating Leachate
- Ammoniacal Nitrogen Concentration July 2016 (mg/l)

2	07/08/2017	EIAR SUBMISSION	AR	CD	CD	RR
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Drawing title: FIGURE 12.25 HYDROGEOLOGY CONCEPTUAL SITE MODEL (ZONE 2)

Drawing status: EIAR SUBMISSION

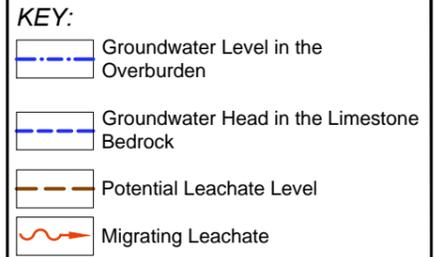
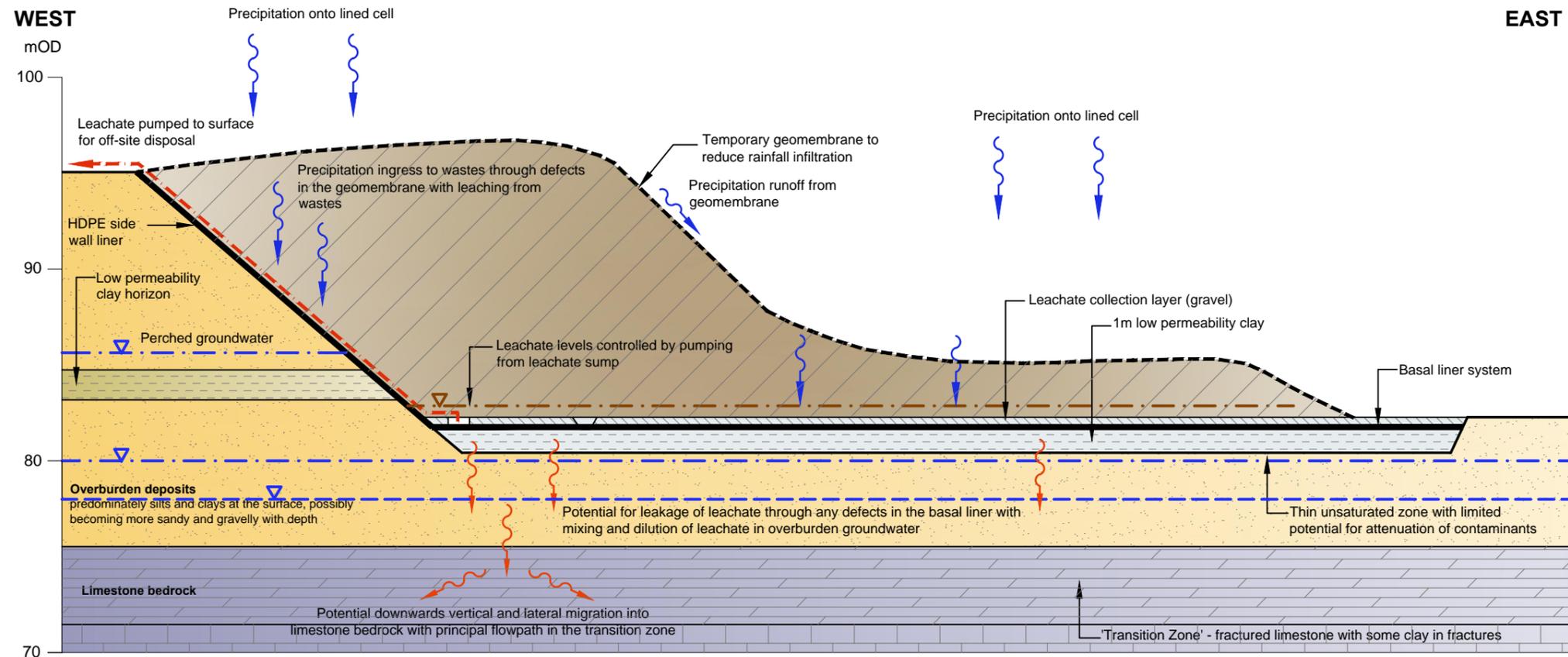
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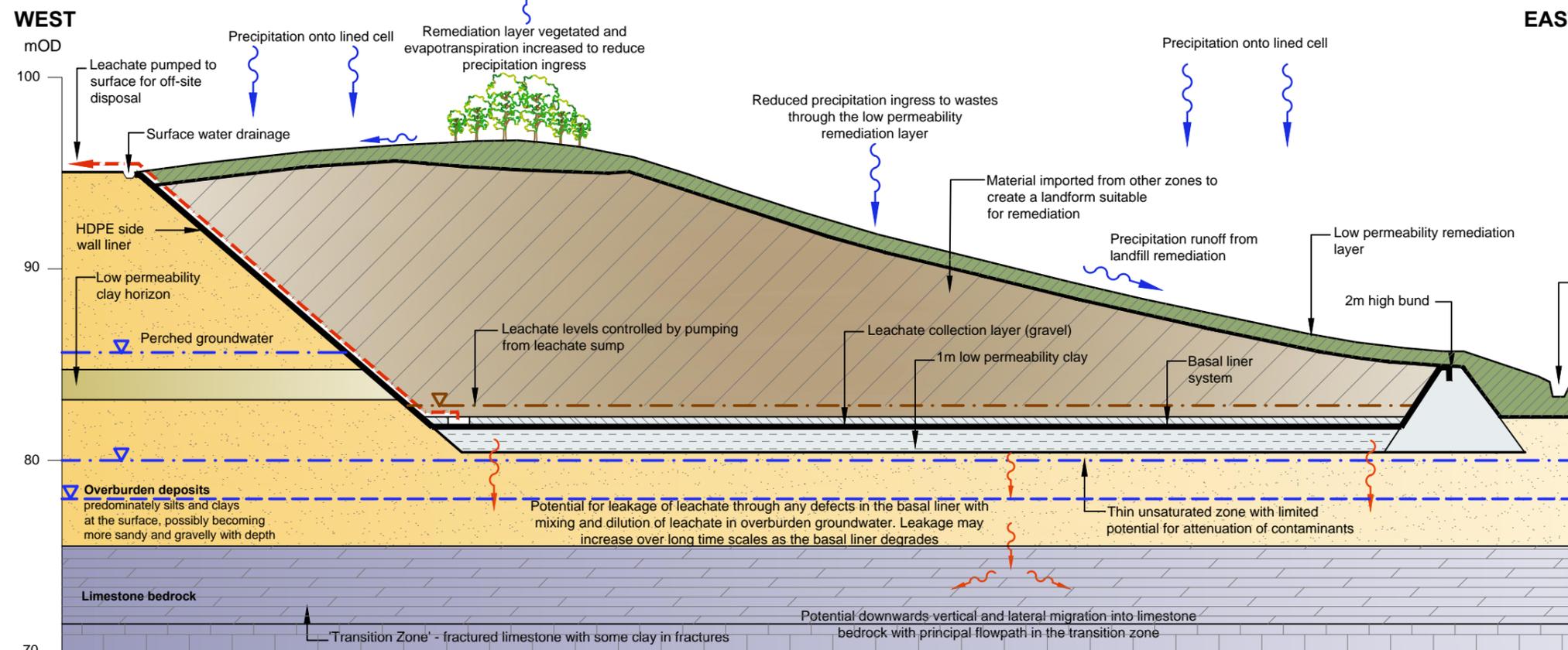
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**Groundwater Conceptual Site Model for Zone 3: Current Scenario**



**Groundwater Conceptual Site Model for Zone 3: Post Remediation**

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Client: Kildare County Council  
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Project: KERDIFFSTOWN LANDFILL  
REMEDATION PROJECT

Drawing title: **FIGURE 12.26**  
HYDROGEOLOGY CONCEPTUAL  
SITE MODEL (ZONE 3)

Drawing status: EIAR SUBMISSION

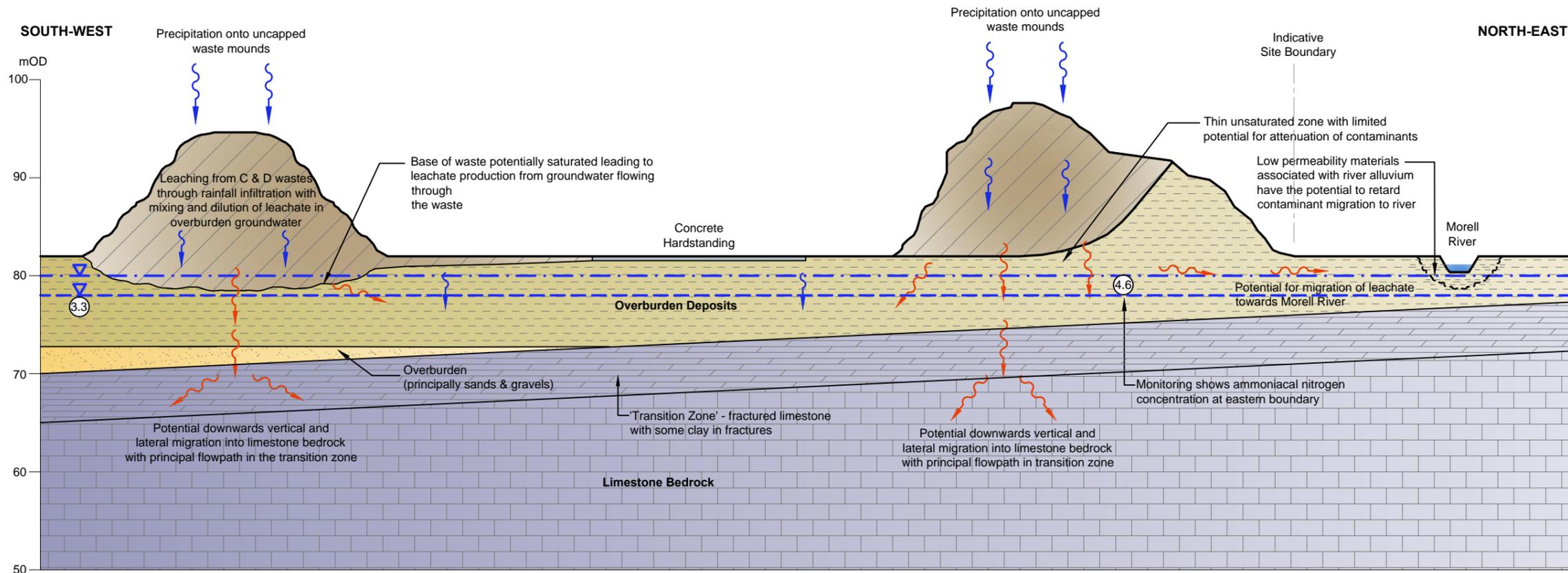
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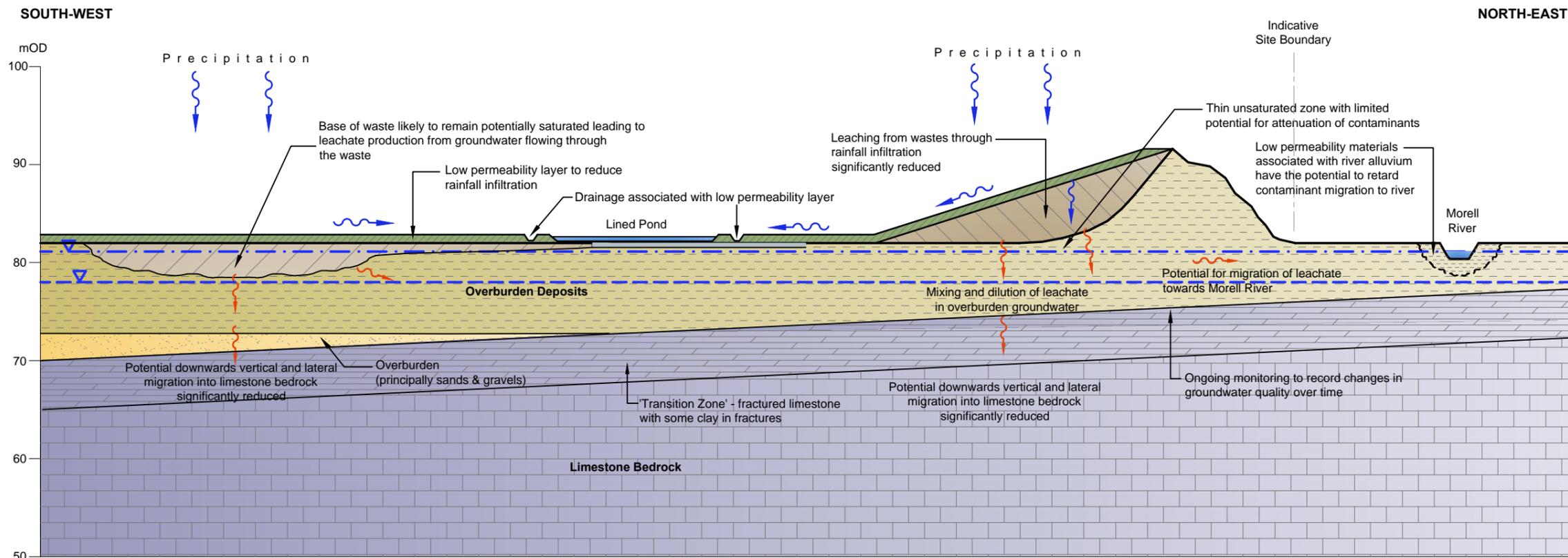
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**KEY:**

- Groundwater Level in the Overburden
- Groundwater Head in the Limestone Bedrock
- Migrating Leachate
- Ammoniacal Nitrogen Concentration July 2016 (mg/l)

Groundwater Conceptual Site Model for Zone 4: Current Scenario



Groundwater Conceptual Site Model for Zone 4: Post Remediation

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Client  
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Project  
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REMEDATION PROJECT

Drawing title  
**FIGURE 12.27**  
HYDROGEOLOGY CONCEPTUAL  
SITE MODEL (ZONE 4)

Drawing status  
EIAR SUBMISSION

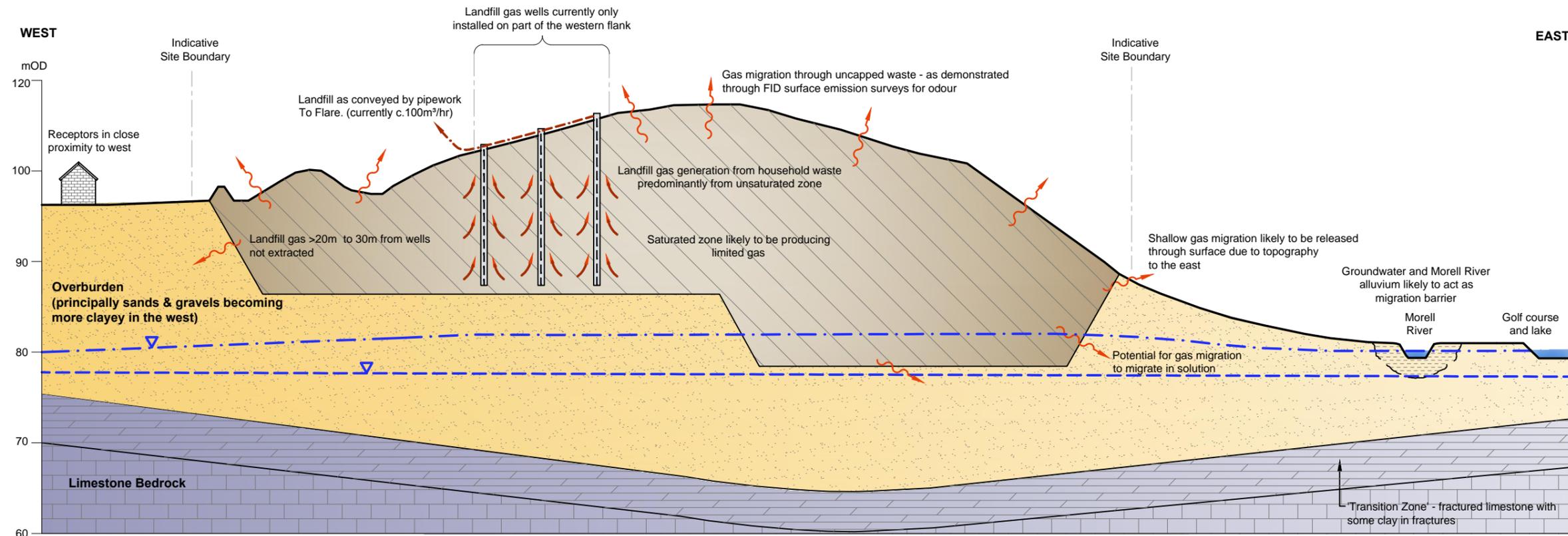
Scale  
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Client No. 6286

Drawing number 32EW5604-00-019 Rev 2

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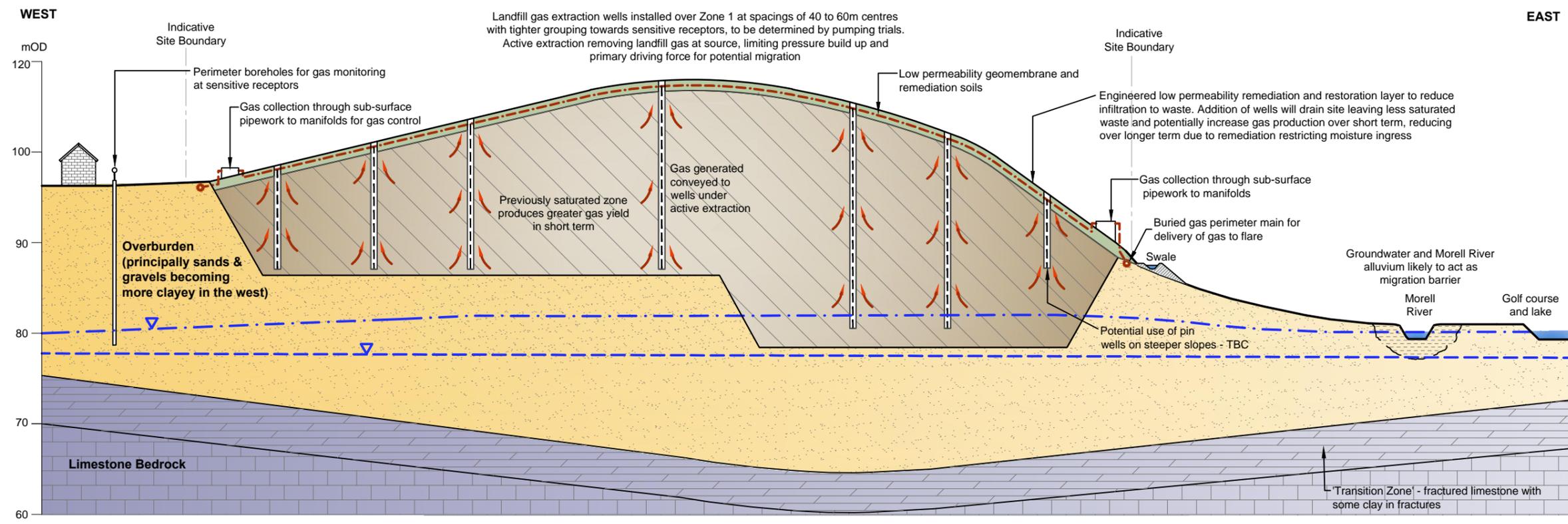
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**KEY:**

	Groundwater Level in the Overburden
	Groundwater Head in the Limestone Bedrock

Gas Conceptual Site Model for Zone 1: Current Scenario



Gas Conceptual Site Model for Zone 1: Post Remediation

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Client: Kildare County Council  
Comhairle Contae Chill Dara

Project: KERDIFFSTOWN LANDFILL REMEDIATION PROJECT

Drawing title: **FIGURE 12.28**  
LANDFILL GAS MANAGEMENT  
CONCEPTUAL SITE MODEL (ZONE 1)

Drawing status: EIAR SUBMISSION

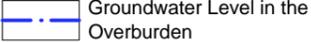
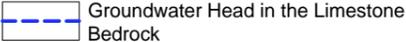
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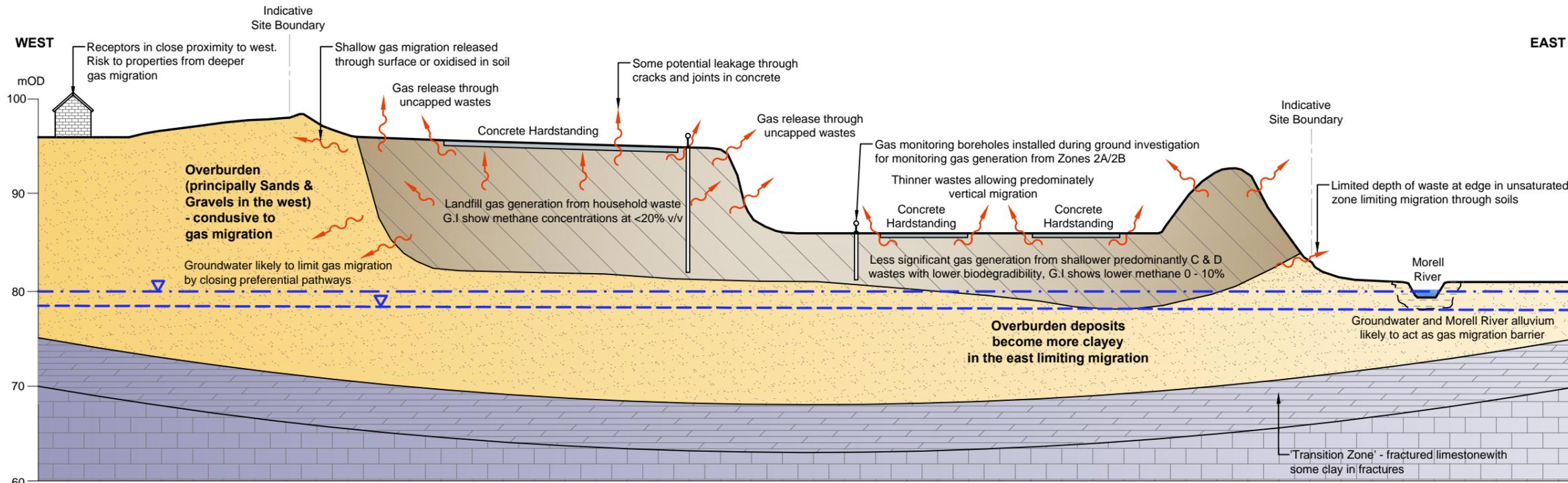
Jacobs No.: 32EW5604  
Client No.: 6286

Drawing number: 32EW5604-00-039 Rev 2

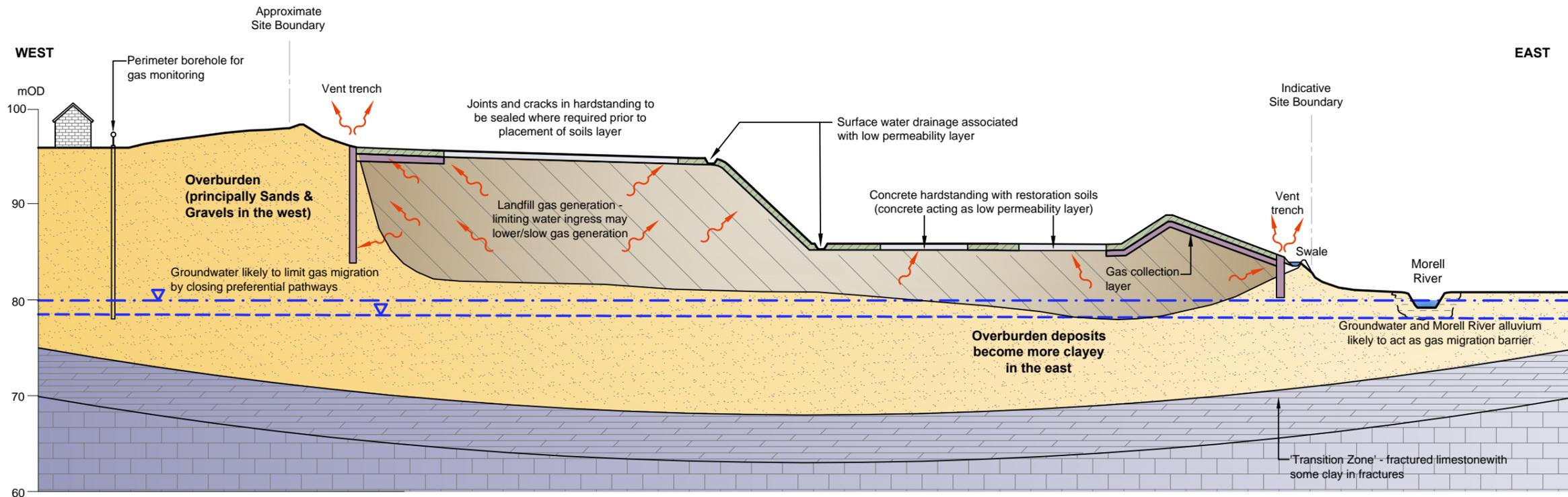
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**KEY:**  
 Groundwater Level in the Overburden  
 Groundwater Head in the Limestone Bedrock



**Gas Conceptual Site Model for Zone 2A/B: Current Scenario**



**Gas Conceptual Site Model for Zone 2A/B: Post Remediation**

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Client:  **Kildare County Council**  
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Project: **KERRIFFSTOWN LANDFILL REMEDIATION PROJECT**

Drawing title: **FIGURE 12.29 LANDFILL GAS MANAGEMENT CONCEPTUAL SITE MODEL (ZONE 2)**

Drawing status: **EIAR SUBMISSION**

Scale: NTS [A3] DETAILS SHOWN ARE NOT FOR CONSTRUCTION PURPOSES HENCE DRAWING SHOULD NOT BE SCALED

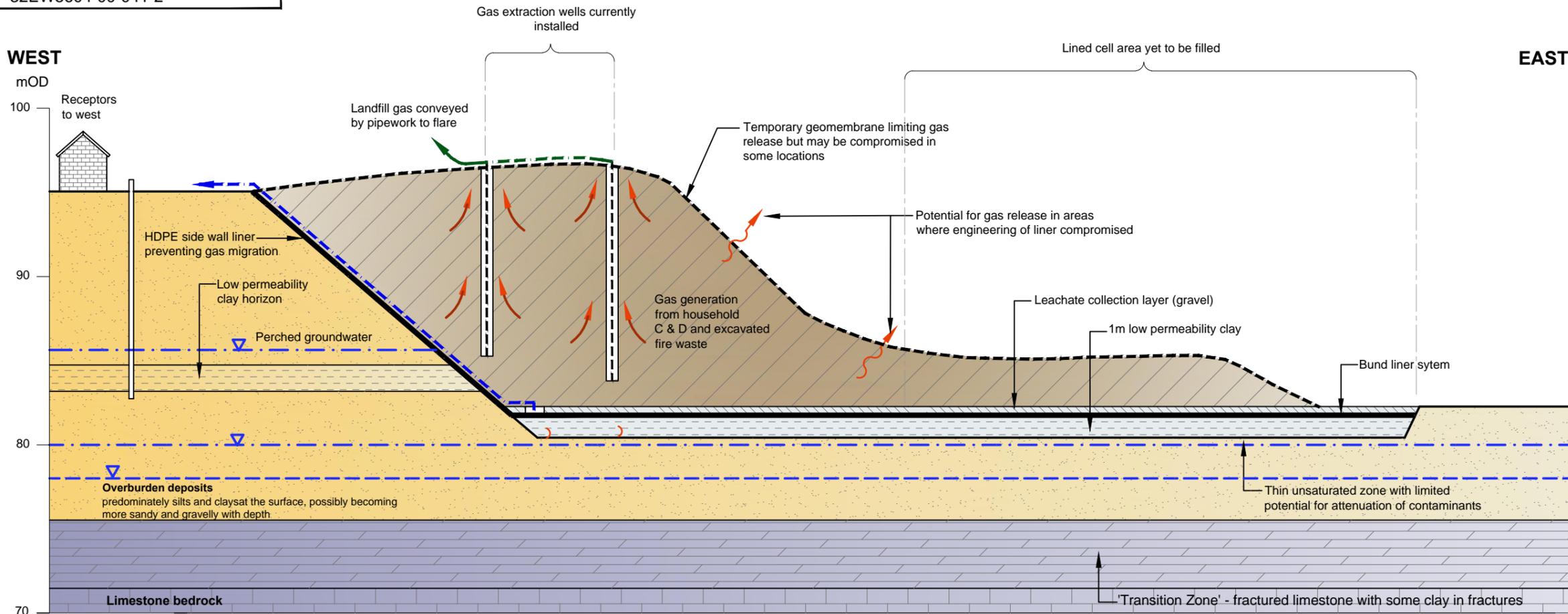
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Client No. 6286

Drawing number: **32EW5604-00-040** Rev **2**

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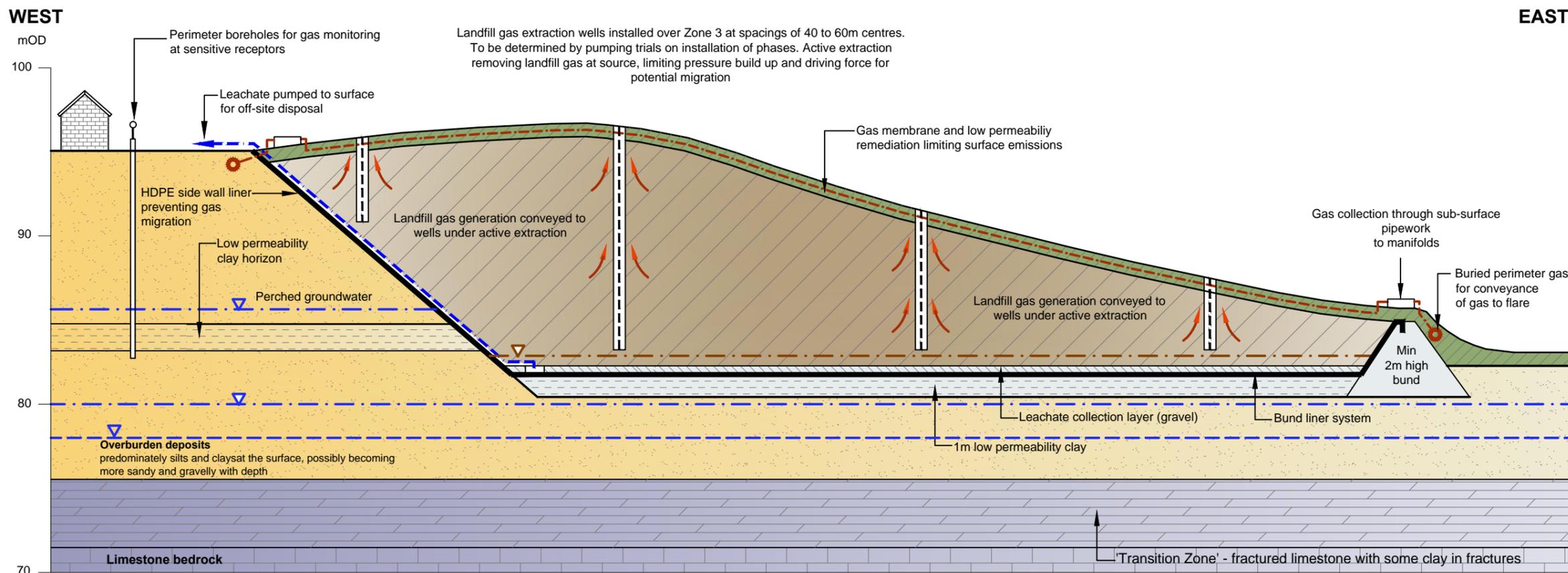
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KEY:

	Groundwater Level in the Overburden
	Groundwater Head in the Limestone Bedrock

**Gas Conceptual Site Model for Zone 3: Current Scenario**



**Gas Conceptual Site Model for Zone 3: Post Remediation**

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0	17/08/2016	DRAFT EIS SUBMISSION	AR	SC	CD	RR
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Client: Kildare County Council  
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Project: KERDIFFSTOWN LANDFILL REMEDIATION PROJECT

Drawing title: **FIGURE 12.30**  
LANDFILL GAS MANAGEMENT  
CONCEPTUAL SITE MODEL (ZONE 3)

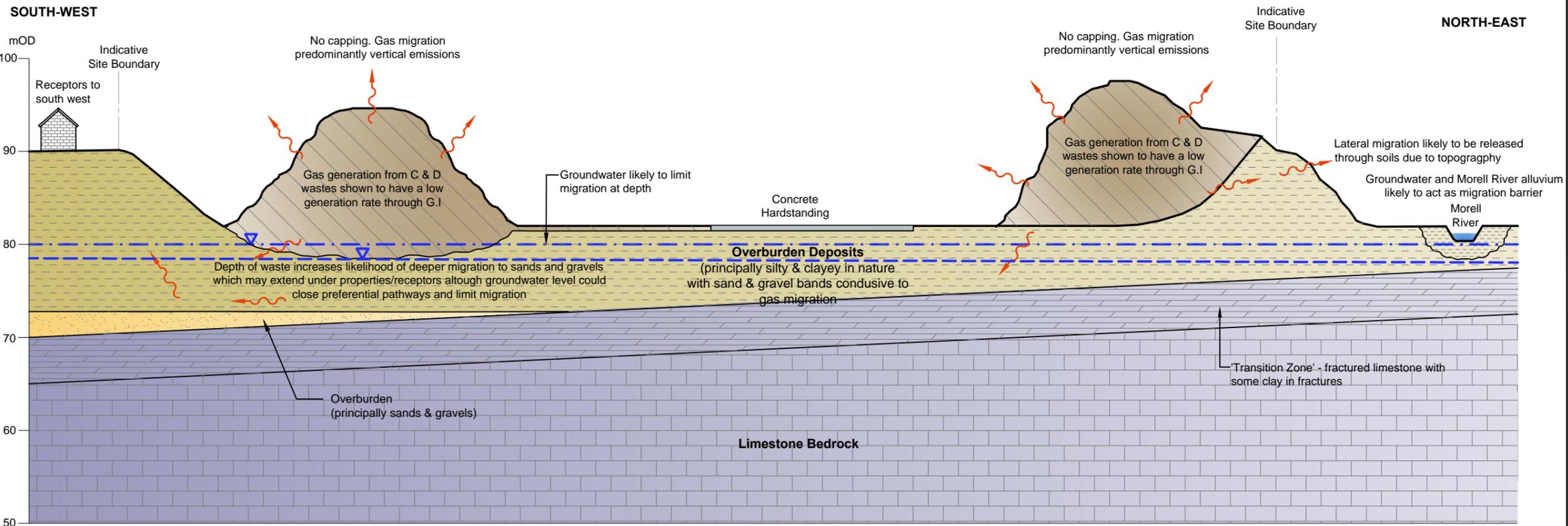
Drawing status: EIAR SUBMISSION

Scale: NTS [A3] DETAILS SHOWN ARE NOT FOR CONSTRUCTION PURPOSES HENCE DRAWING SHOULD NOT BE SCALED

Jacobs No. 32EW5604  
Client No. 6286

Drawing number: 32EW5604-00-041  
Rev: 2

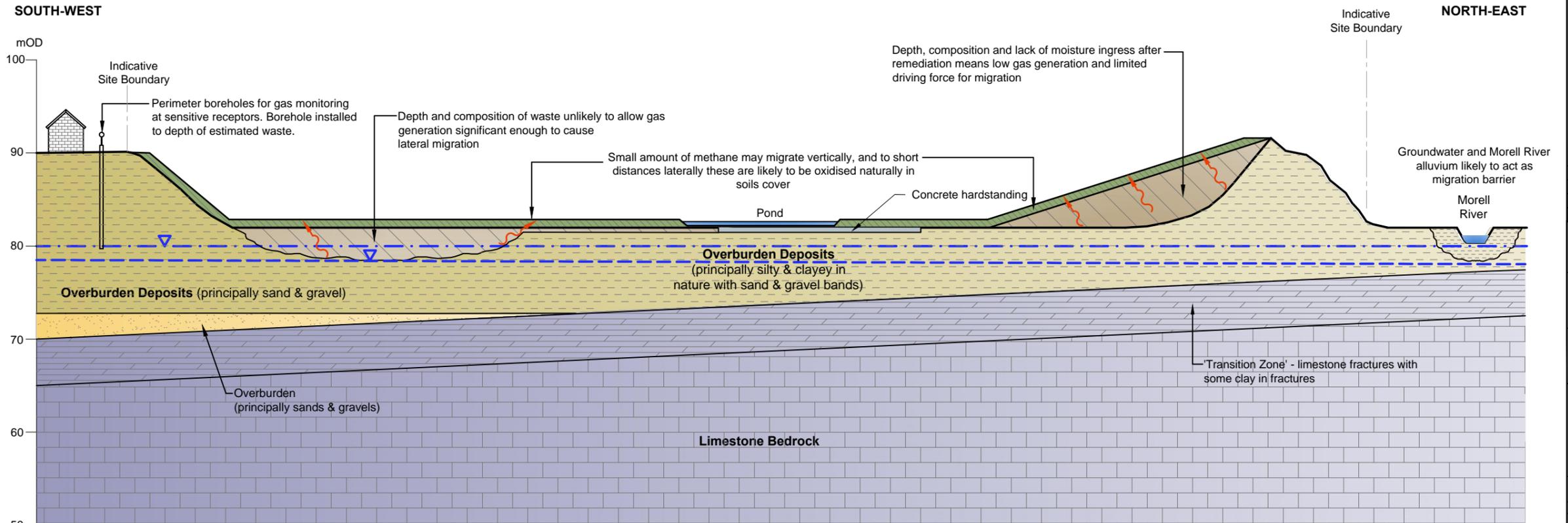
This drawing is not to be used in whole or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



**KEY:**

	Groundwater Level in the Overburden
	Groundwater Head in the Limestone Bedrock

Gas Conceptual Site Model for Zone 4: Current Scenario



Gas Conceptual Site Model for Zone 4: Post Remediation

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
2	07/08/2017	EIAR SUBMISSION	AR	CD	CD	RR
1	30/06/2017	EIAR SUBMISSION	KMA	CD	CD	RR
0	17/08/2016	DRAFT EIS SUBMISSION	AR	SC	CD	RR



Client: Kildare County Council  
Comhairle Contae Chill Dara

Project: KERDIFFSTOWN LANDFILL REMEDIATION PROJECT

Drawing title: **FIGURE 12.31**  
LANDFILL GAS MANAGEMENT  
CONCEPTUAL SITE MODEL (ZONE 4)

Drawing status: EIAR SUBMISSION

Scale: NTS [A3] DETAILS SHOWN ARE NOT FOR CONSTRUCTION PURPOSES HENCE DRAWING SHOULD NOT BE SCALED

Jacobs No.: 32EW5604  
Client No.: 6286

Drawing number: 32EW5604-00-042 Rev: 2

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KEY:

-  Inferred Waste Boundary
-  50m Buffer from Waste Boundary
-  250m Buffer from Waste Boundary
-  On-site Buildings and Buildings within 50m of the Waste Boundary (High Sensitivity)
-  Buildings within 250m of the Waste Boundary (Medium Sensitivity)
-  Gardens/Amentiy within 50m of the Waste Boundary (Low Sensitivity)
-  Land within Site Boundary and within 50m of Waste Boundary
-  Water Main
-  Gas Pipeline
-  Electricity Cables

NOTES:

1. Refer to Drawing Number 32EW5604/804 P0 for Receptor identification numbers.



2	07/08/2017	SIAR SUBMISSION	AR	CD	CD	RR
1	30/06/2017	SIAR SUBMISSION	KMA	CD	CD	RR
0	26/09/2016	DRAFT SIAR SUBMISSION	AR	SC	CD	RR
Rev	Rev. Date	Purpose of revision	Drawn	Check	Rev'd	Appr'd



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Client  
 Kildare County Council  
Comhairle Contae Chill Dara

Project  
KERDIFFSTOWN LANDFILL  
REMEDATION PROJECT

Drawing title  
**FIGURE 12.32**  
LANDFILL GAS MANAGEMENT  
RECEPTORS

Drawing status  
SIAR SUBMISSION

Scale  
AS SHOWN (DETAILS SHOWN ARE NOT FOR CONSTRUCTION PURPOSES HENCE DRAWING SHOULD NOT BE SCALED)

Jacobs No. 32EW5604

Client No. 6286

Drawing number  
32EW5604-00-038

Rev  
2

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