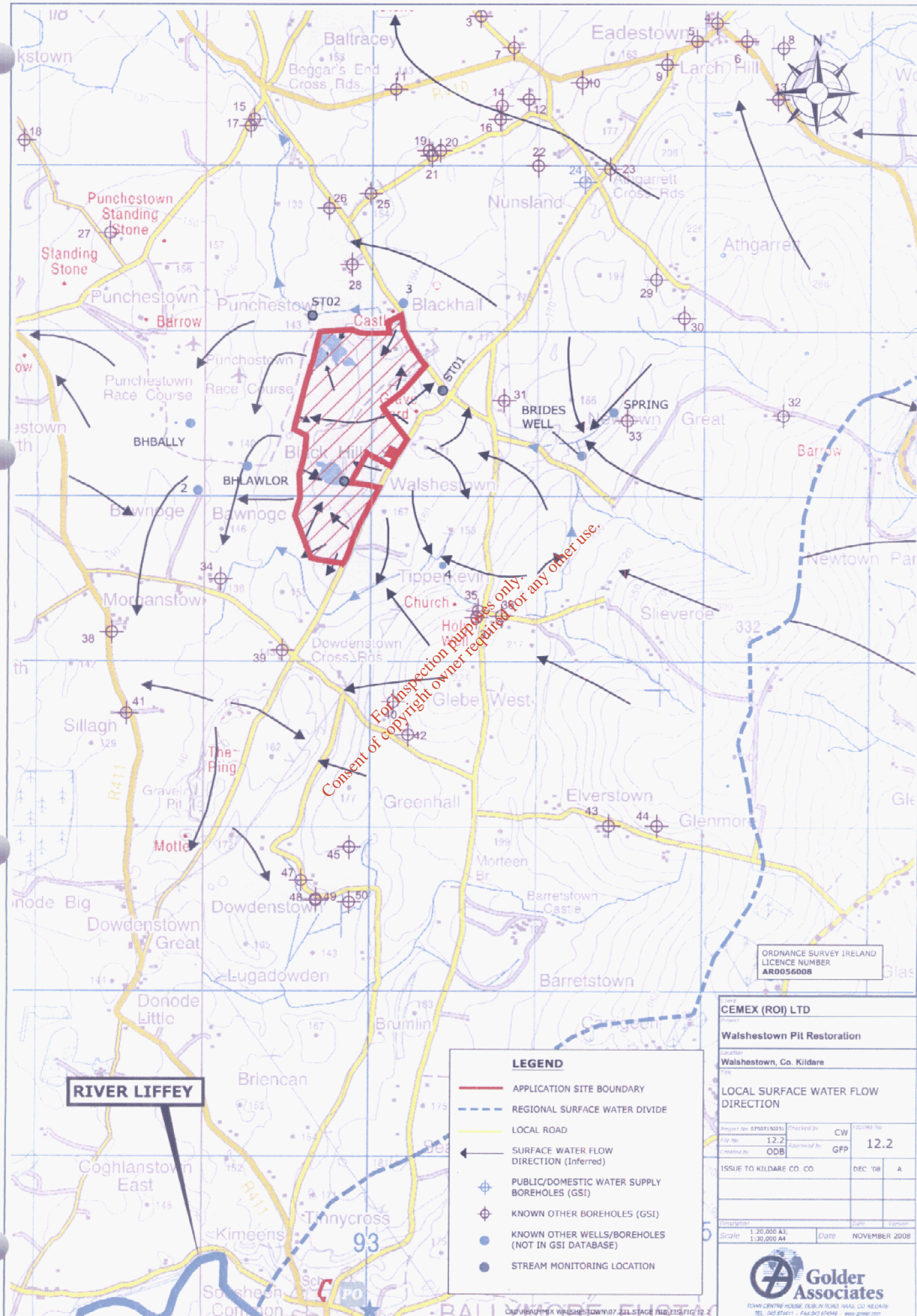


 Golder Associates <small>CONSULTING ENGINEERS AND ARCHITECTS</small> <small>TEL: 087 5641777 / 01524 51550 / www.golder.com</small>	Client: CEMEX (ROI) LTD Location: WALSHESTOWN, CO. KILDARE Project: WALSHESTOWN PIT RESTORATION	Project number: 07507150231 File location: C:\AR0056008\WALSHESTOWN\07.31_STAGE1\IBIBS\FIG.12.1 ORDNANCE SURVEY IRELAND LICENCE NUMBER: AR0056008	Created by: CC Engineer: CW Reviewed by: GFP	Issue to: KILDARE CO. CO	Date: DEC. 08 Version: A	Title: REGIONAL SURFACE WATER FLOW DIRECTION Scale: 1:50,000 A3 1:75,000 A4	Figure No.: 12.1
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ORDNANCE SURVEY IRELAND
LICENCE NUMBER
AR0056008

Client: **CEMEX (ROI) LTD**
Project: **Walleshstown Pit Restoration**

Location: **Walleshstown, Co. Kildare**
Title: **LOCAL SURFACE WATER FLOW DIRECTION**

Project No: 0750715031
Scale No: 12.2
Created by: ODB
Checked by: CW
Approved by: GFP
FIGURE No: 12.2

ISSUE TO KILDARE CO. CO. DEC '08 A

Scale: 1:20,000 A3; 1:30,000 A4
Date: NOVEMBER 2008



LEGEND

- APPLICATION SITE BOUNDARY
- - - REGIONAL SURFACE WATER DIVIDE
- LOCAL ROAD
- ← SURFACE WATER FLOW DIRECTION (Inferred)
- ⊕ PUBLIC/DOMESTIC WATER SUPPLY BOREHOLES (GSI)
- ⊕ KNOWN OTHER BOREHOLES (GSI)
- KNOWN OTHER WELLS/BOREHOLES (NOT IN GSI DATABASE)
- STREAM MONITORING LOCATION

RIVER LIFFEY



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ORDNANCE SURVEY IRELAND
LICENCE NUMBER
AR0056008

CEMEX (ROI) LTD
Project
Walshestown Pit Restoration

Location
Walshestown, Co. Kildare

Title
EXISTING WATER MONITORING LOCATIONS

Project No. 07507190231	Checked by CW	Scale No.
File No. 12.3	Approved by GFP	12.3
Created by ODB		

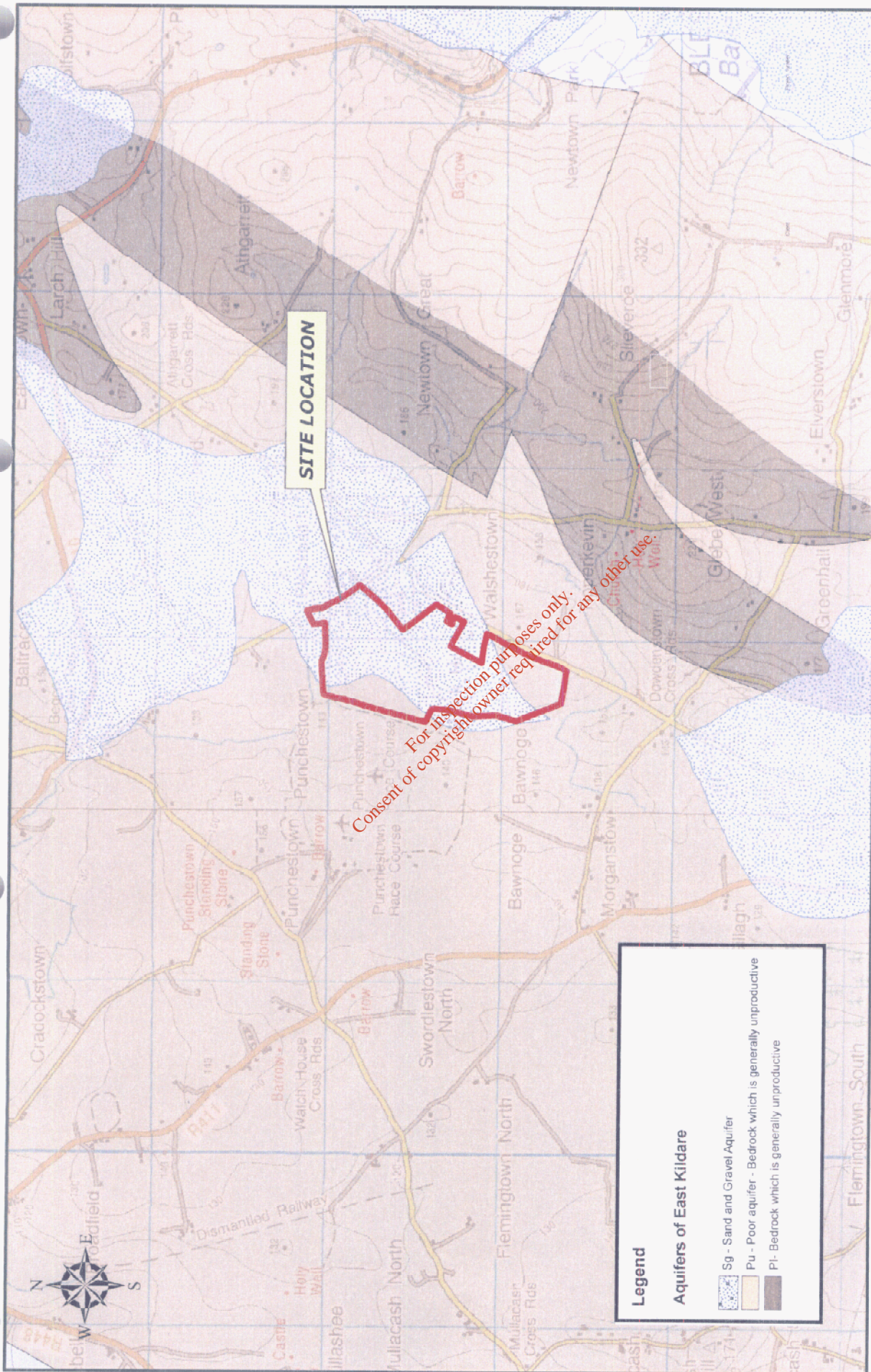
ISSUE TO KILDARE CO. CO	DEC '08	A
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Scale 1:10,000A3 1:15,000A4	Date NOVEMBER 2008
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LEGEND

- APPLICATION SITE BOUNDARY
- - - TOWNLAND BOUNDARY
- REGIONAL ROAD
- LOCAL ROAD
- SURFACE WATER FEATURE
- WM MAINS WATER SUPPLY
- - - GROUP WATER SCHEME
- WATER BODY
- + MONITORED BOREHOLE
- SURFACE WATER MONITORING LOCATION

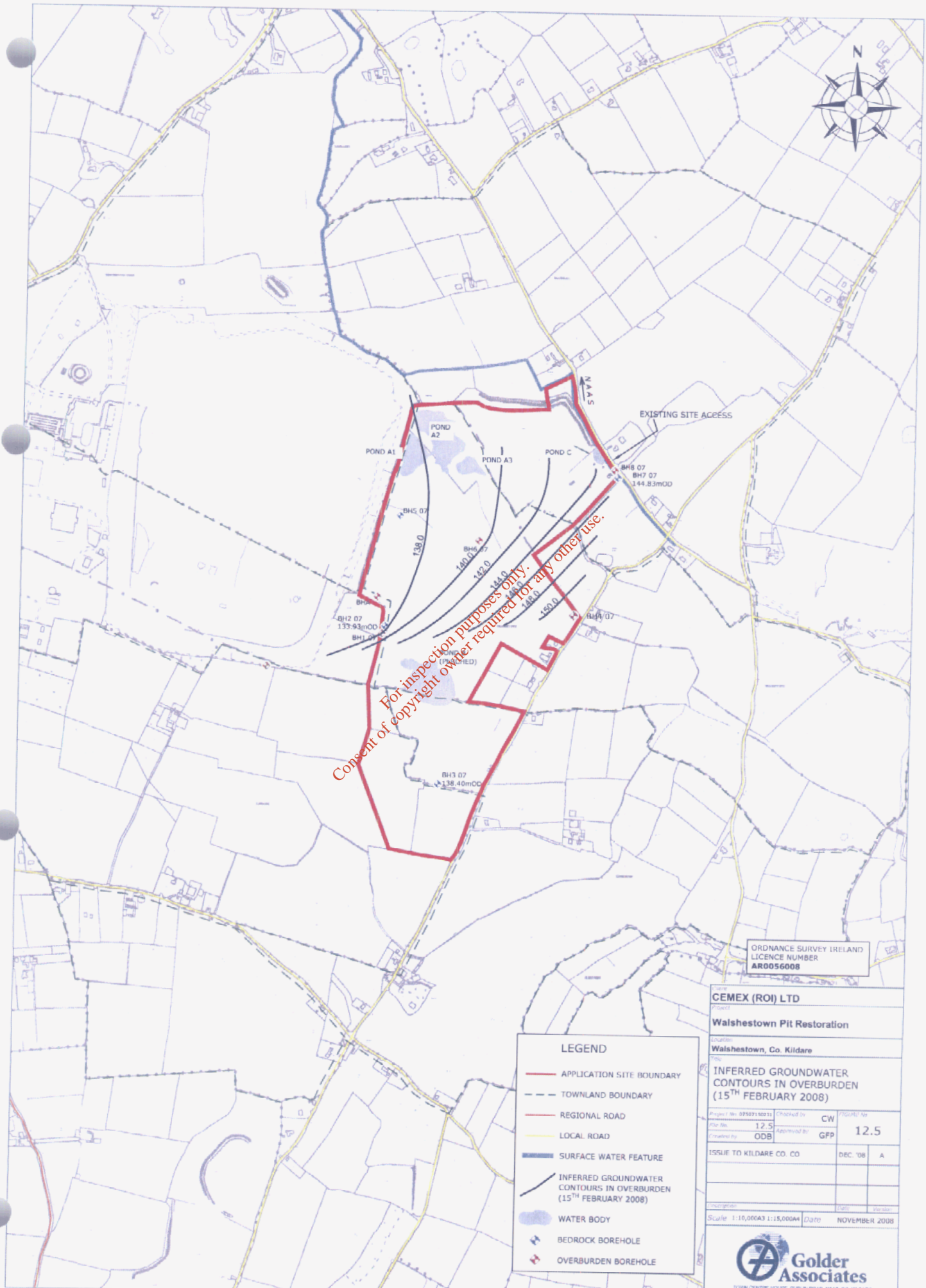




37507150231 File Location GIS PROJECTS\WALSHESTOWN EIS 1.2.3 ORDNANCE SURVEY OF IRELAND LICENCE NUMBER AR0056008	Created by AS Checked by PK Approved by BB	Issue to Kildare County Council	Date Dec-08	Revision A	Title AQUIFER CLASSIFICATION	Figure No. 12.4
<p>CEMEX (Ireland) LTD Location WALSHESTOWN, CO. KILDARE Project WALSHESTOWN PIT RESTORATION</p> <p>Golder Associates TOWN CENTRE HOUSE, DUBLIN ROAD, NAAS, CO. KILDARE TEL: 045 874411 - FAX: 045 874549 - www.golder.com</p>						



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ORDNANCE SURVEY IRELAND
LICENCE NUMBER
AR0056008

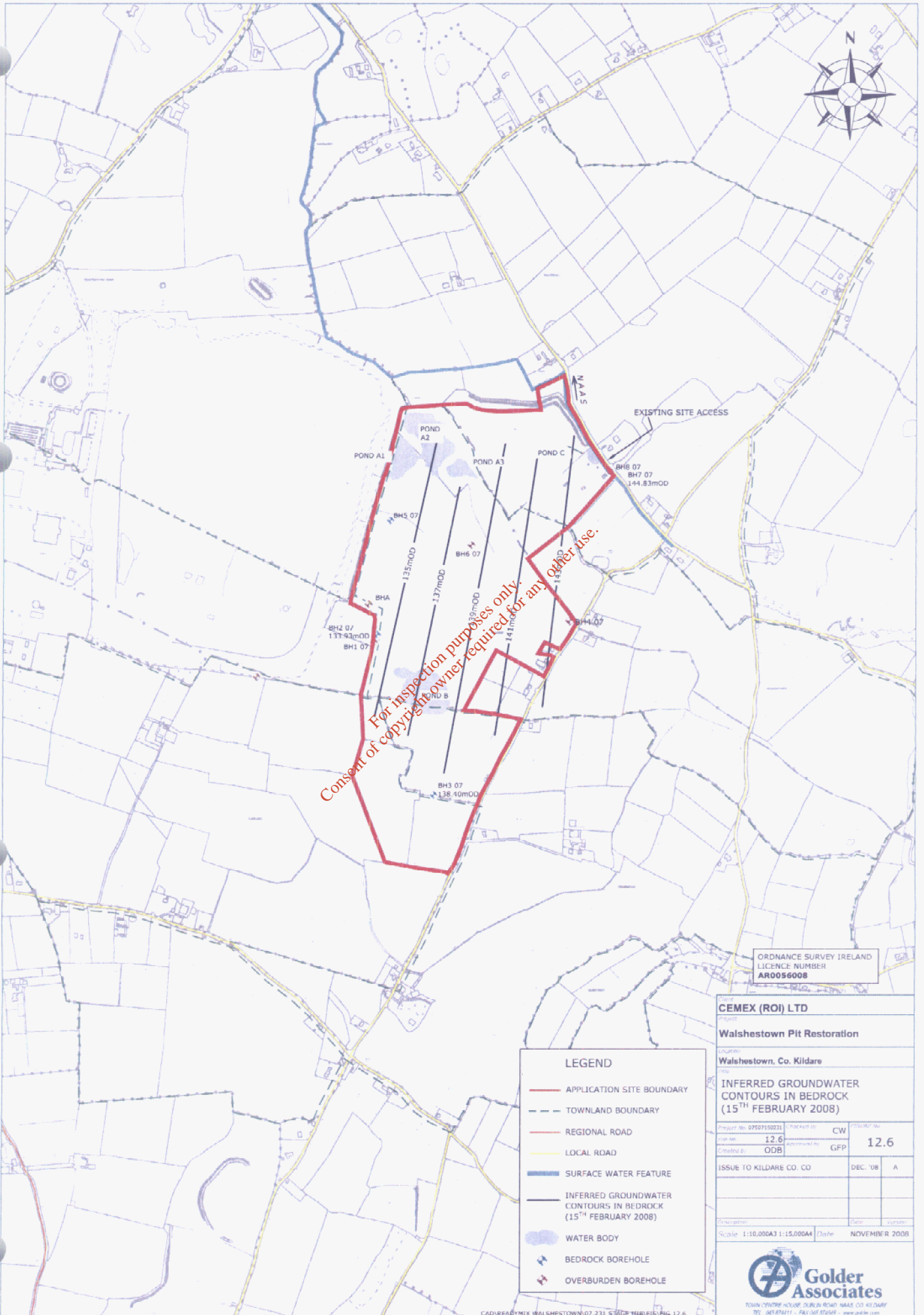
LEGEND	
—	APPLICATION SITE BOUNDARY
---	TOWNLAND BOUNDARY
—	REGIONAL ROAD
—	LOCAL ROAD
—	SURFACE WATER FEATURE
—	INFERRED GROUNDWATER CONTOURS IN OVERBURDEN (15 TH FEBRUARY 2008)
●	WATER BODY
H	BEDROCK BOREHOLE
H	OVERBURDEN BOREHOLE

CEMEX (ROI) LTD			
Project: Walshestown Pit Restoration			
Location: Walshestown, Co. Kildare			
Title: INFERRED GROUNDWATER CONTOURS IN OVERBURDEN (15TH FEBRUARY 2008)			
Project No: 07507100231	Checked by: CW	Scale: 12.5	Issue No: 12.5
File No: 12.5	Approved by: GPP		
Created by: ODB			
ISSUE TO KILDARE CO. CO	DEC. '08	A	
Scale: 1:10,000A3 1:15,000A4	Date: NOVEMBER 2008		




CAD:READYMIX WALSHESTOWN\07.231 SITE THRESHOLD.FIG.12.6

TOWN CENTRE HOUSE, DUBLIN ROAD, NAAS, CO. KILDARE
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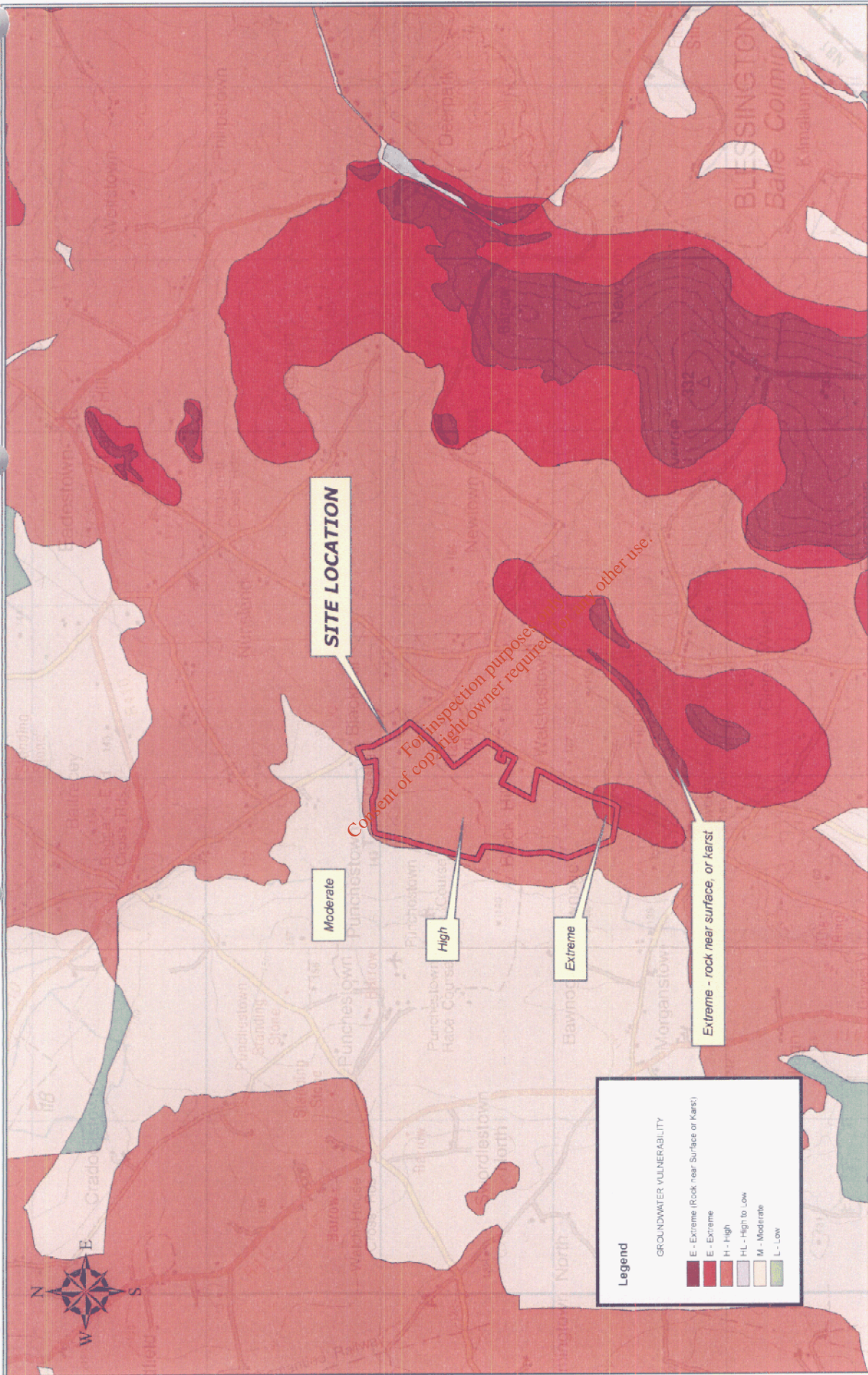


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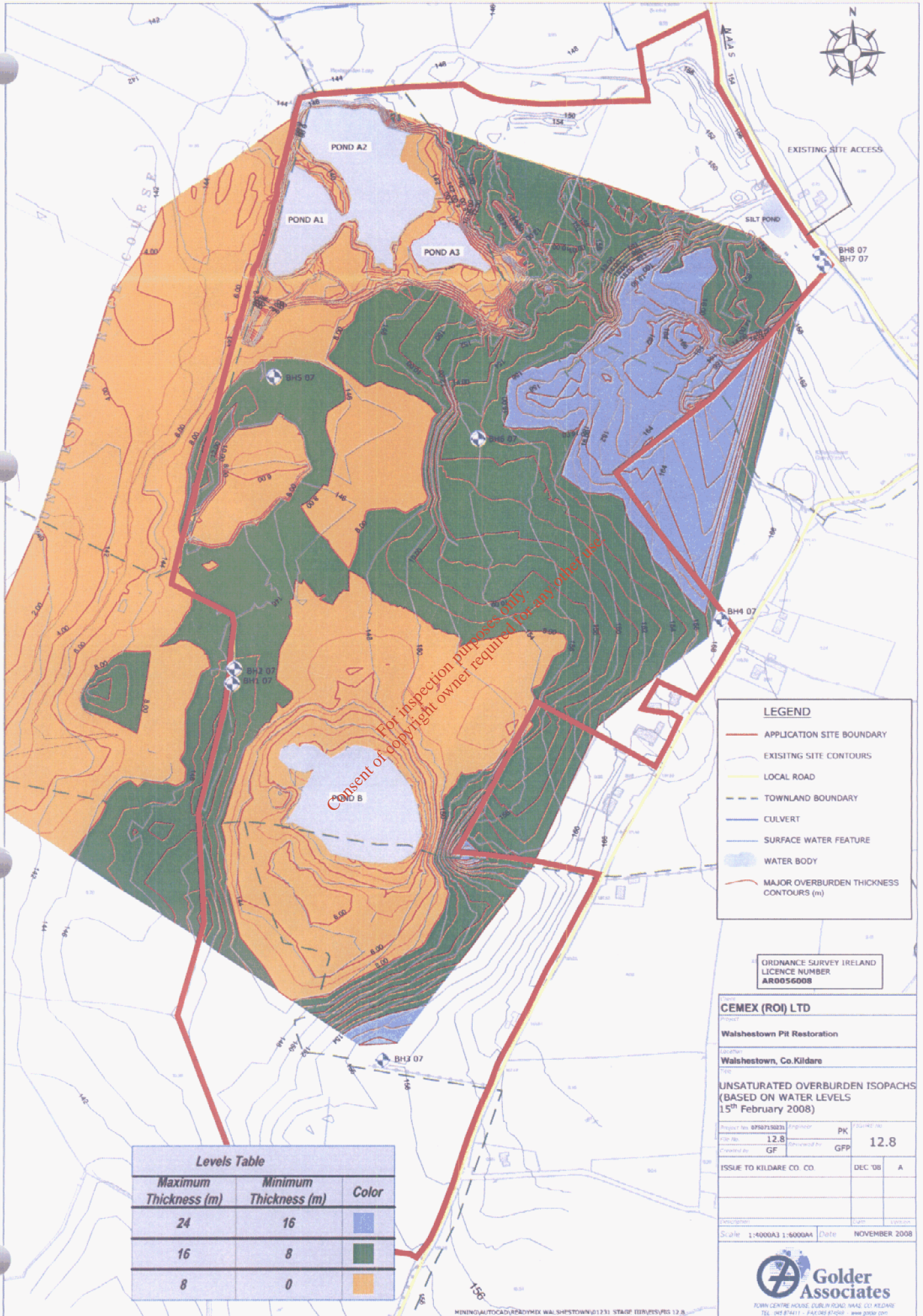
ORDNANCE SURVEY IRELAND
LICENCE NUMBER
AR0056008

CEMEX (ROI) LTD	
Project Walshestown Pit Restoration	
Location Walshestown, Co. Kildare	
INFERRED GROUNDWATER CONTOURS IN BEDROCK (15TH FEBRUARY 2008)	
Project No: 0750150021	Checked by: CW
Issue No: 12.6	Approved by: GFP
Created by: ODB	12.6
ISSUE TO KILDARE CO. CO	DEC. '08 A
Drawn by:	Date:
Scale: 1:10,000A3 1:15,000A4	Date: NOVEMBER 2008
	
TOWN CENTRE HOUSE, DUBLIN ROAD, NAAS, CO. KILDARE TEL: 461874111 - FAX: 46187468 - www.golder.com	

LEGEND	
	APPLICATION SITE BOUNDARY
	TOWNLAND BOUNDARY
	REGIONAL ROAD
	LOCAL ROAD
	SURFACE WATER FEATURE
	INFERRED GROUNDWATER CONTOURS IN BEDROCK (15 TH FEBRUARY 2008)
	WATER BODY
	BEDROCK BOREHOLE
	OVERBURDEN BOREHOLE



<p>Golder Associates TOWN CENTRE HOUSE, DUBLIN ROAD, MAAS, CO. KILDARE TEL: 015 874411 - FAX: 015 874549 - www.golder.com</p>	<p>Client: CEMEX (ROI) LTD Location: WALSHSTOWN, CO. KILDARE Project: WALSHSTOWN PT RESTORATION</p>	<p>Project number: 07507150231 File Location: GIS PROJECTS\WALSHSTOWN\WIBS 12.4 ORDNANCE SURVEY OF IRELAND LICENCE NUMBER: AR0056008</p>	<p>Created by: AS Checked by: CW Approved by: GFP</p>	<p>Issue to: Kildare County Council</p>	<p>Date: Dec 08</p>	<p>Revision: A</p>	<p>Title: AQUIFER VULNERABILITY (Source: GSI)</p>	<p>Figure No: 12.7</p>
	<p>Scale: 1:30,000 A4</p>							



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Levels Table		
Maximum Thickness (m)	Minimum Thickness (m)	Color
24	16	
16	8	
8	0	

LEGEND	
—	APPLICATION SITE BOUNDARY
—	EXISTING SITE CONTOURS
—	LOCAL ROAD
- - -	TOWNLAND BOUNDARY
—	CULVERT
—	SURFACE WATER FEATURE
	WATER BODY
—	MAJOR OVERBURDEN THICKNESS CONTOURS (m)

ORDNANCE SURVEY IRELAND
LICENCE NUMBER
AR0056008

CEMEX (ROI) LTD			
Project: Walshestown PR Restoration			
Location: Walshestown, Co. Kildare			
Title: UNSATURATED OVERBURDEN ISOPACHS (BASED ON WATER LEVELS 15th February 2008)			
Project No: 07507150231	Engineer: PK	Scale: 12.8	Sheet No: 12.8
Site No: 12.8	Drawn by: GPP		
Created by: GF			
ISSUE TO KILDARE CO. CO.	DEC '08	A	
Author:	Drawn:	Checked:	Scale:
Scale: 1:4000A3 1:6000A4	Date: NOVEMBER 2008		



TOWN CENTRE HOUSE, DUBLIN ROAD, WALES, CO. KILDARE
TEL: 051 874411 - FAX: 051 874412 - www.golder.com

ATTACHMENT 12.1
WATER QUALITY DATA: JANUARY AND APRIL 2008

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