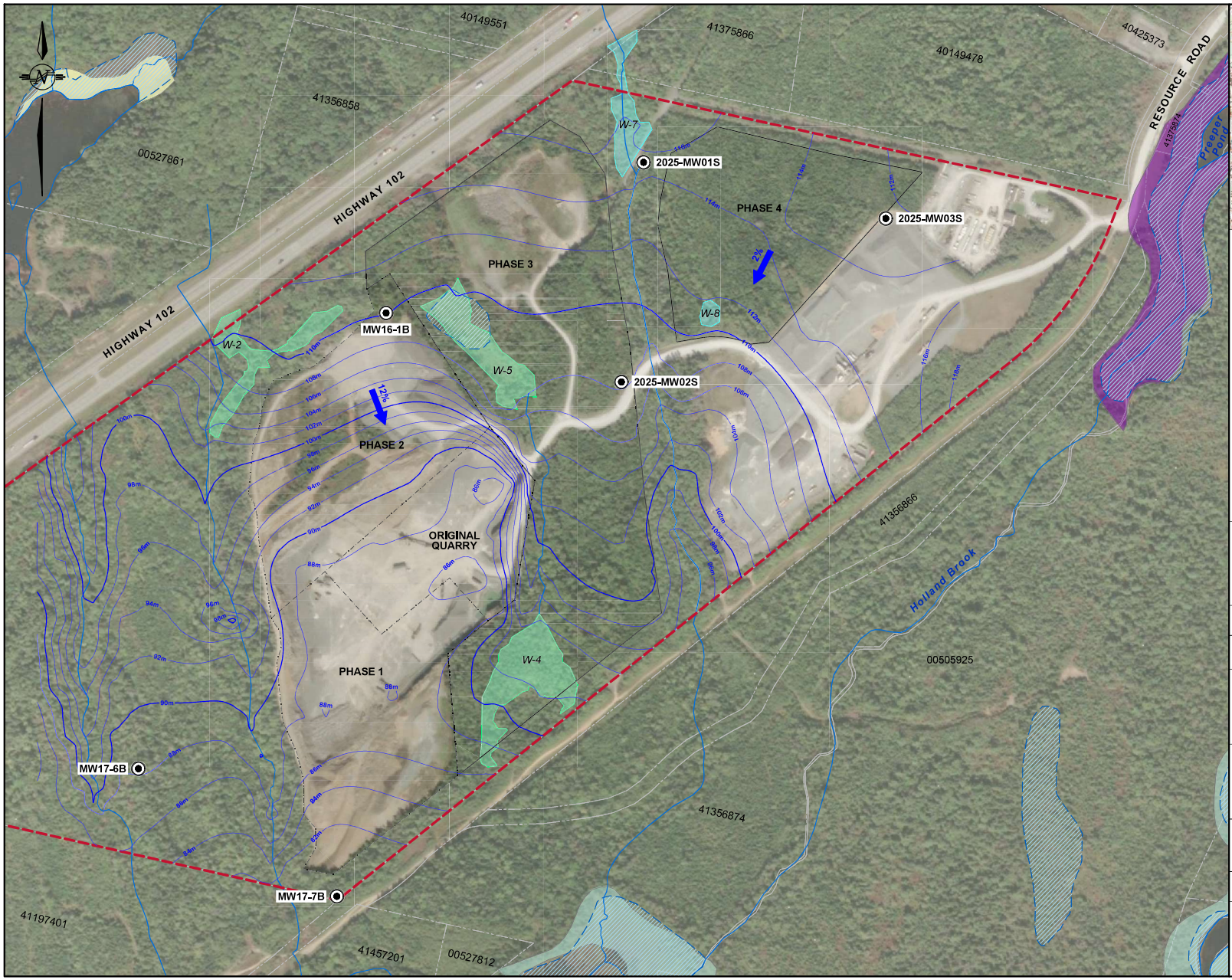
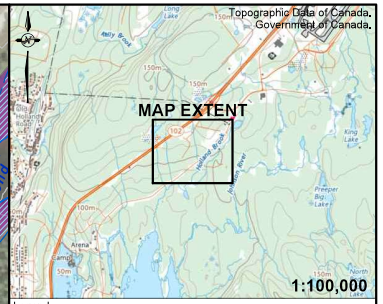
APPENDIX C

Hydrogeology





Legend

- SHALLOW MONITORING WELL
- GROUNDWATER FLOW DIRECTION AND GRADIENT
- GROUNDWATER CONTOUR
- PROPERTY LINE
- WATERCOURSE AND WATER BODY
- SWAMP
- DELINEATED WETLAND, 2025 GEMTEC
- PREVIOUSLY DELINEATED WETLAND
- EXISTING PHASE BOUNDARY
- PHASE 3 AND 4 BOUNDARY
- SITE BOUNDARY

NS ECC WETLAND INVENTORY

- BOG OR FEN
- MARSH
- SWAMP

General Notes

1. This drawing is a schematic representation. Sizes, locations and dimensions are approximate.
2. Coordinate system: NAD83 (CSRS)v6 / UTM zone 20N.
3. Aerial photograph from 2025. Source: Vantor.
4. Nova Scotia topographic database information is reproduced and distributed with the permission of internal services, NS.

Date	Drawn by	Checked by
SEPTEMBER 2026	CHG	RM

Client: SCOTIAN MATERIALS LTD.

Project: ENVIROMENTAL ASSESSMENT
GOFFS QUARRY
EXPANSION PHASES 3 AND 4
SCOTIAN MATERIALS LIMITED, GOFFS, NS

Drawing: SHALLOW GROUNDWATER ELEVATION

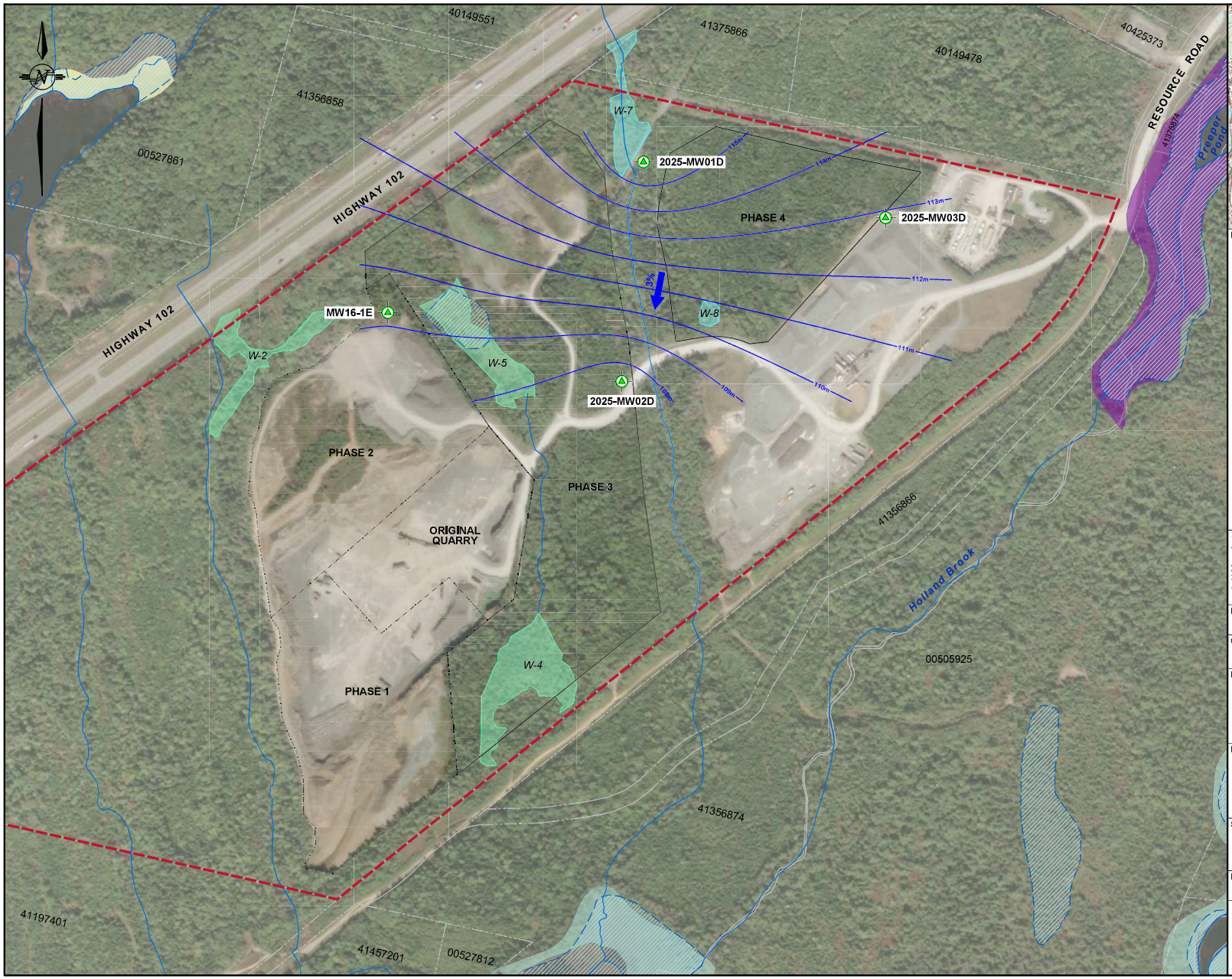
Scale: 1:5000

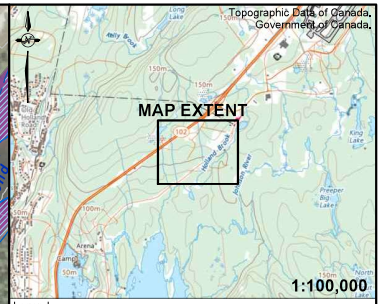
0 50 150 250 m

Project No.	Drawing No.	Rev. No.
103269.002	FIGURE C1-1	0

GEMTEC
Consulting Engineers and Scientists

N:\Projects\103200\103269.002\06_Civil Drafting\Env-Goffs Quarry\01_CAD Files\103269.002_DWG_EA Goffs Quarry Expansion - Goffs NS_2026-09-20_Ver03.dwg





Legend

- DEEP MONITORING WELL
- GROUNDWATER FLOW DIRECTION AND GRADIENT
- GROUNDWATER CONTOUR
- PROPERTY LINE
- WATERCOURSE AND WATER BODY
- SWAMP
- W-# DELINEATED WETLAND, 2025 GEMTEC
- W-# PREVIOUSLY DELINEATED WETLAND
- EXISTING PHASE BOUNDARY
- PHASE 3 AND 4 BOUNDARY
- SITE BOUNDARY

NS ECC WETLAND INVENTORY

- BOG OR FEN
- MARSH
- SWAMP

General Notes

1. This drawing is a schematic representation. Sizes, locations and dimensions are approximate.
2. Coordinate system: NAD83 (CSRS)v6 / UTM zone 20N.
3. Aerial photograph from 2025. Source: Vantor.
4. Nova Scotia topographic database information is reproduced and distributed with the permission of internal services, NS.

Date	Drawn by	Checked by
SEPTEMBER 2026	CHG	RM

Client: SCOTIAN MATERIALS LTD.

Project: ENVIROMENTAL ASSESSMENT
GOFFS QUARRY
EXPANSION PHASES 3 AND 4
SCOTIAN MATERIALS LIMITED, GOFFS, NS

Drawing: DEEP GROUNDWATER ELEVATION

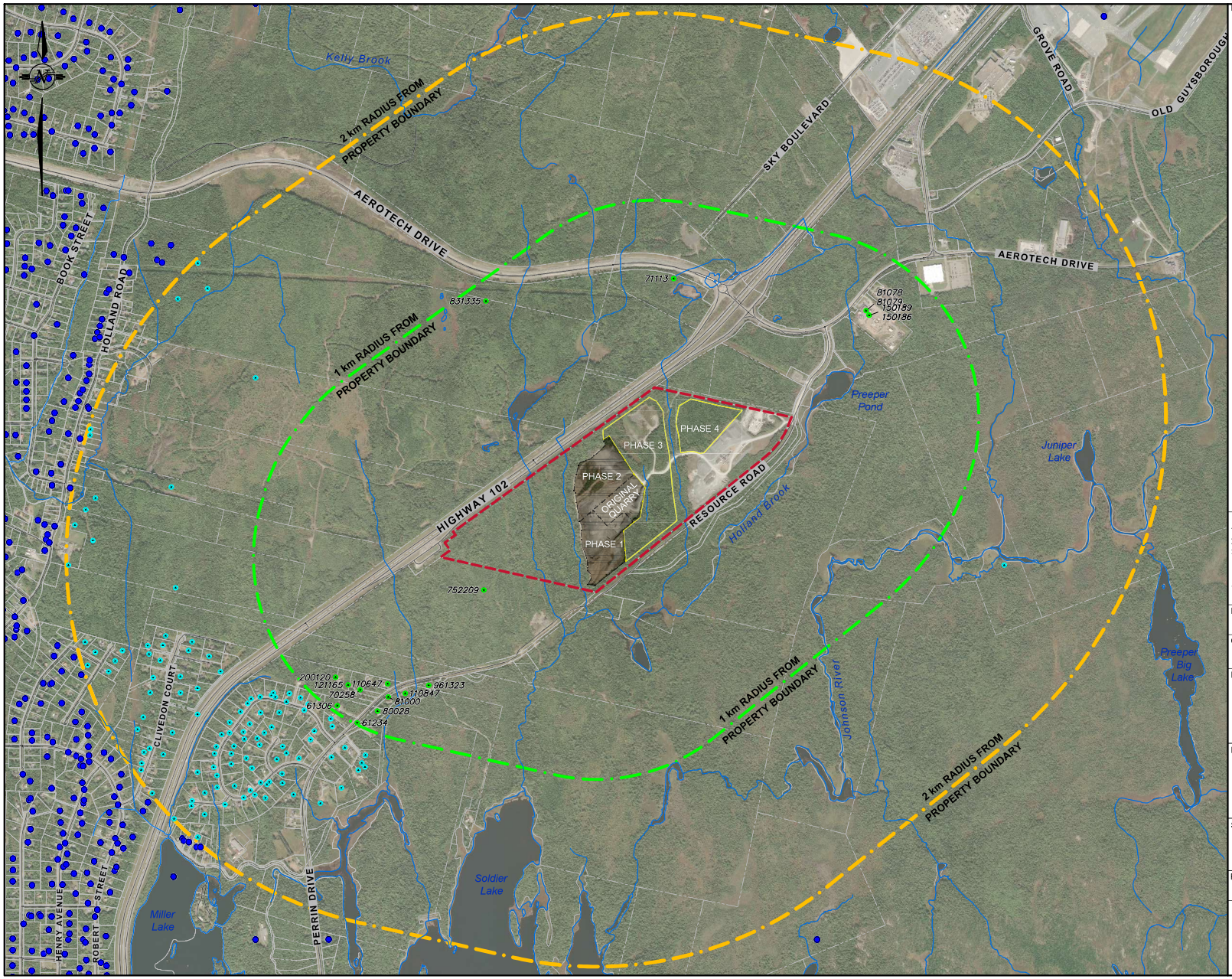
Scale: 1:5000

0 50 150 250 m

Project No.	Drawing No.	Rev. No.
103269.002	FIGURE C1-2	0

GEMTEC
Consulting Engineers and Scientists

N:\Projects\103200\103269.002\05_Civil Drafting\Env-Goffs Quarry\01_CAD Files\103269_002_DWG_EA Goffs Quarry Expansion - Goffs NS_2026-09-01_Ver03.dwg



Legend

POTABLE WELL
Department of Energy and Mines, 2026

- POTABLE WELL WITHIN 1 km RADIUS
- POTABLE WELL WITHIN 1 km - 2 km RADIUS
- POTABLE WELL BEYOND 2 km RADIUS
- PROPERTY LINE
- WATERCOURSE AND WATER BODY
- EXISTING PHASE BOUNDARY
- PHASE 3 AND 4 BOUNDARY
- 2 km RADIUS FROM PROPERTY BOUNDARY
- 1 km RADIUS FROM PROPERTY BOUNDARY
- PROPERTY BOUNDARY

General Notes

1. Coordinate system: NAD83 (CSRS)v6 / UTM zone 20N.
2. Aerial photograph from 2025. Source: Vantor.
3. Potable wells data extracted from the Nova Scotia well logs database. Maintained by the Nova Scotia Department of Energy and Mines (2026).
4. Nova Scotia topographic database information is reproduced and distributed with the permission of internal services, NS.

Date	Drawn by	Checked by
SEPTEMBER 2026	CHG	RM

Client: SCOTIAN MATERIALS LTD.

Project: ENVIROMENTAL ASSESSMENT
GOFFS QUARRY
EXPANSION PHASES 3 AND 4
SCOTIAN MATERIALS LIMITED, GOFFS, NS

Drawing: WATER WELL LOCATION PLAN

Scale: 1:20000

0 0.2 0.5 1 km

Project No.	Drawing No.	Rev. No.
103269.002	FIGURE C1-3	0

GEMTEC
Consulting Engineers and Scientists

N:\Projects\103200\103269.002\06_Civil Drafting\Env-Goffs Quarry\01_CAD Files\103269.002_DWG_EA Goffs Quarry Expansion - Goffs NS_2026-09-30_Ver03.dwg