

Proposed Sludgeline Phase 2 Pipeline Development - Rand Water - Emfuleni Local Municipality (Ward 15)

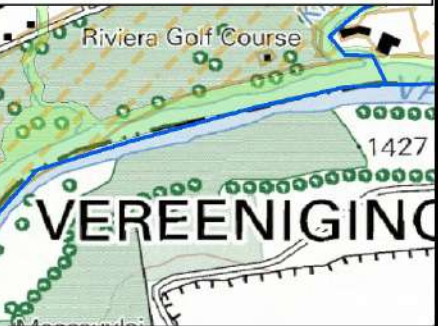
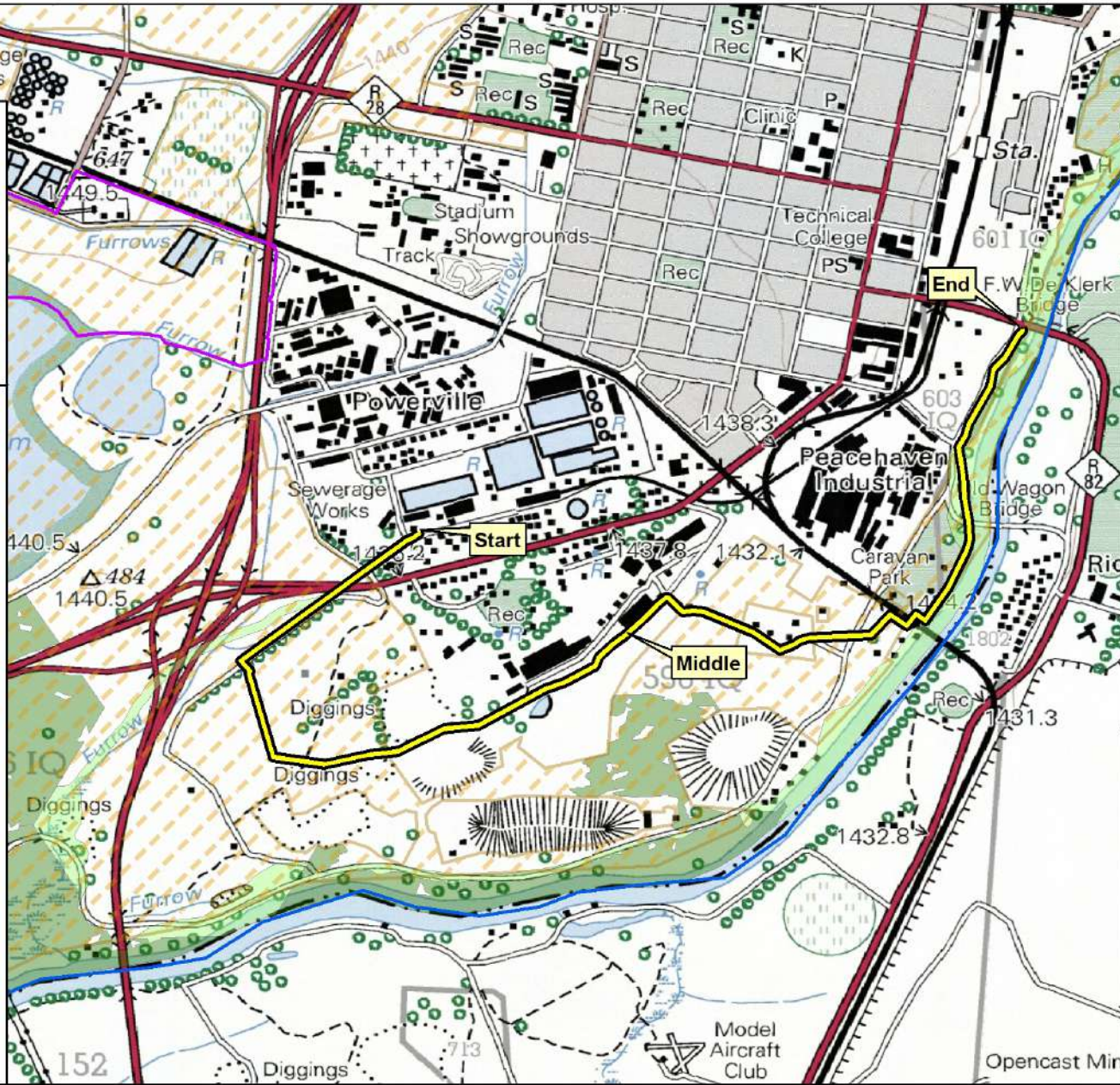


Important Biodiversity Areas

- CBA
- ESA
- Soweto Highveld Grassland
- Nature Reserve Boundary

Legend

| | |
|---|--|
| International Boundary and Beacon..... | |
| Provincial Boundary..... | |
| Protected Area..... | |
| Perennial River..... | |
| Perennial Water..... | |
| Non-perennial River..... | |
| Non-Perennial Water..... | |
| Dry Water Course..... | |
| Dry Pan..... | |
| Marsh and Vlei..... | |
| Pipeline (above ground)..... | |
| Water Tower; Reservoir; Water Point..... | |
| Prominent Rock Outcrop..... | |
| Erosion; Sand..... | |
| Woodland..... | |
| Cultivated Land..... | |
| Orchard or Vineyard..... | |
| Recreation Ground..... | |
| Row of Trees..... | |
| National Freeway; National Route..... | |
| Arterial Route..... | |
| Main Road..... | |
| Secondary Road; Bench Mark..... | |
| Other Road; Bridge..... | |
| Track and Hiking Trail..... | |
| Railway; Station or Siding..... | |
| Other Railway; Tunnel..... | |
| Embankment; Cutting..... | |
| Power Line..... | |
| Built-up Area (High, Low Density)..... | |
| Buildings; Ruin..... | |
| Post Office; Police Station; Store..... | |
| Place of Worship; School; Hotel..... | |
| Fence; Wall..... | |
| Windpump; Monument..... | |
| Communication Tower..... | |
| Mine Dump; Excavation..... | |
| Trigonometrical Station; Marine Beacon..... | |
| Lighthouse and Marine Light..... | |
| Cemetery; Grave..... | |



| | |
|---------------|-------------------------------|
| Start | 26°41'26.16"S & 27°54'42.79"E |
| Middle | 26°41'42.71"S & 27°55'12.21"E |
| End | 26°40'55.84"S & 27°56'13.16"E |

- ### Sensitivity Features:
- 1) Protected Areas & Conservations - None on site. (Leeuwkuil Nature Reserve 960m north-west from the pipeline)
 - 2) Critical Biodiversity Areas
CBA - <0% Coverage
ESA - <25% Coverage
 - 3) Sensitive Ridges - None
 - 4) Threatened Ecosystem - Soweto Highveld Grassland - 70% Coverage) (Vulnerable Classification)
 - 5) Agricultural Potential - Very Low - None - 100% coverage.
 - 6) NFEPA Rivers
Suikerbosrant River - Located between 50m-1600m south and east of the site.
Class D: Largely Modified

Legend

- Sludgeline phase2 pipeline
- NFEPA Rivers

ENVIRONMENTAL CONSERVATION MAP

Date: 26 June 2025

General Site Location
26°41'36.14"S & 27°55'19.12"E

0 350 700 1,400 Meters

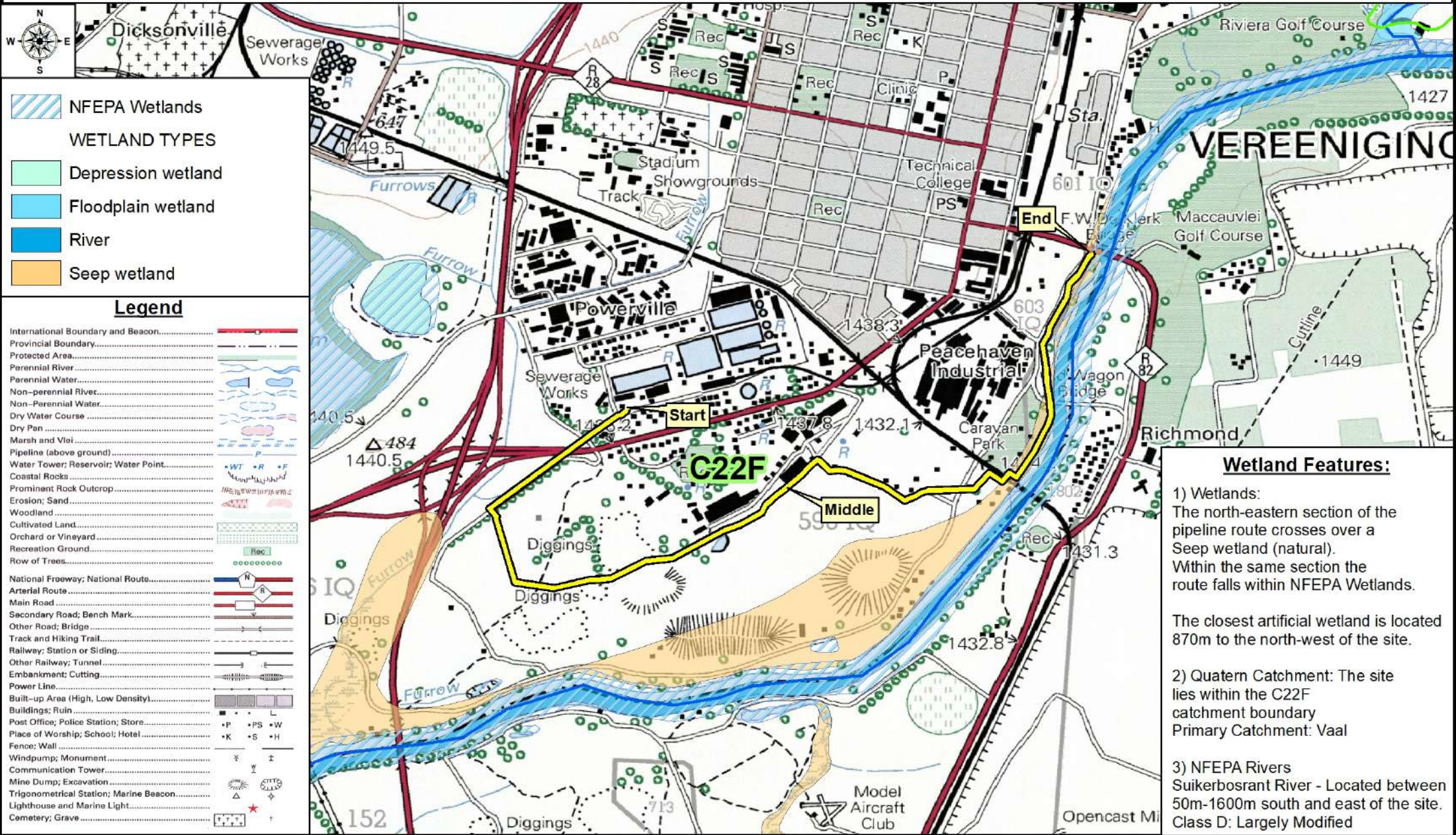
SELAHLE
CONSULTANCY & PROJECTS

Cell No.: 079 614 8298
Fax: 086 552 0171
Email: shonie@scprojects.co.za
Website: www.scprojects.co.za

ANDRE ZANOLI
/a
**GIS MAPPING &
ENVIRO-MINING**

Map Prepared by: Andre Zanol
Contact Number: 072 601 2432

Proposed Sludgeline Phase 2 Pipeline Development - Rand Water - Emfuleni Local Municipality (Ward 15)



Wetland Features:

- 1) Wetlands: The north-eastern section of the pipeline route crosses over a Seep wetland (natural). Within the same section the route falls within NFEPA Wetlands. The closest artificial wetland is located 870m to the north-west of the site.
- 2) Quatern Catchment: The site lies within the C22F catchment boundary
Primary Catchment: Vaal
- 3) NFEPA Rivers
Suikerbosrant River - Located between 50m-1600m south and east of the site.
Class D: Largely Modified

Legend

- Sludgeline phase2 pipeline
- NFEPA Rivers
- Quatern Catchment Boundaries

WETLAND MAP

Start - 26°41'26.16"S & 27°54'42.79"E
 Middle - 26°41'42.71"S & 27°55'12.21"E
 End - 26°40'55.84"S & 27°56'13.16"E

Date: 26 June 2025

General Site Location
 26°41'36.14"S & 27°55'19.12"E

0 350 700 1,400 Meters

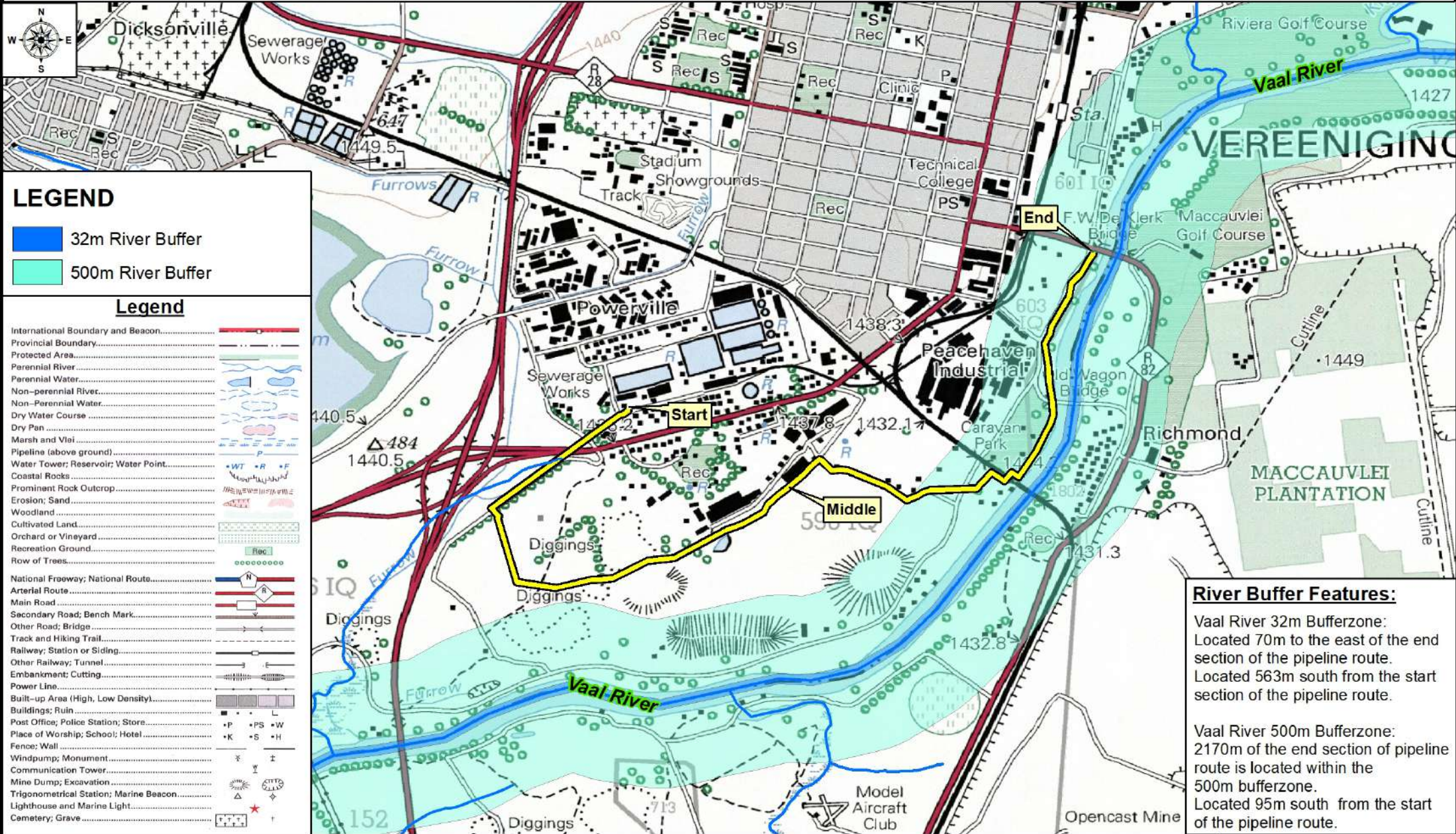
SELAHLE
 CONSULTANCY & PROJECTS

Cell No.: 079 614 8298
 Fax: 086 552 0171
 Email: shonie@scprojects.co.za
 Website: www.scprojects.co.za

ANDRE ZANOLI
 t/a
**GIS MAPPING &
 ENVIRO-MINING**

Map Prepared by: Andre Zanol
 Contact Number: 072 601 2432

Proposed Sludgeline Phase 2 Pipeline Development - Rand Water - Emfuleni Local Municipality (Ward 15)



LEGEND

- 32m River Buffer
- 500m River Buffer

Legend

| | |
|--|-----------|
| International Boundary and Beacon | —+—+—+—+— |
| Provincial Boundary | —+—+—+—+— |
| Protected Area | —+—+—+—+— |
| Perennial River | —+—+—+—+— |
| Non-perennial River | —+—+—+—+— |
| Non-Perennial Water | —+—+—+—+— |
| Dry Water Course | —+—+—+—+— |
| Dry Pan | —+—+—+—+— |
| Marsh and Vlei | —+—+—+—+— |
| Pipeline (above ground) | —+—+—+—+— |
| Water Tower; Reservoir; Water Point | —+—+—+—+— |
| Coastal Rocks | —+—+—+—+— |
| Prominent Rock Outcrop | —+—+—+—+— |
| Erosion; Sand | —+—+—+—+— |
| Woodland | —+—+—+—+— |
| Cultivated Land | —+—+—+—+— |
| Orchard or Vineyard | —+—+—+—+— |
| Recreation Ground | —+—+—+—+— |
| Row of Trees | —+—+—+—+— |
| National Freeway; National Route | —+—+—+—+— |
| Arterial Route | —+—+—+—+— |
| Main Road | —+—+—+—+— |
| Secondary Road; Bench Mark | —+—+—+—+— |
| Other Road; Bridge | —+—+—+—+— |
| Track and Hiking Trail | —+—+—+—+— |
| Railway; Station or Siding | —+—+—+—+— |
| Other Railway; Tunnel | —+—+—+—+— |
| Embankment; Cutting | —+—+—+—+— |
| Power Line | —+—+—+—+— |
| Built-up Area (High, Low Density) | —+—+—+—+— |
| Buildings; Ruin | —+—+—+—+— |
| Post Office; Police Station; Store | —+—+—+—+— |
| Place of Worship; School; Hotel | —+—+—+—+— |
| Fence; Wall | —+—+—+—+— |
| Windpump; Monument | —+—+—+—+— |
| Communication Tower | —+—+—+—+— |
| Mine Dump; Excavation | —+—+—+—+— |
| Trigonometrical Station; Marine Beacon | —+—+—+—+— |
| Lighthouse and Marine Light | —+—+—+—+— |
| Cemetery; Grave | —+—+—+—+— |

River Buffer Features:

Vaal River 32m Bufferzone:
 Located 70m to the east of the end section of the pipeline route.
 Located 563m south from the start section of the pipeline route.

Vaal River 500m Bufferzone:
 2170m of the end section of pipeline route is located within the 500m bufferzone.
 Located 95m south from the start of the pipeline route.

Legend

- Rivers
- Sludgeline phase2 pipeline

RIVER BUFFER MAP

Start - 26°41'26.16"S & 27°54'42.79"E
 Middle - 26°41'42.71"S & 27°55'12.21"E
 End - 26°40'55.84"S & 27°56'13.16"E

Date: 26 June 2025

General Site Location
 26°41'36.14"S & 27°55'19.12"E



Cell No.: 079 614 8298
 Fax: 086 552 0171
 Email: shonie@scprojects.co.za
 Website: www.scprojects.co.za



Map Prepared by: Andre Zanol
 Contact Number: 072 601 2432