











Source: Esri World Topographic Map

FIGURE 13.4 - HIGHLY THREATENED / UNIQUE ECOSYSTEMS

- | | |
|--|--|
|  Project Area | Threatened Habitats Langdale Brown Class Criteria A1 |
|  Project Area of Influence |  Dry Acacia Savanna - EN |
|  Indicative Project Area of Influence* |  Forest/Savanna Mosaic - EN |
| |  Moist Acacia Savanna - EN |
| |  Moist Combretum Savanna - EN |
| |  Butyrospermum Savanna - VU |
| |  Palm Savanna - VU |
| |  Grass Savanna - VU |

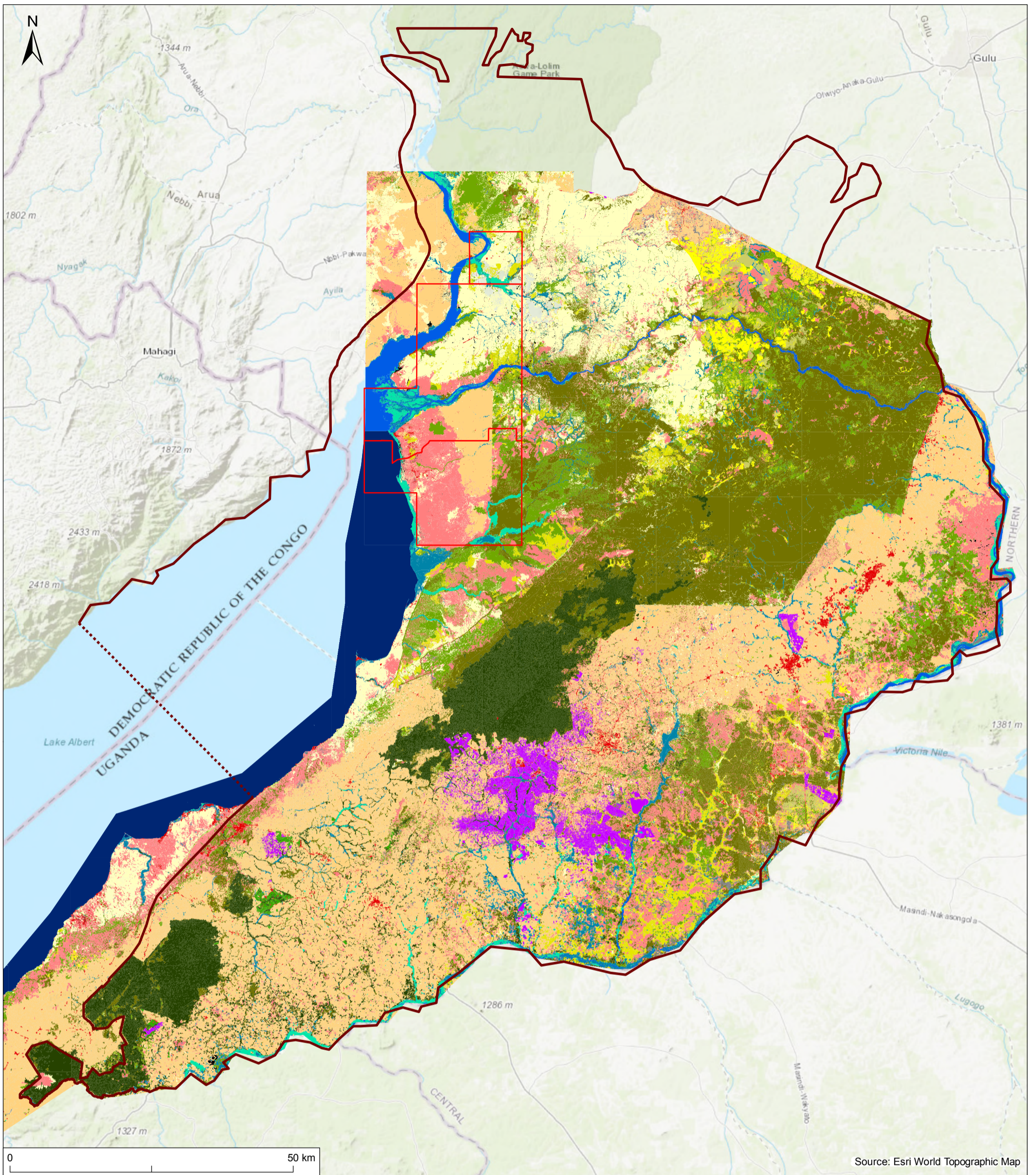
Project:
Tilenga Project ESIA
Client:
Total E&P Uganda B.V.
and Tullow Uganda
Operations Pty Ltd



Designed: LC
Checked: GM
Approved: MW
Date: 01/06/2018
Scale @ A3: 1:650,000

Coordinate Reference System:
WGS 1984 UTM Zone 36N

* Indicative as impacts on Lake Albert may extend beyond this boundary



Source: Esri World Topographic Map

FIGURE 13.5 - BROAD VEGETATION CLASSES IN PROJECT AREA

- | | | |
|---------------------------------------|--|-----------------------------|
| Project Area | Cyperus Papyrus Swamp WE11 (L-BX1) | Moist Wooded Grassland WG1 |
| Project Area of Influence | Dry Grassland GR2 | Open Moist Woodlands WO1 |
| Indicative Project Area of Influence* | Dry Thickets SH4 (L-B V) | Other Rock IR2 |
| Land Cover Class (WCS 2017) | Dry Wooded Grassland WG2 | Permanent Rivers PR |
| Bare Soil (rural) IR3 | Large-scale Farming AG1 | Plantations AG3 (L-B 4) |
| Built-up Areas BU | Medium altitude moist semi-deciduous Forests FO3 (L-B D) | Seasonal Rivers SR |
| Burnt Area | Moist Grassland GR1 (L-B Q) | Small-scale Farming AG2 |
| Bushlands SH2 (L-B T) | Moist Thickets SH3 (L-B G) | Standing Waters SW (L-B WW) |
| Closed Moist Woodlands WO1 | | Swamps WE1 (L-B X) |

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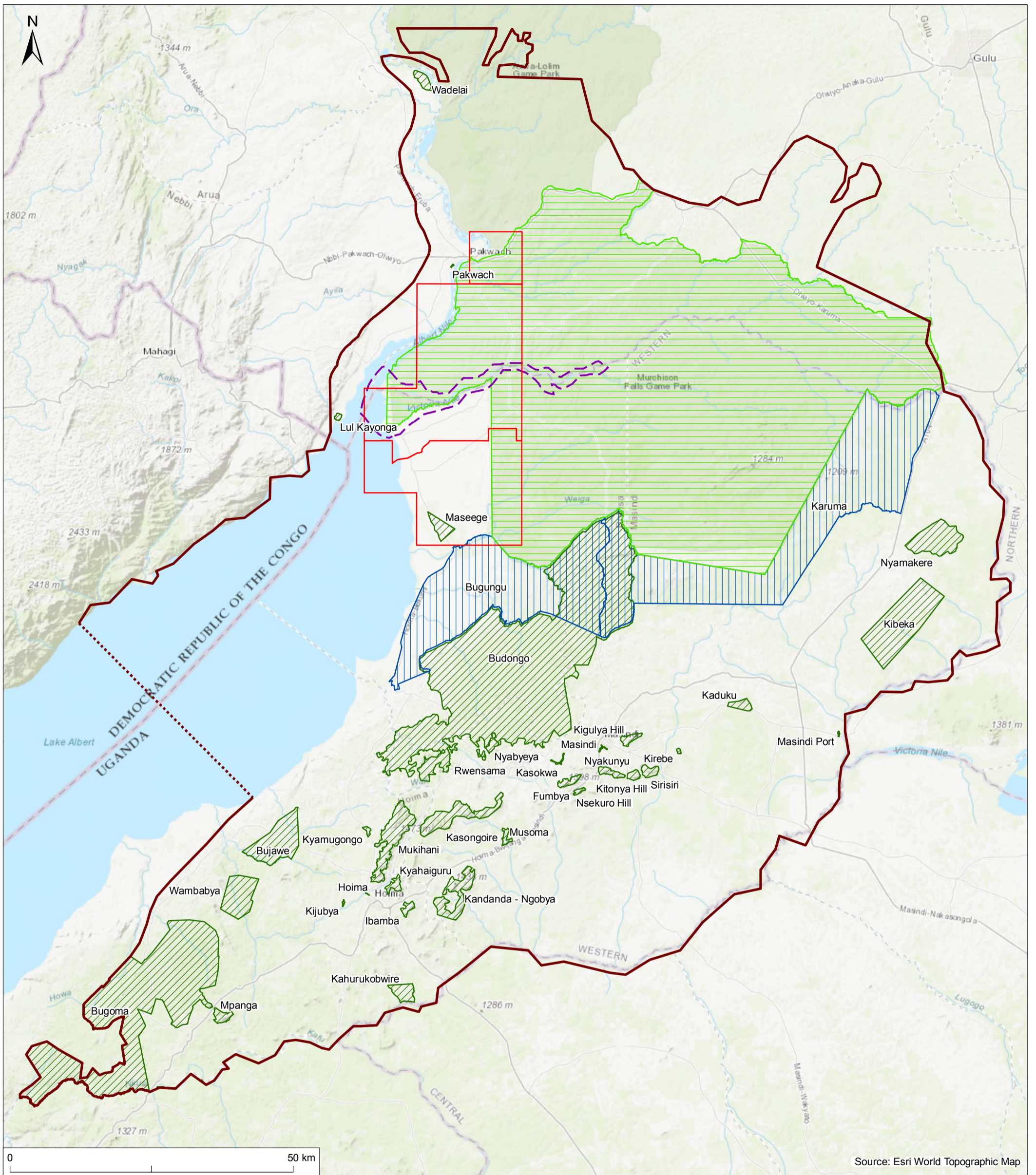


FIGURE 13.6 - PROTECTED AREAS WITHIN THE AREA OF INFLUENCE

- | | |
|---------------------------------------|-------------------------------|
| Project Area | Protected Area: |
| Project Area of Influence | Murchison Falls National Park |
| Indicative Project Area of Influence* | Ramsar |
| | Forest Reserve |
| | Wildlife Reserve |

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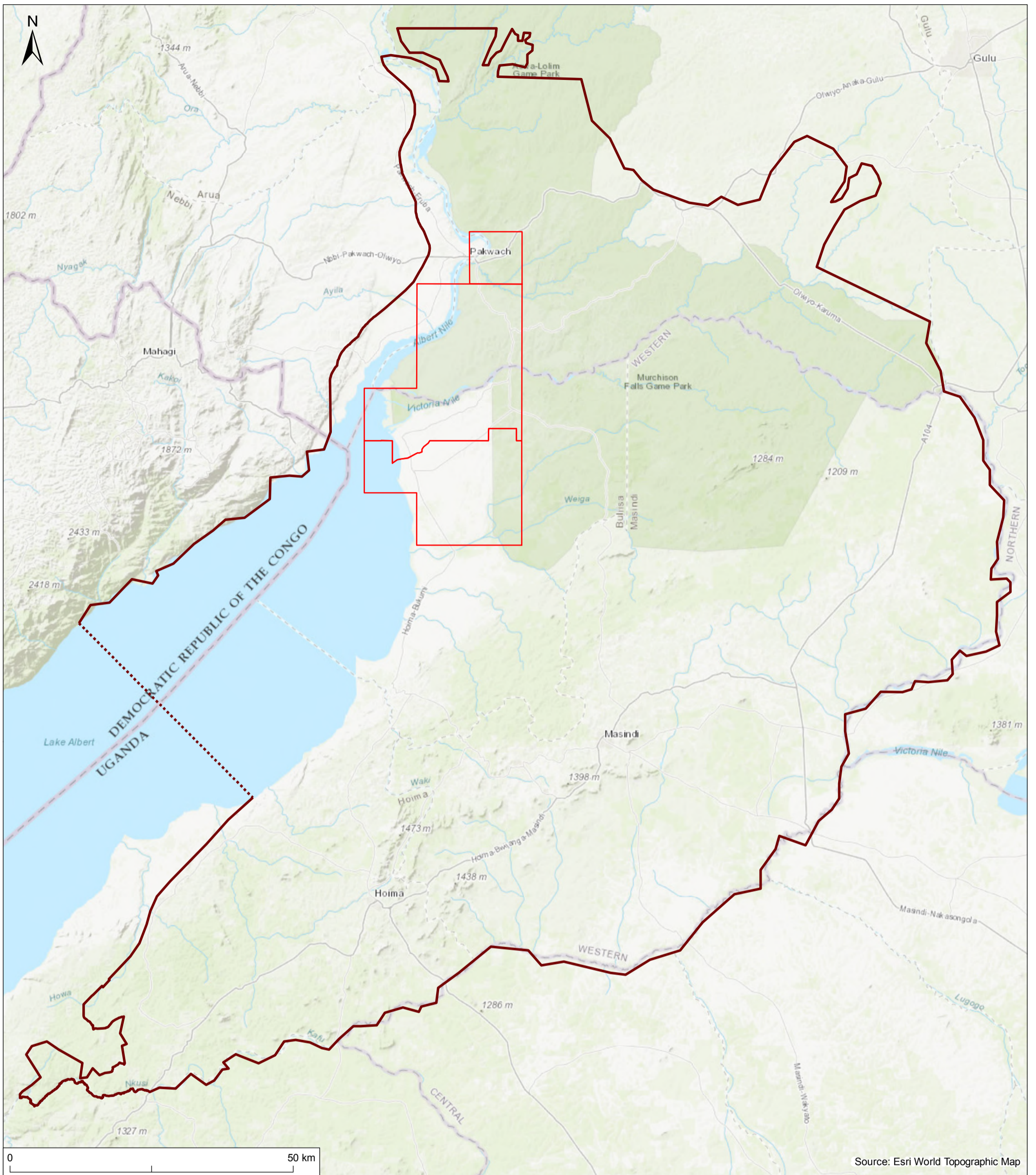


FIGURE 14.1 - PROJECT AREA AND PROJECT AREA OF INFLUENCE

- Project Area
- Project Area of Influence
- Indicative Project Area of Influence*

* Indicative as impacts on Lake Albert may extend beyond this boundary

Project: Tilenga Project ESIA	 TILENGA PROJECT
Client: Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd	
Designed: LC	 AECOM
Checked: GM	
Approved: MW	Date: 01/06/2018 Scale @ A3: 1:650,000
Coordinate Reference System: WGS 1984 UTM Zone 36N	

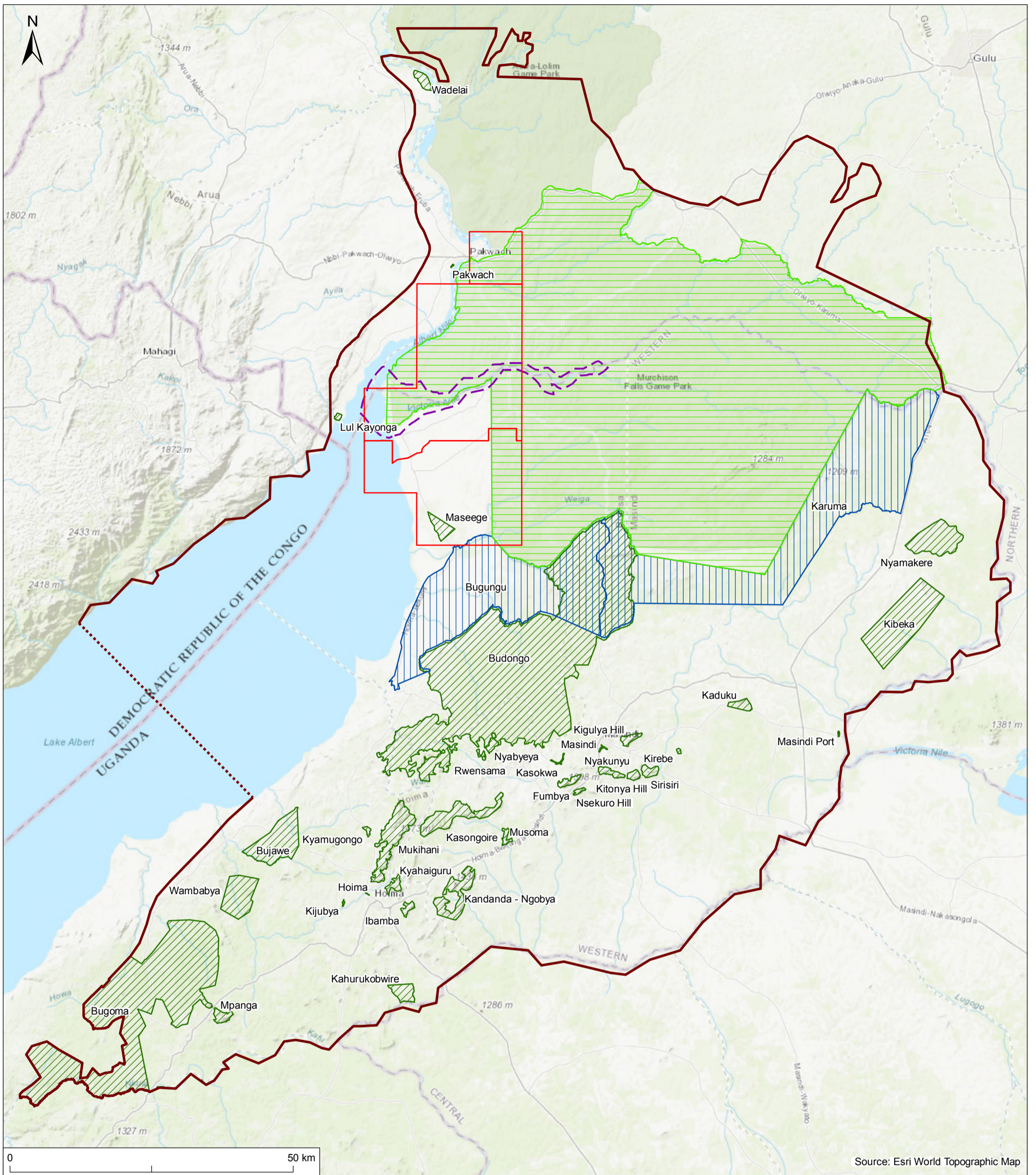









FIGURE 14.2 - PROTECTED AREAS WITHIN THE AREA OF INFLUENCE

- | | |
|--|---|
|  Project Area | Protected Area: |
|  Project Area of Influence |  Murchison Falls National Park |
|  Indicative Project Area of Influence* |  Ramsar |
| |  Forest Reserve |
| |  Wildlife Reserve |

Project: Tilenga Project ESIA	
Client: Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd	
Designed: LC	
Checked: GM	
Approved: MW	Date: 01/06/2018
Coordinate Reference System: WGS 1984 UTM Zone 36N	Scale @ A3: 1:650,000

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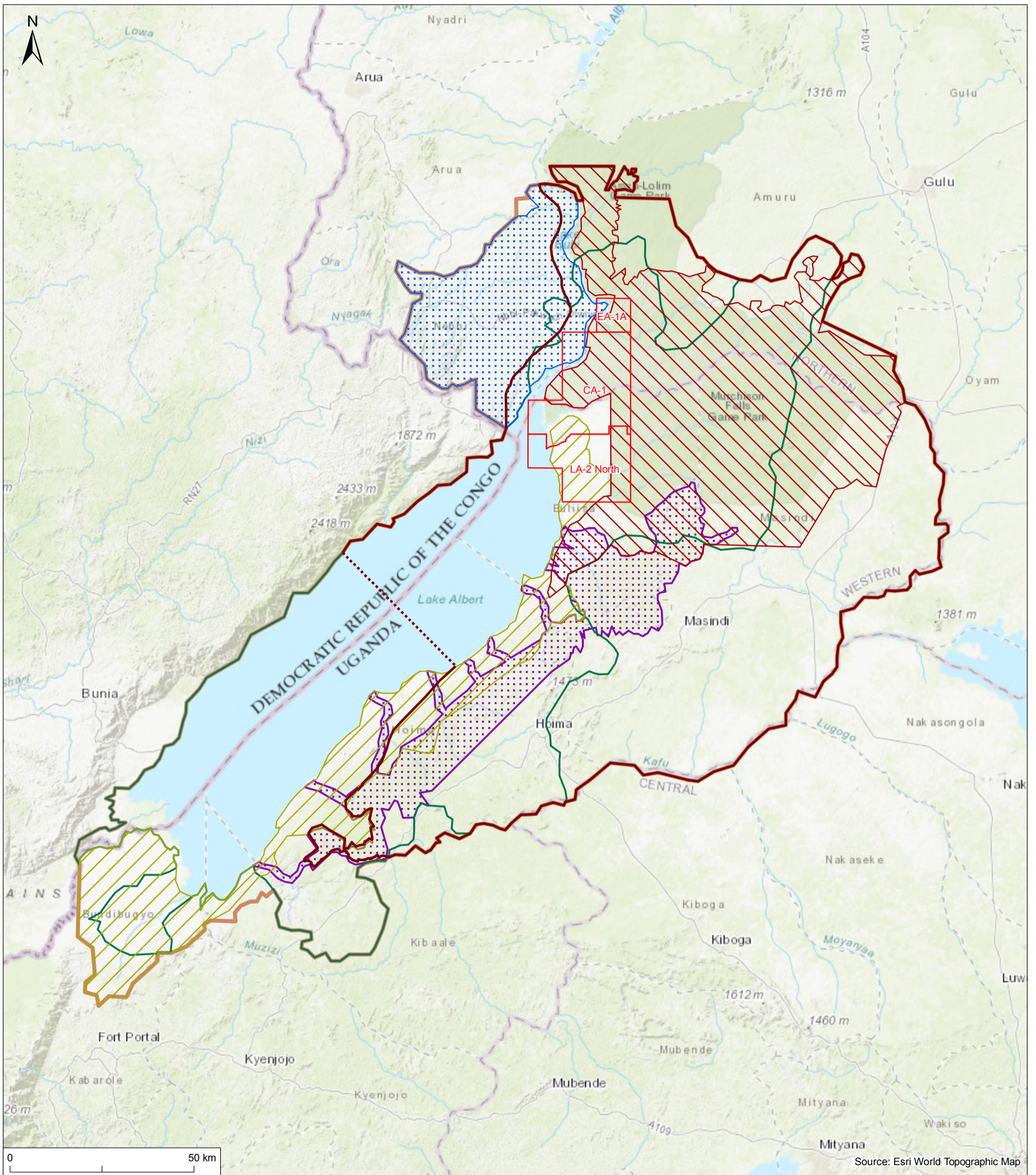









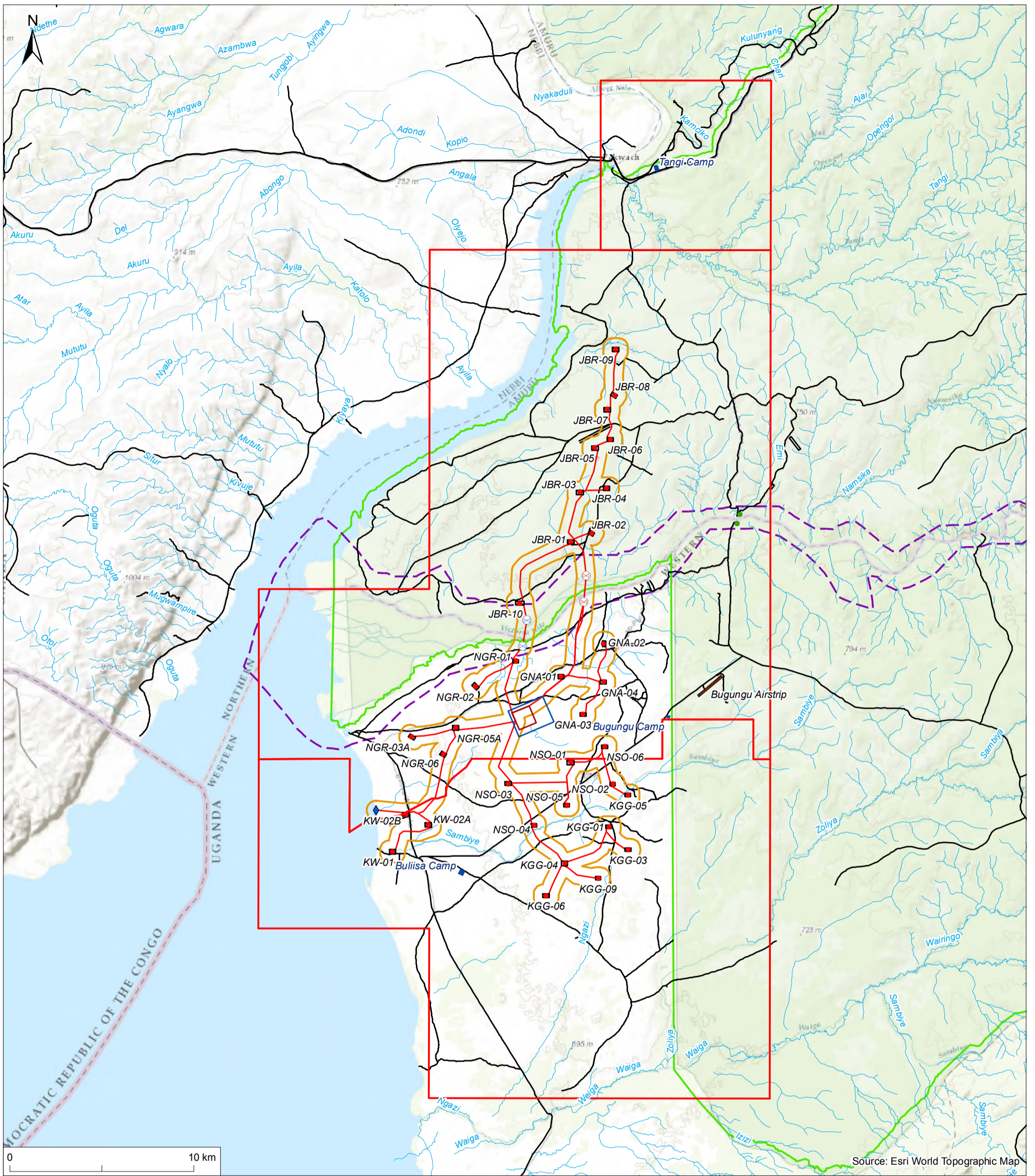


FIGURE 14.3 - CHA LANDSCAPE CONTEXTS

- | | |
|--|---|
|  Project Area |  Landscape Context A |
|  Project Area of Influence |  Landscape Context B |
|  Indicative Project Area of Influence* |  Landscape Context C |
| |  Landscape Context D |
| |  Landscape Context E |
| |  Landscape Context F |

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Client: Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd	
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Checked: GM	
Approved: MW	Date: 01/06/2018
Coordinate Reference System: WGS 1984 UTM Zone 36N	Scale @ A3: 1:1,000,000



Source: Esri World Topographic Map

FIGURE 15.1 - WATERBODIES IN THE PRIMARY AND SECONDARY STUDY AREAS

- Wellpad location
- Wellpad Extent - Maximum
- ◆ Water Abstraction System
- Victoria Nile Pipeline HDD Crossing - Option 1
- Victoria Nile Pipeline HDD Crossing - Option 2
- Victoria Nile Ferry Crossing
- Production and Injection Network
- Industrial Area
- CPF
- Bugungu Airstrip
- Camp
- Road Network
- Watercourse
- Aquatic Life Primary Study Area
- Aquatic Life Secondary Study Area
- Murchison Falls National Park
- Murchison Falls-Albert Delta Wetland System Ramsar Site

<p>Project: Tilenga Project ESIA</p> <p>Client: Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd</p> <p>Designed: LC Checked: GM Approved: MW</p> <p>Coordinate Reference System: WGS 1984 UTM Zone 36N</p>	 <p>Date: 04/06/2018 Scale @ A3: 1:200,000</p>
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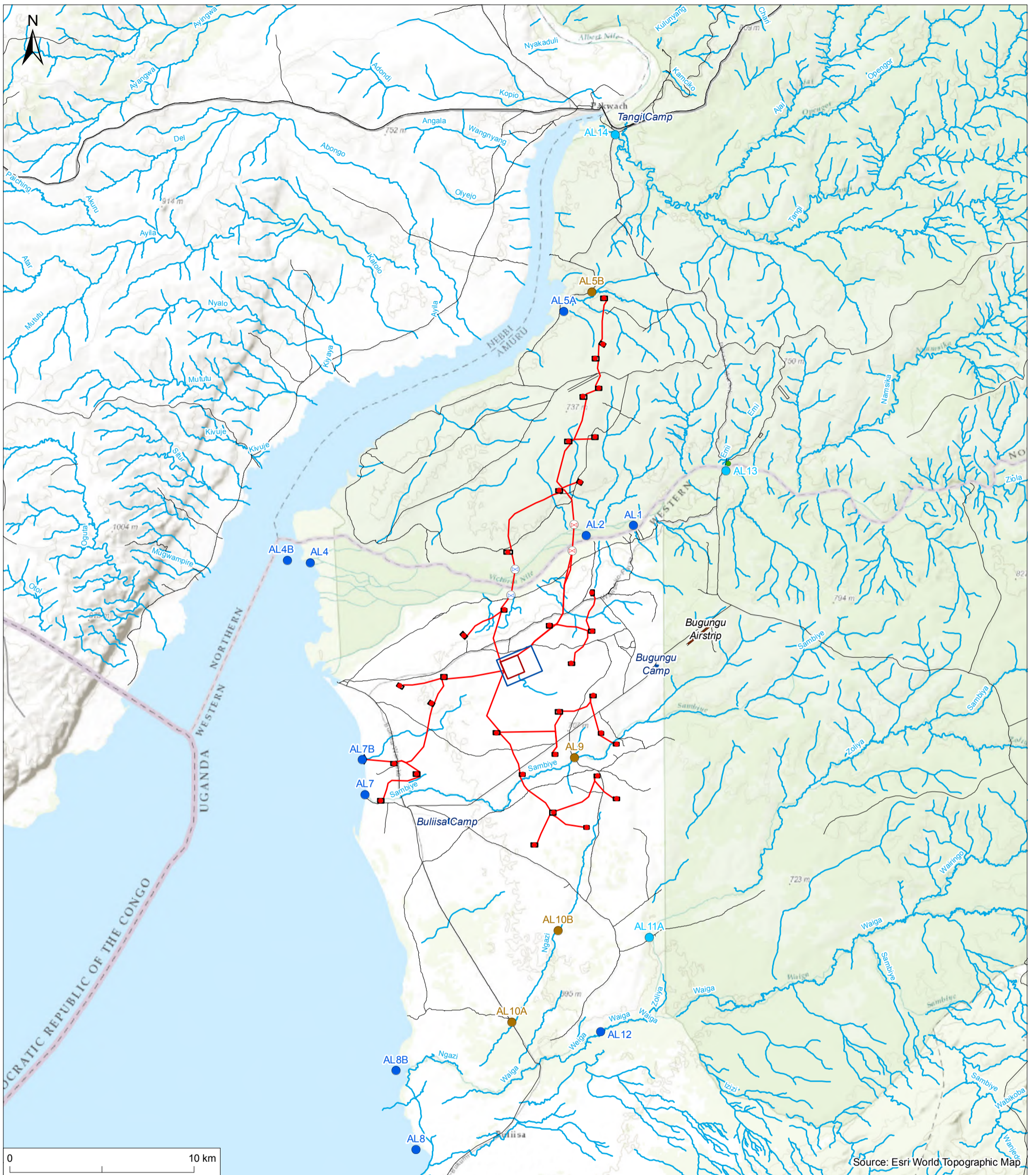
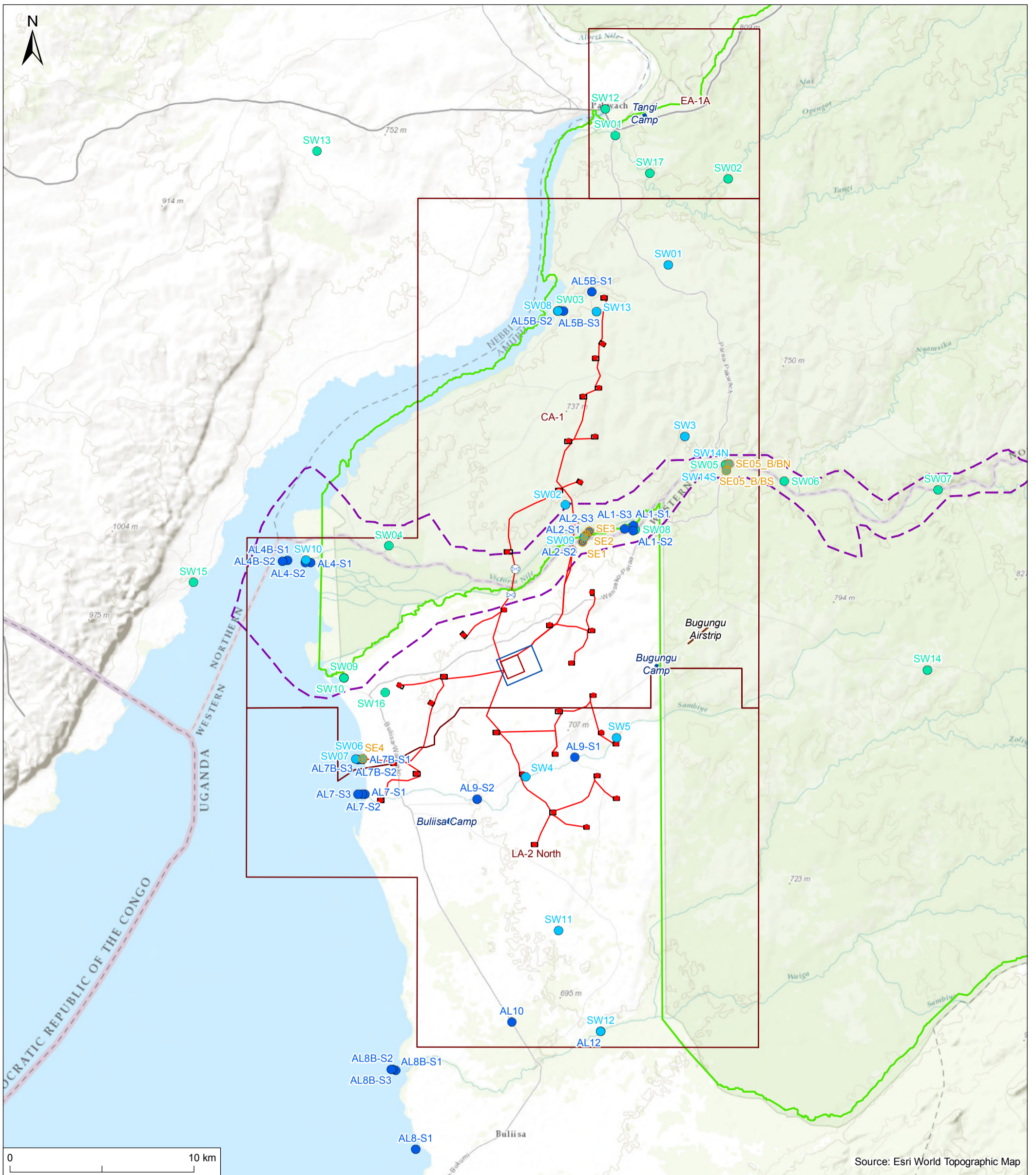


FIGURE 15.2 - AQUATIC LIFE SAMPLE POINTS

- Wellpad location
- Wellpad Extent - Maximum
- ◆ Water Abstraction System
- ⊗ Victoria Nile Pipeline HDD Crossing - Option 1
- ⊙ Victoria Nile Pipeline HDD Crossing - Option 2
- Victoria Nile Ferry Crossing
- Production and Injection Network
- ▭ Industrial Area
- ▭ CPF
- ▭ Bugungu Airstrip
- ▭ Camp
- Road Network
- Watercourse
- Aquatic Life sample sites dry at time of both surveys
- Aquatic Life sample sites only surveyed in the wet season
- Aquatic Life sample sites, sampled during both wet and dry seasons

Project: Tilenga Project ESIA	 TILENGA PROJECT
Client: Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd	
Designed: LC	 AECOM
Checked: GM	
Approved: MW	
Coordinate Reference System: WGS 1984 UTM Zone 36N	Date: 04/06/2018 Scale @ A3: 1:200,000



Source: Esri World Topographic Map

FIGURE 15.3 - ESIA BASELINE SURVEY - SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS 2014 - 2017

- | | |
|--|---|
| Project Area | Sediment Sample Location - 2016/2017 |
| Wellpad location | Surface Water Survey Location - 2016/2017 |
| Wellpad Extent - Maximum | Aquatic Life Survey Location - 2016/2017 |
| Water Abstraction System | EA-1 EBS - Surface Water Sampling Locations - 2014 |
| Victoria Nile Pipeline HDD Crossing - Option 1 | Murchison Falls National Park |
| Victoria Nile Pipeline HDD Crossing - Option 2 | Murchison Falls-Albert Delta Wetland System Ramsar Site |
| Victoria Nile Ferry Crossing | |
| Production and Injection Network | |
| Industrial Area | |
| CPF | |
| Bugungu Airstrip | |
| Camp | |

Project:
Tilenga Project ESIA

Client:
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Date: 01/06/2018
Scale @ A3: 1:200,000

Coordinate Reference System:
WGS 1984 UTM Zone 36N

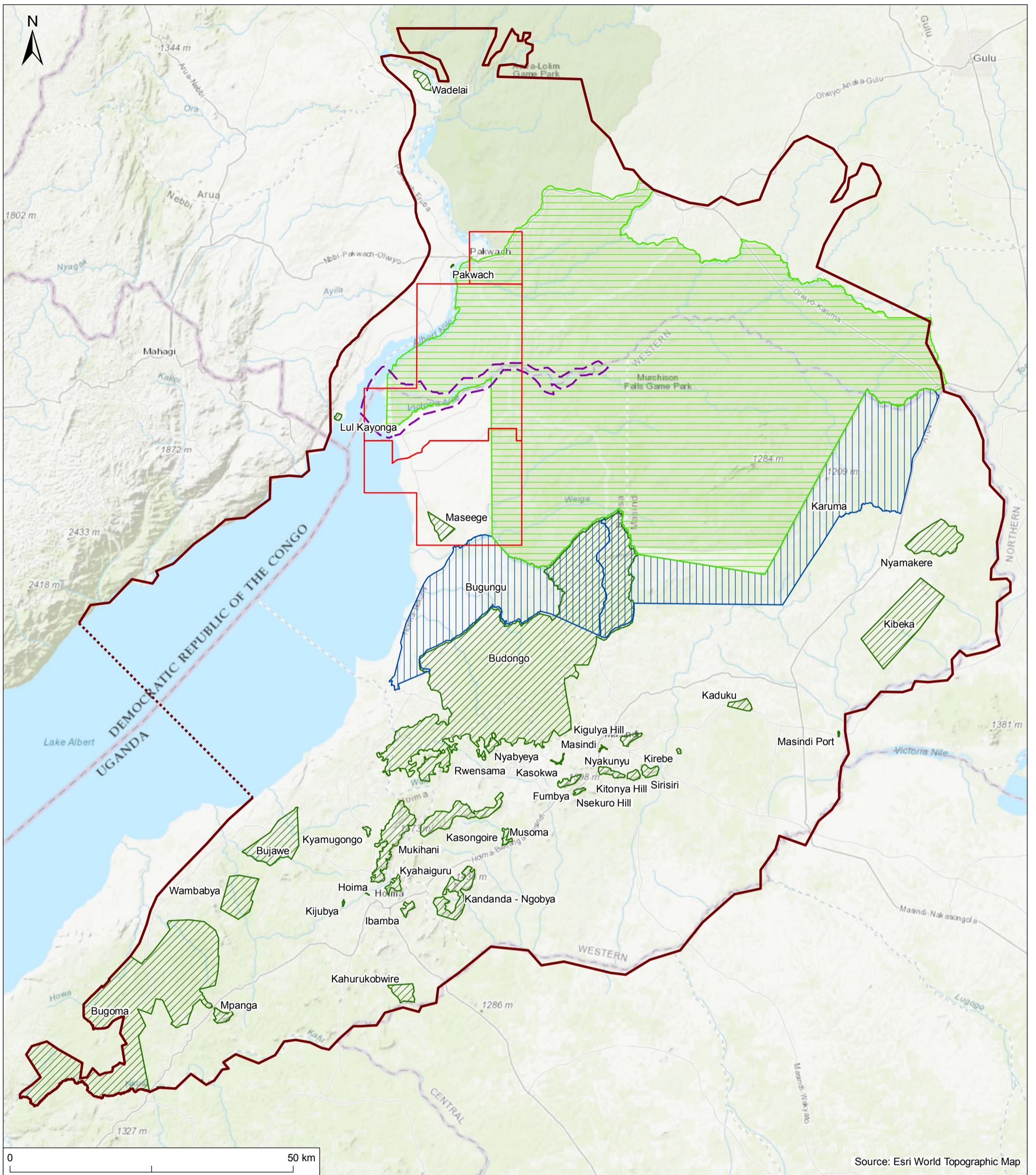









FIGURE 15.5 - PROTECTED AREAS WITHIN THE AREA OF INFLUENCE

- | | |
|--|---|
|  Project Area | Protected Area: |
|  Project Area of Influence |  Murchison Falls National Park |
|  Indicative Project Area of Influence* |  Ramsar |
| |  Forest Reserve |
| |  Wildlife Reserve |

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Project: Tilenga Project ESIA	
Client: Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd	
Designed: LC	
Checked: GM	
Approved: MW	Date: 01/06/2018
Coordinate Reference System: WGS 1984 UTM Zone 36N	Scale @ A3: 1:650,000

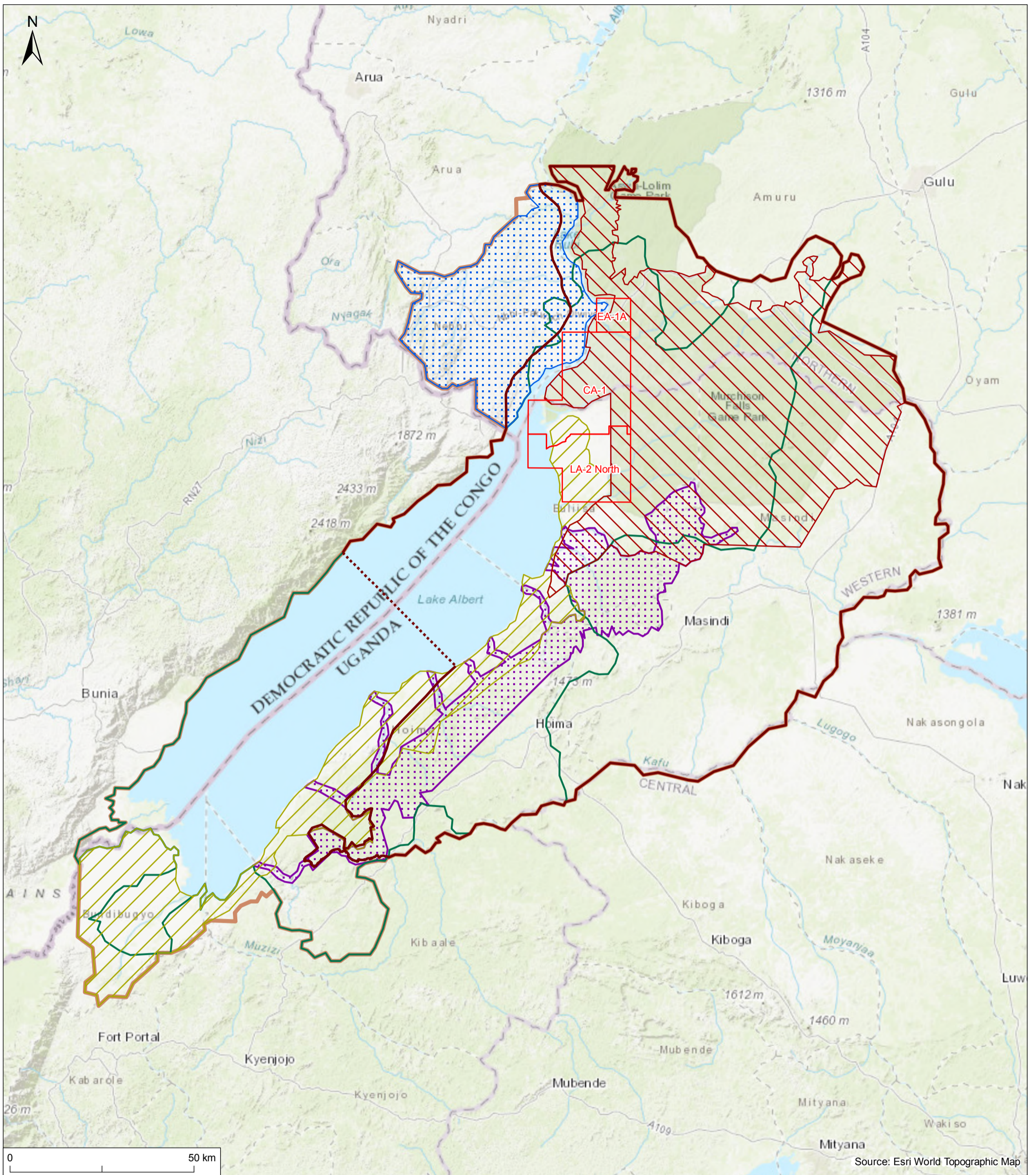


FIGURE 15.6 - CHA LANDSCAPE CONTEXTS

- | | |
|---------------------------------------|---------------------|
| Project Area | Landscape Context A |
| Project Area of Influence | Landscape Context B |
| Indicative Project Area of Influence* | Landscape Context C |
| | Landscape Context D |
| | Landscape Context E |
| | Landscape Context F |

* Indicative as impacts on Lake Albert may extend beyond this boundary

Project: Tilenga Project ESIA	
Client: Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd	
Designed: LC	
Checked: GM	
Approved: MW	Date: 01/06/2018
Coordinate Reference System: WGS 1984 UTM Zone 36N	Scale @ A3: 1:1,000,000

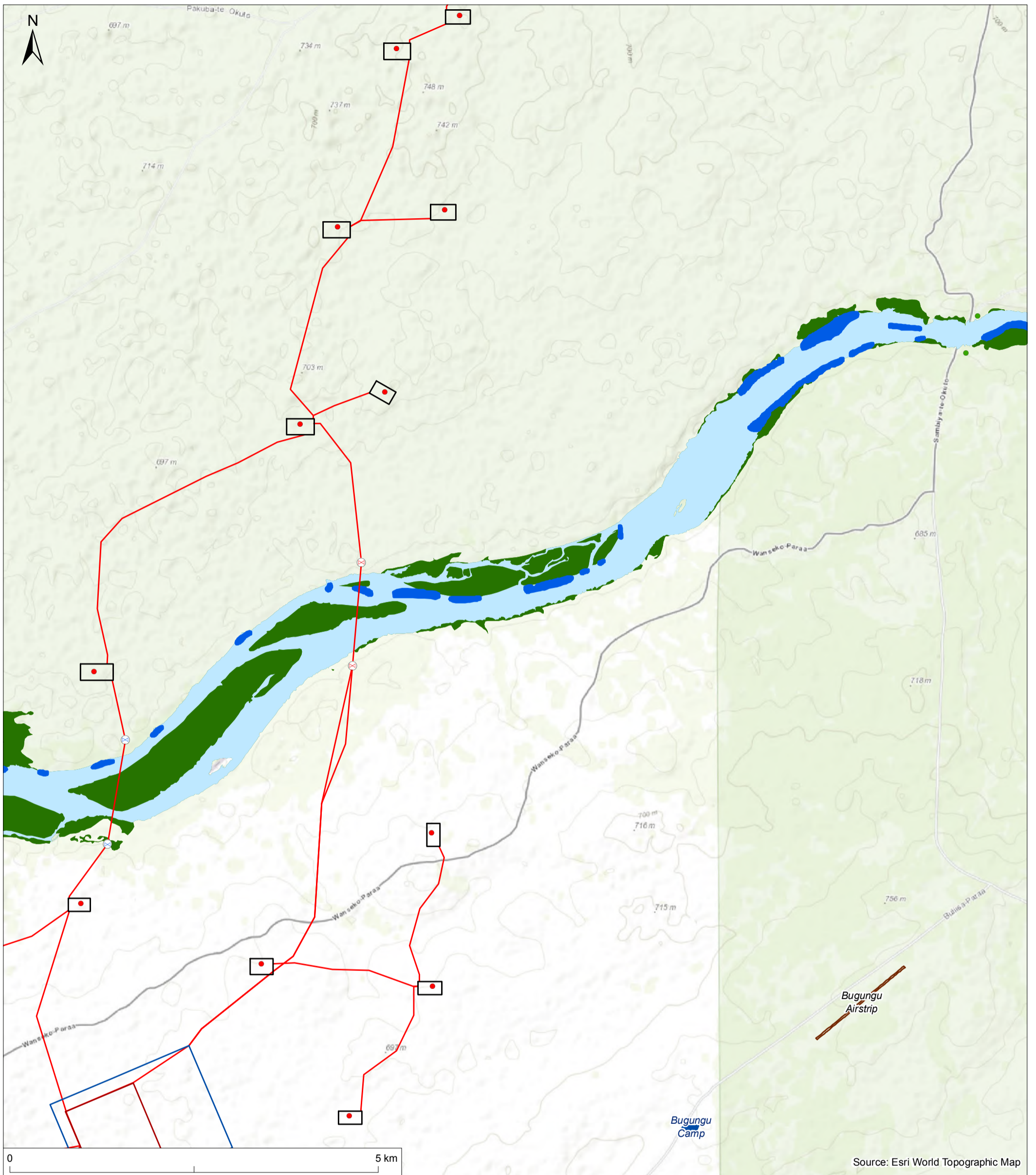


FIGURE 15.7 - LOCATIONS OF FISH BREEDING/NURSERY SITES ON THE VICTORIA NILE MFNP

- Wellpad location
- Wellpad Extent - Maximum
- ◆ Water Abstraction System
- ⊗ Victoria Nile Pipeline HDD Crossing - Option 1
- ⊗ Victoria Nile Pipeline HDD Crossing - Option 2
- Victoria Nile Ferry Crossing
- Production and Injection Network
- Industrial Area
- CPF
- Bugungu Airstrip
- Camp
- Fish Breeding
- Victoria Nile
- Reeds and Swamps

<p>Project: Tilenga Project ESIA</p> <p>Client: Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd</p> <p>Designed: LC Checked: GM Approved: MW</p> <p>Coordinate Reference System: WGS 1984 UTM Zone 36N</p>	
<p>Date: 04/06/2018 Scale @ A3: 1:50,000</p>	

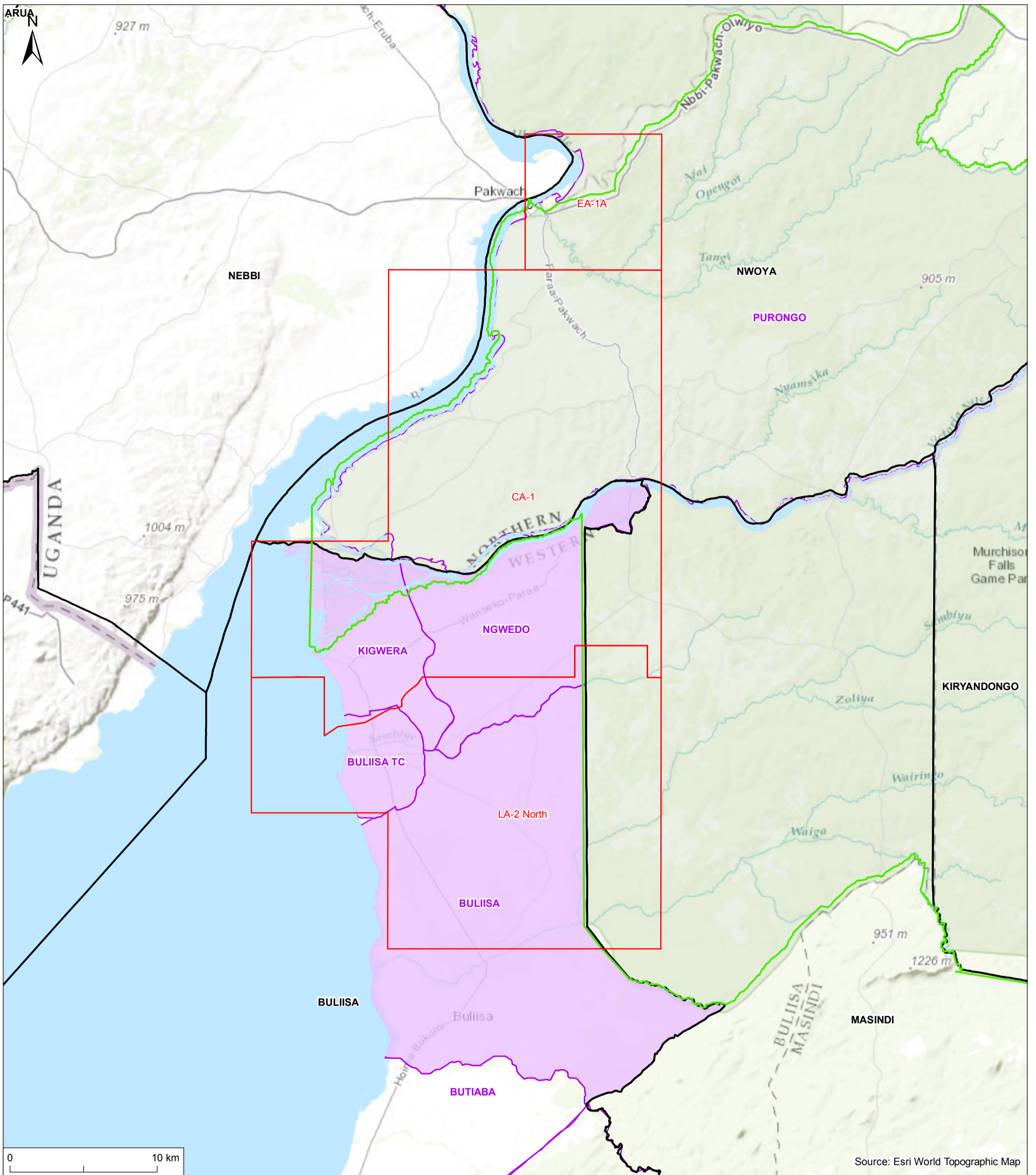


FIGURE 16.1 - SOCIAL AND HEALTH BASELINE PRIMARY STUDY AREA

- Project Area
- Murchison Falls National Park
- Primary Study Area
- District
- Sub County

Project: Tilenga Project ESIA	 TILENGA PROJECT
Client: Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd	
Designed: LC	 AECOM
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Approved: MW	Date: 01/06/2018 Scale @ A3: 1:250,000
Coordinate Reference System: WGS 1984 UTM Zone 36N	

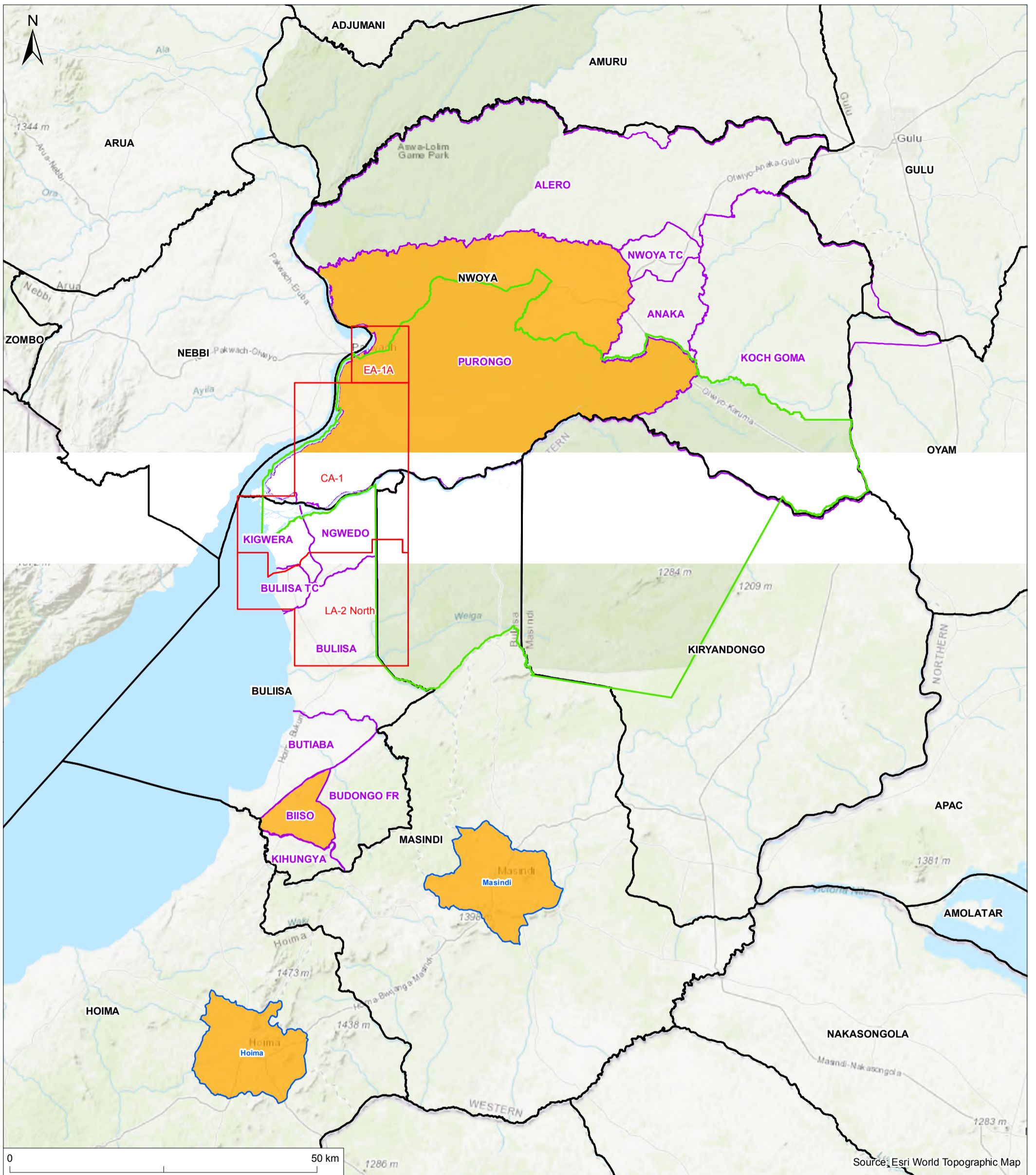


FIGURE 16.2 - SOCIAL AND HEALTH BASELINE SECONDARY STUDY AREA

- Project Area
- Murchison Falls National Park
- District
- Sub County
- Municipality
- Secondary Study Area

Project: Tilenga Project ESIA	 TILENGA PROJECT
Client: Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd	
Designed: LC	 AECOM
Checked: GM	
Approved: MW	
Coordinate Reference System: WGS 1984 UTM Zone 36N	Date: 06/06/2018 Scale @ A3: 1:600,000

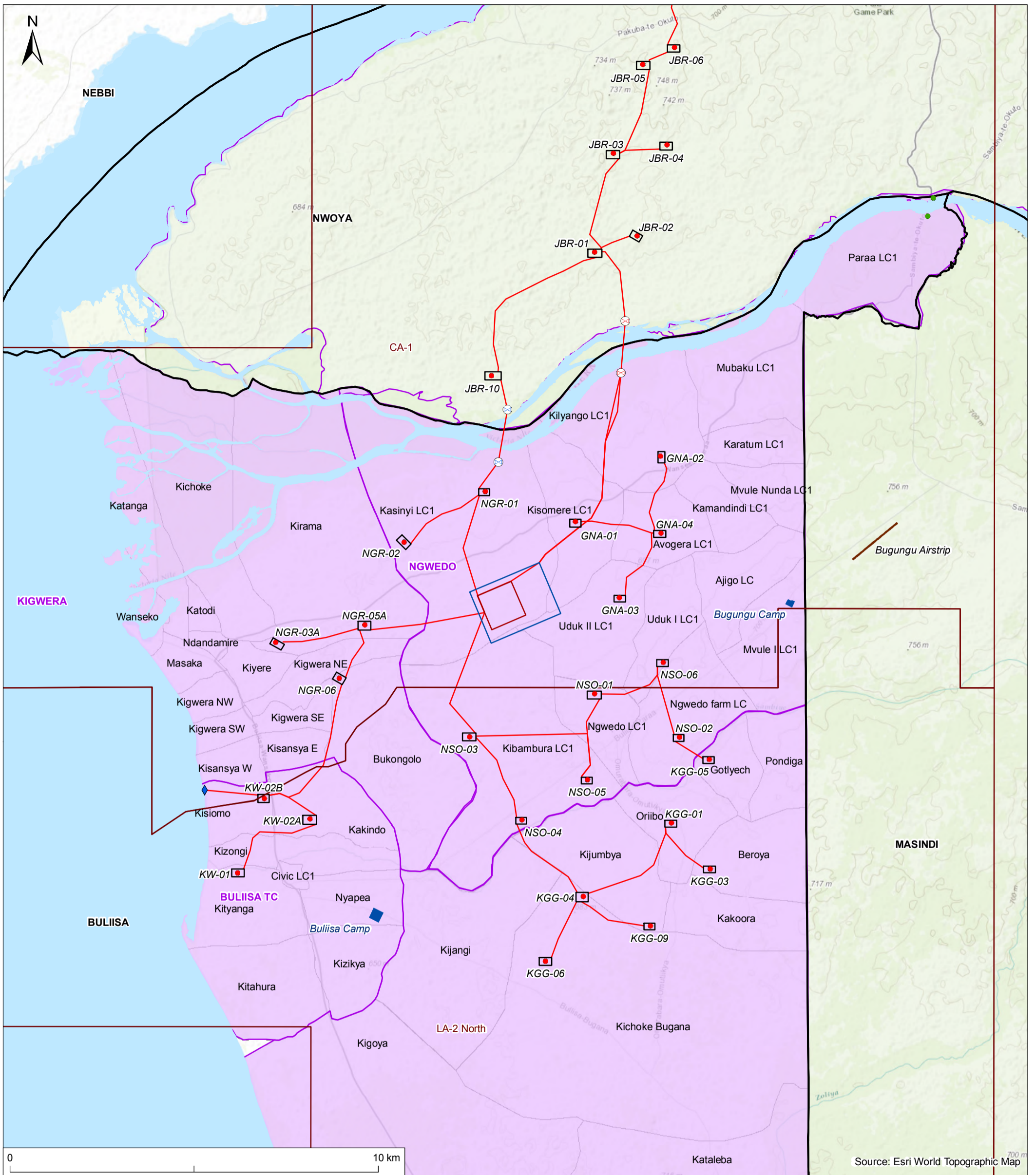
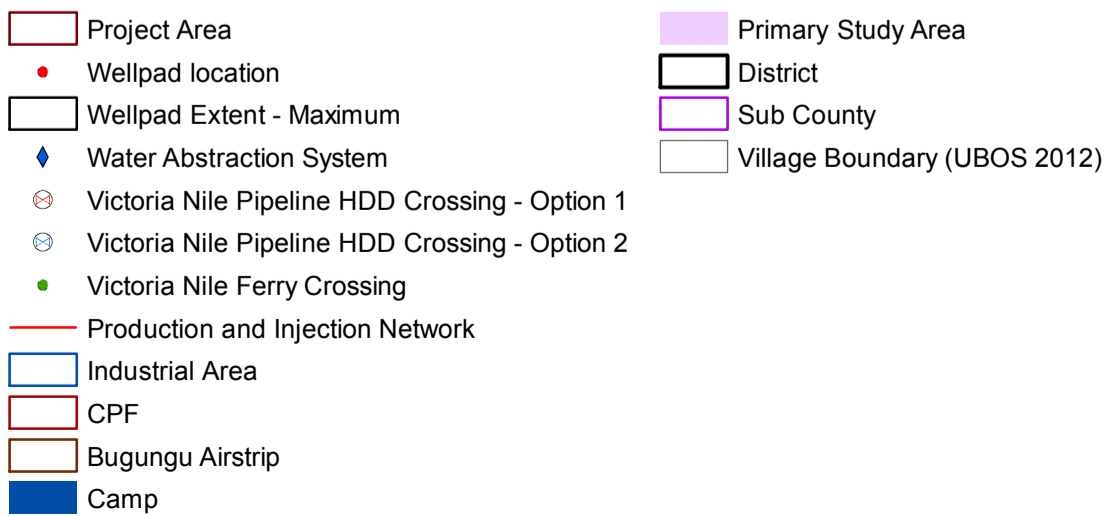


FIGURE 16.3 - VILLAGE BOUNDARIES



Project:
Tilenga Project ESIA

Client:
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Operations Pty Ltd

Designed: LC
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Date: 01/06/2018
Scale @ A3: 1:100,000

Coordinate Reference System:
WGS 1984 UTM Zone 36N

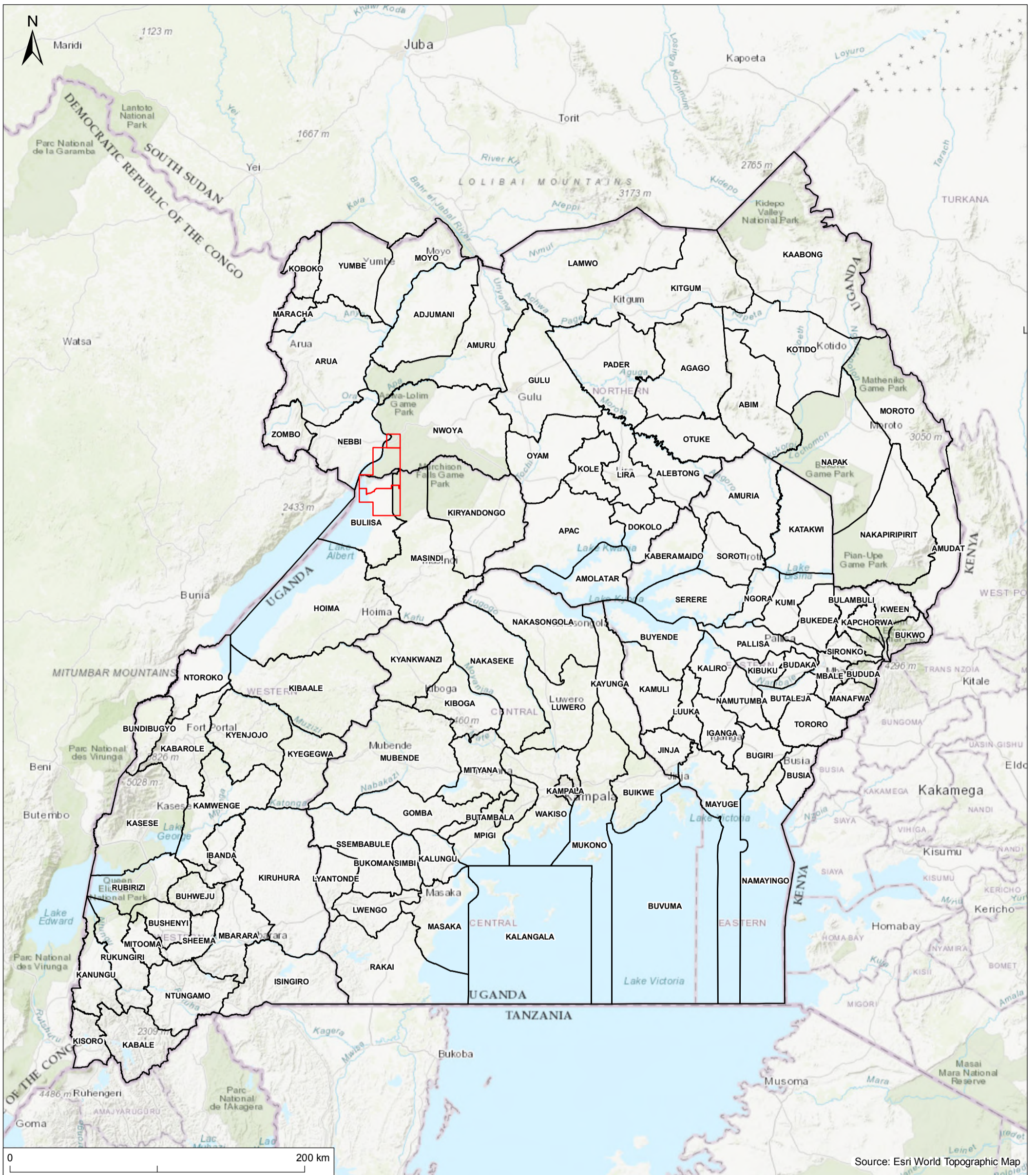


FIGURE 16.5 - DISTRICTS OF UGANDA

- Project Area
- District Boundary - 2014 Energy Sector WG

Project:	Tilenga Project ESIA	 TILENGA PROJECT
Client:	Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd	
Designed:	LC	 AECOM
Checked:	GM	
Approved:	MW	Date: 01/06/2018 Scale @ A3: 1:2,500,000
Coordinate Reference System:		WGS 1984 UTM Zone 36N

Since the data in this map is from 2014, it does not reflect some of the most recent District creations such as Pakwach District

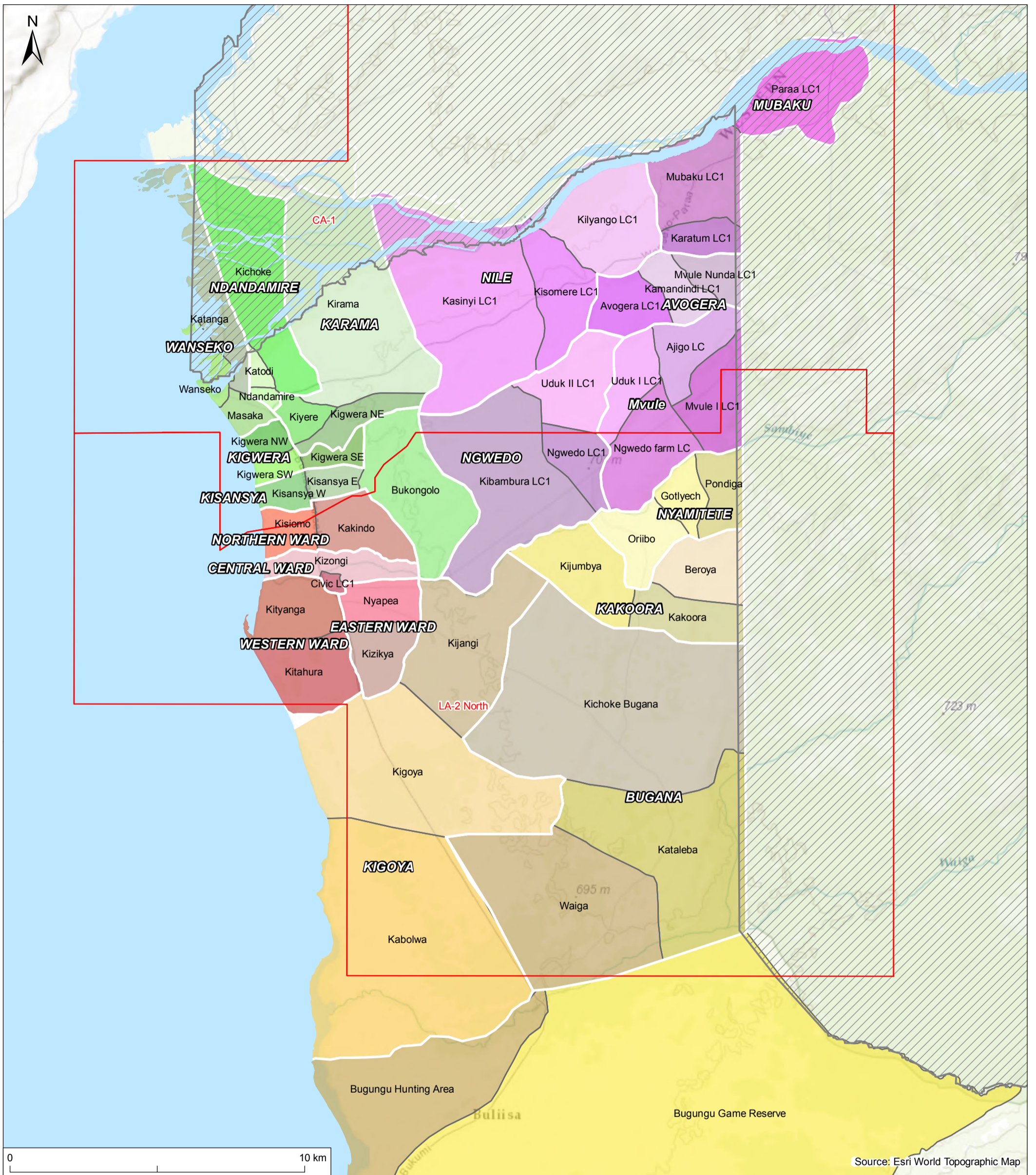


FIGURE 16.6 - ADMINISTRATIVE BOUNDARIES IN BULIISA DISTRICT



Project:	Tilenga Project ESIA	
Client:	Total E&P Uganda B.V. and Tullow Uganda Operations Pty Ltd	
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Checked:	GM	
Approved:	MW	Date: 01/06/2018
Coordinate Reference System:	WGS 1984 UTM Zone 36N	Scale @ A3: 1:125,000