

SURVEY & MAPPING BUCHANAN PORT AREA, LIBERIA

Client

ArcelorMittal Liberia

Location / Date

Buchanan, Liberia / July – August 2008

Background

ArcelorMittal is currently in the process to refurbish the iron ore port facilities of Buchanan, which have been dismantled during the civil war in Liberia. AML is planning to use the port for iron ore shipping, which will be produced approx. 260km Northeast of Buchanan. As all topographic information of the port area was lost during the civil war, iMO has been commissioned to perform a topographic survey using terrestrial laser scanning and GNSS as survey technologies.

Scope of Work

- 1) Vectorization of existing structures on ArcelorMittal's port concession like buildings, tanks, foundations etc. from aerial imagery gained during a flight campaign in January
- 2) Surveying of the port site using terrestrial laser scanning technology in combination with RTK GPS for the acquisition of the DTM (Digital Terrain Model) and for the acquisition of structure heights
- 3) Processing of terrestrial laser scanning data and amendment of the digitized image information with the information from the terrestrial laser scanning survey and production of maps

Deliveries

- 1: 2500 plotted hardcopy of the port concession area
- Complete CAD project in dwg format
- Listing of all structures with coordinates and descriptions
- DTM of the port concession area

Time Required

10 days field survey, 1.5 month processing and mapping

Scanning Equipment

Scanner I-SiTE 4400 + Leica 1200 series GNSS equipment (Rover + Base Station)

