Table 21 Surface properties (Water bodies)

| | DATA OPTION 1: | DATA OPTION 2: |
|---|-------------------------------|---|
| | Landsat ETM | MODIS |
| Spatial Dimensions | | |
| | 1051 | 05001 |
| Area to cover | 185km x 185km per scene | 2500 km swath width |
| Mapping unit | 15m panchromatic | 250 m (bands 1-2) |
| appg a | 30m multi-spectral | 500 m (bands 3-7) |
| | • | 1000 m (bands 8-36) |
| Positional accuracy | | |
| | Dependent on | Dependent on |
| | geo-referencing process | geo-referencing process |
| Temporal Dimensions | | |
| Dimensions | | |
| When | Approx 9.45am | Approx 10.30am (Terra) and |
| | , aprex or roun. | 1.30pm (Aqua) |
| How often | Every 16 days | |
| | | Daily |
| Variable to map | Water bodies – land cover | Water bodies – land cover |
| | type map | type map |
| Environmental Postmisticus | Claud aguar | Cloud cover |
| Environmental Restrictions | Cloud cover | Cloud cover |
| | | |
| Processing technique | Image classification or | Image classification or |
| 3 4 | feature detection | feature detection |
| (Output) | | |
| | Landcover type mapNote: | Landcover type map |
| | The ability to map specific | Note: The ability to map |
| | targets will depend on their | specific targets will depend |
| Pagaurage | form and extent. | on their form and extent PC |
| Resources – Hardware | Image processing software | |
| and Software | GIS with image classification | Image processing software GIS with image classification |
| ana Contware | module (e.g. ARCGIS Image | module (e.g. ARCGIS Image |
| | Analyst) | Analyst) |
| Resource – Personnel | Trained in image | Trained in image |
| | classification | classification |
| | Experience with Landsat | Experience with MODIS data |
| | data | Knowledge of area to be |
| | Knowledge of area to be | mapped |
| Deferences | mapped | |
| References: Note these are some example | | |
| references | | |
| 1010101000 | | |