

GPS Services

→ **Grid Sampling**

A grid is over-laid on a field (like laying a sheet of graph paper over land) and where each grid line intersects, a soil sample is taken.

→ **Zone Sampling**

Management zones are defined by producer knowledge, experience, and other input factors (yield, aerial imagery, etc.) Nutrient levels and soil type of each management zone can be determined by obtaining a number of sample points from each of the distinct areas.

→ **Topography Mapping/Slope Mapping**

Using state of the art technology, altitude can be accurately measured using a reference point in the field. Topography results are usually sub-centimeter accurate. Slope mapping can accurately assess the drainage of a field.

→ **VRT Prescription Writing**

Based on A&L Recommendations & grower input, variable rate application rates can be determined to meet production needs. Our data formats can accommodate the many forms of Variable Rate equipment on the market.

→ **Yield Processing Services**

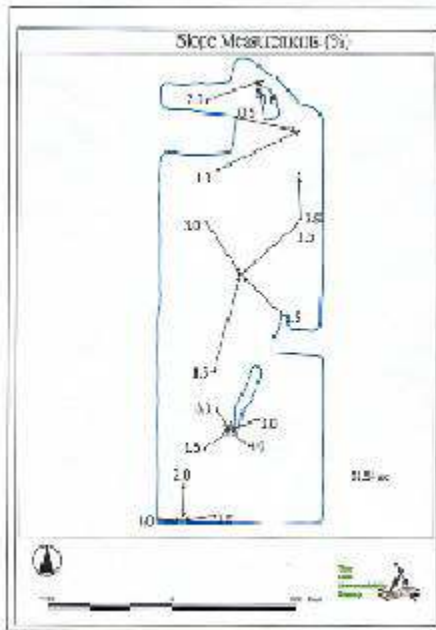
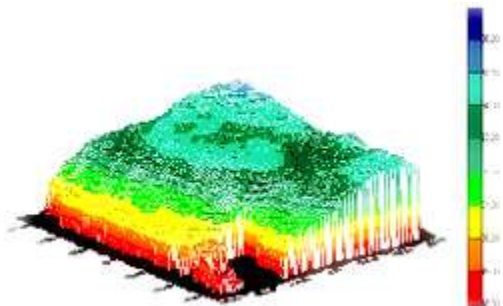
Many different types of yield data collected in the field can be processed.

→ **Data Management**

A&L collects and stores data for clients in a structured, efficient manner with fast data recovery. Files can be electronically transferred in the format that the customer wishes (free of charge if the field was originally sampled by A&L). Reports can also be queried to further interpret results.

→ **Data Processing & Mapping Services**

Data processing and map generation services are derived from soil analysis information.



→ **Precision Agriculture Specialists**

GPS technology enables accurate nutrient level and soil type assessment. From this information management decisions can be made to enhance production or correct and remediate problem areas.

→ **Services:**

- Site Specific Sampling
- Zone Sampling
- Bulk/Composite Sampling
- Topography Mapping
- Remote Sensing

GPS Technology

→ **Data Collection Hardware & Software:**

- Trimble 12 Channel Receiver
- Farmworks Site Mate Software
- HP iPaq

→ **GIS Software Packages**

- A&L Custom Mapping Software
- SSToolbox ver 3.2(SST Development)
- Vision System 4.1 (Rockwell/Delta Data Systems)
- Plot & Plan(RDS)
- Surfer32 v.6.04(Golden)
- Arview GIS 3.0(ESRI)



GPS Mapping

→ **Here are a list of mapping services that we offer at A&L:**

- Zone Sampling
- Site Specific Sampling
- Nutrient Management