

GHD

Airborne Geophysical Survey Operations Report

Rogetta



**Thomson Aviation Job
F14097**



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PART 1 - SPECIFICATIONS FOR AIRBORNE GEOPHYSICAL SURVEY

1.1 SURVEY DETAILS

| | |
|---------------------------------|----------------|
| Start Date | 10/12/2014 |
| End Date | 13/12/2014 |
| | |
| Time Base - Magnetics | 20 Hz |
| Time Base - Radiometrics | 2 Hz |
| | |
| Base Mag Locations | Wynyard |
| | |
| Ground Cals Locations | Wynyard |
| | |
| Test Line Locations | Wynyard |
| | |
| Block 1 | F14097_Rogetta |
| | |
| Total Processed Line Kilometers | 870.0 |



1.2 LOCATION MAP

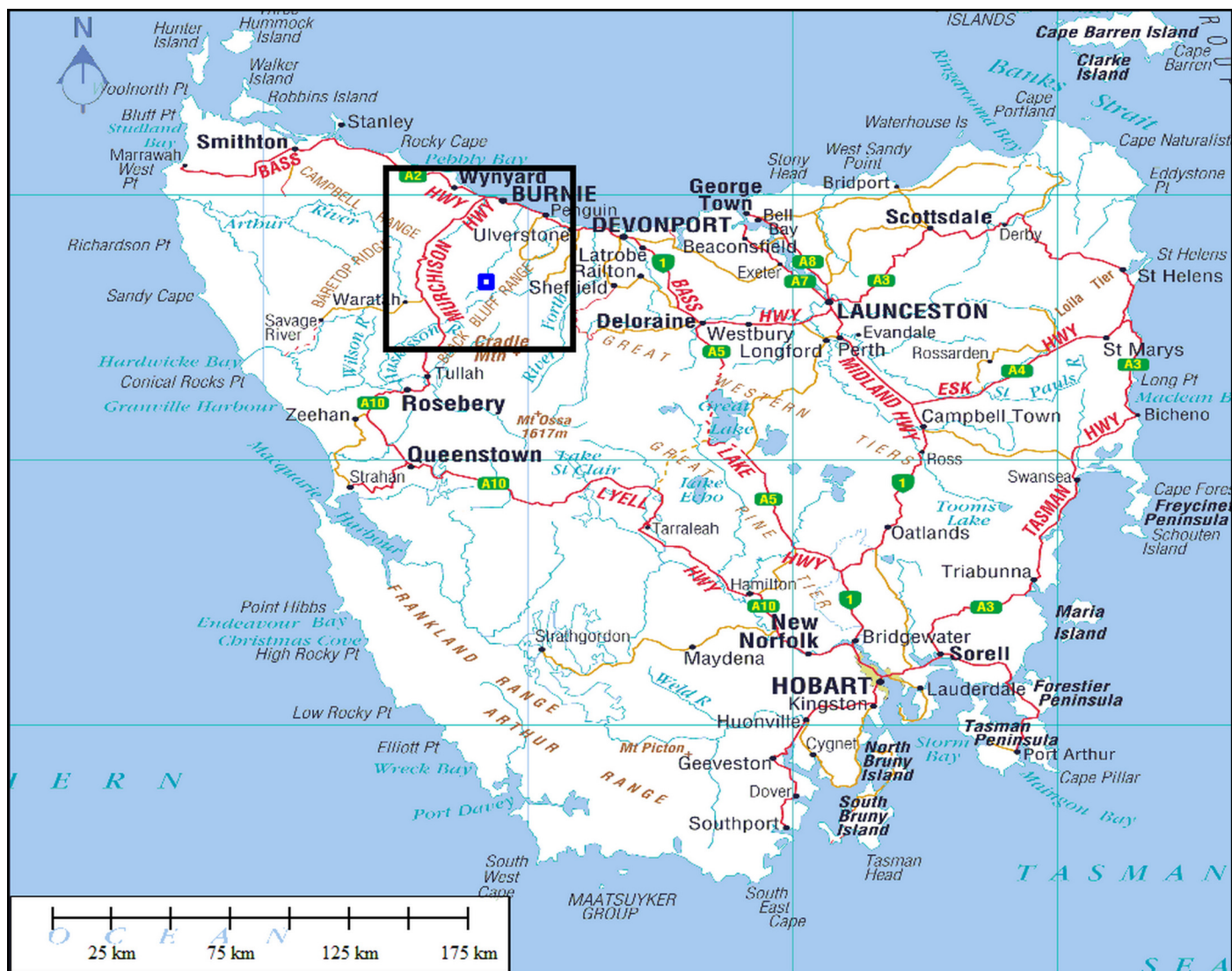


Figure 1 Rogetta



1.3 SURVEY SPECIFICATIONS

| F14097_Rogetta | |
|---------------------------|-------|
| Traverse line direction | 90 |
| Traverse line spacing | 25 m |
| Tie line direction | 180 |
| Tie line spacing | 250 m |
| Block Traverse Kilometers | 763 |
| Block Tie Kilometers | 80 |
| Block Total Kilometers | 843 |

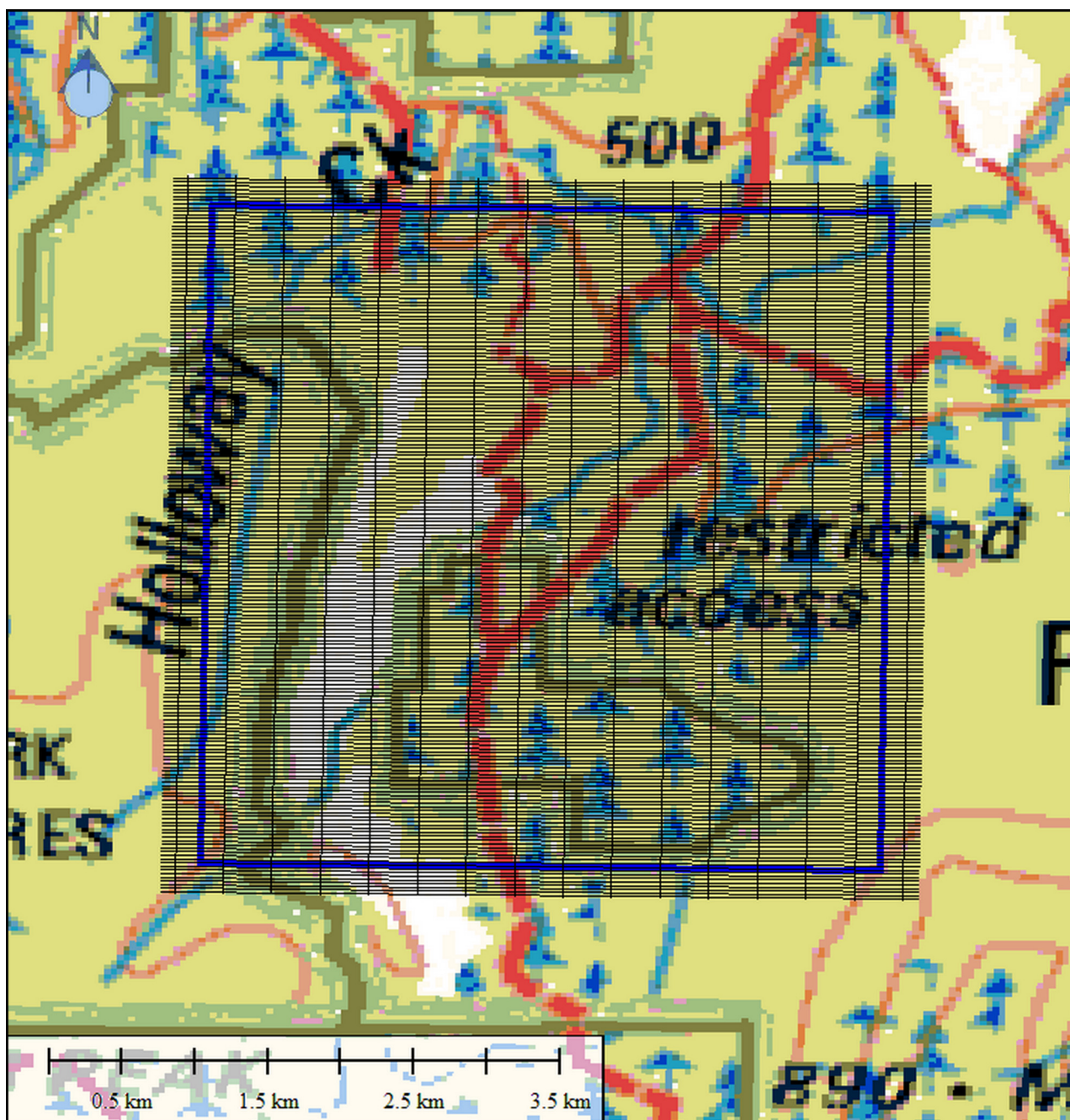


Figure 2 F14097_Rogetta



1.4 CALIBRATION RANGE

The radiometric systems for each aircraft were calibrated using the Geoscience Australia calibration range in Carnamah WA to determine the ground concentration coefficients for the radiometric systems.

Cosmic stacks were flown over water to determine the aircraft and cosmic coefficients.

Height attenuation coefficients were determined from IAEA recommended attenuation coefficients.

1.5 IN FIELD CALIBRATION

a) Spectrometer

The gamma ray spectrometer response was verified by exposing the system to thorium test samples for a time sufficient to accumulate 10,000 counts.

Frequency Before the first flight and after the last flight of each day when survey operations were conducted.

All background corrected counts fell within +/- 3% of the mean over the survey period.

Results of thorium test sample measurements can be found in Appendix B and Appendix C.

b) Test Line

Test lines are flown at the specified survey height to verify magnetometer, spectrometer and barometric altimeter baselines.

Length 10km

Direction Bi-Directional

Frequency Before the first flight and after the last flight of each day when survey operations were conducted.

The test line thorium counts fell within +/- 7% of the mean over the survey period.

Results of test line thorium counts can be found in Appendix B and Appendix C

c) Compensation Flight

The compensation flight was carried out to determine what manoeuvring effects the aircraft will have while collecting magnetic data. These effects are removed during data processing to produce true magnetic data.

Frequency Before the commencement of the survey project and after each scheduled maintenance operation.



1.6 IN FIELD VERIFICATION AND PROCESSING

Thomson Aviation conducts stringent real time data validity checks.

The following products were generated on site from the ChrisDBF database program and Thomson Aviation proprietary software:

- Flight path plots, to demonstrate quality of navigation
- Magnetic stacked profiles, to demonstrate character of magnetic data
- Statistical summary of line data
- Magnetometer base station plots
- Progressive image presentation of magnetic and topographic data
- Daily plots of aircraft parking locations to verify GPS position

1.7 NAVIGATION AND POSITIONING

Navigation was provided using a mobile Novatel OEMV-1 VBS receiver. This equipment provides flight guidance to the pilot as well as flight path information which was recorded for subsequent processing.

Differential GPS data was obtained in real time using static GPS data obtained from the Omnistar wide area GPS service.

Position relative to the survey line was displayed to the pilot by an accurate and effective system proprietary to Thomson Aviation.

Under normal circumstances differential GPS is expected to yield positional accuracies in the order of 5 meters RMS or better.



PART 2 - AIRCRAFT

The aircraft used for survey operations combine good manoeuvrability with a magnetically clean base to provide maximum magnetic sensor performance.

2.1 VH-THS

| Aircraft Information | |
|----------------------|--------------------|
| Engine | Piston |
| Fuel | AVGAS |
| Fuel Burn | 65 litres per hour |
| Typical Survey Speed | 130 knots |
| Stall Speed | 60 knots |



Figure 3 Example Aircraft: Cessna C210

PART 3 - SURVEY INSTRUMENTATION

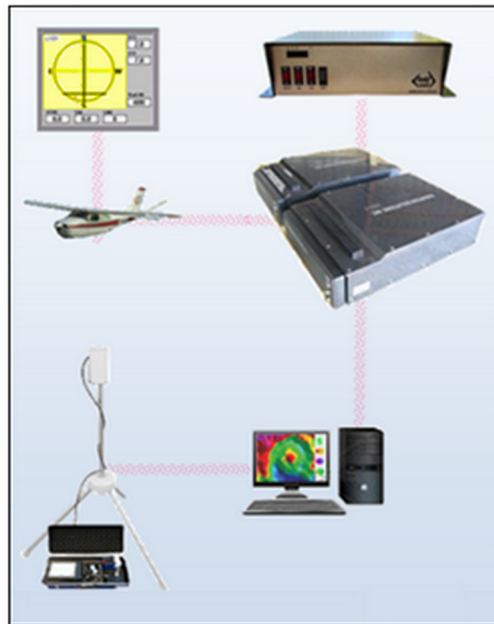


Figure 4 System Outline

3.1 MAGNETOMETER

The Geometrics G822A Magnetometer is a highly sensitive unit incorporating an optically pumped sensor. The constant harmonic frequency from the sensor is proportional to the surrounding scalar magnetic field. This frequency is resolved by the Counter / Processor which provides the magnetic field to a nominal accuracy of 0.01nT with a data capture rate of 20 times per second both in analog and digital formats.

The sensor and pre-amp are mounted in a stinger assembly which may be attached to the front or rear of the survey aircraft.



Figure 5 G822A Magnetometer and Typical Stinger Mounts

3.2 RADAR ALTIMETER

Type: King KR 495B Radar Altimeter



Figure 6 Radar Altimeter

This unit is a high resolution, short pulse ratio altitude system designed for automatic continuous operation over a wide variations of terrain and weather conditions, target reflectivity, and aircraft altitude. It provides an accurate terrain clearance indication ranging from 0 to 650m (0 to 2,000ft).

3.3 BAROMETRIC ALTIMETER

Type: Setra 276 Pressure Transducer



Figure 7 Pressure transducer

This type of pressure transducer over a range of 600 to 1100 mB and has infinite resolution (limited only by system noise). The sensor is referenced to the height given by the GPS.

3.4 DATA ACQUISITION SYSTEM

Type: GeOZ-DAS Digital Data Acquisition System



Figure 8 Zdas System

The GeOZ system manages the data acquisition and saves the data to removable Flash Cards.

It provides guidance and real time error diagnostics for the pilot.

Acquired data is transferred to a field computer on completion of the flight for both verification and archiving prior to being shipped to the processing centre.



3.5 NAVIGATION EQUIPMENT

Type: Novatel OEMV-1VBS GPS Receiver



Figure 9 GPS Receiver

This equipment is a 12 channel parallel tracking receiver capable of providing sub-meter resolution at 5Hz and is integrated with the GeOZ-DAS acquisition unit.

3.6 GAMMA RAY SPECTROMETER SYSTEM

Type: Radiations Solutions Inc. RS 400 Spectrometer

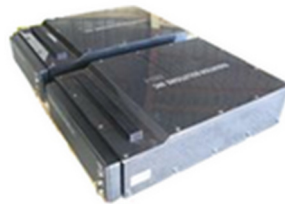


Figure 10 RS 400 Systems

These units deliver high-resolution spectral information from 0.33 MeV to 3.0 MeV including the five primary regions of interest; Total Count, Potassium, Uranium, Thorium and Cosmic.

The Gamma Ray Spectrometer is interfaced to a NaI (TI) crystal detector pack with a total volume of 33 liters (2048 cubic inches). These detector packs embody the latest techniques whereby the elimination of dead time in the counting process yields up to 30% more counts over other commercial systems.

Superior calibration facilities included the visual real time monitoring of full spectrum data and in flight monitoring of gain drift relative to the selected isotope window maintain long-term data quality.

Enhancement of the spectrometer data is achieved by noise reduction techniques (NASVD or MNF), followed by dead time correction, energy calibration, cosmic/aircraft background correction and atmospheric radon removal all applied to the 256 channel data. Spectral stripping, height correction and conversion to radio-element concentrations are then applied prior to gridding and micro-levelling.

The gamma ray spectrometer response was verified by exposing the system to thorium test samples for a time sufficient to accumulate 10,000 counts.



3.7 BASE STATION MAGNETOMETER

Two units are used in tandem for diurnal monitoring. These units run continuously during the survey periods and record the data in digital format.

Base station magnetometer instruments record data to a sensitivity of 0.1nT every 6 seconds.

During data acquisition, if the non-linear diurnal variation was greater than 5 nt in 5 minutes, or the deviation from a straight line chord of length 10 minutes exceeded 10 nT, the line was re flown.



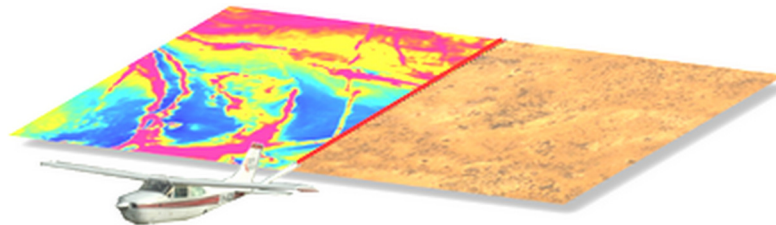
Figure 11 Setting up base station magnetometer



Figure 12 Magnetometer and Data Console

PART 4 - CONTACT INFORMATION

| | |
|----------------|--|
| Company Name | Thomson Aviation Pty Ltd |
| ABN | 88 125 552 132 |
| Director | Paul Rogerson |
| Mobile | 0427 681484 |
| Main Office | Hangar 14, Griffith Airport NSW, 2680 |
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| Fax | 02 6962 2992 |
| Email | paul@thomsonaviation.com.au |



PART 5 - APPENDICES

APPENDIX A DAILY REPORTS



Daily Log

| Date | Flt Num | Block(s) | Operator(s) | Aircraft | SBY | MNT | SUS | Comments |
|------------|---------|----------------|-------------|----------|-----|-----|-----|---|
| 10/12/2014 | | F14097_Rogetta | | VH-THS | | | | Ferry from Griffith to Wynyard |
| 10/12/2014 | 2 | F14097_Rogetta | C Dixon | VH-THS | | | | |
| 10/12/2014 | 1 | F14097_Rogetta | C Dixon | VH-THS | | | | Compbox carried out |
| 11/12/2014 | 3 | F14097_Rogetta | C Dixon | VH-THS | | | | |
| 11/12/2014 | 4 | F14097_Rogetta | C Dixon | VH-THS | | | | Aircraft parked in our spot had to park else where. |



APPENDIX B

CALIBRATION AND TEST LINE VARIATION TABLES



Av Normalized Th: 341.9 Min TH: 335.4 Max TH: 345.2 Standard Deviation: 4.4

Ground Cals - VH-THS - Wynyard

| | | Position | | | Hand Sample | | | | Background | | | | Normalized | | | | Th Cal Results | | TH Chg | Diff |
|------------|-----|-----------|------------|--------|-------------|-------|-------|-------|------------|-------|------|------|------------|-------|-------|-------|----------------|--------|--------|-------|
| Date | Flt | East | North | GPS Ht | TC | Pot | Ura | Tho | TC | Pot | Ura | Tho | TC | Pot | Ura | Tho | ThPeak | % FWHM | +/- 3% | 5 max |
| 10/12/2014 | 2 | 392751.03 | 5461157.95 | 20.3 | 5985.2 | 281.0 | 143.1 | 367.8 | 946.9 | 126.6 | 25.4 | 24.7 | 5038.3 | 154.4 | 117.7 | 343.1 | 217.41 | 4.45 | 0.4 | 0.0 |
| 10/12/2014 | 1 | 392752.45 | 5461158.38 | 18.8 | 5911.2 | 277.6 | 145.7 | 363.1 | 1009.5 | 127.9 | 28.2 | 27.7 | 4901.7 | 149.7 | 117.5 | 335.4 | 217.55 | 4.60 | -1.9 | 1.5 |
| 11/12/2014 | 3 | 392750.66 | 5461157.48 | 19.8 | 5999.6 | 278.2 | 146.4 | 370.9 | 967.2 | 127.2 | 26.7 | 25.7 | 5032.4 | 151.0 | 119.7 | 345.2 | 217.50 | 4.43 | 1.0 | 0.6 |
| 11/12/2014 | 4 | 392729.28 | 5461158.26 | 18.6 | 6060.0 | 289.9 | 147.6 | 371.1 | 1013.3 | 137.0 | 27.1 | 27.2 | 5046.7 | 152.9 | 120.5 | 343.9 | 217.76 | 4.42 | 0.6 | 21.8 |



Av Normalized Th: 70.4 Min TH: 69.4 Max TH: 71.4 Standard Deviation: 1.4

Test Lines - VH-THS - Wynyard

| Date | Flt | 801 | | | | Flt | 802 | | | | Normalized | | | | TH Chg +/- 7% |
|------------|-----|--------|-------|------|------|-----|--------|-------|------|------|------------|-------|------|------|------------------|
| | | TC | Pot | Ura | Tho | | TC | Pot | Ura | Tho | TC | Pot | Ura | Tho | |
| 10/12/2014 | 2 | 1570.6 | 108.2 | 51.3 | 68.3 | 2 | 1646.7 | 118.8 | 52.5 | 70.6 | -76.1 | -10.6 | -1.2 | 69.4 | -1.4 |
| 11/12/2014 | 3 | 1594.1 | 114.7 | 51.5 | 67.9 | 4 | 1687.2 | 120.1 | 54.9 | 74.8 | -93.1 | -5.4 | -3.4 | 71.4 | 1.4 |



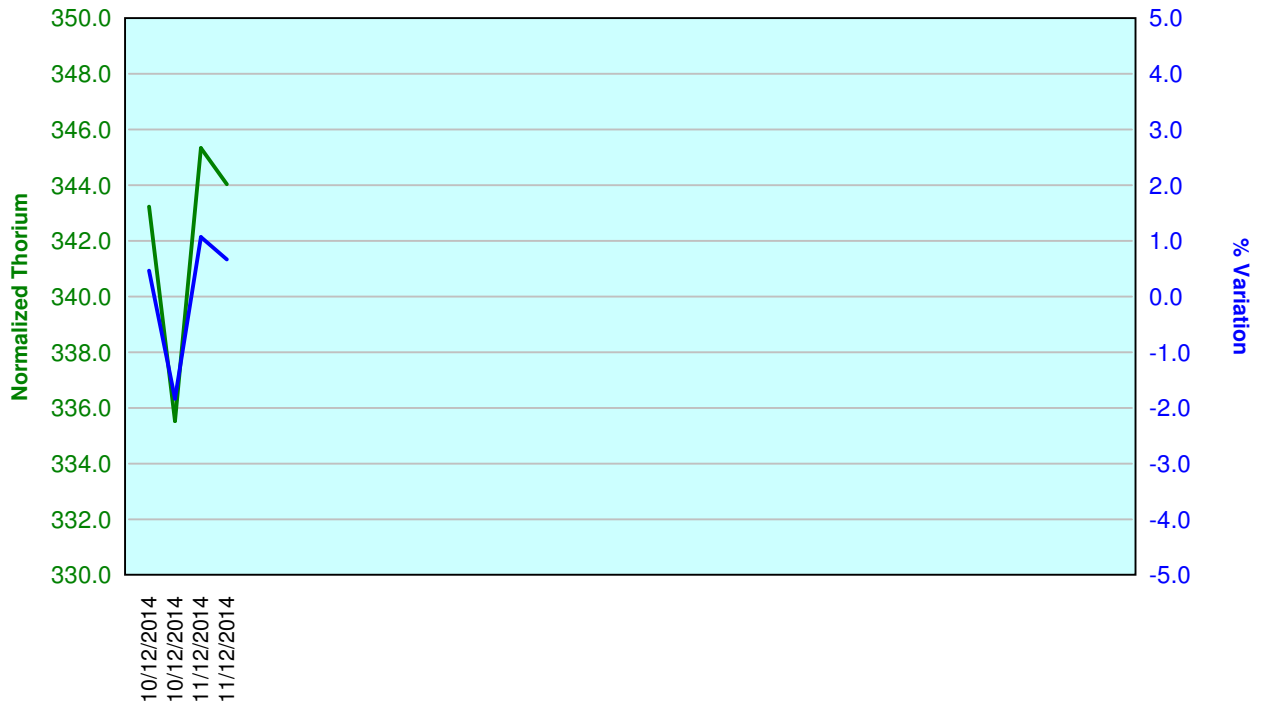
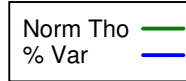
APPENDIX C

CALIBRATION AND TEST LINE VARIATION CHARTS



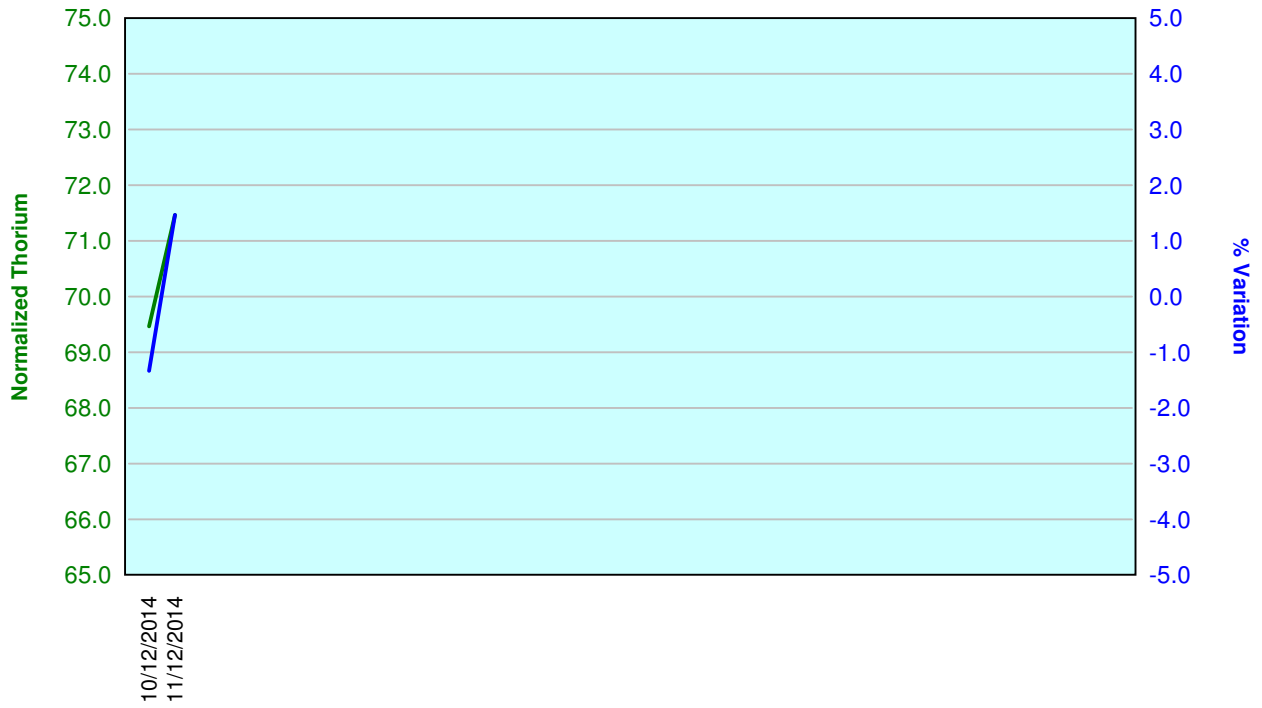
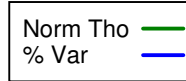
Sample Variations

Aircraft: VH-THS Base: Wynyard



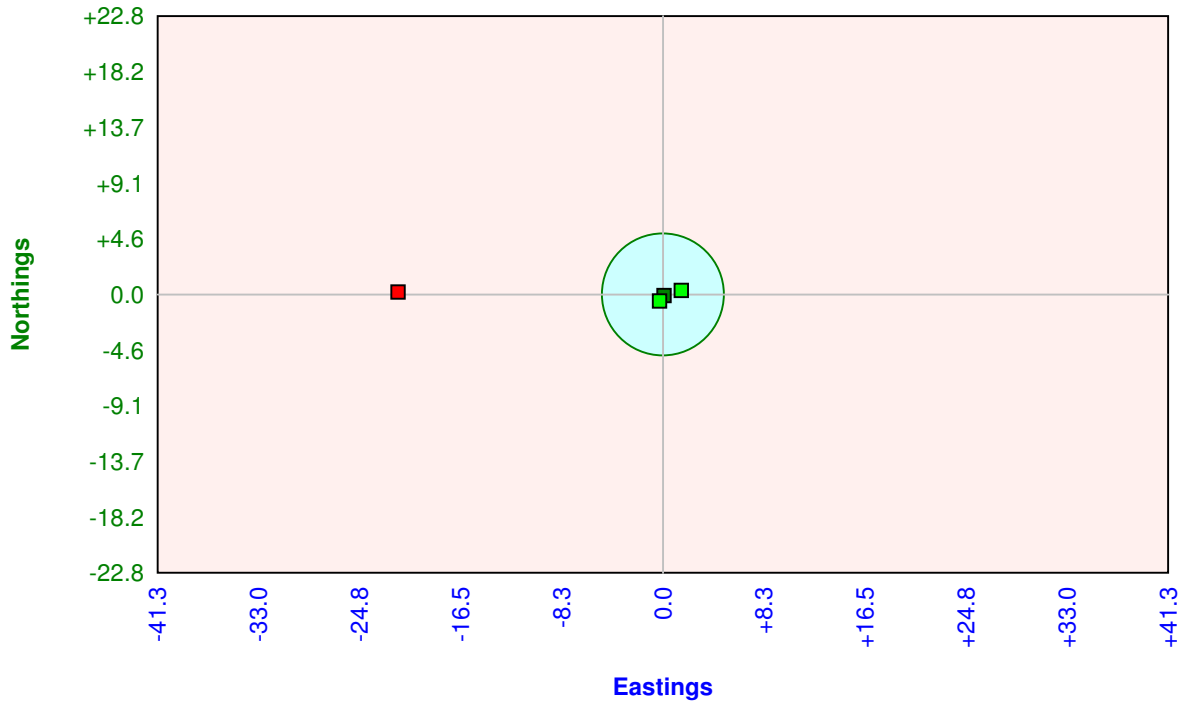
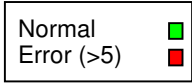
Test Line Variations

Aircraft: VH-THS Base: Wynyard



Hand Sample Calibration Positions

Aircraft: VH-THS Base: Wynyard



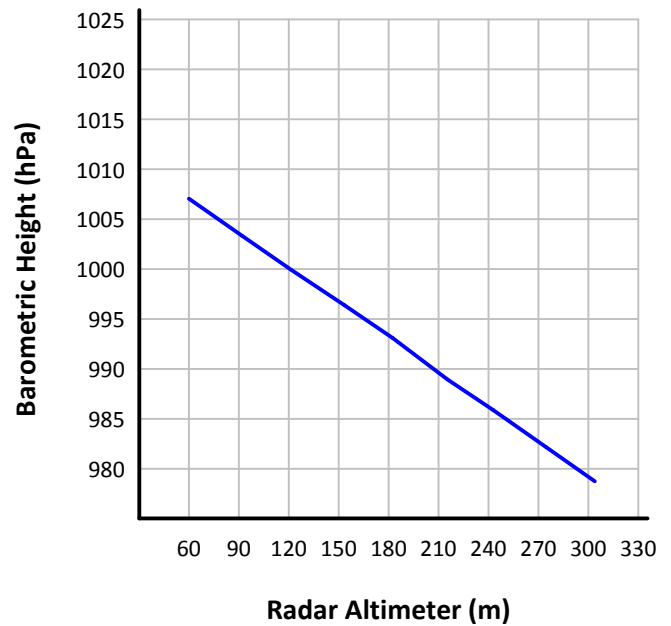
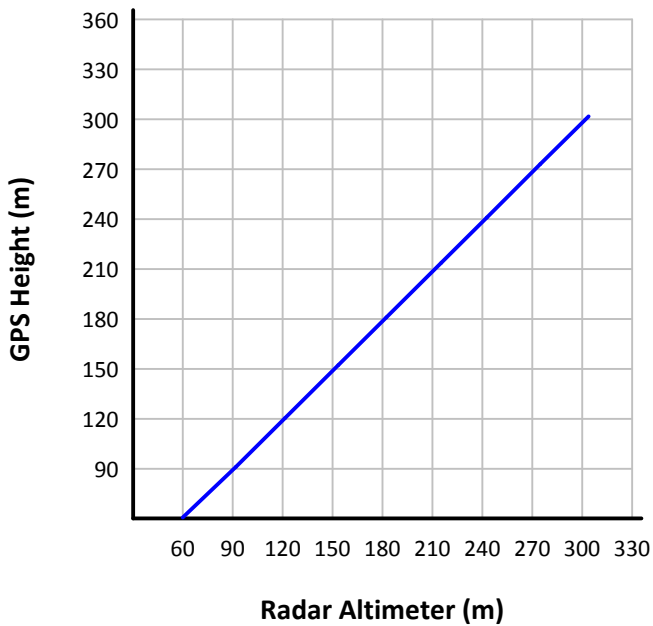
APPENDIX D

RADAR ALTIMETER AND BAROMETRIC ALTIMETER CHECKS



VH-THS

| RadAR Altimeter (m) | Barometric Height (hPa) | GPS Height (m) |
|---------------------|-------------------------|----------------|
| 59.97 | 1007.06 | 60.63 |
| 91.81 | 1003.35 | 91.07 |
| 121.25 | 999.92 | 120.34 |
| 153.42 | 996.38 | 152.20 |
| 182.39 | 993.11 | 181.01 |
| 215.43 | 988.95 | 213.94 |
| 242.73 | 985.88 | 240.89 |
| 274.88 | 982.13 | 273.03 |
| 303.85 | 978.73 | 301.80 |



Calibration flights for VH-THS were flown on 19/12/2013



APPENDIX E
BOUNDARY COORDINATES



F14097_Rogetta, Datum: GDA 94, Zone: 55

| Eastings | Northings |
|-----------|------------|
| 401150.03 | 5426674.98 |
| 404649.99 | 5426675.05 |
| 404650.04 | 5422175.00 |
| 401150.01 | 5422175.06 |



APPENDIX F

LINE SPECIFICATIONS



F14097_Rogetta

| Line | Type | Easting | Northing | Easting | Northing | Direc | Length | Tv | Cumul | Ti | Cumul |
|--------|------|-----------|------------|-----------|------------|-------|--------|----|-------|----|-------|
| 100010 | Trav | 400960.30 | 5421990.00 | 404850.54 | 5421990.00 | 90.0 | 3.9 | | 3.9 | | 0.0 |
| 100020 | Trav | 400960.30 | 5422015.00 | 404850.54 | 5422015.00 | 90.0 | 3.9 | | 7.8 | | 0.0 |
| 100030 | Trav | 400960.30 | 5422040.00 | 404850.54 | 5422040.00 | 90.0 | 3.9 | | 11.7 | | 0.0 |
| 100040 | Trav | 400960.30 | 5422065.00 | 404850.54 | 5422065.00 | 90.0 | 3.9 | | 15.6 | | 0.0 |
| 100050 | Trav | 400960.30 | 5422090.00 | 404850.54 | 5422090.00 | 90.0 | 3.9 | | 19.5 | | 0.0 |
| 100060 | Trav | 400960.30 | 5422115.00 | 404850.54 | 5422115.00 | 90.0 | 3.9 | | 23.3 | | 0.0 |
| 100070 | Trav | 400960.30 | 5422140.00 | 404850.54 | 5422140.00 | 90.0 | 3.9 | | 27.2 | | 0.0 |
| 100080 | Trav | 400960.30 | 5422165.00 | 404850.54 | 5422165.00 | 90.0 | 3.9 | | 31.1 | | 0.0 |
| 100090 | Trav | 400960.30 | 5422190.00 | 404850.54 | 5422190.00 | 90.0 | 3.9 | | 35.0 | | 0.0 |
| 100100 | Trav | 400960.30 | 5422215.00 | 404850.54 | 5422215.00 | 90.0 | 3.9 | | 38.9 | | 0.0 |
| 100110 | Trav | 400960.30 | 5422240.00 | 404850.54 | 5422240.00 | 90.0 | 3.9 | | 42.8 | | 0.0 |
| 100120 | Trav | 400960.30 | 5422265.00 | 404850.54 | 5422265.00 | 90.0 | 3.9 | | 46.7 | | 0.0 |
| 100130 | Trav | 400960.30 | 5422290.00 | 404850.54 | 5422290.00 | 90.0 | 3.9 | | 50.6 | | 0.0 |
| 100140 | Trav | 400960.30 | 5422315.00 | 404850.54 | 5422315.00 | 90.0 | 3.9 | | 54.5 | | 0.0 |
| 100150 | Trav | 400960.30 | 5422340.00 | 404850.54 | 5422340.00 | 90.0 | 3.9 | | 58.4 | | 0.0 |
| 100160 | Trav | 400960.30 | 5422365.00 | 404850.54 | 5422365.00 | 90.0 | 3.9 | | 62.2 | | 0.0 |
| 100170 | Trav | 400960.30 | 5422390.00 | 404850.54 | 5422390.00 | 90.0 | 3.9 | | 66.1 | | 0.0 |
| 100180 | Trav | 400960.30 | 5422415.00 | 404850.54 | 5422415.00 | 90.0 | 3.9 | | 70.0 | | 0.0 |
| 100190 | Trav | 400960.30 | 5422440.00 | 404850.54 | 5422440.00 | 90.0 | 3.9 | | 73.9 | | 0.0 |
| 100200 | Trav | 400960.30 | 5422465.00 | 404850.54 | 5422465.00 | 90.0 | 3.9 | | 77.8 | | 0.0 |
| 100210 | Trav | 400960.30 | 5422490.00 | 404850.54 | 5422490.00 | 90.0 | 3.9 | | 81.7 | | 0.0 |
| 100220 | Trav | 400960.30 | 5422515.00 | 404850.54 | 5422515.00 | 90.0 | 3.9 | | 85.6 | | 0.0 |
| 100230 | Trav | 400960.30 | 5422540.00 | 404850.54 | 5422540.00 | 90.0 | 3.9 | | 89.5 | | 0.0 |
| 100240 | Trav | 400960.30 | 5422565.00 | 404850.54 | 5422565.00 | 90.0 | 3.9 | | 93.4 | | 0.0 |
| 100250 | Trav | 400960.30 | 5422590.00 | 404850.54 | 5422590.00 | 90.0 | 3.9 | | 97.3 | | 0.0 |
| 100260 | Trav | 400960.30 | 5422615.00 | 404850.54 | 5422615.00 | 90.0 | 3.9 | | 101.1 | | 0.0 |
| 100270 | Trav | 400960.30 | 5422640.00 | 404850.53 | 5422640.00 | 90.0 | 3.9 | | 105.0 | | 0.0 |
| 100280 | Trav | 400960.30 | 5422665.00 | 404850.53 | 5422665.00 | 90.0 | 3.9 | | 108.9 | | 0.0 |
| 100290 | Trav | 400960.30 | 5422690.00 | 404850.53 | 5422690.00 | 90.0 | 3.9 | | 112.8 | | 0.0 |
| 100300 | Trav | 400960.30 | 5422715.00 | 404850.53 | 5422715.00 | 90.0 | 3.9 | | 116.7 | | 0.0 |
| 100310 | Trav | 400960.30 | 5422740.00 | 404850.53 | 5422740.00 | 90.0 | 3.9 | | 120.6 | | 0.0 |
| 100320 | Trav | 400960.30 | 5422765.00 | 404850.53 | 5422765.00 | 90.0 | 3.9 | | 124.5 | | 0.0 |
| 100330 | Trav | 400960.30 | 5422790.00 | 404850.53 | 5422790.00 | 90.0 | 3.9 | | 128.4 | | 0.0 |
| 100340 | Trav | 400960.30 | 5422815.00 | 404850.53 | 5422815.00 | 90.0 | 3.9 | | 132.3 | | 0.0 |
| 100350 | Trav | 400960.30 | 5422840.00 | 404850.53 | 5422840.00 | 90.0 | 3.9 | | 136.2 | | 0.0 |
| 100360 | Trav | 400960.30 | 5422865.00 | 404850.53 | 5422865.00 | 90.0 | 3.9 | | 140.0 | | 0.0 |
| 100370 | Trav | 400960.30 | 5422890.00 | 404850.53 | 5422890.00 | 90.0 | 3.9 | | 143.9 | | 0.0 |
| 100380 | Trav | 400960.30 | 5422915.00 | 404850.53 | 5422915.00 | 90.0 | 3.9 | | 147.8 | | 0.0 |
| 100390 | Trav | 400960.30 | 5422940.00 | 404850.53 | 5422940.00 | 90.0 | 3.9 | | 151.7 | | 0.0 |
| 100400 | Trav | 400960.30 | 5422965.00 | 404850.53 | 5422965.00 | 90.0 | 3.9 | | 155.6 | | 0.0 |
| 100410 | Trav | 400960.30 | 5422990.00 | 404850.53 | 5422990.00 | 90.0 | 3.9 | | 159.5 | | 0.0 |
| 100420 | Trav | 400960.30 | 5423015.00 | 404850.53 | 5423015.00 | 90.0 | 3.9 | | 163.4 | | 0.0 |
| 100430 | Trav | 400960.30 | 5423040.00 | 404850.53 | 5423040.00 | 90.0 | 3.9 | | 167.3 | | 0.0 |
| 100440 | Trav | 400960.30 | 5423065.00 | 404850.53 | 5423065.00 | 90.0 | 3.9 | | 171.2 | | 0.0 |
| 100450 | Trav | 400960.30 | 5423090.00 | 404850.53 | 5423090.00 | 90.0 | 3.9 | | 175.1 | | 0.0 |
| 100460 | Trav | 400960.30 | 5423115.00 | 404850.53 | 5423115.00 | 90.0 | 3.9 | | 179.0 | | 0.0 |
| 100470 | Trav | 400960.30 | 5423140.00 | 404850.53 | 5423140.00 | 90.0 | 3.9 | | 182.8 | | 0.0 |
| 100480 | Trav | 400960.30 | 5423165.00 | 404850.53 | 5423165.00 | 90.0 | 3.9 | | 186.7 | | 0.0 |
| 100490 | Trav | 400960.30 | 5423190.00 | 404850.53 | 5423190.00 | 90.0 | 3.9 | | 190.6 | | 0.0 |
| 100500 | Trav | 400960.30 | 5423215.00 | 404850.53 | 5423215.00 | 90.0 | 3.9 | | 194.5 | | 0.0 |
| 100510 | Trav | 400960.30 | 5423240.00 | 404850.53 | 5423240.00 | 90.0 | 3.9 | | 198.4 | | 0.0 |
| 100520 | Trav | 400960.30 | 5423265.00 | 404850.53 | 5423265.00 | 90.0 | 3.9 | | 202.3 | | 0.0 |
| 100530 | Trav | 400960.30 | 5423290.00 | 404850.53 | 5423290.00 | 90.0 | 3.9 | | 206.2 | | 0.0 |
| 100540 | Trav | 400960.30 | 5423315.00 | 404850.53 | 5423315.00 | 90.0 | 3.9 | | 210.1 | | 0.0 |
| 100550 | Trav | 400960.30 | 5423340.00 | 404850.53 | 5423340.00 | 90.0 | 3.9 | | 214.0 | | 0.0 |
| 100560 | Trav | 400960.30 | 5423365.00 | 404850.53 | 5423365.00 | 90.0 | 3.9 | | 217.9 | | 0.0 |
| 100570 | Trav | 400960.30 | 5423390.00 | 404850.53 | 5423390.00 | 90.0 | 3.9 | | 221.7 | | 0.0 |
| 100580 | Trav | 400960.30 | 5423415.00 | 404850.53 | 5423415.00 | 90.0 | 3.9 | | 225.6 | | 0.0 |
| 100590 | Trav | 400960.30 | 5423440.00 | 404850.53 | 5423440.00 | 90.0 | 3.9 | | 229.5 | | 0.0 |
| 100600 | Trav | 400960.30 | 5423465.00 | 404850.53 | 5423465.00 | 90.0 | 3.9 | | 233.4 | | 0.0 |
| 100610 | Trav | 400960.30 | 5423490.00 | 404850.53 | 5423490.00 | 90.0 | 3.9 | | 237.3 | | 0.0 |
| 100620 | Trav | 400960.30 | 5423515.00 | 404850.53 | 5423515.00 | 90.0 | 3.9 | | 241.2 | | 0.0 |
| 100630 | Trav | 400960.30 | 5423540.00 | 404850.52 | 5423540.00 | 90.0 | 3.9 | | 245.1 | | 0.0 |
| 100640 | Trav | 400960.30 | 5423565.00 | 404850.52 | 5423565.00 | 90.0 | 3.9 | | 249.0 | | 0.0 |
| 100650 | Trav | 400960.30 | 5423590.00 | 404850.52 | 5423590.00 | 90.0 | 3.9 | | 252.9 | | 0.0 |



F14097_Rogetta (Cont)

| Line | Type | Easting | Northing | Easting | Northing | Direc | Length | Tv | Cumul | Ti | Cumul |
|--------|------|-----------|------------|-----------|------------|-------|--------|-------|-------|----|-------|
| 100660 | Trav | 400960.30 | 5423615.00 | 404850.52 | 5423615.00 | 90.0 | 3.9 | 256.8 | 0.0 | | |
| 100670 | Trav | 400960.30 | 5423640.00 | 404850.52 | 5423640.00 | 90.0 | 3.9 | 260.6 | 0.0 | | |
| 100680 | Trav | 400960.31 | 5423665.00 | 404850.52 | 5423665.00 | 90.0 | 3.9 | 264.5 | 0.0 | | |
| 100690 | Trav | 400960.31 | 5423690.00 | 404850.52 | 5423690.00 | 90.0 | 3.9 | 268.4 | 0.0 | | |
| 100700 | Trav | 400960.31 | 5423715.00 | 404850.52 | 5423715.00 | 90.0 | 3.9 | 272.3 | 0.0 | | |
| 100710 | Trav | 400960.31 | 5423740.00 | 404850.52 | 5423740.00 | 90.0 | 3.9 | 276.2 | 0.0 | | |
| 100720 | Trav | 400960.31 | 5423765.00 | 404850.52 | 5423765.00 | 90.0 | 3.9 | 280.1 | 0.0 | | |
| 100730 | Trav | 400960.31 | 5423790.00 | 404850.52 | 5423790.00 | 90.0 | 3.9 | 284.0 | 0.0 | | |
| 100740 | Trav | 400960.31 | 5423815.00 | 404850.52 | 5423815.00 | 90.0 | 3.9 | 287.9 | 0.0 | | |
| 100750 | Trav | 400960.31 | 5423840.00 | 404850.52 | 5423840.00 | 90.0 | 3.9 | 291.8 | 0.0 | | |
| 100760 | Trav | 400960.31 | 5423865.00 | 404850.52 | 5423865.00 | 90.0 | 3.9 | 295.7 | 0.0 | | |
| 100770 | Trav | 400960.31 | 5423890.00 | 404850.52 | 5423890.00 | 90.0 | 3.9 | 299.5 | 0.0 | | |
| 100780 | Trav | 400960.31 | 5423915.00 | 404850.52 | 5423915.00 | 90.0 | 3.9 | 303.4 | 0.0 | | |
| 100790 | Trav | 400960.31 | 5423940.00 | 404850.52 | 5423940.00 | 90.0 | 3.9 | 307.3 | 0.0 | | |
| 100800 | Trav | 400960.31 | 5423965.00 | 404850.52 | 5423965.00 | 90.0 | 3.9 | 311.2 | 0.0 | | |
| 100810 | Trav | 400960.31 | 5423990.00 | 404850.52 | 5423990.00 | 90.0 | 3.9 | 315.1 | 0.0 | | |
| 100820 | Trav | 400960.31 | 5424015.00 | 404850.52 | 5424015.00 | 90.0 | 3.9 | 319.0 | 0.0 | | |
| 100830 | Trav | 400960.31 | 5424040.00 | 404850.52 | 5424040.00 | 90.0 | 3.9 | 322.9 | 0.0 | | |
| 100840 | Trav | 400960.31 | 5424065.00 | 404850.52 | 5424065.00 | 90.0 | 3.9 | 326.8 | 0.0 | | |
| 100850 | Trav | 400960.31 | 5424090.00 | 404850.52 | 5424090.00 | 90.0 | 3.9 | 330.7 | 0.0 | | |
| 100860 | Trav | 400960.31 | 5424115.00 | 404850.52 | 5424115.00 | 90.0 | 3.9 | 334.6 | 0.0 | | |
| 100870 | Trav | 400960.31 | 5424140.00 | 404850.52 | 5424140.00 | 90.0 | 3.9 | 338.4 | 0.0 | | |
| 100880 | Trav | 400960.31 | 5424165.00 | 404850.52 | 5424165.00 | 90.0 | 3.9 | 342.3 | 0.0 | | |
| 100890 | Trav | 400960.31 | 5424190.00 | 404850.52 | 5424190.00 | 90.0 | 3.9 | 346.2 | 0.0 | | |
| 100900 | Trav | 400960.31 | 5424215.00 | 404850.52 | 5424215.00 | 90.0 | 3.9 | 350.1 | 0.0 | | |
| 100910 | Trav | 400960.31 | 5424240.00 | 404850.52 | 5424240.00 | 90.0 | 3.9 | 354.0 | 0.0 | | |
| 100920 | Trav | 400960.31 | 5424265.00 | 404850.52 | 5424265.00 | 90.0 | 3.9 | 357.9 | 0.0 | | |
| 100930 | Trav | 400960.31 | 5424290.00 | 404850.52 | 5424290.00 | 90.0 | 3.9 | 361.8 | 0.0 | | |
| 100940 | Trav | 400960.31 | 5424315.00 | 404850.52 | 5424315.00 | 90.0 | 3.9 | 365.7 | 0.0 | | |
| 100950 | Trav | 400960.31 | 5424340.00 | 404850.52 | 5424340.00 | 90.0 | 3.9 | 369.6 | 0.0 | | |
| 100960 | Trav | 400960.31 | 5424365.00 | 404850.52 | 5424365.00 | 90.0 | 3.9 | 373.5 | 0.0 | | |
| 100970 | Trav | 400960.31 | 5424390.00 | 404850.52 | 5424390.00 | 90.0 | 3.9 | 377.4 | 0.0 | | |
| 100980 | Trav | 400960.31 | 5424415.00 | 404850.52 | 5424415.00 | 90.0 | 3.9 | 381.2 | 0.0 | | |
| 100990 | Trav | 400960.31 | 5424440.00 | 404850.51 | 5424440.00 | 90.0 | 3.9 | 385.1 | 0.0 | | |
| 101000 | Trav | 400960.31 | 5424465.00 | 404850.51 | 5424465.00 | 90.0 | 3.9 | 389.0 | 0.0 | | |
| 101010 | Trav | 400960.31 | 5424490.00 | 404850.51 | 5424490.00 | 90.0 | 3.9 | 392.9 | 0.0 | | |
| 101020 | Trav | 400960.31 | 5424515.00 | 404850.51 | 5424515.00 | 90.0 | 3.9 | 396.8 | 0.0 | | |
| 101030 | Trav | 400960.31 | 5424540.00 | 404850.51 | 5424540.00 | 90.0 | 3.9 | 400.7 | 0.0 | | |
| 101040 | Trav | 400960.31 | 5424565.00 | 404850.51 | 5424565.00 | 90.0 | 3.9 | 404.6 | 0.0 | | |
| 101050 | Trav | 400960.31 | 5424590.00 | 404850.51 | 5424590.00 | 90.0 | 3.9 | 408.5 | 0.0 | | |
| 101060 | Trav | 400960.31 | 5424615.00 | 404850.51 | 5424615.00 | 90.0 | 3.9 | 412.4 | 0.0 | | |
| 101070 | Trav | 400960.31 | 5424640.00 | 404850.51 | 5424640.00 | 90.0 | 3.9 | 416.3 | 0.0 | | |
| 101080 | Trav | 400960.31 | 5424665.00 | 404850.51 | 5424665.00 | 90.0 | 3.9 | 420.1 | 0.0 | | |
| 101090 | Trav | 400960.31 | 5424690.00 | 404850.51 | 5424690.00 | 90.0 | 3.9 | 424.0 | 0.0 | | |
| 101100 | Trav | 400960.31 | 5424715.00 | 404850.51 | 5424715.00 | 90.0 | 3.9 | 427.9 | 0.0 | | |
| 101110 | Trav | 400960.31 | 5424740.00 | 404850.51 | 5424740.00 | 90.0 | 3.9 | 431.8 | 0.0 | | |
| 101120 | Trav | 400960.31 | 5424765.00 | 404850.51 | 5424765.00 | 90.0 | 3.9 | 435.7 | 0.0 | | |
| 101130 | Trav | 400960.31 | 5424790.00 | 404850.51 | 5424790.00 | 90.0 | 3.9 | 439.6 | 0.0 | | |
| 101140 | Trav | 400960.31 | 5424815.00 | 404850.51 | 5424815.00 | 90.0 | 3.9 | 443.5 | 0.0 | | |
| 101150 | Trav | 400960.31 | 5424840.00 | 404850.51 | 5424840.00 | 90.0 | 3.9 | 447.4 | 0.0 | | |
| 101160 | Trav | 400960.31 | 5424865.00 | 404850.51 | 5424865.00 | 90.0 | 3.9 | 451.3 | 0.0 | | |
| 101170 | Trav | 400960.31 | 5424890.00 | 404850.51 | 5424890.00 | 90.0 | 3.9 | 455.2 | 0.0 | | |
| 101180 | Trav | 400960.31 | 5424915.00 | 404850.51 | 5424915.00 | 90.0 | 3.9 | 459.0 | 0.0 | | |
| 101190 | Trav | 400960.31 | 5424940.00 | 404850.51 | 5424940.00 | 90.0 | 3.9 | 462.9 | 0.0 | | |
| 101200 | Trav | 400960.31 | 5424965.00 | 404850.51 | 5424965.00 | 90.0 | 3.9 | 466.8 | 0.0 | | |
| 101210 | Trav | 400960.31 | 5424990.00 | 404850.51 | 5424990.00 | 90.0 | 3.9 | 470.7 | 0.0 | | |
| 101220 | Trav | 400960.31 | 5425015.00 | 404850.51 | 5425015.00 | 90.0 | 3.9 | 474.6 | 0.0 | | |
| 101230 | Trav | 400960.31 | 5425040.00 | 404850.51 | 5425040.00 | 90.0 | 3.9 | 478.5 | 0.0 | | |
| 101240 | Trav | 400960.31 | 5425065.00 | 404850.51 | 5425065.00 | 90.0 | 3.9 | 482.4 | 0.0 | | |
| 101250 | Trav | 400960.31 | 5425090.00 | 404850.51 | 5425090.00 | 90.0 | 3.9 | 486.3 | 0.0 | | |
| 101260 | Trav | 400960.31 | 5425115.00 | 404850.51 | 5425115.00 | 90.0 | 3.9 | 490.2 | 0.0 | | |
| 101270 | Trav | 400960.31 | 5425140.00 | 404850.51 | 5425140.00 | 90.0 | 3.9 | 494.1 | 0.0 | | |
| 101280 | Trav | 400960.31 | 5425165.00 | 404850.51 | 5425165.00 | 90.0 | 3.9 | 497.9 | 0.0 | | |
| 101290 | Trav | 400960.31 | 5425190.00 | 404850.51 | 5425190.00 | 90.0 | 3.9 | 501.8 | 0.0 | | |
| 101300 | Trav | 400960.31 | 5425215.00 | 404850.51 | 5425215.00 | 90.0 | 3.9 | 505.7 | 0.0 | | |



F14097_Rogetta (Cont)

| Line | Type | Easting | Northing | Easting | Northing | Direc | Length | Tv | Cumul | Ti | Cumul |
|--------|------|-----------|------------|-----------|------------|-------|--------|-------|-------|----|-------|
| 101310 | Trav | 400960.31 | 5425240.00 | 404850.51 | 5425240.00 | 90.0 | 3.9 | 509.6 | 0.0 | | |
| 101320 | Trav | 400960.31 | 5425265.00 | 404850.51 | 5425265.00 | 90.0 | 3.9 | 513.5 | 0.0 | | |
| 101330 | Trav | 400960.31 | 5425290.00 | 404850.51 | 5425290.00 | 90.0 | 3.9 | 517.4 | 0.0 | | |
| 101340 | Trav | 400960.31 | 5425315.00 | 404850.51 | 5425315.00 | 90.0 | 3.9 | 521.3 | 0.0 | | |
| 101350 | Trav | 400960.31 | 5425340.00 | 404850.50 | 5425340.00 | 90.0 | 3.9 | 525.2 | 0.0 | | |
| 101360 | Trav | 400960.31 | 5425365.00 | 404850.50 | 5425365.00 | 90.0 | 3.9 | 529.1 | 0.0 | | |
| 101370 | Trav | 400960.31 | 5425390.00 | 404850.50 | 5425390.00 | 90.0 | 3.9 | 533.0 | 0.0 | | |
| 101380 | Trav | 400960.31 | 5425415.00 | 404850.50 | 5425415.00 | 90.0 | 3.9 | 536.9 | 0.0 | | |
| 101390 | Trav | 400960.31 | 5425440.00 | 404850.50 | 5425440.00 | 90.0 | 3.9 | 540.7 | 0.0 | | |
| 101400 | Trav | 400960.31 | 5425465.00 | 404850.50 | 5425465.00 | 90.0 | 3.9 | 544.6 | 0.0 | | |
| 101410 | Trav | 400960.31 | 5425490.00 | 404850.50 | 5425490.00 | 90.0 | 3.9 | 548.5 | 0.0 | | |
| 101420 | Trav | 400960.31 | 5425515.00 | 404850.50 | 5425515.00 | 90.0 | 3.9 | 552.4 | 0.0 | | |
| 101430 | Trav | 400960.31 | 5425540.00 | 404850.50 | 5425540.00 | 90.0 | 3.9 | 556.3 | 0.0 | | |
| 101440 | Trav | 400960.31 | 5425565.00 | 404850.50 | 5425565.00 | 90.0 | 3.9 | 560.2 | 0.0 | | |
| 101450 | Trav | 400960.31 | 5425590.00 | 404850.50 | 5425590.00 | 90.0 | 3.9 | 564.1 | 0.0 | | |
| 101460 | Trav | 400960.31 | 5425615.00 | 404850.50 | 5425615.00 | 90.0 | 3.9 | 568.0 | 0.0 | | |
| 101470 | Trav | 400960.31 | 5425640.00 | 404850.50 | 5425640.00 | 90.0 | 3.9 | 571.9 | 0.0 | | |
| 101480 | Trav | 400960.31 | 5425665.00 | 404850.50 | 5425665.00 | 90.0 | 3.9 | 575.8 | 0.0 | | |
| 101490 | Trav | 400960.31 | 5425690.00 | 404850.50 | 5425690.00 | 90.0 | 3.9 | 579.6 | 0.0 | | |
| 101500 | Trav | 400960.31 | 5425715.00 | 404850.50 | 5425715.00 | 90.0 | 3.9 | 583.5 | 0.0 | | |
| 101510 | Trav | 400960.31 | 5425740.00 | 404850.50 | 5425740.00 | 90.0 | 3.9 | 587.4 | 0.0 | | |
| 101520 | Trav | 400960.31 | 5425765.00 | 404850.50 | 5425765.00 | 90.0 | 3.9 | 591.3 | 0.0 | | |
| 101530 | Trav | 400960.31 | 5425790.00 | 404850.50 | 5425790.00 | 90.0 | 3.9 | 595.2 | 0.0 | | |
| 101540 | Trav | 400960.31 | 5425815.00 | 404850.50 | 5425815.00 | 90.0 | 3.9 | 599.1 | 0.0 | | |
| 101550 | Trav | 400960.31 | 5425840.00 | 404850.50 | 5425840.00 | 90.0 | 3.9 | 603.0 | 0.0 | | |
| 101560 | Trav | 400960.31 | 5425865.00 | 404850.50 | 5425865.00 | 90.0 | 3.9 | 606.9 | 0.0 | | |
| 101570 | Trav | 400960.31 | 5425890.00 | 404850.50 | 5425890.00 | 90.0 | 3.9 | 610.8 | 0.0 | | |
| 101580 | Trav | 400960.32 | 5425915.00 | 404850.50 | 5425915.00 | 90.0 | 3.9 | 614.7 | 0.0 | | |
| 101590 | Trav | 400960.32 | 5425940.00 | 404850.50 | 5425940.00 | 90.0 | 3.9 | 618.5 | 0.0 | | |
| 101600 | Trav | 400960.32 | 5425965.00 | 404850.50 | 5425965.00 | 90.0 | 3.9 | 622.4 | 0.0 | | |
| 101610 | Trav | 400960.32 | 5425990.00 | 404850.50 | 5425990.00 | 90.0 | 3.9 | 626.3 | 0.0 | | |
| 101620 | Trav | 400960.32 | 5426015.00 | 404850.50 | 5426015.00 | 90.0 | 3.9 | 630.2 | 0.0 | | |
| 101630 | Trav | 400960.32 | 5426040.00 | 404850.50 | 5426040.00 | 90.0 | 3.9 | 634.1 | 0.0 | | |
| 101640 | Trav | 400960.32 | 5426065.00 | 404850.50 | 5426065.00 | 90.0 | 3.9 | 638.0 | 0.0 | | |
| 101650 | Trav | 400960.32 | 5426090.00 | 404850.50 | 5426090.00 | 90.0 | 3.9 | 641.9 | 0.0 | | |
| 101660 | Trav | 400960.32 | 5426115.00 | 404850.50 | 5426115.00 | 90.0 | 3.9 | 645.8 | 0.0 | | |
| 101670 | Trav | 400960.32 | 5426140.00 | 404850.50 | 5426140.00 | 90.0 | 3.9 | 649.7 | 0.0 | | |
| 101680 | Trav | 400960.32 | 5426165.00 | 404850.50 | 5426165.00 | 90.0 | 3.9 | 653.6 | 0.0 | | |
| 101690 | Trav | 400960.32 | 5426190.00 | 404850.50 | 5426190.00 | 90.0 | 3.9 | 657.4 | 0.0 | | |
| 101700 | Trav | 400960.32 | 5426215.00 | 404850.50 | 5426215.00 | 90.0 | 3.9 | 661.3 | 0.0 | | |
| 101710 | Trav | 400960.32 | 5426240.00 | 404850.49 | 5426240.00 | 90.0 | 3.9 | 665.2 | 0.0 | | |
| 101720 | Trav | 400960.32 | 5426265.00 | 404850.49 | 5426265.00 | 90.0 | 3.9 | 669.1 | 0.0 | | |
| 101730 | Trav | 400960.32 | 5426290.00 | 404850.49 | 5426290.00 | 90.0 | 3.9 | 673.0 | 0.0 | | |
| 101740 | Trav | 400960.32 | 5426315.00 | 404850.49 | 5426315.00 | 90.0 | 3.9 | 676.9 | 0.0 | | |
| 101750 | Trav | 400960.32 | 5426340.00 | 404850.49 | 5426340.00 | 90.0 | 3.9 | 680.8 | 0.0 | | |
| 101760 | Trav | 400960.32 | 5426365.00 | 404850.49 | 5426365.00 | 90.0 | 3.9 | 684.7 | 0.0 | | |
| 101770 | Trav | 400960.32 | 5426390.00 | 404850.49 | 5426390.00 | 90.0 | 3.9 | 688.6 | 0.0 | | |
| 101780 | Trav | 400960.32 | 5426415.00 | 404850.49 | 5426415.00 | 90.0 | 3.9 | 692.5 | 0.0 | | |
| 101790 | Trav | 400960.32 | 5426440.00 | 404850.49 | 5426440.00 | 90.0 | 3.9 | 696.3 | 0.0 | | |
| 101800 | Trav | 400960.32 | 5426465.00 | 404850.49 | 5426465.00 | 90.0 | 3.9 | 700.2 | 0.0 | | |
| 101810 | Trav | 400960.32 | 5426490.00 | 404850.49 | 5426490.00 | 90.0 | 3.9 | 704.1 | 0.0 | | |
| 101820 | Trav | 400960.32 | 5426515.00 | 404850.49 | 5426515.00 | 90.0 | 3.9 | 708.0 | 0.0 | | |
| 101830 | Trav | 400960.32 | 5426540.00 | 404850.49 | 5426540.00 | 90.0 | 3.9 | 711.9 | 0.0 | | |
| 101840 | Trav | 400960.32 | 5426565.00 | 404850.49 | 5426565.00 | 90.0 | 3.9 | 715.8 | 0.0 | | |
| 101850 | Trav | 400960.32 | 5426590.00 | 404850.49 | 5426590.00 | 90.0 | 3.9 | 719.7 | 0.0 | | |
| 101860 | Trav | 400960.32 | 5426615.00 | 404850.49 | 5426615.00 | 90.0 | 3.9 | 723.6 | 0.0 | | |
| 101870 | Trav | 400960.32 | 5426640.00 | 404850.49 | 5426640.00 | 90.0 | 3.9 | 727.5 | 0.0 | | |
| 101880 | Trav | 400960.32 | 5426665.00 | 404850.49 | 5426665.00 | 90.0 | 3.9 | 731.4 | 0.0 | | |
| 101890 | Trav | 400960.32 | 5426690.00 | 404850.49 | 5426690.00 | 90.0 | 3.9 | 735.2 | 0.0 | | |
| 101900 | Trav | 400960.32 | 5426715.00 | 404850.49 | 5426715.00 | 90.0 | 3.9 | 739.1 | 0.0 | | |
| 101910 | Trav | 400960.32 | 5426740.00 | 404850.49 | 5426740.00 | 90.0 | 3.9 | 743.0 | 0.0 | | |
| 101920 | Trav | 400960.32 | 5426765.00 | 404850.49 | 5426765.00 | 90.0 | 3.9 | 746.9 | 0.0 | | |
| 101930 | Trav | 400960.32 | 5426790.00 | 404850.49 | 5426790.00 | 90.0 | 3.9 | 750.8 | 0.0 | | |
| 101940 | Trav | 400960.32 | 5426815.00 | 404850.49 | 5426815.00 | 90.0 | 3.9 | 754.7 | 0.0 | | |
| 101950 | Trav | 400960.32 | 5426840.00 | 404850.49 | 5426840.00 | 90.0 | 3.9 | 758.6 | 0.0 | | |



F14097_Rogetta (Cont)

| Line | Type | Easting | Northing | Easting | Northing | Direc | Length | Tv | Cumul | Ti | Cumul |
|--------|------|-----------|------------|-----------|------------|-------|--------|----|-------|----|-------|
| 101960 | Trav | 400960.32 | 5426865.00 | 404850.49 | 5426865.00 | 90.0 | 3.9 | | 762.5 | | 0.0 |
| 190010 | Tie | 401003.00 | 5426915.00 | 401003.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 5.0 |
| 190020 | Tie | 401273.00 | 5426915.00 | 401273.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 9.9 |
| 190030 | Tie | 401543.00 | 5426915.00 | 401538.00 | 5421940.00 | 180.1 | 5.0 | | 762.5 | | 14.9 |
| 190040 | Tie | 401813.00 | 5426915.00 | 401813.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 19.9 |
| 190050 | Tie | 402063.00 | 5426915.00 | 402063.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 24.9 |
| 190060 | Tie | 402313.00 | 5426915.00 | 402313.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 29.9 |
| 190070 | Tie | 402563.00 | 5426915.00 | 402563.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 34.8 |
| 190080 | Tie | 402813.00 | 5426915.00 | 402813.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 39.8 |
| 190090 | Tie | 403063.00 | 5426915.00 | 403063.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 44.8 |
| 190100 | Tie | 403313.00 | 5426915.00 | 403313.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 49.8 |
| 190110 | Tie | 403563.00 | 5426915.00 | 403563.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 54.7 |
| 190120 | Tie | 403813.00 | 5426915.00 | 403813.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 59.7 |
| 190130 | Tie | 404063.00 | 5426915.00 | 404063.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 64.7 |
| 190140 | Tie | 404313.00 | 5426915.00 | 404313.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 69.7 |
| 190150 | Tie | 404563.00 | 5426915.00 | 404563.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 74.6 |
| 190160 | Tie | 404813.00 | 5426915.00 | 404813.00 | 5421940.00 | 180.0 | 5.0 | | 762.5 | | 79.6 |



