

## Metadata

### LAND INFORMATION NZ

#### WAIKATO REGION – 2015 & 2017 LiDAR REPROCESSING Embankment 2

**AERIAL SURVEYS PROJECT Nº: FPFA1188**

### *Summary*

#### *Project*

An Airborne Laser Scanner survey was conducted over the Waikato waterway areas of interest totalling approximately 957 km<sup>2</sup>. The waterway areas are located in the Waikato Region of the North Island.

#### *Data*

The data was processed into various digital map data products. The products included for this dispatch contain:

- AOI
- Classified Point Cloud
- Gridded DEM
- Gridded DSM
- Hydro Breaklines
- Tile Layout

### *Project Report*

**Safety:** No safety Incidents were reported during the project.

**Acquisition:** Airborne Laser Scanner (ALS) data was acquired from a fixed wing aircraft on: 7 February 2017, 16 December 2017, 24 January 2019.

**Ground Support:** GPS base station data was provided by Global Surveys Ltd and LINZ base stations. The ground check points acquired by Sounds Surveying Ltd.

**Data Processing:** Reduction of the ALS data proceeded without any significant problems. Laser strikes were classified into ground and non-ground points using auto algorithms across the project area.

**Data Presentation:** The data provided on this volume has been supplied in accordance with a specification agreed with Waikato Regional Council.

#### **Project Contacts:**

LINZ Senior Technical Leader Geospatial: Bjorn Johns (Ph. (04) 460 0580)

Aerial Surveys Business Development Manager: Steve Smith (Ph. (09) 415 3101)

## *Data Acquisition*

The project area is that shown in the shapefile

'LiDARMetadataWaikatoRegionReprocessedEmbankment2Fpfa1188\_2015-2017.shp' that accompanies the dataset. A map showing this area of interest is included in Appendix A.

LiDAR survey was collected using Aerial Surveys Optech Orion H300 LiDAR system.

### Survey Specification:

#### 2017 Regional Survey

- Scanner: Optech Orion H300
- Flying Height: 1100 m AMGL
- Scan Angle:  $\pm 30.0$  degrees
- Scan Frequency: 62.0 Hz
- Pulse Rate: 200 kHz
- Swath Overlap: 35%
- Points Per M<sup>2</sup>: 4.23

Sounds Surveying Ltd field surveyed check sites that were used to verify the accuracy of the processed ground dataset.

## *Data Processing*

The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSPac software.

The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSPac software.

Benchmarks: GSWI for **Sortie 16 December 2017**

GSTK for **Sortie 7 December 2017**

#### Base Station Positions:

-37 15 4.53151 S 174 43 45.17073 E 50.1167 Ell Height

-37 24 39.87875 S 175 08 43.44277 E 54.466 Ell Height

Antenna Height:

0.000 Phase Center

0.000 Phase Center

#### Base Station: PP-RTX for Sortie 24 January 2019

The POS data was combined with the LiDAR range files and used to generate LiDAR point clouds in NZTM and ellipsoidal heights. This process was undertaken using Optech LMS LiDAR processing software. The data was checked for completeness of coverage. The relative fit of data in the overlap between strips was also checked.

The height accuracy of the ground classified LiDAR points was checked using open land-cover survey check site data collected by Sounds Surveying Ltd. This was done by calculating height differences statistics between a TIN of the LiDAR ground points and the checkpoints. The standard deviation statistic is 0.049 m; a RMS of 0.049 m and the average difference is -0.03 m. LiDAR is relative to the control check points.

| StDev_DZ | Mean_DZ | RMSE_DZ | CI95_DZ |
|----------|---------|---------|---------|
| 0.049    | -0.002  | 0.049   | 0.096   |

The positional accuracy of the LiDAR data has been checked by overlaying Sounds Surveying Ltd surveyed data over the LiDAR data displayed coded by intensity. The data was found to fit well in position.

The point cloud data was then classified with TerraSolid LiDAR processing software into ground and above ground returns using automated routines tailored to the project landcover and terrain.

### *Product Deliverables*

All product deliverables supplied in terms of NZTM map projection and NZVD2016 vertical datum. The data was converted from NZGD2000 ellipsoidal heights into the local height system using the LINZ NZGeoid16 separation and offset model.

The following details the folder contents:

|                         |   |
|-------------------------|---|
| AOI:                    | Extent is the limit of the project area<br>Extent data is supplied in SHP format and DXF  |
| Classified Point Cloud: | Contains the LiDAR point cloud points that have been classified as ground and above ground returns<br>This dataset is supplied in ASPRS LASv1.2 and ASCII XYZI format |
| Gridded DEM:            | With hydro flattening. Contains the gridded ground surface (1 m separation grid)<br>This dataset is supplied in ARC_ASCII grid format                                 |
| Gridded DSM:            | With no hydro flattening. Contains the gridded 1 <sup>st</sup> return (1 m separation grid)<br>This dataset is supplied in ARC_ASCII grid format                      |
| Breaklines:             | Contains DEM hydro flattening breaklines<br>This dataset is supplied in SHP format and DXF  |
| Tile Layout             | Tiles is the tile layout for the project area<br>Tile size 1:1000 sheet layout (480 x 770 m)<br>Tile data is supplied in SHP format and DXF                           |

| Surface_Type      | Classification | Point_Class  |
|-------------------|----------------|--------------|
| BareEarth         | 2              | Ground       |
| Above_Ground_Data | 14             | Above_Ground |

All digital data supplied on a memory stick. Data couriered to Land Information NZ on: 5 July 2019.

If you have requirements for the data in other file formats, map projections please contact Aerial Surveys.

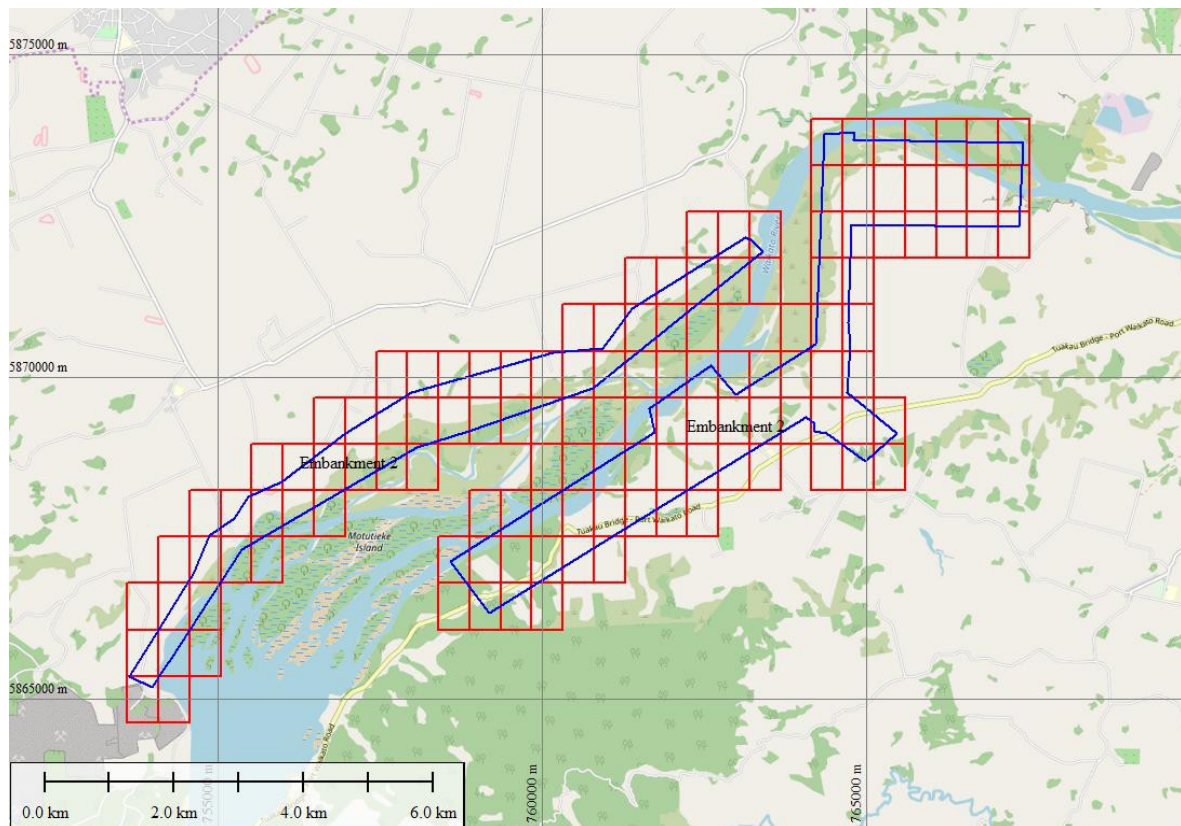
### *License/Copyright*

The project has been supplied on the basis of a shared ownership structure in the end products delivered under this programme (LiDAR products) which provides Land Information NZ with no restrictions in the use of these products. All raw data (raw LiDAR data, ground control, GNSS & IMU data) remain the sole property of Aerial Surveys, consistent with our standard terms of engagement.

### *Appendix A: Project Area*

The tile layout is shown in red.

The project extent area is shown in blue.



## Appendix B: File Listing

FreeCommander - Contents of folder:

H:\ProjectDATA\WaikatoRegion2015\_2017LiDAR\_ReprocessingFpfa1188\OUTPUT\LowerEmbankment2 5/07/2019 12:22 PM

| Date | Time | Attrib | Bytes | File name |
|------|------|--------|-------|-----------|
|------|------|--------|-------|-----------|

H:\ProjectDATA\WaikatoRegion2015\_2017LiDAR\_ReprocessingFpfa1188\OUTPUT\LowerEmbankment2

|                       |        |                   |  |  |
|-----------------------|--------|-------------------|--|--|
| 28/06/2019 2:08:41 PM | -D---- | AOI               |  |  |
| 28/06/2019 1:53:24 PM | -D---- | ClassifiedLAS     |  |  |
| 28/06/2019 1:53:58 PM | -D---- | Gridded_DEM       |  |  |
| 28/06/2019 1:54:14 PM | -D---- | Gridded_DSM       |  |  |
| 28/06/2019 1:53:38 PM | -D---- | Hydro_Enforcement |  |  |
| 28/06/2019 2:38:54 PM | -D---- | TileLayout        |  |  |
| 28/06/2019 4:26:10 PM | A----- | 4,829,642         | WaikatoRegion_2015-2017_LiDAR-Reprocessing_MetadataEmbankment2.pdf |  |

4,829,642 1 Files

H:\ProjectDATA\WaikatoRegion2015\_2017LiDAR\_ReprocessingFpfa1188\OUTPUT\LowerEmbankment2\AOI

|                       |        |       |  |  |
|-----------------------|--------|-------|--|--|
| 3/05/2019 11:20:24 AM | A----- | 5     |  |  |
| 3/05/2019 11:20:24 AM | A----- | 812   |  |  |
| 3/05/2019 11:20:24 AM | A----- | 399   |  |  |
| 3/05/2019 11:20:24 AM | A----- | 1,028 |  |  |
| 3/05/2019 11:20:24 AM | A----- | 116   |  |  |

2,360 5 Files

H:\ProjectDATA\WaikatoRegion2015\_2017LiDAR\_ReprocessingFpfa1188\OUTPUT\LowerEmbankment2\ClassifiedLAS

|                       |        |      |
|-----------------------|--------|------|
| 5/07/2019 11:49:59 AM | -D---- | LAS  |
| 28/06/2019 2:08:17 PM | -D---- | XYZI |

0 0 Files

H:\ProjectDATA\WaikatoRegion2015\_2017LiDAR\_ReprocessingFpfa1188\OUTPUT\LowerEmbankment2\ClassifiedLAS\LAS

|                       |        |             |                             |
|-----------------------|--------|-------------|-----------------------------|
| 28/06/2019 2:06:25 PM | A----- | 119,563     | CL2_BC31_2017_1000_1047.las |
| 28/06/2019 2:06:25 PM | A----- | 1,599,671   | CL2_BC31_2017_1000_1050.las |
| 28/06/2019 2:06:25 PM | A----- | 8,179       | CL2_BC31_2017_1000_1347.las |
| 28/06/2019 2:06:26 PM | A----- | 7,662,315   | CL2_BC31_2019_1000_0850.las |
| 28/06/2019 2:06:25 PM | A----- | 2,198,787   | CL2_BC31_2019_1000_0948.las |
| 28/06/2019 2:06:28 PM | A----- | 37,856,283  | CL2_BC31_2019_1000_0949.las |
| 28/06/2019 2:06:29 PM | A----- | 54,710,939  | CL2_BC31_2019_1000_0950.las |
| 28/06/2019 2:06:28 PM | A----- | 47,045,715  | CL2_BC31_2019_1000_1048.las |
| 28/06/2019 2:06:27 PM | A----- | 28,738,727  | CL2_BC31_2019_1000_1049.las |
| 28/06/2019 2:06:25 PM | A----- | 2,075       | CL2_BC31_2019_1000_1146.las |
| 28/06/2019 2:06:27 PM | A----- | 23,770,659  | CL2_BC31_2019_1000_1147.las |
| 28/06/2019 2:06:27 PM | A----- | 16,369,251  | CL2_BC31_2019_1000_1148.las |
| 28/06/2019 2:06:28 PM | A----- | 24,624,323  | CL2_BC31_2019_1000_1246.las |
| 28/06/2019 2:06:28 PM | A----- | 12,039,583  | CL2_BC31_2019_1000_1247.las |
| 28/06/2019 2:06:28 PM | A----- | 1,011       | CL2_BC31_2019_1000_1248.las |
| 28/06/2019 2:06:28 PM | A----- | 6,848,467   | CL2_BC31_2019_1000_1346.las |
| 28/06/2019 2:06:31 PM | A----- | 46,011,031  | CL2_BC32_2017_1000_0118.las |
| 28/06/2019 2:06:33 PM | A----- | 66,685,251  | CL2_BC32_2017_1000_0119.las |
| 28/06/2019 2:06:31 PM | A----- | 41,090,507  | CL2_BC32_2017_1000_0120.las |
| 28/06/2019 2:06:31 PM | A----- | 39,058,883  | CL2_BC32_2017_1000_0121.las |
| 28/06/2019 2:06:31 PM | A----- | 32,915,851  | CL2_BC32_2017_1000_0122.las |
| 28/06/2019 2:06:32 PM | A----- | 46,709,463  | CL2_BC32_2017_1000_0123.las |
| 28/06/2019 2:06:32 PM | A----- | 41,962,147  | CL2_BC32_2017_1000_0124.las |
| 28/06/2019 2:06:42 PM | A----- | 140,606,455 | CL2_BC32_2017_1000_0218.las |
| 28/06/2019 2:06:38 PM | A----- | 88,480,171  | CL2_BC32_2017_1000_0219.las |
| 28/06/2019 2:06:35 PM | A----- | 52,755,923  | CL2_BC32_2017_1000_0220.las |



|                              |             |                             |   |               |                              |
|------------------------------|-------------|-----------------------------|---|---------------|------------------------------|
| 28/06/2019 2:06:35 PM A----- | 48,521,735  | CL2_BC32_2017_1000_0221.las | 28/06/2019 2:07:16 PM A-----  | 55,009,139    | CL2_BC32_2019_1000_0610.las  |
| 28/06/2019 2:06:37 PM A----- | 58,516,027  | CL2_BC32_2017_1000_0222.las | 28/06/2019 2:07:16 PM A-----  | 38,365,855    | CL2_BC32_2019_1000_0611.las  |
| 28/06/2019 2:06:36 PM A----- | 47,582,615  | CL2_BC32_2017_1000_0223.las | 28/06/2019 2:07:14 PM A-----  | 6,056,571     | CL2_BC32_2019_1000_0612.las  |
| 28/06/2019 2:06:37 PM A----- | 46,523,767  | CL2_BC32_2017_1000_0224.las | 28/06/2019 2:07:18 PM A-----  | 51,143,515    | CL2_BC32_2019_1000_0706.las  |
| 28/06/2019 2:06:36 PM A----- | 308,955     | CL2_BC32_2017_1000_0314.las | 28/06/2019 3:13:34 PM A-----  | 45,123,651    | CL2_BC32_2019_1000_0707.las  |
| 28/06/2019 2:06:37 PM A----- | 17,353,759  | CL2_BC32_2017_1000_0315.las | 28/06/2019 2:07:18 PM A-----  | 36,277,643    | CL2_BC32_2019_1000_0708.las  |
| 28/06/2019 2:06:42 PM A----- | 80,187,243  | CL2_BC32_2017_1000_0318.las | 28/06/2019 2:07:17 PM A-----  | 10,693,595    | CL2_BC32_2019_1000_0709.las  |
| 28/06/2019 2:06:38 PM A----- | 24,242,039  | CL2_BC32_2017_1000_0319.las | 28/06/2019 2:07:18 PM A-----  | 25,254,715    | CL2_BC32_2019_1000_0801.las  |
| 28/06/2019 2:06:38 PM A----- | 11,769,747  | CL2_BC32_2017_1000_0320.las | 28/06/2019 2:07:20 PM A-----  | 53,188,999    | CL2_BC32_2019_1000_0803.las  |
| 28/06/2019 2:06:38 PM A----- | 12,437,519  | CL2_BC32_2017_1000_0321.las | 28/06/2019 2:07:19 PM A-----  | 33,404,171    | CL2_BC32_2019_1000_0804.las  |
| 28/06/2019 2:06:38 PM A----- | 10,291,963  | CL2_BC32_2017_1000_0322.las | 28/06/2019 2:07:18 PM A-----  | 8,116,699     | CL2_BC32_2019_1000_0805.las  |
| 28/06/2019 2:06:39 PM A----- | 9,614,867   | CL2_BC32_2017_1000_0323.las | 28/06/2019 2:07:18 PM A-----  | 5,681,651     | CL2_BC32_2019_1000_0902.las  |
| 28/06/2019 2:06:39 PM A----- | 8,838,819   | CL2_BC32_2017_1000_0324.las |   |               |                              |
| 28/06/2019 2:06:38 PM A----- | 2,818,315   | CL2_BC32_2017_1000_0412.las |   |               |                              |
| 28/06/2019 2:06:44 PM A----- | 65,410,551  | CL2_BC32_2017_1000_0418.las |   | 4,150,201,083 | 125 Files                    |
| 28/06/2019 2:06:39 PM A----- | 9,761,615   | CL2_BC32_2017_1000_0419.las |   |               |                              |
| 28/06/2019 2:06:39 PM A----- | 983,363     | CL2_BC32_2017_1000_0510.las | H:\ProjectDATA\WaikatoRegion2015_2017LiDAR_Reprocessing\Fpfa1188\OUTP |               |                              |
| 28/06/2019 2:06:39 PM A----- | 1,738,887   | CL2_BC32_2017_1000_0517.las | UT\LowerEmbankment2\ClassifiedLAS\XYZI                                |               |                              |
| 28/06/2019 2:06:47 PM A----- | 97,705,583  | CL2_BC32_2017_1000_0518.las | 20/06/2019 7:43:26 PM A-----  | 153,666       | CL2_BC31_2017_1000_1047.xyzi |
| 28/06/2019 2:06:40 PM A----- | 14,790,695  | CL2_BC32_2017_1000_0519.las | 20/06/2019 7:43:26 PM A-----  | 2,022,961     |                              |
| 28/06/2019 2:06:39 PM A----- | 115,335     | CL2_BC32_2017_1000_0604.las | CL2_BC31_2017_1000_1050.xyzi  |               |                              |
| 28/06/2019 2:06:40 PM A----- | 8,022,787   | CL2_BC32_2017_1000_0605.las | 20/06/2019 7:43:26 PM A-----  | 10,086        | CL2_BC31_2017_1000_1347.xyzi |
| 28/06/2019 2:06:42 PM A----- | 25,501,675  | CL2_BC32_2017_1000_0606.las | 20/06/2019 7:43:27 PM A-----  | 9,805,174     |                              |
| 28/06/2019 2:06:43 PM A----- | 26,554,083  | CL2_BC32_2017_1000_0607.las | CL2_BC31_2019_1000_0850.xyzi  |               |                              |
| 28/06/2019 2:06:41 PM A----- | 64,123      | CL2_BC32_2017_1000_0613.las | 20/06/2019 7:43:27 PM A-----  | 2,827,165     |                              |
| 28/06/2019 2:06:43 PM A----- | 28,169,823  | CL2_BC32_2017_1000_0614.las | CL2_BC31_2019_1000_0948.xyzi  |               |                              |
| 28/06/2019 2:06:44 PM A----- | 24,134,799  | CL2_BC32_2017_1000_0615.las | 20/06/2019 7:43:32 PM A-----  | 48,543,224    |                              |
| 28/06/2019 2:06:47 PM A----- | 58,348,867  | CL2_BC32_2017_1000_0616.las | CL2_BC31_2019_1000_0949.xyzi  |               |                              |
| 28/06/2019 2:06:50 PM A----- | 99,754,007  | CL2_BC32_2017_1000_0617.las | 20/06/2019 7:43:40 PM A-----  | 69,907,001    |                              |
| 28/06/2019 2:06:53 PM A----- | 122,257,103 | CL2_BC32_2017_1000_0618.las | CL2_BC31_2019_1000_0950.xyzi  |               |                              |
| 28/06/2019 2:06:45 PM A----- | 17,138,663  | CL2_BC32_2017_1000_0619.las | 20/06/2019 7:43:46 PM A-----  | 60,343,578    |                              |
| 28/06/2019 2:06:44 PM A----- | 2,109,915   | CL2_BC32_2017_1000_0702.las | CL2_BC31_2019_1000_1048.xyzi  |               |                              |
| 28/06/2019 2:06:46 PM A----- | 20,879,575  | CL2_BC32_2017_1000_0703.las | 20/06/2019 7:43:49 PM A-----  | 36,487,591    |                              |
| 28/06/2019 2:06:48 PM A----- | 42,981,291  | CL2_BC32_2017_1000_0704.las | CL2_BC31_2019_1000_1049.xyzi  |               |                              |
| 28/06/2019 2:06:51 PM A----- | 73,053,319  | CL2_BC32_2017_1000_0705.las | 20/06/2019 7:43:49 PM A-----  | 2,376         | CL2_BC31_2019_1000_1146.xyzi |
| 28/06/2019 2:06:46 PM A----- | 54,519      | CL2_BC32_2017_1000_0710.las | 20/06/2019 7:43:53 PM A-----  | 30,411,772    |                              |
| 28/06/2019 2:06:48 PM A----- | 9,405,791   | CL2_BC32_2017_1000_0712.las | CL2_BC31_2019_1000_1147.xyzi  |               |                              |
| 28/06/2019 2:06:51 PM A----- | 45,491,015  | CL2_BC32_2017_1000_0713.las | 20/06/2019 7:43:55 PM A-----  | 20,794,486    |                              |
| 28/06/2019 2:06:52 PM A----- | 55,815,679  | CL2_BC32_2017_1000_0714.las | CL2_BC31_2019_1000_1148.xyzi  |               |                              |
| 28/06/2019 2:06:55 PM A----- | 81,091,363  | CL2_BC32_2017_1000_0715.las | 20/06/2019 7:43:58 PM A-----  | 31,527,873    |                              |
| 28/06/2019 2:06:54 PM A----- | 68,889,495  | CL2_BC32_2017_1000_0716.las | CL2_BC31_2019_1000_1246.xyzi  |               |                              |
| 28/06/2019 2:06:57 PM A----- | 69,125,227  | CL2_BC32_2017_1000_0717.las | 20/06/2019 7:44:00 PM A-----  | 15,310,246    |                              |
| 28/06/2019 2:07:00 PM A----- | 93,536,215  | CL2_BC32_2017_1000_0718.las | CL2_BC31_2019_1000_1247.xyzi  |               |                              |
| 28/06/2019 2:06:57 PM A----- | 53,817,935  | CL2_BC32_2017_1000_0719.las | 20/06/2019 7:44:00 PM A-----  | 968           | CL2_BC31_2019_1000_1248.xyzi |
| 28/06/2019 2:06:53 PM A----- | 14,295,907  | CL2_BC32_2017_1000_0720.las | 20/06/2019 7:44:01 PM A-----  | 8,784,432     |                              |
| 28/06/2019 2:06:57 PM A----- | 44,826,379  | CL2_BC32_2017_1000_0802.las | CL2_BC31_2019_1000_1346.xyzi  |               |                              |
| 28/06/2019 2:06:54 PM A----- | 2,607       | CL2_BC32_2017_1000_0809.las | 20/06/2019 7:44:07 PM A-----  | 58,387,980    |                              |
| 28/06/2019 2:06:56 PM A----- | 16,302,471  | CL2_BC32_2017_1000_0810.las | CL2_BC32_2017_1000_0118.xyzi  |               |                              |
| 28/06/2019 2:06:57 PM A----- | 30,295,359  | CL2_BC32_2017_1000_0811.las | 20/06/2019 7:44:16 PM A-----  | 84,556,941    |                              |
| 28/06/2019 2:07:02 PM A----- | 81,406,587  | CL2_BC32_2017_1000_0812.las | CL2_BC32_2017_1000_0119.xyzi  |               |                              |
| 28/06/2019 2:07:01 PM A----- | 58,627,551  | CL2_BC32_2017_1000_0813.las | 20/06/2019 7:44:22 PM A-----  | 52,266,573    |                              |
| 28/06/2019 2:07:00 PM A----- | 41,214,631  | CL2_BC32_2017_1000_0814.las | CL2_BC32_2017_1000_0120.xyzi  |               |                              |
| 28/06/2019 2:07:00 PM A----- | 24,220,199  | CL2_BC32_2017_1000_0815.las | 20/06/2019 7:44:27 PM A-----  | 49,700,184    |                              |
| 28/06/2019 2:06:58 PM A----- | 1,727,687   | CL2_BC32_2017_1000_0816.las | CL2_BC32_2017_1000_0121.xyzi  |               |                              |
| 28/06/2019 2:06:58 PM A----- | 38,251      | CL2_BC32_2017_1000_0818.las | 20/06/2019 7:44:32 PM A-----  | 41,846,150    |                              |
| 28/06/2019 2:07:00 PM A----- | 15,793,571  | CL2_BC32_2017_1000_0819.las | CL2_BC32_2017_1000_0122.xyzi  |               |                              |
| 28/06/2019 2:06:58 PM A----- | 1,854,331   | CL2_BC32_2017_1000_0820.las | 20/06/2019 7:44:39 PM A-----  | 59,354,964    |                              |
| 28/06/2019 2:07:00 PM A----- | 22,758,543  | CL2_BC32_2017_1000_0901.las | CL2_BC32_2017_1000_0123.xyzi  |               |                              |
| 28/06/2019 2:07:00 PM A----- | 600,743     | CL2_BC32_2017_1000_0907.las | 20/06/2019 7:44:44 PM A-----  | 53,437,084    |                              |
| 28/06/2019 2:07:00 PM A----- | 5,908,927   | CL2_BC32_2017_1000_0908.las | CL2_BC32_2017_1000_0124.xyzi  |               |                              |
| 28/06/2019 2:07:04 PM A----- | 49,665,143  | CL2_BC32_2017_1000_0909.las | 20/06/2019 7:45:03 PM A-----  | 178,862,803   |                              |
| 28/06/2019 2:07:03 PM A----- | 44,168,631  | CL2_BC32_2017_1000_0910.las | CL2_BC32_2017_1000_0218.xyzi  |               |                              |
| 28/06/2019 2:07:04 PM A----- | 47,925,979  | CL2_BC32_2017_1000_0911.las | 20/06/2019 7:45:15 PM A-----  | 113,169,924   |                              |
| 28/06/2019 2:07:03 PM A----- | 31,861,903  | CL2_BC32_2017_1000_0912.las | CL2_BC32_2017_1000_0219.xyzi  |               |                              |
| 28/06/2019 2:07:02 PM A----- | 9,295,247   | CL2_BC32_2017_1000_0913.las | 20/06/2019 7:45:22 PM A-----  | 67,698,321    |                              |
| 28/06/2019 2:07:01 PM A----- | 2,971       | CL2_BC32_2017_1000_0914.las | CL2_BC32_2017_1000_0220.xyzi  |               |                              |
| 28/06/2019 2:07:03 PM A----- | 25,499,351  | CL2_BC32_2017_1000_1006.las | 20/06/2019 7:45:29 PM A-----  | 62,270,513    |                              |
| 28/06/2019 2:07:07 PM A----- | 59,695,555  | CL2_BC32_2017_1000_1007.las | CL2_BC32_2017_1000_0221.xyzi  |               |                              |
| 28/06/2019 2:07:13 PM A----- | 127,736,339 | CL2_BC32_2017_1000_1008.las | 20/06/2019 7:45:37 PM A-----  | 75,139,482    |                              |
| 28/06/2019 2:07:11 PM A----- | 90,574,207  | CL2_BC32_2017_1000_1009.las | CL2_BC32_2017_1000_0222.xyzi  |               |                              |
| 28/06/2019 2:07:06 PM A----- | 23,315,127  | CL2_BC32_2017_1000_1010.las | 20/06/2019 7:45:44 PM A-----  | 60,985,618    |                              |
| 28/06/2019 2:07:04 PM A----- | 4,084,279   | CL2_BC32_2017_1000_1011.las | CL2_BC32_2017_1000_0223.xyzi  |               |                              |
| 28/06/2019 2:07:04 PM A----- | 895,639     | CL2_BC32_2017_1000_1106.las | 20/06/2019 7:45:50 PM A-----  | 59,688,756    |                              |
| 28/06/2019 2:07:08 PM A----- | 41,525,683  | CL2_BC32_2017_1000_1107.las | CL2_BC32_2017_1000_0224.xyzi  |               |                              |
| 28/06/2019 2:07:06 PM A----- | 13,816,575  | CL2_BC32_2017_1000_1108.las | 20/06/2019 7:45:52 PM A-----  | 400,150       | CL2_BC32_2017_1000_0314.xyzi |
| 28/06/2019 2:07:04 PM A----- | 186,791     | CL2_BC32_2017_1000_1109.las | 20/06/2019 7:45:52 PM A-----  | 22,127,338    |                              |
| 28/06/2019 2:07:06 PM A----- | 9,457,787   | CL2_BC32_2019_1000_0316.las | CL2_BC32_2017_1000_0315.xyzi  |               |                              |
| 28/06/2019 2:07:09 PM A----- | 31,107,135  | CL2_BC32_2019_1000_0413.las | 20/06/2019 7:46:03 PM A-----  | 101,973,509   |                              |
| 28/06/2019 2:07:13 PM A----- | 67,137,367  | CL2_BC32_2019_1000_0414.las | CL2_BC32_2017_1000_0318.xyzi  |               |                              |
| 28/06/2019 2:07:10 PM A----- | 38,481,999  | CL2_BC32_2019_1000_0415.las | 20/06/2019 7:46:07 PM A-----  | 31,143,181    |                              |
| 28/06/2019 2:07:07 PM A----- | 189,031     | CL2_BC32_2019_1000_0416.las | CL2_BC32_2017_1000_0319.xyzi  |               |                              |
| 28/06/2019 2:07:10 PM A----- | 16,253,835  | CL2_BC32_2019_1000_0511.las | 20/06/2019 7:46:09 PM A-----  | 15,103,669    |                              |
| 28/06/2019 2:07:16 PM A----- | 79,562,927  | CL2_BC32_2019_1000_0512.las | CL2_BC32_2017_1000_0320.xyzi  |               |                              |
| 28/06/2019 2:07:15 PM A----- | 59,911,211  | CL2_BC32_2019_1000_0513.las | 20/06/2019 7:46:10 PM A-----  | 16,139,356    |                              |
| 28/06/2019 2:07:10 PM A----- | 3,922,439   | CL2_BC32_2019_1000_0514.las | CL2_BC32_2017_1000_0321.xyzi  |               |                              |
| 28/06/2019 2:07:14 PM A----- | 34,978,331  | CL2_BC32_2019_1000_0608.las | 20/06/2019 7:46:12 PM A-----  | 13,488,178    |                              |
| 28/06/2019 2:07:15 PM A----- | 55,177,755  | CL2_BC32_2019_1000_0609.las | CL2_BC32_2017_1000_0322.xyzi  |               |                              |

20/06/2019 7:46:13 PM A----- 12,655,239 CL2\_BC32\_2017\_1000\_0323.xyz  
 20/06/2019 7:46:14 PM A----- 11,675,913 CL2\_BC32\_2017\_1000\_0324.xyz  
 20/06/2019 7:46:15 PM A----- 3,623,122 CL2\_BC32\_2017\_1000\_0412.xyz  
 20/06/2019 7:46:24 PM A----- 83,062,297 CL2\_BC32\_2017\_1000\_0418.xyz  
 20/06/2019 7:46:25 PM A----- 12,532,010 CL2\_BC32\_2017\_1000\_0419.xyz  
 20/06/2019 7:46:25 PM A----- 1,264,010 CL2\_BC32\_2017\_1000\_0510.xyz  
 20/06/2019 7:46:25 PM A----- 2,194,464 CL2\_BC32\_2017\_1000\_0517.xyz  
 20/06/2019 7:46:38 PM A----- 124,306,318 CL2\_BC32\_2017\_1000\_0518.xyz  
 20/06/2019 7:46:40 PM A----- 19,001,978 CL2\_BC32\_2017\_1000\_0519.xyz  
 20/06/2019 7:46:40 PM A----- 147,946 CL2\_BC32\_2017\_1000\_0604.xyz  
 20/06/2019 7:46:41 PM A----- 10,401,004 CL2\_BC32\_2017\_1000\_0605.xyz  
 20/06/2019 7:46:44 PM A----- 32,802,990 CL2\_BC32\_2017\_1000\_0606.xyz  
 20/06/2019 7:46:48 PM A----- 34,099,463 CL2\_BC32\_2017\_1000\_0607.xyz  
 20/06/2019 7:46:48 PM A----- 80,464 CL2\_BC32\_2017\_1000\_0613.xyz  
 20/06/2019 7:46:51 PM A----- 36,048,542 CL2\_BC32\_2017\_1000\_0614.xyz  
 20/06/2019 7:46:55 PM A----- 31,327,208 CL2\_BC32\_2017\_1000\_0615.xyz  
 20/06/2019 7:47:02 PM A----- 74,147,702 CL2\_BC32\_2017\_1000\_0616.xyz  
 20/06/2019 7:47:15 PM A----- 127,136,495 CL2\_BC32\_2017\_1000\_0617.xyz  
 20/06/2019 7:47:31 PM A----- 156,861,910 CL2\_BC32\_2017\_1000\_0618.xyz  
 20/06/2019 7:47:33 PM A----- 22,012,537 CL2\_BC32\_2017\_1000\_0619.xyz  
 20/06/2019 7:47:33 PM A----- 2,708,291 CL2\_BC32\_2017\_1000\_0702.xyz  
 20/06/2019 7:47:36 PM A----- 26,816,738 CL2\_BC32\_2017\_1000\_0703.xyz  
 20/06/2019 7:47:41 PM A----- 54,783,404 CL2\_BC32\_2017\_1000\_0704.xyz  
 20/06/2019 7:47:51 PM A----- 92,740,249 CL2\_BC32\_2017\_1000\_0705.xyz  
 20/06/2019 7:47:51 PM A----- 69,108 CL2\_BC32\_2017\_1000\_0710.xyz  
 20/06/2019 7:47:51 PM A----- 0 CL2\_BC32\_2017\_1000\_0711.xyz  
 20/06/2019 7:47:52 PM A----- 12,133,927 CL2\_BC32\_2017\_1000\_0712.xyz  
 20/06/2019 7:47:58 PM A----- 58,634,200 CL2\_BC32\_2017\_1000\_0713.xyz  
 20/06/2019 7:48:05 PM A----- 71,590,703 CL2\_BC32\_2017\_1000\_0714.xyz  
 20/06/2019 7:48:16 PM A----- 104,110,786 CL2\_BC32\_2017\_1000\_0715.xyz  
 20/06/2019 7:48:25 PM A----- 89,699,812 CL2\_BC32\_2017\_1000\_0716.xyz  
 20/06/2019 7:48:34 PM A----- 89,556,431 CL2\_BC32\_2017\_1000\_0717.xyz  
 20/06/2019 7:48:47 PM A----- 120,844,955 CL2\_BC32\_2017\_1000\_0718.xyz  
 20/06/2019 7:48:54 PM A----- 69,329,098 CL2\_BC32\_2017\_1000\_0719.xyz  
 20/06/2019 7:48:56 PM A----- 18,435,882 CL2\_BC32\_2017\_1000\_0720.xyz  
 20/06/2019 7:49:01 PM A----- 57,400,279 CL2\_BC32\_2017\_1000\_0802.xyz  
 20/06/2019 7:49:01 PM A----- 2,983 CL2\_BC32\_2017\_1000\_0809.xyz  
 20/06/2019 7:49:03 PM A----- 20,485,994 CL2\_BC32\_2017\_1000\_0810.xyz  
 20/06/2019 7:49:07 PM A----- 38,372,387 CL2\_BC32\_2017\_1000\_0811.xyz  
 20/06/2019 7:49:18 PM A----- 104,470,198 CL2\_BC32\_2017\_1000\_0812.xyz  
 20/06/2019 7:49:26 PM A----- 77,183,772 CL2\_BC32\_2017\_1000\_0813.xyz  
 20/06/2019 7:49:31 PM A----- 53,606,075 CL2\_BC32\_2017\_1000\_0814.xyz  
 20/06/2019 7:49:34 PM A----- 31,252,860 CL2\_BC32\_2017\_1000\_0815.xyz  
 20/06/2019 7:49:35 PM A----- 2,281,110 CL2\_BC32\_2017\_1000\_0816.xyz  
 20/06/2019 7:49:35 PM A----- 50,246 CL2\_BC32\_2017\_1000\_0818.xyz  
 20/06/2019 7:49:37 PM A----- 20,523,559 CL2\_BC32\_2017\_1000\_0819.xyz  
 20/06/2019 7:49:37 PM A----- 2,433,739 CL2\_BC32\_2017\_1000\_0820.xyz  
 20/06/2019 7:49:40 PM A----- 29,047,739 CL2\_BC32\_2017\_1000\_0901.xyz  
 20/06/2019 7:49:40 PM A----- 755,696 CL2\_BC32\_2017\_1000\_0907.xyz  
 20/06/2019 7:49:41 PM A----- 7,450,949 CL2\_BC32\_2017\_1000\_0908.xyz  
 20/06/2019 7:49:47 PM A----- 62,803,026 CL2\_BC32\_2017\_1000\_0909.xyz  
 20/06/2019 7:49:53 PM A----- 56,609,618 CL2\_BC32\_2017\_1000\_0910.xyz  
 20/06/2019 7:49:59 PM A----- 61,585,286 CL2\_BC32\_2017\_1000\_0911.xyz  
 20/06/2019 7:50:04 PM A----- 41,548,881 CL2\_BC32\_2017\_1000\_0912.xyz  
 20/06/2019 7:50:05 PM A----- 12,272,997 CL2\_BC32\_2017\_1000\_0913.xyz  
 20/06/2019 7:50:05 PM A----- 3,626 CL2\_BC32\_2017\_1000\_0914.xyz  
 20/06/2019 7:50:08 PM A----- 32,296,289 CL2\_BC32\_2017\_1000\_1006.xyz  
 20/06/2019 7:50:16 PM A----- 75,912,232 CL2\_BC32\_2017\_1000\_1007.xyz  
 20/06/2019 7:50:33 PM A----- 161,239,434 CL2\_BC32\_2017\_1000\_1008.xyz  
 20/06/2019 7:50:45 PM A----- 115,283,335 CL2\_BC32\_2017\_1000\_1009.xyz  
 20/06/2019 7:50:48 PM A----- 30,608,269 CL2\_BC32\_2017\_1000\_1010.xyz  
 20/06/2019 7:50:48 PM A----- 5,281,177 CL2\_BC32\_2017\_1000\_1011.xyz  
 20/06/2019 7:50:48 PM A----- 1,130,665 CL2\_BC32\_2017\_1000\_1106.xyz  
 20/06/2019 7:50:54 PM A----- 53,051,141 CL2\_BC32\_2017\_1000\_1107.xyz  
 20/06/2019 7:50:56 PM A----- 17,971,820 CL2\_BC32\_2017\_1000\_1108.xyz  
 20/06/2019 7:50:56 PM A----- 246,333 CL2\_BC32\_2017\_1000\_1109.xyz  
 20/06/2019 7:50:57 PM A----- 12,065,401 CL2\_BC32\_2019\_1000\_0316.xyz  
 20/06/2019 7:51:01 PM A----- 39,630,108 CL2\_BC32\_2019\_1000\_0413.xyz  
 20/06/2019 7:51:10 PM A----- 85,143,058 CL2\_BC32\_2019\_1000\_0414.xyz  
 20/06/2019 7:51:15 PM A----- 48,968,538 CL2\_BC32\_2019\_1000\_0415.xyz  
 20/06/2019 7:51:15 PM A----- 238,292 CL2\_BC32\_2019\_1000\_0416.xyz  
 20/06/2019 7:51:18 PM A----- 20,796,871 CL2\_BC32\_2019\_1000\_0511.xyz  
 20/06/2019 7:51:28 PM A----- 100,868,721 CL2\_BC32\_2019\_1000\_0512.xyz  
 20/06/2019 7:51:36 PM A----- 75,190,191 CL2\_BC32\_2019\_1000\_0513.xyz  
 20/06/2019 7:51:37 PM A----- 4,950,243 CL2\_BC32\_2019\_1000\_0514.xyz  
 20/06/2019 7:51:41 PM A----- 44,917,099 CL2\_BC32\_2019\_1000\_0608.xyz  
 20/06/2019 7:51:48 PM A----- 70,250,803 CL2\_BC32\_2019\_1000\_0609.xyz  
 20/06/2019 7:51:56 PM A----- 70,094,453 CL2\_BC32\_2019\_1000\_0610.xyz  
 20/06/2019 7:52:01 PM A----- 48,548,543 CL2\_BC32\_2019\_1000\_0611.xyz  
 20/06/2019 9:15:51 PM A----- 7,710,103 CL2\_BC32\_2019\_1000\_0612.xyz  
 20/06/2019 7:52:13 PM A----- 65,112,310 CL2\_BC32\_2019\_1000\_0706.xyz  
 20/06/2019 7:52:19 PM A----- 56,984,816 CL2\_BC32\_2019\_1000\_0707.xyz  
 20/06/2019 7:52:24 PM A----- 45,803,699 CL2\_BC32\_2019\_1000\_0708.xyz  
 20/06/2019 7:52:26 PM A----- 13,494,055 CL2\_BC32\_2019\_1000\_0709.xyz  
 20/06/2019 7:52:29 PM A----- 32,419,122 CL2\_BC32\_2019\_1000\_0801.xyz  
 20/06/2019 7:52:36 PM A----- 67,476,669 CL2\_BC32\_2019\_1000\_0803.xyz  
 20/06/2019 7:52:41 PM A----- 42,115,598 CL2\_BC32\_2019\_1000\_0804.xyz

20/06/2019 7:52:42 PM A----- 10,219,825  
 CL2\_BC32\_2019\_1000\_0805.xyz  
 20/06/2019 7:52:43 PM A----- 7,161,325  
 CL2\_BC32\_2019\_1000\_0902.xyz

-----  
 5,304,830,027 126 Files

H:\ProjectDATA\WaikatoRegion2015\_2017LiDAR\_ReprocessingFpfa1188\OUTP  
 UT\LowerEmbankment2\Gridded\_DEM  
 25/06/2019 11:16:51 AM A----- 2,763,666  
 DEM\_BC31\_2017\_1000\_1047.asc  
 25/06/2019 11:16:50 AM A----- 2,746,431  
 DEM\_BC31\_2017\_1000\_1050.asc  
 25/06/2019 11:16:48 AM A----- 2,765,527  
 DEM\_BC31\_2017\_1000\_1347.asc  
 25/06/2019 11:16:47 AM A----- 2,712,914  
 DEM\_BC31\_2019\_1000\_0850.asc  
 25/06/2019 11:16:45 AM A----- 2,737,980  
 DEM\_BC31\_2019\_1000\_0948.asc  
 25/06/2019 11:16:44 AM A----- 2,414,583  
 DEM\_BC31\_2019\_1000\_0949.asc  
 25/06/2019 11:16:41 AM A----- 2,145,557  
 DEM\_BC31\_2019\_1000\_0950.asc  
 25/06/2019 11:16:39 AM A----- 2,283,143  
 DEM\_BC31\_2019\_1000\_1048.asc  
 25/06/2019 11:16:40 AM A----- 2,469,738  
 DEM\_BC31\_2019\_1000\_1049.asc  
 25/06/2019 11:16:37 AM A----- 2,765,603  
 DEM\_BC31\_2019\_1000\_1146.asc  
 25/06/2019 11:16:36 AM A----- 2,407,513  
 DEM\_BC31\_2019\_1000\_1147.asc  
 25/06/2019 11:16:34 AM A----- 2,476,631  
 DEM\_BC31\_2019\_1000\_1148.asc  
 25/06/2019 11:16:32 AM A----- 2,431,923  
 DEM\_BC31\_2019\_1000\_1246.asc  
 25/06/2019 11:16:32 AM A----- 2,504,548  
 DEM\_BC31\_2019\_1000\_1247.asc  
 25/06/2019 11:16:29 AM A----- 2,765,630  
 DEM\_BC31\_2019\_1000\_1248.asc  
 25/06/2019 11:16:29 AM A----- 2,700,100  
 DEM\_BC31\_2019\_1000\_1346.asc  
 25/06/2019 11:16:27 AM A----- 2,435,747  
 DEM\_BC32\_2017\_1000\_0118.asc  
 25/06/2019 11:16:26 AM A----- 2,329,022  
 DEM\_BC32\_2017\_1000\_0119.asc  
 25/06/2019 11:16:24 AM A----- 2,376,896  
 DEM\_BC32\_2017\_1000\_0120.asc  
 25/06/2019 11:16:24 AM A----- 2,388,556  
 DEM\_BC32\_2017\_1000\_0121.asc  
 25/06/2019 11:16:21 AM A----- 2,400,417  
 DEM\_BC32\_2017\_1000\_0122.asc  
 25/06/2019 11:16:21 AM A----- 2,405,695  
 DEM\_BC32\_2017\_1000\_0123.asc  
 25/06/2019 11:16:19 AM A----- 2,497,740  
 DEM\_BC32\_2017\_1000\_0124.asc  
 25/06/2019 11:16:16 AM A----- 2,268,709  
 DEM\_BC32\_2017\_1000\_0218.asc  
 25/06/2019 11:16:17 AM A----- 2,035,457  
 DEM\_BC32\_2017\_1000\_0219.asc  
 25/06/2019 11:16:13 AM A----- 2,036,129  
 DEM\_BC32\_2017\_1000\_0220.asc  
 25/06/2019 11:16:10 AM A----- 2,036,270  
 DEM\_BC32\_2017\_1000\_0221.asc  
 25/06/2019 11:16:08 AM A----- 2,036,037  
 DEM\_BC32\_2017\_1000\_0222.asc  
 25/06/2019 11:16:12 AM A----- 2,059,361  
 DEM\_BC32\_2017\_1000\_0223.asc  
 25/06/2019 11:16:06 AM A----- 2,300,744  
 DEM\_BC32\_2017\_1000\_0224.asc  
 25/06/2019 11:16:05 AM A----- 2,761,501  
 DEM\_BC32\_2017\_1000\_0314.asc  
 25/06/2019 11:16:03 AM A----- 2,561,246  
 DEM\_BC32\_2017\_1000\_0315.asc  
 25/06/2019 11:16:01 AM A----- 2,227,178  
 DEM\_BC32\_2017\_1000\_0318.asc  
 25/06/2019 11:16:01 AM A----- 2,436,929  
 DEM\_BC32\_2017\_1000\_0319.asc  
 25/06/2019 11:15:59 AM A----- 2,563,474  
 DEM\_BC32\_2017\_1000\_0320.asc  
 25/06/2019 11:15:58 AM A----- 2,591,059  
 DEM\_BC32\_2017\_1000\_0321.asc  
 25/06/2019 11:15:56 AM A----- 2,626,851  
 DEM\_BC32\_2017\_1000\_0322.asc  
 25/06/2019 11:15:55 AM A----- 2,642,480  
 DEM\_BC32\_2017\_1000\_0323.asc  
 25/06/2019 11:15:53 AM A----- 2,687,297  
 DEM\_BC32\_2017\_1000\_0324.asc

|                               |           |                             |  |           |  |
|-------------------------------|-----------|-----------------------------|--|-----------|--|
| 25/06/2019 11:15:51 AM A----- | 2,717,081 | DEM_BC32_2017_1000_0412.asc | 306,550,990  | 125 Files |  |
| 25/06/2019 11:15:50 AM A----- | 2,189,644 | DEM_BC32_2017_1000_0418.asc |  |           |  |
| 25/06/2019 11:15:48 AM A----- | 2,617,209 | DEM_BC32_2017_1000_0419.asc |  |           |  |
| 25/06/2019 11:15:48 AM A----- | 2,752,041 | DEM_BC32_2017_1000_0510.asc | H:\ProjectDATA\WaikatoRegion2015_2017LiDAR_ReprocessingFpfa1188\OUTP |           |  |
| 25/06/2019 11:15:46 AM A----- | 2,755,203 | DEM_BC32_2017_1000_0517.asc | UT\LowerEmbankment2\Gridded_DSM                                      |           |  |
| 25/06/2019 11:15:45 AM A----- | 2,130,264 | DEM_BC32_2017_1000_0518.asc | 25/06/2019 11:20:10 AM A-----  | 2,763,631 |  |
| 25/06/2019 11:15:43 AM A----- | 2,622,915 | DEM_BC32_2017_1000_0519.asc | DSM_BC31_2017_1000_1047.asc  |           |  |
| 25/06/2019 11:15:42 AM A----- | 2,763,292 | DEM_BC32_2017_1000_0604.asc | 25/06/2019 11:20:10 AM A-----  | 2,746,285 |  |
| 25/06/2019 11:15:40 AM A----- | 2,658,683 | DEM_BC32_2017_1000_0605.asc | DSM_BC31_2017_1000_1050.asc  |           |  |
| 25/06/2019 11:15:39 AM A----- | 2,513,920 | DEM_BC32_2017_1000_0606.asc | 25/06/2019 11:20:07 AM A-----  | 2,765,531 |  |
| 25/06/2019 11:15:37 AM A----- | 2,362,858 | DEM_BC32_2017_1000_0607.asc | DSM_BC31_2017_1000_1347.asc  |           |  |
| 25/06/2019 11:15:36 AM A----- | 2,650,774 | DEM_BC32_2017_1000_0613.asc | 25/06/2019 11:20:07 AM A-----  | 2,714,742 |  |
| 25/06/2019 11:15:34 AM A----- | 2,371,619 | DEM_BC32_2017_1000_0614.asc | DSM_BC31_2019_1000_0850.asc  |           |  |
| 25/06/2019 11:15:32 AM A----- | 2,662,137 | DEM_BC32_2017_1000_0615.asc | 25/06/2019 11:20:05 AM A-----  | 2,738,109 |  |
| 25/06/2019 11:15:32 AM A----- | 2,434,500 | DEM_BC32_2017_1000_0616.asc | DSM_BC31_2019_1000_0948.asc  |           |  |
| 25/06/2019 11:15:28 AM A----- | 2,116,794 | DEM_BC32_2017_1000_0617.asc | 25/06/2019 11:20:04 AM A-----  | 2,398,069 |  |
| 25/06/2019 11:15:29 AM A----- | 2,032,983 | DEM_BC32_2017_1000_0618.asc | DSM_BC31_2019_1000_0949.asc  |           |  |
| 25/06/2019 11:15:25 AM A----- | 2,633,679 | DEM_BC32_2017_1000_0619.asc | 25/06/2019 11:20:03 AM A-----  | 2,101,662 |  |
| 25/06/2019 11:15:25 AM A----- | 2,731,804 | DEM_BC32_2017_1000_0702.asc | DSM_BC31_2019_1000_0950.asc  |           |  |
| 25/06/2019 11:15:22 AM A----- | 2,448,779 | DEM_BC32_2017_1000_0703.asc | 25/06/2019 11:20:02 AM A-----  | 2,277,469 |  |
| 25/06/2019 11:15:22 AM A----- | 2,128,073 | DEM_BC32_2017_1000_0704.asc | DSM_BC31_2019_1000_1048.asc  |           |  |
| 25/06/2019 11:15:20 AM A----- | 2,037,871 | DEM_BC32_2017_1000_0705.asc | 25/06/2019 11:20:00 AM A-----  | 2,416,726 |  |
| 25/06/2019 11:15:19 AM A----- | 2,764,643 | DEM_BC32_2017_1000_0710.asc | DSM_BC31_2019_1000_1049.asc  |           |  |
| 25/06/2019 11:15:18 AM A----- | 2,657,765 | DEM_BC32_2017_1000_0712.asc | 25/06/2019 11:19:59 AM A-----  | 2,765,603 |  |
| 25/06/2019 11:15:17 AM A----- | 2,056,341 | DEM_BC32_2017_1000_0713.asc | DSM_BC31_2019_1000_1146.asc  |           |  |
| 25/06/2019 11:15:15 AM A----- | 2,021,482 | DEM_BC32_2017_1000_0714.asc | 25/06/2019 11:19:58 AM A-----  | 2,373,643 |  |
| 25/06/2019 11:15:14 AM A----- | 2,092,861 | DEM_BC32_2017_1000_0715.asc | DSM_BC31_2019_1000_1147.asc  |           |  |
| 25/06/2019 11:15:12 AM A----- | 2,365,333 | DEM_BC32_2017_1000_0716.asc | 25/06/2019 11:19:57 AM A-----  | 2,412,219 |  |
| 25/06/2019 11:15:12 AM A----- | 2,510,730 | DEM_BC32_2017_1000_0717.asc | DSM_BC31_2019_1000_1148.asc  |           |  |
| 25/06/2019 11:15:10 AM A----- | 2,264,677 | DEM_BC32_2017_1000_0718.asc | 25/06/2019 11:19:55 AM A-----  | 2,437,329 |  |
| 25/06/2019 11:15:07 AM A----- | 2,180,495 | DEM_BC32_2017_1000_0719.asc | DSM_BC31_2019_1000_1246.asc  |           |  |
| 25/06/2019 11:15:08 AM A----- | 2,586,097 | DEM_BC32_2017_1000_0720.asc | 25/06/2019 11:19:55 AM A-----  | 2,387,338 |  |
| 25/06/2019 11:15:05 AM A----- | 2,064,054 | DEM_BC32_2017_1000_0802.asc | DSM_BC31_2019_1000_1247.asc  |           |  |
| 25/06/2019 11:15:04 AM A----- | 2,765,630 | DEM_BC32_2017_1000_0809.asc | 25/06/2019 11:19:52 AM A-----  | 2,765,630 |  |
| 25/06/2019 11:15:03 AM A----- | 2,603,931 | DEM_BC32_2017_1000_0810.asc | DSM_BC31_2019_1000_1248.asc  |           |  |
| 25/06/2019 11:15:02 AM A----- | 2,302,931 | DEM_BC32_2017_1000_0811.asc | 25/06/2019 11:19:52 AM A-----  | 2,705,458 |  |
| 25/06/2019 11:14:59 AM A----- | 2,208,885 | DEM_BC32_2017_1000_0812.asc | DSM_BC31_2019_1000_1346.asc  |           |  |
| 25/06/2019 11:15:00 AM A----- | 2,346,061 | DEM_BC32_2017_1000_0813.asc | 25/06/2019 11:19:49 AM A-----  | 2,472,709 |  |
| 25/06/2019 11:14:57 AM A----- | 2,308,124 | DEM_BC32_2017_1000_0814.asc | DSM_BC32_2017_1000_0118.asc  |           |  |
| 25/06/2019 11:14:54 AM A----- | 2,524,686 | DEM_BC32_2017_1000_0815.asc | 25/06/2019 11:19:47 AM A-----  | 2,354,894 |  |
| 25/06/2019 11:14:56 AM A----- | 2,750,274 | DEM_BC32_2017_1000_0816.asc | DSM_BC32_2017_1000_0119.asc  |           |  |
| 25/06/2019 11:14:52 AM A----- | 2,765,474 | DEM_BC32_2017_1000_0818.asc | 25/06/2019 11:19:46 AM A-----  | 2,408,978 |  |
| 25/06/2019 11:14:50 AM A----- | 2,679,953 | DEM_BC32_2017_1000_0819.asc | DSM_BC32_2017_1000_0120.asc  |           |  |
| 25/06/2019 11:14:52 AM A----- | 2,752,541 | DEM_BC32_2017_1000_0820.asc | 25/06/2019 11:19:44 AM A-----  | 2,414,044 |  |
| 25/06/2019 11:14:48 AM A----- | 2,364,004 | DEM_BC32_2017_1000_0901.asc | DSM_BC32_2017_1000_0121.asc  |           |  |
| 25/06/2019 11:14:46 AM A----- | 2,742,045 | DEM_BC32_2017_1000_0907.asc | 25/06/2019 11:19:44 AM A-----  | 2,433,350 |  |
| 25/06/2019 11:14:45 AM A----- | 2,469,987 | DEM_BC32_2017_1000_0908.asc | DSM_BC32_2017_1000_0122.asc  |           |  |
| 25/06/2019 11:14:43 AM A----- | 2,173,075 | DEM_BC32_2017_1000_0909.asc | 25/06/2019 11:19:41 AM A-----  | 2,440,285 |  |
| 25/06/2019 11:14:42 AM A----- | 2,095,573 | DEM_BC32_2017_1000_0910.asc | DSM_BC32_2017_1000_0123.asc  |           |  |
| 25/06/2019 11:14:41 AM A----- | 2,086,966 | DEM_BC32_2017_1000_0911.asc | 25/06/2019 11:19:41 AM A-----  | 2,548,540 |  |
| 25/06/2019 11:14:38 AM A----- | 2,412,645 | DEM_BC32_2017_1000_0912.asc | DSM_BC32_2017_1000_0124.asc  |           |  |
| 25/06/2019 11:14:39 AM A----- | 2,680,301 | DEM_BC32_2017_1000_0913.asc | 25/06/2019 11:19:38 AM A-----  | 2,344,331 |  |
| 25/06/2019 11:14:34 AM A----- | 2,765,619 | DEM_BC32_2017_1000_0914.asc | DSM_BC32_2017_1000_0218.asc  |           |  |
| 25/06/2019 11:14:32 AM A----- | 2,583,401 | DEM_BC32_2017_1000_1006.asc | 25/06/2019 11:19:38 AM A-----  | 2,061,538 |  |
| 25/06/2019 11:14:28 AM A----- | 2,042,611 | DEM_BC32_2017_1000_1007.asc | DSM_BC32_2017_1000_0219.asc  |           |  |
| 25/06/2019 11:14:34 AM A----- | 2,035,764 | DEM_BC32_2017_1000_1008.asc | 25/06/2019 11:19:34 AM A-----  | 2,049,268 |  |
| 25/06/2019 11:14:24 AM A----- | 2,252,252 | DEM_BC32_2017_1000_1009.asc | DSM_BC32_2017_1000_0220.asc  |           |  |
| 25/06/2019 11:14:23 AM A----- | 2,584,931 | DEM_BC32_2017_1000_1010.asc | 25/06/2019 11:19:32 AM A-----  | 2,048,951 |  |
| 25/06/2019 11:14:19 AM A----- | 2,723,225 | DEM_BC32_2017_1000_1011.asc | DSM_BC32_2017_1000_0221.asc  |           |  |
| 25/06/2019 11:14:16 AM A----- | 2,763,240 | DEM_BC32_2017_1000_1106.asc | 25/06/2019 11:19:34 AM A-----  | 2,040,893 |  |
| 25/06/2019 11:14:12 AM A----- | 2,503,426 | DEM_BC32_2017_1000_1107.asc | DSM_BC32_2017_1000_0222.asc  |           |  |
| 25/06/2019 11:14:18 AM A----- | 2,633,232 | DEM_BC32_2017_1000_1108.asc | 25/06/2019 11:19:29 AM A-----  | 2,067,558 |  |
| 25/06/2019 11:14:09 AM A----- | 2,763,663 | DEM_BC32_2017_1000_1109.asc | DSM_BC32_2017_1000_0223.asc  |           |  |
| 25/06/2019 11:14:06 AM A----- | 2,698,545 | DEM_BC32_2019_1000_0316.asc | 25/06/2019 11:19:29 AM A-----  | 2,328,205 |  |
| 25/06/2019 11:14:04 AM A----- | 2,435,249 | DEM_BC32_2019_1000_0413.asc | DSM_BC32_2017_1000_0224.asc  |           |  |
| 25/06/2019 11:14:01 AM A----- | 2,265,707 | DEM_BC32_2019_1000_0414.asc | 25/06/2019 11:19:27 AM A-----  | 2,761,557 |  |
| 25/06/2019 11:14:06 AM A----- | 2,542,245 | DEM_BC32_2019_1000_0415.asc | DSM_BC32_2017_1000_0314.asc  |           |  |
| 25/06/2019 11:13:58 AM A----- | 2,762,581 | DEM_BC32_2019_1000_0416.asc | 25/06/2019 11:19:26 AM A-----  | 2,568,451 |  |
| 25/06/2019 11:13:56 AM A----- | 2,546,174 | DEM_BC32_2019_1000_0511.asc | DSM_BC32_2017_1000_0315.asc  |           |  |
| 25/06/2019 11:13:53 AM A----- | 2,132,766 | DEM_BC32_2019_1000_0512.asc | 25/06/2019 11:19:23 AM A-----  | 2,297,992 |  |
| 25/06/2019 11:13:57 AM A----- | 2,451,691 | DEM_BC32_2019_1000_0513.asc | DSM_BC32_2017_1000_0318.asc  |           |  |
| 25/06/2019 11:13:51 AM A----- | 2,748,957 | DEM_BC32_2019_1000_0514.asc | 25/06/2019 11:19:22 AM A-----  | 2,442,151 |  |
| 25/06/2019 11:13:49 AM A----- | 2,217,897 | DEM_BC32_2019_1000_0608.asc | DSM_BC32_2017_1000_0319.asc  |           |  |
| 25/06/2019 11:13:47 AM A----- | 2,082,503 | DEM_BC32_2019_1000_0609.asc | 25/06/2019 11:19:18 AM A-----  | 2,566,810 |  |
| 25/06/2019 11:13:46 AM A----- | 2,095,736 | DEM_BC32_2019_1000_0610.asc | DSM_BC32_2017_1000_0320.asc  |           |  |
| 25/06/2019 11:13:44 AM A----- | 2,388,123 | DEM_BC32_2019_1000_0611.asc | 25/06/2019 11:19:19 AM A-----  | 2,591,873 |  |
| 25/06/2019 11:13:40 AM A----- | 2,725,038 | DEM_BC32_2019_1000_0612.asc | DSM_BC32_2017_1000_0321.asc  |           |  |
| 25/06/2019 11:13:41 AM A----- | 2,163,382 | DEM_BC32_2019_1000_0706.asc | 25/06/2019 11:19:16 AM A-----  | 2,627,391 |  |
| 25/06/2019 11:13:33 AM A----- | 2,324,534 | DEM_BC32_2019_1000_0707.asc | DSM_BC32_2017_1000_0322.asc  |           |  |
| 25/06/2019 11:13:32 AM A----- | 2,496,611 | DEM_BC32_2019_1000_0708.asc | 25/06/2019 11:19:14 AM A-----  | 2,642,557 |  |
| 25/06/2019 11:13:29 AM A----- | 2,661,839 | DEM_BC32_2019_1000_0709.asc | DSM_BC32_2017_1000_0323.asc  |           |  |
| 25/06/2019 11:13:26 AM A----- | 2,424,801 | DEM_BC32_2019_1000_0801.asc | 25/06/2019 11:19:11 AM A-----  | 2,687,327 |  |
| 25/06/2019 11:13:22 AM A----- | 2,172,852 | DEM_BC32_2019_1000_0803.asc | DSM_BC32_2017_1000_0324.asc  |           |  |
| 25/06/2019 11:13:19 AM A----- | 2,480,618 | DEM_BC32_2019_1000_0804.asc | 25/06/2019 11:19:13 AM A-----  | 2,717,273 |  |
| 25/06/2019 11:13:16 AM A----- | 2,726,479 | DEM_BC32_2019_1000_0805.asc | DSM_BC32_2017_1000_0412.asc  |           |  |
| 25/06/2019 11:13:13 AM A----- | 2,629,329 | DEM_BC32_2019_1000_0902.asc | 25/06/2019 11:19:09 AM A-----  | 2,230,894 |  |
|                               |           |                             | DSM_BC32_2017_1000_0418.asc  |           |  |
|                               |           |                             | H:\ProjectDATA\WaikatoRegion2015_2017LiDAR_ReprocessingFpfa1188\OUTP |           |  |
|                               |           |                             | UT\LowerEmbankment2\Gridded_DSM                                      |           |  |
|                               |           |                             | 25/06/2019 11:20:10 AM A-----  | 2,763,631 |  |
|                               |           |                             | DSM_BC31_2017_1000_1047.asc  |           |  |
|                               |           |                             | 25/06/2019 11:20:10 AM A-----  | 2,746,285 |  |
|                               |           |                             | DSM_BC31_2017_1000_1050.asc  |           |  |
|                               |           |                             | 25/06/2019 11:20:07 AM A-----  | 2,765,531 |  |
|                               |           |                             | DSM_BC31_2017_1000_1347.asc  |           |  |
|                               |           |                             | 25/06/2019 11:20:07 AM A-----  | 2,714,742 |  |
|                               |           |                             | DSM_BC31_2019_1000_0850.asc  |           |  |
|                               |           |                             | 25/06/2019 11:20:05 AM A-----  | 2,738,109 |  |
|                               |           |                             | DSM_BC31_2019_1000_0948.asc  |           |  |
|                               |           |                             | 25/06/2019 11:20:04 AM A-----  | 2,398,069 |  |
|                               |           |                             | DSM_BC31_2019_1000_0949.asc  |           |  |
|                               |           |                             | 25/06/2019 11:20:03 AM A-----  | 2,101,662 |  |
|                               |           |                             | DSM_BC31_2019_1000_0950.asc  |           |  |
|                               |           |                             | 25/06/2019 11:20:02 AM A-----  | 2,277,469 |  |
|                               |           |                             | DSM_BC31_2019_1000_1048.asc  |           |  |
|                               |           |                             | 25/06/2019 11:20:00 AM A-----  | 2,416,726 |  |
|                               |           |                             | DSM_BC31_2019_1000_1049.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:59 AM A-----  | 2,765,603 |  |
|                               |           |                             | DSM_BC31_2019_1000_1146.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:58 AM A-----  | 2,373,643 |  |
|                               |           |                             | DSM_BC31_2019_1000_1147.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:57 AM A-----  | 2,412,219 |  |
|                               |           |                             | DSM_BC31_2019_1000_1148.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:55 AM A-----  | 2,437,329 |  |
|                               |           |                             | DSM_BC31_2019_1000_1246.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:55 AM A-----  | 2,387,338 |  |
|                               |           |                             | DSM_BC31_2019_1000_1247.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:52 AM A-----  | 2,765,630 |  |
|                               |           |                             | DSM_BC31_2019_1000_1248.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:52 AM A-----  | 2,705,458 |  |
|                               |           |                             | DSM_BC31_2019_1000_1346.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:49 AM A-----  | 2,472,709 |  |
|                               |           |                             | DSM_BC32_2017_1000_0118.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:47 AM A-----  | 2,354,894 |  |
|                               |           |                             | DSM_BC32_2017_1000_0119.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:46 AM A-----  | 2,408,978 |  |
|                               |           |                             | DSM_BC32_2017_1000_0120.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:44 AM A-----  | 2,414,044 |  |
|                               |           |                             | DSM_BC32_2017_1000_0121.asc  |           |  |
|                               |           |                             | 25/06/2019 11:19:44 AM A-----  | 2,433,350 |  |
|                               |           |                             | DSM_BC32_  |           |  |

```

25/06/2019 11:19:08 AM A----- 2,621,801 DSM_BC32_2017_1000_0419.asc
25/06/2019 11:19:04 AM A----- 2,752,112 DSM_BC32_2017_1000_0510.asc
25/06/2019 11:19:06 AM A----- 2,755,682 DSM_BC32_2017_1000_0517.asc
25/06/2019 11:19:02 AM A----- 2,158,983 DSM_BC32_2017_1000_0518.asc
25/06/2019 11:19:02 AM A----- 2,624,194 DSM_BC32_2017_1000_0519.asc
25/06/2019 11:19:00 AM A----- 2,763,800 DSM_BC32_2017_1000_0604.asc
25/06/2019 11:18:59 AM A----- 2,659,213 DSM_BC32_2017_1000_0605.asc
25/06/2019 11:18:57 AM A----- 2,529,868 DSM_BC32_2017_1000_0606.asc
25/06/2019 11:18:57 AM A----- 2,361,446 DSM_BC32_2017_1000_0607.asc
25/06/2019 11:18:54 AM A----- 2,684,233 DSM_BC32_2017_1000_0613.asc
25/06/2019 11:18:53 AM A----- 2,419,133 DSM_BC32_2017_1000_0614.asc
25/06/2019 11:18:51 AM A----- 2,667,866 DSM_BC32_2017_1000_0615.asc
25/06/2019 11:18:48 AM A----- 2,455,677 DSM_BC32_2017_1000_0616.asc
25/06/2019 11:18:45 AM A----- 2,130,300 DSM_BC32_2017_1000_0617.asc
25/06/2019 11:18:49 AM A----- 2,037,092 DSM_BC32_2017_1000_0618.asc
25/06/2019 11:18:40 AM A----- 2,634,745 DSM_BC32_2017_1000_0619.asc
25/06/2019 11:18:41 AM A----- 2,732,062 DSM_BC32_2017_1000_0702.asc
25/06/2019 11:18:38 AM A----- 2,451,976 DSM_BC32_2017_1000_0703.asc
25/06/2019 11:18:37 AM A----- 2,156,838 DSM_BC32_2017_1000_0704.asc
25/06/2019 11:18:35 AM A----- 2,060,534 DSM_BC32_2017_1000_0705.asc
25/06/2019 11:18:35 AM A----- 2,764,641 DSM_BC32_2017_1000_0710.asc
25/06/2019 11:18:33 AM A----- 2,681,344 DSM_BC32_2017_1000_0712.asc
25/06/2019 11:18:31 AM A----- 2,150,775 DSM_BC32_2017_1000_0713.asc
25/06/2019 11:18:30 AM A----- 2,034,784 DSM_BC32_2017_1000_0714.asc
25/06/2019 11:18:28 AM A----- 2,134,079 DSM_BC32_2017_1000_0715.asc
25/06/2019 11:18:27 AM A----- 2,370,719 DSM_BC32_2017_1000_0716.asc
25/06/2019 11:18:26 AM A----- 2,523,640 DSM_BC32_2017_1000_0717.asc
25/06/2019 11:18:25 AM A----- 2,276,060 DSM_BC32_2017_1000_0718.asc
25/06/2019 11:18:22 AM A----- 2,192,770 DSM_BC32_2017_1000_0719.asc
25/06/2019 11:18:23 AM A----- 2,588,538 DSM_BC32_2017_1000_0720.asc
25/06/2019 11:18:19 AM A----- 2,082,054 DSM_BC32_2017_1000_0802.asc
25/06/2019 11:18:19 AM A----- 2,765,630 DSM_BC32_2017_1000_0809.asc
25/06/2019 11:18:16 AM A----- 2,620,796 DSM_BC32_2017_1000_0810.asc
25/06/2019 11:18:15 AM A----- 2,337,233 DSM_BC32_2017_1000_0811.asc
25/06/2019 11:18:14 AM A----- 2,280,938 DSM_BC32_2017_1000_0812.asc
25/06/2019 11:18:11 AM A----- 2,347,653 DSM_BC32_2017_1000_0813.asc
25/06/2019 11:18:10 AM A----- 2,311,907 DSM_BC32_2017_1000_0814.asc
25/06/2019 11:18:07 AM A----- 2,534,712 DSM_BC32_2017_1000_0815.asc
25/06/2019 11:18:07 AM A----- 2,750,285 DSM_BC32_2017_1000_0816.asc
25/06/2019 11:18:04 AM A----- 2,765,474 DSM_BC32_2017_1000_0818.asc
25/06/2019 11:18:03 AM A----- 2,681,087 DSM_BC32_2017_1000_0819.asc
25/06/2019 11:17:59 AM A----- 2,752,514 DSM_BC32_2017_1000_0820.asc
25/06/2019 11:17:57 AM A----- 2,350,775 DSM_BC32_2017_1000_0901.asc
25/06/2019 11:18:01 AM A----- 2,743,336 DSM_BC32_2017_1000_0907.asc
25/06/2019 11:17:54 AM A----- 2,494,821 DSM_BC32_2017_1000_0908.asc
25/06/2019 11:17:52 AM A----- 2,241,140 DSM_BC32_2017_1000_0909.asc
25/06/2019 11:17:51 AM A----- 2,107,401 DSM_BC32_2017_1000_0910.asc
25/06/2019 11:17:49 AM A----- 2,096,459 DSM_BC32_2017_1000_0911.asc
25/06/2019 11:17:49 AM A----- 2,414,435 DSM_BC32_2017_1000_0912.asc
25/06/2019 11:17:47 AM A----- 2,680,383 DSM_BC32_2017_1000_0913.asc
25/06/2019 11:17:46 AM A----- 2,765,617 DSM_BC32_2017_1000_0914.asc
25/06/2019 11:17:44 AM A----- 2,612,346 DSM_BC32_2017_1000_1006.asc
25/06/2019 11:17:43 AM A----- 2,136,676 DSM_BC32_2017_1000_1007.asc
25/06/2019 11:17:41 AM A----- 2,162,353 DSM_BC32_2017_1000_1008.asc
25/06/2019 11:17:41 AM A----- 2,313,320 DSM_BC32_2017_1000_1009.asc
25/06/2019 11:17:38 AM A----- 2,585,606 DSM_BC32_2017_1000_1010.asc
25/06/2019 11:17:35 AM A----- 2,725,388 DSM_BC32_2017_1000_1011.asc
25/06/2019 11:17:31 AM A----- 2,764,040 DSM_BC32_2017_1000_1106.asc
25/06/2019 11:17:37 AM A----- 2,530,255 DSM_BC32_2017_1000_1107.asc
25/06/2019 11:17:29 AM A----- 2,633,834 DSM_BC32_2017_1000_1108.asc
25/06/2019 11:17:28 AM A----- 2,763,645 DSM_BC32_2017_1000_1109.asc
25/06/2019 11:17:26 AM A----- 2,707,868 DSM_BC32_2019_1000_0316.asc
25/06/2019 11:17:23 AM A----- 2,456,456 DSM_BC32_2019_1000_0413.asc
25/06/2019 11:17:23 AM A----- 2,350,155 DSM_BC32_2019_1000_0414.asc
25/06/2019 11:17:20 AM A----- 2,598,416 DSM_BC32_2019_1000_0415.asc
25/06/2019 11:17:19 AM A----- 2,762,699 DSM_BC32_2019_1000_0416.asc
25/06/2019 11:17:17 AM A----- 2,555,704 DSM_BC32_2019_1000_0511.asc
25/06/2019 11:17:14 AM A----- 2,211,382 DSM_BC32_2019_1000_0512.asc
25/06/2019 11:17:14 AM A----- 2,483,616 DSM_BC32_2019_1000_0513.asc
25/06/2019 11:17:12 AM A----- 2,753,329 DSM_BC32_2019_1000_0514.asc
25/06/2019 11:17:10 AM A----- 2,217,912 DSM_BC32_2019_1000_0608.asc
25/06/2019 11:17:09 AM A----- 2,094,450 DSM_BC32_2019_1000_0609.asc
25/06/2019 11:17:07 AM A----- 2,133,343 DSM_BC32_2019_1000_0610.asc
25/06/2019 11:17:07 AM A----- 2,416,987 DSM_BC32_2019_1000_0611.asc
25/06/2019 11:17:05 AM A----- 2,738,081 DSM_BC32_2019_1000_0612.asc
25/06/2019 11:17:04 AM A----- 2,179,314 DSM_BC32_2019_1000_0706.asc
25/06/2019 11:17:03 AM A----- 2,344,213 DSM_BC32_2019_1000_0707.asc
25/06/2019 11:17:02 AM A----- 2,518,604 DSM_BC32_2019_1000_0708.asc
25/06/2019 11:17:00 AM A----- 2,666,150 DSM_BC32_2019_1000_0709.asc
25/06/2019 11:17:00 AM A----- 2,426,397 DSM_BC32_2019_1000_0801.asc
25/06/2019 11:16:57 AM A----- 2,194,876 DSM_BC32_2019_1000_0803.asc
25/06/2019 11:16:56 AM A----- 2,486,439 DSM_BC32_2019_1000_0804.asc
25/06/2019 11:16:54 AM A----- 2,733,184 DSM_BC32_2019_1000_0805.asc
25/06/2019 11:16:53 AM A----- 2,641,523 DSM_BC32_2019_1000_0902.asc

```

308,315,380 125 Files

```

H:\ProjectDATA\WaikatoRegion2015_2017LiDAR_ReprocessingFpfa1188\OUTP
UT\LowerEmbankment2\Hydro_Enforcement
25/06/2019 11:20:15 AM A----- 15,168 Polygon.dbf
25/06/2019 11:20:15 AM A----- 399 Polygon.prj
25/06/2019 11:20:14 AM A----- 137,292 Polygon.shp
25/06/2019 11:20:14 AM A----- 540 Polygon.shx
25/06/2019 11:20:13 AM A----- 11,058 Polyline.dbf
25/06/2019 11:20:13 AM A----- 399 Polyline.prj
25/06/2019 11:20:12 AM A----- 377,860 Polyline.shp
25/06/2019 11:20:12 AM A----- 420 Polyline.shx
-----
543,136 8 Files

```

```

H:\ProjectDATA\WaikatoRegion2015_2017LiDAR_ReprocessingFpfa1188\OUTP
UT\LowerEmbankment2\TileLayout
28/06/2019 2:38:34 PM A----- 23,133
LiDARTilesWaikatoRegionReprocessedEmbankment2Fpfa1188_2015-2017.dbf
28/06/2019 2:38:54 PM A----- 93,820
LiDARTilesWaikatoRegionReprocessedEmbankment2Fpfa1188_2015-2017.dxf
28/06/2019 2:38:54 PM A----- 399
LiDARTilesWaikatoRegionReprocessedEmbankment2Fpfa1188_2015-2017.prj
28/06/2019 2:38:34 PM A----- 17,100
LiDARTilesWaikatoRegionReprocessedEmbankment2Fpfa1188_2015-2017.shp
28/06/2019 2:38:34 PM A----- 1,100
LiDARTilesWaikatoRegionReprocessedEmbankment2Fpfa1188_2015-2017.shx
-----
135,552 5 Files

```

#### Summary of

```

H:\ProjectDATA\WaikatoRegion2015_2017LiDAR_ReprocessingFpfa1188\OUTP
UT\LowerEmbankment2
Directories = 9
Files = 520
Bytes = 10,075,408,170

```