

# HAINES SURVEYS

GRAVITY SURVEY SPECIALISTS



Job No. 1909

## Lake Lewis GRAVITY SURVEY

Salt Lake Potash

August 2019

**PERTH**  
**PO BOX 120**  
BULLCREEK, WA 6149  
PERTH, AUSTRALIA  
TEL:(08) 9332 2140  
FAX: (08) 9332 2609  
INTER: +618 9332 2140

**ADELAIDE**  
**PO BOX 196**  
ALDGATE SA 5154  
ADELAIDE, AUSTRALIA  
TEL (08) 8370 8779  
FAX (08) 8370 8758  
INTER: +618 8370 8779

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## Introduction

A detailed GPS gravity survey designated as Lake Lewis Gravity Survey has been carried out in an area approximately 15km South West of Tilmouth Roadhouse, Northern Territory on Lake Lewis. The survey was completed over the course of 8 days between the 22<sup>th</sup> and 29<sup>th</sup> of August 2019 on behalf of Salt Lake Potash.

The proposed Lake Lewis Gravity Survey consisted of 527 stations on 21 south west to north east trending traverses. All proposed traverses are coincident with GDA94. Traverse intervals were not precisely uniform but were approx. 1100 metres and station intervals were 200 metres. The lines were bounded in the west by GDA94 Zone 53 2298140E, in the east by 250011E, in the south by 7455550N and in the north by 7474400N.

The completed Lake Lewis Gravity Survey consisted of all 527 proposed station locations. Some stations have been offset from their planned position along the traverses to avoid taking readings on small islands within the salt lake.

There were 32 observations repeated for quality control purposes, giving a repeat percentage of 6.0%.

The Bouguer anomaly processing has been performed using a country rock density of 2.67 g/cc.

Lake Lewis Gravity Survey Location Diagram (map is oriented to the North)

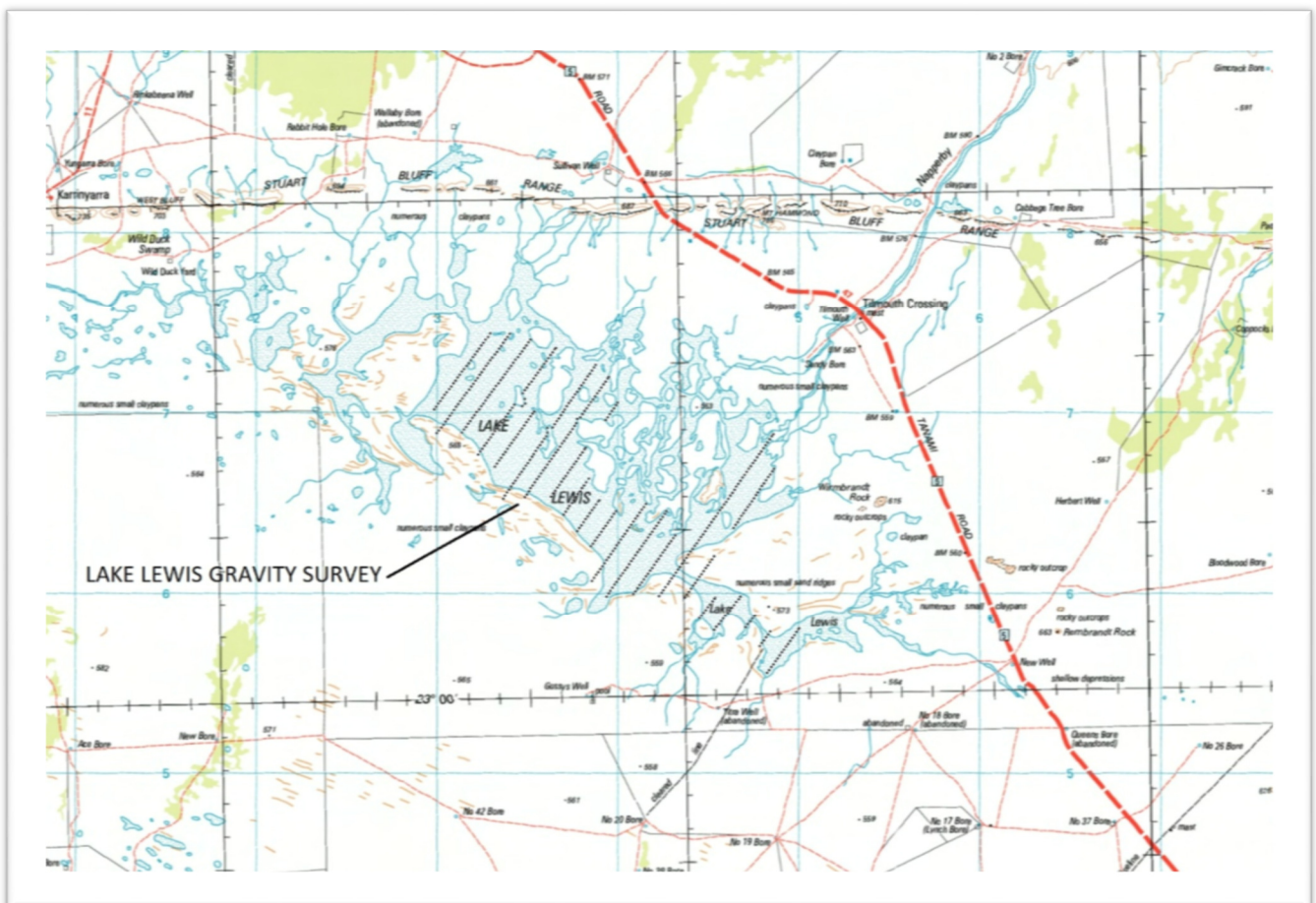


Figure 1 – Lake Lewis Gravity Survey

## **Survey and Gravity Base Stations**

A GPS/Gravity base station, designated as 2019.0901 was established within the proposed survey grid. The base station was established in a convenient location within the project area to provide good UHF radio coverage for the RTK system. The actual base is marked with a short star iron picket driven flush with the natural surface. The base is witnessed by a long star picket within 0.3m of the ground mark standing about 1m tall. Aluminium tags are attached with the inscription "Haines Surveys" "Gravity Base" "2019.0901".

A sub-base designated 2019.0999 was located within 10 minutes drive of the main base to provide a backup base station in case loop ties to the main base were poor. These positions are not marked in the field.

Horizontal and vertical control for 2019.0901 was established using the AUSPOS online GPS processing service provided by Geoscience Australia. This method provides control within the GDA94 Datum to within +/- 5 cm. It largely replaces the need for finding local survey marks or allows accurate control to be established when local marks are not available.

A total of 24 hours (at 5 second intervals) of observations were logged over 3 days for base 2019 0901. The following outlines the Cartesian coordinate precision attained per day.

1 Sigma	sX(m)	sY(m)	sZ(m)	yyyy/mm/dd
0901	0.012	0.012	0.015	2019/08/22
0901	0.010	0.011	0.013	2019/08/23
0901	0.011	0.010	0.011	2019/08/24

Since GDA94 and WGS84 (Global Positioning System Datum) are virtually equivalent the GDA94 values can be directly input into the GPS processing software for all calculations.

Vertical control has been converted to an Australian Height Datum (AHD) height using the GDA94 height determined from AUSPOS and the AUSGEOID09 gravimetric geoid.

Gravity control for base station 2019.0901 was established on the Australian Fundamental Gravity Network (AAGD07) using 4 of A-B ties from known AFGN station 1991910335 (Alice Springs Airport Isogal).

All completed gravity ties ensured that gravity control was established to within 0.010.

Coordinates for all bases are listed in the table below.

<b>Lake Lewis Survey/Gravity Control</b>							
	<b>WGS84/GDA94</b>			<b>MGA94 Zone 53</b>		<b>AHD</b>	<b>AAGD07</b>
<b>Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Height</b>	<b>Easting</b>	<b>Northing</b>	<b>Height</b>	<b>Gravity mgal</b>
2019.0901	-22 57 20.26616	132 32 43.34987	582.358	248310.194	7459288.42	563.457	978718.243
19919103335	-23 48 04.46400	133 54 10.18800	545	388230.299	7367346.76	530.513	978639.384
1991910335 - Alice Springs Aerodrome Isogal (Easting Northing Zone 53)							

## **GPS Survey and Gravity Datum**

Horizontal Datum:	Geocentric Datum of Australia 1994 (GDA94) Map Grid of Australia 1994 (MGA94) Zone 53
Vertical Datum:	Australian Height Datum (AHD)
Gravity Datum:	AAGD07

## **GPS Observations and Processing**

Carrier phase GPS data has been collected using *Trimble R8 GNSS* series geodetic receivers.

Measurements to existing control have been made using Static techniques. All static baselines have been processed to double difference fixed solutions resulting in horizontal and vertical precision of approximately 2 cm.

Measurements for detail gravity observations have been made using Real Time Kinematic (RTK) techniques giving horizontal and vertical precision of at least 5 cm.

Static baseline processing and RTK processing has been done using Trimble Business Center Version 2.5 software.

Details of Horizontal and Vertical control are given in the sections above.

## **Gravity Observations**

Gravity measurements have been made using a *Scintrex CG5 Autograv* instruments numbered 14938.

Readings of 120 seconds were taken at all base stations. Readings of 40 seconds were taken at all other gravity survey points. Base station readings were taken at the beginning of the day and at the end of the day's fieldwork.

All Autograv instruments apply an instrument drift correction to their final gravity readings. Any residual drifts between opening and closing base station readings are corrected by the gravity post processing software. The instruments also apply Earth Tide Corrections to their final gravity reading at each station. The various instrument calibration constants are contained in the daily gravity data files.

## **Point Numbering and Marking**

For the gravity survey, an 8 digit point number is used to identify each gravity station. The first 4 digits indicate the line number. The second 4 digits indicate the station number.

For the south west – north east traverse (lines), on MGA94, the 8 digits are constructed arbitrarily.

For the line numbers the most north westerly traverse/line was assigned a line number of 5000 and for each subsequent line to the south east 20 was added. i.e. line numbers 5000, 5020, 5040 etc

For the station numbers the most north easterly station on each traverse/line was assigned a line number of 4000 and for each subsequent station along the traverse to the south west 20 was added. i.e. line numbers 4000, 4020, 4040 etc

Line No = 5000                      Station No = 4000

That is, Point No = 50004000

Station numbers have not been expanded in the processed data

The gravity stations have not been marked in the field.

## Gravity Processing

The gravity values for this survey are related to the *Australian National Gravity Database* using the *Australian Absolute Gravity Datum 2007 (AAGD07)* values at known Gravity Stations as provided by *Geoscience Australia*.

**Note that all gravity values shown in these surveys are expressed in units of milligals.**

The field gravity observations have been processed using standard formulae and constants as documented by *Geoscience Australia* to produce a Bouguer Anomaly for each gravity station.

The meter reading as recorded in the raw Scintrex data file is corrected for instrument tilts, meter drift and Earth Tide. Post processing corrections are detailed below.

Reference:

*V\_GRAV\_JETSTREAM\_AAGD07\_final\_REVISIED\_NOV\_2008.pdf*

## Drift

The residual drift between base station readings is calculated for each station reading proportionately by time. This is the drift value shown in the processing output.

$$\text{Drift} = \left[ (t_n - t_1) \frac{(b_2 - b_1)}{(t_2 - t_1)} \right]$$

$t_n$  = time of meter reading at each station

$b_1$  = base meter reading prior to station reading

$t_1$  = time of base reading  $b_1$

$b_2$  = base meter reading after station reading

$t_2$  = time of base reading  $b_2$

## Observed Gravity

This is the observed gravity value in milligals.

$$\text{Obs}_g = b_g + (r_n - \text{drift}) - b_1$$

$b_g$  = base stn gravity value (AAGD07)

$r_n$  = meter reading at each station as shown in the gravity meter log file

drift = residual drift correction as shown above

$b_1$  = base meter reading prior to station reading

Atmospheric Correction

$$\text{Atmos} = 8.74 - (0.00099 * h) + (0.0000000356 * h^2) / 10$$

h = height above ellipsoid

Anomaly

This is the difference between the observed gravity and the theoretical gravity value at each station. The theoretical value is calculated using the *1980 International Gravity Formula (Moritz, 1980)*.

$$g_{th} = 978032.67715 ( 1 + 0.001931851353(\sin^2 f) ) / \sqrt{( 1 - 0.0066943800229(\sin^2 f) )}$$

f = GDA94 Latitude

$$\text{Anom} = \text{Obs}_g - g_{th} - \text{Atmos}$$

Obs = observed gravity as explained above

Free Air Correction

The freeair correction is calculated using

$$\text{Freeair} = (3.087691 - 0.004398 \sin^2 f) * h - 7.2125 * 10^{-7} h^2 / 10$$

h = height above ellipsoid

Bouguer Correction

This uses the closed form equation for the gravity effect of a spherical cap of radius 166.7 km based on a spherical Earth with a mean radius of 6,371.0087714 km, height relative to the ellipsoid.

$$\text{Bouguer} = -(2 \pi G \rho ((1 + \mu) * h - \lambda R)) / 10$$

where

$\pi$  is pi

G is the gravitational constant

$$= 6.67428 \times 10^{-11} \text{ m}^3\text{kg}^{-1}\text{s}^{-2} \text{ (Mohr and Taylor 2001);}$$

$\rho$  = density (2.67 g/cc used for this survey )

h is the ellipsoid height in metres of the station

R = ( $R_o$  + h) the radius of the earth at the station

$R_o$  is the mean radius of the earth = 6,371.0087714 km

GRS 80 value from Moritz or 6,371 km (LaFehr)

$\mu$  &  $\lambda$  are dimensionless coefficients with following definitions

$$\mu = ((1/3) * \eta^2 - \eta)$$

$$\text{where } \eta = h/R$$

$$\lambda = (1/3) \{ (d + f\delta + \delta^2) [(f - \delta)^2 + k]^{1/2} + p + m * \ln(n / (f - \delta + [(f - \delta)^2 + k]^{1/2})) \}$$

where:

$$d = 3 * \cos^2 \alpha - 2$$

$$f = \cos \alpha$$

$$k = \sin^2 \alpha$$

$$p = -6 * \cos^2 \alpha \sin(\alpha/2) + 4 * \sin^3(\alpha/2)$$

$$\delta = R_o/R$$

$$m = -3 * \sin^2 \alpha \cos \alpha = -3 * k * f$$



$$n = 2 * [\sin(\alpha/2) - \sin^2(\alpha/2)]$$

$$\alpha = S/R_o$$

S = Bullard B Surface radius = 166.735 km.

### Bouguer Anomaly

Bouguer Anomaly = Anomaly + Freeair + Bouguer

### Geoidal Bouguer Anomaly

Free Air Anomalies and Bouguer Anomalies are also provided using geoid heights and an infinite slab Bouguer correction. They are designated as Geoidal Free Air Anomaly and Geoidal Bouguer Anomaly respectively.

These anomalies are calculated with the formulae in use prior to 5 February 2008 when the AAGD07 gravity datum was implemented. These formulae are:

Theoretical gravity based on the 1967 international gravity formula:

$$G_{th} = 978031.8456 * (1 + 0.005278895 \sin^2\phi + 0.000023462 \sin^4\phi)$$

$$\text{Geoidal FreeAir} = ((3.08768 - 0.00440 \sin^2\phi) * H - 0.000001442 * H^2) / 10$$

$$\text{GFreeAirAnom} = \text{Obs}_g - G_{th} + \text{Geoidal FreeAir}$$

$$\text{Geoidal Bouguer} = -0.04191 * H * \rho$$

f = GDA94 Latitude

H = Geoid Height (ground elevation)

$\rho$  = density (2.67 g/cc used for this survey)

$$\text{Geoidal Bouguer Anomaly} = G_{Obs} - G_{th} + \text{Geoidal FreeAir} + \text{Geoidal Bouguer}$$

**NOTE:** The Geoidal Free Air and Geoidal Bouguer Anomalies calculated using geoid heights and the infinite slab model will NOT be the same as those obtained prior to 5 February 2008. The data are now referenced to the new gravity datum AAGD07. Data prior to 5 February 2008 were in the ISOGAL84 gravity datum.

To convert observed gravity values from ISOGAL84 to AAGD07, the following formula can be used:

$$g(\text{AAGD07}) = g(\text{ISOGAL84}) - 0.078 \text{ mGal}$$

## Results Formats

Results of the gravity processing (with Bouguer corrections at density 2.67 g/cc) are included in the Appendix of this report. They are not printed with the hard copy version.

The results are also supplied in digital form on CD within the file 1909\_Lake\_Lewis.csv.

### CSV Format

This is a Comma Separated Variable format file. This format facilitates data import into spreadsheet and database software. Each record (line) contains the following data fields:

"Pt#"	Station identifiers used in data loggers, line and station numbers combined
"Line"	Station line number
"Stn"	Station number
"Date"	Date of observation
"Day"	GPS day number
"Time"	Time of observation
"GDA94_Lat"	WGS84/GDA94 Latitude used in GPS observation
"GDA94_Long"	WGS84/GDA94 Longitude used in GPS observation
"GDA94_Ht"	Height above the ellipsoid defined by the WGS84 Datum
"MGA94(ZONE53)E"	Easting value for observation on the MGA94/GDA94 Datum
"MGA94(ZONE53)N"	Northing value for observation on the MGA94/GDA94 Datum
"AHD_Ht"	Height of observation in the Australian Height Datum
"Meter_Ser_No"	Gravity meter serial number
"Meter_Rdg"	Gravity meter observation value in mGals
"Meter_Error"	Measurement of the quality of the gravity observation (a function of the SD of the observation set used and the duration of the set)
"ETC"	Earth Tide Correction applied to the gravity observation
"Drift"	The component of the meter drift between opening and closing gravity base observations applied to the observation
"Corr_Meter"	The meter observation with the drift applied
"dg"	The difference in gravity between the base and the observation
"Obs_g"	Observed gravity of the station
"Anom"	Difference between observed and theoretical gravity
"Freeair"	Free air correction (see above)
"Bouguer(2.67)"	Bouguer correction using a density of 2.67g/cc (see above)
"Bouguer_Anom"	Bouguer anomaly (see above)

Field gravity observation files with the extension .DAT and .job are also supplied in a folder named *Raw Data*.

#### \*.DAT

These are the raw data files from the *Scintrex CG5* gravity meter. There is a separate file for each day's data. The files are identified by the Julian day number (001 = Jan 1st) with the prefix G. eg. G030 = day 030 (30th January).

#### \*.JOB

These are the GPS Real Time Kinematic Data Collector files. They are ASCII format files containing the GPS vectors from the base station. The data is structured in a Trimble format (job file Version 7).

**Lake Lewis production Log**

<b>Job No. 1909 - Lake Lewis Gravity Survey Production log</b>				
<b>Date</b>	<b>Day#</b>	<b>Obs</b>	<b>Repeats</b>	<b>Comments</b>
21/08/2019	233			Mobilisation to Tilmouth Well
22/08/2019	234	76	0	Commenced Lake Lewis Gravity Survey
23/08/2019	235	82	4	Lake Lewis Survey
24/08/2019	236	71	4	Lake Lewis Survey
25/08/2019	237	71	5	Lake Lewis Survey
26/08/2019	238	65	5	Lake Lewis Survey
27/08/2019	239	69	6	Lake Lewis Survey
28/08/2019	240	66	4	Lake Lewis Survey
29/08/2019	241	27	4	Completed Lake Lewis Gravity Survey
30/08/2019	242			De-mobilised from Tilmouth Well
	<b>Total</b>	<b>527</b>	<b>32</b>	

**Lake Lewis Gravity Survey Repeats**

Pt #	Day	E	N	H	G	Bouguer
53004160	D234	243,195.342	7,461,164.187	551.378	978,715.237	+10.042
53004160	D235	243,195.429	7,461,164.176	551.376	978,715.198	+10.003
		-0.087	+0.011	+0.002	+0.039	+0.039
53004180	D234	243,312.188	7,461,330.106	551.702	978,714.879	+9.845
53004180	D235	243,312.271	7,461,330.097	551.705	978,714.842	+9.808
		-0.083	+0.009	-0.003	+0.037	+0.037
53404100	D234	244,260.167	7,460,593.012	551.378	978,717.331	+11.797
53404100	D237	244,260.123	7,460,593.110	551.397	978,717.317	+11.787
		+0.044	-0.098	-0.019	+0.014	+0.010
53604100	D234	245,084.938	7,459,401.068	551.438	978,719.881	+13.655
53604100	D236	245,084.979	7,459,400.966	551.453	978,719.897	+13.674
		-0.041	+0.102	-0.015	-0.016	-0.019
53604120	D234	245,204.748	7,459,562.076	551.379	978,719.697	+13.554
53604120	D236	245,204.788	7,459,561.963	551.393	978,719.709	+13.569
		-0.040	+0.113	-0.014	-0.012	-0.015
53604140	D234	245,324.074	7,459,721.905	551.343	978,719.523	+13.467
53604140	D237	245,324.121	7,459,721.835	551.356	978,719.474	+13.421
		-0.047	+0.070	-0.013	+0.049	+0.046
53804040	D234	245,558.241	7,458,270.153	551.137	978,722.084	+15.132
53804040	D239	245,558.355	7,458,270.123	551.148	978,722.037	+15.087
		-0.114	+0.030	-0.011	+0.047	+0.045
54004060	D234	247,414.821	7,458,575.680	551.081	978,721.637	+14.849
54004060	D235	247,414.865	7,458,575.749	551.088	978,721.676	+14.889
		-0.044	-0.069	-0.007	-0.039	-0.040
54004080	D234	247,534.334	7,458,730.540	552.754	978,721.084	+14.714
54004080	D235	247,534.398	7,458,730.527	552.760	978,721.116	+14.747
		-0.064	+0.013	-0.006	-0.032	-0.033
54204060	D234	248,168.966	7,457,534.038	551.144	978,724.354	+16.962
54204060	D239	248,168.863	7,457,533.808	551.159	978,724.337	+16.948
		+0.103	+0.230	-0.015	+0.017	+0.014
52804120	D235	241,538.611	7,460,947.751	551.500	978,715.150	+9.857
52804120	D236	241,538.687	7,460,947.773	551.497	978,715.139	+9.846
		-0.076	-0.022	+0.003	+0.011	+0.011
52804140	D235	241,654.087	7,461,111.436	551.488	978,714.865	+9.666
52804140	D236	241,654.162	7,461,111.500	551.482	978,714.819	+9.619
		-0.075	-0.064	+0.006	+0.046	+0.047
52804260	D235	242,345.334	7,462,092.767	551.449	978,712.971	+8.338
52804260	D239	242,345.456	7,462,092.806	551.456	978,712.994	+8.363
		-0.122	-0.039	-0.007	-0.023	-0.025
52204140	D236	239,310.390	7,463,751.836	551.810	978,707.209	+3.630
52204140	D237	239,310.268	7,463,751.793	551.770	978,707.173	+3.586
		+0.122	+0.043	+0.040	+0.036	+0.044

52404200	D236	239,696.093	7,462,339.647	551.700	978,711.392	+6.962
52404200	D238	239,696.253	7,462,339.644	551.681	978,711.436	+7.002
		-0.160	+0.003	+0.019	-0.044	-0.040
52604140	D236	240,153.292	7,460,976.261	551.716	978,715.328	+10.099
52604140	D237	240,153.282	7,460,976.272	551.716	978,715.281	+10.052
		+0.010	-0.011	+0.000	+0.047	+0.047
52604260	D236	240,843.373	7,461,958.296	551.572	978,712.387	+7.704
52604260	D237	240,843.306	7,461,958.389	551.614	978,712.426	+7.751
		+0.067	-0.093	-0.042	-0.039	-0.047
51204520	D237	237,743.930	7,469,657.865	552.412	978,694.784	-5.224
51204520	D238	237,743.883	7,469,657.983	552.347	978,694.760	-5.261
		+0.047	-0.118	+0.065	+0.024	+0.037
51604000	D237	236,291.561	7,465,368.303	551.989	978,702.341	-0.246
51604000	D238	236,291.605	7,465,368.302	551.959	978,702.362	-0.231
		-0.044	+0.001	+0.030	-0.021	-0.015
51604040	D237	236,523.907	7,465,694.480	552.021	978,701.499	-0.892
51604040	D238	236,523.782	7,465,694.396	552.001	978,701.541	-0.854
		+0.125	+0.084	+0.020	-0.042	-0.038
51804000	D237	236,969.295	7,464,360.984	552.291	978,705.326	+2.206
51804000	D238	236,969.271	7,464,361.091	552.228	978,705.384	+2.252
		+0.024	-0.107	+0.063	-0.058	-0.046
52004020	D237	237,862.135	7,463,617.724	551.834	978,707.185	+3.537
52004020	D239	237,862.295	7,463,617.706	551.804	978,707.239	+3.586
		-0.160	+0.018	+0.030	-0.054	-0.049
51004140	D238	234,431.730	7,466,409.318	552.101	978,699.578	-2.371
51004140	D239	234,431.809	7,466,409.305	552.121	978,699.561	-2.385
		-0.079	+0.013	-0.020	+0.017	+0.014
51204040	D238	235,056.504	7,465,661.890	552.115	978,701.396	-0.990
51204040	D239	235,056.433	7,465,661.888	552.135	978,701.404	-0.978
		+0.071	+0.002	-0.020	-0.008	-0.012
50404020	D239	231,464.176	7,469,069.764	552.012	978,692.453	-7.949
50404020	D240	231,464.025	7,469,069.753	552.021	978,692.408	-7.992
		+0.151	+0.011	-0.009	+0.045	+0.043
50404040	D239	231,583.490	7,469,229.701	551.946	978,692.287	-8.036
50404040	D240	231,583.476	7,469,229.534	551.975	978,692.245	-8.072
		+0.014	+0.167	-0.029	+0.042	+0.036
50604020	D239	232,371.903	7,467,850.473	553.403	978,695.084	-5.761
50604020	D240	232,371.834	7,467,850.539	553.385	978,695.136	-5.712
		+0.069	-0.066	+0.018	-0.052	-0.049
50604040	D239	232,488.587	7,468,012.179	552.026	978,694.988	-6.032
50604040	D240	232,488.857	7,468,012.580	552.001	978,695.036	-5.989
		-0.270	-0.401	+0.025	-0.048	-0.043
50204060	D240	230,333.376	7,469,351.317	554.746	978,691.106	-8.593
50204060	D241	230,333.329	7,469,351.206	554.741	978,691.097	-8.603

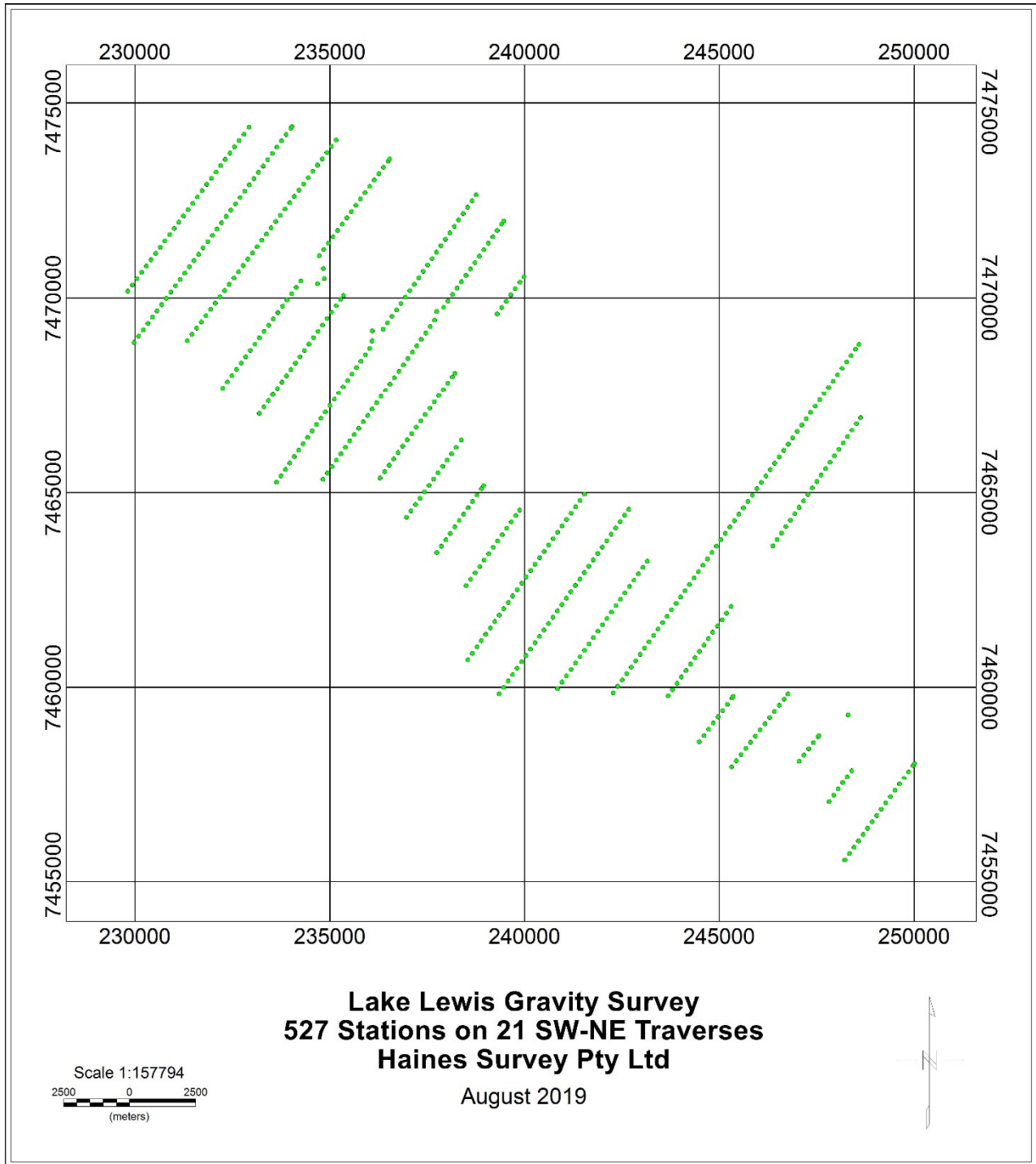
		+0.047	+0.111	+0.005	+0.009	+0.010
50204080	D240	230,448.872	7,469,510.529	552.198	978,691.214	-8.890
50204080	D241	230,448.854	7,469,510.366	552.187	978,691.204	-8.903
		+0.018	+0.163	+0.011	+0.010	+0.013
50204660	D240	233,880.915	7,474,188.912	552.013	978,682.237	-15.202
50204660	D241	233,880.914	7,474,188.912	551.996	978,682.287	-15.156
		+0.001	+0.000	+0.017	-0.050	-0.046
50204680	D240	233,999.538	7,474,350.771	552.002	978,681.558	-15.790
50204680	D241	233,999.526	7,474,350.580	551.997	978,681.603	-15.746
		+0.012	+0.191	+0.005	-0.045	-0.044

**Plots**

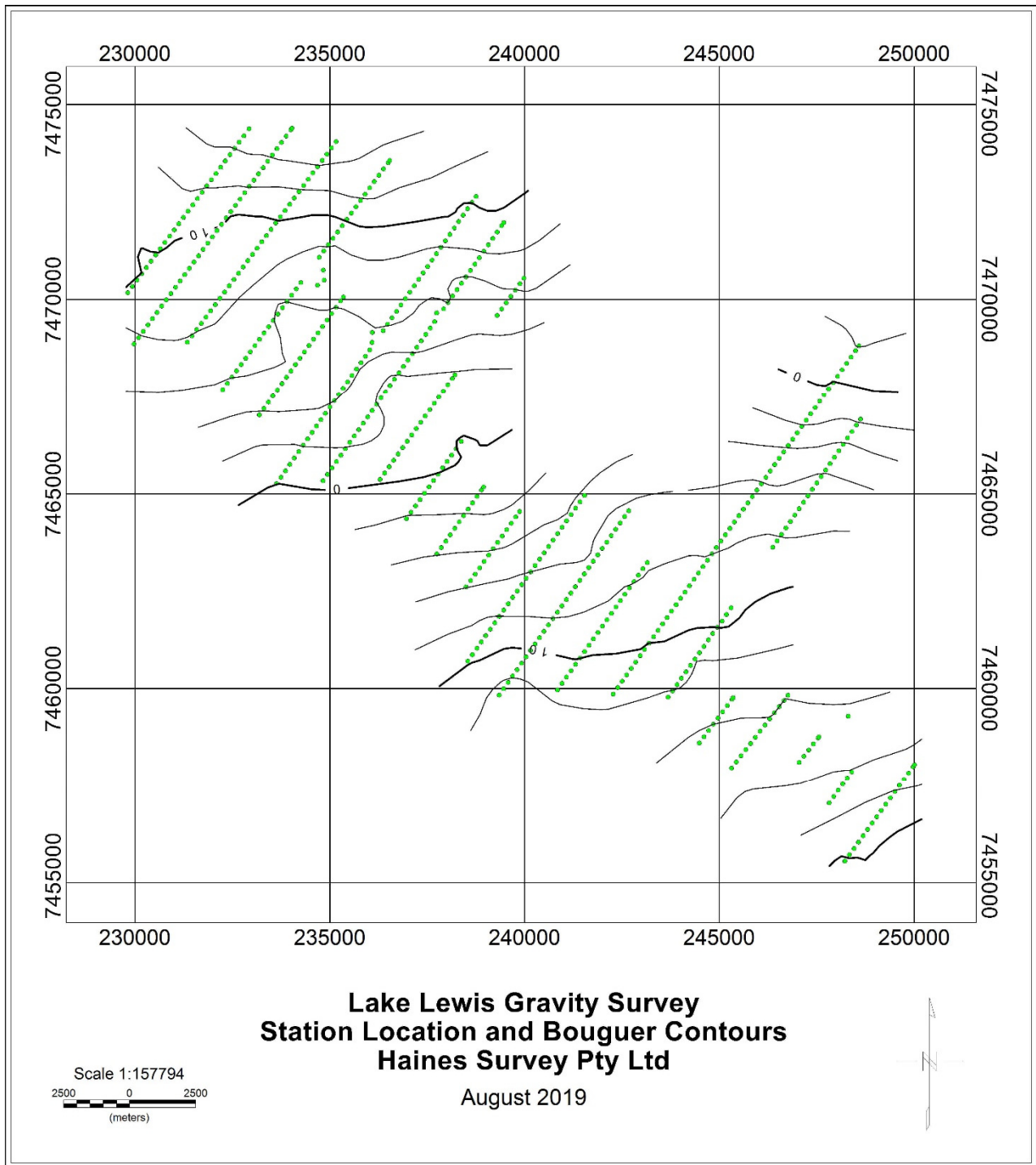
Lake Lewis Station Locations	16
Lake Lewis Observed Stations and Bouguer Anomaly Contours	17
Lake Lewis Bouguer Anomaly Contours and Zoned Image	18

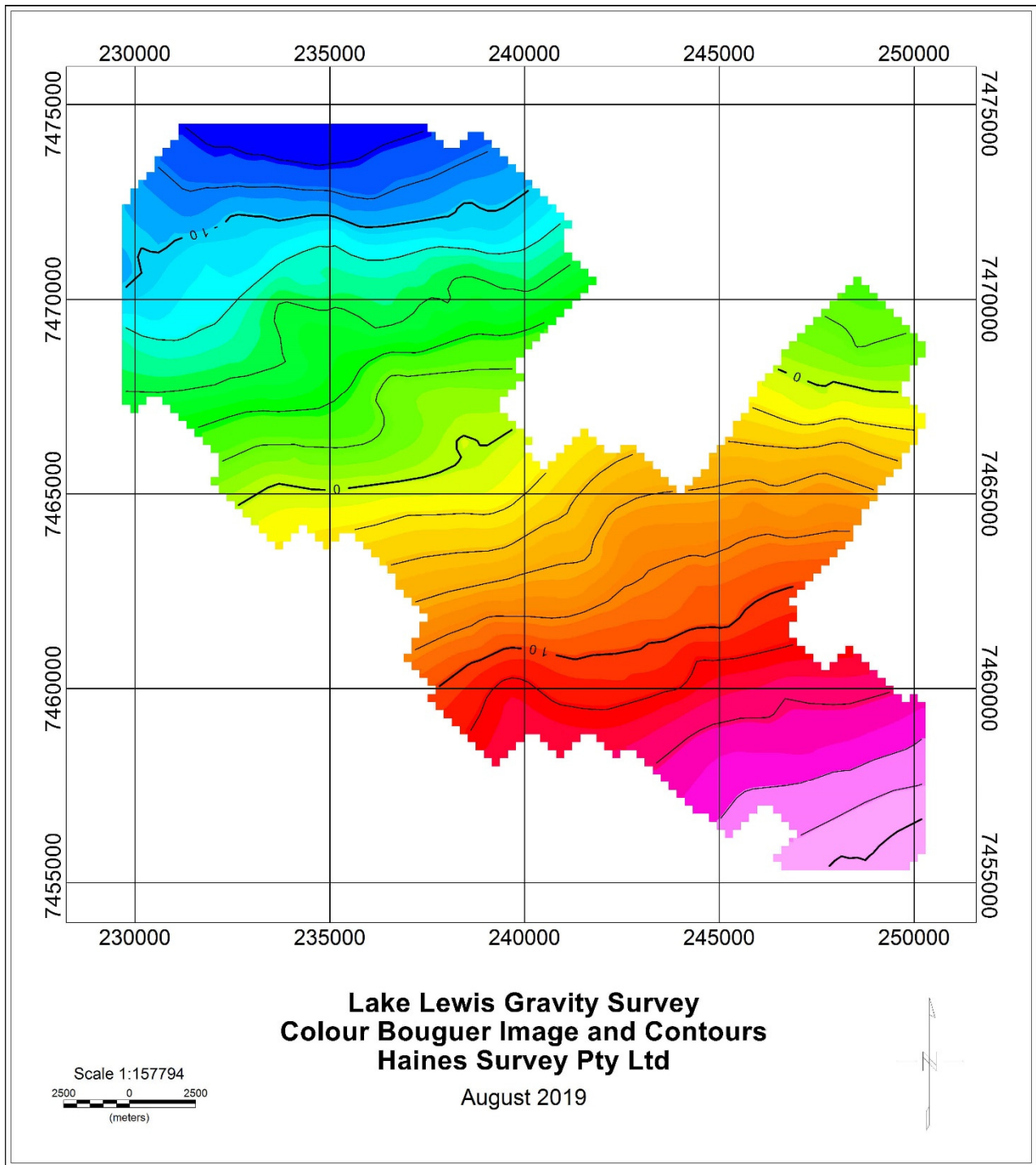
**Processed Results**

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### Lake Lewis Gravity Processing Results

/	COORDS		GRID		drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
/	E	N	x	y		meter	mgal		corr'n	corr'n	anom	(AHD)
/D234												
/	248310.2	7459288.4	0	901	+0.000	3677.393	978718.243	-99.521	179.751	-65.939	14.291	563.457
/	248310.2	7459288.4	0	901	+0.000	3677.393	978718.243	-99.521	179.751	-65.939	14.291	563.457
/	248310.2	7459288.4	0	901	+0.321	3677.393	978718.243	-99.521	179.751	-65.939	14.291	563.457
/	248310.2	7459288.4	0	901	+0.000	3677.072	978718.243	-99.521	179.751	-65.939	14.291	563.457
	242274.5	7459857.4	5300	4000	+0.279	3674.832	978715.682	-101.689	178.507	-65.484	11.335	559.627
	242392.4	7460024.2	5300	4020	+0.282	3675.154	978716.004	-101.270	177.687	-65.183	11.234	556.962
	242505.3	7460185.8	5300	4040	+0.285	3673.580	978714.430	-102.751	179.312	-65.778	10.783	562.223
	242620.2	7460348.6	5300	4060	+0.287	3674.266	978715.116	-101.971	178.121	-65.342	10.808	558.357
	242740.4	7460513.2	5300	4080	+0.290	3674.396	978715.246	-101.746	177.672	-65.178	10.749	556.896
	242851.2	7460674.9	5300	4100	+0.293	3673.993	978714.843	-102.055	177.777	-65.216	10.506	557.230
	242969.2	7460842.5	5300	4120	+0.295	3673.249	978714.099	-102.703	178.127	-65.344	10.080	558.355
	243079.0	7461003.1	5300	4140	+0.298	3674.346	978715.196	-101.512	176.331	-64.687	10.132	552.531
	243195.3	7461164.2	5300	4160	+0.299	3674.387	978715.237	-101.378	175.977	-64.557	10.042	551.378
	243312.2	7461330.1	5300	4180	+0.302	3674.029	978714.879	-101.640	176.079	-64.594	9.845	551.702
	243684.2	7459778.5	5340	4000	+0.271	3676.539	978717.389	-100.042	177.570	-65.141	12.388	556.545
	243799.0	7459936.0	5340	4020	+0.268	3675.634	978716.484	-100.856	178.276	-65.399	12.021	558.825
	243915.4	7460100.1	5340	4040	+0.264	3675.087	978715.937	-101.308	178.479	-65.473	11.697	559.474
	244027.5	7460263.3	5340	4060	+0.261	3675.461	978716.311	-100.839	177.667	-65.176	11.652	556.837
	244144.3	7460428.2	5340	4080	+0.258	3676.421	978717.271	-99.784	176.148	-64.620	11.745	551.909
	244260.2	7460593.0	5340	4100	+0.254	3676.481	978717.331	-99.629	175.986	-64.560	11.797	551.378
	244375.6	7460755.4	5340	4120	+0.252	3676.446	978717.296	-99.570	176.137	-64.616	11.952	551.860
	244491.1	7460919.5	5340	4140	+0.249	3675.602	978716.452	-100.319	177.063	-64.955	11.789	554.855
	244605.3	7461081.2	5340	4160	+0.246	3674.865	978715.715	-100.963	177.400	-65.078	11.359	555.940
	244720.0	7461248.8	5340	4180	+0.244	3672.581	978713.431	-103.151	179.664	-65.907	10.606	563.269
	244831.0	7461410.9	5340	4200	+0.241	3672.381	978713.231	-103.257	179.279	-65.766	10.256	562.017
	244948.4	7461571.0	5340	4220	+0.238	3671.576	978712.426	-103.970	179.850	-65.975	9.905	563.858
	245069.8	7461730.0	5340	4240	+0.236	3672.131	978712.981	-103.323	178.768	-65.579	9.866	560.346
	245181.7	7461899.2	5340	4260	+0.232	3670.820	978711.670	-104.536	179.954	-66.013	9.404	564.185
	245301.6	7462070.7	5340	4280	+0.229	3671.991	978712.841	-103.266	178.398	-65.443	9.688	559.135
	244485.5	7458600.6	5360	4000	+0.195	3679.776	978720.626	-97.501	176.702	-64.823	14.378	553.728
	244606.7	7458759.7	5360	4020	+0.198	3679.656	978720.506	-97.529	176.538	-64.762	14.246	553.188
	244725.4	7458920.7	5360	4040	+0.200	3679.733	978720.583	-97.359	176.066	-64.590	14.118	551.653
	244845.8	7459081.1	5360	4060	+0.202	3679.525	978720.375	-97.475	176.059	-64.587	13.998	551.623
	244965.7	7459241.6	5360	4080	+0.205	3679.263	978720.113	-97.644	176.027	-64.575	13.808	551.510
	245084.9	7459401.1	5360	4100	+0.207	3679.031	978719.881	-97.784	176.007	-64.568	13.655	551.438
	245204.7	7459562.1	5360	4120	+0.209	3678.847	978719.697	-97.875	175.991	-64.562	13.554	551.379
	245324.1	7459721.9	5360	4140	+0.212	3678.673	978719.523	-97.956	175.983	-64.559	13.467	551.343
	245354.9	7459763.7	5360	4160	+0.214	3678.592	978719.442	-98.013	175.983	-64.559	13.410	551.342
	245313.3	7457953.8	5380	4000	+0.174	3681.822	978722.672	-95.842	175.933	-64.541	15.551	551.221
	245435.8	7458111.5	5380	4020	+0.171	3681.524	978722.374	-96.049	175.910	-64.532	15.329	551.137
	245558.2	7458270.2	5380	4040	+0.168	3681.234	978722.084	-96.247	175.912	-64.533	15.132	551.137
	245680.6	7458428.4	5380	4060	+0.166	3680.921	978721.771	-96.469	175.936	-64.542	14.926	551.206
	245803.0	7458586.3	5380	4080	+0.163	3680.625	978721.475	-96.673	175.949	-64.547	14.729	551.243
	245925.6	7458744.7	5380	4100	+0.161	3680.379	978721.229	-96.828	175.919	-64.536	14.556	551.137
	246047.7	7458902.1	5380	4120	+0.158	3680.128	978720.978	-96.988	175.883	-64.522	14.372	551.011
	246171.2	7459060.6	5380	4140	+0.156	3679.822	978720.672	-97.203	175.876	-64.520	14.153	550.980
	246292.9	7459219.3	5380	4160	+0.154	3679.599	978720.449	-97.334	175.878	-64.521	14.023	550.979
	246415.6	7459377.6	5380	4180	+0.151	3679.469	978720.319	-97.373	175.878	-64.521	13.984	550.971
	246538.1	7459535.4	5380	4200	+0.149	3679.397	978720.247	-97.354	175.883	-64.522	14.007	550.980
	246660.6	7459693.7	5380	4220	+0.146	3679.301	978720.151	-97.358	175.880	-64.521	14.000	550.965
	246762.9	7459826.7	5380	4240	+0.144	3679.226	978720.076	-97.356	175.897	-64.528	14.013	551.014
	247047.9	7458101.4	5400	4000	+0.139	3681.355	978722.205	-96.240	176.013	-64.570	15.203	551.414
	247171.5	7458259.9	5400	4020	+0.136	3681.169	978722.019	-96.334	175.940	-64.543	15.063	551.168
	247295.3	7458418.4	5400	4040	+0.134	3680.239	978721.089	-97.173	176.879	-64.887	14.819	554.203
	247414.8	7458575.7	5400	4060	+0.131	3680.787	978721.637	-96.534	175.917	-64.535	14.849	551.081
	247534.3	7458730.5	5400	4080	+0.129	3680.234	978721.084	-96.997	176.436	-64.725	14.714	552.754
	247557.9	7458756.5	5400	4100	+0.127	3679.902	978720.752	-97.314	176.790	-64.855	14.621	553.901
	247820.9	7457044.7	5420	4000	+0.069	3683.234	978724.084	-94.987	176.979	-64.924	17.069	554.542
	247936.8	7457207.1	5420	4020	+0.066	3683.262	978724.112	-94.865	176.670	-64.811	16.994	553.531
	248052.7	7457370.7	5420	4040	+0.064	3683.602	978724.452	-94.430	175.979	-64.558	16.992	551.286
	248169.0	7457534.0	5420	4060	+0.061	3683.504	978724.354	-94.433	175.938	-64.543	16.962	551.144
	248284.8	7457696.1	5420	4080	+0.057	3683.058	978723.908	-94.786	176.141	-64.617	16.738	551.794
	248399.9	7457856.3	5420	4100	+0.053	3680.315	978721.165	-97.437	179.229	-65.748	16.044	561.791
	248223.7	7455552.9	5440	4000	+0.076	3687.250	978728.100	-91.848	176.743	-64.837	20.057	553.801
	248338.5	7455714.7	5440	4020	+0.078	3687.155	978728.005	-91.850	176.651	-64.804	19.998	553.496
	248457.3	7455875.4	5440	4040	+0.081	3687.234	978728.084	-91.677	176.417	-64.718	20.022	552.728
	248571.0	7456037.2	5440	4060	+0.084	3686.763	978727.613	-92.055	176.651	-64.804	19.793	553.477
	248691.2	7456201.7	5440	4080	+0.086	3686.550	978727.400	-92.173	176.483	-64.742	19.568	552.923
	248807.1	7456363.6	5440	4100	+0.089	3686.532	978727.382	-92.097	176.052	-64.585	19.371	551.520
	248924.5	7456526.6	5440	4120	+0.091	3686.171	978727.021	-92.364	176.048	-64.583	19.102	551.499
	249041.1	7456688.1	5440	4140	+0.094	3685.836	978726.686	-92.605	176.049	-64.583	18.860	551.492
	249155.4	7456849.2	5440	4160	+0.096	3685.092	978725.942	-93.256	176.553	-64.768	18.529	553.117
	249274.2	7457012.5	5440	4180	+0.099	3685.275	978726.125	-92.979	176.131			

/ 248310.2	7459288.4	0	901	+0.018	3677.205	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.187	978718.243	-99.521	179.751	-65.939	14.291	563.457
241538.6	7460947.8	5280	4120	+0.017	3674.112	978715.150	-101.575	175.996	-64.564	9.857	551.500
241654.1	7461111.4	5280	4140	+0.017	3673.827	978714.865	-101.766	175.995	-64.563	9.666	551.488
241769.2	7461275.1	5280	4160	+0.016	3673.543	978714.581	-101.955	175.996	-64.564	9.477	551.487
241884.6	7461438.6	5280	4180	+0.016	3673.216	978714.254	-102.188	175.996	-64.564	9.244	551.479
241999.6	7461602.2	5280	4200	+0.016	3672.844	978713.882	-102.465	175.997	-64.564	8.968	551.476
242114.9	7461766.0	5280	4220	+0.016	3672.543	978713.581	-102.672	175.985	-64.560	8.753	551.430
242230.1	7461929.2	5280	4240	+0.016	3672.210	978713.248	-102.910	175.987	-64.560	8.516	551.431
242345.3	7462092.8	5280	4260	+0.016	3671.933	978712.971	-103.093	175.994	-64.563	8.338	551.449
242461.0	7462256.5	5280	4280	+0.015	3671.753	978712.791	-103.178	175.992	-64.563	8.252	551.439
242575.9	7462419.9	5280	4300	+0.015	3671.654	978712.692	-103.183	175.992	-64.562	8.246	551.430
242691.4	7462583.5	5280	4320	+0.015	3671.367	978712.405	-103.376	175.990	-64.562	8.053	551.419
242806.6	7462747.0	5280	4340	+0.015	3671.126	978712.164	-103.522	175.994	-64.563	7.909	551.426
242921.8	7462910.3	5280	4360	+0.015	3670.997	978712.035	-103.557	175.990	-64.562	7.872	551.409
243037.4	7463074.3	5280	4380	+0.015	3670.958	978711.996	-103.501	176.003	-64.566	7.935	551.445
243150.7	7463234.3	5280	4400	+0.015	3670.771	978711.809	-103.596	176.071	-64.591	7.884	551.659
243195.4	7461164.2	5300	4160	+0.002	3674.160	978715.198	-101.417	175.976	-64.557	10.003	551.376
243312.3	7461330.1	5300	4180	+0.002	3673.804	978714.842	-101.677	176.080	-64.595	9.808	551.705
243427.2	7461495.5	5300	4200	+0.002	3672.803	978713.841	-102.583	177.046	-64.948	9.514	554.828
243543.6	7461657.3	5300	4220	+0.002	3671.876	978712.914	-103.417	177.979	-65.290	9.272	557.846
243657.1	7461821.2	5300	4240	+0.003	3671.461	978712.499	-103.737	178.209	-65.374	9.098	558.586
243771.4	7461984.4	5300	4260	+0.003	3671.684	978712.722	-103.420	177.565	-65.139	9.007	556.493
243890.9	7462150.5	5300	4280	+0.003	3671.904	978712.942	-103.104	177.130	-64.979	9.047	555.078
244003.8	7462316.9	5300	4300	+0.003	3672.078	978713.116	-102.834	176.620	-64.792	8.994	553.417
244118.3	7462475.0	5300	4320	+0.003	3672.363	978713.401	-102.457	176.032	-64.577	8.998	551.507
244233.8	7462638.9	5300	4340	+0.003	3672.226	978713.264	-102.500	176.003	-64.566	8.937	551.407
244349.1	7462802.7	5300	4360	+0.004	3672.155	978713.193	-102.476	175.981	-64.558	8.947	551.331
244464.4	7462966.2	5300	4380	+0.004	3672.003	978713.041	-102.534	175.969	-64.554	8.881	551.287
244579.8	7463129.8	5300	4400	+0.004	3671.431	978712.469	-103.011	175.975	-64.556	8.408	551.300
244694.8	7463293.3	5300	4420	+0.004	3670.980	978712.018	-103.368	175.971	-64.555	8.048	551.281
244809.5	7463456.5	5300	4440	+0.004	3670.812	978711.850	-103.442	175.972	-64.555	7.975	551.281
244925.1	7463619.9	5300	4460	+0.004	3670.590	978711.628	-103.569	175.971	-64.555	7.847	551.270
245040.5	7463784.0	5300	4480	+0.004	3670.349	978711.387	-103.716	175.972	-64.555	7.701	551.269
245156.0	7463947.4	5300	4500	+0.005	3670.094	978711.132	-103.876	176.015	-64.571	7.568	551.404
245271.3	7464111.1	5300	4520	+0.005	3669.945	978710.983	-103.931	176.015	-64.571	7.513	551.399
245386.4	7464274.7	5300	4540	+0.005	3669.465	978710.503	-104.316	176.015	-64.571	7.128	551.397
245501.4	7464438.2	5300	4560	+0.005	3669.215	978710.253	-104.472	175.992	-64.562	6.958	551.317
245617.0	7464602.0	5300	4580	+0.005	3669.231	978710.269	-104.362	175.983	-64.559	7.062	551.282
245732.4	7464765.7	5300	4600	+0.005	3669.244	978710.282	-104.254	175.989	-64.561	7.174	551.299
245847.1	7464929.1	5300	4620	+0.006	3668.920	978709.958	-104.484	175.974	-64.556	6.935	551.246
245962.6	7465092.4	5300	4640	+0.006	3668.447	978709.485	-104.862	175.963	-64.552	6.549	551.206
246077.8	7465256.0	5300	4660	+0.006	3667.960	978708.998	-105.255	175.960	-64.551	6.154	551.189
246193.0	7465420.2	5300	4680	+0.006	3667.249	978708.287	-105.871	175.955	-64.549	5.535	551.171
246308.0	7465583.0	5300	4700	+0.006	3666.740	978707.778	-106.286	175.947	-64.546	5.115	551.141
246423.2	7465747.0	5300	4720	+0.006	3666.411	978707.449	-106.521	175.944	-64.545	4.878	551.127
246537.6	7465910.8	5300	4740	+0.006	3666.106	978707.144	-106.731	175.933	-64.541	4.661	551.088
246652.6	7466073.0	5300	4760	+0.007	3665.767	978706.805	-106.977	175.932	-64.541	4.415	551.084
246768.2	7466237.5	5300	4780	+0.007	3665.150	978706.188	-107.499	175.929	-64.539	3.891	551.070
246884.1	7466401.2	5300	4800	+0.007	3664.381	978705.419	-108.173	175.929	-64.539	3.217	551.066
246999.9	7466564.4	5300	4820	+0.007	3663.682	978704.720	-108.778	175.931	-64.540	2.613	551.069
247116.0	7466729.9	5300	4840	+0.007	3663.122	978704.160	-109.243	175.930	-64.540	2.147	551.061
247229.9	7466891.8	5300	4860	+0.007	3662.427	978703.465	-109.845	175.941	-64.544	1.553	551.094
247345.4	7467054.9	5300	4880	+0.007	3661.844	978702.882	-110.333	175.938	-64.543	1.062	551.081
247459.6	7467218.0	5300	4900	+0.008	3661.421	978702.459	-110.662	175.940	-64.544	0.735	551.086
247575.8	7467382.3	5300	4920	+0.008	3661.035	978702.073	-110.954	175.959	-64.550	0.455	551.142
247691.3	7467546.2	5300	4940	+0.008	3660.531	978701.569	-111.363	175.958	-64.550	0.045	551.138
247806.1	7467709.4	5300	4960	+0.008	3660.461	978701.499	-111.339	175.986	-64.560	0.087	551.227
247922.2	7467872.1	5300	4980	+0.008	3660.450	978701.488	-111.256	176.011	-64.569	0.185	551.305
248037.6	7468035.7	5300	5000	+0.010	3659.648	978700.686	-111.964	176.095	-64.600	-0.469	551.573
248152.0	7468199.9	5300	5020	+0.010	3659.240	978700.278	-112.277	176.119	-64.609	-0.767	551.652
248266.3	7468362.9	5300	5040	+0.010	3658.699	978699.737	-112.724	176.285	-64.670	-1.109	552.185
248382.6	7468526.7	5300	5060	+0.010	3658.403	978699.441	-112.926	176.144	-64.618	-1.400	551.725
248497.9	7468692.1	5300	5080	+0.010	3657.800	978698.838	-113.434	176.220	-64.646	-1.859	551.971
248582.1	7468812.8	5300	5100	+0.011	3657.434	978698.472	-113.730	176.331	-64.687	-2.086	552.329
246371.3	7463627.1	5320	4000	+0.014	3671.306	978712.344	-102.863	176.000	-64.565	8.571	551.316
246484.5	7463792.1	5320	4020	+0.014	3670.882	978711.920	-103.192	175.991	-64.562	8.237	551.283
246597.4	7463956.4	5320	4040	+0.014	3670.398	978711.436	-103.581	175.989	-64.561	7.847	551.272
246710.2	7464122.1	5320	4060	+0.014	3670.004	978711.042	-103.880	175.983	-64.559	7.544	551.249
246823.5	7464287.1	5320	4080	+0.013	3669.705	978710.743	-104.083	175.970	-64.554	7.332	551.202
246936.3	7464452.4	5320	4100	+0.013	3669.157	978710.195	-104.536	175.967	-64.553	6.878	551.188
247049.2	7464616.6	5320	4120	+0.013	3668.938	978709.976	-104.660	175.947	-64.546	6.741	551.118
247162.6	7464782.6	5320	4140	+0.013	3668.948	978709.986	-104.554	175.937	-64.542	6.840	551.082
247275.8	7464947.3	5320	4160	+0.013	3668.810	978709.848	-104.597	175.937	-64.542	6.798	551.080
247388.7	7465112.5	5320	4180	+0.013	3668.503	978709.541	-104.809	175.957	-64.550	6.599	551.140
247502.0	7465278.0	5320	4200	+0.013	3668.244	978709.282	-104.972	175.985	-64.560	6.453	551.227
247614.8	7465442.8	5320	4220	+0.012	3667.963	978709.001	-105.158	176.019	-64.572	6.289	551.332
247727.7	7465607.6	5320	4240	+0.012	3667.358	978708.396	-105.668	176.033	-64.577	5.787	551.373
247840.9	7465772.6	5320	4260	+0.012	3666.760	978707.798	-106.171	176.029	-64.576	5.282	551.357
247953.6	7465937.8	5320	4280	+0.012	3666.293	978707.331	-106.542	176.005	-64.567	4.895	551.276
248067.5	7466102.5	5320	4300	+0.012	3665.842	978706.880	-106.898	176.011	-64.569	4.543	551.293
248180.2	7466268.2	5320	4320	+0.012	3665.328	978706.366	-107.317	176.009	-64.569	4.124	551.284
248293.0	7466433.1	5320	4340	+0.012	3664.806	978705.844	-107.744	176.020	-64.573	3.704	551.317
248405.2	7466596.3	5320	4360	+0.011	3664.185	978705.223	-108.270	176.035	-64.578	3.186	551.360
248519.1	7466763.2	5320	4380	+0.011	3663.196	978704					

/ 248310.2	7459288.4	0	901	+0.000	3677.604	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.604	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.280	3677.604	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.324	978718.243	-99.521	179.751	-65.939	14.291	563.457
238499.1	7462609.3	5220	4000	+0.241	3669.263	978709.902	-105.821	176.504	-64.750	5.933	553.226
238616.8	7462771.6	5220	4020	+0.243	3669.188	978709.827	-105.803	176.068	-64.590	5.675	551.809
238732.2	7462934.7	5220	4040	+0.245	3668.787	978709.426	-106.110	176.038	-64.579	5.349	551.704
238847.5	7463098.2	5220	4060	+0.249	3668.372	978709.011	-106.430	176.047	-64.583	5.034	551.728
238963.5	7463261.7	5220	4080	+0.251	3667.877	978708.516	-106.831	176.067	-64.590	4.646	551.786
239079.2	7463425.1	5220	4100	+0.253	3667.344	978707.983	-107.270	176.083	-64.596	4.218	551.832
239194.6	7463588.2	5220	4120	+0.256	3666.937	978707.576	-107.583	176.086	-64.597	3.906	551.836
239310.4	7463751.8	5220	4140	+0.260	3666.570	978707.209	-107.855	176.079	-64.594	3.630	551.810
238543.2	7460702.9	5240	4000	+0.234	3672.816	978713.455	-103.384	178.780	-65.584	9.813	560.628
238660.0	7460868.6	5240	4020	+0.231	3672.601	978713.240	-103.503	178.611	-65.522	9.587	560.074
238777.2	7461034.0	5240	4040	+0.229	3671.198	978711.837	-104.811	179.818	-65.964	9.044	563.978
238889.4	7461194.6	5240	4060	+0.227	3671.717	978712.356	-104.199	178.595	-65.516	8.880	560.007
239003.4	7461357.4	5240	4080	+0.224	3672.071	978712.710	-103.751	177.747	-65.205	8.791	557.254
239120.2	7461521.2	5240	4100	+0.222	3672.281	978712.920	-103.446	177.172	-64.995	8.732	555.383
239235.4	7461685.4	5240	4120	+0.220	3672.559	978713.198	-103.073	176.249	-64.656	8.520	552.385
239350.8	7461849.1	5240	4140	+0.216	3672.044	978712.683	-103.493	176.120	-64.609	8.017	551.961
239465.9	7462012.6	5240	4160	+0.214	3671.473	978712.112	-103.970	176.077	-64.594	7.514	551.817
239581.2	7462176.2	5240	4180	+0.212	3671.021	978711.660	-104.327	176.060	-64.587	7.145	551.757
239696.1	7462339.6	5240	4200	+0.210	3670.753	978711.392	-104.501	176.044	-64.582	6.962	551.700
239811.6	7462503.3	5240	4220	+0.208	3670.463	978711.102	-104.697	176.063	-64.588	6.778	551.753
239926.4	7462666.6	5240	4240	+0.205	3670.077	978710.716	-104.988	176.077	-64.594	6.495	551.794
240041.8	7462830.2	5240	4260	+0.203	3669.756	978710.395	-105.215	176.075	-64.593	6.267	551.781
240157.2	7462993.9	5240	4280	+0.199	3669.393	978710.032	-105.483	176.073	-64.592	5.997	551.768
240272.2	7463157.5	5240	4300	+0.196	3668.991	978709.630	-105.791	176.065	-64.589	5.685	551.739
240387.2	7463321.5	5240	4320	+0.195	3668.819	978709.458	-105.868	176.070	-64.591	5.610	551.747
240502.5	7463484.5	5240	4340	+0.193	3668.623	978709.262	-105.970	176.064	-64.589	5.505	551.723
240617.4	7463647.8	5240	4360	+0.191	3668.326	978708.965	-106.173	176.084	-64.596	5.315	551.782
240732.6	7463811.9	5240	4380	+0.189	3668.124	978708.763	-106.280	176.080	-64.595	5.205	551.767
240848.5	7463975.5	5240	4400	+0.186	3667.768	978708.407	-106.542	176.067	-64.590	4.935	551.717
240963.4	7464139.1	5240	4420	+0.182	3667.204	978707.843	-107.012	176.063	-64.588	4.463	551.700
241078.7	7464302.8	5240	4440	+0.180	3666.873	978707.512	-107.248	176.067	-64.590	4.229	551.709
241193.8	7464465.8	5240	4460	+0.178	3666.686	978707.325	-107.341	176.064	-64.589	4.134	551.695
241309.2	7464629.8	5240	4480	+0.176	3666.722	978707.361	-107.210	176.069	-64.591	4.268	551.704
241424.6	7464793.6	5240	4500	+0.174	3666.769	978707.408	-107.069	176.078	-64.594	4.415	551.730
241540.0	7464957.4	5240	4520	+0.172	3666.571	978707.210	-107.173	176.102	-64.603	4.327	551.803
239348.8	7459830.7	5260	4000	+0.092	3677.376	978718.015	-99.341	176.534	-64.761	12.432	553.335
239462.8	7459993.7	5260	4020	+0.095	3677.240	978717.879	-99.383	176.489	-64.745	12.362	553.185
239578.5	7460157.8	5260	4040	+0.097	3677.156	978717.795	-99.372	176.362	-64.698	12.292	552.765
239693.1	7460321.7	5260	4060	+0.099	3676.767	978717.406	-99.667	176.187	-64.634	11.887	552.192
239808.5	7460485.6	5260	4080	+0.101	3676.294	978716.933	-100.045	176.122	-64.610	11.467	551.974
239923.3	7460649.0	5260	4100	+0.103	3675.883	978716.522	-100.361	176.084	-64.596	11.127	551.845
240038.8	7460813.1	5260	4120	+0.105	3675.371	978716.010	-100.779	176.057	-64.586	10.692	551.752
240153.3	7460976.3	5260	4140	+0.107	3674.689	978715.328	-101.366	176.048	-64.583	10.099	551.716
240268.6	7461140.2	5260	4160	+0.111	3674.015	978714.654	-101.946	176.031	-64.577	9.509	551.653
240383.5	7461303.9	5260	4180	+0.113	3673.517	978714.156	-102.349	176.023	-64.574	9.100	551.622
240498.3	7461467.5	5260	4200	+0.115	3673.029	978713.668	-102.743	176.017	-64.572	8.703	551.594
240613.4	7461631.3	5260	4220	+0.117	3672.530	978713.169	-103.147	176.021	-64.573	8.301	551.600
240728.6	7461794.8	5260	4240	+0.121	3672.146	978712.785	-103.437	176.025	-64.574	8.014	551.608
240843.4	7461958.3	5260	4260	+0.123	3671.748	978712.387	-103.740	176.016	-64.571	7.704	551.572
240958.4	7462121.7	5260	4280	+0.127	3671.397	978712.036	-103.997	176.019	-64.572	7.450	551.578
241073.9	7462285.6	5260	4300	+0.131	3670.972	978711.611	-104.327	176.017	-64.572	7.118	551.564
241189.1	7462449.8	5260	4320	+0.133	3670.572	978711.211	-104.633	176.018	-64.572	6.814	551.563
241303.9	7462613.3	5260	4340	+0.135	3670.354	978710.993	-104.756	176.029	-64.576	6.697	551.591
241419.0	7462776.8	5260	4360	+0.137	3670.198	978710.837	-104.818	176.032	-64.577	6.637	551.597
241533.9	7462940.6	5260	4380	+0.139	3670.025	978710.664	-104.896	176.030	-64.576	6.557	551.584
241649.1	7463104.4	5260	4400	+0.141	3669.728	978710.367	-105.099	176.032	-64.577	6.356	551.584
241764.0	7463267.7	5260	4420	+0.143	3669.449	978710.088	-105.284	176.030	-64.576	6.170	551.571
241879.5	7463431.9	5260	4440	+0.144	3669.432	978710.071	-105.206	176.022	-64.573	6.243	551.542
241994.0	7463595.3	5260	4460	+0.148	3669.576	978710.215	-104.968	176.024	-64.574	6.482	551.542
242109.7	7463759.2	5260	4480	+0.150	3669.618	978710.257	-104.831	176.028	-64.576	6.622	551.551
242224.7	7463922.7	5260	4500	+0.152	3669.561	978710.200	-104.794	176.039	-64.580	6.666	551.581
242339.1	7464086.6	5260	4520	+0.154	3669.474	978710.113	-104.786	176.044	-64.581	6.677	551.593
242454.8	7464249.8	5260	4540	+0.158	3669.405	978710.044	-104.761	176.059	-64.587	6.711	551.635
242570.0	7464414.0	5260	4560	+0.164	3669.078	978709.717	-104.993	176.060	-64.587	6.480	551.637
242675.1	7464563.7	5260	4580	+0.166	3668.910	978709.549	-105.075	176.099	-64.602	6.423	551.756
240845.1	7459964.1	5280	4000	+0.085	3675.341	978715.980	-101.314	177.995	-65.296	11.385	558.016
240960.5	7460132.0	5280	4020	+0.082	3675.894	978716.533	-100.663	176.686	-64.816	11.206	553.767
241075.7	7460292.5	5280	4040	+0.080	3675.696	978716.335	-100.769	176.398	-64.711	10.918	552.828
241193.9	7460455.9	5280	4060	+0.078	3675.301	978715.940	-101.069	176.253	-64.658	10.526	552.351
241307.9	7460621.3	5280	4080	+0.074	3674.980	978715.619	-101.295	176.046	-64.582	10.169	551.673
241422.7	7460784.2	5280	4100	+0.072	3674.696	978715.335	-101.484	176.007	-64.568	9.955	551.541
241538.7	7460947.8	5280	4120	+0.070	3674.500	978715.139	-101.586	175.995	-64.564	9.846	551.497
241654.2	7461111.5	5280	4140	+0.068	3674.180	978714.819	-101.812	175.993	-64.563	9.619	551.482
245085.0	7459401.0	5360	4100	+0.273	3679.258	978719.897	-97.768	176.012	-64.570	13.674	551.453
245204.8	7459562.0	5360	4120	+0.271	3679.070	978719.709	-97.863	175.995	-64.564	13.569	551.393
/D237											
/ 248310.2	7459288.4	0	901	+0.000	3677.450	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.450	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.159	3677.450	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.291	978718.243	-99.521	179.751	-65.939	14.291	563.457
237743.9	7469657.9	5120	4520	+0.142	3653.991	978694.784	-116.818	176.252	-64.657	-5.224	552.412
237921.9	7469762.1	5120	4540								

238380.4	7470418.0	5120	4620	+0.136	3653.199	978693.992	-117.173	176.127	-64.612	-5.658	551.993
238496.2	7470581.3	5120	4640	+0.135	3652.775	978693.568	-117.503	176.156	-64.622	-5.970	552.085
238609.7	7470746.3	5120	4660	+0.134	3652.376	978693.169	-117.807	176.133	-64.614	-6.288	552.008
238724.5	7470910.1	5120	4680	+0.133	3652.019	978692.812	-118.070	176.148	-64.619	-6.541	552.056
238840.2	7471074.9	5120	4700	+0.132	3651.129	978691.922	-118.865	176.133	-64.614	-7.346	552.006
238954.7	7471238.6	5120	4720	+0.131	3650.202	978690.995	-119.698	176.126	-64.611	-8.183	551.983
239068.5	7471402.9	5120	4740	+0.129	3649.503	978690.296	-120.302	176.112	-64.606	-8.797	551.935
239183.5	7471566.2	5120	4760	+0.128	3648.883	978689.676	-120.828	176.102	-64.603	-9.329	551.901
239298.4	7471730.4	5120	4780	+0.127	3648.695	978689.488	-120.922	176.089	-64.598	-9.431	551.858
239413.3	7471893.9	5120	4800	+0.126	3648.444	978689.237	-121.079	176.108	-64.605	-9.575	551.919
239467.5	7471972.9	5120	4820	+0.125	3648.259	978689.052	-121.218	176.108	-64.605	-9.715	551.917
239295.9	7469594.3	5140	4000	+0.114	3654.017	978694.810	-116.845	176.109	-64.605	-5.341	551.903
239414.0	7469757.4	5140	4020	+0.115	3653.639	978694.432	-117.129	176.123	-64.610	-5.616	551.945
239530.2	7469919.1	5140	4040	+0.117	3653.346	978694.139	-117.329	176.106	-64.604	-5.827	551.889
239647.8	7470082.2	5140	4060	+0.118	3653.314	978694.107	-117.267	176.098	-64.601	-5.770	551.860
239763.2	7470243.6	5140	4080	+0.120	3653.037	978693.830	-117.451	176.103	-64.603	-5.951	551.877
239880.0	7470406.8	5140	4100	+0.121	3652.462	978693.255	-117.932	176.122	-64.610	-6.420	551.933
239822.5	7470550.1	5140	4120	+0.122	3651.975	978692.768	-118.336	176.098	-64.601	-6.839	551.855
236291.6	7465368.3	5160	4000	+0.089	3661.548	978702.341	-111.749	176.108	-64.605	-0.246	551.989
236408.2	7465532.0	5160	4020	+0.090	3661.074	978701.867	-112.128	176.107	-64.605	-0.626	551.983
236523.9	7465694.5	5160	4040	+0.091	3660.706	978701.499	-112.403	176.120	-64.609	-0.892	552.021
236639.2	7465858.0	5160	4060	+0.093	3660.525	978701.318	-112.489	176.124	-64.611	-0.976	552.029
236755.3	7466020.0	5160	4080	+0.094	3660.380	978701.173	-112.541	176.121	-64.610	-1.030	552.015
236871.5	7466184.2	5160	4100	+0.095	3660.122	978700.915	-112.704	176.116	-64.608	-1.196	551.995
236987.6	7466347.0	5160	4120	+0.096	3659.900	978700.693	-112.832	176.126	-64.612	-1.318	552.024
237103.2	7466509.7	5160	4140	+0.098	3659.775	978700.568	-112.864	176.127	-64.612	-1.349	552.021
237218.7	7466673.4	5160	4160	+0.099	3659.708	978700.501	-112.836	176.124	-64.611	-1.323	552.009
237335.7	7466836.6	5160	4180	+0.100	3659.723	978700.516	-112.727	176.118	-64.608	-1.218	551.984
237451.5	7466999.0	5160	4200	+0.102	3659.765	978700.558	-112.592	176.118	-64.609	-1.082	551.981
237567.8	7467161.9	5160	4220	+0.103	3659.873	978700.666	-112.390	176.118	-64.608	-0.881	551.976
237683.5	7467325.0	5160	4240	+0.104	3659.894	978700.687	-112.275	176.119	-64.609	-0.765	551.975
237799.6	7467488.8	5160	4260	+0.105	3659.654	978700.447	-112.421	176.135	-64.615	-0.900	552.026
237915.1	7467652.0	5160	4280	+0.107	3659.429	978700.222	-112.551	176.136	-64.615	-1.031	552.025
238031.6	7467814.8	5160	4300	+0.108	3659.137	978699.930	-112.750	176.145	-64.619	-1.223	552.052
238147.9	7467977.7	5160	4320	+0.110	3658.638	978699.431	-113.155	176.143	-64.618	-1.630	552.040
238212.9	7468069.4	5160	4340	+0.111	3658.319	978699.112	-113.421	176.135	-64.615	-1.901	552.012
236969.3	7464361.0	5180	4000	+0.082	3664.533	978705.326	-109.359	176.205	-64.641	2.206	552.291
237085.1	7464523.5	5180	4020	+0.081	3664.132	978704.925	-109.666	176.098	-64.601	1.831	551.939
237201.2	7464687.7	5180	4040	+0.079	3663.573	978704.366	-110.130	176.095	-64.600	1.365	551.922
237316.6	7464849.9	5180	4060	+0.078	3663.070	978703.863	-110.540	176.097	-64.601	0.957	551.926
237433.3	7465013.6	5180	4080	+0.077	3662.666	978703.459	-110.849	176.099	-64.602	0.648	551.927
237548.4	7465175.8	5180	4100	+0.076	3662.337	978703.130	-111.085	176.093	-64.599	0.409	551.901
237664.5	7465339.0	5180	4120	+0.074	3662.024	978702.817	-111.304	176.088	-64.597	0.187	551.881
237780.7	7465502.5	5180	4140	+0.073	3661.773	978702.566	-111.460	176.101	-64.602	0.038	551.919
237896.9	7465665.7	5180	4160	+0.072	3661.505	978702.298	-111.634	176.098	-64.601	-0.138	551.906
238011.5	7465827.8	5180	4180	+0.071	3661.406	978702.199	-111.640	176.090	-64.598	-0.148	551.875
238128.3	7465992.2	5180	4200	+0.070	3661.360	978702.153	-111.591	176.097	-64.601	-0.095	551.893
238244.1	7466154.5	5180	4220	+0.068	3661.345	978702.138	-111.513	176.113	-64.607	-0.006	551.942
238376.7	7466344.1	5180	4240	+0.066	3661.506	978702.299	-111.242	176.113	-64.607	0.264	551.937
237748.1	7463453.7	5200	4000	+0.025	3666.900	978707.693	-107.529	176.094	-64.600	3.965	551.913
237862.1	7463617.7	5200	4020	+0.027	3666.392	978707.185	-107.943	176.072	-64.592	3.537	551.834
237978.7	7463783.8	5200	4040	+0.031	3665.980	978706.773	-108.259	176.079	-64.594	3.226	551.853
238091.4	7463946.4	5200	4060	+0.032	3665.621	978706.414	-108.524	176.099	-64.602	2.973	551.913
238208.3	7464112.1	5200	4080	+0.034	3665.278	978706.071	-108.772	176.100	-64.602	2.726	551.911
238323.5	7464277.7	5200	4100	+0.036	3664.915	978705.708	-109.039	176.104	-64.604	2.462	551.921
238435.7	7464437.3	5200	4120	+0.038	3664.484	978705.277	-109.378	176.102	-64.603	2.121	551.908
238552.2	7464603.9	5200	4140	+0.039	3664.024	978704.817	-109.742	176.086	-64.597	1.747	551.852
238666.7	7464765.2	5200	4160	+0.041	3663.551	978704.344	-110.122	176.113	-64.607	1.384	551.934
238780.2	7464932.7	5200	4180	+0.043	3662.999	978703.792	-110.577	176.112	-64.606	0.928	551.924
238895.5	7465095.5	5200	4200	+0.045	3662.649	978703.442	-110.833	176.110	-64.605	0.671	551.913
238949.7	7465173.8	5200	4220	+0.047	3662.462	978703.255	-110.975	176.107	-64.605	0.528	551.904
239310.3	7463751.8	5220	4140	+0.061	3666.380	978707.173	-107.891	176.067	-64.590	3.586	551.770
239427.2	7463914.4	5220	4160	+0.060	3665.942	978706.735	-108.235	176.072	-64.592	3.245	551.780
239541.9	7464078.4	5220	4180	+0.055	3665.579	978706.372	-108.504	176.092	-64.599	2.989	551.843
239656.9	7464241.9	5220	4200	+0.053	3665.242	978706.035	-108.746	176.093	-64.600	2.748	551.842
239772.8	7464404.6	5220	4220	+0.052	3665.055	978705.848	-108.840	176.096	-64.601	2.656	551.846
239873.2	7464544.5	5220	4240	+0.051	3664.822	978705.615	-108.992	176.108	-64.605	2.512	551.861
240153.3	7460976.3	5260	4140	+0.023	3674.488	978715.281	-101.413	176.048	-64.583	10.052	551.716
240843.3	7461958.4	5260	4260	+0.150	3671.633	978712.426	-103.701	176.029	-64.576	7.751	551.614
244260.1	7460593.1	5340	4100	+0.153	3676.524	978717.317	-99.643	175.992	-64.562	11.787	551.397
245324.1	7459721.8	5360	4140	+0.014	3678.681	978719.474	-98.006	175.987	-64.560	13.421	551.356
/D238											
/ 248310.2	7459288.4	0	901	+0.000	3677.470	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.470	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.063	3677.470	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.407	978718.243	-99.521	179.751	-65.939	14.291	563.457
234431.7	7466409.3	5100	4140	+0.055	3658.805	978699.578	-113.885	176.125	-64.611	-2.371	552.101
234545.8	7466574.0	5100	4160	+0.055	3658.343	978699.116	-114.252	176.125	-64.611	-2.738	552.096
234659.7	7466738.6	5100	4180	+0.054	3657.814	978698.587	-114.686	176.130	-64.613	-3.169	552.109
234773.6	7466902.8	5100	4200	+0.053	3657.373	978698.146	-115.033	176.127	-64.612	-3.517	552.097
234887.4	7467066.9	5100	4220	+0.053	3657.070	978697.843	-115.241	176.133	-64.614	-3.722	552.112
235001.6	7467231.1	5100	4240	+0.052	3656.804	978697.577	-115.412	176.131	-64.613	-3.894	552.103
235115.9	7467396.1	5100	4260	+0.052	3656.585	978697.358	-115.536	176.135	-64.615	-4.016	552.112
235230.0	7467560.1	5100	4280	+0.051	3656.406	978697.179	-115.621	176.133	-64.614	-4.102	552.102
235344.3	7467724.8	5100	4300	+0.051	3656.212	978696.985	-115.720	176.132	-64.614	-4.201	552.095
235457.9	7467889.1										

235914.4	7468546.8	5100	4400	+0.048	3655.561	978696.334	-115.897	176.125	-64.611	-4.383	552.055
236028.1	7468710.7	5100	4420	+0.047	3655.297	978696.070	-116.067	176.136	-64.615	-4.546	552.085
236085.5	7468904.0	5100	4440	+0.047	3654.665	978695.438	-116.587	176.189	-64.634	-5.033	552.256
236093.1	7469159.3	5100	4460	+0.046	3653.647	978694.420	-117.456	176.207	-64.641	-5.890	552.316
236370.7	7469204.4	5100	4480	+0.046	3653.758	978694.531	-117.321	176.158	-64.623	-5.787	552.149
236484.6	7469368.9	5100	4500	+0.045	3653.321	978694.094	-117.664	176.159	-64.623	-6.128	552.149
236598.3	7469533.0	5100	4520	+0.044	3652.958	978693.731	-117.932	176.144	-64.618	-6.406	552.098
236712.6	7469697.6	5100	4540	+0.044	3652.732	978693.505	-118.063	176.135	-64.615	-6.543	552.066
236827.1	7469862.2	5100	4560	+0.043	3652.746	978693.519	-117.955	176.131	-64.613	-6.437	552.052
236940.7	7470026.4	5100	4580	+0.043	3652.779	978693.552	-117.827	176.135	-64.615	-6.307	552.061
237054.7	7470190.7	5100	4600	+0.042	3652.652	978693.425	-117.859	176.141	-64.617	-6.335	552.081
237168.7	7470354.7	5100	4620	+0.041	3652.207	978692.980	-118.210	176.124	-64.611	-6.697	552.021
237283.0	7470519.5	5100	4640	+0.041	3651.694	978692.467	-118.628	176.127	-64.612	-7.113	552.030
237396.8	7470683.7	5100	4660	+0.040	3651.534	978692.307	-118.693	176.140	-64.616	-7.170	552.068
237510.6	7470848.0	5100	4680	+0.040	3651.858	978692.631	-118.275	176.138	-64.616	-6.753	552.060
237625.0	7471013.0	5100	4700	+0.039	3651.341	978692.114	-118.697	176.140	-64.617	-7.173	552.066
237739.1	7471176.9	5100	4720	+0.039	3650.822	978691.595	-119.121	176.148	-64.619	-7.593	552.089
237853.2	7471341.0	5100	4740	+0.038	3650.449	978691.222	-119.400	176.137	-64.616	-7.878	552.054
237967.1	7471505.5	5100	4760	+0.038	3649.639	978690.412	-120.115	176.154	-64.622	-8.583	552.105
238081.5	7471671.1	5100	4780	+0.036	3648.681	978689.454	-120.978	176.141	-64.617	-9.454	552.060
238195.1	7471834.6	5100	4800	+0.035	3648.224	978688.997	-121.341	176.125	-64.611	-9.827	552.007
238309.4	7471999.3	5100	4820	+0.034	3648.047	978688.820	-121.423	176.119	-64.609	-9.913	551.987
238423.2	7472163.0	5100	4840	+0.034	3648.160	978688.933	-121.216	176.121	-64.610	-9.704	551.994
238537.5	7472327.6	5100	4860	+0.033	3648.073	978688.846	-121.208	176.107	-64.604	-9.706	551.945
238651.4	7472492.3	5100	4880	+0.033	3647.696	978688.469	-121.490	176.110	-64.606	-9.986	551.955
238755.9	7472642.6	5100	4900	+0.032	3647.206	978687.979	-121.894	176.108	-64.605	-10.390	551.948
234826.9	7465334.6	5120	4000	+0.015	3660.226	978700.999	-113.096	177.876	-65.252	-0.472	557.767
234943.5	7465497.1	5120	4020	+0.016	3660.097	978700.870	-113.131	177.432	-65.090	-0.789	556.323
235056.5	7465661.9	5120	4040	+0.016	3660.623	978701.396	-112.510	176.134	-64.615	-0.990	552.115
235170.5	7465826.4	5120	4060	+0.017	3660.159	978700.932	-112.879	176.126	-64.612	-1.364	552.084
235285.3	7465990.5	5120	4080	+0.017	3659.774	978700.547	-113.169	176.128	-64.612	-1.653	552.087
235400.1	7466154.4	5120	4100	+0.018	3659.393	978700.166	-113.456	176.123	-64.610	-1.943	552.064
235514.9	7466318.8	5120	4120	+0.019	3659.069	978699.842	-113.685	176.124	-64.611	-2.172	552.064
235629.1	7466482.7	5120	4140	+0.020	3658.702	978699.475	-113.957	176.118	-64.609	-2.448	552.041
235743.9	7466646.4	5120	4160	+0.020	3658.416	978699.189	-114.149	176.123	-64.610	-2.637	552.051
235858.8	7466811.1	5120	4180	+0.021	3658.251	978699.024	-114.219	176.116	-64.608	-2.711	552.027
235973.5	7466975.1	5120	4200	+0.021	3658.089	978698.862	-114.287	176.123	-64.611	-2.774	552.046
236088.4	7467139.2	5120	4220	+0.022	3658.264	978699.037	-114.017	176.107	-64.604	-2.515	551.988
236202.6	7467302.2	5120	4240	+0.022	3658.760	978699.533	-113.427	176.105	-64.604	-1.926	551.979
236317.4	7467466.6	5120	4260	+0.023	3658.922	978699.695	-113.170	176.106	-64.604	-1.669	551.977
236431.7	7467630.3	5120	4280	+0.023	3658.865	978699.638	-113.133	176.117	-64.608	-1.624	552.012
236546.6	7467794.6	5120	4300	+0.024	3658.735	978699.508	-113.168	176.123	-64.611	-1.655	552.029
236660.7	7467958.0	5120	4320	+0.024	3658.571	978699.344	-113.238	176.127	-64.612	-1.723	552.037
236775.4	7468122.4	5120	4340	+0.025	3658.200	978698.973	-113.514	176.127	-64.612	-1.999	552.034
236890.4	7468286.7	5120	4360	+0.025	3657.364	978698.137	-114.256	176.123	-64.610	-2.743	552.016
237004.9	7468450.2	5120	4380	+0.026	3656.662	978697.435	-114.864	176.128	-64.612	-3.348	552.029
237119.5	7468614.8	5120	4400	+0.026	3655.987	978696.760	-115.444	176.130	-64.613	-3.927	552.033
237234.4	7468778.5	5120	4420	+0.028	3655.302	978696.075	-116.035	176.136	-64.615	-4.513	552.050
237349.2	7468942.5	5120	4440	+0.028	3654.803	978695.576	-116.439	176.139	-64.616	-4.916	552.056
237463.6	7469106.4	5120	4460	+0.029	3654.398	978695.171	-116.750	176.141	-64.617	-5.226	552.058
237578.4	7469270.6	5120	4480	+0.030	3654.131	978694.904	-116.922	176.147	-64.619	-5.394	552.077
237692.7	7469434.5	5120	4500	+0.030	3654.147	978694.920	-116.812	176.130	-64.613	-5.294	552.019
237743.9	7469658.0	5120	4520	+0.031	3653.987	978694.760	-116.842	176.232	-64.650	-5.261	552.347
236291.6	7465368.3	5160	4000	+0.014	3661.589	978702.362	-111.728	176.098	-64.601	-0.231	551.959
236523.8	7465694.4	5160	4040	+0.057	3660.768	978701.541	-112.361	176.114	-64.607	-0.854	552.001
236969.3	7464361.1	5180	4000	+0.009	3664.611	978705.384	-109.301	176.186	-64.633	2.252	552.228
239696.3	7462339.6	5240	4200	+0.060	3670.663	978711.436	-104.457	176.039	-64.580	7.002	551.681
/D239											
/ 248310.2	7459288.4	0	901	+0.000	3677.474	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.474	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.145	3677.474	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.329	978718.243	-99.521	179.751	-65.939	14.291	563.457
231344.8	7468909.0	5040	4000	+0.116	3651.492	978692.261	-119.712	176.684	-64.816	-7.844	554.009
231464.2	7469069.8	5040	4020	+0.117	3651.684	978692.453	-119.428	176.069	-64.591	-7.949	552.012
231583.5	7469229.7	5040	4040	+0.119	3651.518	978692.287	-119.502	176.049	-64.583	-8.036	551.946
231702.6	7469390.7	5040	4060	+0.120	3651.367	978692.136	-119.560	176.109	-64.605	-8.056	552.136
232252.9	7467689.9	5060	4000	+0.112	3653.603	978694.372	-118.322	177.936	-65.274	-5.660	558.036
232371.9	7467850.5	5060	4020	+0.111	3654.315	978695.084	-117.517	176.508	-64.751	-5.761	553.403
232488.6	7468012.2	5060	4040	+0.110	3654.219	978694.988	-117.520	176.083	-64.596	-6.032	552.026
232606.6	7468173.6	5060	4060	+0.109	3653.868	978694.637	-117.778	176.036	-64.579	-6.320	551.871
232725.2	7468336.0	5060	4080	+0.108	3653.444	978694.213	-118.109	176.125	-64.611	-6.595	552.153
232842.5	7468496.9	5060	4100	+0.106	3653.246	978694.015	-118.214	176.136	-64.615	-6.693	552.187
232960.9	7468660.1	5060	4120	+0.105	3653.171	978693.940	-118.195	176.131	-64.613	-6.677	552.166
233078.7	7468820.5	5060	4140	+0.103	3653.093	978693.862	-118.181	176.126	-64.611	-6.666	552.145
233195.5	7468981.2	5060	4160	+0.101	3652.999	978693.768	-118.182	176.130	-64.613	-6.665	552.155
233313.3	7469143.0	5060	4180	+0.100	3652.999	978693.768	-118.089	176.127	-64.612	-6.574	552.143
233432.2	7469305.1	5060	4200	+0.099	3653.224	978693.993	-117.771	176.131	-64.613	-6.253	552.154
233549.8	7469467.3	5060	4220	+0.098	3653.413	978694.182	-117.488	176.123	-64.610	-5.975	552.127
233667.4	7469628.9	5060	4240	+0.097	3653.425	978694.194	-117.383	176.123	-64.610	-5.871	552.122
233786.6	7469791.1	5060	4260	+0.096	3653.402	978694.171	-117.313	176.141	-64.617	-5.789	552.178
233903.5	7469952.1	5060	4280	+0.095	3653.128	978693.897	-117.494	176.128	-64.612	-5.978	552.134
234021.8	7470113.8	5060	4300	+0.094	3652.718	978693.487	-117.811	176.137	-64.616	-6.289	552.161
234140.3	7470275.1	5060	4320	+0.091	3651.860	978692.629	-118.576	176.124	-64.611	-7.063	552.115
234256.9	7470436.5	5060	4340	+0.090	3651.196	978691.965	-119.148	176.125	-64.611	-7.633	552.117
234687.6	7470370.1	5060	4360	+0.087	3651.354	978692.123	-119.033	176.216	-64.645	-7.461	552.399
234853.1	7470500.9										

234965.6	7471408.6	5060	4460	+0.082	3650.185	978690.954	-119.599	176.117	-64.608	-8.090	552.078
235082.4	7471569.5	5060	4480	+0.081	3649.981	978690.750	-119.711	176.094	-64.600	-8.216	552.001
235201.1	7471730.3	5060	4500	+0.080	3649.520	978690.289	-120.079	176.086	-64.597	-8.590	551.971
235319.0	7471893.5	5060	4520	+0.079	3648.796	978689.565	-120.709	176.105	-64.604	-9.208	552.033
235435.9	7472054.1	5060	4540	+0.078	3647.488	978688.257	-121.925	176.116	-64.608	-10.417	552.065
235554.7	7472216.2	5060	4560	+0.077	3646.776	978687.545	-122.544	176.116	-64.608	-11.035	552.065
235671.9	7472377.0	5060	4580	+0.075	3646.513	978687.282	-122.714	176.115	-64.607	-11.207	552.060
235790.4	7472539.6	5060	4600	+0.073	3645.788	978686.557	-123.346	176.179	-64.631	-11.797	552.265
235907.1	7472699.9	5060	4620	+0.073	3645.156	978685.925	-123.886	176.128	-64.612	-12.370	552.096
236025.4	7472862.4	5060	4640	+0.072	3644.674	978685.443	-124.274	176.115	-64.607	-12.766	552.055
236142.7	7473024.0	5060	4660	+0.071	3644.390	978685.159	-124.465	176.103	-64.603	-12.965	552.014
236261.4	7473185.9	5060	4680	+0.070	3644.619	978685.388	-124.143	176.112	-64.606	-12.638	552.041
236380.0	7473347.9	5060	4700	+0.069	3644.528	978685.297	-124.141	176.099	-64.602	-12.643	551.998
236496.7	7473507.6	5060	4720	+0.067	3644.045	978684.814	-124.532	176.096	-64.601	-13.036	551.987
236536.8	7473564.2	5060	4740	+0.066	3643.896	978684.665	-124.649	176.092	-64.599	-13.156	551.972
233192.9	7467026.2	5080	4000	+0.038	3657.188	978697.957	-115.133	176.091	-64.599	-3.641	552.029
233309.0	7467191.6	5080	4020	+0.039	3656.536	978697.305	-115.690	176.106	-64.604	-4.188	552.073
233425.5	7467356.0	5080	4040	+0.041	3655.988	978696.757	-116.143	176.139	-64.616	-4.820	552.177
233539.7	7467516.6	5080	4060	+0.043	3655.638	978696.407	-116.401	176.148	-64.620	-4.872	552.203
233656.4	7467680.8	5080	4080	+0.044	3655.245	978696.014	-116.699	176.133	-64.614	-5.180	552.150
233773.4	7467845.1	5080	4100	+0.045	3654.828	978695.597	-117.022	176.119	-64.609	-5.511	552.102
233888.1	7468007.7	5080	4120	+0.046	3654.511	978695.280	-117.245	176.117	-64.608	-5.736	552.092
234004.5	7468170.4	5080	4140	+0.047	3654.281	978695.050	-117.381	176.125	-64.611	-5.867	552.115
234119.3	7468333.1	5080	4160	+0.048	3654.118	978694.887	-117.451	176.119	-64.609	-5.940	552.091
234235.2	7468496.3	5080	4180	+0.049	3654.181	978694.950	-117.293	176.108	-64.605	-5.790	552.053
234351.5	7468659.2	5080	4200	+0.050	3654.575	978695.344	-116.806	176.101	-64.602	-5.307	552.025
234467.2	7468823.2	5080	4220	+0.052	3654.799	978695.568	-116.487	176.091	-64.599	-4.995	551.990
234584.0	7468986.2	5080	4240	+0.053	3654.892	978695.661	-116.300	176.100	-64.602	-4.802	552.017
234698.5	7469148.5	5080	4260	+0.054	3654.581	978695.350	-116.518	176.096	-64.600	-5.022	552.001
234814.6	7469311.8	5080	4280	+0.055	3654.035	978694.804	-116.970	176.092	-64.599	-5.477	551.985
234930.7	7469475.4	5080	4300	+0.056	3653.725	978694.494	-117.186	176.089	-64.598	-5.695	551.972
235046.7	7469639.0	5080	4320	+0.057	3653.504	978694.273	-117.313	176.093	-64.599	-5.819	551.983
235162.7	7469801.6	5080	4340	+0.058	3653.250	978694.019	-117.473	176.117	-64.608	-5.964	552.057
235278.2	7469963.8	5080	4360	+0.060	3652.814	978693.583	-117.815	176.113	-64.607	-6.309	552.044
235351.7	7470067.3	5080	4380	+0.061	3652.580	978693.349	-117.990	176.230	-64.650	-6.410	552.420
233635.3	7465259.5	5100	4000	+0.034	3660.565	978701.334	-112.793	178.245	-65.388	0.065	559.000
233746.1	7465421.8	5100	4020	+0.032	3660.594	978701.363	-112.670	177.501	-65.115	-0.284	556.586
233862.9	7465587.6	5100	4040	+0.031	3659.957	978700.726	-113.211	177.671	-65.177	-0.717	557.133
233974.4	7465751.3	5100	4060	+0.030	3659.624	978700.393	-113.450	177.492	-65.112	-1.069	556.548
234088.6	7465916.7	5100	4080	+0.028	3660.399	978701.168	-112.579	176.114	-64.607	-1.072	552.080
234203.7	7466082.3	5100	4100	+0.027	3659.780	978700.549	-113.103	176.122	-64.610	-1.591	552.100
234317.4	7466245.4	5100	4120	+0.026	3659.162	978699.931	-113.627	176.131	-64.613	-2.109	552.126
234431.8	7466409.3	5100	4140	+0.025	3658.792	978699.561	-113.902	176.131	-64.613	-2.385	552.121
235056.4	7465661.9	5120	4040	+0.125	3660.635	978701.404	-112.502	176.140	-64.617	-0.978	552.135
237862.3	7463617.7	5200	4020	+0.131	3666.470	978707.239	-107.889	176.063	-64.588	3.586	551.804
242345.5	7462092.8	5280	4260	+0.136	3672.225	978712.994	-103.070	175.996	-64.564	8.363	551.456
245558.4	7458270.1	5380	4040	+0.012	3681.268	978722.037	-96.294	175.916	-64.535	15.087	551.148
248168.9	7457533.8	5420	4060	+0.142	3683.568	978724.337	-94.451	175.943	-64.544	16.948	551.159
/D240											
/ 248310.2	7459288.4	0	901	+0.000	3677.520	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.520	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.056	3677.520	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.464	978718.243	-99.521	179.751	-65.939	14.291	563.457
229973.5	7468865.0	5020	4000	+0.048	3651.595	978692.318	-119.667	177.218	-65.011	-7.460	555.778
230093.4	7469024.8	5020	4020	+0.048	3651.380	978692.103	-119.790	176.819	-64.865	-7.836	554.482
230213.5	7469186.2	5020	4040	+0.047	3650.375	978691.098	-120.702	177.538	-65.129	-8.293	556.809
230333.4	7469351.3	5020	4060	+0.047	3650.383	978691.106	-120.599	176.902	-64.896	-8.593	554.746
230448.9	7469510.5	5020	4080	+0.046	3650.491	978691.214	-120.399	176.116	-64.608	-8.890	552.198
230566.5	7469671.5	5020	4100	+0.046	3650.230	978690.953	-120.567	176.093	-64.599	-9.074	552.118
230685.2	7469833.5	5020	4120	+0.045	3650.164	978690.887	-120.540	176.076	-64.593	-9.058	552.061
230803.4	7469994.2	5020	4140	+0.044	3650.168	978690.891	-120.444	176.075	-64.593	-8.961	552.056
230921.8	7470155.7	5020	4160	+0.044	3650.076	978690.799	-120.443	176.076	-64.593	-8.960	552.055
231040.5	7470317.2	5020	4180	+0.043	3649.952	978690.675	-120.474	176.086	-64.597	-8.985	552.084
231158.8	7470478.6	5020	4200	+0.043	3649.877	978690.600	-120.456	176.113	-64.607	-8.950	552.170
231276.9	7470639.9	5020	4220	+0.043	3649.749	978690.472	-120.491	176.109	-64.605	-8.988	552.154
231395.1	7470801.0	5020	4240	+0.042	3649.513	978690.236	-120.635	176.103	-64.603	-9.135	552.134
231513.5	7470962.3	5020	4260	+0.042	3649.516	978690.239	-120.539	176.069	-64.591	-9.060	552.020
231632.2	7471123.6	5020	4280	+0.041	3649.622	978690.345	-120.340	176.064	-64.589	-8.865	552.002
231750.7	7471285.6	5020	4300	+0.041	3649.163	978689.886	-120.706	176.050	-64.584	-9.239	551.956
231868.5	7471446.5	5020	4320	+0.040	3648.832	978689.555	-120.944	176.071	-64.591	-9.465	552.021
231987.1	7471607.7	5020	4340	+0.040	3648.496	978689.219	-121.188	176.081	-64.595	-9.702	552.052
232105.7	7471768.9	5020	4360	+0.039	3648.113	978688.836	-121.478	176.098	-64.601	-9.981	552.105
232223.8	7471930.4	5020	4380	+0.038	3647.952	978688.675	-121.546	176.105	-64.604	-10.045	552.125
232342.1	7472092.0	5020	4400	+0.038	3647.889	978688.612	-121.516	176.108	-64.605	-10.013	552.132
232460.5	7472253.1	5020	4420	+0.037	3647.628	978688.351	-121.685	176.113	-64.607	-10.178	552.148
232578.5	7472414.1	5020	4440	+0.037	3647.383	978688.106	-121.837	176.106	-64.604	-10.335	552.122
232697.5	7472576.1	5020	4460	+0.037	3646.767	978687.490	-122.360	176.113	-64.606	-10.854	552.141
232815.7	7472737.4	5020	4480	+0.036	3646.003	978686.726	-123.031	176.090	-64.598	-11.539	552.066
232933.5	7472898.5	5020	4500	+0.036	3645.388	978686.111	-123.554	176.039	-64.579	-12.094	551.899
233052.2	7473059.4	5020	4520	+0.035	3644.772	978685.495	-124.077	176.083	-64.596	-12.590	552.040
233170.5	7473221.4	5020	4540	+0.035	3644.342	978685.065	-124.414	176.084	-64.596	-12.926	552.041
233289.1	7473382.7	5020	4560	+0.032	3643.941	978684.664	-124.722	176.089	-64.598	-13.231	552.059
233407.4	7473544.3	5020	4580	+0.032	3643.382	978684.105	-125.188	176.096	-64.601	-13.693	552.081
233526.4	7473705.8	5020	4600	+0.031	3642.909	978683.632	-125.569	176.098	-64.601	-14.072	552.084
233644.3	7473866.6	5020	4620	+0.031	3642.206	978682.929	-126.179	176.084	-64.596	-14.691	552.039



231464.0	7469069.8	5040	4020	+0.008	3651.685	978692.408	-119.473	176.072	-64.592	-7.992	552.021
231583.5	7469229.5	5040	4040	+0.009	3651.522	978692.245	-119.544	176.058	-64.587	-8.072	551.975
231822.5	7469551.0	5040	4080	+0.010	3651.161	978691.884	-119.720	176.113	-64.607	-8.213	552.148
231941.2	7469711.4	5040	4100	+0.010	3650.909	978691.632	-119.879	176.125	-64.611	-8.365	552.182
232060.9	7469872.1	5040	4120	+0.011	3650.818	978691.541	-119.878	176.116	-64.608	-8.370	552.148
232180.2	7470033.0	5040	4140	+0.012	3650.730	978691.453	-119.873	176.114	-64.607	-8.367	552.140
232299.8	7470193.8	5040	4160	+0.012	3650.552	978691.275	-119.959	176.112	-64.606	-8.453	552.134
232419.0	7470354.2	5040	4180	+0.013	3650.282	978691.005	-120.137	176.106	-64.604	-8.635	552.109
232538.6	7470514.9	5040	4200	+0.013	3650.055	978690.778	-120.271	176.118	-64.609	-8.762	552.146
232657.4	7470675.5	5040	4220	+0.014	3649.888	978690.611	-120.346	176.129	-64.612	-8.830	552.179
232777.2	7470836.0	5040	4240	+0.014	3649.646	978690.369	-120.496	176.125	-64.611	-8.982	552.163
232896.2	7470996.5	5040	4260	+0.015	3649.326	978690.049	-120.723	176.131	-64.613	-9.206	552.180
233015.8	7471157.3	5040	4280	+0.015	3649.202	978689.925	-120.755	176.117	-64.608	-9.246	552.135
233135.3	7471317.8	5040	4300	+0.016	3649.173	978689.896	-120.691	176.125	-64.611	-9.177	552.158
233254.4	7471478.3	5040	4320	+0.016	3649.092	978689.815	-120.680	176.120	-64.609	-9.169	552.140
233373.7	7471639.1	5040	4340	+0.017	3648.898	978689.621	-120.782	176.126	-64.611	-9.267	552.156
233494.0	7471800.7	5040	4360	+0.018	3648.691	978689.414	-120.896	176.138	-64.616	-9.374	552.193
233612.3	7471960.3	5040	4380	+0.018	3648.161	978688.884	-121.334	176.109	-64.605	-9.830	552.099
233732.4	7472122.1	5040	4400	+0.019	3647.598	978688.321	-121.804	176.134	-64.615	-10.284	552.177
233850.9	7472281.2	5040	4420	+0.019	3647.384	978688.107	-121.927	176.111	-64.606	-10.422	552.099
233970.8	7472442.3	5040	4440	+0.020	3647.033	978687.756	-122.185	176.121	-64.610	-10.673	552.130
234089.7	7472602.9	5040	4460	+0.022	3646.323	978687.046	-122.803	176.105	-64.604	-11.301	552.078
234209.5	7472764.0	5040	4480	+0.023	3645.726	978686.449	-123.307	176.096	-64.601	-11.811	552.048
234328.5	7472923.7	5040	4500	+0.024	3645.072	978685.795	-123.869	176.100	-64.602	-12.371	552.058
234447.8	7473084.5	5040	4520	+0.025	3644.394	978685.117	-124.455	176.091	-64.599	-12.963	552.026
234567.0	7473245.4	5040	4540	+0.025	3643.955	978684.678	-124.801	176.079	-64.594	-13.316	551.989
234686.7	7473405.8	5040	4560	+0.026	3643.247	978683.970	-125.417	176.068	-64.590	-13.939	551.951
234806.0	7473566.2	5040	4580	+0.027	3642.768	978683.491	-125.804	176.035	-64.578	-14.347	551.841
234925.2	7473727.0	5040	4600	+0.027	3642.328	978683.051	-126.151	176.032	-64.577	-14.696	551.831
235044.4	7473887.7	5040	4620	+0.028	3641.878	978682.601	-126.509	176.028	-64.576	-15.057	551.816
235163.6	7474048.0	5040	4640	+0.028	3641.522	978682.245	-126.773	176.063	-64.588	-15.299	551.926
232371.8	7467850.5	5060	4020	+0.050	3654.413	978695.136	-117.465	176.502	-64.749	-5.712	553.385
232488.9	7468012.6	5060	4040	+0.050	3654.313	978695.036	-117.472	176.076	-64.593	-5.989	552.001
/D241											
/ 248310.2	7459288.4	0	901	+0.000	3677.623	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.623	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.090	3677.623	978718.243	-99.521	179.751	-65.939	14.291	563.457
/ 248310.2	7459288.4	0	901	+0.000	3677.533	978718.243	-99.521	179.751	-65.939	14.291	563.457
229815.7	7470176.6	5000	4000	+0.024	3649.156	978689.776	-121.442	176.087	-64.597	-9.953	552.122
229932.9	7470337.5	5000	4020	+0.025	3649.031	978689.651	-121.475	176.094	-64.600	-9.980	552.144
230053.1	7470499.2	5000	4040	+0.026	3648.928	978689.548	-121.485	176.097	-64.601	-9.989	552.150
230172.6	7470659.9	5000	4060	+0.027	3648.825	978689.445	-121.495	176.093	-64.599	-10.002	552.134
230291.6	7470820.3	5000	4080	+0.028	3648.798	978689.418	-121.430	176.099	-64.602	-9.932	552.154
230411.1	7470981.9	5000	4100	+0.030	3648.809	978689.429	-121.326	176.097	-64.601	-9.830	552.145
230530.7	7471142.8	5000	4120	+0.032	3648.610	978689.230	-121.432	176.097	-64.601	-9.936	552.141
230648.8	7471302.2	5000	4140	+0.033	3648.332	978688.952	-121.619	176.108	-64.605	-10.116	552.175
230768.0	7471463.3	5000	4160	+0.034	3648.186	978688.806	-121.672	176.095	-64.600	-10.177	552.132
230889.9	7471627.2	5000	4180	+0.036	3648.091	978688.711	-121.673	176.095	-64.600	-10.178	552.128
231007.0	7471785.3	5000	4200	+0.039	3647.977	978688.597	-121.696	176.090	-64.598	-10.204	552.111
231126.0	7471945.9	5000	4220	+0.040	3647.534	978688.154	-122.047	176.074	-64.592	-10.565	552.056
231243.6	7472104.6	5000	4240	+0.041	3646.931	978687.551	-122.559	176.088	-64.597	-11.068	552.099
231364.5	7472266.5	5000	4260	+0.044	3646.447	978687.067	-122.949	176.094	-64.600	-11.455	552.117
231483.6	7472426.2	5000	4280	+0.046	3646.148	978686.768	-123.157	176.093	-64.599	-11.663	552.113
231603.8	7472588.8	5000	4300	+0.048	3645.855	978686.475	-123.356	176.115	-64.607	-11.849	552.180
231721.6	7472748.9	5000	4320	+0.049	3645.772	978686.392	-123.347	176.122	-64.610	-11.835	552.203
231841.5	7472909.3	5000	4340	+0.050	3645.491	978686.111	-123.536	176.167	-64.626	-11.996	552.345
231960.7	7473070.1	5000	4360	+0.051	3644.926	978685.546	-124.009	176.072	-64.592	-12.528	552.039
232079.0	7473230.9	5000	4380	+0.055	3644.048	978684.668	-124.794	176.050	-64.584	-13.328	551.965
232198.5	7473391.8	5000	4400	+0.056	3643.715	978684.335	-125.035	176.049	-64.583	-13.569	551.961
232317.3	7473552.1	5000	4420	+0.058	3643.657	978684.277	-125.001	176.054	-64.585	-13.532	551.973
232437.4	7473714.2	5000	4440	+0.062	3643.542	978684.162	-125.022	176.040	-64.580	-13.563	551.927
232556.6	7473874.1	5000	4460	+0.064	3643.065	978683.685	-125.408	176.040	-64.580	-13.948	551.925
232676.0	7474035.0	5000	4480	+0.066	3642.460	978683.080	-125.920	176.043	-64.581	-14.458	551.935
232794.8	7474195.0	5000	4500	+0.067	3641.767	978682.387	-126.521	176.034	-64.578	-15.065	551.905
232929.1	7474375.8	5000	4520	+0.068	3640.803	978681.423	-127.381	176.075	-64.593	-15.899	552.034
230333.3	7469351.2	5020	4060	+0.020	3650.477	978691.097	-120.608	176.900	-64.895	-8.603	554.741
230448.9	7469510.4	5020	4080	+0.022	3650.584	978691.204	-120.409	176.113	-64.607	-8.903	552.187
233880.9	7474188.9	5020	4660	+0.072	3641.667	978682.287	-126.636	176.072	-64.592	-15.156	551.996
233999.5	7474350.6	5020	4680	+0.070	3640.983	978681.603	-127.227	176.072	-64.592	-15.746	551.997