

**Niagara Region Wind Farm  
Noise Assessment Report**

File No. 160950269



**Stantec**

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September 30, 2014

## Version Control

*Noise Assessment Report – Niagara Region Wind Farm (230 MW), Ontario*

| VERSION | DATE           | DESCRIPTION   | PREPARED BY |
|---------|----------------|---|-------------|
| 1       | November 2012  | Noise Assessment report of NRWC 230 MW Wind energy project with substation transformers – prepared for Municipal submission   | Stantec     |
| 2       | December 2012  | Updated Noise Assessment report of NRWC 230 MW Wind energy project with substation transformers – prepared for Public Release including comments from municipality  | Stantec     |
| 3       | April 2013     | Prepared for Final submission to the MOE  | Stantec     |
| 4       | July 2013      | Prepared for Final submission to the MOE – Appendix F with additional information added   | Stantec     |
| 5       | September 2013 | Prepared for Final submission to the MOE with manufacturer data for 10 m/s wind speed added – Appendix F with additional information added  | Stantec     |
| 6       | May 2014       | Prepared for Final submission to the MOE with receptor ID change as discussed with MOE – Appendix G with additional rationale for Receptors included. Report also presents single option for wind turbine selection | Stantec     |
| 7       | September 2014 | Prepared for Final submission to the MOE with PORs O_1002, O_2922, O-856, O-986 moved to center of buildings and O_3139 and O-3142 designated as V_3139, V_3142 from all previous reports.                          | Stantec     |



## Table of Contents

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|  |            |
|--|------------|
| <b>EXECUTIVE SUMMARY .....</b>               | <b>IV</b>  |
| <b>1.0 INTRODUCTION .....</b>                | <b>1.1</b> |
| 1.1 BACKGROUND .....                         | 1.1        |
| <hr/>  |            |
| <b>2.0 PROJECT DESCRIPTION .....</b>         | <b>2.1</b> |
| 2.1 PROJECT LOCATION.....                    | 2.1        |
| 2.2 PROJECT DETAILS .....                    | 2.1        |
| 2.3 PROJECT WIND TURBINE GENERATORS.....     | 2.1        |
| 2.4 OPERATION SCENARIO .....                 | 2.2        |
| <hr/>  |            |
| <b>3.0 NOISE SOURCE SUMMARY.....</b>         | <b>3.1</b> |
| 3.1 NOISE SOURCES.....                       | 3.1        |
| 3.2 SOUND CHARACTER ADJUSTMENTS .....        | 3.7        |
| 3.3 CUMULATIVE EFFECTS .....                 | 3.7        |
| <hr/>  |            |
| <b>4.0 POINTS OF RECEPTION.....</b>          | <b>4.1</b> |
| 4.1 DEFINITION OF A POINT OF RECEPTION ..... | 4.1        |
| 4.2 EXISTING POINTS OF RECEPTION.....        | 4.2        |
| <hr/>  |            |
| <b>5.0 NOISE ASSESSMENT CRITERIA.....</b>    | <b>5.1</b> |
| 5.1 MOE GUIDELINE LIMITS.....                | 5.1        |
| <hr/>  |            |
| <b>6.0 IMPACT ASSESSMENT .....</b>           | <b>6.1</b> |
| 6.1 METHODOLOGY.....                         | 6.1        |
| 6.2 RESULTS AND RECOMMENDATIONS .....        | 6.2        |
| 6.2.1 Project and Cumulative Effects.....    | 6.2        |
| <hr/>  |            |
| <b>7.0 CONCLUSIONS AND CLOSURE .....</b>     | <b>7.1</b> |

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

September 30, 2014

**LIST OF TABLES**

|           |  |     |
|-----------|--|-----|
| Table 2.1 | Basic Wind Turbine Specifications.....   | 2.2 |
| Table 3.1 | Wind Turbine Sound Emission Summary .....  | 3.3 |
| Table 3.2 | Highest Wind Turbine Sound Emission Corresponding to 95% or above<br>Rated Electrical Output Power ..... | 3.4 |
| Table 3.3 | Substation Transformer Sound Emission Data.....  | 3.4 |
| Table 3.4 | Noise Source Summary Table .....   | 3.4 |
| Table 3.5 | Wind Turbine Locations .....   | 3.5 |
| Table 3.6 | Substation Transformer Locations .....   | 3.7 |
| Table 3.7 | Adjacent Wind Farms within 5 km of the Project .....   | 3.8 |
| Table 3.8 | Assessed Noise Sources Associated with Adjacent or Proposed Wind<br>Farms within 5 km.....               | 3.8 |
| Table 4.1 | Nearby Points of Reception .....   | 4.2 |
| Table 5.1 | Wind Turbine Sound Pressure Limits for Class 3 Area.....   | 5.1 |
| Table 6.1 | Atmospheric Absorption Coefficient (based on 10 degree Celsius and<br>70% Relative Humidity).....        | 6.1 |
| Table 6.2 | Noise Impact Assessment Summary Table*.....  | 6.3 |
| Table 6.3 | Noise Impact Assessment Summary Table for Mutual PORs for NRWC<br>and Mohawk Point Wind Farm WTGs.....   | 6.5 |

**LIST OF FIGURES**

|            |  |     |
|------------|--|-----|
| Figure 1.1 | Study Area Overview .....  | 1.2 |
| Figure 2.1 | Locations of Project Infrastructure within Study Area .....                                  | 2.3 |
| Figure 6.1 | Predicted Equivalent Sound Level Contours (Cumulative Effects -<br>Day/Nighttime Hours)..... | 6.4 |

**LIST OF APPENDICES**

|                   |  |            |
|-------------------|--|------------|
| <b>APPENDIX A</b> | <b>ZONING MAPS .....</b>   | <b>A.1</b> |
| <b>APPENDIX B</b> | <b>PROJECT LAYOUT PLAN .....</b>   | <b>B.1</b> |
| <b>APPENDIX C</b> | <b>RESULTS FOR ALL POINTS OF RECEPTION (PORS) .....</b>                              | <b>C.1</b> |
| <b>APPENDIX D</b> | <b>EQUIPMENT SPECIFICATION .....</b>   | <b>D.1</b> |
| <b>APPENDIX E</b> | <b>SAMPLE CALCULATIONS AND CADNA/A INPUTS/OUTPUTS<br/>(IN THE ATTACHED CD) .....</b> | <b>E.1</b> |
| <b>APPENDIX F</b> | <b>ADDITIONAL INFORMATION .....</b>  | <b>F.1</b> |
|                   | Manufacturers sound emission and adjusted sound emission .....                       | F.2        |
|                   | Manufacturer's catalog data.....   | F.3        |
|                   | Adjacent Wind Farm .....   | F.4        |
|                   | Sample Calculation in Octave Band (V_1541, V1759, O_1624) .....                      | F.5        |
|                   | Transformer Barrier Coordinates .....  | F.6        |
| <b>APPENDIX G</b> | <b>RESPONSE TO MINISTRY OF THE ENVIRONMENT TECHNICAL<br/>REVIEW COMMENTS .....</b>   | <b>G.1</b> |

## **Executive Summary**

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Stantec Consulting Ltd. has been retained by Niagara Region Wind Corporation to prepare a Noise Assessment Report for a proposed 230 MW wind energy generation facility known as the Niagara Region Wind Farm (the Project). The Project will be located within the Townships of West Lincoln and Wainfleet and the Town of Lincoln within the Niagara Region and within Haldimand County in Southern Ontario, in response to the Government of Ontario's initiative to promote the development of renewable energy in the province. This Noise Assessment report has been prepared in support of an application for a Renewable Energy Approval (REA) in accordance with Ontario Regulation 359/09.

This Noise Assessment Report was prepared in accordance with the requirements of the Ontario Ministry of the Environment guideline "*Noise Guidelines for Wind Farms*" (PIBs 4709e, October 2008).

The Project layout, the main noise sources and sound power levels were determined based on the information provided by planners and equipment manufacturers. The source sound power levels were used as inputs to a prediction model based on the ISO 9613 standard. The noise assessment considers operation under predictable worst-case operating conditions to quantify the noise emissions from the Project. The resulting noise levels at the sensitive points of reception were assessed for compliance against assessment criteria that were established following the guidelines provided in MOE publications *NPC-232* and PIBs 4709e.

The assessment considers the effects of two substation transformers, and 80 potential wind turbine generators (WTG) of which only 77 turbines would ultimately be constructed. Furthermore, this assessment presents a wind turbine layout consisting of 9 WTGs with 135 metre hub height and the rest with 124 metre hub height. The assessment indicated that the noise contribution from the proposed project during the predictable worst case operation would meet the MOE noise criteria with the requirement for additional noise control for the substation transformers.

Additional information on turbine sound power data and rationale for location and classification of some of the receptors has been added based on discussions with the MOE during the MOE technical review process and based on comments received through the 60-day EBR posting for this Project.

## 1.0 Introduction

---

Stantec Consulting Ltd. (Stantec) was retained by the Niagara Region Wind Corporation (NRWC) to conduct a noise assessment for its proposed Niagara Region Wind Farm (the Project) with a rated generation capacity of 230 Megawatts (MW). NRWC is proposing to develop, construct, and operate the Project within the Townships of West Lincoln and Wainfleet and the Town of Lincoln within the Niagara Region and Haldimand County in Southern Ontario, in response to the Government of Ontario's initiative to promote the development of renewable energy in the province. This noise assessment considers the effects of the two proposed transformer substations and 80 potential wind turbine generators (WTG) of which only 77 turbines would ultimately be constructed. This report has been prepared as a supporting document for NRWC's application under the Renewable Energy Approval (REA) process.

The Project study area covers approximately 27,727 ha. An area map showing the study area and sensitive Points of Reception (PORs) is provided in Figure 1.1. A zoning map of the area surrounding the Project is provided in **Appendix A**. The area's acoustical environment is best described as Class 3 (Rural) in accordance with the MOE publications NPC-232 and "*Noise Guidelines for Wind Farms*" (PIBs 4709e, October 2008).

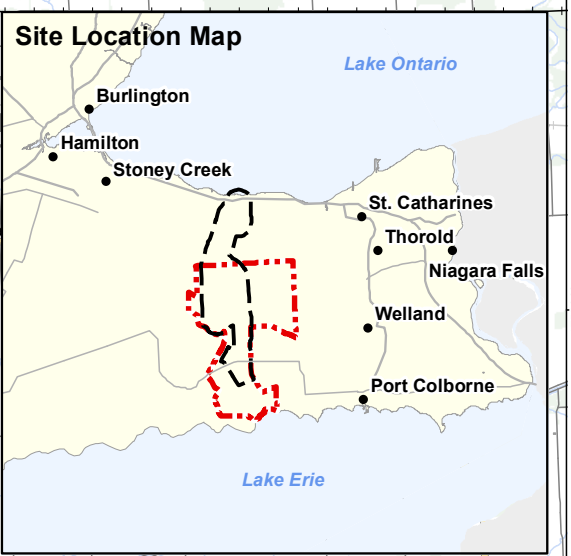
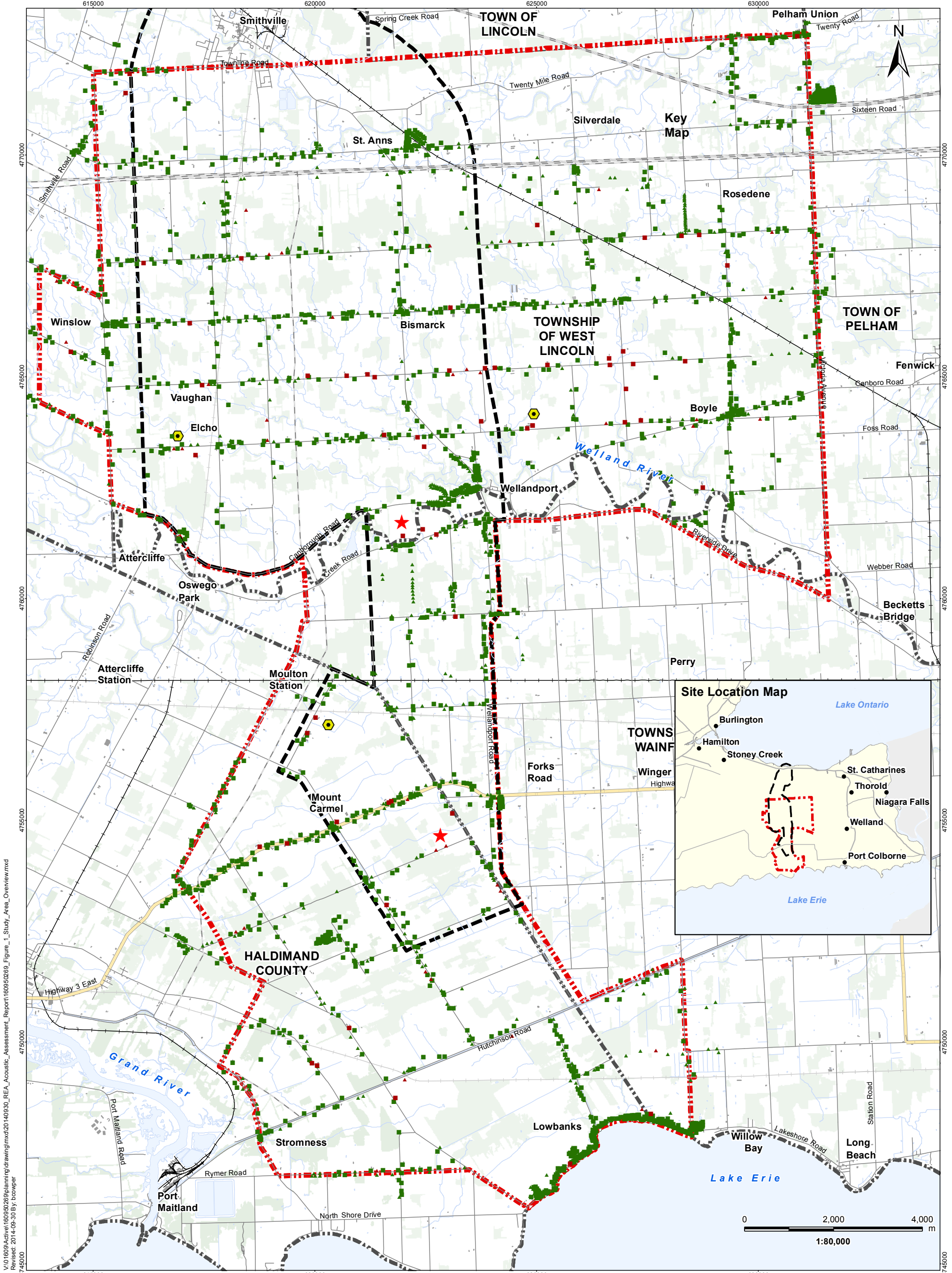
This noise assessment considers the sound levels at 2670 receptors located within approximately 1.5 km of the Project wind turbines. The receptors include all non-participating existing and vacant lot receptors as well as participating receptors as discussed further in Section 4.0.

### 1.1 BACKGROUND

The Ontario Regulation 359/09 (O.Reg. 359/09) made under *Environmental Protection Act*, Renewable Energy Approvals (REA) under Part V.0.1 of the Act, provides current approval requirements for renewable energy projects. The noise assessment of wind farms was previously assessed using O.Reg. 116/01 and are now assessed under O.Reg. 359/09.

According to the project classification guidelines provided under Section 2(6) of O.Reg. 359/09, the Project is classified as a Class 4 wind facility, where: no part of a wind turbine will be located in direct contact with surface water other than in a wetland; the facility has a name plate capacity greater than 50 kW; and, the greatest sound power level is greater than or equal to 102 dBA. Section 54 of O.Reg. 359/09 requires that noise studies be conducted for Class 4 wind facilities in accordance with PIBs 4709e and subsequent amendments. This assessment has been completed in accordance with the above noted requirements.





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**Legend**

- Project Study Area
- Interconnector Study Area
- Transformer Substation
- Tap-in Location
- Existing Met Tower
- Road
- Expressway / Highway
- Active Railway
- Abandoned Railway
- Existing Structures
- Existing Transmission Line
- Watercourse
- Waterbody
- Wooded Area
- Municipality Lower Tier

- Participating Noise Receptors**
- Occupied
  - Vacant
- Non-participating Noise Receptors**
- Occupied
  - Vacant

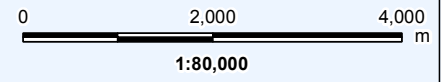
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Figure No.  
 1.1

Title  
**Study Area Overview**

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.



September 2014  
 160950269

## 2.0 Project Description

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### 2.1 PROJECT LOCATION

NRWC is proposing to develop, construct, and operate the 230 MW Niagara Region Wind Farm (the Project) within the Townships of West Lincoln and Wainfleet and the Town of Lincoln within the Niagara Region and Haldimand County in Southern Ontario. The Project Study Area is centred in the Townships of West Lincoln and Wainfleet as shown in Figure 1.1.

The predominant land-use in the Project Study Area is generally agricultural. The proposed wind turbine locations and PORs considered as part of the study are provided in **Appendix B** and Figure 2.1

### 2.2 PROJECT DETAILS

The basic components of the Project include 77 wind turbine generators (80 potential locations identified) each with a rated generation capacity ranging from approximately 2.3 MW to 3.0 MW, for a maximum installed nameplate capacity of 230 MW. An overhead and/or underground collection system connects each turbine to one of two transformer substations via a series of 34.5 kilovolt (kV) collection lines. Turbines are grouped into nine (9) collector circuits that bring power (and data via fibre optic lines) to one of the transformer substations. Voltage is stepped up from 34.5kV to 115kV at each transformer substation by means of a 100 MVA base-rated transformer with two stages of cooling ((i.e. 100/133/166 ONAN/ONAF/ONAF MVA via fans). A 115kV transmission line transports power from each of the two transformer substations north to the grid tap-in location, where the Project is connected to the Hydro One Networks Inc. (HONI) owned transmission line, south of the Queen Elizabeth Way (QEW) in the Town of Lincoln. Power generated from this Project will be conveyed along the existing HONI transmission line to the Beach Transformer Station in Hamilton.

### 2.3 PROJECT WIND TURBINE GENERATORS

The Project will include 77 ENERCON wind turbine generators (80 potential locations identified) each with a rated capacity ranging from approximately 2.3 MW to 3.0 MW with a maximum installed nameplate capacity of 230 MW.

The selected wind turbine models for the Project are the ENERCON E101 and ENERCON E82 to achieve the contract capacity of 230 MW (maximum capacity not to exceed 230 MW). Specifications of the E101 and E82 turbines are summarized below in Table 2.1.

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Project Description  
September 30, 2014

**Table 2.1 Basic Wind Turbine Specifications**

|   |   |   |
|---|---|---|
| Manufacturer                            | ENERCON <sup>2</sup>                              | ENERCON <sup>2</sup>                              |
| Model                                   | E-101   | E-82  |
| Name plate capacity (MW)                | 3.0 MW  | 2.3 MW  |
| Hub height above grade                  | 124 m or 135 m                                    | 135 m   |
| Blade length                            | 48.6m   | 38.8m   |
| Rotor diameter                          | 101 m   | 82 m  |
| Blade sweep area                        | 8,012 m <sup>2</sup>                              | 5,281 m <sup>2</sup>                              |
| Rotational Speed                        | Variable, 4 – 14.5 rpm                            | 6 – 18 rpm  |
| Noise Emission Power Level <sup>1</sup> | 104.8 dBA (referenced to 10 <sup>-12</sup> Watts) | 103.3 dBA (referenced to 10 <sup>-12</sup> Watts) |
| Output Electrical Frequency             | 50 Hz or 60 Hz                                    | 50 Hz or 60 Hz                                    |

<sup>1</sup> test data from an independent consultant for the Enercon E82 and E101 models are provided in Appendix D for operating windspeed.

<sup>2</sup> Additional information on sound power data from Enercon dated April 15, 2014 included in Appendix G

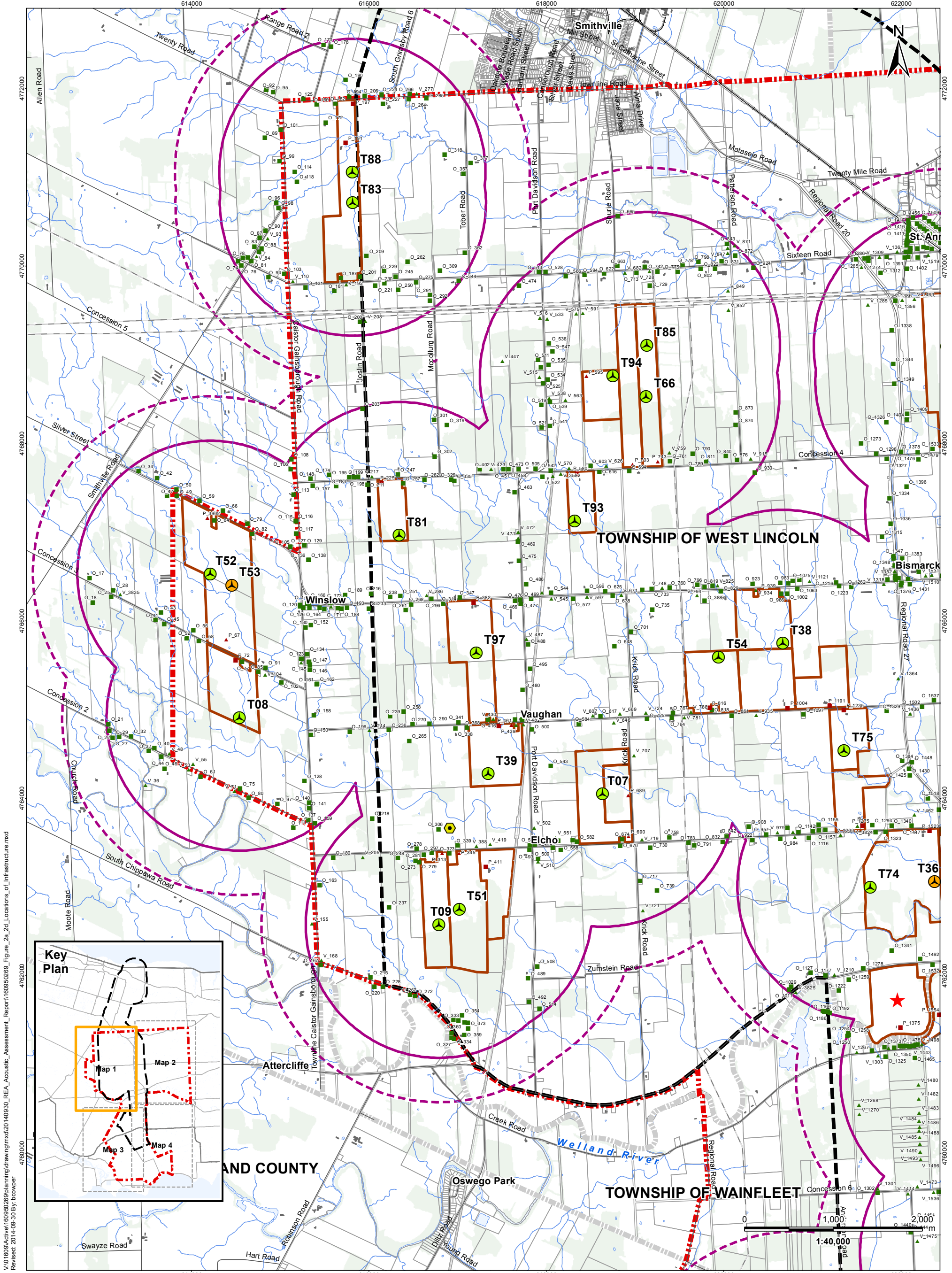
**2.4 OPERATION SCENARIO**

The wind farm will operate throughout the year during the daytime and night-time hours when favorable wind conditions exist. The facility is expected to operate 7 days a week throughout the year. A project layout diagram is included in **Appendix B**. The noise emissions for the layout shown in Figure 2.1 were assessed for hub heights of 124 m and 135 m as follows:

1. Among the 80 WTGs, nine turbines will have a hub height of 135 m and the rest will have a hub height of 124 m. In addition among the nine 135 m hub height WTGs, three will be ENERCON E82 turbine models. All other WTGs will be ENERCON E101 model.

Previous submissions of the Noise Assessment Report included two potential turbine scenarios with turbines proposed at different hub heights (i.e. Scenario 1 included a mix of hub heights (124 m and 135 m) while Scenario 2 proposed all turbines at a hub height of 135 m). Both scenarios were assessed to comply with the MOE noise requirements. However, in order clarify the tower heights being proposed for this Project, Scenario 1 has been selected for this Project. As such, the above noted operation scenarios has been assessed (as listed in Table 3.5).





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**Legend**

- |  |                            |  |
|--|----------------------------|--|
| Project Study Area                               | Road                       | Occupied   |
| Interconnector Study Area                        | Expressway / Highway       | Vacant   |
| Proposed Turbine Location (E101)                 | Active Railway             | <b>Non-participating Noise Receptors</b>   |
| Proposed Turbine Location (E82)                  | Abandoned Railway          | Occupied   |
| Transformer Substation                           | Existing Transmission Line | Vacant   |
| Tap-in Location                                  | Existing Structures        | <b>Notes</b>   |
| Existing Met Tower                               | Watercourse                | 1. Coordinate System: NAD 1983 UTM Zone 17N  |
| 1.5 km Radius from Proposed Turbine Centre Point | Waterbody                  | 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.  |
| 2km Radius from Proposed Turbine Centre Point    | Wooded Area                | 3. Scenario 1 – T36, T46, T53 are E82 model at hub height 135 metre; T18, T45, T47, T55, T60 and T74 are E101 model at hub height 135 metre and the rest are E101 model at hub height 124 metre. |
|  | Municipal Boundary         | Scenario 2 - T36, T46, T53 are E82 model at hub height 135 metre; and the rest are E101 model at hub height 135 metre.   |

**Participating Noise Receptors**  
 ■ Occupied  
 ▲ Vacant  
**Non-participating Noise Receptors**  
 ■ Occupied  
 ▲ Vacant

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 Niagara Region Wind Farm  
 Acoustic Assessment Report

Figure No.  
 2.1a

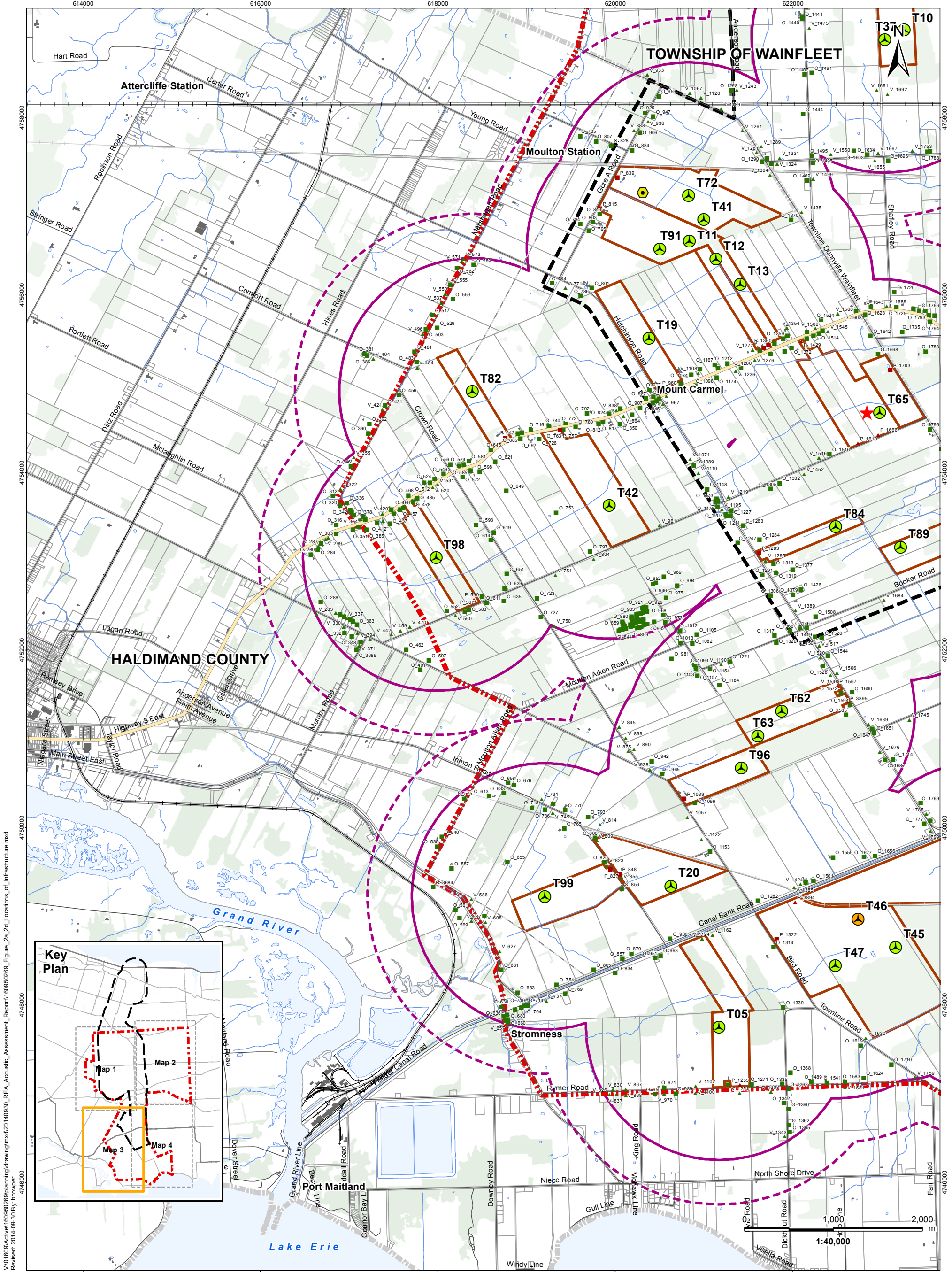
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**Locations of Project Infrastructure within Study Area: Map 1 of 4**

September 2014  
 160950269









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**Legend**

- Project Study Area
- Interconnector Study Area
- Proposed Turbine Location (E101)
- Proposed Turbine Location (E82)
- Transformer Substation
- Tap-in Location
- Existing Met Tower
- 1.5 km Radius from Proposed Turbine Centre Point
- 2km Radius from Proposed Turbine Centre Point
- Road
- Expressway / Highway
- Active Railway
- Abandoned Railway
- Existing Transmission Line
- Existing Structures
- Watercourse
- Waterbody
- Wooded Area
- Municipal Boundary

**Participating Noise Receptors**

- Occupied
- Vacant

**Non-participating Noise Receptors**

- Occupied
- Vacant

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.
3. Scenario 1 – T36, T46, T53 are E82 model at hub height 135 metre; T18, T45, T47, T55, T60 and T74 are E101 model at hub height 135 metre and the rest are E101 model at hub height 124 metre.  
Scenario 2 - T36, T46, T53 are E82 model at hub height 135 metre; and the rest are E101 model at hub height 135 metre.

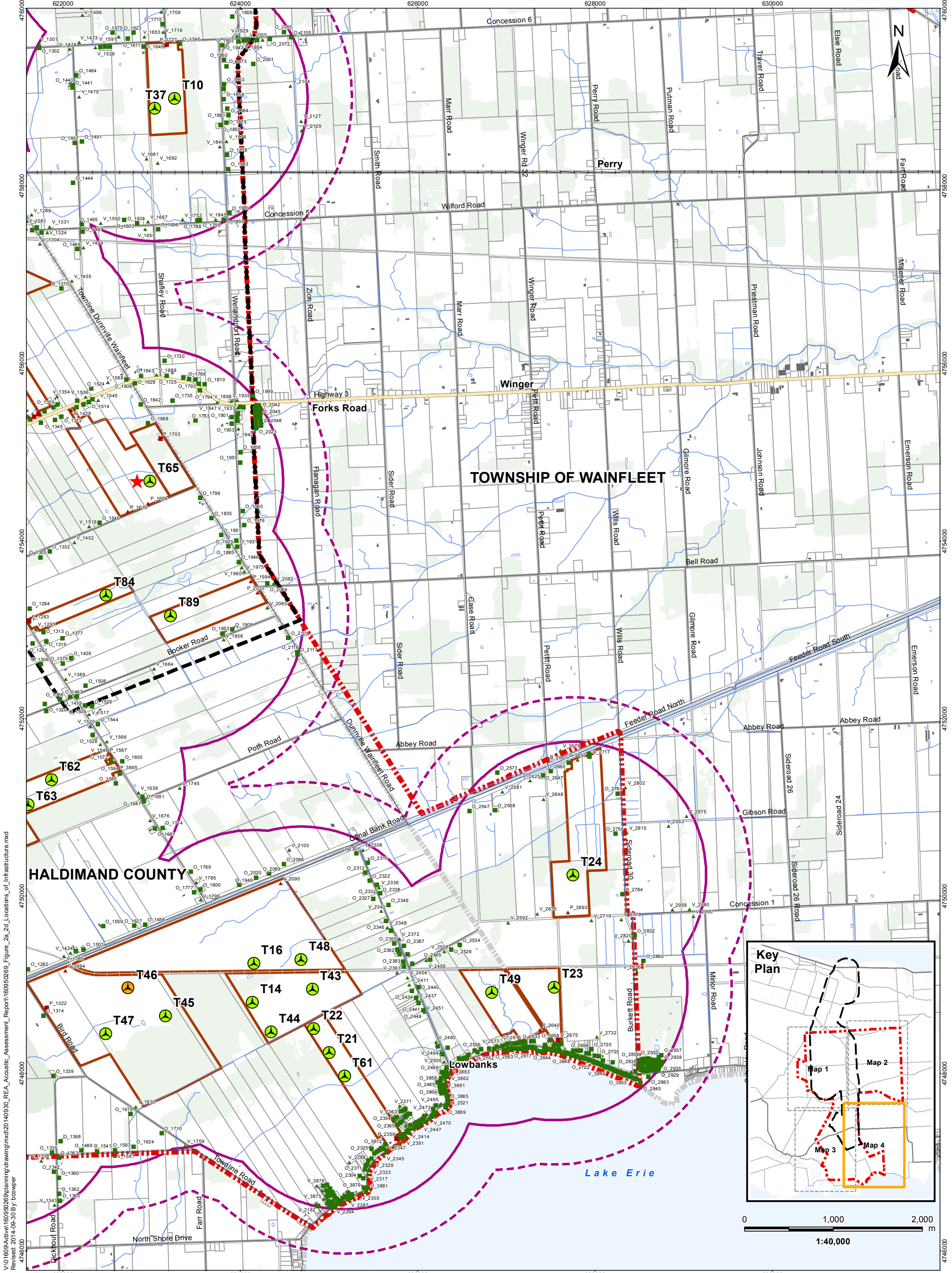
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 Acoustic Assessment Report

Figure No.  
 2.1c

Title  
**Locations of Project Infrastructure within Study Area: Map 3 of 4**

September 2014  
 160950269





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**Legend**

- Project Study Area
- Interconnector Study Area
- Proposed Turbine Location (E101)
- Proposed Turbine Location (E82)
- ★ Transformer Substation
- ☆ Tap-in Location
- Existing Met Tower
- 1.5 km Radius from Proposed Turbine Centre Point
- 2km Radius from Proposed Turbine Centre Point
- Road
- Expressway / Highway
- Active Railway
- Abandoned Railway
- Existing Transmission Line
- Existing Structures
- Watercourse
- Waterbody
- Wooded Area
- Municipal Boundary

**Participating Noise Receptors**

- Occupied
- ▲ Vacant

**Non-participating Noise Receptors**

- Occupied
- ▲ Vacant

**Notes**

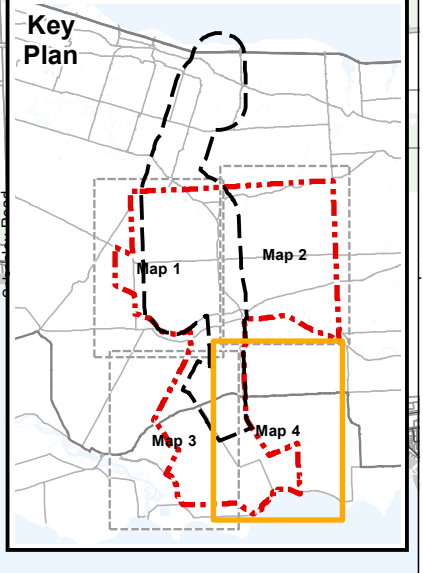
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.
3. Scenario 1 – T36, T46, T53 are E82 model at hub height 135 metre; T18, T45, T47, T55, T60 and T74 are E101 model at hub height 135 metre and the rest are E101 model at hub height 124 metre.
- Scenario 2 - T36, T46, T53 are E82 model at hub height 135 metre; and the rest are E101 model at hub height 135 metre.

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 Acoustic Assessment Report

Figure No.  
 2.1d

Title

**Locations of Project Infrastructure within Study Area: Map 4 of 4**



0 1,000 2,000 m  
 1:40,000

September 2014  
 160950269

## 3.0 Noise Source Summary

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### 3.1 NOISE SOURCES

For the purpose of this Acoustic Assessment Report, the noise sources associated with the wind facility will consist of 80 WTGs (77 ENERCON E101 model rated at 3 MW and 3 ENERCON E82 model rated at 2.3 MW), and two 100 MVA (100/133/166 ONAN/ONAF/ONAF MVA transformers); each of the transformers will be located at different transformer substation locations. WTGs will operate throughout the year when wind conditions at hub height are within cut-in (2.5 m/s) and cut-out wind speeds (28 - 34 m/s). The noise sources associated with the WTGs were assessed for the scenario described in Section 2.4, and additional WTG specifications are provided in Table 2.1. The noise sources associated with both substation transformers were assessed at a height of 3.7 m at the identified locations. It was conservatively assumed that all equipment will operate at full rated capacity during the predictable worst case hour.

As discussed previously, three (3) of the turbines will be ENERCON E82 model and the remainder are ENERCON E101 model to meet the contractual requirements of the Project (maximum capacity not to exceed 230 MW).

Power is transferred from each turbine through an overhead and/or underground collection system to one of two transformer substations. Where two or more collector lines connect and continue as one collector line, a junction box or pad-mounted disconnect switch will be installed. These units are enclosed metal boxes approximately 2 m high, 3 m long and 2 m wide. There is no noise emission sources associated with the junction boxes.

The typical substation components include an isolation switch, circuit breakers, control and operation equipment. Transformers at both substations will be within confined boundaries. Noise emissions from these two 100 MVA transformers are assumed to have a distinct tonal character and were therefore assessed with a 5 dB penalty in the study.

At the transformer substations, voltage is stepped up from 34.5 kV to 115 kV. These transformers will each be rated 100 MVA (100/133/166 ONAN/ONAF/ONAF MVA transformers) as a base rating, with two stages of cooling (via fan). From the transformer substations, the power will be transferred via an overhead transmission line to interconnect with Hydro One Networks Inc's (HONI) transmission system at the tap-in location in the north end of the Interconnector Study Area. There are no noise sources associated with the collector and transmission lines.

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Noise Source Summary  
September 30, 2014

Table 3.1 provides detailed sound emission data for the ENERCON 101 and E82 model WTGs and the corresponding test data from an independent consultant (KÖTTER Consulting Engineers) engaged by the manufacturer (Enercon) is provided in Appendix D. Supplemental information confirming sound power data was provided by Enercon in April 2014 and has been included in Appendix G.

Table 3.2 provides the representative sound emission data from test data used in the analysis. Table 3.3 provides detailed sound emission data for the transformer substations. The noise sources for this Project are summarized in the Table 3.4 and illustrated in Figure 2.1. The UTM coordinates of each WTG and transformer substation are provided in Table 3.5 and Table 3.6. All sources are assumed to have continuous emissions when operating.

The sound power levels resulting from the operation of the transformers were estimated using the procedures outlined in the NEMA standard (NEMA PTR 1-1993 (R2000)). The approximate size of the transformers (100/133/166 ONAN/ONAF/ONAF MVA) was provided by the Study Team and used to estimate the sound power level. This calculation can be found in **Appendix D**. The transformer sound emission data is provided in Table 3.3.

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Noise Source Summary

September 30, 2014

**Table 3.1 Wind Turbine Sound Emission Summary**

**Make: ENERCON**  
**Model: E101**  
**Electrical Rating: 3MW**  
**Hub Height: 124 m or 135 m**  
**Data Source: Enercon (Appendix D)**

|  |      | Octave Band Sound Power Level (dB ref. 10 <sup>-12</sup> Watts) |                |                |                |                 |
|--|------|---|----------------|----------------|----------------|-----------------|
| 10m Height Wind Speed (m/s)                |      | 6 <sup>1</sup>  | 7 <sup>1</sup> | 8 <sup>1</sup> | 9 <sup>1</sup> | 10 <sup>2</sup> |
| Frequency (Hz)                             | 63   | 111.3   | 112            | 112.4          | 112.3          | 112.5           |
|  | 125  | 106.5   | 107.2          | 107.6          | 107.5          | 107.7           |
|  | 250  | 106   | 106.7          | 107.1          | 107            | 107.2           |
|  | 500  | 102.8   | 103.5          | 103.9          | 103.8          | 104.0           |
|  | 1000 | 97.1  | 97.8           | 98.2           | 98.1           | 98.3            |
|  | 2000 | 90.4  | 91.1           | 91.5           | 91.4           | 91.6            |
|  | 4000 | 83.7  | 84.4           | 84.8           | 84.7           | 85.0            |
|  | 8000 | 73.2  | 73.9           | 74.3           | 74.2           | 74.4            |
| Overall (dBA ref. 10 <sup>-12</sup> Watts) |      | 103.6   | 104.3          | 104.7          | 104.6          | 104.8           |

**Make: ENERCON**  
**Model: E82**  
**Electrical Rating: 2.3MW**  
**Hub Height: 135 m**  
**Data Source: Enercon (Appendix D)**

|  |      | Octave Band Sound Power Level (dB ref. 10 <sup>-12</sup> Watts) |       |       |       |       |
|--|------|---|-------|-------|-------|-------|
| 10m Height Wind Speed (m/s)                |      | 6   | 7     | 8     | 9     | 10    |
| Frequency (Hz)                             | 63   | 111.1   | 111.7 | 111.8 | 112.8 | 113.2 |
|  | 125  | 106.7   | 108.9 | 109.3 | 110.7 | 110.7 |
|  | 250  | 100.6   | 102.8 | 103.2 | 102.9 | 102.3 |
|  | 500  | 98.9  | 100.8 | 101.4 | 100.5 | 99.7  |
|  | 1000 | 95.9  | 97.7  | 98.5  | 98.7  | 98.3  |
|  | 2000 | 87.8  | 90.2  | 91.0  | 92.6  | 92.8  |
|  | 4000 | 74.8  | 77.5  | 78.4  | 80.5  | 81.5  |
|  | 8000 | 76.5  | 75.5  | 74.5  | 74.5  | 76.3  |
| Overall (dBA ref. 10 <sup>-12</sup> Watts) |      | 100.6   | 102.6 | 103.2 | 103.3 | 102.9 |

<sup>1</sup> As per the data, overall sound power data is available from 6 m/s (corresponding to 1414 kW or approximately 38% of the rated power) to 9 m/s (corresponding to 2987 kW or approximately 99.6% of the rated power of 3MW). As per the test, the maximum sound power level occurs at 8.3 m/s wind speed and corresponding spectral data is given in the data sheet. The spectral data for other wind speed were obtained by scaling based on the overall data.

<sup>2</sup> No data was given previously for the 10 m/s wind speed since the turbine reaches 95% of rated power output at 8.3 m/s wind speed. For this model the attached test report indicates that the maximum sound power level occurs at 8.3 m/s wind speed and Enercon confirms that this level will not be exceeded. The maximum sound power level as provided from manufacturer was used (Appendix D, G). A wind shear adjusted sound data is provided in Appendix F.



**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Noise Source Summary  
September 30, 2014

**Table 3.2 Highest Wind Turbine Sound Emission Corresponding to 95% or above Rated Electrical Output Power**

| Description                         | Octave Band Sound Power Level (dB ref. 10-12 Watts) |       |       |       |      |      |      |      |                 |
|-------------------------------------|---|-------|-------|-------|------|------|------|------|-----------------|
|                                     | 63  | 125   | 250   | 500   | 1k   | 2k   | 4k   | 8k   | dB/dBA          |
| ENERCON model E101 model at 8.3 m/s | 112.5   | 107.7 | 107.2 | 104.0 | 98.3 | 91.6 | 85   | 74.4 | 113.9/<br>104.8 |
| ENERCON model E82 model at 9 m/s    | 112.8   | 110.8 | 103   | 100.5 | 98.7 | 92.6 | 80.5 | 74.5 | 115.5/<br>103.3 |

**Table 3.3 Substation Transformer Sound Emission Data**

| Description   | Octave band center frequency [Hz] |     |     |     |    |    |    |    |            |
|---|-----------------------------------|-----|-----|-----|----|----|----|----|------------|
|   | 63                                | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB/dBA     |
| 100/133/166 ONAN/ONAF/ONAF MVA Transformers Sound power Levels [dB ref 10 <sup>-12</sup> watt]* | 94                                | 100 | 102 | 97  | 97 | 91 | 86 | 81 | 104.1/98.2 |

\*A 5 dBA penalty was applied to transformer component of sound pressure level at each POR as discussed below.

**Table 3.4 Noise Source Summary Table**

| Source ID                           | Source Type <sup>1</sup> | Source Description     | Sound Power Level [dBA] | Source Location (I/O) <sup>2</sup> | Sound Characteristics <sup>3,5</sup> | Noise Control Measures <sup>4</sup> |
|-------------------------------------|--------------------------|------------------------|-------------------------|------------------------------------|--------------------------------------|-------------------------------------|
| T36, T46, & T53                     | P                        | ENERCON model E82 WTG  | 103.3                   | O                                  | S                                    | U                                   |
| All Turbines except T36, T46, & T53 | P                        | ENERCON model E101 WTG | 104.8                   | O                                  | S                                    | U                                   |
| TR1 & TR2                           | P                        | 100 MVA Transformer    | 98(T)                   | O                                  | T                                    | B                                   |

1. P = Point Source V = Vertical Source VA = Vertical Area Source
2. Source Location: O = outside of building; I = inside of building
3. Sound Character, per NPC-104:
 

|             |                            |
|-------------|----------------------------|
| T = Tonal   | C = Cyclical               |
| S = Steady  | Q = Quasi-Steady Impulsive |
| B = Buzzing | I = Impulsive              |
4. Noise Control Measures:
 

|                             |             |
|-----------------------------|-------------|
| S = Silencer/Muffler        | L = Lagging |
| A = Acoustic Lining, plenum | O = Other   |
| U = Uncontrolled            | B = Barrier |
| E = Acoustic Enclosure      |             |
5. Includes 5 dB penalty for tonality, for source marked with T

## NIAGARA REGION WIND FARM NOISE ASSESSMENT REPORT

Noise Source Summary

September 30, 2014

**Table 3.5 Wind Turbine Locations**

| Turbine Identifier | Make and Model | Hub Height [m] | Location Coordinates (UTM 17 NAD 83) |                |
|--------------------|----------------|----------------|--------------------------------------|----------------|
|                    |                |                | X – Easting [m]                      | Y-Northing [m] |
| T01                | ENERCON E101   | 124            | 622986                               | 4765745        |
| T02                | ENERCON E101   | 124            | 627380                               | 4765942        |
| T03                | ENERCON E101   | 124            | 629891                               | 4763588        |
| T04                | ENERCON E101   | 124            | 627524                               | 4767740        |
| T05                | ENERCON E101   | 124            | 621171                               | 4747754        |
| T06                | ENERCON E101   | 124            | 623096                               | 4767244        |
| T07                | ENERCON E101   | 124            | 618636                               | 4764053        |
| T08                | ENERCON E101   | 124            | 614545                               | 4764911        |
| T09                | ENERCON E101   | 124            | 616790                               | 4762576        |
| T10                | ENERCON E101   | 124            | 623259                               | 4758990        |
| T11                | ENERCON E101   | 124            | 620836                               | 4756609        |
| T12                | ENERCON E101   | 124            | 621135                               | 4756407        |
| T13                | ENERCON E101   | 124            | 621410                               | 4756122        |
| T14                | ENERCON E101   | 124            | 624137                               | 4748807        |
| T16                | ENERCON E101   | 124            | 624153                               | 4749243        |
| T18                | ENERCON E101   | 135            | 630123                               | 4766229        |
| T19                | ENERCON E101   | 124            | 620380                               | 4755516        |
| T20                | ENERCON E101   | 124            | 620627                               | 4749341        |
| T21                | ENERCON E101   | 124            | 625004                               | 4748242        |
| T22                | ENERCON E101   | 124            | 624829                               | 4748510        |
| T23                | ENERCON E101   | 124            | 627540                               | 4748974        |
| T24                | ENERCON E101   | 124            | 627752                               | 4750239        |
| T27                | ENERCON E101   | 124            | 622535                               | 4768708        |
| T28                | ENERCON E101   | 124            | 622517                               | 4769096        |
| T29                | ENERCON E101   | 124            | 628498                               | 4763100        |
| T31                | ENERCON E101   | 124            | 625150                               | 4765821        |
| T32                | ENERCON E101   | 124            | 624781                               | 4764410        |
| T33                | ENERCON E101   | 124            | 626969                               | 4765950        |
| T34                | ENERCON E101   | 124            | 626486                               | 4764591        |
| T35                | ENERCON E101   | 124            | 627164                               | 4764483        |
| T36                | ENERCON E82    | 135            | 622379                               | 4763063        |
| T37                | ENERCON E101   | 124            | 623038                               | 4758881        |
| T38                | ENERCON E101   | 124            | 620669                               | 4765752        |
| T39                | ENERCON E101   | 124            | 617349                               | 4764279        |
| T41                | ENERCON E101   | 124            | 620998                               | 4756851        |
| T42                | ENERCON E101   | 124            | 619935                               | 4753628        |
| T43                | ENERCON E101   | 124            | 624815                               | 4748952        |
| T44                | ENERCON E101   | 124            | 624350                               | 4748471        |
| T45                | ENERCON E101   | 135            | 623160                               | 4748650        |



**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Noise Source Summary

September 30, 2014

**Table 3.5 Wind Turbine Locations**

| Turbine Identifier | Make and Model | Hub Height [m] | Location Coordinates (UTM 17 NAD 83) |                |
|--------------------|----------------|----------------|--------------------------------------|----------------|
|                    |                |                | X – Easting [m]                      | Y-Northing [m] |
| T46                | ENERCON E82    | 135            | 622737                               | 4748968        |
| T47                | ENERCON E101   | 135            | 622483                               | 4748447        |
| T48                | ENERCON E101   | 124            | 624687                               | 4749283        |
| T49                | ENERCON E101   | 124            | 626836                               | 4748915        |
| T51                | ENERCON E101   | 124            | 617020                               | 4762752        |
| T52                | ENERCON E101   | 124            | 614215                               | 4766531        |
| T53                | ENERCON E82    | 135            | 614456                               | 4766402        |
| T54                | ENERCON E101   | 124            | 619944                               | 4765594        |
| T55                | ENERCON E101   | 135            | 623610                               | 4764393        |
| T56                | ENERCON E101   | 124            | 626599                               | 4768825        |
| T57                | ENERCON E101   | 124            | 624435                               | 4768696        |
| T58                | ENERCON E101   | 124            | 628473                               | 4767629        |
| T59                | ENERCON E101   | 124            | 629964                               | 4767676        |
| T60                | ENERCON E101   | 135            | 630277                               | 4767682        |
| T61                | ENERCON E101   | 124            | 625177                               | 4747970        |
| T62                | ENERCON E101   | 124            | 621877                               | 4751311        |
| T63                | ENERCON E101   | 124            | 621609                               | 4751032        |
| T65                | ENERCON E101   | 124            | 622984                               | 4754679        |
| T66                | ENERCON E101   | 124            | 619127                               | 4768529        |
| T72                | ENERCON E101   | 124            | 620828                               | 4757122        |
| T74                | ENERCON E101   | 135            | 621656                               | 4763002        |
| T75                | ENERCON E101   | 124            | 621357                               | 4764543        |
| T76                | ENERCON E101   | 124            | 623640                               | 4765719        |
| T78                | ENERCON E101   | 124            | 628581                               | 4764783        |
| T79                | ENERCON E101   | 124            | 630384                               | 4771637        |
| T80                | ENERCON E101   | 124            | 630186                               | 4771984        |
| T81                | ENERCON E101   | 124            | 616343                               | 4766967        |
| T82                | ENERCON E101   | 124            | 618390                               | 4754915        |
| T83                | ENERCON E101   | 124            | 615821                               | 4770715        |
| T84                | ENERCON E101   | 124            | 622487                               | 4753393        |
| T85                | ENERCON E101   | 124            | 619136                               | 4769108        |
| T88                | ENERCON E101   | 124            | 615816                               | 4771059        |
| T89                | ENERCON E101   | 124            | 623216                               | 4753160        |
| T91                | ENERCON E101   | 124            | 620504                               | 4756521        |
| T93                | ENERCON E101   | 124            | 618324                               | 4767127        |
| T94                | ENERCON E101   | 124            | 618752                               | 4768764        |

## NIAGARA REGION WIND FARM NOISE ASSESSMENT REPORT

Noise Source Summary

September 30, 2014

**Table 3.5 Wind Turbine Locations**

| Turbine Identifier | Make and Model | Hub Height [m] | Location Coordinates (UTM 17 NAD 83) |                |
|--------------------|----------------|----------------|--------------------------------------|----------------|
|                    |                |                | X – Easting [m]                      | Y-Northing [m] |
| T95                | ENERCON E101   | 124            | 622817                               | 4760851        |
| T96                | ENERCON E101   | 124            | 621423                               | 4750668        |
| T97                | ENERCON E101   | 124            | 617215                               | 4765642        |
| T98                | ENERCON E101   | 124            | 617982                               | 4753043        |
| T99                | ENERCON E101   | 124            | 619208                               | 4749224        |

**Table 3.6 Substation Transformer Locations**

| Transformer Identifier | Transformer Type                                  | Height [m] | Location Coordinates (UTM 17 NAD 83) |                |
|------------------------|---|------------|--------------------------------------|----------------|
|                        |   |            | X – Easting [m]                      | Y-Northing [m] |
| ST1                    | 100/133/166 ONAN/ONAF/ONAF<br>MVA MVA Transformer | 3.7        | 621960                               | 4761728        |
| ST2                    | 100/133/166 ONAN/ONAF/ONAF<br>MVA MVA Transformer | 3.7        | 622837                               | 4754679        |

### 3.2 SOUND CHARACTER ADJUSTMENTS

The MOE guideline NPC-104 outlines that the sources with distinct sound characteristics are to be penalized in the assessment. In accordance with this guideline, the resulting noise emissions associated with transformers were penalized by 5 dB to account for potential hum from transformer coils.

### 3.3 CUMULATIVE EFFECTS

As per the guideline requirements, cumulative effects due to other existing or crystallized wind farms have been included in this assessment. Four other existing or proposed wind farms were identified and included as having components within 5.0 km of the project WTGs. Existing turbines within this setback include the Mohawk wind farm located to the south of the project and the Rosa Flora wind turbine to the west of the project. Wind energy projects currently in development (either proposed or approved) within the 5 km setback distance include the HAF Wind Energy project to the west of the Project, the Wainfleet wind energy project to the southeast and the Grand Renewable Energy Project to the southwest. Details of these projects are included in Table 3.7 and Table 3.8. Additional wind farms considered but not included in this assessment as they were outside of the required 5 km setback include the Byng Wind Project and the Summerhaven Wind Energy Centre.

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Noise Source Summary

September 30, 2014

**Table 3.7 Adjacent Wind Farms within 5 km of the Project**

| Wind farm identifier           | Existing/ Approved | Turbine Model         | Number of Turbines | Number of Turbines within 5 km of the Project |
|--------------------------------|--------------------|-----------------------|--------------------|---|
| Mohawk Wind Farm               | Existing           | V82-1.65 MW-Vestas    | 6                  | 6   |
| HAF Wind Energy                | Proposed           | V100 1.8 MW           | 5                  | 5   |
| Wainfleet Wind Energy          | Proposed           | V100 1.8 MW           | 5                  | 5   |
| Rosa Flora Turbine             | Existing           | PWE 650               | 1                  | 1   |
| Grand Renewable Energy Project | Proposed           | SWT-2.221-101 Siemens | 67                 | 6   |

The following table provides the location and coordinates of the adjacent wind turbines that were considered in the noise assessment. The location (UTM coordinates), and the sound data were taken from reports and developers submittals (refer Appendix F for details).

**Table 3.8 Assessed Noise Sources Associated with Adjacent or Proposed Wind Farms within 5 km**

| Source ID | Source Description                  | Sound Power Level [dBA] | UTM Coordinates |         |       |
|-----------|-------------------------------------|-------------------------|-----------------|---------|-------|
|           |                                     |                         | X [m]           | Y [m]   | Z [m] |
| HAF01     | HAF01(HAF Wind Energy Project)      | 105                     | 604702          | 4775503 | 95    |
| HAF02     | HAF02(HAF Wind Energy Project)      | 105                     | 604889          | 4775137 | 95    |
| HAF03     | HAF03(HAF Wind Energy Project)      | 105                     | 606276          | 4774896 | 95    |
| HAF04     | HAF04(HAF Wind Energy Project)      | 105                     | 604359          | 4774307 | 95    |
| HAF05     | HAF05(HAF Wind Energy Project)      | 105                     | 606208          | 4773395 | 95    |
| MH01      | Mohawk01(V82-1.65 MW-Vestas)        | 102                     | 623355          | 4745400 | 80    |
| MH02      | Mohawk02(V82-1.65 MW-Vestas)        | 102                     | 622632          | 4746480 | 80    |
| MH03      | Mohawk03(V82-1.65 MW-Vestas)        | 102                     | 623974          | 4745737 | 80    |
| MH04      | Mohawk04(V82-1.65 MW-Vestas)        | 102                     | 623297          | 4746604 | 80    |
| MH05      | Mohawk05(V82-1.65 MW-Vestas)        | 102                     | 623047          | 4746843 | 80    |
| MH06      | Mohawk06(V82-1.65 MW-Vestas)        | 102                     | 622661          | 4745529 | 80    |
| WF01      | WF01(Wainfleet Wind Energy Project) | 105                     | 631359          | 4751252 | 95    |
| WF02      | WF02(Wainfleet Wind Energy Project) | 105                     | 631758          | 4750750 | 95    |
| WF03      | WF03(Wainfleet Wind Energy Project) | 105                     | 631921          | 4750541 | 95    |
| WF04      | WF04(Wainfleet Wind Energy Project) | 105                     | 632750          | 4748389 | 95    |
| WF05      | WF05(Wainfleet Wind Energy Project) | 105                     | 632706          | 4748817 | 95    |

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Noise Source Summary

September 30, 2014

**Table 3.8 Assessed Noise Sources Associated with Adjacent or Proposed Wind Farms within 5 km**

| Source ID | Source Description              | Sound Power Level [dBA] | UTM Coordinates |         |       |
|-----------|---------------------------------|-------------------------|-----------------|---------|-------|
|           |                                 |                         | X [m]           | Y [m]   | Z [m] |
| RF        | Rosa Flora Turbine              | 103.5                   | 615270          | 4756417 | 75    |
| GREPT57   | SWT-2.221-101 - Grand Renewable | 105                     | 614355          | 4748118 | 100   |
| GREPT58   | SWT-2.221-101 - Grand Renewable | 105                     | 614974          | 4747470 | 100   |
| GREPT59   | SWT-2.221-101 - Grand Renewable | 105                     | 614326          | 4747732 | 100   |
| GREPT60   | SWT-2.221-101 - Grand Renewable | 105                     | 614680          | 4748176 | 100   |
| GREPT61   | SWT-2.221-101 - Grand Renewable | 105                     | 614750          | 4747811 | 100   |
| GREPT62   | SWT-2.221-101 - Grand Renewable | 105                     | 614705          | 4747338 | 100   |

- Grand Renewable Locations and data are based on Noise Assessment report by Zephyr North dated July 11, 2011;
- Mohawk location is based on construction drawing (Appendix F) and manufacturer's data (Appendix F);
- HAF Wind Energy project Locations and data are based REA report package dated November 26, 2010;
- WainFleet Wind Energy Project is based on REA package dated November, 2010; and
- Rosa Flora: This is a single small turbine. The location is based on as built location and the sound data was taken as 103.5 dBA (slightly higher than a 2.3 MW E82 model turbine). This turbine is located approximately 3,500 metres away from NRWC's nearest turbine. In addition, this is a 650 kW turbine that does not feed into the Ontario grid (i.e. electricity is delivered directly into the Rosa Flora system). Therefore, the assumption is considered very conservative. This turbine is included for completeness.

## **4.0 Points of Reception**

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### **4.1 DEFINITION OF A POINT OF RECEPTION**

Points of Reception (PORs) were categorized into four groups for the assessment:

1. Non-participating occupied receptors – an existing building or structure that contains one or more dwellings, an existing building or structure used for an institutional purpose (i.e., education facility, nursery, health care facility, place of worship), a campsite or campground;
2. Non-participating vacant lot receptors – a lot with no existing building or structure containing a dwelling or institutional facility (i.e. not currently used as a dwelling or institutional facility) but is zoned to permit a building which could be a dwelling or institutional facility;
3. Participating occupied receptors – an existing building or structure that contains one or more dwellings and is on the same legal property as proposed Project components; and,
4. Participating vacant lot receptors - a lot with no existing building or structure containing a dwelling or institution facility but is zoned to permit a building which could be a dwelling or institutional facility and is on the same legal property as proposed Project components.

Receptors were defined based on field verifications, review of parcel data, information from planners of respective Townships or Counties, and recent aerial imagery. Stantec undertook extensive field verification to validate existing occupied PORs. All non-participating and participating receptors within 2 km of the Project WTGs as of the date August 15, 2012, are identified as receptors in this report as per O.Reg 359/09 Section 54 (1.4). On August 15, 2012, the layout of the Project turbines and all receptors were crystallized through the publication of the WTG coordinates and receptors in a Draft Site Plan Report in local newspapers and online.

The PORs were provided with a unique numbering system in the form of X\_### (e.g. P\_2587). In this identification system the character X represents the following:

- 'O' represents **non-participating occupied** receptors;
- 'V' represents **non-participating vacant lot** receptors; and,
- 'P' represents **participating occupied/vacant lot** receptors;

Whereas the numbers ### – represents a unique identification number for each receptor. Additional rational for individual receptors that were referenced in MOE and EBR comments are included in **Appendix G**.

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Points of Reception  
September 30, 2014

The noise guideline (PIBs 4709) requires that PORs be identified on vacant lots that have been zoned by the local municipality to permit residential or similar noise-sensitive uses. The legal lot/parcel data were used to determine the lot boundaries and thereby identify all vacant lots within 2 km of the Project. All vacant lots were assigned a unique POR identification number. The points of assessment for vacant lots were chosen to match the local development patterns.

**4.2 EXISTING POINTS OF RECEPTION**

All non-participating PORs meet or exceed the minimum requirement of 550 metre setback requirement from the centre point of the WTGs. All receptors were modeled using a height of 4.5 meters. The type and coordinates of the receptors are summarized in **Appendix C**.

Figure 1.1 and Figure 2.1 show the locations of all PORs within 2 km of the WTGs as required by Section 6.1 of 4709e. As required by Section 6.4.1 of 4709e; the noise assessment considers the sound levels at the 2670 PORs within 1.5 km of the Project WTG locations as described below:

1. 2033 non-participating occupied receptors;
2. 541 non-participating vacant lot receptors; and
3. 96 participating occupied/vacant lot receptors.

For the purposes of this report the ten (10) representative non-participating receptors, which through modeling were predicted to have the highest sound levels as a result of the Project noise sources, are shown in the tables. The locations of these ten (10) receptors are summarized in Table 4.1, and the results for the remaining modeled PORs are provided in **Appendix C**.

**Table 4.1 Nearby Points of Reception**

| POR ID | Description                | UTM Coordinates |         | POR Height (m) | Approximate Distance to Nearest Facility Turbine (m) | Nearest Facility Turbine ID |
|--------|----------------------------|-----------------|---------|----------------|--|-----------------------------|
|        |                            | X               | Y       |                |  |                             |
| O_1097 | Existing occupied dwelling | 620899          | 4764949 | 4.5            | 612  | T75                         |
| O_1153 | Existing occupied dwelling | 621067          | 4749725 |                | 584  | T20                         |
| O_1344 | Existing occupied dwelling | 621910          | 4768894 |                | 640  | T28                         |
| O_1707 | Existing occupied dwelling | 623108          | 4766469 |                | 734  | T01                         |
| O_2160 | Existing occupied dwelling | 624777          | 4765059 |                | 649  | T32                         |
| O_2522 | Existing occupied dwelling | 626354          | 4765297 |                | 718  | T34                         |
| O_2598 | Existing occupied dwelling | 627060          | 4763919 |                | 573  | T35                         |
| O_2690 | Existing occupied dwelling | 627693          | 4764983 |                | 728  | T35                         |
| O_2710 | Existing occupied dwelling | 627899          | 4765540 |                | 657  | T02                         |
| O_3030 | Existing occupied dwelling | 629320          | 4767722 |                | 646  | T59                         |

## 5.0 Noise Assessment Criteria

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### 5.1 MOE GUIDELINE LIMITS

As discussed, the Project and its surroundings are considered to be located in a Class 3 (Rural) acoustical environment. The sounds of the ambient environment are expected to be dominated by natural sounds with little road traffic and minimal industrial activities. There is an industrial facility located in Haldimand County (near Mohawk Wind Farm), which dominates its surroundings. However, noises from this industrial facility are not considered in this assessment.

Table 5.1 shows the performance limits for wind turbines in Class 3 areas as outlined in PIBs 4709e.

**Table 5.1 Wind Turbine Sound Pressure Limits for Class 3 Area**

| Wind Speed at 10 m height [m/s]          | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
|--|------|------|------|------|------|------|------|
| Wind Turbine sound pressure limits [dBA] | 40.0 | 40.0 | 40.0 | 43.0 | 45.0 | 49.0 | 51.0 |

The analysis also includes other requirements from this guideline such as a 5 dB penalty on transformer noise to account for tonality, and use of a ground absorption co-efficient of 0.7 as discussed further in Section 6.1. In addition, the guideline requires that all adjacent wind farm WTGs within 5 km of any Project WTG must be considered for cumulative effects in evaluating sound pressure levels. To assess noise levels for this Project, wind turbine noise emissions were assessed against the most restrictive sound pressure level limit of 40.0 dBA.

## 6.0 Impact Assessment

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### 6.1 METHODOLOGY

A predictive analysis was performed using the commercially available software package CADNA/A, which implements a computerized version of the algorithms described in the ISO 9613 standard. The ISO 9613 model includes geometrical divergence (distance attenuation), barrier effects due to intervening structures, ground effects, atmospheric absorption, and topography. No shielding/barriers such as existing buildings other than the barriers recommended for the transformer substation were considered in the assessment.

All sound sources (turbines and transformers) that emit noise into the environment were modeled as point sources. Topography was included in the model; however, the study area is relatively flat and topography is not expected to have a significant influence on the results. No shielding or obstacles were included in the model other than the barriers recommended for the transformer substations.

The Facility and surrounding ground surfaces were modeled as a combination of reflective and absorptive as specified in the MOE guideline. The analysis utilizes a global ground sound absorption factor of 0.7. Considering the study area is generally agricultural in nature, the actual absorption factor is expected to be closer to 1.0.

Meteorological values as required by PIBs 4709e were used to initialize several parameters in the model. These included a temperature of 10 degrees Centigrade and a relative humidity of 70%. The calculations consider spectral values of the sound data in 1/1 octave bands between 63 Hz and 8000 Hz as discussed in Section 3. As per the requirements of PIBs 4709e, the atmospheric absorption coefficients shown in Table 6.1 were used.

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**Table 6.1 Atmospheric Absorption Coefficient (based on 10 degree Celsius and 70% Relative Humidity)**

| Octave band center frequency [Hz]                      | 63  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|-----|-----|-----|-----|------|------|------|------|
| Recommended atmospheric absorption coefficient [dB/km] | 0.1 | 0.4 | 1.0 | 1.9 | 3.7  | 9.7  | 32.8 | 117  |

As described in Section (Operation Scenario), this assessment considers all WTGs running at full rated capacity for one full hour irrespective of wind conditions. An example of the detailed model calculations is included in **Appendix E**.



## 6.2 RESULTS AND RECOMMENDATIONS

The modeled results (Project effects and cumulative effects) at the identified PORs during predictable worst case operation are provided in Table 6.2 for the selected PORs. For the remaining PORs, a similar table is included in **Appendix C**. The corresponding equivalent sound level contours are provided in Figure 6.1.

Compliance at nearby PORs was established using noise barriers for both of the two 100 MVA transformer substations. The detailed requirements for noise barriers are as follows:

1. Substation ST1 (100/133/166 ONAN/ONAF/ONAF MVA Transformer noise source modeled at a height of 3.7m with UTM Coordinates 621960, 4761728) will require a four sided barrier of 5 metres in height above grade. Barrier corner coordinates are provided in Appendix F
2. Substation ST2 (100/133/166 ONAN/ONAF/ONAF MVA Transformer noise source modeled at a height of 3.7m with UTM Coordinates 622837, 4754679) will require a two sided barrier of 5 metres in height above grade. This barrier should be placed on south and west side of the transformer and extended at least 2 meters beyond the transformer such that noise flanking is negligible. Barrier corner coordinates are provided in Appendix F.

The barrier could be constructed with a variety of different materials including masonry or composite materials provided that they meet electrical and fire safety requirements. The barriers should be constructed within a 2 metre setback from the transformers. The selected material should achieve a minimum surface density of 20 kilograms per square meter ( $\text{kg/m}^2$ ). The barrier should be built considering environmental factors specific to the location such as wind load and snow load so that the barrier is durable and can be maintained with minimal effort. The barrier should be constructed without any gaps within or below its extent.

### 6.2.1 Project and Cumulative Effects

The project and cumulative effects were assessed and the results are shown in the following table. As discussed previously, cumulative effects due to other existing or crystallized wind farms have been included in this assessment. Four other existing or proposed wind farms were identified and included as having components within 5.0 km of the project receptors. Among the four only Mohawk Point Turbines have mutual PORs within 1.5 km from WTGs. A Noise Assessment Report for Mohawk Point Turbines is not available. Based on published locations, model and manufacturers data related to hub height and sound emissions, contributions with and without the Mohawk Point Turbines on mutual PORs were assessed and provided in Table 6.3.

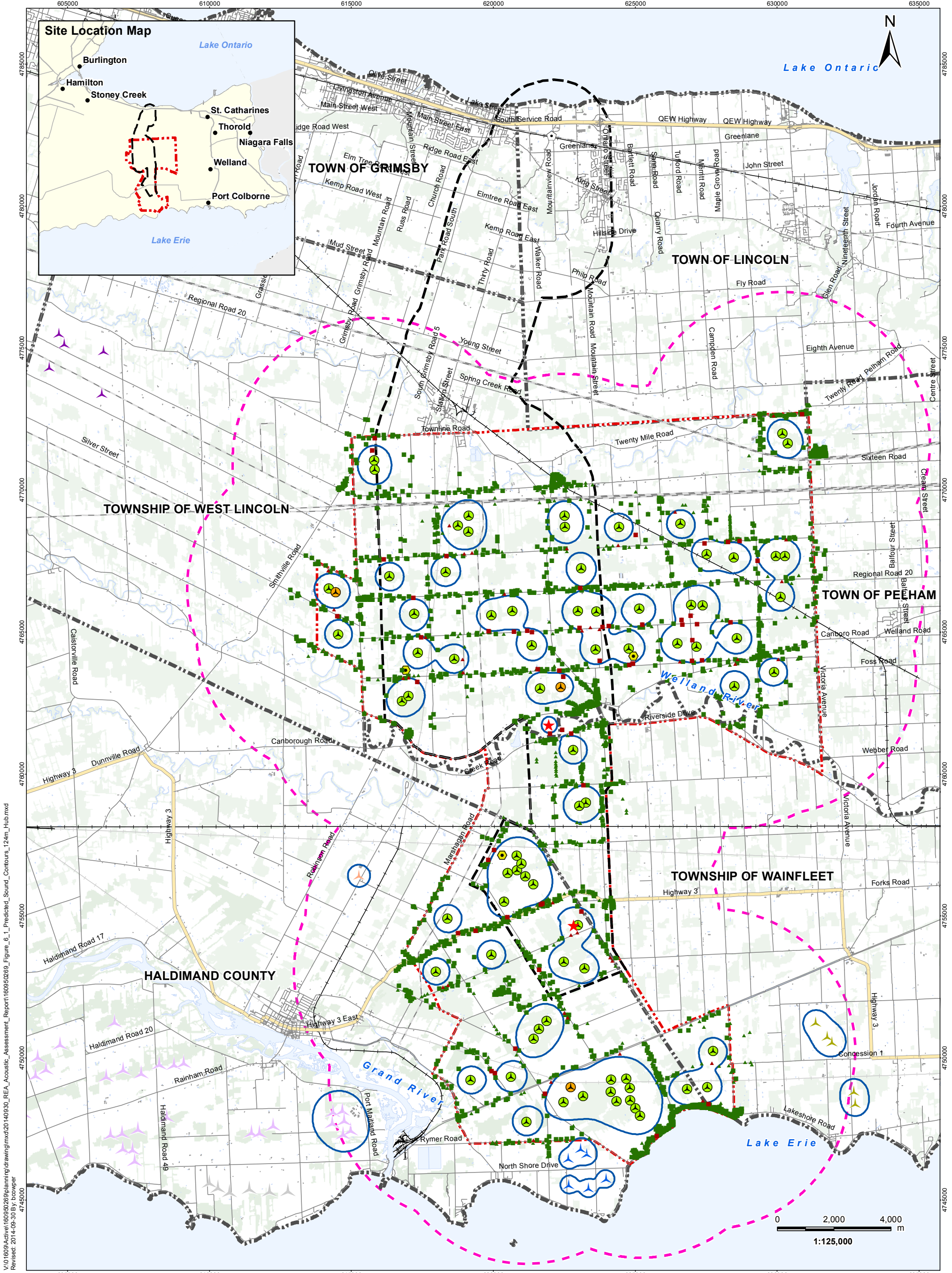
**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Impact Assessment  
September 30, 2014

**Table 6.2 Noise Impact Assessment Summary Table\***

| POR ID | POR Description            | Project Effects - Sound Level at POR (Leq, 4.5m) | Cumulative Effects - Sound Level at POR (Leq, 4.5m) | Performance Limit (Leq, dBA) | Compliance with Performance Limit? (Project/Cumulative) |
|--------|----------------------------|--|---|------------------------------|---|
| O_1097 | Existing occupied dwelling | 40.0   | 40.0  | 40.0                         | Y/Y   |
| O_1153 | Existing occupied dwelling | 40.0   | 40.0  |                              | Y/Y   |
| O_1344 | Existing occupied dwelling | 40.0   | 40.0  |                              | Y/Y   |
| O_1707 | Existing occupied dwelling | 40.0   | 40.0  |                              | Y/Y   |
| O_2160 | Existing occupied dwelling | 40.0   | 40.0  |                              | Y/Y   |
| O_2522 | Existing occupied dwelling | 40.0   | 40.0  |                              | Y/Y   |
| O_2598 | Existing occupied dwelling | 40.0   | 40.0  |                              | Y/Y   |
| O_2690 | Existing occupied dwelling | 40.0   | 40.0  |                              | Y/Y   |
| O_2710 | Existing occupied dwelling | 40.0   | 40.0  |                              | Y/Y   |
| O_3030 | Existing occupied dwelling | 40.0   | 40.0  |                              | Y/Y   |

\* Results for all receptors are provided in **Appendix C**.



V:\101609\Active\160950269\planning\drawing\mxd\20140930\_REA\_Acoustic\_Assessment\_Report\160950269\_Figure\_6.1\_Predicted\_Sound\_Contours\_124m\_Hub.mxd  
 Revised: 2014-09-30 By: bcooper



**Legend**

- |  |                            |          |                               |  |
|--|----------------------------|----------|-------------------------------|--|
| Project Study Area                         | Road                       | Occupied | Participating Noise Receptors | Other Wind Turbines                      |
| Interconnector Study Area                  | Expressway / Highway       | Vacant   | Non-participating Receptors   | Mohawk Wind Farm (Existing)              |
| Proposed Turbine Location (E101)           | Active Railway             | Occupied | Vacant                        | Rosa Flora Turbine (Existing)            |
| Proposed Turbine Location (E82)            | Abandoned Railway          | Occupied |                               | Wainfleet Wind Energy Project (Proposed) |
| Transformer Substation                     | Existing Structures        | Vacant   |                               | HAF Wind Energy Project (Proposed)       |
| Tap-in Location                            | Existing Transmission Line |          |                               | Grand Renewable Energy Park (Proposed)   |
| Existing Met Tower                         | Waterbody                  |          |                               | Other Wind Farm Project (Proposed)       |
| 5km Buffer from Proposed Turbine Locations | Wooded Area                |          |                               |  |
| Sound Level Contours (40 dBA)              | Municipality Lower Tier    |          |                               |  |

**Notes**

- Coordinate System: NAD 1983 UTM Zone 17N
- Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.

Client/Project  
 Niagara Region Wind Corporation  
 Niagara Region Wind Farm  
 Acoustic Assessment Report

Figure No.  
 6.1

Title  
**Predicted Equivalent Sound Level Contours (Cumulative Effects - Day/Nighttime Hours) - Scenario 1**

September 2014  
 160950269



Table 6.3 Concordance Table for all adjacent wind farms - Scenario 1

| POR UTM Coordinates |              | POR ID |         |     |     |      | Distance to nearest source (m) |           |       |       |       | Nearest Source ID |      |     |     |      | Level of Farm (dBA) |      |     |     |      | Level (dBA) |
|---------------------|--------------|--------|---------|-----|-----|------|--------------------------------|-----------|-------|-------|-------|-------------------|------|-----|-----|------|---------------------|------|-----|-----|------|-------------|
| Easting (m)         | Northing (m) | NRWC   | MH      | WF  | RF  | GREP | NRWC                           | MH        | WF    | RF    | GREP  | NRWC              | MH   | WF  | RF  | GREP | NRWC                | MH   | WF  | RF  | GREP | Total       |
| 621267.9            | 4747098.77   | O_1215 | not_avi | n/a | n/a | n/a  | 662.35637                      | 1497.8802 | >2000 | >2000 | >2000 | T05               | MH02 | n/a | n/a | n/a  | 37.5                | 23.7 | n/a | n/a | n/a  | 37.7        |
| 621536.63           | 4747106.47   | O_1271 | not_avi | n/a | n/a | n/a  | 743.62652                      | 1261.8637 | >2000 | >2000 | >2000 | T05               | MH02 | n/a | n/a | n/a  | 36.9                | 25.7 | n/a | n/a | n/a  | 37.2        |
| 621879.3            | 4747111.49   | O_1335 | not_avi | n/a | n/a | n/a  | 956.29911                      | 982.5156  | >2000 | >2000 | >2000 | T05               | MH02 | n/a | n/a | n/a  | 35.8                | 28.7 | n/a | n/a | n/a  | 36.5        |
| 621901.22           | 4746889.27   | O_1342 | not_avi | n/a | n/a | n/a  | 1131.8035                      | 837.58065 | >2000 | >2000 | >2000 | T05               | MH02 | n/a | n/a | n/a  | 34.5                | 30.1 | n/a | n/a | n/a  | 35.8        |
| 621954.32           | 4746822.04   | O_1360 | not_avi | n/a | n/a | n/a  | 1217.4316                      | 759.10575 | >2000 | >2000 | >2000 | T05               | MH02 | n/a | n/a | n/a  | 34.1                | 31.1 | n/a | n/a | n/a  | 35.8        |
| 621958.35           | 4746643.27   | O_1362 | not_avi | n/a | n/a | n/a  | 1361.4849                      | 693.15324 | >2000 | >2000 | >2000 | T05               | MH02 | n/a | n/a | n/a  | 33.2                | 31.9 | n/a | n/a | n/a  | 35.5        |
| 621959.6            | 4747047.77   | O_1363 | not_avi | n/a | n/a | n/a  | 1058.6079                      | 880.04803 | >2000 | >2000 | >2000 | T05               | MH02 | n/a | n/a | n/a  | 35.2                | 29.9 | n/a | n/a | n/a  | 36.3        |
| 621966.59           | 4746565.46   | O_1365 | not_avi | n/a | n/a | n/a  | 1430.2415                      | 670.87546 | >2000 | >2000 | >2000 | T05               | MH02 | n/a | n/a | n/a  | 32.8                | 32.2 | n/a | n/a | n/a  | 35.5        |
| 621975.85           | 4747235.78   | O_1368 | not_avi | n/a | n/a | n/a  | 957.25414                      | 1000.8677 | >2000 | >2000 | >2000 | T05               | MH02 | n/a | n/a | n/a  | 36.2                | 28.8 | n/a | n/a | n/a  | 36.9        |
| 622209.61           | 4747132.76   | O_1489 | not_avi | n/a | n/a | n/a  | 1210.2272                      | 777.50172 | >2000 | >2000 | >2000 | T05               | MH02 | n/a | n/a | n/a  | 35.3                | 31.7 | n/a | n/a | n/a  | 36.8        |
| 622385.54           | 4747127.77   | O_1541 | not_avi | n/a | n/a | n/a  | 1322.7457                      | 693.07179 | >2000 | >2000 | >2000 | T47               | MH02 | n/a | n/a | n/a  | 35.3                | 33.5 | n/a | n/a | n/a  | 37.3        |
| 622589.1            | 4747137.77   | O_1583 | not_avi | n/a | n/a | n/a  | 1313.4629                      | 544.57485 | >2000 | >2000 | >2000 | T47               | MH05 | n/a | n/a | n/a  | 35.3                | 35.5 | n/a | n/a | n/a  | 38.1        |
| 622764.91           | 4747539.51   | O_1619 | not_avi | n/a | n/a | n/a  | 950.24082                      | 751.46587 | >2000 | >2000 | >2000 | T47               | MH05 | n/a | n/a | n/a  | 37.6                | 31.4 | n/a | n/a | n/a  | 38.4        |
| 622797.92           | 4747175.09   | O_1624 | not_avi | n/a | n/a | n/a  | 1310.2799                      | 415.12    | >2000 | >2000 | >2000 | T47               | MH05 | n/a | n/a | n/a  | 35.6                | 37.3 | n/a | n/a | n/a  | 39.0        |
| 623112.64           | 4747327.61   | O_1710 | not_avi | n/a | n/a | n/a  | 1284.3238                      | 489.03524 | >2000 | >2000 | >2000 | T47               | MH05 | n/a | n/a | n/a  | 36.5                | 35.7 | n/a | n/a | n/a  | 38.8        |
| 624879.11           | 4746506.43   | O_2191 | not_avi | n/a | n/a | n/a  | 1493.5781                      | 1187.959  | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34                  | 26.2 | n/a | n/a | n/a  | 34.7        |
| 624935.11           | 4746735.56   | O_2212 | not_avi | n/a | n/a | n/a  | 1257.9161                      | 1385.949  | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 35.3                | 24.9 | n/a | n/a | n/a  | 35.7        |
| 624970.04           | 4746685.29   | O_2226 | not_avi | n/a | n/a | n/a  | 1301.2733                      | 1375.2635 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 35                  | 24.8 | n/a | n/a | n/a  | 35.4        |
| 624978.66           | 4746621.52   | O_2231 | not_avi | n/a | n/a | n/a  | 1362.9883                      | 1338.5505 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.6                | 25   | n/a | n/a | n/a  | 35.1        |
| 624981.68           | 4746745.08   | O_2234 | not_avi | n/a | n/a | n/a  | 1240.3947                      | 1425.3576 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 35.4                | 24.5 | n/a | n/a | n/a  | 35.7        |
| 624982.63           | 4746537.85   | O_2236 | not_avi | n/a | n/a | n/a  | 1445.2797                      | 1287.9034 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.1                | 25.2 | n/a | n/a | n/a  | 34.6        |
| 624991.37           | 4746660.17   | O_2239 | not_avi | n/a | n/a | n/a  | 1322.9184                      | 1373.7848 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.8                | 24.7 | n/a | n/a | n/a  | 35.2        |
| 624998.61           | 4746642.42   | O_2243 | not_avi | n/a | n/a | n/a  | 1339.5117                      | 1367.3372 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.7                | 24.8 | n/a | n/a | n/a  | 35.1        |
| 625004.79           | 4746493.86   | O_2245 | not_avi | n/a | n/a | n/a  | 1486.1513                      | 1278.8139 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 33.9                | 25.2 | n/a | n/a | n/a  | 34.4        |
| 625010.25           | 4746623.9    | O_2248 | not_avi | n/a | n/a | n/a  | 1356.3889                      | 1363.9669 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.6                | 24.7 | n/a | n/a | n/a  | 35.0        |
| 625012.37           | 4746698.52   | O_2249 | not_avi | n/a | n/a | n/a  | 1282.0938                      | 1415.1795 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 35.1                | 24.5 | n/a | n/a | n/a  | 35.5        |
| 625018.35           | 4746545.79   | O_2251 | not_avi | n/a | n/a | n/a  | 1433.0192                      | 1320.9119 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.2                | 24.9 | n/a | n/a | n/a  | 34.7        |
| 625030.25           | 4746551.74   | O_2256 | not_avi | n/a | n/a | n/a  | 1425.832                       | 1333.966  | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.2                | 24.8 | n/a | n/a | n/a  | 34.7        |
| 625036.71           | 4746664.12   | O_2257 | not_avi | n/a | n/a | n/a  | 1313.394                       | 1410.2851 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.8                | 24.4 | n/a | n/a | n/a  | 35.2        |
| 625041.17           | 4746506.1    | O_2258 | not_avi | n/a | n/a | n/a  | 1470.1881                      | 1315.434  | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 33.9                | 24.9 | n/a | n/a | n/a  | 34.4        |
| 625046.24           | 4746644.01   | O_2260 | not_avi | n/a | n/a | n/a  | 1332.4217                      | 1404.4094 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.7                | 24.4 | n/a | n/a | n/a  | 35.1        |
| 625052.08           | 4746515.69   | O_2261 | not_avi | n/a | n/a | n/a  | 1459.6652                      | 1329.8927 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34                  | 24.8 | n/a | n/a | n/a  | 34.5        |
| 625061.05           | 4746623.37   | O_2263 | not_avi | n/a | n/a | n/a  | 1351.6127                      | 1402.6152 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.6                | 24.4 | n/a | n/a | n/a  | 35.0        |
| 625071.92           | 4746522.96   | O_2267 | not_avi | n/a | n/a | n/a  | 1450.8503                      | 1350.245  | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34                  | 24.6 | n/a | n/a | n/a  | 34.5        |
| 625072.17           | 4746596.92   | O_2268 | not_avi | n/a | n/a | n/a  | 1377.0759                      | 1394.7902 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.4                | 24.4 | n/a | n/a | n/a  | 34.8        |
| 625088.04           | 4746586.33   | O_2270 | not_avi | n/a | n/a | n/a  | 1386.5268                      | 1400.8735 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.4                | 24.3 | n/a | n/a | n/a  | 34.8        |
| 625104.45           | 4746558.82   | O_2274 | not_avi | n/a | n/a | n/a  | 1413.0437                      | 1397.607  | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.2                | 24.2 | n/a | n/a | n/a  | 34.6        |
| 625180.65           | 4746617.55   | O_2282 | not_avi | n/a | n/a | n/a  | 1352.4549                      | 1493.7779 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.5                | 23.5 | n/a | n/a | n/a  | 34.8        |
| 625202.87           | 4746612.79   | O_2283 | not_avi | n/a | n/a | n/a  | 1357.4565                      | 1509.0161 | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.4                | 23.4 | n/a | n/a | n/a  | 34.7        |
| 625154.88           | 4746600.34   | O_3873 | not_avi | n/a | n/a | n/a  | 1369.8386                      | 1462.817  | >2000 | >2000 | >2000 | T61               | MH03 | n/a | n/a | n/a  | 34.4                | 23.7 | n/a | n/a | n/a  | 34.8        |

|           |            |        |         |     |     |     |           |           |       |       |       |     |      |     |     |     |      |      |     |     |     |      |
|-----------|------------|--------|---------|-----|-----|-----|-----------|-----------|-------|-------|-------|-----|------|-----|-----|-----|------|------|-----|-----|-----|------|
| 625125.91 | 4746568.59 | O_3874 | not_avi | n/a | n/a | n/a | 1402.341  | 1420.7176 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 34.2 | 24   | n/a | n/a | n/a | 34.6 |
| 621405.29 | 4747100.96 | P_1255 | not_avi | n/a | n/a | n/a | 693.79611 | 1374.9214 | >2000 | >2000 | >2000 | T05 | MH02 | n/a | n/a | n/a | 37.2 | 24.7 | n/a | n/a | n/a | 37.4 |
| 621399.48 | 4747002.98 | V_1251 | not_avi | n/a | n/a | n/a | 785.00583 | 1338.8852 | >2000 | >2000 | >2000 | T05 | MH02 | n/a | n/a | n/a | 36.3 | 25   | n/a | n/a | n/a | 36.6 |
| 621755.08 | 4747018.86 | V_1308 | not_avi | n/a | n/a | n/a | 938.92506 | 1029.2516 | >2000 | >2000 | >2000 | T05 | MH02 | n/a | n/a | n/a | 35.5 | 28   | n/a | n/a | n/a | 36.2 |
| 621908.2  | 4746515.67 | V_1343 | not_avi | n/a | n/a | n/a | 1441.1541 | 724.6784  | >2000 | >2000 | >2000 | T05 | MH02 | n/a | n/a | n/a | 32.6 | 31.5 | n/a | n/a | n/a | 35.1 |
| 622588    | 4747070    | V_1581 | not_avi | n/a | n/a | n/a | 1380.9376 | 512.06445 | >2000 | >2000 | >2000 | T47 | MH05 | n/a | n/a | n/a | 35   | 36.2 | n/a | n/a | n/a | 38.3 |
| 622822.95 | 4747628.02 | V_1630 | not_avi | n/a | n/a | n/a | 886.71754 | 816.36683 | >2000 | >2000 | >2000 | T47 | MH05 | n/a | n/a | n/a | 38.2 | 30.5 | n/a | n/a | n/a | 38.8 |
| 623377.81 | 4747182.44 | V_1759 | not_avi | n/a | n/a | n/a | 1484.0734 | 473.9776  | >2000 | >2000 | >2000 | T45 | MH05 | n/a | n/a | n/a | 36   | 36.6 | n/a | n/a | n/a | 39.2 |
| 624852.98 | 4746529.58 | V_2182 | not_avi | n/a | n/a | n/a | 1476.4141 | 1183.5493 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 34.1 | 26.3 | n/a | n/a | n/a | 34.8 |
| 624925.08 | 4746685.35 | V_2207 | not_avi | n/a | n/a | n/a | 1309.1178 | 1343.1012 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 35   | 25.1 | n/a | n/a | n/a | 35.4 |
| 624981.3  | 4746600.02 | V_2232 | not_avi | n/a | n/a | n/a | 1383.8872 | 1326.4452 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 34.5 | 25   | n/a | n/a | n/a | 35.0 |
| 624993.21 | 4746580.51 | V_2240 | not_avi | n/a | n/a | n/a | 1401.5924 | 1322.9883 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 34.4 | 25   | n/a | n/a | n/a | 34.9 |
| 625043.81 | 4746580.84 | V_2259 | not_avi | n/a | n/a | n/a | 1395.5304 | 1362.5562 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 34.4 | 24.6 | n/a | n/a | n/a | 34.8 |
| 625057.37 | 4746559.35 | V_2262 | not_avi | n/a | n/a | n/a | 1415.7135 | 1360.1287 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 34.2 | 24.6 | n/a | n/a | n/a | 34.7 |
| 625062.99 | 4746485.26 | V_2264 | not_avi | n/a | n/a | n/a | 1489.1109 | 1321.2843 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 33.8 | 24.8 | n/a | n/a | n/a | 34.3 |
| 625118.89 | 4746521.64 | V_2276 | not_avi | n/a | n/a | n/a | 1449.5253 | 1387.96   | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 34   | 24.2 | n/a | n/a | n/a | 34.4 |
| 625153.28 | 4746546.78 | V_2279 | not_avi | n/a | n/a | n/a | 1423.4177 | 1430.5401 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 34.1 | 23.9 | n/a | n/a | n/a | 34.5 |
| 625202.89 | 4746576.21 | V_2284 | not_avi | n/a | n/a | n/a | 1394.0304 | 1488.1008 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 34.2 | 23.5 | n/a | n/a | n/a | 34.6 |
| 625224.06 | 4746586.13 | V_2287 | not_avi | n/a | n/a | n/a | 1384.6699 | 1511.1822 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 34.3 | 23.3 | n/a | n/a | n/a | 34.6 |
| 624943.74 | 4746584.86 | V_3875 | not_avi | n/a | n/a | n/a | 1404.6434 | 1288.1235 | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 34.4 | 25.4 | n/a | n/a | n/a | 34.9 |
| 624860.8  | 4746737.66 | V_3876 | not_avi | n/a | n/a | n/a | 1272.2595 | 1337.062  | >2000 | >2000 | >2000 | T61 | MH03 | n/a | n/a | n/a | 35.3 | 25.4 | n/a | n/a | n/a | 35.7 |

not\_avi not available  
n/a no common receptors available for these farms  
NRWC Niagara Region Wind Corporation  
MH Mohawk Wind Farm  
WF Wainfleet Wind Energy  
RF Rosa Flora Turbine  
GREP Grand Renewable Energy Project

## 7.0 Conclusions and Closure

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This report has been prepared on behalf of Niagara Region Wind Corporation (NRWC). Stantec Consulting Limited (Stantec) was retained by NRWC to prepare a Noise Assessment Report for their proposed Niagara Region Wind Farm. Stantec's conservative assessment predicted that noise emissions during the Project's predictable worst case operation will meet the MOE criteria at all Points of Reception with the inclusion of noise barriers at both the transformer substations.

The acoustic analysis highlighted in this report is based on information obtained from NRWC. The assessment represents the conditions at the Project at the time of the assessment, and the conclusions are the best judgment of the assessor based on current environmental standards and provided information. Stantec attests that to the best of our knowledge, the information presented in this report is accurate.

Respectfully Submitted,

**STANTEC CONSULTING LTD.**



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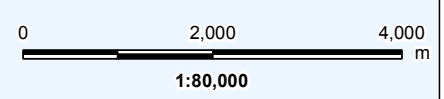
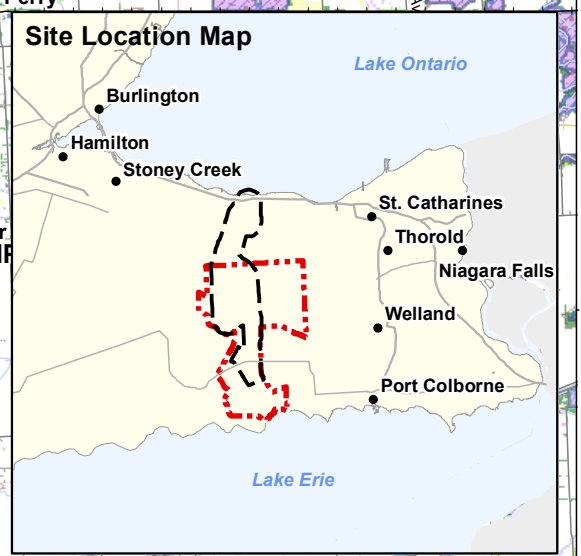
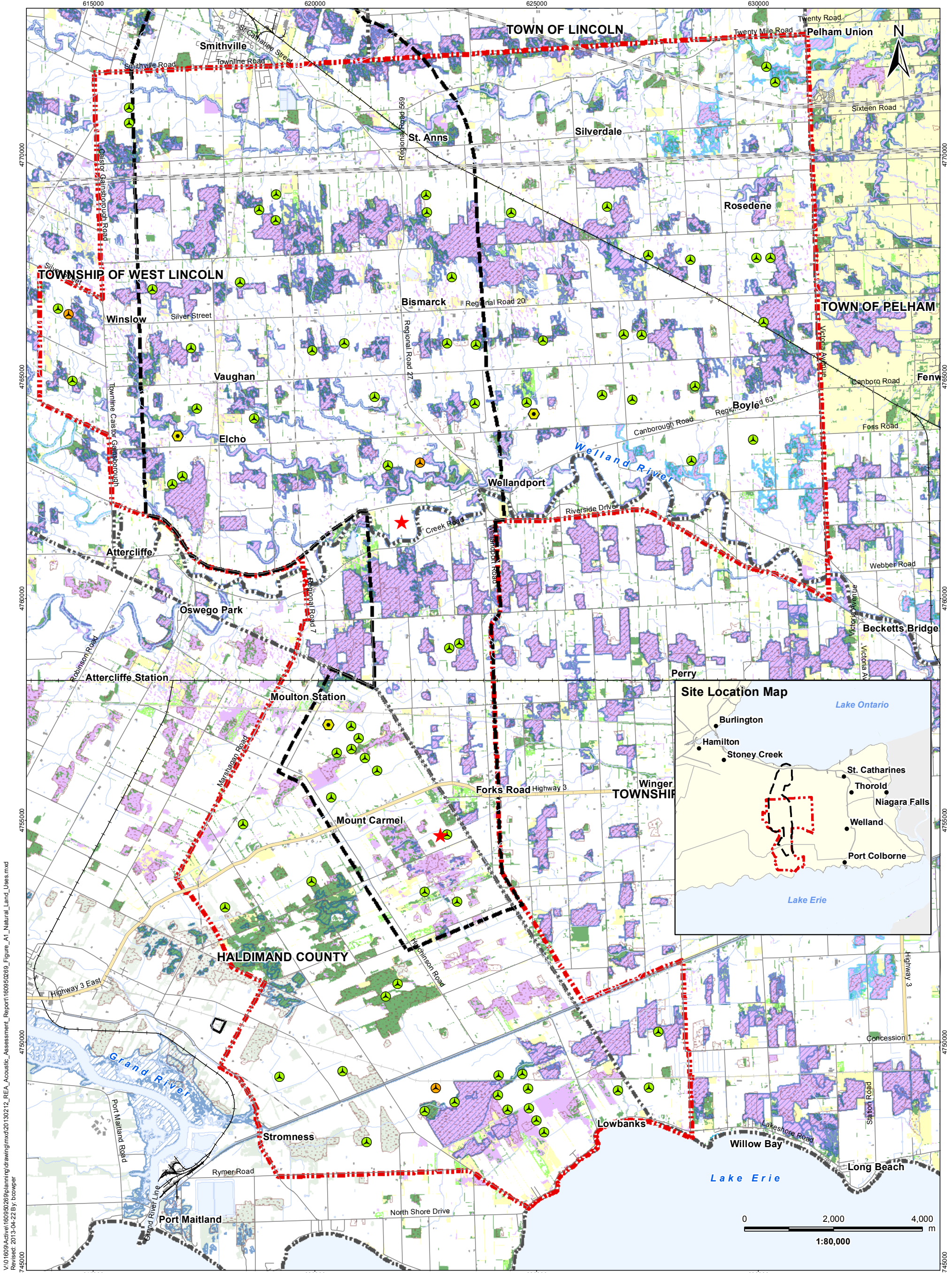
**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix A Zoning Maps  
September 30, 2014

**Appendix A Zoning Maps**

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V:\1609\Active\160950269\planning\drawing\mxd\20130212\_REA\_Acoustic\_Assessment\_Report\160950269\_Figure\_A1\_Natural\_Land\_Uses.mxd  
 Revised: 2013-04-22 By: bczwper



### Legend

- |                    |                           |                                  |                                 |                        |                 |                    |      |                      |                |                   |                     |                            |             |           |             |                         |           |                           |                               |            |                             |           |       |          |          |          |                   |
|--------------------|---------------------------|----------------------------------|---------------------------------|------------------------|-----------------|--------------------|------|----------------------|----------------|-------------------|---------------------|----------------------------|-------------|-----------|-------------|-------------------------|-----------|---------------------------|-------------------------------|------------|-----------------------------|-----------|-------|----------|----------|----------|-------------------|
| Project Study Area | Interconnector Study Area | Proposed Turbine Location (E101) | Proposed Turbine Location (E82) | Transformer Substation | Tap-in Location | Existing Met Tower | Road | Expressway / Highway | Active Railway | Abandoned Railway | Existing Structures | Existing Transmission Line | Watercourse | Waterbody | Wooded Area | Municipality Lower Tier | Greenbelt | Deer Wintering Yard (MNR) | <b>Vegetation Communities</b> | Open Water | Open Rock/Shrub Rock Barren | Shoreline | Bluff | Wetlands | Cultural | Woodland | Treed Agriculture |
|--------------------|---------------------------|----------------------------------|---------------------------------|------------------------|-----------------|--------------------|------|----------------------|----------------|-------------------|---------------------|----------------------------|-------------|-----------|-------------|-------------------------|-----------|---------------------------|-------------------------------|------------|-----------------------------|-----------|-------|----------|----------|----------|-------------------|

### Notes

- Coordinate System: NAD 1983 UTM Zone 17N
- Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.

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 Niagara Region Wind Corporation  
 Niagara Region Wind Farm  
 Acoustic Assessment Report

Figure No.  
**A1**

Title  
**Natural Land Uses**

April 2013  
 160950269



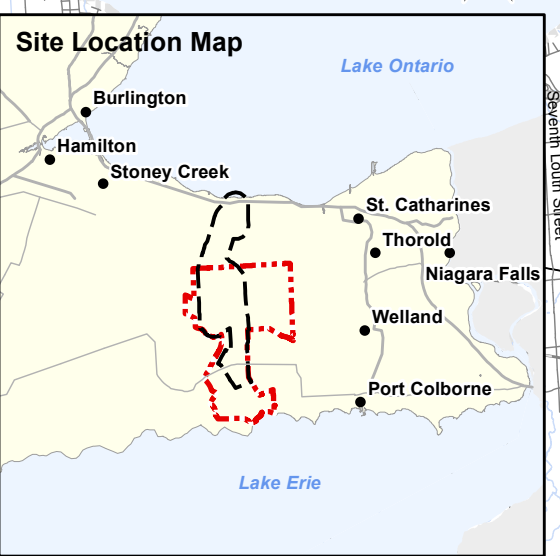
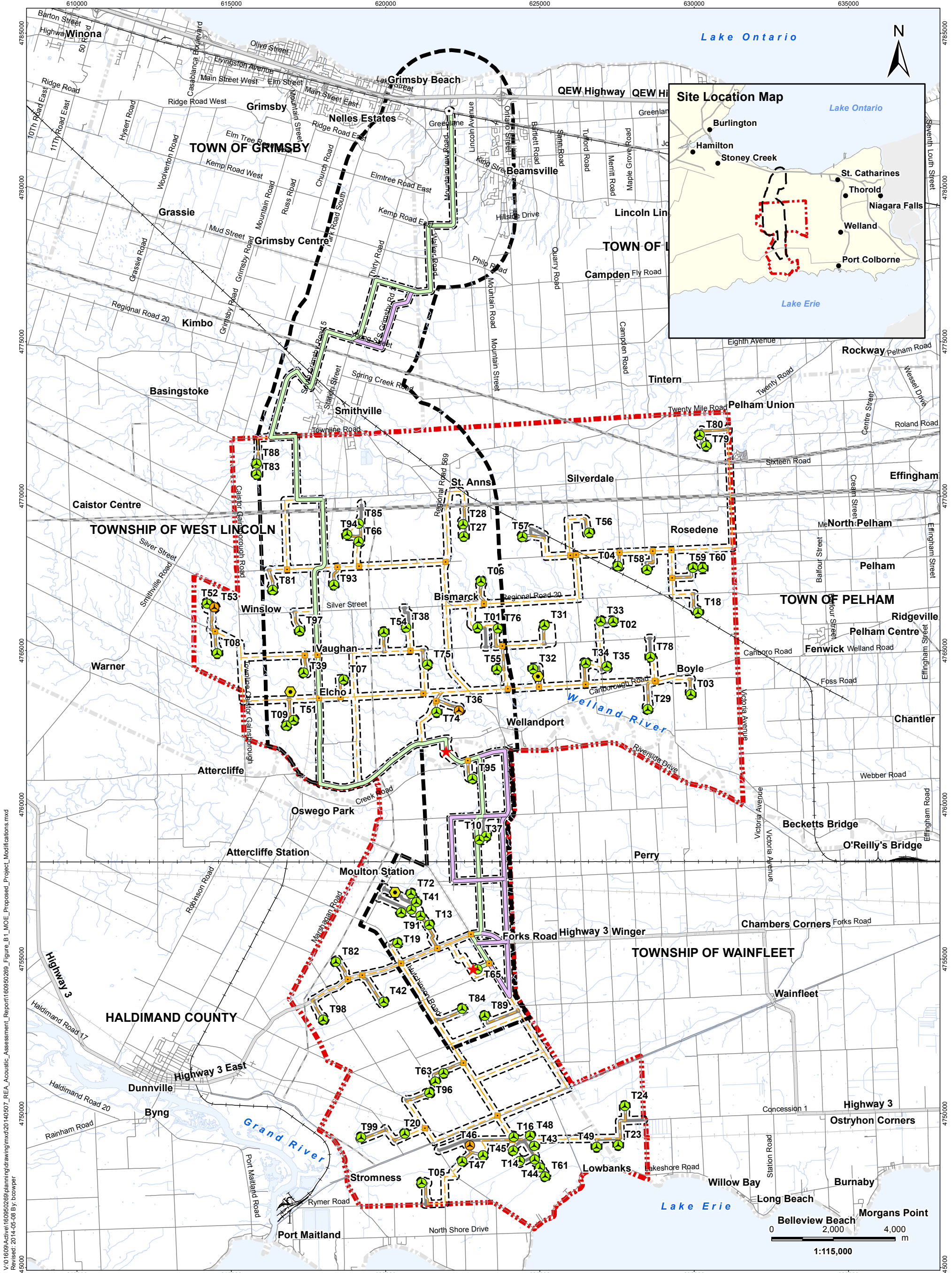
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**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix B Project Layout Plan  
September 30, 2014

**Appendix B Project Layout Plan**

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V:\01609\Active\160950269\planning\drawing\mxd\20140507\_REA\_Acoustic\_Assessment\_Report\160950269\_Figure\_B1\_MOE\_Proposed\_Project\_Modifications.mxd  
 Revised: 2014-05-08 By: bczwiper

**Legend**

- Project Study Area
- Interconnector Study Area
- Zone of Investigation
- Proposed Turbine Location (E101)
- Proposed Turbine Location (E82)
- Transformer Substation
- Tap-in Location
- Existing Met Tower
- Junction Box
- Preferred Transmission Line Route
- Alternate Transmission Route
- Collector Lines - Underground or Overhead
- Potential Access Road
- Road
- Expressway / Highway
- Active Railway
- Abandoned Railway
- Existing Transmission Line
- Watercourse
- Waterbody
- Municipality Lower Tier

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.
3. Scenario 1 - T36, T46, T53 are E82 model at hub height 135 metre; T18, T45, T47, T55, T60 and T74 are E101 model at hub height 135 metre and the rest are E101 model at hub height 124 metre.  
 Scenario 2 - T36, T46, T53 are E82 model at hub height 135 metre; and the rest are E101 model at hub height 135 metre

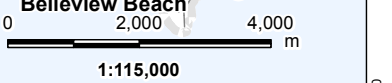


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Figure No.  
**B1**

Title  
**Project Component Layout**

May 2014  
160950269



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**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix C Results for all Points of Reception (PORs)  
September 30, 2014

**Appendix C Results for all Points of Reception (PORs)**

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| Receptor ID | Sound Level/<br>Night<br>dBA | UTM Coordinates (NAD<br>83, Zone 17) |          |          | Distance to the<br>nearest Turbine | Nearest<br>Turbine ID | Receptor ID | Sound Level/<br>Night<br>dBA | UTM Coordinates (NAD<br>83, Zone 17) |          |          | Distance to the<br>nearest Turbine | Nearest<br>Turbine ID | Receptor ID | Sound Level/<br>Night<br>dBA | UTM Coordinates (NAD<br>83, Zone 17) |          |          | Distance to the<br>nearest Turbine | Nearest<br>Turbine ID |
|-------------|------------------------------|--------------------------------------|----------|----------|------------------------------------|-----------------------|-------------|------------------------------|--------------------------------------|----------|----------|------------------------------------|-----------------------|-------------|------------------------------|--------------------------------------|----------|----------|------------------------------------|-----------------------|
|             |                              | X<br>[m]                             | Y<br>[m] | Z<br>[m] |                                    |                       |             |                              | X<br>[m]                             | Y<br>[m] | Z<br>[m] |                                    |                       |             |                              | X<br>[m]                             | Y<br>[m] | Z<br>[m] |                                    |                       |
| O_1002      | 39.7                         | 620717                               | 4766304  | 187      | 555                                | T38                   | O_2697      | 36.6                         | 627788                               | 4748190  | 180      | 822                                | T23                   | O_763       | 36.9                         | 619413                               | 4754483  | 185      | 1002                               | T42                   |
| O_1005      | 36.2                         | 620722                               | 4763669  | 185      | 1080                               | T75                   | O_2698      | 37.2                         | 627798                               | 4748260  | 181      | 759                                | T23                   | O_764       | 37.4                         | 619414                               | 4764906  | 185      | 868                                | T54                   |
| O_101       | 35.0                         | 615006                               | 4771535  | 195      | 939                                | T88                   | O_2699      | 38.5                         | 627802                               | 4764005  | 185      | 797                                | T35                   | O_765       | 36.7                         | 619424                               | 4749986  | 180      | 792                                | T99                   |
| O_1010      | 38.4                         | 620728                               | 4766421  | 188      | 672                                | T38                   | O_270       | 30.9                         | 613114                               | 4764680  | 183      | 1449                               | T08                   | O_767       | 37.6                         | 619429                               | 4764966  | 185      | 812                                | T54                   |
| O_1012      | 35.2                         | 620733                               | 4752218  | 185      | 1460                               | T62                   | O_270       | 36.5                         | 616496                               | 4764832  | 185      | 1017                               | T39                   | O_769       | 34.1                         | 619435                               | 4748125  | 180      | 1122                               | T99                   |
| O_1013      | 35.5                         | 620734                               | 4752084  | 185      | 1368                               | T63                   | O_2700      | 36.5                         | 627802                               | 4748187  | 181      | 830                                | T23                   | O_77        | 39.2                         | 614572                               | 4765536  | 189      | 626                                | T08                   |
| O_1016      | 39.7                         | 620737                               | 4755005  | 183      | 623                                | T19                   | O_2701      | 36.3                         | 627831                               | 4748175  | 181      | 850                                | T23                   | O_770       | 35.3                         | 619436                               | 4750194  | 181      | 997                                | T99                   |
| O_1017      | 33.0                         | 620737                               | 4761846  | 180      | 1477                               | T74                   | O_2702      | 37.0                         | 627839                               | 4748259  | 182      | 776                                | T23                   | O_772       | 36.9                         | 619444                               | 4754555  | 185      | 1049                               | T42                   |
| O_102       | 38.5                         | 615013                               | 4765305  | 187      | 612                                | T08                   | O_2703      | 35.1                         | 627855                               | 4768947  | 190      | 1252                               | T04                   | O_775       | 36.0                         | 619482                               | 4769933  | 189      | 895                                | T85                   |
| O_1029      | 33.1                         | 620762                               | 4761877  | 180      | 1437                               | T74                   | O_2704      | 36.2                         | 627859                               | 4748181  | 182      | 855                                | T23                   | O_778       | 35.2                         | 619538                               | 4770010  | 189      | 988                                | T85                   |
| O_103       | 33.6                         | 615046                               | 4769911  | 200      | 1117                               | T83                   | O_2706      | 36.9                         | 627881                               | 4762747  | 180      | 711                                | T29                   | O_78        | 31.8                         | 614580                               | 4770090  | 200      | 1390                               | T83                   |
| O_1037      | 38.1                         | 620776                               | 4766452  | 188      | 708                                | T38                   | O_2707      | 36.0                         | 627882                               | 4748165  | 183      | 878                                | T23                   | O_780       | 37.0                         | 619552                               | 4754514  | 185      | 965                                | T42                   |
| O_105       | 37.4                         | 615115                               | 4766832  | 190      | 787                                | T53                   | O_2708      | 36.8                         | 627896                               | 4762700  | 180      | 723                                | T29                   | O_783       | 34.8                         | 619603                               | 4763499  | 182      | 1115                               | T07                   |
| O_106       | 33.5                         | 615120                               | 4767711  | 193      | 1432                               | T81                   | O_2709      | 31.5                         | 627898                               | 4761841  | 182      | 1395                               | T29                   | O_784       | 38.0                         | 619606                               | 4756798  | 180      | 940                                | T91                   |
| O_1063      | 38.8                         | 620829                               | 4766361  | 187      | 630                                | T38                   | O_2710      | 40.0                         | 627899                               | 4765540  | 190      | 657                                | T02                   | O_785       | 34.9                         | 619606                               | 4757790  | 183      | 1393                               | T72                   |
| O_1069      | 36.7                         | 620841                               | 4763620  | 185      | 1023                               | T74                   | O_2711      | 36.4                         | 627901                               | 4748225  | 184      | 832                                | T23                   | O_786       | 38.4                         | 619608                               | 4755988  | 180      | 905                                | T19                   |
| O_1074      | 39.9                         | 620855                               | 4755100  | 183      | 632                                | T19                   | O_2712      | 35.9                         | 627904                               | 4748163  | 185      | 890                                | T23                   | O_789       | 36.8                         | 619638                               | 4767714  | 192      | 962                                | T66                   |
| O_1075      | 37.8                         | 620855                               | 4766458  | 188      | 730                                | T38                   | O_2713      | 38.5                         | 627915                               | 4766778  | 190      | 993                                | T02                   | O_79        | 38.5                         | 614630                               | 4767094  | 190      | 700                                | T52                   |
| O_108       | 33.1                         | 615127                               | 4767820  | 193      | 1485                               | T81                   | O_2715      | 35.7                         | 627930                               | 4748148  | 184      | 914                                | T23                   | O_790       | 37.6                         | 619653                               | 4767887  | 193      | 829                                | T66                   |
| O_1082      | 35.9                         | 620868                               | 4752074  | 185      | 1265                               | T62                   | O_2716      | 31.4                         | 627931                               | 4751602  | 180      | 1374                               | T24                   | O_791       | 34.5                         | 619666                               | 4763471  | 182      | 1183                               | T07                   |
| O_1089      | 36.3                         | 620883                               | 4754080  | 185      | 1050                               | T42                   | O_2717      | 31.6                         | 627939                               | 4751567  | 180      | 1341                               | T24                   | O_792       | 37.1                         | 619681                               | 4754666  | 185      | 1069                               | T42                   |
| O_1093      | 36.9                         | 620892                               | 4751828  | 184      | 1071                               | T63                   | O_2718      | 35.6                         | 627945                               | 4748147  | 185      | 921                                | T23                   | O_793       | 36.0                         | 619694                               | 4750115  | 180      | 1016                               | T99                   |
| O_1096      | 39.8                         | 620899                               | 4750271  | 180      | 657                                | T96                   | O_272       | 36.2                         | 616524                               | 4761770  | 179      | 849                                | T09                   | O_795       | 38.9                         | 619701                               | 4756726  | 180      | 828                                | T91                   |
| O_1097      | 40.0                         | 620899                               | 4764949  | 185      | 612                                | T75                   | O_2720      | 36.4                         | 627959                               | 4748275  | 184      | 815                                | T23                   | O_796       | 37.4                         | 619704                               | 4766408  | 189      | 849                                | T54                   |
| O_1098      | 38.9                         | 620900                               | 4754976  | 184      | 750                                | T19                   | O_2721      | 37.3                         | 627967                               | 4762691  | 180      | 671                                | T29                   | O_797       | 38.8                         | 619715                               | 4753107  | 185      | 565                                | T42                   |
| O_1103      | 37.2                         | 620911                               | 4751796  | 184      | 1034                               | T63                   | O_2722      | 35.4                         | 627972                               | 4748139  | 185      | 940                                | T23                   | O_798       | 34.4                         | 619717                               | 4770049  | 187      | 1106                               | T85                   |
| O_1105      | 35.8                         | 620917                               | 4752174  | 185      | 1291                               | T62                   | O_2723      | 38.3                         | 627974                               | 4764010  | 185      | 938                                | T35                   | O_80        | 34.6                         | 614645                               | 4764003  | 185      | 913                                | T08                   |
| O_1107      | 37.6                         | 620926                               | 4751706  | 183      | 959                                | T63                   | O_2724      | 38.0                         | 627976                               | 4763835  | 185      | 902                                | T29                   | O_801       | 39.3                         | 619736                               | 4756077  | 180      | 854                                | T19                   |
| O_111       | 32.8                         | 615148                               | 4763671  | 185      | 1379                               | T08                   | O_2726      | 35.2                         | 627990                               | 4748126  | 184      | 960                                | T23                   | O_802       | 34.8                         | 619741                               | 4769967  | 187      | 1051                               | T85                   |
| O_1112      | 39.9                         | 620954                               | 4755166  | 183      | 673                                | T19                   | O_2728      | 35.7                         | 627995                               | 4748199  | 185      | 899                                | T23                   | O_803       | 39.1                         | 619748                               | 4756818  | 180      | 812                                | T91                   |
| O_1116      | 37.2                         | 620961                               | 4763553  | 185      | 887                                | T74                   | O_273       | 39.0                         | 616527                               | 4763296  | 185      | 735                                | T51                   | O_805       | 35.8                         | 619757                               | 4748395  | 181      | 994                                | T99                   |
| O_1127      | 34.4                         | 620981                               | 4762035  | 180      | 1179                               | T74                   | O_2730      | 35.1                         | 628003                               | 4748120  | 184      | 972                                | T23                   | O_806       | 37.2                         | 619771                               | 4749883  | 180      | 867                                | T99                   |
| O_113       | 34.8                         | 615154                               | 4767422  | 192      | 1236                               | T53                   | O_2731      | 35.1                         | 628016                               | 4748118  | 184      | 980                                | T23                   | O_807       | 36.0                         | 619785                               | 4757734  | 183      | 1210                               | T72                   |
| O_114       | 38.9                         | 615165                               | 4771059  | 195      | 651                                | T88                   | O_2733      | 37.4                         | 628021                               | 4762645  | 180      | 659                                | T29                   | O_808       | 37.7                         | 619786                               | 4766379  | 189      | 801                                | T54                   |
| O_1142      | 37.4                         | 621005                               | 4763632  | 185      | 905                                | T74                   | O_2734      | 34.9                         | 628031                               | 4748109  | 182      | 995                                | T23                   | O_81        | 32.2                         | 614678                               | 4770050  | 200      | 1322                               | T83                   |
| O_1148      | 35.9                         | 621035                               | 4753811  | 185      | 1115                               | T42                   | O_2735      | 35.4                         | 628043                               | 4748196  | 185      | 927                                | T23                   | O_811       | 36.5                         | 619803                               | 4767795  | 193      | 998                                | T66                   |
| O_115       | 36.0                         | 615176                               | 4767123  | 190      | 1019                               | T53                   | O_2737      | 34.8                         | 628057                               | 4748105  | 183      | 1011                               | T23                   | O_812       | 37.3                         | 619811                               | 4754551  | 185      | 931                                | T42                   |
| O_1153      | 40.0                         | 621067                               | 4749725  | 181      | 584                                | T20                   | O_2740      | 34.6                         | 628077                               | 4748089  | 184      | 1035                               | T23                   | O_813       | 39.6                         | 619825                               | 4756909  | 180      | 782                                | T91                   |
| O_1154      | 38.0                         | 621068                               | 4751784  | 183      | 926                                | T63                   | O_2741      | 34.9                         | 628087                               | 4748145  | 185      | 994                                | T23                   | O_817       | 37.4                         | 619862                               | 4754569  | 185      | 944                                | T42                   |
| O_1155      | 37.8                         | 621069                               | 4763704  | 185      | 887                                | T75                   | O_2742      | 33.6                         | 628095                               | 4762136  | 180      | 1046                               | T29                   | O_818       | 39.3                         | 619866                               | 4764992  | 188      | 607                                | T54                   |
| O_1157      | 37.7                         | 621072                               | 4763637  | 185      | 863                                | T74                   | O_2743      | 31.1                         | 628110                               | 4761706  | 185      | 1447                               | T29                   | O_819       | 37.8                         | 619877                               | 4766395  | 189      | 804                                | T54                   |
| O_116       | 36.0                         | 615177                               | 4767127  | 190      | 1022                               | T53                   | O_2745      | 34.2                         | 628148                               | 4748066  | 183      | 1093                               | T23                   | O_82        | 39.4                         | 614687                               | 4766978  | 190      | 620                                | T53                   |
| O_1166      | 33.9                         | 621121                               | 4761603  | 176      | 1498                               | T74                   | O_2748      | 34.0                         | 628171                               | 4748057  | 181      | 1114                               | T23                   | O_820       | 38.5                         | 619878                               | 4749607  | 180      | 772                                | T99                   |
| O_1167      | 39.5                         | 621121                               | 4755212  | 183      | 801                                | T19                   | O_275       | 34.0                         | 616533                               | 4769817  | 199      | 1146                               | T83                   | O_822       | 34.2                         | 619905                               | 4769965  | 186      | 1152                               | T85                   |
| O_1169      | 35.8                         | 621128                               | 4753671  | 185      | 1194                               | T42                   | O_2751      | 33.8                         | 628196                               | 4748045  | 181      | 1138                               | T23                   | O_824       | 37.5                         | 619930                               | 4754661  | 184      | 966                                | T19                   |
| O_117       | 36.5                         | 615182                               | 4766985  | 190      | 931                                | T53                   | O_2752      | 34.2                         | 628200                               | 4748127  | 184      | 1074                               | T23                   | O_828       | 37.1                         | 619952                               | 4757684  | 183      | 1040                               | T72                   |
| O_1172      | 34.0                         | 621136                               | 4761601  | 176      | 1495                               | T74                   | O_2753      | 39.8                         | 628208                               | 4768177  | 190      | 609                                | T58                   | O_829       | 38.5                         | 619969                               | 4766331  | 188      | 738                                | T54                   |
| O_1173      | 35.8                         | 621141                               | 4753705  | 185      | 1208                               | T42                   | O_2755      | 33.7                         | 628217                               | 4748032  | 180      | 1160                               | T23                   | O_83        | 33.0                         | 614709                               | 4770220  | 200      | 1218                               | T83                   |
| O_1174      | 38.7                         | 621143                               | 4755072  | 185      | 883                                | T19                   | O_2757      | 39.1                         | 628232                               | 4765412  | 190      | 720                                | T78                   | O_831       | 33.5                         | 619978                               | 4770050  | 185      | 1264                               | T85                   |
| O_1176      | 38.0                         | 621145                               | 4763647  | 185      | 823                                | T74                   | O_2758      | 37.1                         | 628232                               | 4750703  | 180      | 667                                | T24                   | O_832       | 34.3                         | 619989                               | 4763509  | 183      | 1458                               | T07                   |
| O_1177      | 35.0                         | 621149                               | 4762004  | 183      | 1120                               | T74                   | O_2761      | 33.5                         | 628244                               | 4748025  | 180      | 1182                               | T23                   | O_834       | 35.8                         | 620000                               | 4748356  | 181      | 1168                               | T20                   |
| O_1178      | 35.8                         | 621154                               | 4753609  | 185      | 1220                               | T42                   | O_2764      | 33.4                         | 628255                               | 4751154  | 180      | 1044                               | T24                   | O_840       | 35.8                         | 620025                               | 4767858  | 193      | 1121                               | T66                   |
| O_1179      | 35.8                         | 621156                               | 4753679  | 185      | 1222                               | T42                   | O_2765      | 33.4                         | 628260                               | 4748018  | 180      | 1198                               | T23                   | O_842       | 34.4                         | 620035                               | 4763579  | 183      | 1478                               | T07                   |
| O_118       | 39.5                         | 615189                               | 4770950  | 195      | 636                                | T88                   | O_2769      | 38.3                         | 628271                               | 4763928  | 185      | 858                                | T29                   | O_843       | 32.4                         | 620036                               | 4770250  | 185      | 1455                               | T85                   |
| O_1180      | 34.0                         | 621156                               | 4761598  | 176      | 1490                               | T74                   | O_2772      | 33.3                         | 628278                               | 4748019  | 180      | 1208                               | T23                   | O_844       | 34.0                         | 620038                               | 4752219  | 185      | 1413                               | T42                   |
| O_1181      | 39.2                         | 621156                               | 4755176  | 184      | 848                                | T19                   | O_2776      | 33.2                         | 628289                               | 4748004  | 180      | 1226                               | T23                   | O_85        | 39.5                         | 614752                               | 4765425  | 189      | 554                                | T08                   |
| O_1184      | 39.9                         | 621175                               | 4751605  | 183      | 718                                | T63                   | O_278       | 38.2                         | 616539                               | 4763431  | 185      | 833                                | T51                   | O_850       | 37.6                         | 620054                               | 4754545  | 185      | 925                                | T42                   |
| O_1186      | 34.1                         | 621177                               | 4761593  | 176      | 1488                               | T74                   | O_2781      | 33.1                         | 628302                               | 4747997  | 180      | 1240                               | T23                   | O_851       | 34.1                         | 620054                               | 4752228  | 185      | 1405                               | T42                   |
| O_1192      | 34.2                         | 621196                               | 4761577  | 176      | 1497                               | T74                   | O_2784      | 38.4                         | 628309                               | 4750020  | 180      | 599                                | T24                   | O_853       | 37.8                         | 620056                               | 4754721  | 184      | 858                                | T19                   |
| O_120       | 37.1                         | 615227                               | 4766162  | 190      | 808                                | T53                   | O_2785      | 33.0                         | 628319                               | 4747991  | 180      | 1255                               | T23                   | O_854       | 34.1                         | 620065                               | 4752227  |          |                                    |                       |



|        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |  |       |      |        |         |     |      |     |
|--------|------|--------|---------|-----|------|-----|--|--------|------|--------|---------|-----|------|-----|--|-------|------|--------|---------|-----|------|-----|
| O_1228 | 35.7 | 621308 | 4758305 | 185 | 1276 | T72 |  | O_2829 | 32.3 | 628440 | 4747943 | 180 | 1369 | T23 |  | O_87  | 33.7 | 614772 | 4770315 | 200 | 1123 | T83 |
| O_123  | 36.4 | 615239 | 4765575 | 188 | 961  | T08 |  | O_2832 | 36.0 | 628445 | 4749553 | 180 | 975  | T24 |  | O_870 | 34.2 | 620120 | 4752244 | 185 | 1397 | T42 |
| O_124  | 36.4 | 615241 | 4765572 | 188 | 959  | T08 |  | O_2834 | 32.6 | 628455 | 4748023 | 184 | 1320 | T23 |  | O_872 | 32.7 | 620132 | 4770116 | 185 | 1417 | T85 |
| O_1247 | 35.9 | 621379 | 4753207 | 185 | 1124 | T84 |  | O_2835 | 32.2 | 628455 | 4747937 | 180 | 1384 | T23 |  | O_873 | 36.3 | 620136 | 4768350 | 195 | 1024 | T66 |
| O_125  | 34.2 | 615261 | 4771884 | 195 | 994  | T88 |  | O_2837 | 32.2 | 628473 | 4747938 | 181 | 1394 | T23 |  | O_874 | 36.0 | 620137 | 4768205 | 195 | 1060 | T66 |
| O_1250 | 34.6 | 621396 | 4761324 | 180 | 1498 | T95 |  | O_2838 | 32.8 | 628501 | 4748126 | 185 | 1282 | T23 |  | O_876 | 35.2 | 620153 | 4767816 | 193 | 1249 | T66 |
| O_1254 | 34.8 | 621405 | 4761352 | 180 | 1498 | T95 |  | O_284  | 31.2 | 616648 | 4753130 | 180 | 1337 | T98 |  | O_877 | 34.3 | 620169 | 4752284 | 185 | 1364 | T42 |
| O_1258 | 34.7 | 621410 | 4761334 | 180 | 1488 | T95 |  | O_2840 | 32.7 | 628502 | 4748109 | 185 | 1294 | T23 |  | O_878 | 34.3 | 620173 | 4752261 | 185 | 1387 | T42 |
| O_1259 | 36.3 | 621411 | 4761957 | 185 | 1074 | T74 |  | O_2841 | 32.6 | 628502 | 4748077 | 185 | 1316 | T23 |  | O_879 | 37.1 | 620181 | 4748575 | 182 | 887  | T20 |
| O_126  | 36.9 | 615264 | 4766146 | 190 | 848  | T53 |  | O_2842 | 32.8 | 628504 | 4748144 | 185 | 1273 | T23 |  | O_88  | 33.4 | 614790 | 4770195 | 200 | 1155 | T83 |
| O_1260 | 38.6 | 621418 | 4755178 | 183 | 944  | T13 |  | O_2843 | 32.6 | 628504 | 4748091 | 185 | 1308 | T23 |  | O_880 | 34.4 | 620181 | 4752372 | 185 | 1280 | T42 |
| O_1262 | 36.4 | 621440 | 4766383 | 188 | 996  | T38 |  | O_2844 | 32.5 | 628510 | 4748056 | 185 | 1336 | T23 |  | O_881 | 34.4 | 620184 | 4752360 | 185 | 1292 | T42 |
| O_1263 | 36.2 | 621441 | 4753401 | 185 | 1046 | T84 |  | O_2845 | 31.9 | 628513 | 4747894 | 181 | 1454 | T23 |  | O_882 | 34.4 | 620189 | 4752345 | 185 | 1308 | T42 |
| O_1265 | 32.6 | 621491 | 4770071 | 190 | 1416 | T28 |  | O_2846 | 32.8 | 628514 | 4748154 | 185 | 1273 | T23 |  | O_883 | 34.3 | 620189 | 4752292 | 185 | 1360 | T42 |
| O_127  | 36.7 | 615272 | 4766848 | 190 | 930  | T53 |  | O_2847 | 32.4 | 628516 | 4748041 | 185 | 1351 | T23 |  | O_884 | 38.7 | 620189 | 4757633 | 183 | 818  | T72 |
| O_1271 | 37.2 | 621537 | 4747106 | 188 | 744  | T05 |  | O_2849 | 38.7 | 628519 | 4764037 | 185 | 748  | T78 |  | O_885 | 37.8 | 620191 | 4754654 | 185 | 883  | T19 |
| O_1273 | 35.2 | 621549 | 4768001 | 193 | 1213 | T27 |  | O_285  | 32.9 | 616650 | 4771887 | 194 | 1175 | T88 |  | O_886 | 34.4 | 620195 | 4752330 | 185 | 1324 | T42 |
| O_1277 | 37.4 | 621572 | 4762081 | 184 | 925  | T74 |  | O_2851 | 32.5 | 628522 | 4748090 | 185 | 1322 | T23 |  | O_887 | 34.3 | 620200 | 4752270 | 185 | 1384 | T42 |
| O_1278 | 37.4 | 621573 | 4762080 | 184 | 926  | T74 |  | O_2852 | 32.6 | 628523 | 4748104 | 185 | 1313 | T23 |  | O_89  | 34.0 | 614826 | 4771447 | 196 | 1063 | T88 |
| O_1279 | 32.8 | 621591 | 4770085 | 190 | 1355 | T28 |  | O_2853 | 32.6 | 628526 | 4748119 | 185 | 1306 | T23 |  | O_891 | 34.4 | 620216 | 4752341 | 185 | 1318 | T42 |
| O_128  | 34.6 | 615275 | 4764196 | 185 | 1022 | T08 |  | O_2854 | 32.5 | 628526 | 4748075 | 185 | 1335 | T23 |  | O_893 | 34.4 | 620223 | 4752324 | 185 | 1335 | T42 |
| O_1282 | 38.3 | 621608 | 4749173 | 182 | 995  | T20 |  | O_2856 | 32.8 | 628527 | 4748161 | 185 | 1280 | T23 |  | O_894 | 34.4 | 620230 | 4752307 | 185 | 1353 | T42 |
| O_1284 | 36.9 | 621626 | 4753241 | 185 | 875  | T84 |  | O_2857 | 32.3 | 628529 | 4748037 | 185 | 1363 | T23 |  | O_895 | 34.5 | 620239 | 4752402 | 185 | 1263 | T42 |
| O_1286 | 32.8 | 621629 | 4770089 | 190 | 1332 | T28 |  | O_2858 | 32.7 | 628531 | 4748138 | 185 | 1296 | T23 |  | O_896 | 34.5 | 620242 | 4752387 | 185 | 1279 | T42 |
| O_1287 | 33.0 | 621630 | 4770057 | 190 | 1308 | T28 |  | O_2859 | 32.4 | 628532 | 4748064 | 185 | 1346 | T23 |  | O_897 | 34.5 | 620244 | 4752368 | 185 | 1297 | T42 |
| O_1288 | 39.4 | 621630 | 4755368 | 181 | 786  | T13 |  | O_2860 | 35.1 | 628545 | 4749267 | 181 | 1047 | T23 |  | O_899 | 34.3 | 620249 | 4752249 | 185 | 1415 | T42 |
| O_129  | 36.7 | 615276 | 4766848 | 190 | 933  | T53 |  | O_2861 | 32.7 | 628545 | 4748162 | 185 | 1293 | T23 |  | O_90  | 34.5 | 614834 | 4770398 | 199 | 1037 | T83 |
| O_1290 | 39.2 | 621653 | 4757500 | 182 | 908  | T72 |  | O_2862 | 38.0 | 628548 | 4766811 | 186 | 821  | T58 |  | O_900 | 34.4 | 620250 | 4752337 | 185 | 1329 | T42 |
| O_1291 | 36.5 | 621659 | 4752845 | 185 | 993  | T84 |  | O_2863 | 32.6 | 628549 | 4748136 | 185 | 1312 | T23 |  | O_902 | 34.4 | 620255 | 4752321 | 185 | 1346 | T42 |
| O_1292 | 35.4 | 621671 | 4761158 | 180 | 1186 | T95 |  | O_2864 | 32.3 | 628552 | 4748053 | 185 | 1369 | T23 |  | O_903 | 34.6 | 620259 | 4752407 | 185 | 1263 | T42 |
| O_1294 | 39.3 | 621675 | 4763698 | 185 | 695  | T74 |  | O_2865 | 32.2 | 628552 | 4748030 | 185 | 1384 | T23 |  | O_904 | 34.4 | 620270 | 4752252 | 185 | 1416 | T42 |
| O_1296 | 38.7 | 621710 | 4757536 | 182 | 975  | T72 |  | O_2866 | 32.6 | 628557 | 4748163 | 185 | 1301 | T23 |  | O_906 | 37.8 | 620278 | 4757830 | 184 | 897  | T72 |
| O_1297 | 39.8 | 621713 | 4763617 | 185 | 617  | T74 |  | O_2867 | 32.5 | 628561 | 4748131 | 185 | 1325 | T23 |  | O_907 | 38.2 | 620279 | 4754728 | 184 | 795  | T19 |
| O_1298 | 35.6 | 621721 | 4767883 | 193 | 1158 | T27 |  | O_2869 | 32.2 | 628567 | 4748056 | 185 | 1378 | T23 |  | O_908 | 34.9 | 620283 | 4763681 | 185 | 1377 | T75 |
| O_130  | 36.4 | 615286 | 4765925 | 189 | 958  | T53 |  | O_2870 | 32.4 | 628572 | 4748123 | 185 | 1338 | T23 |  | O_909 | 34.5 | 620286 | 4752338 | 185 | 1337 | T42 |
| O_1302 | 33.8 | 621737 | 4759553 | 183 | 1465 | T37 |  | O_2871 | 32.5 | 628576 | 4748152 | 185 | 1323 | T23 |  | O_91  | 38.7 | 614837 | 4765471 | 189 | 632  | T08 |
| O_1305 | 37.3 | 621749 | 4753817 | 183 | 851  | T84 |  | O_2872 | 32.1 | 628578 | 4748034 | 185 | 1401 | T23 |  | O_910 | 34.6 | 620288 | 4752415 | 185 | 1263 | T42 |
| O_1306 | 36.7 | 621752 | 4752614 | 185 | 1071 | T84 |  | O_2873 | 31.6 | 628579 | 4761757 | 185 | 1346 | T29 |  | O_911 | 34.4 | 620291 | 4752258 | 185 | 1416 | T42 |
| O_1307 | 38.9 | 621752 | 4755337 | 181 | 857  | T13 |  | O_2874 | 32.2 | 628580 | 4748056 | 185 | 1388 | T23 |  | O_912 | 34.5 | 620292 | 4752320 | 185 | 1355 | T42 |
| O_131  | 33.8 | 615289 | 4769760 | 200 | 1093 | T83 |  | O_2875 | 32.4 | 628581 | 4748116 | 185 | 1350 | T23 |  | O_914 | 34.7 | 620302 | 4752472 | 185 | 1213 | T42 |
| O_1310 | 38.7 | 621760 | 4757476 | 181 | 985  | T41 |  | O_2876 | 38.5 | 628586 | 4763901 | 185 | 806  | T29 |  | O_916 | 34.6 | 620312 | 4752422 | 185 | 1263 | T42 |
| O_1312 | 34.2 | 621768 | 4769921 | 186 | 1114 | T28 |  | O_2877 | 32.4 | 628587 | 4748140 | 185 | 1339 | T23 |  | O_917 | 34.5 | 620316 | 4752330 | 185 | 1352 | T42 |
| O_1313 | 37.4 | 621783 | 4752973 | 185 | 820  | T84 |  | O_2878 | 32.5 | 628589 | 4748165 | 185 | 1325 | T23 |  | O_918 | 34.5 | 620316 | 4752349 | 185 | 1334 | T42 |
| O_1314 | 39.5 | 621783 | 4748649 | 183 | 728  | T47 |  | O_2879 | 32.1 | 628591 | 4748060 | 185 | 1393 | T23 |  | O_919 | 34.5 | 620321 | 4752281 | 185 | 1401 | T42 |
| O_1315 | 35.3 | 621786 | 4766948 | 190 | 1342 | T06 |  | O_288  | 30.8 | 616680 | 4752540 | 180 | 1396 | T98 |  | O_92  | 31.5 | 614845 | 4771984 | 195 | 1340 | T88 |
| O_1316 | 39.3 | 621795 | 4755456 | 180 | 769  | T13 |  | O_2881 | 32.0 | 628592 | 4748035 | 185 | 1411 | T23 |  | O_920 | 34.7 | 620322 | 4752446 | 185 | 1244 | T42 |
| O_1317 | 37.9 | 621796 | 4752162 | 184 | 855  | T62 |  | O_2882 | 32.3 | 628596 | 4748104 | 185 | 1369 | T23 |  | O_921 | 34.7 | 620323 | 4752482 | 185 | 1210 | T42 |
| O_1319 | 37.2 | 621813 | 4752867 | 185 | 854  | T84 |  | O_2883 | 31.8 | 628601 | 4747963 | 184 | 1466 | T23 |  | O_922 | 34.7 | 620324 | 4763531 | 183 | 1433 | T74 |
| O_1320 | 38.4 | 621815 | 4752085 | 184 | 776  | T62 |  | O_2884 | 32.4 | 628603 | 4748165 | 185 | 1336 | T23 |  | O_923 | 38.4 | 620325 | 4766419 | 188 | 750  | T38 |
| O_1321 | 36.4 | 621815 | 4761193 | 180 | 1058 | T95 |  | O_2885 | 38.5 | 628603 | 4768282 | 190 | 666  | T58 |  | O_924 | 32.7 | 620336 | 4769979 | 186 | 1483 | T85 |
| O_1323 | 39.7 | 621824 | 4763625 | 184 | 645  | T74 |  | O_2886 | 32.3 | 628604 | 4748129 | 185 | 1359 | T23 |  | O_925 | 36.5 | 620336 | 4758057 | 184 | 1056 | T72 |
| O_1325 | 35.9 | 621827 | 4761087 | 185 | 1018 | T95 |  | O_2887 | 37.4 | 628604 | 4766679 | 185 | 958  | T58 |  | O_926 | 34.7 | 620337 | 4752435 | 185 | 1259 | T42 |
| O_1326 | 37.2 | 621834 | 4768241 | 195 | 842  | T27 |  | O_2888 | 32.1 | 628606 | 4748066 | 185 | 1400 | T23 |  | O_927 | 38.9 | 620344 | 4754837 | 183 | 680  | T19 |
| O_1327 | 35.9 | 621838 | 4767825 | 193 | 1125 | T27 |  | O_2889 | 36.9 | 628607 | 4762414 | 180 | 695  | T29 |  | O_929 | 34.7 | 620351 | 4752483 | 185 | 1218 | T42 |
| O_1328 | 33.4 | 621838 | 4770101 | 188 | 1213 | T28 |  | O_289  | 31.4 | 616683 | 4753201 | 180 | 1308 | T98 |  | O_930 | 34.5 | 620352 | 4767672 | 192 | 1495 | T66 |
| O_1329 | 38.9 | 621839 | 4764984 | 185 | 653  | T75 |  | O_2890 | 31.4 | 628609 | 4761726 | 185 | 1378 | T29 |  | O_931 | 34.7 | 620358 | 4752433 | 185 | 1268 | T42 |
| O_1330 | 36.0 | 621845 | 4766462 | 189 | 1347 | T01 |  | O_2891 | 32.2 | 628612 | 4748097 | 185 | 1386 | T23 |  | O_932 | 34.5 | 620361 | 4752290 | 185 | 1404 | T42 |
| O_1332 | 37.7 | 621854 | 4753879 | 183 | 798  | T84 |  | O_2892 | 32.0 | 628612 | 4748042 | 185 | 1421 | T23 |  | O_937 | 39.8 | 620385 | 4754933 | 182 | 583  | T19 |
| O_1334 | 35.5 | 621869 | 4767380 | 190 | 1234 | T06 |  | O_2894 | 32.1 | 628617 | 4748071 | 185 | 1406 | T23 |  | O_94  | 32.6 | 614868 | 4769874 | 200 | 1271 | T83 |
| O_1335 | 36.5 | 62187  |         |     |      |     |  |        |      |        |         |     |      |     |  |       |      |        |         |     |      |     |

|        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |
|--------|------|--------|---------|-----|------|-----|--|--------|------|--------|---------|-----|------|-----|--|--------|------|--------|---------|-----|------|-----|
| O_1357 | 36.1 | 621939 | 4766462 | 190 | 1269 | T01 |  | O_2919 | 31.6 | 628695 | 4748041 | 185 | 1485 | T23 |  | O_971  | 34.8 | 620551 | 4747071 | 185 | 922  | T05 |
| O_1359 | 39.2 | 621941 | 4755540 | 180 | 787  | T13 |  | O_292  | 33.0 | 616690 | 4769607 | 199 | 1408 | T83 |  | O_973  | 34.8 | 620562 | 4752314 | 185 | 1456 | T42 |
| O_136  | 36.9 | 615320 | 4766686 | 190 | 910  | T53 |  | O_2920 | 31.7 | 628696 | 4748062 | 185 | 1473 | T23 |  | O_975  | 35.0 | 620571 | 4752590 | 185 | 1217 | T42 |
| O_1360 | 35.8 | 621954 | 4746822 | 189 | 1217 | T05 |  | O_2921 | 31.8 | 628698 | 4748101 | 185 | 1450 | T23 |  | O_98   | 36.6 | 614983 | 4770652 | 195 | 840  | T83 |
| O_1362 | 35.6 | 621958 | 4746643 | 189 | 1361 | T05 |  | O_2922 | 39.4 | 628703 | 4765352 | 185 | 582  | T78 |  | O_980  | 39.3 | 620617 | 4748743 | 182 | 599  | T20 |
| O_1363 | 36.3 | 621960 | 4747048 | 189 | 1059 | T05 |  | O_2923 | 38.5 | 628700 | 4763994 | 185 | 797  | T78 |  | O_981  | 35.6 | 620635 | 4751902 | 185 | 1306 | T63 |
| O_1365 | 35.5 | 621967 | 4746565 | 189 | 1430 | T05 |  | O_2925 | 30.9 | 628709 | 4761647 | 184 | 1468 | T29 |  | O_983  | 38.4 | 620638 | 4766431 | 188 | 680  | T38 |
| O_1366 | 37.7 | 621970 | 4752213 | 184 | 907  | T62 |  | O_2926 | 31.7 | 628713 | 4748074 | 185 | 1479 | T23 |  | O_984  | 35.7 | 620640 | 4763545 | 185 | 1151 | T74 |
| O_1367 | 36.2 | 621974 | 4766478 | 190 | 1249 | T01 |  | O_2927 | 31.9 | 628714 | 4748143 | 185 | 1439 | T23 |  | O_986  | 39.8 | 620647 | 4766310 | 187 | 559  | T38 |
| O_1368 | 36.9 | 621976 | 4747236 | 187 | 957  | T05 |  | O_2928 | 31.8 | 628716 | 4748110 | 185 | 1460 | T23 |  | O_989  | 35.0 | 620682 | 4746999 | 185 | 899  | T05 |
| O_137  | 33.2 | 615321 | 4763757 | 185 | 1391 | T08 |  | O_2929 | 31.6 | 628716 | 4748046 | 185 | 1498 | T23 |  | O_99   | 36.6 | 614996 | 4771180 | 195 | 829  | T88 |
| O_1370 | 39.7 | 621984 | 4756847 | 180 | 924  | T13 |  | O_2930 | 32.0 | 628720 | 4748184 | 185 | 1421 | T23 |  | O_994  | 35.2 | 620698 | 4752728 | 185 | 1180 | T42 |
| O_1372 | 38.6 | 621986 | 4755401 | 180 | 923  | T13 |  | O_2931 | 31.7 | 628724 | 4748091 | 185 | 1478 | T23 |  | P_1004 | 39.7 | 620721 | 4765017 | 185 | 737  | T38 |
| O_1373 | 37.2 | 621986 | 4761210 | 180 | 905  | T95 |  | O_2932 | 31.7 | 628730 | 4748114 | 185 | 1468 | T23 |  | P_1039 | 39.1 | 620777 | 4750321 | 180 | 733  | T96 |
| O_1376 | 36.3 | 621995 | 4766401 | 189 | 1188 | T01 |  | O_2935 | 31.6 | 628742 | 4748102 | 185 | 1485 | T23 |  | P_1191 | 40.6 | 621195 | 4765046 | 185 | 529  | T75 |
| O_1377 | 38.4 | 621998 | 4752905 | 185 | 691  | T84 |  | O_2937 | 31.9 | 628749 | 4748208 | 185 | 1431 | T23 |  | P_1235 | 41.3 | 621355 | 4764993 | 185 | 451  | T75 |
| O_1378 | 36.7 | 622001 | 4767904 | 194 | 965  | T27 |  | O_2938 | 31.7 | 628751 | 4748130 | 185 | 1476 | T23 |  | P_1255 | 37.5 | 621405 | 4747101 | 188 | 694  | T05 |
| O_1379 | 37.4 | 622002 | 4752621 | 184 | 911  | T84 |  | O_2940 | 38.0 | 628752 | 4766880 | 189 | 800  | T58 |  | P_1275 | 39.2 | 621564 | 4763692 | 185 | 695  | T74 |
| O_138  | 36.9 | 615322 | 4766688 | 190 | 912  | T53 |  | O_2949 | 38.3 | 628811 | 4763979 | 185 | 836  | T78 |  | P_1283 | 36.7 | 621621 | 4753094 | 185 | 916  | T84 |
| O_1380 | 36.3 | 622006 | 4766429 | 190 | 1194 | T01 |  | O_2951 | 32.5 | 628817 | 4761935 | 180 | 1208 | T29 |  | P_1293 | 39.4 | 621674 | 4755402 | 181 | 767  | T13 |
| O_1381 | 37.2 | 622006 | 4761204 | 181 | 884  | T95 |  | O_2952 | 31.2 | 628817 | 4761709 | 183 | 1428 | T29 |  | P_1300 | 39.4 | 621726 | 4755431 | 181 | 760  | T13 |
| O_1382 | 37.2 | 622006 | 4761204 | 181 | 884  | T95 |  | O_296  | 38.5 | 616705 | 4766250 | 189 | 794  | T97 |  | P_1322 | 39.5 | 621819 | 4748739 | 183 | 725  | T47 |
| O_1383 | 36.0 | 622012 | 4766701 | 190 | 1212 | T06 |  | O_2960 | 31.2 | 628885 | 4772422 | 185 | 1373 | T80 |  | P_1375 | 39.3 | 621991 | 4761415 | 180 | 1000 | T95 |
| O_1384 | 38.8 | 622012 | 4764423 | 185 | 666  | T75 |  | O_2964 | 37.7 | 628917 | 4768271 | 188 | 780  | T58 |  | P_1429 | 38.5 | 622096 | 4755479 | 180 | 940  | T13 |
| O_1387 | 37.3 | 622026 | 4761205 | 181 | 866  | T95 |  | O_2967 | 37.4 | 628942 | 4766756 | 189 | 990  | T58 |  | P_1523 | 39.3 | 622322 | 4763635 | 180 | 575  | T36 |
| O_1388 | 37.3 | 622027 | 4761205 | 181 | 866  | T95 |  | O_297  | 39.3 | 616708 | 4763383 | 185 | 705  | T51 |  | P_1554 | 38.0 | 622432 | 4761563 | 179 | 810  | T95 |
| O_139  | 36.1 | 615325 | 4765533 | 187 | 998  | T08 |  | O_2987 | 38.0 | 629098 | 4764048 | 185 | 898  | T78 |  | P_1562 | 41.5 | 622470 | 4763422 | 180 | 370  | T36 |
| O_1391 | 34.0 | 622040 | 4770097 | 190 | 1109 | T28 |  | O_2993 | 34.6 | 629134 | 4768816 | 185 | 1359 | T58 |  | P_1567 | 39.0 | 622501 | 4751591 | 182 | 685  | T62 |
| O_1392 | 37.4 | 622051 | 4761209 | 181 | 845  | T95 |  | O_2994 | 36.1 | 629134 | 4768523 | 185 | 1112 | T58 |  | P_1584 | 38.9 | 622599 | 4767952 | 193 | 759  | T27 |
| O_1394 | 33.6 | 622054 | 4770163 | 190 | 1163 | T28 |  | O_2998 | 37.4 | 629147 | 4768284 | 185 | 939  | T58 |  | P_1610 | 42.7 | 622733 | 4754331 | 180 | 429  | T65 |
| O_1396 | 36.2 | 622060 | 4767512 | 191 | 1070 | T06 |  | O_3002 | 33.0 | 629179 | 4772474 | 180 | 1120 | T80 |  | P_1613 | 38.7 | 622739 | 4761436 | 181 | 590  | T95 |
| O_1397 | 33.2 | 622060 | 4770234 | 190 | 1226 | T28 |  | O_3004 | 38.0 | 629188 | 4764115 | 185 | 880  | T03 |  | P_1666 | 46.0 | 622961 | 4754427 | 180 | 253  | T65 |
| O_1398 | 33.0 | 622061 | 4770262 | 190 | 1252 | T28 |  | O_3005 | 38.0 | 629188 | 4764072 | 185 | 854  | T03 |  | P_1688 | 40.6 | 623038 | 4765135 | 185 | 612  | T01 |
| O_140  | 33.6 | 615327 | 4763951 | 185 | 1238 | T08 |  | O_3006 | 34.9 | 629189 | 4768750 | 185 | 1325 | T59 |  | P_1690 | 39.9 | 623062 | 4766552 | 190 | 694  | T06 |
| O_1402 | 34.9 | 622064 | 4769972 | 185 | 987  | T28 |  | O_301  | 33.6 | 616739 | 4768265 | 194 | 1357 | T81 |  | P_1703 | 41.7 | 623101 | 4755153 | 182 | 488  | T65 |
| O_1404 | 39.0 | 622066 | 4768266 | 195 | 644  | T27 |  | O_3012 | 39.0 | 629217 | 4767955 | 185 | 798  | T59 |  | P_1711 | 40.3 | 623121 | 4765056 | 185 | 702  | T01 |
| O_1408 | 32.9 | 622069 | 4770287 | 190 | 1273 | T28 |  | O_3014 | 37.4 | 629221 | 4768293 | 185 | 966  | T59 |  | P_1727 | 39.9 | 623171 | 4759596 | 180 | 613  | T10 |
| O_1409 | 39.6 | 622070 | 4768334 | 195 | 597  | T27 |  | O_3016 | 38.9 | 629229 | 4767241 | 185 | 850  | T58 |  | P_1765 | 41.4 | 623422 | 4765171 | 185 | 590  | T76 |
| O_141  | 33.5 | 615327 | 4763885 | 185 | 1290 | T08 |  | O_302  | 35.3 | 616743 | 4767851 | 190 | 971  | T81 |  | P_1846 | 41.0 | 623736 | 4765098 | 185 | 629  | T76 |
| O_1411 | 32.6 | 622075 | 4770330 | 190 | 1311 | T28 |  | O_3021 | 37.6 | 629266 | 4766710 | 189 | 983  | T18 |  | P_1848 | 41.5 | 623749 | 4763990 | 180 | 427  | T55 |
| O_1412 | 36.4 | 622077 | 4766472 | 190 | 1164 | T01 |  | O_3023 | 38.0 | 629268 | 4764095 | 185 | 804  | T03 |  | P_1872 | 41.0 | 623844 | 4765184 | 185 | 573  | T76 |
| O_1415 | 32.4 | 622080 | 4770375 | 190 | 1352 | T28 |  | O_3025 | 38.9 | 629286 | 4763298 | 185 | 671  | T03 |  | P_191  | 43.4 | 615738 | 4771386 | 191 | 336  | T88 |
| O_1416 | 32.1 | 622080 | 4770423 | 190 | 1397 | T28 |  | O_3026 | 37.9 | 629300 | 4764159 | 185 | 823  | T03 |  | P_197  | 36.5 | 615823 | 4771824 | 190 | 765  | T88 |
| O_1417 | 31.6 | 622081 | 4770512 | 190 | 1482 | T28 |  | O_3027 | 39.7 | 629302 | 4767812 | 185 | 676  | T59 |  | P_1981 | 40.2 | 624061 | 4765197 | 185 | 671  | T76 |
| O_1418 | 34.1 | 622081 | 4770099 | 190 | 1094 | T28 |  | O_3029 | 35.6 | 629319 | 4771724 | 187 | 905  | T80 |  | P_1994 | 35.3 | 624118 | 4753544 | 185 | 980  | T89 |
| O_1419 | 37.5 | 622081 | 4752247 | 184 | 958  | T62 |  | O_3030 | 40.0 | 629320 | 4767722 | 185 | 646  | T59 |  | P_2030 | 35.0 | 624194 | 4753418 | 185 | 1011 | T89 |
| O_142  | 36.1 | 615328 | 4765537 | 187 | 1002 | T08 |  | O_3031 | 36.3 | 629324 | 4762740 | 182 | 901  | T29 |  | P_2084 | 38.3 | 624395 | 4768064 | 190 | 634  | T57 |
| O_1420 | 32.2 | 622083 | 4770408 | 190 | 1383 | T28 |  | O_3032 | 38.5 | 629326 | 4767072 | 186 | 878  | T59 |  | P_2090 | 39.2 | 624454 | 4750143 | 180 | 892  | T48 |
| O_1421 | 32.3 | 622085 | 4770394 | 190 | 1369 | T28 |  | O_3033 | 37.8 | 629339 | 4766729 | 189 | 930  | T18 |  | P_2165 | 39.2 | 624792 | 4763832 | 183 | 578  | T32 |
| O_1422 | 32.4 | 622085 | 4770362 | 190 | 1338 | T28 |  | O_3035 | 36.7 | 629342 | 4765463 | 188 | 1021 | T78 |  | P_225  | 38.0 | 616142 | 4767556 | 190 | 622  | T81 |
| O_1423 | 31.8 | 622085 | 4770478 | 190 | 1448 | T28 |  | O_3036 | 39.2 | 629343 | 4763833 | 185 | 601  | T03 |  | P_2250 | 38.0 | 625016 | 4768416 | 190 | 644  | T57 |
| O_1425 | 38.2 | 622089 | 4764335 | 185 | 760  | T75 |  | O_3039 | 37.4 | 629352 | 4764867 | 185 | 775  | T78 |  | P_2293 | 40.2 | 625246 | 4765256 | 185 | 573  | T31 |
| O_1426 | 37.8 | 622093 | 4752682 | 184 | 813  | T84 |  | O_3040 | 36.8 | 629354 | 4765263 | 186 | 910  | T78 |  | P_2359 | 37.3 | 625758 | 4747261 | 185 | 917  | T61 |
| O_1427 | 37.6 | 622094 | 4761205 | 181 | 805  | T95 |  | O_3041 | 32.4 | 629354 | 4762097 | 179 | 1318 | T29 |  | P_2529 | 40.5 | 626407 | 4769228 | 190 | 446  | T56 |
| O_1428 | 37.6 | 622095 | 4761206 | 181 | 805  | T95 |  | O_3043 | 38.1 | 629355 | 4764103 | 185 | 744  | T03 |  | P_2544 | 39.7 | 626570 | 4763961 | 185 | 636  | T34 |
| O_143  | 36.7 | 615329 | 4766206 | 190 | 895  | T53 |  | O_3046 | 36.8 | 629357 | 4765296 | 187 | 930  | T78 |  | P_2548 | 40.9 | 626634 | 4765414 | 186 | 632  | T33 |
| O_1430 | 38.1 | 622097 | 4764255 | 183 | 794  | T75 |  | O_3047 | 36.9 | 629357 | 4765167 | 186 | 866  | T78 |  | P_2550 | 40.9 | 626653 | 4765264 | 185 | 693  | T34 |
| O_1431 | 36.6 | 622098 | 4766410 | 190 | 1109 | T01 |  | O_3048 | 37.1 | 629360 | 4765047 | 185 | 822  | T78 |  | P_2579 | 43.8 | 626952 | 4765571 | 188 | 380  | T33 |
| O_1437 | 33.7 | 622104 | 4770160 | 190 | 1141 | T28 |  | O_3049 | 37.5 | 629360 | 4764369 | 185 | 882  | T78 |  | P_2587 | 40.7 | 626995 | 4763978 | 185 | 533  | T35 |
| O_1438 | 33.5 | 622107 | 4770201 |     |      |     |  |        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |

|        |      |        |         |     |      |     |  |               |             |               |                |            |            |            |  |        |      |        |         |     |      |     |
|--------|------|--------|---------|-----|------|-----|--|---------------|-------------|---------------|----------------|------------|------------|------------|--|--------|------|--------|---------|-----|------|-----|
| O_1467 | 37.5 | 622157 | 4752247 | 184 | 978  | T62 |  | O_3073        | 33.1        | 629401        | 4762237        | 182        | 1249       | T29        |  | P_3708 | 39.8 | 624914 | 4763900 | 185 | 527  | T32 |
| O_1469 | 37.2 | 622162 | 4757289 | 180 | 1244 | T41 |  | O_3074        | 36.1        | 629402        | 4771595        | 186        | 875        | T80        |  | P_382  | 39.6 | 617180 | 4766206 | 189 | 566  | T97 |
| O_147  | 36.1 | 615336 | 4765510 | 187 | 993  | T08 |  | O_3075        | 34.2        | 629402        | 4772553        | 185        | 969        | T80        |  | P_3893 | 41.7 | 627693 | 4749818 | 180 | 425  | T24 |
| O_1470 | 38.5 | 622163 | 4755583 | 180 | 926  | T13 |  | O_3076        | 37.6        | 629402        | 4764284        | 185        | 852        | T03        |  | P_3894 | 39.5 | 622029 | 4749158 | 182 | 733  | T46 |
| O_1471 | 37.9 | 622165 | 4761221 | 181 | 749  | T95 |  | O_3077        | 36.6        | 629402        | 4765330        | 187        | 987        | T78        |  | P_3895 | 38.4 | 622621 | 4751424 | 182 | 753  | T62 |
| O_1472 | 31.9 | 622178 | 4770479 | 190 | 1424 | T28 |  | O_3078        | 33.9        | 629403        | 4772607        | 185        | 1000       | T80        |  | P_3897 | 42.1 | 627442 | 4768130 | 190 | 398  | T04 |
| O_1474 | 33.6 | 622184 | 4770200 | 190 | 1153 | T28 |  | O_3079        | 36.5        | 629406        | 4772028        | 185        | 781        | T80        |  | P_3902 | 38.5 | 614181 | 4767160 | 193 | 630  | T52 |
| O_1476 | 37.5 | 622187 | 4767902 | 193 | 877  | T27 |  | O_3080        | 36.7        | 629407        | 4765239        | 186        | 943        | T78        |  | P_411  | 40.4 | 617317 | 4763230 | 185 | 563  | T51 |
| O_1477 | 34.3 | 622188 | 4770096 | 190 | 1053 | T28 |  | O_3081        | 37.9        | 629408        | 4764174        | 185        | 760        | T03        |  | P_439  | 40.3 | 617463 | 4764813 | 185 | 546  | T39 |
| O_1478 | 38.0 | 622189 | 4761223 | 181 | 730  | T95 |  | O_3082        | 37.8        | 629409        | 4766070        | 189        | 731        | T18        |  | P_461  | 39.7 | 617609 | 4764824 | 185 | 604  | T39 |
| O_1479 | 37.2 | 622195 | 4767822 | 193 | 949  | T27 |  | O_3083        | 32.9        | 629410        | 4762205        | 180        | 1278       | T29        |  | P_567  | 37.9 | 618224 | 4752489 | 184 | 604  | T98 |
| O_148  | 34.2 | 615344 | 4767601 | 192 | 1183 | T81 |  | O_3084        | 35.4        | 629411        | 4762630        | 182        | 1027       | T29        |  | P_580  | 40.1 | 618345 | 4767663 | 190 | 537  | T93 |
| O_1481 | 36.7 | 622198 | 4766556 | 190 | 1130 | T01 |  | O_3085        | 38.2        | 629415        | 4764124        | 185        | 718        | T03        |  | P_590  | 37.5 | 618408 | 4752569 | 185 | 637  | T98 |
| O_1489 | 36.9 | 622210 | 4747133 | 186 | 1210 | T05 |  | O_3086        | 34.1        | 629416        | 4771069        | 190        | 1123       | T79        |  | P_595  | 44.7 | 618453 | 4768755 | 195 | 299  | T94 |
| O_1491 | 36.8 | 622215 | 4758503 | 182 | 906  | T37 |  | O_3087        | 32.3        | 629417        | 4762131        | 175        | 1336       | T29        |  | P_642  | 38.3 | 618759 | 4754396 | 185 | 637  | T82 |
| O_1492 | 38.0 | 622215 | 4762190 | 180 | 888  | T36 |  | O_3088        | 36.6        | 629418        | 4765276        | 187        | 971        | T78        |  | P_67   | 39.5 | 614393 | 4765788 | 190 | 618  | T53 |
| O_1494 | 32.1 | 622216 | 4770446 | 190 | 1383 | T28 |  | O_309         | 33.6        | 616802        | 4769948        | 198        | 1245       | T83        |  | P_689  | 44.1 | 618924 | 4764034 | 185 | 289  | T07 |
| O_1495 | 36.4 | 622217 | 4757569 | 180 | 1415 | T41 |  | O_3090        | 38.5        | 629423        | 4768195        | 185        | 750        | T59        |  | P_690  | 39.0 | 618929 | 4763574 | 181 | 562  | T07 |
| O_1497 | 36.5 | 622226 | 4757487 | 180 | 1383 | T41 |  | O_3091        | 37.8        | 629431        | 4765990        | 188        | 732        | T18        |  | P_703  | 39.1 | 618972 | 4767763 | 191 | 781  | T66 |
| O_150  | 36.1 | 615346 | 4764717 | 185 | 825  | T08 |  | O_3092        | 36.9        | 629440        | 4771774        | 185        | 775        | T80        |  | P_72   | 39.1 | 614498 | 4765557 | 190 | 648  | T08 |
| O_1500 | 38.3 | 622232 | 4755540 | 180 | 1007 | T13 |  | O_3093        | 36.9        | 629442        | 4771747        | 185        | 781        | T80        |  | P_743  | 38.7 | 619257 | 4767798 | 192 | 743  | T66 |
| O_1501 | 39.6 | 622234 | 4749400 | 182 | 663  | T46 |  | O_3095        | 36.5        | 629455        | 4765226        | 186        | 980        | T78        |  | P_757  | 36.9 | 619378 | 4754477 | 185 | 1015 | T42 |
| O_1502 | 37.8 | 622234 | 4765030 | 185 | 1004 | T75 |  | O_3097        | 37.9        | 629475        | 4764211        | 185        | 750        | T03        |  | P_815  | 39.4 | 619830 | 4756972 | 180 | 811  | T91 |
| O_1504 | 37.7 | 622251 | 4752150 | 183 | 919  | T62 |  | O_3098        | 37.7        | 629476        | 4764261        | 185        | 791        | T03        |  | P_816  | 39.6 | 619841 | 4765022 | 188 | 581  | T54 |
| O_1505 | 33.6 | 622251 | 4770213 | 190 | 1148 | T28 |  | O_3100        | 35.2        | 629479        | 4772495        | 180        | 872        | T80        |  | P_827  | 38.9 | 619941 | 4749526 | 180 | 711  | T20 |
| O_1507 | 32.3 | 622256 | 4770417 | 190 | 1347 | T28 |  | O_3102        | 37.0        | 629502        | 4764502        | 185        | 963        | T78        |  | P_839  | 39.5 | 620023 | 4757321 | 182 | 829  | T72 |
| O_1508 | 37.4 | 622259 | 4752371 | 184 | 1047 | T84 |  | O_3103        | 37.4        | 629507        | 4764337        | 185        | 843        | T03        |  | P_848  | 39.6 | 620050 | 4749472 | 181 | 592  | T20 |
| O_1509 | 31.6 | 622264 | 4770549 | 186 | 1475 | T28 |  | O_3105        | 37.0        | 629516        | 4771517        | 185        | 817        | T80        |  | P_939  | 39.2 | 620400 | 4766345 | 187 | 651  | T38 |
| O_1511 | 32.5 | 622288 | 4770391 | 190 | 1316 | T28 |  | O_3106        | 37.8        | 629518        | 4771765        | 185        | 703        | T80        |  | P_960  | 40.0 | 620500 | 4754958 | 183 | 571  | T19 |
| O_1513 | 33.7 | 622292 | 4770204 | 190 | 1130 | T28 |  | O_3107        | 37.4        | 629518        | 4772160        | 183        | 691        | T80        |  | V_104  | 39.4 | 614831 | 4765389 | 188 | 557  | T08 |
| O_1514 | 38.2 | 622294 | 4755568 | 180 | 1043 | T13 |  | O_3109        | 32.5        | 629528        | 4770594        | 190        | 1349       | T79        |  | V_1041 | 36.4 | 620779 | 4763617 | 185 | 1070 | T74 |
| O_1518 | 37.6 | 622302 | 4764000 | 180 | 940  | T36 |  | O_3111        | 38.4        | 629540        | 4764147        | 185        | 661        | T03        |  | V_1052 | 36.4 | 620802 | 4763561 | 185 | 1021 | T74 |
| O_152  | 36.3 | 615347 | 4765950 | 189 | 1000 | T53 |  | O_3112        | 38.5        | 629540        | 4765971        | 189        | 637        | T18        |  | V_1057 | 39.1 | 620810 | 4750114 | 180 | 794  | T20 |
| O_1521 | 31.5 | 622316 | 4770505 | 185 | 1423 | T28 |  | O_3113        | 34.2        | 629548        | 4772711        | 185        | 967        | T80        |  | V_1067 | 35.9 | 620840 | 4758277 | 185 | 1155 | T72 |
| O_1524 | 38.0 | 622322 | 4755719 | 182 | 997  | T13 |  | O_3115        | 37.8        | 629556        | 4764234        | 185        | 728        | T03        |  | V_1071 | 36.4 | 620845 | 4754148 | 185 | 1048 | T42 |
| O_1525 | 32.7 | 622322 | 4770361 | 190 | 1280 | T28 |  | O_3116        | 38.4        | 629568        | 4764156        | 185        | 654        | T03        |  | V_110  | 33.7 | 615144 | 4769829 | 200 | 1115 | T83 |
| O_1526 | 37.6 | 622329 | 4752138 | 183 | 942  | T62 |  | O_3117        | 39.4        | 629577        | 4768185        | 185        | 639        | T59        |  | V_1100 | 36.0 | 620903 | 4747004 | 186 | 796  | T05 |
| O_1527 | 38.1 | 622334 | 4755597 | 181 | 1063 | T13 |  | O_312         | 31.7        | 616817        | 4753735        | 180        | 1354       | T98        |  | V_1102 | 36.8 | 620907 | 4747084 | 186 | 720  | T05 |
| O_1528 | 39.0 | 622338 | 4751818 | 183 | 686  | T62 |  | O_3120        | 33.6        | 629582        | 4770783        | 186        | 1172       | T79        |  | V_1108 | 39.7 | 620934 | 4755121 | 183 | 681  | T19 |
| O_1530 | 33.9 | 622345 | 4770190 | 190 | 1108 | T28 |  | O_3122        | 37.8        | 629606        | 4764250        | 185        | 721        | T03        |  | V_1110 | 36.2 | 620939 | 4753991 | 185 | 1068 | T42 |
| O_1532 | 37.5 | 622354 | 4762128 | 180 | 936  | T36 |  | O_3125        | 33.5        | 629621        | 4762383        | 181        | 1234       | T03        |  | V_1120 | 36.3 | 620968 | 4758224 | 185 | 1111 | T72 |
| O_1533 | 38.2 | 622354 | 4767938 | 193 | 791  | T27 |  | O_3126        | 38.4        | 629632        | 4764175        | 185        | 643        | T03        |  | V_1121 | 37.6 | 620969 | 4766447 | 188 | 757  | T38 |
| O_1534 | 32.9 | 622356 | 4770337 | 190 | 1252 | T28 |  | O_3128        | 37.8        | 629647        | 4764257        | 185        | 712        | T03        |  | V_1122 | 39.8 | 620971 | 4749867 | 180 | 628  | T20 |
| O_1535 | 32.1 | 622361 | 4770472 | 190 | 1385 | T28 |  | O_3130        | 39.7        | 629667        | 4768216        | 185        | 617        | T59        |  | V_1124 | 38.9 | 620978 | 4748746 | 182 | 691  | T20 |
| O_1537 | 38.0 | 622371 | 4765105 | 185 | 887  | T01 |  | O_3133        | 38.7        | 629688        | 4764157        | 185        | 604        | T03        |  | V_1162 | 38.8 | 621095 | 4748789 | 182 | 724  | T20 |
| O_1541 | 37.5 | 622386 | 4747128 | 185 | 1323 | T47 |  | O_3135        | 33.7        | 629724        | 4770707        | 185        | 1140       | T79        |  | V_1189 | 37.0 | 621193 | 4758095 | 184 | 1040 | T72 |
| O_1542 | 33.2 | 622389 | 4770304 | 190 | 1215 | T28 |  | O_3138        | 36.7        | 629824        | 4772622        | 183        | 733        | T80        |  | V_1190 | 38.4 | 621193 | 4751834 | 183 | 861  | T62 |
| O_1543 | 32.3 | 622395 | 4770443 | 190 | 1352 | T28 |  | <b>V_3139</b> | <b>39.1</b> | <b>629843</b> | <b>4771318</b> | <b>185</b> | <b>628</b> | <b>T79</b> |  | V_1195 | 35.8 | 621203 | 4753582 | 185 | 1268 | T42 |
| O_1544 | 38.1 | 622396 | 4751936 | 183 | 812  | T62 |  | O_314         | 38.9        | 616841        | 4766189        | 189        | 663        | T97        |  | V_1210 | 35.5 | 621249 | 4762014 | 185 | 1069 | T74 |
| O_1546 | 39.7 | 622414 | 4754205 | 180 | 741  | T65 |  | O_3141        | 36.0        | 629915        | 4765308        | 188        | 944        | T18        |  | V_1219 | 35.9 | 621277 | 4753727 | 185 | 1255 | T84 |
| O_1547 | 37.0 | 622424 | 4759567 | 180 | 921  | T37 |  | <b>V_3142</b> | <b>39.8</b> | <b>629916</b> | <b>4771316</b> | <b>185</b> | <b>567</b> | <b>T79</b> |  | V_1230 | 38.9 | 621316 | 4763588 | 185 | 677  | T74 |
| O_1549 | 37.8 | 622425 | 4763874 | 180 | 812  | T36 |  | O_3143        | 37.2        | 629923        | 4772624        | 184        | 692        | T80        |  | V_1236 | 38.6 | 621357 | 4755146 | 183 | 978  | T13 |
| O_1557 | 32.5 | 622442 | 4770413 | 190 | 1319 | T28 |  | O_3144        | 37.2        | 629933        | 4764309        | 185        | 723        | T03        |  | V_1243 | 35.7 | 621369 | 4758305 | 185 | 1301 | T72 |
| O_1558 | 33.5 | 622444 | 4770259 | 190 | 1166 | T28 |  | O_3145        | 33.9        | 629952        | 4770636        | 185        | 1090       | T79        |  | V_1251 | 36.6 | 621399 | 4747003 | 188 | 785  | T05 |
| O_1559 | 39.0 | 622454 | 4749660 | 181 | 748  | T46 |  | O_3146        | 39.6        | 629968        | 4768328        | 187        | 652        | T59        |  | V_1261 | 38.0 | 621434 | 4757850 | 183 | 947  | T72 |
| O_1560 | 37.9 | 622463 | 4766510 | 190 | 927  | T01 |  | O_3147        | 37.3        | 629971        | 4772629        | 183        | 680        | T80        |  | V_1267 | 34.5 | 621502 | 4761141 | 181 | 1346 | T95 |
| O_1561 | 38.9 | 622470 | 4763643 | 180 | 587  | T36 |  | O_3150        | 37.5        | 630028        | 4772631        | 181        | 666        | T80        |  | V_1268 | 33.4 | 621523 | 4760546 | 185 | 1329 | T95 |
| O_1563 | 37.3 | 622476 | 4759569 | 180 | 889  | T37 |  | O_3153        | 37.6        | 630049        | 4772629        | 181        | 659        | T80        |  | V_1270 | 33.2 | 621530 | 4760438 | 185 | 1352 | T95 |
| O_1564 | 32.7 | 622479 | 4770376 | 190 | 1281 | T28 |  | O_3154        | 37.7        | 630077        | 4772627        | 181        | 652        | T80        |  | V_1272 | 39.7 | 621547 | 4755384 | 182 | 751  | T13 |

|        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |
|--------|------|--------|---------|-----|------|-----|--|--------|------|--------|---------|-----|------|-----|--|--------|------|--------|---------|-----|------|-----|
| O_1600 | 37.9 | 622669 | 4751522 | 182 | 820  | T62 |  | O_3179 | 34.9 | 630421 | 4764377 | 187 | 951  | T03 |  | V_1385 | 38.9 | 622014 | 4749325 | 182 | 807  | T46 |
| O_1602 | 39.5 | 622682 | 4769629 | 186 | 558  | T28 |  | O_318  | 34.6 | 616856 | 4771254 | 193 | 1058 | T88 |  | V_1386 | 37.6 | 622014 | 4769614 | 186 | 722  | T28 |
| O_1603 | 35.4 | 622690 | 4757622 | 180 | 1307 | T37 |  | O_3180 | 39.6 | 630433 | 4768265 | 187 | 604  | T60 |  | V_1389 | 37.2 | 622032 | 4752446 | 184 | 1051 | T84 |
| O_1605 | 38.8 | 622699 | 4765020 | 185 | 780  | T01 |  | O_3181 | 38.8 | 630445 | 4768333 | 187 | 672  | T60 |  | V_1414 | 35.3 | 622079 | 4759548 | 183 | 1168 | T37 |
| O_1608 | 36.8 | 622714 | 4755820 | 184 | 1172 | T65 |  | O_3182 | 35.4 | 630448 | 4770760 | 184 | 879  | T79 |  | V_1424 | 39.1 | 622087 | 4749360 | 182 | 759  | T46 |
| O_1609 | 36.1 | 622731 | 4762123 | 180 | 1004 | T36 |  | O_3183 | 36.0 | 630466 | 4763116 | 185 | 744  | T03 |  | V_1435 | 38.6 | 622101 | 4756932 | 180 | 1065 | T13 |
| O_161  | 35.9 | 615415 | 4765286 | 186 | 947  | T08 |  | O_3184 | 34.2 | 630469 | 4770621 | 185 | 1019 | T79 |  | V_1436 | 37.9 | 622102 | 4764951 | 185 | 850  | T75 |
| O_1611 | 38.2 | 622733 | 4759658 | 181 | 835  | T37 |  | O_3187 | 39.1 | 630491 | 4766885 | 190 | 753  | T18 |  | V_1443 | 37.7 | 622114 | 4761205 | 181 | 787  | T95 |
| O_1614 | 39.2 | 622741 | 4766446 | 190 | 742  | T01 |  | O_3189 | 34.4 | 630504 | 4770660 | 185 | 984  | T79 |  | V_1452 | 38.9 | 622129 | 4753983 | 182 | 691  | T84 |
| O_1615 | 39.6 | 622743 | 4765147 | 185 | 645  | T01 |  | O_319  | 33.9 | 616880 | 4768207 | 193 | 1351 | T81 |  | V_1462 | 38.4 | 622150 | 4763812 | 180 | 783  | T36 |
| O_1617 | 34.3 | 622753 | 4770142 | 190 | 1072 | T28 |  | O_3191 | 38.9 | 630537 | 4766889 | 190 | 780  | T18 |  | V_1463 | 38.4 | 622150 | 4769623 | 185 | 642  | T28 |
| O_1619 | 38.6 | 622765 | 4747540 | 185 | 950  | T47 |  | O_3192 | 35.2 | 630538 | 4770754 | 185 | 896  | T79 |  | V_1473 | 35.6 | 622184 | 4759623 | 180 | 1132 | T37 |
| O_162  | 35.9 | 615417 | 4765289 | 186 | 950  | T08 |  | O_3193 | 36.6 | 630551 | 4772660 | 180 | 768  | T80 |  | V_1475 | 36.9 | 622185 | 4759011 | 181 | 863  | T37 |
| O_1621 | 35.9 | 622790 | 4762100 | 180 | 1047 | T36 |  | O_3194 | 34.0 | 630576 | 4764410 | 188 | 1071 | T03 |  | V_1480 | 38.1 | 622196 | 4760773 | 185 | 625  | T95 |
| O_1623 | 38.0 | 622797 | 4759731 | 182 | 873  | T10 |  | O_3195 | 36.5 | 630587 | 4772655 | 180 | 781  | T80 |  | V_1482 | 37.7 | 622200 | 4760616 | 185 | 659  | T95 |
| O_1624 | 39.6 | 622798 | 4747175 | 185 | 1310 | T47 |  | O_3196 | 37.8 | 630596 | 4768345 | 186 | 736  | T60 |  | V_1483 | 37.0 | 622205 | 4760457 | 185 | 728  | T95 |
| O_1626 | 37.7 | 622801 | 4763750 | 183 | 806  | T36 |  | O_3197 | 38.1 | 630635 | 4768286 | 186 | 702  | T60 |  | V_1484 | 36.6 | 622205 | 4760364 | 185 | 782  | T95 |
| O_1627 | 39.4 | 622805 | 4749665 | 181 | 700  | T46 |  | O_3198 | 33.5 | 630640 | 4764516 | 189 | 1193 | T03 |  | V_1485 | 36.1 | 622205 | 4760252 | 184 | 856  | T95 |
| O_1628 | 36.7 | 622815 | 4755778 | 185 | 1112 | T65 |  | O_32   | 32.1 | 613320 | 4764699 | 185 | 1243 | T08 |  | V_1486 | 36.3 | 622207 | 4760296 | 184 | 824  | T95 |
| O_163  | 32.9 | 615444 | 4763020 | 185 | 1417 | T09 |  | O_320  | 32.3 | 616900 | 4753630 | 180 | 1231 | T98 |  | V_1488 | 35.9 | 622209 | 4760180 | 183 | 905  | T95 |
| O_1632 | 35.9 | 622825 | 4762142 | 180 | 1023 | T36 |  | O_3202 | 34.0 | 630699 | 4770660 | 180 | 1027 | T79 |  | V_1490 | 35.7 | 622211 | 4760102 | 183 | 964  | T95 |
| O_1633 | 39.4 | 622835 | 4766529 | 190 | 761  | T06 |  | O_3204 | 33.3 | 630720 | 4764407 | 189 | 1165 | T03 |  | V_1493 | 35.6 | 622215 | 4760015 | 182 | 1030 | T95 |
| O_1634 | 35.1 | 622839 | 4757583 | 180 | 1313 | T37 |  | O_3206 | 33.7 | 630804 | 4764082 | 188 | 1038 | T03 |  | V_1496 | 35.5 | 622220 | 4759930 | 181 | 1098 | T95 |
| O_1636 | 39.5 | 622845 | 4766455 | 190 | 724  | T01 |  | O_3207 | 34.4 | 630811 | 4770764 | 180 | 971  | T79 |  | V_1498 | 38.2 | 622231 | 4761225 | 180 | 695  | T95 |
| O_1637 | 33.3 | 622846 | 4770265 | 190 | 1215 | T28 |  | O_3208 | 35.1 | 630819 | 4772667 | 181 | 931  | T80 |  | V_1499 | 36.8 | 622232 | 4757310 | 180 | 1317 | T41 |
| O_1638 | 36.0 | 622849 | 4762264 | 180 | 927  | T36 |  | O_3209 | 34.5 | 630826 | 4772734 | 184 | 986  | T80 |  | V_1506 | 38.2 | 622255 | 4755623 | 181 | 982  | T13 |
| O_164  | 36.3 | 615444 | 4766146 | 189 | 1021 | T53 |  | O_321  | 31.6 | 616900 | 4752401 | 180 | 1257 | T98 |  | V_1510 | 37.1 | 622278 | 4766506 | 190 | 1039 | T01 |
| O_1641 | 37.7 | 622865 | 4763665 | 182 | 774  | T36 |  | O_3211 | 34.0 | 630894 | 4772746 | 182 | 1040 | T80 |  | V_1516 | 39.1 | 622296 | 4754165 | 180 | 795  | T84 |
| O_1642 | 37.9 | 622878 | 4755538 | 181 | 865  | T65 |  | O_3212 | 32.2 | 630918 | 4764626 | 190 | 1460 | T03 |  | V_1517 | 37.9 | 622298 | 4752046 | 183 | 847  | T62 |
| O_1643 | 36.3 | 622881 | 4755866 | 185 | 1191 | T65 |  | O_3213 | 39.2 | 630929 | 4771501 | 184 | 562  | T79 |  | V_1519 | 34.4 | 622304 | 4770121 | 190 | 1047 | T28 |
| O_1645 | 35.6 | 622889 | 4762111 | 180 | 1080 | T36 |  | O_3214 | 34.4 | 630930 | 4772674 | 180 | 1014 | T80 |  | V_1520 | 38.5 | 622310 | 4751917 | 183 | 744  | T62 |
| O_1646 | 37.4 | 622895 | 4761561 | 180 | 715  | T95 |  | O_3215 | 32.2 | 630939 | 4764497 | 190 | 1387 | T03 |  | V_1531 | 37.4 | 622348 | 4766512 | 190 | 998  | T01 |
| O_1647 | 36.9 | 622898 | 4751112 | 181 | 1040 | T62 |  | O_3216 | 32.0 | 630975 | 4764619 | 190 | 1496 | T03 |  | V_1536 | 36.7 | 622366 | 4759563 | 180 | 958  | T37 |
| O_1649 | 39.6 | 622911 | 4759571 | 181 | 678  | T10 |  | O_3217 | 31.9 | 631003 | 4764528 | 190 | 1456 | T03 |  | V_1545 | 38.0 | 622398 | 4755588 | 181 | 1082 | T65 |
| O_165  | 36.4 | 615446 | 4766221 | 190 | 1006 | T53 |  | O_3218 | 33.1 | 631016 | 4772782 | 182 | 1151 | T80 |  | V_1548 | 39.0 | 622425 | 4751713 | 182 | 679  | T62 |
| O_1651 | 36.8 | 622917 | 4751069 | 181 | 1068 | T62 |  | O_3219 | 33.3 | 631029 | 4772740 | 181 | 1132 | T80 |  | V_155  | 32.3 | 615358 | 4762588 | 185 | 1432 | T09 |
| O_1656 | 39.4 | 622927 | 4749678 | 181 | 736  | T46 |  | O_3222 | 33.6 | 631042 | 4772683 | 180 | 1105 | T80 |  | V_1550 | 35.8 | 622428 | 4757584 | 180 | 1434 | T37 |
| O_1657 | 35.5 | 622931 | 4762118 | 180 | 1095 | T36 |  | O_3223 | 37.2 | 631043 | 4772073 | 180 | 790  | T79 |  | V_1565 | 33.2 | 622495 | 4770305 | 190 | 1210 | T28 |
| O_1658 | 37.6 | 622936 | 4763662 | 183 | 818  | T36 |  | O_3225 | 34.4 | 631065 | 4765902 | 190 | 997  | T18 |  | V_1566 | 38.4 | 622498 | 4751743 | 182 | 757  | T62 |
| O_166  | 36.4 | 615452 | 4766237 | 190 | 1010 | T53 |  | O_323  | 39.9 | 616908 | 4763380 | 185 | 639  | T51 |  | V_1568 | 37.4 | 622508 | 4755790 | 183 | 1147 | T13 |
| O_1662 | 39.7 | 622948 | 4766556 | 190 | 704  | T06 |  | O_3230 | 32.0 | 631121 | 4770571 | 185 | 1296 | T79 |  | V_1573 | 36.9 | 622543 | 4762185 | 180 | 894  | T36 |
| O_1663 | 38.0 | 622949 | 4763367 | 181 | 646  | T36 |  | O_3232 | 31.6 | 631133 | 4770475 | 185 | 1382 | T79 |  | V_1578 | 36.7 | 622586 | 4762187 | 180 | 901  | T36 |
| O_1664 | 37.7 | 622953 | 4761506 | 180 | 669  | T95 |  | O_3236 | 34.2 | 631162 | 4768311 | 185 | 1085 | T60 |  | V_1581 | 38.7 | 622588 | 4747070 | 185 | 1381 | T47 |
| O_1668 | 39.8 | 622961 | 4755330 | 180 | 651  | T65 |  | O_3239 | 34.9 | 631179 | 4771200 | 181 | 907  | T79 |  | V_1582 | 38.7 | 622589 | 4767849 | 193 | 789  | T06 |
| O_167  | 32.0 | 615459 | 4762118 | 182 | 1408 | T09 |  | O_3240 | 32.1 | 631179 | 4768810 | 185 | 1444 | T60 |  | V_1587 | 38.7 | 622606 | 4762550 | 180 | 561  | T36 |
| O_1672 | 37.7 | 622974 | 4763788 | 184 | 878  | T55 |  | O_3243 | 34.8 | 631192 | 4771191 | 180 | 923  | T79 |  | V_1589 | 38.2 | 622621 | 4762509 | 180 | 605  | T36 |
| O_1675 | 33.8 | 622982 | 4770163 | 190 | 1164 | T28 |  | O_3244 | 35.3 | 631194 | 4771305 | 180 | 875  | T79 |  | V_1590 | 39.2 | 622624 | 4761373 | 182 | 556  | T95 |
| O_1677 | 39.9 | 622992 | 4765045 | 185 | 700  | T01 |  | O_3246 | 35.7 | 631197 | 4767565 | 185 | 927  | T60 |  | V_1591 | 37.6 | 622632 | 4759683 | 181 | 899  | T37 |
| O_1683 | 35.2 | 623026 | 4762121 | 180 | 1143 | T36 |  | O_3247 | 34.6 | 631209 | 4771190 | 180 | 938  | T79 |  | V_1592 | 36.6 | 622632 | 4762187 | 180 | 912  | T36 |
| O_1685 | 36.6 | 623030 | 4761609 | 180 | 787  | T95 |  | O_3248 | 34.0 | 631213 | 4768277 | 185 | 1109 | T60 |  | V_1593 | 38.1 | 622640 | 4763709 | 180 | 696  | T36 |
| O_1686 | 35.3 | 623031 | 4762240 | 180 | 1050 | T36 |  | O_3252 | 34.5 | 631226 | 4771189 | 181 | 954  | T79 |  | V_1595 | 38.6 | 622649 | 4762580 | 180 | 554  | T36 |
| O_1687 | 36.5 | 623038 | 4750759 | 180 | 1286 | T62 |  | O_3253 | 34.7 | 631231 | 4771238 | 180 | 937  | T79 |  | V_1598 | 38.7 | 622666 | 4766527 | 190 | 836  | T06 |
| O_1694 | 37.9 | 623069 | 4760207 | 183 | 692  | T95 |  | O_3254 | 34.4 | 631237 | 4771182 | 182 | 967  | T79 |  | V_1599 | 37.9 | 622667 | 4762496 | 180 | 636  | T36 |
| O_1695 | 33.5 | 623070 | 4770170 | 190 | 1209 | T28 |  | O_3255 | 35.2 | 631237 | 4767355 | 185 | 1014 | T60 |  | V_1601 | 36.4 | 622670 | 4762187 | 180 | 923  | T36 |
| O_1696 | 34.6 | 623074 | 4757512 | 180 | 1369 | T37 |  | O_3256 | 34.7 | 631246 | 4771269 | 180 | 938  | T79 |  | V_1604 | 38.2 | 622695 | 4762561 | 180 | 594  | T36 |
| O_1697 | 37.3 | 623074 | 4763216 | 181 | 712  | T36 |  | O_3257 | 34.4 | 631246 | 4771193 | 182 | 970  | T79 |  | V_1606 | 36.3 | 622708 | 4762189 | 180 | 934  | T36 |
| O_17   | 31.6 | 612851 | 4766482 | 190 | 1365 | T52 |  | O_3258 | 31.6 | 631247 | 4765249 | 190 | 1491 | T18 |  | V_1607 | 37.7 | 622709 | 4762499 | 180 | 654  | T36 |
| O_170  | 30.4 | 615491 | 4772493 | 195 | 1471 | T88 |  | O_3259 | 34.6 | 631248 | 4771260 | 180 | 943  | T79 |  | V_1612 | 37.8 | 622737 | 4762539 | 180 | 635  | T36 |
| O_1700 | 35.3 | 623091 | 4762381 | 180 | 986  | T36 |  | O_326  | 36.3 | 616928 | 4767591 | 190 | 855  | T81 |  | V_1616 | 37.4 | 622747 | 4762488 | 180 | 683  | T36 |
| O_1701 | 35.3 |        |         |     |      |     |  |        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |



|        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |        |      |        |         |     |      |     |
|--------|------|--------|---------|-----|------|-----|--|--------|------|--------|---------|-----|------|-----|--------|------|--------|---------|-----|------|-----|
| O_173  | 36.3 | 615525 | 4766232 | 190 | 1082 | T53 |  | O_3282 | 34.4 | 631285 | 4771273 | 180 | 972  | T79 | V_1665 | 35.9 | 622958 | 4762404 | 180 | 878  | T36 |
| O_1730 | 35.9 | 623181 | 4761633 | 178 | 863  | T95 |  | O_3283 | 34.4 | 631288 | 4771295 | 180 | 967  | T79 | V_1667 | 35.0 | 622961 | 4757598 | 180 | 1285 | T37 |
| O_1731 | 36.6 | 623190 | 4763145 | 181 | 815  | T36 |  | O_3284 | 34.5 | 631289 | 4771324 | 180 | 957  | T79 | V_1669 | 35.5 | 622968 | 4762245 | 180 | 1008 | T36 |
| O_1732 | 34.8 | 623218 | 4762376 | 180 | 1085 | T36 |  | O_3285 | 34.5 | 631289 | 4771309 | 180 | 962  | T79 | V_1670 | 35.7 | 622969 | 4762316 | 180 | 952  | T36 |
| O_1733 | 34.9 | 623225 | 4762440 | 180 | 1051 | T36 |  | O_3286 | 34.5 | 631289 | 4771325 | 180 | 957  | T79 | V_1671 | 35.8 | 622972 | 4762365 | 180 | 916  | T36 |
| O_1734 | 39.9 | 623228 | 4766552 | 190 | 705  | T06 |  | O_3288 | 34.4 | 631290 | 4771308 | 180 | 963  | T79 | V_1673 | 35.4 | 622974 | 4762174 | 180 | 1070 | T36 |
| O_1735 | 36.8 | 623234 | 4755583 | 180 | 938  | T65 |  | O_3289 | 34.4 | 631290 | 4771285 | 180 | 972  | T79 | V_1676 | 36.6 | 622983 | 4750853 | 180 | 1198 | T62 |
| O_1738 | 34.5 | 623258 | 4762070 | 180 | 1297 | T95 |  | O_3290 | 34.4 | 631290 | 4771295 | 180 | 968  | T79 | V_168  | 32.1 | 615464 | 4762174 | 185 | 1386 | T09 |
| O_174  | 34.6 | 615549 | 4767647 | 192 | 1045 | T81 |  | O_3291 | 34.4 | 631290 | 4771285 | 180 | 972  | T79 | V_1684 | 39.2 | 623027 | 4752564 | 184 | 626  | T89 |
| O_1741 | 34.7 | 623263 | 4762397 | 180 | 1107 | T36 |  | O_3293 | 34.6 | 631296 | 4771372 | 180 | 950  | T79 | V_1689 | 35.8 | 623059 | 4755875 | 184 | 1198 | T65 |
| O_1742 | 39.0 | 623265 | 4763874 | 182 | 624  | T55 |  | O_3294 | 34.5 | 631298 | 4771332 | 180 | 963  | T79 | V_1692 | 39.6 | 623068 | 4758264 | 180 | 618  | T37 |
| O_1743 | 36.0 | 623277 | 4763043 | 180 | 899  | T36 |  | O_3295 | 33.9 | 631298 | 4771191 | 184 | 1017 | T79 | V_1693 | 38.5 | 623069 | 4760288 | 183 | 617  | T95 |
| O_1744 | 34.7 | 623299 | 4762480 | 180 | 1089 | T36 |  | O_3296 | 34.4 | 631299 | 4771331 | 180 | 964  | T79 | V_1698 | 37.0 | 623074 | 4769670 | 187 | 800  | T28 |
| O_1746 | 39.7 | 623319 | 4759601 | 180 | 614  | T10 |  | O_3297 | 34.2 | 631299 | 4771262 | 181 | 989  | T79 | V_1699 | 37.6 | 623077 | 4760135 | 183 | 761  | T95 |
| O_1748 | 34.5 | 623330 | 4762385 | 180 | 1168 | T36 |  | O_3298 | 31.6 | 631300 | 4765347 | 190 | 1472 | T18 | V_1709 | 37.4 | 623109 | 4759967 | 182 | 931  | T95 |
| O_1751 | 34.6 | 623339 | 4762501 | 180 | 1113 | T36 |  | O_3299 | 31.9 | 631303 | 4765483 | 190 | 1396 | T18 | V_1716 | 38.5 | 623130 | 4759737 | 181 | 758  | T10 |
| O_1754 | 35.1 | 623359 | 4755842 | 182 | 1222 | T65 |  | O_3300 | 34.4 | 631307 | 4771338 | 180 | 970  | T79 | V_1724 | 37.5 | 623166 | 4760181 | 183 | 756  | T95 |
| O_1756 | 35.5 | 623361 | 4762971 | 180 | 986  | T36 |  | O_3301 | 34.5 | 631307 | 4771384 | 180 | 957  | T79 | V_1728 | 36.4 | 623172 | 4761561 | 180 | 794  | T95 |
| O_1757 | 34.3 | 623372 | 4762394 | 180 | 1198 | T36 |  | O_3302 | 34.4 | 631307 | 4771338 | 180 | 970  | T79 | V_1736 | 36.3 | 623245 | 4763115 | 181 | 868  | T36 |
| O_1758 | 37.5 | 623376 | 4769240 | 190 | 872  | T28 |  | O_3303 | 34.2 | 631307 | 4771273 | 181 | 992  | T79 | V_1737 | 32.7 | 623247 | 4770258 | 190 | 1373 | T28 |
| O_176  | 36.2 | 615569 | 4766207 | 189 | 1085 | T81 |  | O_3304 | 34.1 | 631313 | 4771279 | 181 | 995  | T79 | V_1739 | 33.1 | 623259 | 4770177 | 189 | 1312 | T28 |
| O_1760 | 34.7 | 623394 | 4761711 | 180 | 1036 | T95 |  | O_3305 | 34.0 | 631316 | 4771241 | 182 | 1013 | T79 | V_1740 | 36.3 | 623260 | 4763182 | 181 | 889  | T36 |
| O_1761 | 34.5 | 623394 | 4762532 | 180 | 1146 | T36 |  | O_3306 | 33.8 | 631317 | 4771189 | 184 | 1035 | T79 | V_1745 | 35.3 | 623317 | 4751215 | 181 | 1444 | T62 |
| O_1764 | 34.4 | 623420 | 4762550 | 180 | 1161 | T36 |  | O_3307 | 34.5 | 631318 | 4771393 | 180 | 965  | T79 | V_1747 | 35.8 | 623329 | 4763033 | 180 | 951  | T36 |
| O_1766 | 34.9 | 623423 | 4755827 | 181 | 1229 | T65 |  | O_3308 | 34.1 | 631318 | 4771288 | 180 | 997  | T79 | V_1749 | 34.4 | 623333 | 4762292 | 180 | 1227 | T36 |
| O_1767 | 34.1 | 623424 | 4762357 | 180 | 1262 | T36 |  | O_3309 | 34.3 | 631318 | 4771347 | 180 | 978  | T79 | O_1750 | 39.7 | 623337 | 4766590 | 190 | 697  | T06 |
| O_1768 | 34.2 | 623424 | 4762417 | 180 | 1229 | T36 |  | O_331  | 31.7 | 616942 | 4752377 | 180 | 1235 | T98 | V_1752 | 38.4 | 623344 | 4763761 | 184 | 686  | T55 |
| O_1769 | 37.3 | 623442 | 4750271 | 180 | 1250 | T16 |  | O_3310 | 34.3 | 631318 | 4771345 | 180 | 979  | T79 | V_1753 | 34.4 | 623349 | 4757624 | 180 | 1295 | T37 |
| O_1770 | 39.7 | 623450 | 4766472 | 190 | 776  | T76 |  | O_3311 | 34.2 | 631320 | 4771304 | 180 | 993  | T79 | V_1755 | 35.2 | 623360 | 4761626 | 180 | 946  | T95 |
| O_1772 | 34.2 | 623451 | 4762445 | 180 | 1238 | T36 |  | O_3312 | 34.3 | 631322 | 4767144 | 185 | 1175 | T60 | V_1759 | 39.4 | 623378 | 4747182 | 185 | 1484 | T45 |
| O_1774 | 34.3 | 623464 | 4762529 | 180 | 1210 | T36 |  | O_3313 | 34.3 | 631324 | 4771363 | 180 | 979  | T79 | V_1762 | 37.9 | 623417 | 4768353 | 193 | 952  | T27 |
| O_1775 | 34.2 | 623472 | 4762494 | 180 | 1233 | T36 |  | O_3315 | 34.2 | 631325 | 4771316 | 180 | 994  | T79 | V_1763 | 35.3 | 623418 | 4762970 | 180 | 1044 | T36 |
| O_1776 | 34.1 | 623477 | 4762429 | 180 | 1268 | T36 |  | O_332  | 31.1 | 616948 | 4752188 | 180 | 1341 | T98 | V_177  | 36.1 | 615576 | 4766159 | 189 | 1114 | T81 |
| O_1777 | 38.3 | 623480 | 4750042 | 180 | 1044 | T16 |  | O_3320 | 34.3 | 631328 | 4771361 | 180 | 984  | T79 | V_1771 | 39.5 | 623450 | 4766553 | 190 | 777  | T06 |
| O_178  | 30.7 | 615577 | 4772469 | 180 | 1430 | T88 |  | O_3321 | 33.9 | 631329 | 4771247 | 181 | 1023 | T79 | V_1773 | 35.1 | 623454 | 4762934 | 180 | 1083 | T36 |
| O_1780 | 34.1 | 623494 | 4762448 | 180 | 1274 | T36 |  | O_3323 | 34.4 | 631331 | 4771404 | 180 | 975  | T79 | V_1778 | 34.9 | 623489 | 4762879 | 180 | 1125 | T36 |
| O_1781 | 34.7 | 623496 | 4755818 | 180 | 1249 | T65 |  | O_3325 | 34.3 | 631332 | 4771368 | 180 | 986  | T79 | V_1779 | 32.6 | 623489 | 4770192 | 190 | 1466 | T28 |
| O_1782 | 39.4 | 623497 | 4766581 | 180 | 776  | T06 |  | O_3327 | 34.2 | 631334 | 4771367 | 180 | 987  | T79 | V_1785 | 37.8 | 623506 | 4750154 | 180 | 1117 | T16 |
| O_1783 | 37.1 | 623498 | 4755362 | 180 | 855  | T65 |  | O_3328 | 34.1 | 631334 | 4771332 | 180 | 997  | T79 | V_1791 | 35.6 | 623527 | 4763179 | 181 | 1155 | T36 |
| O_1784 | 34.0 | 623500 | 4762400 | 180 | 1303 | T36 |  | O_3329 | 34.4 | 631336 | 4771422 | 180 | 976  | T79 | V_1799 | 38.9 | 623552 | 4749960 | 180 | 936  | T16 |
| O_1788 | 34.0 | 623518 | 4757617 | 180 | 1352 | T37 |  | O_333  | 34.4 | 616953 | 4761501 | 180 | 1087 | T09 | V_1840 | 37.5 | 623700 | 4768015 | 191 | 979  | T06 |
| O_1789 | 34.0 | 623524 | 4762474 | 180 | 1288 | T36 |  | O_3330 | 33.6 | 631337 | 4771187 | 183 | 1054 | T79 | V_1845 | 33.6 | 623722 | 4757626 | 180 | 1429 | T37 |
| O_1790 | 33.9 | 623525 | 4762407 | 180 | 1321 | T36 |  | O_3331 | 34.6 | 631338 | 4771558 | 180 | 958  | T79 | V_1847 | 34.1 | 623739 | 4755564 | 180 | 1164 | T65 |
| O_1793 | 34.7 | 623533 | 4755770 | 180 | 1222 | T65 |  | O_3332 | 33.5 | 631342 | 4766557 | 190 | 1263 | T18 | V_1849 | 38.0 | 623769 | 4758446 | 180 | 745  | T10 |
| O_1794 | 35.0 | 623546 | 4755699 | 180 | 1165 | T65 |  | O_3333 | 34.2 | 631344 | 4771379 | 180 | 994  | T79 | V_1856 | 38.0 | 623812 | 4752888 | 185 | 655  | T89 |
| O_1795 | 34.0 | 623546 | 4757619 | 180 | 1360 | T37 |  | O_3334 | 34.5 | 631344 | 4771513 | 180 | 968  | T79 | V_1868 | 32.9 | 623837 | 4761892 | 180 | 1458 | T95 |
| O_1796 | 39.4 | 623548 | 4754486 | 180 | 596  | T65 |  | O_3335 | 34.1 | 631345 | 4771339 | 180 | 1006 | T79 | V_1876 | 37.7 | 623848 | 4758506 | 180 | 762  | T10 |
| O_1797 | 35.3 | 623551 | 4763122 | 180 | 1174 | T36 |  | O_3337 | 33.8 | 631346 | 4771255 | 180 | 1035 | T79 | V_1882 | 34.0 | 623858 | 4761052 | 180 | 1060 | T95 |
| O_1798 | 33.9 | 623551 | 4762474 | 180 | 1312 | T36 |  | O_3338 | 34.3 | 631348 | 4771431 | 180 | 986  | T79 | V_1895 | 37.3 | 623893 | 4767932 | 190 | 937  | T57 |
| O_18   | 31.8 | 612889 | 4766208 | 180 | 1365 | T52 |  | O_3339 | 34.2 | 631348 | 4771380 | 180 | 998  | T79 | V_1898 | 33.4 | 623897 | 4755576 | 180 | 1281 | T65 |
| O_180  | 33.6 | 615598 | 4763331 | 180 | 1411 | T09 |  | O_334  | 32.8 | 616962 | 4761288 | 180 | 1300 | T09 | V_1902 | 34.4 | 623905 | 4760164 | 180 | 1287 | T95 |
| O_1800 | 38.3 | 623553 | 4750071 | 180 | 1023 | T16 |  | O_3340 | 33.8 | 631349 | 4771266 | 180 | 1034 | T79 | V_1919 | 33.0 | 623943 | 4761474 | 180 | 1287 | T95 |
| O_1801 | 33.8 | 623554 | 4762412 | 180 | 1344 | T36 |  | O_3341 | 34.1 | 631354 | 4771384 | 180 | 1002 | T79 | V_192  | 35.2 | 615747 | 4769791 | 199 | 927  | T83 |
| O_1802 | 34.4 | 623578 | 4762756 | 180 | 1238 | T36 |  | O_3342 | 33.9 | 631354 | 4771295 | 180 | 1029 | T79 | V_1929 | 35.5 | 623964 | 4759698 | 180 | 999  | T10 |
| O_1803 | 33.8 | 623581 | 4762428 | 180 | 1359 | T36 |  | O_3343 | 33.5 | 631354 | 4771189 | 182 | 1068 | T79 | V_1933 | 33.3 | 623969 | 4761177 | 180 | 1198 | T95 |
| O_1804 | 35.8 | 623583 | 4763281 | 180 | 1113 | T55 |  | O_3344 | 33.8 | 631356 | 4771285 | 180 | 1034 | T79 | V_1935 | 33.0 | 623970 | 4755588 | 180 | 1341 | T65 |
| O_1805 | 35.6 | 623585 | 4763231 | 180 | 1163 | T55 |  | O_3345 | 34.3 | 631356 | 4767756 | 185 | 1082 | T60 | V_1937 | 33.3 | 623971 | 4755503 | 180 | 1285 | T65 |
| O_1806 | 33.9 | 623587 | 4762487 | 180 | 1339 | T36 |  | O_3346 | 34.0 | 631358 | 4771344 | 180 | 1017 | T79 | V_1942 | 33.9 | 623979 | 4755268 | 180 | 1156 | T65 |
| O_1807 | 39.1 | 623589 | 4766583 | 180 | 825  | T06 |  | O_3347 | 33.9 | 631358 | 4771307 | 180 | 1028 | T79 | V_1951 | 37.6 | 623996 | 4768037 | 190 | 792  | T57 |
| O_1808 | 35.4 | 623591 | 4763160 | 180 | 1216 | T36 |  | O_3348 | 32.8 | 631361 | 4766038 | 190 | 1253 | T18 | V_1957 | 34.3 | 624007 | 4760011 | 180 | 1266 | T10 |
| O_1809 | 34.2 |        |         |     |      |     |  |        |      |        |         |     |      |     |        |      |        |         |     |      |     |

|        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |        |      |        |         |     |      |     |
|--------|------|--------|---------|-----|------|-----|--|--------|------|--------|---------|-----|------|-----|--------|------|--------|---------|-----|------|-----|
| O_1828 | 33.7 | 623659 | 4762508 | 180 | 1395 | T36 |  | O_3366 | 33.7 | 631387 | 4771317 | 180 | 1053 | T79 | V_2180 | 40.0 | 624850 | 4765241 | 185 | 653  | T31 |
| O_1829 | 35.7 | 623664 | 4763274 | 180 | 1120 | T55 |  | O_3367 | 33.2 | 631390 | 4771193 | 181 | 1100 | T79 | V_2182 | 34.8 | 624853 | 4746530 | 185 | 1476 | T61 |
| O_183  | 35.5 | 615631 | 4767514 | 180 | 898  | T81 |  | O_3369 | 33.8 | 631394 | 4771402 | 180 | 1037 | T79 | V_2207 | 35.4 | 624925 | 4746685 | 185 | 1309 | T61 |
| O_1830 | 33.6 | 623666 | 4762468 | 180 | 1418 | T36 |  | O_3370 | 33.5 | 631400 | 4771313 | 180 | 1067 | T79 | V_2232 | 35.0 | 624981 | 4746600 | 185 | 1384 | T61 |
| O_1831 | 38.9 | 623668 | 4766583 | 180 | 864  | T76 |  | O_3371 | 33.5 | 631402 | 4771301 | 180 | 1072 | T79 | V_2240 | 34.8 | 624993 | 4746581 | 185 | 1402 | T61 |
| O_1832 | 34.7 | 623669 | 4762989 | 180 | 1292 | T36 |  | O_3373 | 33.1 | 631404 | 4771195 | 180 | 1112 | T79 | V_2252 | 32.3 | 625021 | 4769945 | 185 | 1380 | T57 |
| O_1833 | 33.7 | 623669 | 4762522 | 180 | 1400 | T36 |  | O_3374 | 33.3 | 631409 | 4771259 | 180 | 1093 | T79 | V_2259 | 34.8 | 625044 | 4746581 | 185 | 1396 | T61 |
| O_1834 | 39.2 | 623675 | 4766480 | 180 | 762  | T76 |  | O_3375 | 33.3 | 631410 | 4771269 | 180 | 1090 | T79 | V_2262 | 34.7 | 625057 | 4746559 | 185 | 1416 | T61 |
| O_1835 | 37.4 | 623676 | 4754261 | 180 | 809  | T65 |  | O_3376 | 33.1 | 631411 | 4771195 | 180 | 1118 | T79 | V_2264 | 34.3 | 625063 | 4746485 | 180 | 1489 | T61 |
| O_1836 | 33.6 | 623680 | 4762473 | 180 | 1429 | T36 |  | O_3377 | 33.4 | 631411 | 4771285 | 180 | 1086 | T79 | V_2276 | 34.4 | 625119 | 4746522 | 180 | 1450 | T61 |
| O_1837 | 34.5 | 623685 | 4762938 | 180 | 1313 | T36 |  | O_3378 | 31.5 | 631412 | 4765515 | 190 | 1474 | T18 | V_2277 | 34.1 | 625139 | 4769530 | 190 | 1091 | T57 |
| O_1838 | 34.4 | 623686 | 4762870 | 180 | 1322 | T36 |  | O_338  | 39.3 | 616977 | 4764788 | 185 | 631  | T39 | V_2279 | 34.5 | 625153 | 4746547 | 180 | 1423 | T61 |
| O_1839 | 34.1 | 623697 | 4762779 | 180 | 1348 | T36 |  | O_3380 | 33.6 | 631419 | 4771377 | 180 | 1067 | T79 | V_2284 | 34.6 | 625203 | 4746576 | 180 | 1394 | T61 |
| O_184  | 36.1 | 615651 | 4766142 | 180 | 1076 | T81 |  | O_3381 | 33.5 | 631420 | 4771366 | 180 | 1071 | T79 | V_2287 | 34.6 | 625224 | 4746586 | 180 | 1385 | T61 |
| O_1841 | 34.0 | 623701 | 4762744 | 180 | 1360 | T36 |  | O_3382 | 33.7 | 631424 | 4771441 | 180 | 1058 | T79 | V_2288 | 37.1 | 625229 | 4747002 | 185 | 970  | T61 |
| O_1842 | 33.9 | 623708 | 4762692 | 180 | 1380 | T36 |  | O_3385 | 33.0 | 631427 | 4771200 | 180 | 1130 | T79 | V_2291 | 34.6 | 625244 | 4746595 | 181 | 1377 | T61 |
| O_1843 | 34.0 | 623713 | 4762714 | 180 | 1380 | T36 |  | O_3387 | 33.6 | 631427 | 4771426 | 180 | 1064 | T79 | V_2294 | 34.6 | 625253 | 4746601 | 181 | 1371 | T61 |
| O_1844 | 33.5 | 623713 | 4761702 | 180 | 1237 | T95 |  | O_3388 | 33.3 | 631432 | 4771333 | 180 | 1092 | T79 | V_2296 | 34.6 | 625264 | 4746606 | 181 | 1367 | T61 |
| O_185  | 36.3 | 615654 | 4766231 | 180 | 1008 | T81 |  | O_3389 | 33.5 | 631435 | 4771414 | 180 | 1074 | T79 | V_2305 | 34.7 | 625346 | 4746645 | 181 | 1335 | T61 |
| O_1850 | 39.6 | 623775 | 4758688 | 180 | 598  | T10 |  | O_339  | 39.4 | 617003 | 4763469 | 185 | 717  | T51 | V_2307 | 35.1 | 625372 | 4767998 | 190 | 1169 | T57 |
| O_1851 | 36.6 | 623786 | 4754069 | 180 | 1008 | T65 |  | O_3390 | 33.3 | 631435 | 4771320 | 180 | 1098 | T79 | V_2308 | 35.4 | 625381 | 4750522 | 180 | 1420 | T48 |
| O_1852 | 37.1 | 623797 | 4759586 | 180 | 803  | T10 |  | O_3391 | 33.5 | 631436 | 4771402 | 180 | 1077 | T79 | V_2317 | 35.8 | 625440 | 4746864 | 180 | 1137 | T61 |
| O_1853 | 38.4 | 623801 | 4752959 | 180 | 618  | T89 |  | O_3392 | 33.4 | 631439 | 4771391 | 180 | 1084 | T79 | V_2319 | 36.1 | 625448 | 4746909 | 180 | 1095 | T61 |
| O_1854 | 33.5 | 623807 | 4761492 | 180 | 1179 | T95 |  | O_3393 | 33.2 | 631439 | 4771304 | 180 | 1107 | T79 | V_2321 | 37.2 | 625457 | 4766589 | 190 | 827  | T31 |
| O_1857 | 39.8 | 623813 | 4759096 | 180 | 564  | T10 |  | O_3394 | 33.4 | 631441 | 4771375 | 180 | 1089 | T79 | V_2323 | 36.3 | 625477 | 4746957 | 180 | 1057 | T61 |
| O_1858 | 39.9 | 623815 | 4758978 | 180 | 556  | T10 |  | O_3395 | 32.9 | 631441 | 4771211 | 180 | 1140 | T79 | V_2328 | 35.8 | 625502 | 4763629 | 182 | 1063 | T32 |
| O_1859 | 33.3 | 623815 | 4757620 | 180 | 1478 | T10 |  | O_3396 | 33.0 | 631445 | 4771257 | 180 | 1127 | T79 | V_2329 | 36.5 | 625505 | 4747000 | 180 | 1024 | T61 |
| O_1860 | 38.0 | 623816 | 4759425 | 180 | 706  | T10 |  | O_3397 | 32.9 | 631445 | 4771227 | 180 | 1137 | T79 | V_2336 | 36.9 | 625564 | 4750098 | 180 | 1198 | T48 |
| O_1861 | 33.1 | 623817 | 4761799 | 180 | 1378 | T95 |  | O_3398 | 33.1 | 631446 | 4771291 | 180 | 1117 | T79 | V_2339 | 39.0 | 625581 | 4765192 | 190 | 762  | T31 |
| O_1863 | 39.5 | 623819 | 4759148 | 180 | 581  | T10 |  | O_3399 | 33.0 | 631446 | 4771241 | 180 | 1134 | T79 | V_2340 | 38.1 | 625588 | 4749828 | 180 | 1053 | T48 |
| O_1867 | 33.5 | 623836 | 4761422 | 180 | 1168 | T95 |  | O_34   | 31.3 | 613403 | 4767688 | 195 | 1414 | T52 | V_2342 | 36.6 | 625601 | 4766665 | 190 | 957  | T31 |
| O_1869 | 33.1 | 623839 | 4761688 | 180 | 1321 | T95 |  | O_340  | 34.3 | 617008 | 4761498 | 180 | 1100 | T09 | V_2345 | 36.8 | 625627 | 4747097 | 180 | 982  | T61 |
| O_187  | 35.8 | 615687 | 4769862 | 180 | 864  | T83 |  | O_3401 | 33.2 | 631449 | 4771333 | 180 | 1108 | T79 | V_2347 | 36.8 | 625644 | 4747112 | 180 | 977  | T61 |
| O_1870 | 33.3 | 623840 | 4761565 | 180 | 1248 | T95 |  | O_3402 | 33.2 | 631451 | 4771347 | 180 | 1106 | T79 | V_2348 | 38.6 | 625657 | 4749645 | 180 | 1036 | T48 |
| O_1871 | 33.2 | 623840 | 4761650 | 180 | 1299 | T95 |  | O_3403 | 33.2 | 631455 | 4766912 | 189 | 1407 | T60 | V_2361 | 39.9 | 625768 | 4749138 | 180 | 971  | T43 |
| O_1873 | 38.2 | 623845 | 4759350 | 180 | 687  | T10 |  | O_3404 | 33.1 | 631455 | 4771322 | 180 | 1117 | T79 | V_2363 | 38.9 | 625774 | 4747519 | 185 | 749  | T61 |
| O_1874 | 33.2 | 623845 | 4761610 | 180 | 1278 | T95 |  | O_3405 | 33.0 | 631460 | 4771305 | 180 | 1126 | T79 | V_2364 | 39.2 | 625776 | 4764704 | 185 | 719  | T34 |
| O_1875 | 38.8 | 623846 | 4758712 | 180 | 649  | T10 |  | O_3407 | 32.9 | 631464 | 4771272 | 180 | 1140 | T79 | V_2371 | 39.4 | 625796 | 4747633 | 185 | 705  | T61 |
| O_1878 | 36.8 | 623851 | 4758357 | 180 | 866  | T10 |  | O_3409 | 32.8 | 631469 | 4771241 | 180 | 1156 | T79 | V_2372 | 38.6 | 625797 | 4749519 | 180 | 1134 | T43 |
| O_188  | 36.1 | 615695 | 4766140 | 180 | 1051 | T81 |  | O_341  | 39.3 | 617011 | 4764858 | 185 | 670  | T39 | V_2380 | 38.2 | 625830 | 4764146 | 184 | 792  | T34 |
| O_1880 | 33.6 | 623854 | 4761324 | 180 | 1140 | T95 |  | O_3410 | 32.8 | 631471 | 4771255 | 180 | 1152 | T79 | V_2391 | 37.0 | 625852 | 4747279 | 181 | 966  | T61 |
| O_1881 | 39.2 | 623856 | 4758870 | 180 | 609  | T10 |  | O_3411 | 33.2 | 631472 | 4771413 | 180 | 1111 | T79 | V_2395 | 37.0 | 625863 | 4747290 | 181 | 966  | T61 |
| O_1883 | 35.7 | 623863 | 4758191 | 180 | 1001 | T10 |  | O_3412 | 33.1 | 631472 | 4771386 | 180 | 1117 | T79 | V_2397 | 37.7 | 625864 | 4747417 | 185 | 882  | T61 |
| O_1884 | 38.9 | 623866 | 4758798 | 180 | 636  | T10 |  | O_3413 | 33.2 | 631473 | 4771438 | 180 | 1107 | T79 | V_2399 | 37.0 | 625873 | 4768936 | 190 | 735  | T56 |
| O_1885 | 36.2 | 623868 | 4753941 | 180 | 1017 | T89 |  | O_3414 | 33.2 | 631473 | 4771400 | 180 | 1114 | T79 | V_2404 | 39.6 | 625886 | 4749083 | 180 | 965  | T49 |
| O_1889 | 33.3 | 623877 | 4757697 | 180 | 1433 | T10 |  | O_3415 | 32.8 | 631473 | 4771232 | 180 | 1162 | T79 | V_2410 | 37.0 | 625901 | 4747325 | 180 | 969  | T61 |
| O_189  | 36.6 | 615733 | 4766292 | 180 | 910  | T81 |  | O_3416 | 32.6 | 631476 | 4771201 | 180 | 1176 | T79 | V_2411 | 39.7 | 625905 | 4748999 | 180 | 934  | T49 |
| O_1896 | 34.2 | 623893 | 4760488 | 180 | 1136 | T95 |  | O_3418 | 33.1 | 631476 | 4771372 | 180 | 1124 | T79 | V_2414 | 37.0 | 625913 | 4747339 | 180 | 969  | T61 |
| O_1897 | 32.8 | 623894 | 4761891 | 180 | 1497 | T95 |  | O_3419 | 32.7 | 631477 | 4771218 | 180 | 1171 | T79 | V_2422 | 34.4 | 625939 | 4769572 | 188 | 997  | T56 |
| O_190  | 33.7 | 615737 | 4772095 | 180 | 1039 | T88 |  | O_342  | 33.1 | 617013 | 4753575 | 180 | 1106 | T98 | V_2427 | 37.2 | 625953 | 4747404 | 184 | 960  | T61 |
| O_1901 | 33.9 | 623905 | 4755396 | 180 | 1167 | T65 |  | O_3420 | 32.6 | 631478 | 4771189 | 180 | 1182 | T79 | V_2428 | 37.0 | 625954 | 4747376 | 180 | 978  | T61 |
| O_1903 | 34.1 | 623905 | 4755325 | 180 | 1125 | T65 |  | O_3421 | 33.0 | 631479 | 4771351 | 180 | 1132 | T79 | V_2429 | 37.2 | 625967 | 4747415 | 183 | 965  | T61 |
| O_1906 | 35.0 | 623911 | 4759913 | 180 | 1130 | T10 |  | O_3422 | 33.0 | 631481 | 4771364 | 180 | 1130 | T79 | V_2430 | 37.0 | 625968 | 4747385 | 180 | 984  | T61 |
| O_1908 | 37.3 | 623911 | 4753005 | 180 | 712  | T89 |  | O_3423 | 33.0 | 631483 | 4771341 | 180 | 1138 | T79 | V_2433 | 37.0 | 625982 | 4747394 | 180 | 990  | T61 |
| O_1911 | 32.8 | 623922 | 4761722 | 180 | 1407 | T95 |  | O_3424 | 32.9 | 631483 | 4771325 | 180 | 1142 | T79 | V_2435 | 36.7 | 625984 | 4766616 | 190 | 1153 | T31 |
| O_1914 | 32.7 | 623932 | 4761784 | 180 | 1454 | T95 |  | O_3425 | 33.2 | 631484 | 4771441 | 180 | 1117 | T79 | V_2437 | 39.8 | 625994 | 4748823 | 180 | 847  | T49 |
| O_1921 | 33.6 | 623945 | 4760981 | 180 | 1135 | T95 |  | O_3426 | 33.1 | 631485 | 4771417 | 180 | 1123 | T79 | V_2438 | 37.0 | 625997 | 4747405 | 180 | 996  | T61 |
| O_1925 | 35.6 | 623956 | 4754005 | 180 | 1123 | T89 |  | O_3427 | 33.1 | 631486 | 4771393 | 180 | 1128 | T79 | V_2442 | 36.9 | 626015 | 4747412 | 180 | 1007 | T61 |
| O_1926 | 33.2 | 623963 | 4761287 | 180 | 1227 | T95 |  | O_3428 | 32.9 | 631487 | 4771314 | 180 | 1149 | T79 | V_2444 | 36.9 | 626027 | 4747420 | 180 | 1012 | T61 |
| O_1927 | 38.0 | 623963 | 4766585 | 180 | 924  | T76 |  | O_3429 | 33.0 | 631487 | 4771380 | 180 | 1133 | T79 | V_2447 | 36.8 | 626047 | 4747434 | 180 | 1022 | T61 |

|        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |        |      |        |         |     |      |     |
|--------|------|--------|---------|-----|------|-----|--|--------|------|--------|---------|-----|------|-----|--------|------|--------|---------|-----|------|-----|
| O_1972 | 33.5 | 624038 | 4755512 | 180 | 1344 | T65 |  | O_3447 | 32.8 | 631518 | 4771369 | 180 | 1165 | T79 | V_2561 | 38.4 | 626760 | 4766764 | 190 | 840  | T33 |
| O_1973 | 35.3 | 624042 | 4759641 | 180 | 1018 | T10 |  | O_3448 | 32.7 | 631519 | 4771355 | 180 | 1169 | T79 | V_2563 | 37.0 | 626766 | 4769489 | 190 | 685  | T56 |
| O_1976 | 35.0 | 624046 | 4754179 | 180 | 1174 | T65 |  | O_3450 | 32.4 | 631526 | 4771243 | 180 | 1208 | T79 | V_2565 | 38.6 | 626859 | 4766770 | 190 | 827  | T33 |
| O_198  | 35.9 | 615832 | 4767617 | 180 | 827  | T81 |  | O_3451 | 32.6 | 631526 | 4771341 | 180 | 1180 | T79 | V_2577 | 39.6 | 626931 | 4748310 | 180 | 613  | T49 |
| O_1985 | 37.9 | 624069 | 4766517 | 180 | 906  | T76 |  | O_3452 | 32.3 | 631526 | 4771204 | 180 | 1222 | T79 | V_2581 | 33.2 | 626957 | 4751172 | 180 | 1227 | T24 |
| O_1988 | 35.0 | 624090 | 4759646 | 180 | 1058 | T10 |  | O_3453 | 32.7 | 631528 | 4771381 | 180 | 1172 | T79 | V_2592 | 39.1 | 627021 | 4749700 | 180 | 806  | T49 |
| O_199  | 36.1 | 615881 | 4767623 | 180 | 802  | T81 |  | O_3454 | 32.3 | 631528 | 4771221 | 180 | 1218 | T79 | V_2597 | 38.3 | 627046 | 4769223 | 190 | 598  | T56 |
| O_1990 | 37.2 | 624096 | 4767928 | 180 | 839  | T57 |  | O_3455 | 32.7 | 631529 | 4771406 | 180 | 1168 | T79 | V_2625 | 33.1 | 627266 | 4751300 | 180 | 1167 | T24 |
| O_1998 | 32.6 | 624133 | 4761161 | 180 | 1352 | T95 |  | O_3456 | 32.7 | 631531 | 4771370 | 180 | 1178 | T79 | V_2630 | 34.5 | 627294 | 4762944 | 180 | 1214 | T29 |
| O_1999 | 32.2 | 624142 | 4755631 | 180 | 1499 | T65 |  | O_3458 | 32.6 | 631550 | 4771399 | 180 | 1190 | T79 | V_2635 | 40.0 | 627347 | 4749801 | 180 | 597  | T24 |
| O_200  | 32.7 | 615901 | 4769370 | 180 | 1347 | T83 |  | O_3459 | 32.5 | 631554 | 4771378 | 180 | 1198 | T79 | V_2642 | 35.6 | 627383 | 4769262 | 190 | 897  | T56 |
| O_2001 | 35.4 | 624148 | 4759377 | 180 | 969  | T10 |  | O_346  | 32.2 | 617022 | 4754066 | 180 | 1403 | T98 | V_2648 | 34.8 | 627420 | 4751093 | 180 | 917  | T24 |
| O_2006 | 33.0 | 624162 | 4755501 | 180 | 1437 | T65 |  | O_3460 | 32.5 | 631554 | 4771364 | 180 | 1202 | T79 | V_2654 | 37.3 | 627452 | 4763625 | 182 | 906  | T35 |
| O_2007 | 33.1 | 624167 | 4755445 | 180 | 1409 | T65 |  | O_3461 | 32.3 | 631555 | 4771281 | 180 | 1224 | T79 | V_2655 | 38.9 | 627457 | 4748315 | 180 | 664  | T23 |
| O_2008 | 33.0 | 624169 | 4755471 | 180 | 1425 | T65 |  | O_3462 | 32.2 | 631559 | 4771264 | 180 | 1233 | T79 | V_2661 | 34.5 | 627512 | 4769358 | 190 | 1057 | T56 |
| O_2009 | 37.4 | 624169 | 4766612 | 180 | 1038 | T76 |  | O_3463 | 32.3 | 631562 | 4771291 | 180 | 1228 | T79 | V_2669 | 33.9 | 627564 | 4769455 | 190 | 1152 | T56 |
| O_201  | 36.0 | 615902 | 4769876 | 180 | 842  | T83 |  | O_3464 | 32.1 | 631565 | 4771243 | 180 | 1245 | T79 | V_2678 | 31.4 | 627611 | 4751640 | 180 | 1409 | T24 |
| O_2010 | 33.1 | 624170 | 4755419 | 180 | 1398 | T65 |  | O_3465 | 32.1 | 631565 | 4771233 | 180 | 1249 | T79 | V_2684 | 37.5 | 627659 | 4763662 | 183 | 959  | T35 |
| O_2011 | 33.1 | 624171 | 4755431 | 180 | 1405 | T65 |  | O_3466 | 32.5 | 631568 | 4771443 | 180 | 1200 | T79 | V_2685 | 38.9 | 627663 | 4766786 | 190 | 890  | T02 |
| O_2012 | 33.2 | 624172 | 4755397 | 180 | 1388 | T65 |  | O_3467 | 32.2 | 631568 | 4771305 | 180 | 1230 | T79 | V_2705 | 39.7 | 627870 | 4768233 | 190 | 603  | T04 |
| O_2013 | 33.2 | 624172 | 4755382 | 180 | 1381 | T65 |  | O_3468 | 32.0 | 631568 | 4771218 | 180 | 1256 | T79 | V_2714 | 38.5 | 627919 | 4766710 | 190 | 938  | T02 |
| O_2014 | 33.3 | 624173 | 4755351 | 180 | 1366 | T65 |  | O_3469 | 32.0 | 631570 | 4771206 | 180 | 1261 | T79 | V_2719 | 40.0 | 627958 | 4749727 | 180 | 552  | T24 |
| O_2015 | 33.3 | 624174 | 4755366 | 180 | 1374 | T65 |  | O_347  | 38.9 | 617025 | 4766263 | 189 | 650  | T97 | V_2732 | 37.1 | 628019 | 4748409 | 183 | 741  | T23 |
| O_2016 | 33.3 | 624175 | 4755337 | 180 | 1361 | T65 |  | O_3470 | 32.2 | 631571 | 4771314 | 180 | 1230 | T79 | V_2736 | 38.7 | 628044 | 4762768 | 181 | 562  | T29 |
| O_2017 | 33.3 | 624176 | 4755324 | 180 | 1355 | T65 |  | O_3471 | 32.4 | 631573 | 4771387 | 180 | 1215 | T79 | V_2738 | 39.2 | 628067 | 4765420 | 190 | 819  | T78 |
| O_2019 | 33.4 | 624177 | 4755311 | 180 | 1350 | T65 |  | O_3472 | 32.2 | 631576 | 4771327 | 180 | 1232 | T79 | V_2747 | 31.2 | 628154 | 4761763 | 172 | 1381 | T29 |
| O_2020 | 38.5 | 624178 | 4750209 | 180 | 966  | T16 |  | O_3473 | 32.3 | 631578 | 4771368 | 180 | 1224 | T79 | V_2754 | 39.2 | 628211 | 4768233 | 190 | 659  | T58 |
| O_2021 | 33.4 | 624179 | 4755296 | 180 | 1345 | T65 |  | O_3474 | 32.3 | 631579 | 4771343 | 180 | 1230 | T79 | V_2763 | 39.2 | 628252 | 4768237 | 190 | 647  | T58 |
| O_2022 | 33.4 | 624180 | 4755270 | 180 | 1334 | T65 |  | O_3475 | 32.4 | 631580 | 4771450 | 180 | 1210 | T79 | V_277  | 33.1 | 616538 | 4771946 | 193 | 1144 | T88 |
| O_2023 | 33.4 | 624180 | 4755284 | 180 | 1341 | T65 |  | O_3476 | 32.3 | 631580 | 4771355 | 180 | 1229 | T79 | V_2777 | 38.5 | 628295 | 4764039 | 185 | 797  | T78 |
| O_2024 | 32.8 | 624182 | 4755527 | 180 | 1468 | T65 |  | O_3477 | 32.1 | 631582 | 4771279 | 180 | 1250 | T79 | V_2778 | 37.5 | 628297 | 4749736 | 180 | 741  | T24 |
| O_2025 | 32.9 | 624184 | 4755485 | 180 | 1446 | T65 |  | O_3478 | 32.1 | 631584 | 4771269 | 180 | 1256 | T79 | V_2779 | 39.2 | 628297 | 4768243 | 190 | 639  | T58 |
| O_2026 | 39.8 | 624186 | 4765193 | 180 | 759  | T76 |  | O_3479 | 32.0 | 631587 | 4771252 | 180 | 1263 | T79 | V_2790 | 38.5 | 628332 | 4763843 | 185 | 761  | T29 |
| O_2029 | 34.4 | 624192 | 4759647 | 180 | 1141 | T10 |  | O_348  | 31.4 | 617029 | 4752154 | 180 | 1303 | T98 | V_2792 | 33.7 | 628333 | 4769115 | 186 | 1492 | T58 |
| O_203  | 32.4 | 615928 | 4768391 | 180 | 1484 | T81 |  | O_3480 | 32.1 | 631591 | 4771290 | 180 | 1256 | T79 | V_2793 | 33.9 | 628333 | 4769078 | 186 | 1455 | T58 |
| O_2031 | 32.8 | 624197 | 4755529 | 180 | 1481 | T65 |  | O_3481 | 31.9 | 631591 | 4771241 | 180 | 1271 | T79 | V_2795 | 34.0 | 628335 | 4769042 | 187 | 1419 | T58 |
| O_2032 | 32.9 | 624198 | 4755486 | 180 | 1458 | T65 |  | O_3482 | 31.9 | 631591 | 4771227 | 180 | 1275 | T79 | V_2796 | 34.4 | 628337 | 4768962 | 188 | 1340 | T58 |
| O_2034 | 32.7 | 624208 | 4755530 | 180 | 1491 | T65 |  | O_3483 | 32.3 | 631592 | 4771457 | 180 | 1221 | T79 | V_2797 | 34.2 | 628338 | 4769002 | 188 | 1380 | T58 |
| O_2035 | 32.8 | 624210 | 4755486 | 180 | 1468 | T65 |  | O_3484 | 31.9 | 631593 | 4771215 | 180 | 1280 | T79 | V_2798 | 35.1 | 628339 | 4768802 | 190 | 1181 | T58 |
| O_2038 | 32.8 | 624221 | 4755452 | 180 | 1459 | T65 |  | O_3485 | 32.0 | 631594 | 4771279 | 180 | 1262 | T79 | V_2799 | 31.5 | 628340 | 4761775 | 172 | 1335 | T29 |
| O_2041 | 32.9 | 624222 | 4755439 | 180 | 1453 | T65 |  | O_3486 | 31.8 | 631597 | 4771201 | 180 | 1288 | T79 | V_2800 | 34.6 | 628341 | 4768908 | 189 | 1286 | T58 |
| O_2042 | 32.7 | 624223 | 4755485 | 180 | 1479 | T65 |  | O_3487 | 32.0 | 631598 | 4771267 | 180 | 1269 | T79 | V_2801 | 34.9 | 628341 | 4768857 | 190 | 1235 | T58 |
| O_2043 | 32.9 | 624223 | 4755421 | 180 | 1445 | T65 |  | O_3488 | 32.2 | 631602 | 4771381 | 180 | 1244 | T79 | V_2802 | 32.7 | 628341 | 4751223 | 180 | 1147 | T24 |
| O_2044 | 32.9 | 624225 | 4755394 | 180 | 1433 | T65 |  | O_3489 | 31.9 | 631602 | 4771250 | 180 | 1278 | T79 | V_2803 | 35.4 | 628342 | 4768748 | 190 | 1127 | T58 |
| O_2045 | 32.9 | 624226 | 4755406 | 180 | 1439 | T65 |  | O_349  | 33.2 | 617030 | 4753552 | 180 | 1079 | T98 | V_2805 | 35.7 | 628345 | 4768698 | 190 | 1077 | T58 |
| O_2046 | 33.0 | 624233 | 4755347 | 180 | 1417 | T65 |  | O_3490 | 32.3 | 631604 | 4771463 | 180 | 1233 | T79 | V_2807 | 36.3 | 628349 | 4768607 | 190 | 985  | T58 |
| O_2048 | 33.1 | 624237 | 4755304 | 180 | 1401 | T65 |  | O_3491 | 31.8 | 631605 | 4771238 | 180 | 1285 | T79 | V_2808 | 36.0 | 628350 | 4768645 | 190 | 1023 | T58 |
| O_2054 | 37.5 | 624254 | 4766534 | 180 | 1020 | T76 |  | O_3492 | 31.8 | 631605 | 4771226 | 180 | 1289 | T79 | V_2809 | 36.7 | 628353 | 4768532 | 190 | 911  | T58 |
| O_2058 | 37.0 | 624283 | 4766667 | 180 | 1145 | T76 |  | O_3493 | 31.8 | 631605 | 4771208 | 180 | 1295 | T79 | V_2811 | 37.0 | 628355 | 4768495 | 190 | 874  | T58 |
| O_206  | 35.4 | 615953 | 4771915 | 180 | 867  | T88 |  | O_3494 | 32.1 | 631608 | 4771349 | 180 | 1257 | T79 | V_2812 | 37.3 | 628355 | 4768454 | 190 | 834  | T58 |
| O_2064 | 34.2 | 624304 | 4753522 | 180 | 1146 | T89 |  | O_3495 | 32.2 | 631610 | 4771424 | 180 | 1245 | T79 | V_2813 | 36.5 | 628356 | 4768571 | 190 | 949  | T58 |
| O_2066 | 38.3 | 624315 | 4763811 | 180 | 759  | T32 |  | O_3496 | 31.9 | 631615 | 4771309 | 180 | 1274 | T79 | V_2814 | 37.6 | 628358 | 4768416 | 190 | 795  | T58 |
| O_2069 | 38.3 | 624325 | 4750251 | 180 | 1023 | T16 |  | O_3497 | 31.9 | 631616 | 4771275 | 180 | 1284 | T79 | V_2815 | 35.9 | 628358 | 4750714 | 180 | 770  | T24 |
| O_2072 | 33.5 | 624333 | 4759657 | 180 | 1264 | T10 |  | O_3498 | 32.2 | 631617 | 4771465 | 180 | 1245 | T79 | V_2816 | 37.9 | 628360 | 4768382 | 190 | 761  | T58 |
| O_2079 | 39.5 | 624366 | 4765150 | 180 | 848  | T32 |  | O_3499 | 32.1 | 631617 | 4771388 | 180 | 1258 | T79 | V_2817 | 39.2 | 628361 | 4768243 | 190 | 624  | T58 |
| O_2087 | 36.9 | 624435 | 4766639 | 180 | 1087 | T31 |  | O_3500 | 31.8 | 631619 | 4771263 | 180 | 1290 | T79 | V_2818 | 38.5 | 628363 | 4768305 | 190 | 685  | T58 |
| O_209  | 38.4 | 615975 | 4770108 | 180 | 626  | T83 |  | O_3501 | 31.8 | 631622 | 4771251 | 180 | 1297 | T79 | V_2819 | 38.2 | 628364 | 4768346 | 190 | 725  | T58 |
| O_2092 | 37.8 | 624467 | 4763720 | 180 | 758  | T32 |  | O_3502 | 31.7 | 631623 | 4771238 | 180 | 1302 | T79 | V_2820 | 36.4 | 628376 | 4749501 | 180 | 966  | T24 |
| O_2095 | 32.6 | 624491 | 4759736 | 180 | 1439 | T10 |  | O_3503 | 32.1 | 631625 | 4771432 | 180 | 1258 | T79 | V_2825 | 32.8 | 628407 | 4748020 | 183 | 1289 | T23 |
| O_2096 | 37.6 | 624491 | 4750356 | 180 | 1091 | T48 |  | O_3504 | 31.9 | 631626 | 4771356 | 180 | 1273 | T79 | V_283  | 30.3 | 616635 | 4752407 | 180 | 1489 |     |

|        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |        |      |        |         |     |      |     |
|--------|------|--------|---------|-----|------|-----|--|--------|------|--------|---------|-----|------|-----|--------|------|--------|---------|-----|------|-----|
| O_2172 | 37.8 | 624824 | 4769191 | 180 | 629  | T57 |  | O_3522 | 31.9 | 631646 | 4771450 | 180 | 1276 | T79 | V_3045 | 32.1 | 629355 | 4762034 | 183 | 1368 | T29 |
| O_218  | 34.9 | 616037 | 4763774 | 180 | 1406 | T39 |  | O_3523 | 31.7 | 631648 | 4771296 | 180 | 1309 | T79 | V_3052 | 32.4 | 629377 | 4770692 | 189 | 1381 | T79 |
| O_2183 | 35.3 | 624856 | 4769473 | 180 | 883  | T57 |  | O_3524 | 31.6 | 631649 | 4771281 | 180 | 1314 | T79 | V_3054 | 39.3 | 629378 | 4763305 | 185 | 586  | T03 |
| O_2187 | 37.1 | 624867 | 4766633 | 180 | 860  | T31 |  | O_3525 | 31.7 | 631652 | 4771327 | 180 | 1305 | T79 | V_3059 | 37.9 | 629385 | 4766314 | 189 | 742  | T18 |
| O_2191 | 34.6 | 624879 | 4746506 | 180 | 1494 | T61 |  | O_3526 | 31.9 | 631652 | 4771492 | 180 | 1276 | T79 | V_3070 | 36.9 | 629398 | 4762870 | 185 | 871  | T03 |
| O_22   | 30.8 | 613074 | 4764761 | 180 | 1478 | T08 |  | O_3527 | 31.8 | 631653 | 4771410 | 180 | 1289 | T79 | V_3089 | 38.7 | 629420 | 4764026 | 185 | 644  | T03 |
| O_220  | 34.6 | 616062 | 4761880 | 180 | 1007 | T09 |  | O_3528 | 31.6 | 631655 | 4771268 | 180 | 1324 | T79 | V_3096 | 38.2 | 629471 | 4764140 | 185 | 694  | T03 |
| O_2204 | 33.4 | 624917 | 4762966 | 180 | 1451 | T32 |  | O_3529 | 31.8 | 631656 | 4771371 | 180 | 1300 | T79 | V_3104 | 33.6 | 629510 | 4762372 | 182 | 1246 | T29 |
| O_221  | 35.0 | 616072 | 4769782 | 180 | 967  | T83 |  | O_3530 | 31.5 | 631657 | 4771255 | 180 | 1329 | T79 | V_3121 | 38.5 | 629605 | 4764154 | 185 | 635  | T03 |
| O_2211 | 36.8 | 624929 | 4766687 | 180 | 894  | T31 |  | O_3531 | 31.9 | 631658 | 4771457 | 180 | 1287 | T79 | V_3129 | 39.4 | 629661 | 4766963 | 189 | 774  | T59 |
| O_2212 | 35.7 | 624935 | 4746736 | 180 | 1258 | T61 |  | O_3532 | 31.9 | 631661 | 4771505 | 180 | 1283 | T79 | V_3131 | 33.3 | 629672 | 4762372 | 181 | 1235 | T03 |
| O_2224 | 37.7 | 624961 | 4766559 | 180 | 762  | T31 |  | O_3533 | 31.7 | 631661 | 4771335 | 180 | 1312 | T79 | V_3137 | 38.8 | 629776 | 4764164 | 185 | 588  | T03 |
| O_2226 | 35.4 | 624970 | 4746685 | 180 | 1301 | T61 |  | O_3534 | 31.5 | 631661 | 4771242 | 180 | 1337 | T79 | V_3148 | 36.8 | 630019 | 4764335 | 185 | 759  | T03 |
| O_2231 | 35.1 | 624979 | 4746622 | 180 | 1363 | T61 |  | O_3535 | 31.4 | 631663 | 4771228 | 180 | 1343 | T79 | V_3152 | 34.2 | 630041 | 4770645 | 185 | 1049 | T79 |
| O_2234 | 35.7 | 624982 | 4746745 | 180 | 1240 | T61 |  | O_3536 | 31.8 | 631664 | 4771417 | 180 | 1299 | T79 | V_3165 | 34.5 | 630225 | 4770651 | 185 | 998  | T79 |
| O_2236 | 34.7 | 624983 | 4746538 | 180 | 1445 | T61 |  | O_3537 | 31.6 | 631664 | 4771295 | 180 | 1325 | T79 | V_3170 | 36.8 | 630304 | 4765510 | 190 | 741  | T18 |
| O_2237 | 37.1 | 624987 | 4766643 | 180 | 838  | T31 |  | O_3538 | 31.9 | 631665 | 4771515 | 180 | 1287 | T79 | V_3177 | 34.8 | 630393 | 4764440 | 188 | 989  | T03 |
| O_2239 | 35.2 | 624991 | 4746660 | 180 | 1323 | T61 |  | O_3539 | 31.4 | 631665 | 4771215 | 180 | 1349 | T79 | V_3185 | 36.9 | 630471 | 4772665 | 176 | 739  | T80 |
| O_224  | 34.8 | 616142 | 4771934 | 180 | 934  | T88 |  | O_354  | 34.7 | 617052 | 4761555 | 180 | 1054 | T09 | V_3190 | 39.2 | 630505 | 4766725 | 190 | 627  | T18 |
| O_2243 | 35.2 | 624999 | 4746642 | 180 | 1340 | T61 |  | O_3540 | 31.8 | 631665 | 4771462 | 180 | 1293 | T79 | V_3199 | 36.1 | 630648 | 4772658 | 180 | 818  | T80 |
| O_2245 | 34.4 | 625005 | 4746494 | 180 | 1486 | T61 |  | O_3541 | 31.7 | 631667 | 4771377 | 180 | 1309 | T79 | V_3201 | 35.2 | 630692 | 4765529 | 190 | 902  | T18 |
| O_2247 | 37.2 | 625006 | 4766637 | 180 | 829  | T31 |  | O_3542 | 31.5 | 631668 | 4771281 | 180 | 1333 | T79 | V_3203 | 34.3 | 630720 | 4764061 | 187 | 954  | T03 |
| O_2248 | 35.0 | 625010 | 4746624 | 180 | 1356 | T61 |  | O_3543 | 31.4 | 631668 | 4771203 | 181 | 1356 | T79 | V_3205 | 37.8 | 630765 | 4767001 | 190 | 838  | T60 |
| O_2249 | 35.4 | 625012 | 4746699 | 180 | 1282 | T61 |  | O_3544 | 31.5 | 631671 | 4771267 | 180 | 1339 | T79 | V_322  | 32.0 | 616904 | 4753814 | 180 | 1325 | T98 |
| O_2251 | 34.7 | 625018 | 4746546 | 180 | 1433 | T61 |  | O_3545 | 31.8 | 631674 | 4771470 | 180 | 1301 | T79 | V_3226 | 37.7 | 631065 | 4771610 | 182 | 681  | T79 |
| O_2256 | 34.7 | 625030 | 4746552 | 180 | 1426 | T61 |  | O_3546 | 31.4 | 631675 | 4771254 | 180 | 1346 | T79 | V_3251 | 35.3 | 631220 | 4767803 | 185 | 950  | T60 |
| O_2257 | 35.2 | 625037 | 4746664 | 180 | 1313 | T61 |  | O_3547 | 31.6 | 631675 | 4771340 | 180 | 1325 | T79 | V_330  | 31.3 | 616939 | 4752260 | 180 | 1304 | T98 |
| O_2258 | 34.4 | 625041 | 4746506 | 180 | 1470 | T61 |  | O_3548 | 31.4 | 631677 | 4771239 | 180 | 1353 | T79 | V_337  | 31.8 | 616974 | 4752356 | 180 | 1219 | T98 |
| O_2260 | 35.1 | 625046 | 4746644 | 180 | 1332 | T61 |  | O_3549 | 31.7 | 631678 | 4771424 | 180 | 1311 | T79 | V_355  | 32.3 | 617052 | 4754168 | 180 | 1460 | T98 |
| O_2261 | 34.5 | 625052 | 4746516 | 180 | 1460 | T61 |  | O_3550 | 31.3 | 631679 | 4771230 | 180 | 1357 | T79 | V_3581 | 37.5 | 617952 | 4766319 | 190 | 890  | T93 |
| O_2263 | 35.0 | 625061 | 4746623 | 180 | 1352 | T61 |  | O_3551 | 31.3 | 631680 | 4771215 | 181 | 1363 | T79 | V_3582 | 39.8 | 618166 | 4767657 | 192 | 553  | T93 |
| O_2267 | 34.5 | 625072 | 4746523 | 180 | 1451 | T61 |  | O_3552 | 31.7 | 631681 | 4771478 | 180 | 1306 | T79 | V_3583 | 39.6 | 618075 | 4767629 | 193 | 561  | T93 |
| O_2268 | 34.8 | 625072 | 4746597 | 180 | 1377 | T61 |  | O_3553 | 31.6 | 631681 | 4771386 | 180 | 1321 | T79 | V_3598 | 33.7 | 629463 | 4772699 | 185 | 1017 | T80 |
| O_227  | 35.7 | 616159 | 4771824 | 180 | 839  | T88 |  | O_3554 | 31.5 | 631683 | 4771309 | 180 | 1340 | T79 | V_3599 | 32.9 | 629316 | 4772682 | 185 | 1116 | T80 |
| O_2270 | 34.8 | 625088 | 4746586 | 180 | 1387 | T61 |  | O_3555 | 31.4 | 631685 | 4771297 | 180 | 1345 | T79 | V_36   | 31.3 | 613482 | 4764148 | 180 | 1308 | T08 |
| O_2271 | 37.4 | 625090 | 4768892 | 180 | 684  | T57 |  | O_3556 | 31.4 | 631685 | 4771283 | 180 | 1349 | T79 | V_3601 | 31.2 | 631149 | 4772987 | 182 | 1391 | T80 |
| O_2273 | 35.7 | 625099 | 4767996 | 180 | 964  | T57 |  | O_3557 | 31.7 | 631688 | 4771484 | 180 | 1312 | T79 | V_3610 | 35.8 | 631146 | 4772144 | 180 | 915  | T79 |
| O_2274 | 34.6 | 625104 | 4746559 | 180 | 1413 | T61 |  | O_3558 | 31.5 | 631689 | 4771346 | 180 | 1337 | T79 | V_365  | 31.8 | 617092 | 4752191 | 180 | 1231 | T98 |
| O_228  | 35.2 | 616162 | 4761879 | 180 | 938  | T09 |  | O_3559 | 31.6 | 631691 | 4771432 | 180 | 1323 | T79 | V_3707 | 38.5 | 624405 | 4763819 | 180 | 700  | T32 |
| O_2280 | 39.9 | 625153 | 4765162 | 180 | 659  | T31 |  | O_356  | 33.5 | 617054 | 4753518 | 180 | 1042 | T98 | V_3707 | 38.5 | 624405 | 4763819 | 180 | 701  | T32 |
| O_2281 | 37.7 | 625166 | 4766569 | 180 | 749  | T31 |  | O_3560 | 31.3 | 631692 | 4771269 | 180 | 1359 | T79 | V_371  | 31.3 | 617114 | 4752046 | 180 | 1321 | T98 |
| O_2282 | 34.8 | 625181 | 4746618 | 180 | 1352 | T61 |  | O_3561 | 31.4 | 631693 | 4771322 | 180 | 1347 | T79 | V_374  | 34.1 | 617130 | 4753476 | 180 | 955  | T98 |
| O_2283 | 34.8 | 625203 | 4746613 | 180 | 1357 | T61 |  | O_3562 | 31.3 | 631693 | 4771253 | 180 | 1364 | T79 | V_376  | 31.6 | 617132 | 4752106 | 180 | 1264 | T98 |
| O_2285 | 35.0 | 625216 | 4746654 | 180 | 1316 | T61 |  | O_3563 | 31.3 | 631694 | 4771241 | 180 | 1369 | T79 | V_3819 | 36.0 | 623362 | 4769601 | 189 | 985  | T28 |
| O_2286 | 34.8 | 625221 | 4746627 | 180 | 1344 | T61 |  | O_3564 | 31.5 | 631696 | 4771400 | 180 | 1333 | T79 | V_3820 | 35.9 | 623461 | 4769538 | 180 | 1043 | T28 |
| O_2289 | 37.0 | 625233 | 4766666 | 180 | 849  | T31 |  | O_3565 | 31.2 | 631697 | 4771227 | 181 | 1375 | T79 | V_3821 | 37.6 | 624183 | 4769314 | 189 | 667  | T57 |
| O_229  | 36.0 | 616174 | 4769943 | 180 | 849  | T83 |  | O_3566 | 31.4 | 631698 | 4771311 | 180 | 1353 | T79 | V_3822 | 33.7 | 630973 | 4765544 | 190 | 1091 | T18 |
| O_2290 | 34.8 | 625236 | 4746625 | 180 | 1346 | T61 |  | O_3567 | 31.2 | 631701 | 4771216 | 181 | 1383 | T79 | V_3824 | 39.2 | 621508 | 4763690 | 184 | 703  | T74 |
| O_2292 | 34.8 | 625245 | 4746632 | 180 | 1340 | T61 |  | O_3568 | 31.4 | 631701 | 4771355 | 180 | 1347 | T79 | V_3825 | 33.1 | 620813 | 4761813 | 177 | 1457 | T74 |
| O_2295 | 34.8 | 625259 | 4746638 | 180 | 1335 | T61 |  | O_3569 | 31.1 | 631703 | 4771200 | 181 | 1389 | T79 | V_3827 | 34.2 | 623643 | 4762762 | 180 | 1300 | T36 |
| O_2297 | 39.6 | 625277 | 4765161 | 180 | 672  | T31 |  | O_357  | 33.5 | 617066 | 4771041 | 195 | 1251 | T88 | V_3828 | 34.2 | 623646 | 4762744 | 180 | 1307 | T36 |
| O_230  | 34.9 | 616175 | 4769802 | 180 | 979  | T83 |  | O_3570 | 31.3 | 631706 | 4771294 | 180 | 1366 | T79 | V_3829 | 33.6 | 623728 | 4762528 | 175 | 1451 | T36 |
| O_2301 | 35.7 | 625310 | 4750478 | 180 | 1348 | T48 |  | O_3571 | 31.3 | 631707 | 4771280 | 180 | 1370 | T79 | V_3830 | 33.5 | 623747 | 4762525 | 175 | 1470 | T36 |
| O_2304 | 35.9 | 625344 | 4746847 | 180 | 1135 | T61 |  | O_3572 | 31.2 | 631710 | 4771253 | 180 | 1381 | T79 | V_3835 | 34.1 | 613197 | 4766295 | 190 | 1045 | T52 |
| O_2306 | 35.6 | 625364 | 4768244 | 180 | 1033 | T57 |  | O_3573 | 31.2 | 631711 | 4771268 | 180 | 1378 | T79 | V_3849 | 34.2 | 628133 | 4748067 | 183 | 1084 | T23 |
| O_2310 | 35.6 | 625384 | 4746817 | 180 | 1171 | T61 |  | O_3574 | 31.1 | 631713 | 4771240 | 180 | 1387 | T79 | V_3850 | 36.1 | 627942 | 4748221 | 185 | 854  | T23 |
| O_2311 | 36.2 | 625407 | 4746921 | 180 | 1074 | T61 |  | O_3575 | 31.1 | 631717 | 4771228 | 181 | 1394 | T79 | V_3861 | 37.5 | 626313 | 4747934 | 180 | 1112 | T49 |
| O_2312 | 36.5 | 625412 | 4750263 | 180 | 1220 | T48 |  | O_3576 | 31.1 | 631719 | 4771213 | 181 | 1400 | T79 | V_3862 | 37.7 | 626355 | 4748001 | 180 | 1032 | T49 |
| O_2313 | 36.5 | 625413 | 4746964 | 180 | 1033 | T61 |  | O_359  | 33.0 | 617076 | 4761329 | 180 | 1280 | T09 | V_3863 | 37.7 | 626366 | 4748014 | 180 | 1017 | T49 |
| O_2315 | 36.5 | 625435 | 4746977 | 180 | 1026 | T61 |  | O_360  | 34.1 | 617078 | 4761475 | 180 | 1138 | T09 | V_3875 | 34.9 | 624944 | 4746585 | 185 | 1405 | T61 |

|        |      |        |         |     |      |     |  |        |      |        |         |     |      |     |  |              |             |               |                |            |            |            |
|--------|------|--------|---------|-----|------|-----|--|--------|------|--------|---------|-----|------|-----|--|--------------|-------------|---------------|----------------|------------|------------|------------|
| O_2354 | 38.9 | 625733 | 4747483 | 180 | 739  | T61 |  | O_3705 | 32.9 | 631140 | 4772702 | 180 | 1194 | T80 |  | V_471        | 38.4        | 617684        | 4766934        | 190        | 668        | T93        |
| O_2355 | 39.0 | 625735 | 4749464 | 180 | 1053 | T43 |  | O_372  | 34.0 | 617115 | 4761467 | 180 | 1156 | T09 |  | V_472        | 38.5        | 617686        | 4767001        | 190        | 650        | T93        |
| O_2357 | 38.9 | 625755 | 4747505 | 180 | 742  | T61 |  | O_373  | 33.6 | 617120 | 4761409 | 180 | 1213 | T09 |  | V_48         | 34.6        | 613751        | 4764503        | 185        | 892        | T08        |
| O_236  | 35.4 | 616227 | 4764771 | 180 | 1225 | T39 |  | O_375  | 31.5 | 617131 | 4752087 | 180 | 1279 | T98 |  | V_482        | 39.1        | 617742        | 4764831        | 185        | 677        | T39        |
| O_2362 | 39.1 | 625772 | 4749396 | 180 | 1055 | T43 |  | O_377  | 32.8 | 617149 | 4771162 | 195 | 1338 | T88 |  | V_484        | 37.0        | 617767        | 4755182        | 180        | 678        | T82        |
| O_2365 | 38.3 | 625776 | 4747425 | 180 | 810  | T61 |  | O_378  | 34.3 | 617159 | 4753504 | 180 | 944  | T98 |  | V_487        | 39.2        | 617779        | 4765797        | 188        | 585        | T97        |
| O_2366 | 37.3 | 625778 | 4747273 | 180 | 920  | T61 |  | O_381  | 32.1 | 617171 | 4755339 | 180 | 1291 | T82 |  | V_496        | 35.2        | 617827        | 4755564        | 180        | 859        | T82        |
| O_2367 | 39.1 | 625783 | 4749372 | 180 | 1055 | T43 |  | O_3826 | 33.8 | 623726 | 4762663 | 177 | 1406 | T36 |  | V_502        | 38.7        | 617864        | 4763668        | 185        | 799        | T39        |
| O_2368 | 36.7 | 625788 | 4766608 | 180 | 1013 | T31 |  | O_383  | 34.5 | 617182 | 4753468 | 180 | 906  | T98 |  | V_510        | 37.4        | 617908        | 4763284        | 185        | 1035       | T51        |
| O_2369 | 37.4 | 625793 | 4747293 | 180 | 915  | T61 |  | O_3846 | 34.4 | 628108 | 4748075 | 183 | 1064 | T23 |  | V_515        | 37.4        | 617923        | 4768749        | 195        | 829        | T94        |
| O_237  | 39.6 | 616230 | 4762769 | 180 | 592  | T09 |  | O_3847 | 37.0 | 627732 | 4748213 | 180 | 785  | T23 |  | V_516        | 35.7        | 617928        | 4769415        | 195        | 1050       | T94        |
| O_2370 | 39.2 | 625796 | 4749342 | 180 | 1055 | T43 |  | O_3848 | 37.0 | 627743 | 4748209 | 180 | 792  | T23 |  | V_520        | 36.7        | 617944        | 4753834        | 180        | 792        | T98        |
| O_2373 | 38.3 | 625800 | 4747446 | 180 | 814  | T61 |  | O_385  | 35.0 | 617196 | 4753357 | 180 | 846  | T98 |  | V_53         | 35.2        | 613971        | 4764324        | 185        | 821        | T08        |
| O_2374 | 38.7 | 625805 | 4764309 | 180 | 738  | T34 |  | O_3851 | 36.3 | 627925 | 4748226 | 185 | 842  | T23 |  | V_531        | 36.6        | 617998        | 4753864        | 180        | 821        | T98        |
| O_2376 | 38.9 | 625814 | 4747573 | 180 | 751  | T61 |  | O_3852 | 32.8 | 628359 | 4747978 | 180 | 1290 | T23 |  | V_533        | 36.3        | 618011        | 4769403        | 195        | 978        | T94        |
| O_2377 | 38.2 | 625823 | 4747460 | 180 | 823  | T61 |  | O_3853 | 32.7 | 628374 | 4747972 | 180 | 1304 | T23 |  | V_537        | 34.0        | 618034        | 4755913        | 180        | 1059       | T82        |
| O_2378 | 37.2 | 625824 | 4747298 | 180 | 933  | T61 |  | O_3854 | 38.3 | 627588 | 4748288 | 180 | 688  | T23 |  | V_538        | 38.3        | 618036        | 4768512        | 195        | 759        | T94        |
| O_238  | 38.0 | 616240 | 4766268 | 180 | 706  | T81 |  | O_3855 | 38.3 | 627506 | 4748265 | 180 | 710  | T23 |  | V_545        | 37.3        | 618057        | 4766254        | 190        | 913        | T93        |
| O_2381 | 37.7 | 625831 | 4764047 | 180 | 852  | T34 |  | O_3856 | 39.1 | 627213 | 4748301 | 180 | 721  | T49 |  | V_55         | 36.0        | 614020        | 4764387        | 185        | 742        | T08        |
| O_2382 | 37.2 | 625836 | 4747309 | 180 | 933  | T61 |  | O_3857 | 39.1 | 627198 | 4748299 | 180 | 715  | T49 |  | V_550        | 33.6        | 618082        | 4756015        | 180        | 1143       | T82        |
| O_2383 | 39.3 | 625838 | 4749261 | 180 | 1056 | T49 |  | O_3858 | 37.6 | 626251 | 4747899 | 181 | 1077 | T61 |  | V_551        | 38.4        | 618102        | 4763559        | 185        | 727        | T07        |
| O_2384 | 33.3 | 625845 | 4769726 | 180 | 1175 | T56 |  | O_3859 | 37.6 | 626321 | 4747961 | 180 | 1084 | T49 |  | V_560        | 36.8        | 618197        | 4752389        | 184        | 688        | T98        |
| O_2385 | 33.7 | 625845 | 4769647 | 180 | 1116 | T56 |  | O_386  | 32.3 | 617203 | 4755320 | 180 | 1254 | T82 |  | V_563        | 40.0        | 618217        | 4768489        | 195        | 601        | T94        |
| O_2386 | 38.8 | 625845 | 4747585 | 180 | 771  | T61 |  | O_3860 | 37.6 | 626343 | 4747992 | 180 | 1047 | T49 |  | V_570        | 39.5        | 618259        | 4767725        | 192        | 601        | T93        |
| O_2387 | 38.7 | 625846 | 4749441 | 180 | 1121 | T49 |  | O_3864 | 37.5 | 626252 | 4747852 | 180 | 1081 | T61 |  | V_571        | 32.8        | 618270        | 4756379        | 180        | 1469       | T82        |
| O_2388 | 39.4 | 625846 | 4749209 | 180 | 1032 | T49 |  | O_3865 | 36.6 | 626343 | 4747690 | 180 | 1199 | T61 |  | V_573        | 32.7        | 618291        | 4756410        | 180        | 1498       | T82        |
| O_2389 | 37.2 | 625848 | 4747318 | 180 | 935  | T61 |  | O_3866 | 36.5 | 626340 | 4747669 | 180 | 1201 | T61 |  | V_579        | 38.2        | 618337        | 4769461        | 195        | 811        | T94        |
| O_239  | 35.5 | 616242 | 4764924 | 180 | 1209 | T97 |  | O_3867 | 36.4 | 626336 | 4747652 | 180 | 1202 | T61 |  | V_586        | 35.2        | 618376        | 4749190        | 180        | 833        | T99        |
| O_2390 | 34.0 | 625849 | 4769603 | 180 | 1081 | T56 |  | O_3868 | 36.4 | 626323 | 4747633 | 180 | 1194 | T61 |  | V_587        | 34.8        | 618376        | 4748946        | 180        | 877        | T99        |
| O_2392 | 35.3 | 625859 | 4769346 | 180 | 905  | T56 |  | O_3869 | 36.4 | 626314 | 4747623 | 180 | 1189 | T61 |  | V_591        | 38.6        | 618410        | 4769465        | 194        | 780        | T94        |
| O_2393 | 38.2 | 625859 | 4747503 | 180 | 827  | T61 |  | O_3870 | 37.3 | 625872 | 4747344 | 183 | 935  | T61 |  | V_597        | 37.0        | 618462        | 4766271        | 186        | 867        | T93        |
| O_2394 | 38.8 | 625861 | 4747604 | 180 | 775  | T61 |  | O_3871 | 37.2 | 625814 | 4747285 | 184 | 936  | T61 |  | V_607        | 37.2        | 618524        | 4764929        | 185        | 884        | T07        |
| O_2400 | 38.3 | 625873 | 4747523 | 180 | 827  | T61 |  | O_3872 | 37.5 | 625632 | 4747199 | 182 | 896  | T61 |  | V_608        | 36.2        | 618535        | 4748930        | 180        | 735        | T99        |
| O_2401 | 36.4 | 625878 | 4766685 | 180 | 1130 | T31 |  | O_3873 | 34.8 | 625155 | 4746600 | 184 | 1370 | T61 |  | V_626        | 39.4        | 618675        | 4767749        | 190        | 715        | T93        |
| O_2405 | 38.9 | 625888 | 4749340 | 180 | 1039 | T49 |  | O_3874 | 34.6 | 625126 | 4746569 | 183 | 1402 | T61 |  | V_627        | 35.6        | 618694        | 4748607        | 180        | 803        | T99        |
| O_2406 | 37.3 | 625893 | 4747366 | 180 | 937  | T61 |  | O_3879 | 35.0 | 625393 | 4746711 | 184 | 1277 | T61 |  | V_646        | 37.4        | 618761        | 4764853        | 185        | 810        | T07        |
| O_2407 | 39.9 | 625894 | 4764712 | 180 | 605  | T34 |  | O_3880 | 34.7 | 625420 | 4746669 | 180 | 1324 | T61 |  | V_653        | 31.6        | 618782        | 4747855        | 180        | 1433       | T99        |
| O_2408 | 37.8 | 625899 | 4764035 | 180 | 809  | T34 |  | O_3881 | 34.9 | 625439 | 4746710 | 180 | 1287 | T61 |  | V_657        | 31.5        | 618789        | 4747811        | 180        | 1474       | T99        |
| O_2409 | 38.2 | 625900 | 4747540 | 180 | 842  | T61 |  | O_3887 | 38.9 | 619787 | 4766229 | 188 | 654  | T54 |  | V_669        | 36.9        | 618830        | 4764950        | 185        | 918        | T07        |
| O_2415 | 38.1 | 625916 | 4747540 | 180 | 855  | T61 |  | O_390  | 32.9 | 617216 | 4754442 | 180 | 1266 | T82 |  | V_671        | 36.6        | 618845        | 4766292        | 186        | 984        | T93        |
| O_2416 | 37.4 | 625918 | 4747416 | 180 | 926  | T61 |  | O_3903 | 33.9 | 631337 | 4766911 | 189 | 1311 | T60 |  | V_682        | 36.7        | 618887        | 4769924        | 190        | 853        | T85        |
| O_2417 | 33.7 | 625925 | 4769697 | 180 | 1102 | T56 |  | O_3904 | 33.5 | 631377 | 4766781 | 190 | 1370 | T18 |  | V_707        | 39.4        | 618987        | 4764486        | 185        | 558        | T07        |
| O_2418 | 38.8 | 625932 | 4765367 | 180 | 905  | T31 |  | O_392  | 33.0 | 617228 | 4754548 | 180 | 1219 | T82 |  | V_71         | 35.2        | 614487        | 4764079        | 183        | 834        | T08        |
| O_2419 | 36.5 | 625935 | 4768297 | 180 | 848  | T56 |  | O_40   | 33.5 | 613583 | 4764565 | 185 | 1022 | T08 |  | V_719        | 37.6        | 619078        | 4763539        | 181        | 678        | T07        |
| O_2420 | 39.8 | 625936 | 4748931 | 180 | 900  | T49 |  | O_402  | 35.6 | 617251 | 4767706 | 191 | 1171 | T81 |  | V_721        | 33.2        | 619090        | 4762737        | 180        | 1392       | T07        |
| O_2421 | 39.1 | 625937 | 4749236 | 180 | 954  | T49 |  | O_41   | 36.8 | 613595 | 4766009 | 190 | 811  | T52 |  | V_724        | 37.0        | 619123        | 4764964        | 185        | 1033       | T07        |
| O_2423 | 34.1 | 625941 | 4769625 | 180 | 1035 | T56 |  | O_412  | 35.8 | 617318 | 4753434 | 180 | 771  | T98 |  | V_728        | 36.6        | 619162        | 4769939        | 190        | 832        | T85        |
| O_2424 | 36.6 | 625948 | 4769204 | 180 | 753  | T56 |  | O_416  | 40.0 | 617342 | 4764890 | 185 | 610  | T39 |  | V_731        | 34.3        | 619171        | 4750322        | 181        | 1099       | T99        |
| O_2431 | 37.2 | 625972 | 4747436 | 180 | 958  | T61 |  | O_42   | 32.5 | 613613 | 4767611 | 195 | 1237 | T52 |  | <b>O_735</b> | <b>36.9</b> | <b>619195</b> | <b>4766128</b> | <b>187</b> | <b>920</b> | <b>T54</b> |
| O_2434 | 39.8 | 625982 | 4748851 | 180 | 856  | T49 |  | O_43   | 37.8 | 613659 | 4766095 | 190 | 706  | T52 |  | V_737        | 33.4        | 619223        | 4748045        | 180        | 1178       | T99        |
| O_2436 | 37.2 | 625989 | 4747446 | 180 | 966  | T61 |  | O_431  | 34.1 | 617404 | 4754760 | 180 | 998  | T82 |  | V_745        | 35.4        | 619297        | 4750161        | 181        | 942        | T99        |
| O_2439 | 37.2 | 626003 | 4747453 | 180 | 975  | T61 |  | O_437  | 37.3 | 617459 | 4753423 | 180 | 646  | T98 |  | V_748        | 36.7        | 619308        | 4766370        | 188        | 1003       | T54        |
| O_2440 | 39.6 | 626011 | 4748970 | 180 | 827  | T49 |  | O_44   | 33.7 | 613659 | 4764467 | 185 | 990  | T08 |  | V_750        | 33.5        | 619311        | 4752272        | 185        | 1493       | T42        |
| O_2441 | 39.8 | 626012 | 4748793 | 180 | 833  | T49 |  | O_441  | 36.3 | 617474 | 4753582 | 180 | 741  | T98 |  | V_751        | 35.4        | 619325        | 4752841        | 185        | 996        | T42        |
| O_2443 | 37.1 | 626025 | 4747464 | 180 | 988  | T61 |  | O_445  | 36.9 | 617504 | 4753535 | 180 | 686  | T98 |  | V_759        | 39.0        | 619387        | 4767898        | 193        | 683        | T66        |
| O_2446 | 37.0 | 626047 | 4747475 | 180 | 1001 | T61 |  | O_45   | 37.4 | 613695 | 4765962 | 190 | 770  | T52 |  | V_771        | 37.4        | 619440        | 4756078        | 180        | 1095       | T19        |
| O_2449 | 39.7 | 626063 | 4748714 | 180 | 799  | T49 |  | O_451  | 36.2 | 617519 | 4767706 | 191 | 991  | T93 |  | V_781        | 37.8        | 619558        | 4764910        | 185        | 785        | T54        |
| O_245  | 35.1 | 616304 | 4769881 | 180 | 964  | T83 |  | O_456  | 35.5 | 617562 | 4754870 | 180 | 829  | T82 |  | V_788        | 38.4        | 619630        | 4764978        | 185        | 692        | T54        |
| O_2450 | 37.0 | 626063 | 4747489 | 180 | 1008 | T61 |  | O_457  | 37.1 | 617574 | 4753578 | 180 | 673  | T98 |  | V_794        | 38.1        | 619700        | 4766284        | 188        | 731        | T54        |
| O_2453 | 37.1 | 626079 | 4747520 | 180 | 1008 | T61 |  | O_458  |      |        |         |     |      |     |  |              |             |               |                |            |            |            |



|        |      |        |         |     |      |     |  |       |      |        |         |     |      |     |  |        |      |          |         |     |      |     |  |
|--------|------|--------|---------|-----|------|-----|--|-------|------|--------|---------|-----|------|-----|--|--------|------|----------|---------|-----|------|-----|--|
| O_2487 | 37.6 | 626246 | 4747868 | 180 | 1074 | T61 |  | O_485 | 37.1 | 617769 | 4753711 | 180 | 701  | T98 |  | V_871  | 32.3 | 620121   | 4770225 | 185 | 1490 | T85 |  |
| O_2489 | 37.7 | 626253 | 4747906 | 180 | 1078 | T61 |  | O_486 | 37.6 | 617775 | 4766414 | 190 | 900  | T93 |  | V_875  | 35.4 | 620143   | 4750856 | 182 | 1293 | T96 |  |
| O_2490 | 37.4 | 626257 | 4747839 | 180 | 1088 | T61 |  | O_488 | 39.1 | 617795 | 4765735 | 187 | 588  | T97 |  | V_888  | 37.3 | 620209   | 4757857 | 184 | 961  | T72 |  |
| O_2491 | 35.8 | 626258 | 4767611 | 180 | 1261 | T56 |  | O_489 | 35.0 | 617796 | 4761971 | 184 | 1100 | T51 |  | V_890  | 35.6 | 620212   | 4750883 | 182 | 1230 | T96 |  |
| O_2492 | 37.4 | 626259 | 4747823 | 180 | 1092 | T61 |  | O_49  | 34.8 | 613837 | 4767406 | 195 | 953  | T52 |  | V_915  | 34.8 | 620307   | 4767830 | 193 | 1372 | T66 |  |
| O_2493 | 37.3 | 626261 | 4747803 | 180 | 1097 | T61 |  | O_491 | 32.0 | 617801 | 4751777 | 183 | 1279 | T98 |  | V_93   | 34.4 | 614859   | 4770309 | 200 | 1044 | T83 |  |
| O_2496 | 37.7 | 626265 | 4747946 | 180 | 1088 | T61 |  | O_492 | 33.6 | 617805 | 4761707 | 182 | 1306 | T51 |  | V_933  | 34.1 | 620362   | 4758485 | 182 | 1441 | T72 |  |
| O_2497 | 35.7 | 626266 | 4767468 | 180 | 1288 | T04 |  | O_493 | 37.9 | 617810 | 4763414 | 185 | 981  | T39 |  | V_934  | 39.1 | 620362   | 4766347 | 188 | 669  | T38 |  |
| O_2498 | 37.2 | 626267 | 4747779 | 180 | 1107 | T61 |  | O_494 | 38.0 | 617815 | 4763472 | 185 | 932  | T39 |  | V_935  | 39.0 | 620366   | 4764935 | 187 | 782  | T54 |  |
| O_2499 | 37.9 | 626270 | 4748015 | 180 | 1063 | T49 |  | O_495 | 38.8 | 617817 | 4765458 | 186 | 630  | T97 |  | V_936  | 37.2 | 620367   | 4757957 | 184 | 953  | T72 |  |
| O_25   | 33.3 | 613095 | 4766267 | 180 | 1150 | T52 |  | O_499 | 37.6 | 617830 | 4766248 | 190 | 864  | T97 |  | V_938  | 36.8 | 620388   | 4750654 | 181 | 1035 | T96 |  |
| O_250  | 34.1 | 616332 | 4769729 | 180 | 1110 | T83 |  | O_50  | 34.2 | 613831 | 4767480 | 195 | 1024 | T52 |  | V_961  | 38.5 | 620501   | 4753403 | 185 | 609  | T42 |  |
| O_2500 | 38.6 | 626279 | 4748214 | 180 | 895  | T49 |  | O_500 | 38.9 | 617839 | 4764776 | 185 | 698  | T39 |  | V_967  | 38.3 | 620536   | 4754767 | 185 | 765  | T19 |  |
| O_2502 | 36.3 | 626281 | 4766978 | 180 | 1236 | T33 |  | O_501 | 36.2 | 617845 | 4753885 | 180 | 853  | T98 |  | V_970  | 34.4 | 620551   | 4747000 | 185 | 977  | T05 |  |
| O_2504 | 37.7 | 626294 | 4747974 | 180 | 1086 | T49 |  | O_503 | 35.1 | 617866 | 4755617 | 180 | 875  | T82 |  | V_976  | 38.9 | 620577   | 4754856 | 184 | 689  | T19 |  |
| O_2506 | 36.2 | 626298 | 4767029 | 180 | 1270 | T33 |  | O_504 | 37.9 | 617872 | 4763481 | 185 | 954  | T39 |  | V_979  | 35.7 | 620607   | 4763615 | 185 | 1193 | T75 |  |
| O_2507 | 37.3 | 626299 | 4747846 | 180 | 1129 | T61 |  | O_505 | 37.9 | 617880 | 4767714 | 193 | 736  | T93 |  | V_4000 | 36.5 | 615236.4 | 4765530 | 185 | 928  | T08 |  |
| O_2509 | 37.8 | 626303 | 4748007 | 180 | 1053 | T49 |  | O_507 | 32.7 | 617899 | 4751882 | 183 | 1163 | T98 |  | O_4001 | 38.7 | 623313   | 4768678 | 190 | 780  | T27 |  |
| O_251  | 38.3 | 616354 | 4766279 | 180 | 688  | T81 |  | O_508 | 35.0 | 617900 | 4762107 | 185 | 1090 | T51 |  |        |      |          |         |     |      |     |  |
| O_2510 | 37.2 | 626304 | 4747829 | 180 | 1136 | T61 |  | O_509 | 37.5 | 617908 | 4763318 | 185 | 1035 | T07 |  |        |      |          |         |     |      |     |  |
| O_2511 | 37.4 | 626305 | 4747876 | 180 | 1131 | T61 |  | O_511 | 37.1 | 617910 | 4768943 | 195 | 861  | T94 |  |        |      |          |         |     |      |     |  |
| O_2512 | 37.1 | 626311 | 4747811 | 180 | 1145 | T61 |  | O_512 | 36.4 | 617911 | 4753884 | 180 | 844  | T98 |  |        |      |          |         |     |      |     |  |
| O_2513 | 37.0 | 626312 | 4747791 | 180 | 1150 | T61 |  | O_513 | 33.7 | 617916 | 4769930 | 193 | 1434 | T94 |  |        |      |          |         |     |      |     |  |
| O_2514 | 37.9 | 626320 | 4748042 | 180 | 1014 | T49 |  | O_514 | 32.8 | 617922 | 4761628 | 181 | 1441 | T51 |  |        |      |          |         |     |      |     |  |
| O_2515 | 36.9 | 626325 | 4747766 | 180 | 1166 | T61 |  | O_517 | 34.4 | 617938 | 4755770 | 180 | 967  | T82 |  |        |      |          |         |     |      |     |  |
| O_2516 | 38.0 | 626330 | 4748071 | 180 | 984  | T49 |  | O_518 | 37.5 | 617940 | 4768855 | 195 | 817  | T94 |  |        |      |          |         |     |      |     |  |
| O_2517 | 36.8 | 626334 | 4747749 | 180 | 1178 | T61 |  | O_519 | 37.4 | 617943 | 4768435 | 195 | 873  | T94 |  |        |      |          |         |     |      |     |  |
| O_2518 | 36.8 | 626337 | 4747737 | 180 | 1183 | T61 |  | O_52  | 38.2 | 613944 | 4765805 | 190 | 774  | T52 |  |        |      |          |         |     |      |     |  |
| O_2519 | 38.8 | 626337 | 4748288 | 180 | 801  | T49 |  | O_521 | 37.2 | 617950 | 4768177 | 195 | 994  | T94 |  |        |      |          |         |     |      |     |  |
| O_2520 | 36.7 | 626342 | 4747723 | 180 | 1190 | T61 |  | O_522 | 38.9 | 617958 | 4767627 | 193 | 619  | T93 |  |        |      |          |         |     |      |     |  |
| O_2521 | 36.6 | 626343 | 4747701 | 180 | 1197 | T61 |  | O_524 | 36.4 | 617963 | 4753926 | 180 | 884  | T98 |  |        |      |          |         |     |      |     |  |
| O_2522 | 40.0 | 626354 | 4765297 | 180 | 718  | T34 |  | O_525 | 37.8 | 617967 | 4768677 | 195 | 790  | T94 |  |        |      |          |         |     |      |     |  |
| O_2523 | 35.3 | 626361 | 4763416 | 180 | 1182 | T34 |  | O_528 | 33.9 | 617992 | 4769931 | 193 | 1393 | T94 |  |        |      |          |         |     |      |     |  |
| O_2524 | 37.3 | 626362 | 4766706 | 180 | 970  | T33 |  | O_529 | 35.7 | 617993 | 4755630 | 180 | 817  | T82 |  |        |      |          |         |     |      |     |  |
| O_2526 | 39.3 | 626380 | 4749394 | 180 | 662  | T49 |  | O_530 | 31.8 | 617993 | 4749785 | 180 | 1338 | T99 |  |        |      |          |         |     |      |     |  |
| O_2528 | 37.9 | 626398 | 4748093 | 180 | 931  | T49 |  | O_534 | 38.3 | 618020 | 4768720 | 195 | 734  | T94 |  |        |      |          |         |     |      |     |  |
| O_2530 | 37.8 | 626421 | 4766621 | 180 | 866  | T33 |  | O_535 | 38.2 | 618025 | 4768885 | 195 | 737  | T94 |  |        |      |          |         |     |      |     |  |
| O_2531 | 37.9 | 626423 | 4748105 | 180 | 909  | T49 |  | O_536 | 37.6 | 618030 | 4769124 | 195 | 807  | T94 |  |        |      |          |         |     |      |     |  |
| O_2532 | 38.0 | 626463 | 4748127 | 180 | 872  | T49 |  | O_539 | 38.2 | 618041 | 4768466 | 195 | 771  | T94 |  |        |      |          |         |     |      |     |  |
| O_2533 | 38.2 | 626466 | 4748167 | 180 | 835  | T49 |  | O_540 | 31.8 | 618043 | 4749895 | 180 | 1345 | T99 |  |        |      |          |         |     |      |     |  |
| O_2534 | 39.3 | 626476 | 4749447 | 180 | 642  | T49 |  | O_541 | 37.8 | 618043 | 4768196 | 195 | 908  | T94 |  |        |      |          |         |     |      |     |  |
| O_2535 | 38.1 | 626501 | 4748157 | 180 | 828  | T49 |  | O_542 | 38.9 | 618049 | 4767696 | 193 | 632  | T93 |  |        |      |          |         |     |      |     |  |
| O_2538 | 37.8 | 626522 | 4766716 | 180 | 887  | T33 |  | O_543 | 39.9 | 618050 | 4764364 | 185 | 663  | T07 |  |        |      |          |         |     |      |     |  |
| O_2539 | 38.2 | 626524 | 4748172 | 180 | 806  | T49 |  | O_544 | 37.4 | 618055 | 4766318 | 190 | 852  | T93 |  |        |      |          |         |     |      |     |  |
| O_2542 | 38.3 | 626556 | 4748183 | 180 | 783  | T49 |  | O_546 | 36.4 | 618066 | 4753981 | 180 | 943  | T98 |  |        |      |          |         |     |      |     |  |
| O_2545 | 38.5 | 626575 | 4748212 | 180 | 750  | T49 |  | O_547 | 38.3 | 618072 | 4769034 | 195 | 732  | T94 |  |        |      |          |         |     |      |     |  |
| O_2546 | 38.1 | 626575 | 4768084 | 180 | 741  | T56 |  | O_548 | 37.7 | 618075 | 4763443 | 185 | 829  | T07 |  |        |      |          |         |     |      |     |  |
| O_2547 | 33.4 | 626585 | 4750955 | 180 | 1370 | T24 |  | O_552 | 37.7 | 618102 | 4752438 | 183 | 616  | T98 |  |        |      |          |         |     |      |     |  |
| O_2549 | 38.9 | 626643 | 4748260 | 180 | 683  | T49 |  | O_554 | 38.3 | 618137 | 4763527 | 185 | 725  | T07 |  |        |      |          |         |     |      |     |  |
| O_2552 | 38.8 | 626675 | 4748246 | 180 | 688  | T49 |  | O_555 | 33.3 | 618140 | 4756114 | 180 | 1225 | T82 |  |        |      |          |         |     |      |     |  |
| O_2553 | 38.3 | 626678 | 4768086 | 180 | 743  | T56 |  | O_556 | 36.7 | 618143 | 4754091 | 180 | 860  | T82 |  |        |      |          |         |     |      |     |  |
| O_2554 | 39.7 | 626679 | 4763944 | 180 | 675  | T34 |  | O_557 | 33.1 | 618154 | 4749537 | 180 | 1099 | T99 |  |        |      |          |         |     |      |     |  |
| O_2556 | 39.1 | 626713 | 4748274 | 180 | 653  | T49 |  | O_558 | 37.7 | 618164 | 4763414 | 185 | 794  | T07 |  |        |      |          |         |     |      |     |  |
| O_2557 | 36.3 | 626722 | 4763508 | 180 | 1070 | T35 |  | O_559 | 34.1 | 618169 | 4755954 | 180 | 1063 | T82 |  |        |      |          |         |     |      |     |  |
| O_2558 | 38.4 | 626729 | 4768070 | 180 | 766  | T56 |  | O_56  | 39.3 | 614021 | 4765893 | 190 | 666  | T52 |  |        |      |          |         |     |      |     |  |
| O_2562 | 39.1 | 626766 | 4766655 | 180 | 734  | T33 |  | O_561 | 33.6 | 618199 | 4749072 | 180 | 1020 | T99 |  |        |      |          |         |     |      |     |  |
| O_2564 | 39.2 | 626804 | 4748276 | 180 | 640  | T49 |  | O_562 | 32.8 | 618214 | 4756304 | 180 | 1400 | T82 |  |        |      |          |         |     |      |     |  |
| O_2566 | 39.2 | 626860 | 4748277 | 180 | 639  | T49 |  | O_566 | 34.9 | 618220 | 4769883 | 191 | 1200 | T85 |  |        |      |          |         |     |      |     |  |
| O_2568 | 33.9 | 626872 | 4750965 | 180 | 1141 | T24 |  | O_568 | 36.8 | 618238 | 4754073 | 181 | 855  | T82 |  |        |      |          |         |     |      |     |  |
| O_257  | 38.5 | 616387 | 4767550 | 180 | 585  | T81 |  | O_569 | 33.8 | 618245 | 4748974 | 180 | 995  | T99 |  |        |      |          |         |     |      |     |  |
| O_2570 | 39.1 | 626887 | 4768182 | 180 | 704  | T56 |  | O_572 | 36.6 | 618280 | 4753947 | 182 | 952  | T98 |  |        |      |          |         |     |      |     |  |
| O_2571 | 39.5 | 626893 | 4748300 | 180 | 618  | T49 |  | O_574 | 36.9 | 618293 | 4754092 | 182 | 828  | T82 |  |        |      |          |         |     |      |     |  |
| O_2573 | 32.1 | 626896 | 4751391 | 180 | 1435 | T24 |  | O_575 | 31.8 | 618296 | 4750327 | 180 | 1431 | T99 |  |        |      |          |         |     |      |     |  |
| O_2574 | 39.0 | 626902 | 4768082 | 180 | 710  | T04 |  | O_576 | 38.8 | 618297 | 4763528 | 185 | 625  | T07 |  |        |      |          |         |     |      |     |  |
| O_2575 | 38.9 | 626912 | 4766743 | 180 | 795  | T33 |  | O_577 | 37.1 | 618303 | 4766248 | 187 | 880  | T93 |  |        |      |          |         |     |      |     |  |
| O_2576 | 39.4 | 626914 | 4766676 | 180 | 728  | T33 |  | O_578 | 36.8 | 618304 | 4752426 | 184 | 696  | T98 |  |        |      |          |         |     |      |     |  |
| O_2578 | 36.3 | 626937 | 4763480 | 180 | 1028 | T35 |  | O_58  | 38.7 | 614085 | 4765773 | 190 | 731  | T53 |  |        |      |          |         |     |      |     |  |
| O_258  | 36.1 | 616391 | 4764975 | 180 | 1060 |     |  |       |      |        |         |     |      |     |  |        |      |          |         |     |      |     |  |



**Stantec**

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix D Equipment Specification  
September 30, 2014

**Appendix D Equipment Specification**

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| <b>Summary of Test Report</b>   |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
|---|--|----------------------------|-----------------------|-------|---------------------------|---|----------------------------|--------------------|----------------------------|-------|-------|--------|-------|--|-------|--|
| <b>(Measured hub height of 108 m) /1/</b>   |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
| Basic sheet "Geräusche" (Noise), according to the   |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
| "Technische Richtlinien für Windenergieanlagen, Teil 1: Bestimmung der Schallemissionswerte"              |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
| (Technical Guidelines for Wind Energy Converters, Part 1: Determination of sound emission values)         |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
| Rev. 18 of February 1, 2008 (Editor: Fördergesellschaft Windenergie e.V. Stresemannplatz 4, D-24103 Kiel) |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
| Extract of Test Report 209244-04.01 IEC   |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
| on noise emission of wind energy converter of type E-82 E2  |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
| General Data  |  |                            |                       |       |                           | Technical Data (manufacturer's specifications)                                |                            |                    |                            |       |       |        |       |  |       |  |
| Manufacturer of WEC:  |  | Enercon GmbH               |                       |       |                           | Rated power (generator):  |                            | 2.300 kW           |                            |       |       |        |       |  |       |  |
| Serial number:  |  | 82679                      |                       |       |                           | Diameter of rotor:  |                            | 82 m               |                            |       |       |        |       |  |       |  |
| Location of WEC (ca.):  |  | 26629 Großefehn            |                       |       |                           | Hub height above ground:  |                            | 108 m              |                            |       |       |        |       |  |       |  |
| Geographic co-ordinates:  |  | GK longitude: 34.15.287    |                       |       |                           | Type of tower:  |                            | conical tube tower |                            |       |       |        |       |  |       |  |
|   |  | GK latitude: 59.14.701     |                       |       |                           | Power control:  |                            | Pitch              |                            |       |       |        |       |  |       |  |
| Complementary rotor data (manufacturer's specifications)  |  |                            |                       |       |                           | Complementary data of gear unit and generator (manufacturer's specifications) |                            |                    |                            |       |       |        |       |  |       |  |
| Manufacturer of rotor blade:  |  | Enercon                    |                       |       |                           |   | Manufacturer of gear unit: |                    | not applicable             |       |       |        |       |  |       |  |
| Type of rotor blade:  |  | E-82 E2                    |                       |       |                           |   | Type of gear unit:         |                    | not applicable             |       |       |        |       |  |       |  |
| Blade setting angle:  |  | variable                   |                       |       |                           |   | Manufacturer of generator: |                    | Enercon                    |       |       |        |       |  |       |  |
| Number of rotor blades:   |  | 3                          |                       |       |                           |   | Type of generator:         |                    | E-82 E2                    |       |       |        |       |  |       |  |
| Rotor speed range:  |  | 6 to 18 r.p.m. (mode OM I) |                       |       |                           |   | Generator speed range:     |                    | 6 to 18 r.p.m. (mode OM I) |       |       |        |       |  |       |  |
| Calculated Performance Chart ENERCON E-82 E2; calculated by ENERCON (Rev. 3.0)                            |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | Reference Point                        |                            |                       |       | Noise emission parameters | Observations  |                            |                    |                            |       |       |        |       |  |       |  |
|   | standardized wind speed in 10 m height |                            | true electrical power |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
| sound power level $L_{WA,P}$  | 5 $ms^{-1}$                            |                            | 579 kW                |       | 96.4 dB(A)                |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 6 $ms^{-1}$                            |                            | 1,089 kW              |       | 100.6 dB(A)               |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 7 $ms^{-1}$                            |                            | 1,612 kW              |       | 102.5 dB(A)               |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 8 $ms^{-1}$                            |                            | 2,032 kW              |       | 103.2 dB(A)               |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 9 $ms^{-1}$                            |                            | 2,255 kW              |       | 103.3 dB(A)               |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 10 $ms^{-1}$                           |                            | 2,300 kW              |       | 102.9 dB(A)               |   |                            |                    |                            |       |       |        |       |  |       |  |
| tonal audibility $\Delta L_{a,k}$   | 5 $ms^{-1}$                            |                            | kW                    |       | -2.7 dB                   |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 6 $ms^{-1}$                            |                            | kW                    |       | <- 3.0 dB                 |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 7 $ms^{-1}$                            |                            | kW                    |       | -1.8 dB                   |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 8 $ms^{-1}$                            |                            | kW                    |       | -0.7 dB                   |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 9 $ms^{-1}$                            |                            | kW                    |       | 0.2 dB                    |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 10 $ms^{-1}$                           |                            | kW                    |       | -0.4 dB                   |   |                            |                    |                            |       |       |        |       |  |       |  |
| impulse adjustment for small distances $K_{IN}$   | 5 $ms^{-1}$                            |                            | kW                    |       | 0 dB                      |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 6 $ms^{-1}$                            |                            | kW                    |       | 0 dB                      |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 7 $ms^{-1}$                            |                            | kW                    |       | 0 dB                      |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 8 $ms^{-1}$                            |                            | kW                    |       | 0 dB                      |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 9 $ms^{-1}$                            |                            | kW                    |       | 0 dB                      |   |                            |                    |                            |       |       |        |       |  |       |  |
|   | 10 $ms^{-1}$                           |                            | kW                    |       | 0 dB                      |   |                            |                    |                            |       |       |        |       |  |       |  |
| Third-octave band sound power level for $v_s = 5 ms^{-1}$ in dB(A)  |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
| Frequency   | 50                                     | 63                         | 80                    | 100   | 125                       | 160   | 200                        | 250                | 315                        | 400   | 500   | 630    |       |  |       |  |
| $L_{WA,P}$  | 74.1                                   | 76.5*                      | 80.0                  | 85.6  | 82.2                      | 81.7  | 81.9                       | 83.7               | 85.6                       | 85.1  | 85.5  | 87.6   |       |  |       |  |
| Frequency   | 800                                    | 1,000                      | 1,250                 | 1,600 | 2,000                     | 2,500   | 3,150                      | 4,000              | 5,000                      | 6,300 | 8,000 | 10,000 |       |  |       |  |
| $L_{WA,P}$  | 86.9                                   | 86.2                       | 84.8                  | 82.4  | 78.8                      | 75.3  | 70.6                       | 65.5               | 60.3*                      | 60.3* | 63.0  | 70.3   |       |  |       |  |
| Octave band sound power level for $v_s = 5 ms^{-1}$ in dB(A)  |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
| Frequency   | 63                                     |                            | 125                   |       | 250                       |   | 500                        |                    | 1,000                      |       | 2,000 |        | 4,000 |  | 8,000 |  |
| $L_{WA,P}$  | 82.3                                   |                            | 88.3                  |       | 88.8                      |   | 91.0                       |                    | 90.8                       |       | 84.5  |        | 72.1  |  | 71.4  |  |
| Third-octave band sound power level for $v_s = 6 ms^{-1}$ in dB(A)  |  |                            |                       |       |                           |   |                            |                    |                            |       |       |        |       |  |       |  |
| Frequency   | 50                                     | 63                         | 80                    | 100   | 125                       | 160   | 200                        | 250                | 315                        | 400   | 500   | 630    |       |  |       |  |
| $L_{WA,P}$  | 78.2**                                 | 79.1*                      | 82.2                  | 85.2  | 87.4                      | 84.3  | 85.0                       | 87.3               | 88.7                       | 88.5* | 89.5* | 93.2   |       |  |       |  |
| Frequency   | 800                                    | 1,000                      | 1,250                 | 1,600 | 2,000                     | 2,500   | 3,150                      | 4,000              | 5,000                      | 6,300 | 8,000 | 10,000 |       |  |       |  |
| $L_{WA,P}$  | 91.7                                   | 91.5                       | 89.9                  | 87.1  | 83.0                      | 79.4  | 74.4                       | 69.0               | 63.5                       | 64.4  | 67.4  | 74.3   |       |  |       |  |



| Octave band sound power level for $v_s = 6 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 84.9*  | 90.6  | 92.0  | 95.7  | 95.9  | 89.0  | 75.8  | 75.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 7 \text{ ms}^{-1}$ in dB(A)  |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 78.6** | 79.8  | 82.7  | 84.8  | 90.8  | 86.2  | 86.0  | 89.7  | 91.0  | 92.5  | 91.7  | 93.9   |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 93.4   | 93.3  | 91.8  | 89.2  | 85.8  | 81.9  | 77.0  | 72.2  | 66.1  | 65.3  | 66.8  | 72.8   |
| Octave band sound power level for $v_s = 7 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 85.5*  | 92.8  | 94.2  | 97.6  | 97.7  | 91.4  | 78.5  | 74.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A)  |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 77.4*  | 80.4  | 83.1  | 84.9  | 91.2  | 86.6  | 86.3  | 90.4  | 91.4  | 92.9  | 92.1* | 94.8   |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 94.2   | 94.1  | 92.6  | 90.1  | 86.7  | 82.7  | 77.8  | 73.3  | 67.7  | 65.8  | 66.6  | 71.4   |
| Octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 85.6   | 93.2  | 94.6  | 98.2  | 98.5  | 92.2  | 79.4  | 73.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A)  |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 78.5   | 81.4  | 83.9  | 85.7  | 92.6  | 88.2  | 86.4  | 90.2  | 90.7  | 91.8  | 91.5* | 93.9   |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 94.0   | 94.4  | 93.4  | 91.5  | 88.4  | 84.6  | 79.9  | 75.4  | 69.3  | 65.5* | 66.4  | 71.5   |
| Octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 86.6   | 94.6  | 94.3  | 97.3* | 98.7  | 93.8  | 81.5  | 73.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 10 \text{ ms}^{-1}$ in dB(A) |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 78.8   | 81.7  | 84.5  | 86.3  | 92.4  | 88.5  | 86.4  | 89.8  | 90.0* | 91.2  | 90.9* | 92.7*  |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 93.3   | 93.9  | 93.3  | 91.5  | 88.8  | 85.2  | 80.7  | 76.5  | 71.9  | 70.4  | 68.5  | 71.8   |
| Octave band sound power level for $v_s = 10 \text{ ms}^{-1}$ in dB(A)       |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 87.0   | 94.6  | 93.7  | 96.5* | 98.3  | 94.0  | 82.5  | 75.2  |       |       |       |        |

This summary of the test report is valid only in combination with the certification of the manufacturer of 03/05/2010.

**These specifications do not replace the test report mentioned above (particularly for noise immission predictions).**

Observations: \* Difference between working and background noise < 6 dB, correction by 1.3 dB  
 \*\* Difference between working and background noise < 3 dB, values shall not be presented

/1/ Wind turbine generator systems – Part 11: Acoustic noise; measurement techniques (IEC 61400-11:2002 and A1:2006);  
 German version DIN EN 61400-11:2007

Measured by: KÖTTER Consulting Engineers  
 - Rheine -




Date: 08/02/2010

i. V. Dipl.-Ing. O. Bunk i. A. Dipl.-Ing. J. Weinheimer

| Vorläufiger Auszug aus dem Prüfbericht   |  |  |                           |             |       |       |       |        |       |       |        |        |
|--|--|--|---------------------------|-------------|-------|-------|-------|--------|-------|-------|--------|--------|
| Stamtblatt "Geräusche", entsprechend den "Technischen Richtlinien für Windenergieanlagen, Teil 1: Bestimmung der Schallemissionswerte" |  |  |                           |             |       |       |       |        |       |       |        |        |
| Rev. 18 vom 01. Februar 2008 (Herausgeber: Fördergesellschaft Windenergie e.V. Stresemannplatz 4, D-24103 Kiel)                        |  |  |                           |             |       |       |       |        |       |       |        |        |
| Auszug aus dem Prüfbericht 213121-01.01  |  |  |                           |             |       |       |       |        |       |       |        |        |
| zur Schallemission einer Windenergieanlage vom Typ E-101   |  |  |                           |             |       |       |       |        |       |       |        |        |
| Allgemeine Angaben   |  | Technische Daten (Herstellerangaben)                           |                           |             |       |       |       |        |       |       |        |        |
| Anlagenhersteller:   | Enercon GmbH                               | Nennleistung (Generator):                                      | 3.0 (3.25) MW             |             |       |       |       |        |       |       |        |        |
| Seriennummer:  | 1010002                                    | Rotordurchmesser:  | 101 m                     |             |       |       |       |        |       |       |        |        |
| WEA-Standort (ca.):  | 49733 Haren                                | Nabenhöhe über Grund:  | 99 m                      |             |       |       |       |        |       |       |        |        |
| Standortkoordinaten:   | RW: 25.76.214<br>HW: 58.59.856             | Turmbauart:  | Beton                     |             |       |       |       |        |       |       |        |        |
|  |  | Leistungsregelung:   | Pitch                     |             |       |       |       |        |       |       |        |        |
| Ergänzende Daten zum Rotor (Herstellerangaben)   |  | Ergänzende Daten zu Getriebe und Generator (Herstellerangaben) |                           |             |       |       |       |        |       |       |        |        |
| Rotorblatthersteller:  | Enercon                                    | Getriebehersteller:  | entfällt                  |             |       |       |       |        |       |       |        |        |
| Typenbezeichnung Blatt:  | E-101-1                                    | Typenbezeichnung Getriebe:                                     | entfällt                  |             |       |       |       |        |       |       |        |        |
| Blatteinstellwinkel:   | variabel                                   | Generatorhersteller:   | Enercon                   |             |       |       |       |        |       |       |        |        |
| Rotorblattanzahl:  | 3  | Typenbezeichnung Generator:                                    | G-101/30-G2               |             |       |       |       |        |       |       |        |        |
| Rotordrehzahlbereich:  | 5 - 14,7 U/min                             | Generatorumdrehzahl:   | 14,7 U/min                |             |       |       |       |        |       |       |        |        |
| Leistungskurve: Leistungskennlinie E101 3 MW OM I (berechnet) der Enercon GmbH zur E-101 vom 05.07.2012                                |  |  |                           |             |       |       |       |        |       |       |        |        |
|  | Referenzpunkt                              |  | Schallemissions-Parameter | Bemerkungen |       |       |       |        |       |       |        |        |
|  | Normierte Windgeschwindigkeit in 10 m Höhe | Elektrische Wirkleistung                                       |                           |             |       |       |       |        |       |       |        |        |
| Schalleistungs-Pegel<br>$L_{WA,P}$   | 6 $ms^{-1}$                                | 1.414 kW   | 103,6 dB(A)               |             |       |       |       |        |       |       |        |        |
|  | 7 $ms^{-1}$                                | 2.077 kW   | 104,3 dB(A)               |             |       |       |       |        |       |       |        |        |
|  | 8 $ms^{-1}$                                | 2.751 kW   | 104,7 dB(A)               |             |       |       |       |        |       |       |        |        |
|  | 9 $ms^{-1}$                                | 2.987 kW   | 104,6 dB(A)               |             |       |       |       |        |       |       |        |        |
|  | 10 $ms^{-1}$                               | 3.050 kW   | -- dB(A)                  | (2)         |       |       |       |        |       |       |        |        |
|  | 8,3 $ms^{-1}$                              | 2.850 kW   | 104,8 dB(A)               | (1)         |       |       |       |        |       |       |        |        |
| Tonzuschlag für den Nahbereich $K_{TN}$  | 6 $ms^{-1}$                                | 1.414 kW   | 0 dB bei 116 Hz           |             |       |       |       |        |       |       |        |        |
|  | 7 $ms^{-1}$                                | 2.077 kW   | 0 dB                      |             |       |       |       |        |       |       |        |        |
|  | 8 $ms^{-1}$                                | 2.751 kW   | 0 dB                      |             |       |       |       |        |       |       |        |        |
|  | 9 $ms^{-1}$                                | 2.987 kW   | 0 dB                      |             |       |       |       |        |       |       |        |        |
|  | 10 $ms^{-1}$                               | 3.050 kW   | -- dB                     | (2)         |       |       |       |        |       |       |        |        |
|  | 8,3 $ms^{-1}$                              | 2.850 kW   | 0 dB                      | (1)         |       |       |       |        |       |       |        |        |
| Impulszuschlag für den Nahbereich $K_{IN}$   | 6 $ms^{-1}$                                | 1.414 kW   | 0 dB                      |             |       |       |       |        |       |       |        |        |
|  | 7 $ms^{-1}$                                | 2.077 kW   | 0 dB                      |             |       |       |       |        |       |       |        |        |
|  | 8 $ms^{-1}$                                | 2.751 kW   | 0 dB                      |             |       |       |       |        |       |       |        |        |
|  | 9 $ms^{-1}$                                | 2.987 kW   | 0 dB                      |             |       |       |       |        |       |       |        |        |
|  | 10 $ms^{-1}$                               | 3.050 kW   | -- dB                     | (2)         |       |       |       |        |       |       |        |        |
|  | 8,3 $ms^{-1}$                              | 2.850 kW   | 0 dB                      | (1)         |       |       |       |        |       |       |        |        |
| <b>Terz-Schalleistungspegel</b> für $v_0 = 8,3 ms^{-1}$ in dB(A) entsprechend dem maximalen Schalleistungspegel                        |  |  |                           |             |       |       |       |        |       |       |        |        |
| Frequenz   | 50   | 63   | 80                        | 125         | 160   | 200   | 250   | 315    | 400   | 500   | 630    |        |
| $L_{WA,P,max}$   | 78,8                                       | 82,1   | 82,7                      | 84,4        | 88,4  | 86,7  | 90,0  | 94,8   | 95,0  | 95,6  | 96,3   | 96,2   |
| Frequenz   | 800  | 1.000  | 1.250                     | 1.600       | 2.000 | 2.500 | 3.150 | 4.000  | 5.000 | 6.300 | 8.000  | 10.000 |
| $L_{WA,P,max}$   | 95,0                                       | 93,3   | 91,5                      | 90,4        | 86,6  | 85,4  | 83,7  | 80,8   | 75,8  | 69,7* | 67,1** | 65,5** |
| <b>Oktav-Schalleistungspegel</b> für $v_0 = 8,3 ms^{-1}$ in dB(A) entsprechend dem maximalen Schalleistungspegel                       |  |  |                           |             |       |       |       |        |       |       |        |        |
| Frequenz   | 63   | 125  | 250                       | 500         | 1.000 | 2.000 | 4.000 | 8.000  |       |       |        |        |
| $L_{WA,P,max}$   | 86,3                                       | 91,6   | 98,6                      | 100,8       | 98,3  | 92,8  | 85,9  | 73,3** |       |       |        |        |

Dieser Auszug aus dem Prüfbericht gilt nur in Verbindung mit der Herstellerbescheinigung vom 13.03.2013.

Die Angaben ersetzen nicht den o. g. Prüfbericht (insbesondere bei Schallimmissionsprognosen).

- Bemerkungen:
- (1) Die normierte Windgeschwindigkeit von  $v_0 = 8,3 ms^{-1}$  entspricht 95 % der Nennleistung.
  - (2) Witterungsbedingt keine Daten vorhanden
  - \* Abstand zwischen Anlagengeräusch und Fremdgeräusch < 6 dB, Pegelkorrektur um 1,3 dB
  - \*\* Abstand zwischen Anlagengeräusch und Fremdgeräusch < 3 dB, keine Pegelkorrektur

Gemessen durch: KÖTTER Consulting Engineers GmbH & Co., KG

Datum: 13.01.2013

i. V. Dipl.-Ing. Oliver Bunk

i. A. Matthias Humpohl, B. Sc.

| <b>Summary of Test Report</b><br><b>(Measured hub height of 99 m) /1/</b>  |   |   |                            |              |       |       |       |        |       |       |        |        |
|--|---|---|----------------------------|--------------|-------|-------|-------|--------|-------|-------|--------|--------|
| Master Data Sheet "Geräusche" (Noise), in accordance with<br>"Technische Richtlinien für Windenergieanlagen, Teil 1: Bestimmung der Schallemissionswerte"<br>(Technical Guidelines for Wind Turbine Generators, Part 1: Determination of sound emission values)<br>Rev. 18 of February 1, 2008 (Editor: Fördergesellschaft Windenergie e.V. Stresemannplatz 4, D-24103 Kiel) |   |   |                            |              |       |       |       |        |       |       |        |        |
| Extract of Test Report 213122-02.01 IEC<br>on noise emission of wind turbine generator of type E-101   |   |   |                            |              |       |       |       |        |       |       |        |        |
| General Data   |   | Technical Data (manufacturer's specifications)                                |                            |              |       |       |       |        |       |       |        |        |
| Manufacturer of WTG:   | Enercon GmbH                                      | Rated power (generator):  | 3,050 (3,250) kW           |              |       |       |       |        |       |       |        |        |
| Serial number:   | 1010002   | Diameter of rotor:  | 101 m                      |              |       |       |       |        |       |       |        |        |
| Location of WTG (approx.):   | 49733 Haren                                       | Hub height above ground:  | 99 m                       |              |       |       |       |        |       |       |        |        |
| Geographic co-ordinates:   | GK longitude: 25.76.214<br>GK latitude: 58.59.856 | Type of tower:  | conical tubular concrete   |              |       |       |       |        |       |       |        |        |
|  |   | Power control:  | Pitch                      |              |       |       |       |        |       |       |        |        |
| Complementary rotor data (manufacturer's specifications)   |   | Complementary data of gear unit and generator (manufacturer's specifications) |                            |              |       |       |       |        |       |       |        |        |
| Manufacturer of rotor blade:   | Enercon   | Manufacturer of gear unit:  | not applicable             |              |       |       |       |        |       |       |        |        |
| Type of rotor blade:   | E-101-1   | Type of gear unit:  | not applicable             |              |       |       |       |        |       |       |        |        |
| Blade setting angle:   | variable  | Manufacturer of generator:  | Enercon                    |              |       |       |       |        |       |       |        |        |
| Number of rotor blades:  | 3   | Type of generator:  | G-101/30-G2                |              |       |       |       |        |       |       |        |        |
| Rotor speed range:   | 5 to 14.7 rpm. (mode OM I)                        | Rated speed of generator:   | 5 to 14.7 rpm. (mode OM I) |              |       |       |       |        |       |       |        |        |
| Calculated Performance Chart: Performance characteristic E101 3 MW OM I ; calculated by ENERCON (Rev. 1.0)   |   |   |                            |              |       |       |       |        |       |       |        |        |
|  | Reference Point                                   |   | Noise emission parameters  | Observations |       |       |       |        |       |       |        |        |
|  | standardized wind speed at a height of 10 m       | true electrical power   |                            |              |       |       |       |        |       |       |        |        |
| sound power level $L_{WA,P}$   | 6 $ms^{-1}$                                       | 1,414 kW  | 103.6 dB(A)                |              |       |       |       |        |       |       |        |        |
|  | 7 $ms^{-1}$                                       | 2,077 kW  | 104.3 dB(A)                |              |       |       |       |        |       |       |        |        |
|  | 8 $ms^{-1}$                                       | 2,751 kW  | 104.8 dB(A)                |              |       |       |       |        |       |       |        |        |
|  | 9 $ms^{-1}$                                       | 2,987 kW  | 104.6 dB(A)                | (1)          |       |       |       |        |       |       |        |        |
|  | 10 $ms^{-1}$                                      | 3,050 kW  | —                          | (2)          |       |       |       |        |       |       |        |        |
| tonal audibility $\Delta L_{a,k}$  | 6 $ms^{-1}$                                       | 1,414 kW  | - 1.5 dB                   |              |       |       |       |        |       |       |        |        |
|  | 7 $ms^{-1}$                                       | 2,077 kW  | 0 dB                       |              |       |       |       |        |       |       |        |        |
|  | 8 $ms^{-1}$                                       | 2,751 kW  | 0 dB                       |              |       |       |       |        |       |       |        |        |
|  | 9 $ms^{-1}$                                       | 2,987 kW  | 0 dB                       | (1)          |       |       |       |        |       |       |        |        |
|  | 10 $ms^{-1}$                                      | 3,050 kW  | —                          | (2)          |       |       |       |        |       |       |        |        |
| impulse adjustment for immediate vicinity $K_{IN}$   | 6 $ms^{-1}$                                       | 1,414 kW  | 0 dB                       |              |       |       |       |        |       |       |        |        |
|  | 7 $ms^{-1}$                                       | 2,077 kW  | 0 dB                       |              |       |       |       |        |       |       |        |        |
|  | 8 $ms^{-1}$                                       | 2,751 kW  | 0 dB                       |              |       |       |       |        |       |       |        |        |
|  | 9 $ms^{-1}$                                       | 2,987 kW  | 0 dB                       | (1)          |       |       |       |        |       |       |        |        |
|  | 10 $ms^{-1}$                                      | 3,050 kW  | —                          | (2)          |       |       |       |        |       |       |        |        |
| <b>Third-octave band sound power level for <math>v_s = 6 ms^{-1}</math> in dB(A)</b>   |   |   |                            |              |       |       |       |        |       |       |        |        |
| Frequency  | 50  | 63  | 80                         | 100          | 125   | 160   | 200   | 250    | 315   | 400   | 500    | 630    |
| $L_{WA,P}$   | 78.3  | 81.8*   | 83.0**                     | 84.2         | 89.6  | 85.7* | 89.2  | 92.7   | 94.1  | 94.6  | 95.1   | 94.9   |
| Frequency  | 800   | 1,000   | 1,250                      | 1,600        | 2,000 | 2,500 | 3,150 | 4,000  | 5,000 | 6,300 | 8,000  | 10,000 |
| $L_{WA,P}$   | 93.5  | 91.6  | 90.0                       | 89.0         | 85.4  | 84.1  | 82.3  | 79.3   | 74.8  | 67.8* | 64.7** | 65.3** |
| <b>Octave band sound power level for <math>v_s = 6 ms^{-1}</math> in dB(A)</b>   |   |   |                            |              |       |       |       |        |       |       |        |        |
| Frequency  | 63  | 125   | 250                        | 500          | 1,000 | 2,000 | 4,000 | 8,000  |       |       |        |        |
| $L_{WA,P}$   | 85.6*   | 91.9  | 97.2                       | 99.6         | 96.7  | 91.5  | 84.6  | 70.3*  |       |       |        |        |
| <b>Third-octave band sound power level for <math>v_s = 7 ms^{-1}</math> in dB(A)</b>   |   |   |                            |              |       |       |       |        |       |       |        |        |
| Frequency  | 50  | 63  | 80                         | 100          | 125   | 160   | 200   | 250    | 315   | 400   | 500    | 630    |
| $L_{WA,P}$   | 78.9  | 83.3  | 84.0                       | 84.9         | 88.2  | 86.4* | 89.6  | 94.7   | 94.9  | 95.4  | 95.8   | 95.5   |
| Frequency  | 800   | 1,000   | 1,250                      | 1,600        | 2,000 | 2,500 | 3,150 | 4,000  | 5,000 | 6,300 | 8,000  | 10,000 |
| $L_{WA,P}$   | 94.0  | 92.0  | 90.4                       | 89.3         | 86.1  | 84.7  | 82.9  | 79.9   | 74.4* | 68.4* | 64.6** | 62.7** |
| <b>Octave band sound power level for <math>v_s = 7 ms^{-1}</math> in dB(A)</b>   |   |   |                            |              |       |       |       |        |       |       |        |        |
| Frequency  | 63  | 125   | 250                        | 500          | 1,000 | 2,000 | 4,000 | 8,000  |       |       |        |        |
| $L_{WA,P}$   | 87.3  | 91.5  | 98.4                       | 100.3        | 97.1  | 91.9  | 85.0  | 71.5** |       |       |        |        |

| Third-octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A) |      |       |       |       |       |       |       |        |       |       |        |        |
|--|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|
| Frequency  | 50   | 63    | 80    | 100   | 125   | 160   | 200   | 250    | 315   | 400   | 500    | 630    |
| L <sub>WAP</sub>   | 82.1 | 82.8  | 84.4  | 88.4  | 86.8  | 90.1  | 94.8  | 95.0   | 95.6  | 96.3  | 96.2   | 82.1   |
| Frequency  | 800  | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000  | 5,000 | 6,300 | 8,000  | 10,000 |
| L <sub>WAP</sub>   | 95.0 | 93.3  | 91.5  | 90.4  | 86.7  | 85.4  | 83.7  | 80.9   | 75.9  | 69.7* | 67.1** | 65.5** |
| Octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A)       |      |       |       |       |       |       |       |        |       |       |        |        |
| Frequency  | 63   | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000  |       |       |        |        |
| L <sub>WAP</sub>   | 86.3 | 91.6  | 98.6  | 100.8 | 98.3  | 92.8  | 86.0  | 73.3** |       |       |        |        |
| Third-octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A) |      |       |       |       |       |       |       |        |       |       |        |        |
| Frequency  | 50   | 63    | 80    | 100   | 125   | 160   | 200   | 250    | 315   | 400   | 500    | 630    |
| L <sub>WAP</sub>   | 78.6 | 81.9  | 82.4* | 83.9  | 87.8  | 85.9* | 88.6  | 93.8   | 94.2  | 95.1  | 96.0   | 96.3   |
| Frequency  | 800  | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000  | 5,000 | 6,300 | 8,000  | 10,000 |
| L <sub>WAP</sub>   | 95.4 | 93.8  | 92.3  | 91.0  | 87.4  | 86.0  | 84.1  | 81.1   | 76.7  | 71.7  | 68.4   | 66.8*  |
| Octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A)       |      |       |       |       |       |       |       |        |       |       |        |        |
| Frequency  | 63   | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000  |       |       |        |        |
| L <sub>WAP</sub>   | 86.0 | 90.8  | 97.6  | 100.6 | 98.8  | 93.5  | 86.4  | 74.2   |       |       |        |        |


This summary of the test report is valid only in combination with the manufacturer's certificate dated 12/03/2013.

These specifications do not replace the test report mentioned above (particularly for noise immission predictions).

- Observations:
- (1) Maximum value of standardized wind speed during the WTG-operation measurement  $v_s = 8,9 \text{ m/s}$
  - (2) Due to weather conditions, no data available during WTG operation
- \* Difference between working and background noise < 6 dB, correction by 1.3 dB  
 \*\* Difference between working and background noise < 3 dB, values shall not be presented

/1/ Wind turbine generator systems – Part 11: Acoustic noise; measurement techniques (IEC 61400-11:2002 and A1:2006); German version DIN EN 61400-11:2007

Measured by: KÖTTER Consulting Engineers  
 - Rheine -



Dipl.-Ing. Oliver Bunk      Matthias Humpohl, B.Sc.

Date: 23/04/2013



**Stantec**

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix E Sample Calculations and CADNA/A Inputs/Outputs  
(In the Attached CD)  
September 30, 2014

**Appendix E Sample Calculations and CADNA/A Inputs/Outputs  
(In the Attached CD)**

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Receiver: HVaughn3102  
 ID: O\_1097  
 X: 620899.3  
 Y: 4764949  
 Z: 184.5  
 Ground: 180

| ISO | BezeichnuiD   | X        | Y       | Z      | Ground | RefIOrd | LxT   | LxN   | L/A | Dist.  | hm   | Freq | Adiv | K0b | Agr  | Abar | z   | Aatm | Afol | Ahous | Cmet | CmetN | Dc  | RL  | LtotT | LtotN |      |
|-----|---------------|----------|---------|--------|--------|---------|-------|-------|-----|--------|------|------|------|-----|------|------|-----|------|------|-------|------|-------|-----|-----|-------|-------|------|
|     | R11TO75 T75   | 621356.9 | 4764543 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 623.6  | 63.1 | 0.0  | 66.9 | 0.0 | -0.5 | 0.0  | 0.0 | 0.0  | 1.5  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 37.0  | 37.0 |
|     | R11TO38 T38   | 620669.2 | 4765752 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 843.6  | 63.6 | 0.0  | 69.5 | 0.0 | -0.5 | 0.0  | 0.0 | 0.0  | 1.9  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 33.9  | 33.9 |
|     | R11TO54 T54   | 619944   | 4765594 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 1158.8 | 63.9 | 0.0  | 72.3 | 0.0 | -0.5 | 0.0  | 0.0 | 0.0  | 2.5  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 30.5  | 30.5 |
|     | R11TO74 T74   | 621655.8 | 4763002 | 314.65 | 179.65 | 0       | 104.8 | 104.8 | 1   | 2092.6 | 69.4 | 0.0  | 77.4 | 0.0 | -0.4 | 0.0  | 0.0 | 0.0  | 4.1  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 23.7  | 23.7 |
|     | R11TO01 T01   | 622985.8 | 4765745 | 306.25 | 182.25 | 0       | 104.8 | 104.8 | 1   | 2236.5 | 64.9 | 0.0  | 78.0 | 0.0 | -0.4 | 0.0  | 0.0 | 0.0  | 4.3  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 22.9  | 22.9 |
|     | R11TO07 T07   | 618635.6 | 4764053 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2437.6 | 63.2 | 0.0  | 78.7 | 0.0 | -0.4 | 0.0  | 0.0 | 0.0  | 4.6  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 21.8  | 21.8 |
|     | R11TO55 T55   | 623610.3 | 4764393 | 315    | 180    | 0       | 104.8 | 104.8 | 1   | 2770.4 | 69.7 | 0.0  | 79.9 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 5.1  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 20.2  | 20.2 |
|     | R11TO36 T36   | 622378.6 | 4763063 | 310    | 175    | 0       | 103.3 | 103.3 | 1   | 2400.2 | 68.5 | 0.0  | 78.6 | 0.0 | -0.2 | 0.0  | 0.0 | 0.0  | 4.8  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 20.1  | 20.1 |
|     | R11TO76 T76   | 623639.9 | 4765719 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2849.3 | 64.0 | 0.0  | 80.1 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 5.2  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 19.8  | 19.8 |
|     | R11TO06 T06   | 623095.6 | 4767244 | 309.97 | 185.97 | 0       | 104.8 | 104.8 | 1   | 3179.3 | 64.6 | 0.0  | 81.1 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 5.7  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 18.4  | 18.4 |
|     | R11TO93_ T93  | 618324   | 4767127 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 3375.1 | 64.6 | 0.0  | 81.6 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 6.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 17.6  | 17.6 |
|     | R11TO39R T39  | 617348.6 | 4764279 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 3615.3 | 63.3 | 0.0  | 82.2 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 6.3  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 16.6  | 16.6 |
|     | R11TO97 T97   | 617214.7 | 4765642 | 306.94 | 182.94 | 0       | 104.8 | 104.8 | 1   | 3751.2 | 64.7 | 0.0  | 82.5 | 0.0 | -0.2 | 0.0  | 0.0 | 0.0  | 6.5  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 16.1  | 16.1 |
|     | R11TO32 T32   | 624780.5 | 4764410 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 3920.3 | 64.2 | 0.0  | 82.9 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 6.7  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 15.5  | 15.5 |
|     | R11TO66_ T66  | 619127   | 4768529 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 3996.7 | 64.7 | 0.0  | 83.0 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 6.8  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 15.2  | 15.2 |
|     | Transform ST1 | 621959.7 | 4761728 | 182.29 | 178.59 | 0       | 103.2 | 103.2 | 1   | 3391.1 | 5.6  | 0.0  | 81.6 | 0.0 | -0.2 | 3.9  | 0.1 | 7.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 10.9  | 10.9 |
|     | R11TO27 T27   | 622534.5 | 4768708 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 4101.2 | 64.6 | 0.0  | 83.3 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 6.9  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 14.9  | 14.9 |
|     | R11TO31 T31   | 625150   | 4765821 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 4341.0 | 65.4 | 0.0  | 83.8 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 7.2  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 14.1  | 14.1 |
|     | R11TO94K T94  | 618752.1 | 4768764 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 4379.8 | 64.5 | 0.0  | 83.8 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 7.3  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 14.0  | 14.0 |
|     | R11TO28 T28   | 622516.5 | 4769096 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 4452.6 | 61.9 | 0.0  | 84.0 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 7.4  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 13.8  | 13.8 |
|     | R11TO51 T51   | 617020.3 | 4762752 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 4459.7 | 64.2 | 0.0  | 84.0 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 7.4  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 13.8  | 13.8 |
|     | R11TO85 T85   | 619135.8 | 4769108 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 4519.0 | 64.0 | 0.0  | 84.1 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 7.5  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 13.6  | 13.6 |
|     | R11TS09a5 T95 | 622816.6 | 4760851 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 4526.0 | 66.8 | 0.0  | 84.1 | 0.0 | -0.3 | 0.0  | 0.0 | 0.0  | 7.5  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 13.6  | 13.6 |
|     | R11TO09r T09  | 616789.8 | 4762576 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 4746.9 | 64.3 | 0.0  | 84.5 | 0.0 | -0.4 | 0.0  | 0.0 | 0.0  | 7.7  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 12.9  | 12.9 |
|     | R11TO81a T81  | 616342.8 | 4766967 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 4984.9 | 64.6 | 0.0  | 85.0 | 0.0 | -0.4 | 0.0  | 0.0 | 0.0  | 8.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 12.2  | 12.2 |
|     | R11TO57 T57   | 624435.2 | 4768696 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 5153.4 | 62.7 | 0.0  | 85.2 | 0.0 | -0.4 | 0.0  | 0.0 | 0.0  | 8.2  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 11.8  | 11.8 |
|     | R11TO34 T34   | 626486   | 4764591 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 5599.4 | 64.2 | 0.0  | 86.0 | 0.0 | -0.5 | 0.0  | 0.0 | 0.0  | 8.7  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 10.6  | 10.6 |
|     | R11TO33 T33   | 626968.7 | 4765950 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 6152.7 | 64.6 | 0.0  | 86.8 | 0.0 | -0.5 | 0.0  | 0.0 | 0.0  | 9.3  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 9.2   | 9.2  |
|     | R11TO35_ T35  | 627163.5 | 4764483 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 6282.6 | 64.2 | 0.0  | 87.0 | 0.0 | -0.5 | 0.0  | 0.0 | 0.0  | 9.5  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.9   | 8.9  |
|     | R11TO08 T08   | 614544.5 | 4764911 | 304.73 | 180.73 | 0       | 104.8 | 104.8 | 1   | 6356.1 | 64.0 | 0.0  | 87.1 | 0.0 | -0.5 | 0.0  | 0.0 | 0.0  | 9.5  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.7   | 8.7  |
|     | R11TO10 T10   | 623259.5 | 4758990 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 6410.5 | 63.9 | 0.0  | 87.1 | 0.0 | -0.5 | 0.0  | 0.0 | 0.0  | 9.6  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.6   | 8.6  |
|     | R11TO37 T37   | 623038.4 | 4758881 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 6435.1 | 63.8 | 0.0  | 87.2 | 0.0 | -0.5 | 0.0  | 0.0 | 0.0  | 9.6  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.6   | 8.6  |
|     | R11TO02 T02   | 627379.8 | 4765942 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 6557.3 | 64.6 | 0.0  | 87.3 | 0.0 | -0.6 | 0.0  | 0.0 | 0.0  | 9.8  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.3   | 8.3  |
|     | R11TO52 T52   | 614214.8 | 4766531 | 309.65 | 185.65 | 0       | 104.8 | 104.8 | 1   | 6870.2 | 64.5 | 0.0  | 87.7 | 0.0 | -0.6 | 0.0  | 0.0 | 0.0  | 10.1 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 7.6   | 7.6  |
|     | R11TO56_ T56  | 626599   | 4768825 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 6893.8 | 63.0 | 0.0  | 87.8 | 0.0 | -0.6 | 0.0  | 0.0 | 0.0  | 10.1 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 7.5   | 7.5  |
|     | R11TO04 T04   | 627524.4 | 4767740 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 7189.9 | 63.3 | 0.0  | 88.1 | 0.0 | -0.6 | 0.0  | 0.0 | 0.0  | 10.4 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 6.9   | 6.9  |
|     | R11TO78_ T78  | 628581   | 4764783 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 7684.4 | 63.7 | 0.0  | 88.7 | 0.0 | -0.7 | 0.0  | 0.0 | 0.0  | 10.9 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 5.9   | 5.9  |
|     | R11TO83 T83   | 615821   | 4770715 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 7684.6 | 62.2 | 0.0  | 88.7 | 0.0 | -0.7 | 0.0  | 0.0 | 0.0  | 10.9 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 5.9   | 5.9  |
|     | R11TO29 T29   | 628498   | 4763100 | 303.09 | 179.09 | 0       | 104.8 | 104.8 | 1   | 7821.2 | 65.2 | 0.0  | 88.9 | 0.0 | -0.7 | 0.0  | 0.0 | 0.0  | 11.0 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 5.6   | 5.6  |
|     | R11TO72 T72   | 620828   | 4757122 | 301.26 | 177.26 | 0       | 104.8 | 104.8 | 1   | 7828.3 | 64.8 | 0.0  | 88.9 | 0.0 | -0.7 | 0.0  | 0.0 | 0.0  | 11.0 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 5.6   | 5.6  |
|     | R11TO53 T53   | 614455.8 | 4766402 | 320    | 185    | 0       | 103.3 | 103.3 | 1   | 6606.8 | 69.8 | 0.0  | 87.4 | 0.0 | -0.4 | 0.0  | 0.0 | 0.0  | 8.8  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 7.5   | 7.5  |
|     | R11TO88 T88   | 615815.6 | 4771059 | 309.9  | 185.9  | 0       | 104.8 | 104.8 | 1   | 7949.3 | 60.3 | 0.0  | 89.0 | 0.0 | -0.7 | 0.0  | 0.0 | 0.0  | 11.1 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 5.4   | 5.4  |
|     | R11TO58_ T58  | 628473   | 4767629 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 8034.8 | 63.5 | 0.0  | 89.1 | 0.0 | -0.7 | 0.0  | 0.0 | 0.0  | 11.2 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 5.2   | 5.2  |
|     | R11TO41 T41   | 620998   | 4756851 | 300.43 | 176.43 | 0       | 104.8 | 104.8 | 1   | 8099.5 | 64.4 | 0.0  | 89.2 | 0.0 | -0.7 | 0.0  | 0.0 | 0.0  | 11.3 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 5.1   | 5.1  |
|     | R11TO11 T11   | 620836   | 4756609 | 299.87 | 175.87 | 0       | 104.8 | 104.8 | 1   | 8340.8 | 64.2 | 0.0  | 89.4 | 0.0 | -0.7 | 0.0  | 0.0 | 0.0  | 11.5 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 4.6   | 4.6  |
|     | R11TO91 T91   | 620503.9 | 4756521 | 299.05 | 175.05 | 0       | 104.8 | 104.8 | 1   | 8438.3 | 64.0 | 0.0  | 89.5 | 0.0 | -0.7 | 0.0  | 0.0 | 0.0  | 11.6 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 4.4   | 4.4  |
|     | R11TO12 T12   | 621135.3 | 4756407 | 299.2  | 175.2  | 0       | 104.8 | 104.8 | 1   | 8546.1 | 63.8 | 0.0  | 89.6 | 0.0 | -0.7 | 0.0  | 0.0 | 0.0  | 11.7 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 4.2   | 4.2  |
|     | R11TO13 T13   | 621410   | 4756122 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 8842.6 | 63.8 | 0.0  | 89.9 | 0.0 | -0.8 | 0.0  | 0.0 | 0.0  | 11.9 | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 3.7   | 3.7  |
|     | R11TO03 T03   | 629891.2 | 4763588 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 9095.2 | 64.3 | 0.0  | 90.2 | 0.0 | -0.8 | 0.0  | 0.0 | 0.0  | 12.1 | 0.0   |      |       |     |     |       |       |      |

|            |         |          |         |        |        |   |       |       |   |         |      |     |      |     |      |     |     |      |     |     |     |     |     |     |       |       |
|------------|---------|----------|---------|--------|--------|---|-------|-------|---|---------|------|-----|------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-------|-------|
| R11TO82    | T82     | 618390   | 4754915 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 10343.7 | 65.6 | 0.0 | 91.3 | 0.0 | -0.9 | 0.0 | 0.0 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3   | 1.3   |
| R11TO65    | T65     | 622983.8 | 4754679 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 10480.2 | 64.5 | 0.0 | 91.4 | 0.0 | -0.9 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1   | 1.1   |
| R11TO42    | T42     | 619935   | 4753628 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 11362.7 | 66.8 | 0.0 | 92.1 | 0.0 | -1.0 | 0.0 | 0.0 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2  | -0.2  |
| R11TO79    | T79     | 630384   | 4771637 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 11606.1 | 60.4 | 0.0 | 92.3 | 0.0 | -1.1 | 0.0 | 0.0 | 14.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.5  | -0.5  |
| R11TO80    | T80     | 630185.7 | 4771984 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 11650.7 | 60.4 | 0.0 | 92.3 | 0.0 | -1.1 | 0.0 | 0.0 | 14.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.6  | -0.6  |
| R11TO84    | T84     | 622487.1 | 4753393 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 11665.5 | 66.6 | 0.0 | 92.3 | 0.0 | -1.1 | 0.0 | 0.0 | 14.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.6  | -0.6  |
| Rosa Flora | RFT     | 615270   | 4756417 | 250    | 175    | 0 | 103.5 | 103.5 | 1 | 10222.0 | 41.3 | 0.0 | 91.2 | 0.0 | -1.5 | 0.0 | 0.0 | 10.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3   | 3.3   |
| R11TO89    | T89     | 623216.4 | 4753160 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 12015.4 | 66.8 | 0.0 | 92.6 | 0.0 | -1.1 | 0.0 | 0.0 | 14.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.0  | -1.0  |
| R11TO98    | T98     | 617981.7 | 4753043 | 302.44 | 178.44 | 0 | 104.8 | 104.8 | 1 | 12259.4 | 67.1 | 0.0 | 92.8 | 0.0 | -1.2 | 0.0 | 0.0 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.3  | -1.3  |
| Transform  | ST2     | 622836.6 | 4754679 | 178.7  | 175    | 0 | 103.2 | 103.2 | 1 | 10451.6 | 4.5  | 0.0 | 91.4 | 0.0 | 1.6  | 2.6 | 0.0 | 15.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -8.0  | -8.0  |
| R11TO62    | T62     | 621876.7 | 4751311 | 301.01 | 177.01 | 0 | 104.8 | 104.8 | 1 | 13673.6 | 64.7 | 0.0 | 93.7 | 0.0 | -1.3 | 0.0 | 0.0 | 15.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.0  | -3.0  |
| R11TO63    | T63     | 621609.3 | 4751032 | 300.37 | 176.37 | 0 | 104.8 | 104.8 | 1 | 13935.4 | 64.3 | 0.0 | 93.9 | 0.0 | -1.4 | 0.0 | 0.0 | 15.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.3  | -3.3  |
| R11TS13    | siT96   | 621422.7 | 4750668 | 299.47 | 175.47 | 0 | 104.8 | 104.8 | 1 | 14290.9 | 63.8 | 0.0 | 94.1 | 0.0 | -1.4 | 0.0 | 0.0 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.7  | -3.7  |
| R11TO20    | T20     | 620627.3 | 4749341 | 300.55 | 176.55 | 0 | 104.8 | 104.8 | 1 | 15610.5 | 64.6 | 0.0 | 94.9 | 0.0 | -1.6 | 0.0 | 0.0 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.0  | -5.0  |
| R11TO99    | (T99    | 619207.8 | 4749224 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 15816.6 | 64.1 | 0.0 | 95.0 | 0.0 | -1.7 | 0.0 | 0.0 | 16.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.2  | -5.2  |
| R11TO16    | T16     | 624153   | 4749243 | 300.29 | 176.29 | 0 | 104.8 | 104.8 | 1 | 16040.0 | 65.0 | 0.0 | 95.1 | 0.0 | -1.7 | 0.0 | 0.0 | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.4  | -5.4  |
| R11TO48    | T48     | 624687   | 4749283 | 300.42 | 176.42 | 0 | 104.8 | 104.8 | 1 | 16118.1 | 64.9 | 0.0 | 95.2 | 0.0 | -1.7 | 0.0 | 0.0 | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.5  | -5.5  |
| R11TO24    | T24     | 627752.2 | 4750239 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 16228.5 | 64.5 | 0.0 | 95.2 | 0.0 | -1.7 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.6  | -5.6  |
| R11TO45    | T45     | 623160   | 4748650 | 313.11 | 178.11 | 0 | 104.8 | 104.8 | 1 | 16455.2 | 71.2 | 0.0 | 95.3 | 0.0 | -1.7 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.8  | -5.8  |
| R11TO14    | T14     | 624137   | 4748807 | 301.05 | 177.05 | 0 | 104.8 | 104.8 | 1 | 16464.0 | 65.4 | 0.0 | 95.3 | 0.0 | -1.8 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.8  | -5.8  |
| R11TO43    | T43     | 624815.3 | 4748952 | 301.14 | 177.14 | 0 | 104.8 | 104.8 | 1 | 16469.8 | 65.3 | 0.0 | 95.3 | 0.0 | -1.8 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.8  | -5.8  |
| R11TO47    | T47     | 622482.9 | 4748447 | 314.34 | 179.34 | 0 | 104.8 | 104.8 | 1 | 16578.4 | 71.8 | 0.0 | 95.4 | 0.0 | -1.7 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.9  | -5.9  |
| HAF05(HAI  | HAF05   | 606208   | 4773395 | 285.94 | 190.94 | 0 | 105   | 105   | 1 | 16946.4 | 45.8 | 0.0 | 95.6 | 0.0 | -2.9 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.7  | -4.7  |
| R11TO44    | T44     | 624350   | 4748471 | 301.84 | 177.84 | 0 | 104.8 | 104.8 | 1 | 16835.9 | 65.8 | 0.0 | 95.5 | 0.0 | -1.8 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.1  | -6.1  |
| WF01(Wai   | WF01    | 631359   | 4751252 | 270.12 | 175.12 | 0 | 105   | 105   | 1 | 17234.3 | 51.5 | 0.0 | 95.7 | 0.0 | -3.0 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.0  | -5.0  |
| R11TO22    | T22     | 624829.2 | 4748510 | 302.04 | 178.04 | 0 | 104.8 | 104.8 | 1 | 16902.7 | 65.8 | 0.0 | 95.6 | 0.0 | -1.8 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.1  | -6.1  |
| R11TO49    | T49     | 626835.9 | 4748915 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 17098.1 | 64.5 | 0.0 | 95.7 | 0.0 | -1.9 | 0.0 | 0.0 | 17.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.3  | -6.3  |
| R11TO05    | T05     | 621171   | 4747754 | 303.78 | 179.78 | 0 | 104.8 | 104.8 | 1 | 17197.6 | 66.1 | 0.0 | 95.7 | 0.0 | -1.9 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.4  | -6.4  |
| R11TO21    | T21     | 625004   | 4748242 | 302.63 | 178.63 | 0 | 104.8 | 104.8 | 1 | 17204.3 | 66.1 | 0.0 | 95.7 | 0.0 | -1.9 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.4  | -6.4  |
| R11TO23    | T23     | 627539.7 | 4748974 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 17300.3 | 64.5 | 0.0 | 95.8 | 0.0 | -1.9 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.5  | -6.5  |
| HAF03(HAI  | HAF03   | 606276   | 4774896 | 285.99 | 190.99 | 0 | 105   | 105   | 1 | 17686.0 | 45.3 | 0.0 | 96.0 | 0.0 | -3.0 | 0.0 | 0.0 | 17.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.3  | -5.3  |
| SWT-2.221  | GREPT60 | 614680   | 4748176 | 282.59 | 183.09 | 0 | 105   | 105   | 1 | 17889.3 | 57.7 | 0.0 | 96.1 | 0.0 | -1.4 | 0.0 | 0.0 | 17.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.4  | -7.4  |
| R11TO61    | T61     | 625177   | 4747970 | 302.9  | 178.9  | 0 | 104.8 | 104.8 | 1 | 17510.0 | 66.2 | 0.0 | 95.9 | 0.0 | -1.9 | 0.0 | 0.0 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.7  | -6.7  |
| WF02(Wai   | WF02    | 631758   | 4750750 | 270.92 | 175.92 | 0 | 105   | 105   | 1 | 17875.4 | 51.9 | 0.0 | 96.1 | 0.0 | -3.1 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.4  | -5.4  |
| SWT-2.221  | GREPT57 | 614355   | 4748118 | 284.5  | 185    | 0 | 105   | 105   | 1 | 18058.9 | 58.3 | 0.0 | 96.1 | 0.0 | -1.4 | 0.0 | 0.0 | 17.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.6  | -7.6  |
| WF03(Wai   | WF03    | 631921   | 4750541 | 271.25 | 176.25 | 0 | 105   | 105   | 1 | 18140.5 | 52.0 | 0.0 | 96.2 | 0.0 | -3.1 | 0.0 | 0.0 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.6  | -5.6  |
| SWT-2.221  | GREPT61 | 614750   | 4747811 | 284.5  | 185    | 0 | 105   | 105   | 1 | 18208.2 | 58.5 | 0.0 | 96.2 | 0.0 | -1.4 | 0.0 | 0.0 | 17.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.7  | -7.7  |
| SWT-2.221  | GREPT59 | 614326   | 4747732 | 284.49 | 184.99 | 0 | 105   | 105   | 1 | 18429.5 | 58.2 | 0.0 | 96.3 | 0.0 | -1.5 | 0.0 | 0.0 | 18.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.9  | -7.9  |
| SWT-2.221  | GREPT58 | 614974   | 4747470 | 283.19 | 183.69 | 0 | 105   | 105   | 1 | 18456.4 | 57.7 | 0.0 | 96.3 | 0.0 | -1.5 | 0.0 | 0.0 | 18.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.9  | -7.9  |
| SWT-2.221  | GREPT62 | 614705   | 4747338 | 281.29 | 181.79 | 0 | 105   | 105   | 1 | 18668.9 | 56.7 | 0.0 | 96.4 | 0.0 | -1.5 | 0.0 | 0.0 | 18.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -8.0  | -8.0  |
| HAF02(HAI  | HAF02   | 604889   | 4775137 | 285.12 | 190.12 | 0 | 105   | 105   | 1 | 18977.2 | 45.0 | 0.0 | 96.6 | 0.0 | -3.2 | 0.0 | 0.0 | 17.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.2  | -6.2  |
| HAF04(HAI  | HAF04   | 604359   | 4774307 | 284.8  | 189.8  | 0 | 105   | 105   | 1 | 19004.3 | 45.1 | 0.0 | 96.6 | 0.0 | -3.2 | 0.0 | 0.0 | 17.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.2  | -6.2  |
| HAF01(HAI  | HAF01   | 604702   | 4775503 | 285.01 | 190.01 | 0 | 105   | 105   | 1 | 19332.6 | 44.9 | 0.0 | 96.7 | 0.0 | -3.3 | 0.0 | 0.0 | 18.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.4  | -6.4  |
| R11TO46    | T46     | 622737   | 4748968 | 313    | 178    | 0 | 103.3 | 103.3 | 1 | 16087.3 | 71.3 | 0.0 | 95.1 | 0.0 | -1.9 | 0.0 | 0.0 | 13.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.3  | -3.3  |
| WF05(Wai   | WF05    | 632706   | 4748817 | 272.08 | 177.08 | 0 | 105   | 105   | 1 | 19991.2 | 52.5 | 0.0 | 97.0 | 0.0 | -3.4 | 0.0 | 0.0 | 18.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.9  | -6.9  |
| Mohawk0    | MH05    | 623047   | 4746843 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 18233.1 | 44.5 | 0.0 | 96.2 | 0.0 | -0.5 | 0.0 | 0.0 | 34.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -27.8 | -27.8 |
| Mohawk0    | MH04    | 623297   | 4746604 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 18501.2 | 44.4 | 0.0 | 96.3 | 0.0 | -0.5 | 0.0 | 0.0 | 34.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.1 | -28.1 |
| Mohawk0    | MH02    | 622632   | 4746480 | 260.44 | 180.44 | 0 | 102.1 | 102.1 | 1 | 18550.3 | 44.6 | 0.0 | 96.4 | 0.0 | -0.5 | 0.0 | 0.0 | 34.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.2 | -28.2 |
| Mohawk0    | MH03    | 623974   | 4745737 | 265.45 | 185.45 | 0 | 102.1 | 102.1 | 1 | 19456.7 | 47.0 | 0.0 | 96.8 | 0.0 | -0.6 | 0.0 | 0.0 | 35.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.2 | -29.2 |
| Mohawk0    | MH06    | 622661   | 4745529 | 263.87 | 183.87 | 0 | 102.1 | 102.1 | 1 | 19500.0 | 46.1 | 0.0 | 96.8 | 0.0 | -0.6 | 0.0 | 0.0 | 35.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.3 | -29.3 |
| Mohawk0    | MH01    | 623355   | 4745400 | 268.15 | 188.15 | 0 | 102.1 | 102.1 | 1 | 19702.9 | 48.2 | 0.0 | 96.9 | 0.0 | -0.6 | 0.0 | 0.0 | 35.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.5 | -29.5 |

Limit. Valu 40 40  
Level D/N: 40.0461 40.0461

| ISO | Bezeichnung ID    | X        | Y       | Z      | Ground | RefIOrd | LxT   | LxN   | L/A | Dist.   | hm   | Freq | Adiv | KOb | Agr  | Abar | z   | Aatm | Afol | Ahaus | Cmet | CmetN | Dc  | RL  | LtotT | LtotN |
|-----|-------------------|----------|---------|--------|--------|---------|-------|-------|-----|---------|------|------|------|-----|------|------|-----|------|------|-------|------|-------|-----|-----|-------|-------|
|     | R11TO20 T20       | 620627.3 | 4749341 | 300.55 | 176.55 | 0       | 104.8 | 104.8 | 1   | 596.1   | 63.0 | 0.0  | 66.5 | 0.0 | -0.5 | 0.0  | 0.0 | 1.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 37.4  | 37.4  |
|     | R11TS13 si T96    | 621422.7 | 4750668 | 299.47 | 175.47 | 0       | 104.8 | 104.8 | 1   | 1014.8  | 64.2 | 0.0  | 71.1 | 0.0 | -0.5 | 0.0  | 0.0 | 2.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 31.9  | 31.9  |
|     | R11TO63 T63       | 621609.3 | 4751032 | 300.37 | 176.37 | 0       | 104.8 | 104.8 | 1   | 1420.1  | 64.8 | 0.0  | 74.1 | 0.0 | -0.5 | 0.0  | 0.0 | 3.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 28.3  | 28.3  |
|     | R11TO62 T62       | 621876.7 | 4751311 | 301.01 | 177.01 | 0       | 104.8 | 104.8 | 1   | 1784.4  | 65.0 | 0.0  | 76.0 | 0.0 | -0.4 | 0.0  | 0.0 | 3.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 25.6  | 25.6  |
|     | R11TO47 T47       | 622482.9 | 4748447 | 314.34 | 179.34 | 0       | 104.8 | 104.8 | 1   | 1911.9  | 69.5 | 0.0  | 76.6 | 0.0 | -0.4 | 0.0  | 0.0 | 3.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 24.8  | 24.8  |
|     | R11TO99 T99       | 619207.8 | 4749224 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 1929.6  | 63.9 | 0.0  | 76.7 | 0.0 | -0.4 | 0.0  | 0.0 | 3.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 24.7  | 24.7  |
|     | R11TO05 T05       | 621171   | 4747754 | 303.78 | 179.78 | 0       | 104.8 | 104.8 | 1   | 1977.7  | 64.1 | 0.0  | 76.9 | 0.0 | -0.4 | 0.0  | 0.0 | 3.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 24.4  | 24.4  |
|     | R11TO46 T46       | 622737   | 4748968 | 313    | 178    | 0       | 103.3 | 103.3 | 1   | 1838.3  | 69.4 | 0.0  | 76.3 | 0.0 | -0.2 | 0.0  | 0.0 | 3.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 23.3  | 23.3  |
|     | R11TO45 T45       | 623160   | 4748650 | 313.11 | 178.11 | 0       | 104.8 | 104.8 | 1   | 2356.2  | 69.3 | 0.0  | 78.4 | 0.0 | -0.4 | 0.0  | 0.0 | 4.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 22.2  | 22.2  |
|     | R11TO16 T16       | 624153   | 4749243 | 300.29 | 176.29 | 0       | 104.8 | 104.8 | 1   | 3125.4  | 63.9 | 0.0  | 80.9 | 0.0 | -0.3 | 0.0  | 0.0 | 5.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 18.6  | 18.6  |
|     | R11TO14 T14       | 624137   | 4748807 | 301.05 | 177.05 | 0       | 104.8 | 104.8 | 1   | 3206.3  | 63.8 | 0.0  | 81.1 | 0.0 | -0.3 | 0.0  | 0.0 | 5.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 18.2  | 18.2  |
|     | R11TO44 T44       | 624350   | 4748471 | 301.84 | 177.84 | 0       | 104.8 | 104.8 | 1   | 3516.2  | 63.9 | 0.0  | 81.9 | 0.0 | -0.3 | 0.0  | 0.0 | 6.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 17.0  | 17.0  |
|     | R11TO48 T48       | 624687   | 4749283 | 300.42 | 176.42 | 0       | 104.8 | 104.8 | 1   | 3648.6  | 64.1 | 0.0  | 82.2 | 0.0 | -0.3 | 0.0  | 0.0 | 6.3  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 16.5  | 16.5  |
|     | R11TO43 T43       | 624815.3 | 4748952 | 301.14 | 177.14 | 0       | 104.8 | 104.8 | 1   | 3828.7  | 64.1 | 0.0  | 82.7 | 0.0 | -0.2 | 0.0  | 0.0 | 6.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.8  | 15.8  |
|     | R11TO84 T84       | 622487.1 | 4753393 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 3934.7  | 64.6 | 0.0  | 82.9 | 0.0 | -0.3 | 0.0  | 0.0 | 6.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.5  | 15.5  |
|     | R11TO22 T22       | 624829.2 | 4748510 | 302.04 | 178.04 | 0       | 104.8 | 104.8 | 1   | 3955.1  | 64.1 | 0.0  | 82.9 | 0.0 | -0.3 | 0.0  | 0.0 | 6.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.4  | 15.4  |
|     | R11TO89 T89       | 623216.4 | 4753160 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 4053.5  | 64.9 | 0.0  | 83.2 | 0.0 | -0.3 | 0.0  | 0.0 | 6.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.1  | 15.1  |
|     | R11TO42 T42       | 619935   | 4753628 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 4065.7  | 63.9 | 0.0  | 83.2 | 0.0 | -0.3 | 0.0  | 0.0 | 6.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.0  | 15.0  |
|     | R11TO21 T21       | 625004   | 4748242 | 302.63 | 178.63 | 0       | 104.8 | 104.8 | 1   | 4208.5  | 64.2 | 0.0  | 83.5 | 0.0 | -0.3 | 0.0  | 0.0 | 7.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 14.6  | 14.6  |
|     | R11TO61 T61       | 625177   | 4747970 | 302.9  | 178.9  | 0       | 104.8 | 104.8 | 1   | 4470.4  | 64.0 | 0.0  | 84.0 | 0.0 | -0.3 | 0.0  | 0.0 | 7.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 13.7  | 13.7  |
|     | R11TO98 T98       | 617981.7 | 4753043 | 302.44 | 178.44 | 0       | 104.8 | 104.8 | 1   | 4532.3  | 63.1 | 0.0  | 84.1 | 0.0 | -0.3 | 0.0  | 0.0 | 7.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 13.6  | 13.6  |
|     | Mohawk01 MH05     | 623047   | 4746843 | 260    | 180    | 0       | 102.1 | 102.1 | 1   | 3497.4  | 41.4 | 0.0  | 81.9 | 0.0 | -1.0 | 0.0  | 0.0 | 14.5 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 6.7   | 6.7   |
|     | Mohawk02 MH02     | 622632   | 4746480 | 260.44 | 180.44 | 0       | 102.1 | 102.1 | 1   | 3603.5  | 41.4 | 0.0  | 82.1 | 0.0 | -1.0 | 0.0  | 0.0 | 14.7 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 6.2   | 6.2   |
|     | Mohawk04 MH04     | 623297   | 4746604 | 260    | 180    | 0       | 102.1 | 102.1 | 1   | 3836.6  | 41.3 | 0.0  | 82.7 | 0.0 | -1.0 | 0.0  | 0.0 | 15.3 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 5.1   | 5.1   |
|     | R11TO65 T65       | 622983.8 | 4754679 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 5312.9  | 62.3 | 0.0  | 85.5 | 0.0 | -0.4 | 0.0  | 0.0 | 8.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 11.3  | 11.3  |
|     | R11TO49 T49       | 626835.9 | 4748915 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 5826.4  | 63.6 | 0.0  | 86.3 | 0.0 | -0.5 | 0.0  | 0.0 | 9.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 10.0  | 10.0  |
|     | R11TO19 T19       | 620379.6 | 4755516 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 5832.8  | 61.5 | 0.0  | 86.3 | 0.0 | -0.5 | 0.0  | 0.0 | 9.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 10.0  | 10.0  |
|     | R11TO82 T82       | 618390   | 4754915 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 5841.0  | 61.1 | 0.0  | 86.3 | 0.0 | -0.5 | 0.0  | 0.0 | 9.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 10.0  | 10.0  |
|     | Mohawk06 MH06     | 622661   | 4745529 | 263.87 | 183.87 | 0       | 102.1 | 102.1 | 1   | 4489.4  | 41.9 | 0.0  | 84.0 | 0.0 | -1.1 | 0.0  | 0.0 | 16.8 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 2.3   | 2.3   |
|     | Transform ST2     | 622836.6 | 4754679 | 178.7  | 175    | 0       | 103.2 | 103.2 | 1   | 5259.9  | 2.9  | 0.0  | 85.4 | 0.0 | 0.3  | 3.5  | 0.0 | 9.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 4.1   | 4.1   |
|     | SWT-2.221 GREPT58 | 614974   | 4747470 | 283.19 | 183.69 | 0       | 105   | 105   | 1   | 6498.1  | 55.2 | 0.0  | 87.3 | 0.0 | -0.4 | 0.0  | 0.0 | 10.8 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 7.4   | 7.4   |
|     | R11TO13 T13       | 621410   | 4756122 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 6407.1  | 61.7 | 0.0  | 87.1 | 0.0 | -0.5 | 0.0  | 0.0 | 9.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 8.6   | 8.6   |
|     | SWT-2.221 GREPT60 | 614680   | 4748176 | 282.59 | 183.09 | 0       | 105   | 105   | 1   | 6573.3  | 55.0 | 0.0  | 87.4 | 0.0 | -0.4 | 0.0  | 0.0 | 10.9 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 7.2   | 7.2   |
|     | SWT-2.221 GREPT61 | 614750   | 4747811 | 284.5  | 185    | 0       | 105   | 105   | 1   | 6601.8  | 55.7 | 0.0  | 87.4 | 0.0 | -0.4 | 0.0  | 0.0 | 10.9 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 7.2   | 7.2   |
|     | R11TO23 T23       | 627539.7 | 4748974 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 6516.8  | 63.8 | 0.0  | 87.3 | 0.0 | -0.6 | 0.0  | 0.0 | 9.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 8.4   | 8.4   |
|     | SWT-2.221 GREPT62 | 614705   | 4747338 | 281.29 | 181.79 | 0       | 105   | 105   | 1   | 6796.2  | 54.0 | 0.0  | 87.7 | 0.0 | -0.5 | 0.0  | 0.0 | 11.1 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 6.7   | 6.7   |
|     | R11TO12 T12       | 621135.3 | 4756407 | 299.2  | 175.2  | 0       | 104.8 | 104.8 | 1   | 6683.3  | 61.8 | 0.0  | 87.5 | 0.0 | -0.6 | 0.0  | 0.0 | 9.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 8.0   | 8.0   |
|     | Mohawk01 MH01     | 623355   | 4745400 | 268.15 | 188.15 | 0       | 102.1 | 102.1 | 1   | 4893.7  | 44.5 | 0.0  | 84.8 | 0.0 | -1.1 | 0.0  | 0.0 | 17.7 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.6   | 0.6   |
|     | R11TO24 T24       | 627752.2 | 4750239 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 6705.6  | 64.4 | 0.0  | 87.5 | 0.0 | -0.6 | 0.0  | 0.0 | 9.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 7.9   | 7.9   |
|     | SWT-2.221 GREPT57 | 614355   | 4748118 | 284.5  | 185    | 0       | 105   | 105   | 1   | 6902.9  | 55.7 | 0.0  | 87.8 | 0.0 | -0.5 | 0.0  | 0.0 | 11.2 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 6.5   | 6.5   |
|     | Mohawk03 MH03     | 623974   | 4745737 | 265.45 | 185.45 | 0       | 102.1 | 102.1 | 1   | 4935.7  | 43.2 | 0.0  | 84.9 | 0.0 | -1.1 | 0.0  | 0.0 | 17.8 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.5   | 0.5   |
|     | R11TO91 T91       | 620503.9 | 4756521 | 299.05 | 175.05 | 0       | 104.8 | 104.8 | 1   | 6820.0  | 61.9 | 0.0  | 87.7 | 0.0 | -0.6 | 0.0  | 0.0 | 10.0 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 7.7   | 7.7   |
|     | SWT-2.221 GREPT59 | 614326   | 4747732 | 284.49 | 184.99 | 0       | 105   | 105   | 1   | 7030.6  | 55.2 | 0.0  | 87.9 | 0.0 | -0.5 | 0.0  | 0.0 | 11.3 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 6.2   | 6.2   |
|     | R11TO11 T11       | 620836   | 4756609 | 299.87 | 175.87 | 0       | 104.8 | 104.8 | 1   | 6889.1  | 62.3 | 0.0  | 87.8 | 0.0 | -0.6 | 0.0  | 0.0 | 10.1 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 7.5   | 7.5   |
|     | R11TO41 T41       | 620998   | 4756851 | 300.43 | 176.43 | 0       | 104.8 | 104.8 | 1   | 7127.2  | 62.6 | 0.0  | 88.1 | 0.0 | -0.6 | 0.0  | 0.0 | 10.3 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 7.0   | 7.0   |
|     | R11TO72 T72       | 620828   | 4757122 | 301.26 | 177.26 | 0       | 104.8 | 104.8 | 1   | 7401.7  | 63.1 | 0.0  | 88.4 | 0.0 | -0.6 | 0.0  | 0.0 | 10.6 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 6.5   | 6.5   |
|     | R11TO37 T37       | 623038.4 | 4758881 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 9366.4  | 63.1 | 0.0  | 90.4 | 0.0 | -0.8 | 0.0  | 0.0 | 12.4 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 2.8   | 2.8   |
|     | R11TO10 T10       | 623259.5 | 4758990 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 9521.3  | 63.1 | 0.0  | 90.6 | 0.0 | -0.8 | 0.0  | 0.0 | 12.5 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 2.6   | 2.6   |
|     | WF01(Wai WF01     | 631359   | 4751252 | 270.12 | 175.12 | 0       | 105   | 105   | 1   | 10404.7 | 50.1 | 0.0  | 91.3 | 0.0 | -1.7 | 0.0  | 0.0 | 13.6 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 1.8   | 1.8   |
|     | Rosa Flora RFT    | 615270   | 4756417 | 250    | 175    | 0       | 103.5 | 103.5 | 1   | 8854.1  | 38.3 | 0.0  | 89.9 | 0.0 | -1.3 | 0.0  | 0.0 | 9.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 5.0   | 5.0   |
|     | WF02(Wai WF02     | 631758   | 4750750 | 270.92 | 175.92 | 0       | 105   | 105   | 1   | 10740.0 | 50.5 | 0.0  | 91.6 | 0.0 | -1.8 | 0.0  | 0.0 |      |      |       |      |       |     |     |       |       |



|          |     |          |         |        |        |   |       |       |   |         |      |     |      |     |      |     |      |      |     |     |     |     |     |     |     |      |      |
|----------|-----|----------|---------|--------|--------|---|-------|-------|---|---------|------|-----|------|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|
| R11TO75  | T75 | 621356.9 | 4764543 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 14820.8 | 64.0 | 0.0 | 94.4 | 0.0 | -1.5 | 0.0 | 0.0  | 16.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.2 | -4.2 |
| R11TO55  | T55 | 623610.3 | 4764393 | 315    | 180    | 0 | 104.8 | 104.8 | 1 | 14887.7 | 71.2 | 0.0 | 94.5 | 0.0 | -1.5 | 0.0 | 0.0  | 16.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.3 | -4.3 |
| R11TO39R | T39 | 617348.6 | 4764279 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 15022.2 | 65.1 | 0.0 | 94.5 | 0.0 | -1.5 | 0.0 | 0.0  | 16.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.4 | -4.4 |
| R11TO32  | T32 | 624780.5 | 4764410 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 15147.4 | 66.2 | 0.0 | 94.6 | 0.0 | -1.6 | 0.0 | 0.0  | 16.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.5 | -4.5 |
| R11TO29  | T29 | 628498   | 4763100 | 303.09 | 179.09 | 0 | 104.8 | 104.8 | 1 | 15301.3 | 64.6 | 0.0 | 94.7 | 0.0 | -1.6 | 0.0 | 0.0  | 16.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.7 | -4.7 |
| R11TO34  | T34 | 626486   | 4764591 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 15823.5 | 65.6 | 0.0 | 95.0 | 0.0 | -1.7 | 0.0 | -0.3 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.2 | -5.2 |
| R11TO36  | T36 | 622378.6 | 4763063 | 310    | 175    | 0 | 103.3 | 103.3 | 1 | 13402.9 | 68.3 | 0.0 | 93.5 | 0.0 | -1.5 | 0.0 | 0.0  | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.0 | -1.0 |
| R11TO54  | T54 | 619944   | 4765594 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 15909.0 | 64.3 | 0.0 | 95.0 | 0.0 | -1.7 | 0.0 | 0.0  | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.3 | -5.3 |
| R11TO35_ | T35 | 627163.5 | 4764483 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 15968.0 | 65.0 | 0.0 | 95.1 | 0.0 | -1.7 | 0.0 | 0.0  | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.3 | -5.3 |
| R11TO38  | T38 | 620669.2 | 4765752 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 16032.0 | 64.2 | 0.0 | 95.1 | 0.0 | -1.7 | 0.0 | 0.0  | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.4 | -5.4 |
| R11TO01  | T01 | 622985.8 | 4765745 | 306.25 | 182.25 | 0 | 104.8 | 104.8 | 1 | 16135.1 | 66.2 | 0.0 | 95.2 | 0.0 | -1.7 | 0.0 | 0.0  | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.5 | -5.5 |
| R11TO76  | T76 | 623639.9 | 4765719 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 16200.3 | 65.3 | 0.0 | 95.2 | 0.0 | -1.7 | 0.0 | 0.0  | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.5 | -5.5 |
| R11TO97  | T97 | 617214.7 | 4765642 | 306.94 | 182.94 | 0 | 104.8 | 104.8 | 1 | 16376.9 | 66.2 | 0.0 | 95.3 | 0.0 | -1.7 | 0.0 | 0.0  | 16.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.7 | -5.7 |
| R11TO03  | T03 | 629891.2 | 4763588 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 16432.9 | 65.0 | 0.0 | 95.3 | 0.0 | -1.7 | 0.0 | 0.0  | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.7 | -5.7 |
| R11TO08  | T08 | 614544.5 | 4764911 | 304.73 | 180.73 | 0 | 104.8 | 104.8 | 1 | 16528.3 | 65.1 | 0.0 | 95.4 | 0.0 | -1.8 | 0.0 | 0.0  | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.8 | -5.8 |
| R11TO31  | T31 | 625150   | 4765821 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 16606.1 | 68.2 | 0.0 | 95.4 | 0.0 | -1.8 | 0.0 | 0.0  | 17.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.9 | -5.9 |
| R11TO78_ | T78 | 628581   | 4764783 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 16828.8 | 65.3 | 0.0 | 95.5 | 0.0 | -1.8 | 0.0 | 0.0  | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.1 | -6.1 |
| R11TO33  | T33 | 626968.7 | 4765950 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 17265.6 | 67.7 | 0.0 | 95.7 | 0.0 | -1.9 | 0.0 | -0.2 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.5 | -6.5 |
| R11TO02  | T02 | 627379.8 | 4765942 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 17402.7 | 66.9 | 0.0 | 95.8 | 0.0 | -1.9 | 0.0 | 0.0  | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.6 | -6.6 |
| R11TO93_ | T93 | 618324   | 4767127 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 17617.2 | 67.3 | 0.0 | 95.9 | 0.0 | -1.9 | 0.0 | 0.0  | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.7 | -6.7 |
| R11TO06  | T06 | 623095.6 | 4767244 | 309.97 | 185.97 | 0 | 104.8 | 104.8 | 1 | 17636.8 | 67.4 | 0.0 | 95.9 | 0.0 | -1.9 | 0.0 | 0.0  | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.8 | -6.8 |
| R11TO81a | T81 | 616342.8 | 4766967 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 17877.9 | 66.7 | 0.0 | 96.1 | 0.0 | -2.0 | 0.0 | 0.0  | 17.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.0 | -7.0 |
| R11TO52  | T52 | 614214.8 | 4766531 | 309.65 | 185.65 | 0 | 104.8 | 104.8 | 1 | 18149.3 | 67.1 | 0.0 | 96.2 | 0.0 | -2.0 | 0.0 | 0.0  | 17.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.2 | -7.2 |
| R11TO18  | T18 | 630122.5 | 4766229 | 320    | 185    | 0 | 104.8 | 104.8 | 1 | 18825.1 | 72.2 | 0.0 | 96.5 | 0.0 | -2.1 | 0.0 | 0.0  | 18.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.7 | -7.7 |
| R11TO66_ | T66 | 619127   | 4768529 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 18904.2 | 68.8 | 0.0 | 96.5 | 0.0 | -2.1 | 0.0 | 0.0  | 18.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.8 | -7.8 |
| R11TO27  | T27 | 622534.5 | 4768708 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 19039.9 | 68.1 | 0.0 | 96.6 | 0.0 | -2.1 | 0.0 | -0.8 | 18.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.9 | -7.9 |
| R11TO04  | T04 | 627524.4 | 4767740 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 19137.2 | 67.1 | 0.0 | 96.6 | 0.0 | -2.2 | 0.0 | -0.2 | 18.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.9 | -7.9 |
| R11TO94K | T94 | 618752.1 | 4768764 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 19179.8 | 68.9 | 0.0 | 96.7 | 0.0 | -2.2 | 0.0 | 0.0  | 18.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -8.0 | -8.0 |
| R11TO57  | T57 | 624435.2 | 4768696 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 19267.9 | 66.6 | 0.0 | 96.7 | 0.0 | -2.2 | 0.0 | 0.0  | 18.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -8.0 | -8.0 |
| R11TO58_ | T58 | 628473   | 4767629 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 19375.5 | 66.3 | 0.0 | 96.8 | 0.0 | -2.2 | 0.0 | 0.0  | 18.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -8.1 | -8.1 |
| R11TO28  | T28 | 622516.5 | 4769096 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 19425.1 | 65.4 | 0.0 | 96.8 | 0.0 | -2.2 | 0.0 | -0.6 | 18.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -8.1 | -8.1 |
| R11TO85  | T85 | 619135.8 | 4769108 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 19479.1 | 68.3 | 0.0 | 96.8 | 0.0 | -2.2 | 0.0 | 0.0  | 18.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -8.2 | -8.2 |
| R11TO56_ | T56 | 626599   | 4768825 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 19885.2 | 66.6 | 0.0 | 97.0 | 0.0 | -2.3 | 0.0 | 0.0  | 18.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -8.5 | -8.5 |
| R11TO53  | T53 | 614455.8 | 4766402 | 320    | 185    | 0 | 103.3 | 103.3 | 1 | 17940.5 | 72.3 | 0.0 | 96.1 | 0.0 | -2.2 | 0.0 | 0.0  | 14.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.6 | -4.6 |

Limit. Valu 40 40  
Level D/N: 40.0117 40.0117

Receiver: H1Regional202197  
ID: O\_1344  
X: 621909.6  
Y: 4768894  
Z: 194.42  
Ground: 189.92

| ISO      | Bezeichnui | ID | X        | Y       | Z      | Ground | ReflOrd | LxT   | LxN   | L/A | Dist. | hm     | Freq | Adiv | KOb  | Agr | Abar | z   | Aatm | Afol | Ahous | Cmet | CmetN | Dc  | RL  | LtotT | LtotN |      |
|----------|------------|----|----------|---------|--------|--------|---------|-------|-------|-----|-------|--------|------|------|------|-----|------|-----|------|------|-------|------|-------|-----|-----|-------|-------|------|
| R11TO28  | T28        |    | 622516.5 | 4769096 | 309    | 185    | 0       | 104.8 | 104.8 |     | 1     | 649.8  | 64.4 | 0.0  | 67.3 | 0.0 | -0.5 | 0.0 | 0.0  | 1.5  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 36.6  | 36.6 |
| R11TO27  | T27        |    | 622534.5 | 4768708 | 314    | 190    | 0       | 104.8 | 104.8 |     | 1     | 662.9  | 63.5 | 0.0  | 67.4 | 0.0 | -0.5 | 0.0 | 0.0  | 1.5  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 36.4  | 36.4 |
| R11TO06  | T06        |    | 623095.6 | 4767244 | 309.97 | 185.97 | 0       | 104.8 | 104.8 |     | 1     | 2034.9 | 63.3 | 0.0  | 77.2 | 0.0 | -0.4 | 0.0 | 0.0  | 4.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 24.0  | 24.0 |
| R11TO57  | T57        |    | 624435.2 | 4768696 | 309    | 185    | 0       | 104.8 | 104.8 |     | 1     | 2536.0 | 63.8 | 0.0  | 79.1 | 0.0 | -0.3 | 0.0 | 0.0  | 4.8  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 21.3  | 21.3 |
| R11TO85  | T85        |    | 619135.8 | 4769108 | 314    | 190    | 0       | 104.8 | 104.8 |     | 1     | 2784.6 | 65.1 | 0.0  | 79.9 | 0.0 | -0.3 | 0.0 | 0.0  | 5.1  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 20.1  | 20.1 |
| R11TO66_ | T66        |    | 619127   | 4768529 | 314    | 190    | 0       | 104.8 | 104.8 |     | 1     | 2809.0 | 64.3 | 0.0  | 80.0 | 0.0 | -0.3 | 0.0 | 0.0  | 5.2  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 20.0  | 20.0 |
| R11TO94K | T94        |    | 618752.1 | 4768764 | 314    | 190    | 0       | 104.8 | 104.8 |     | 1     | 3162.4 | 64.4 | 0.0  | 81.0 | 0.0 | -0.3 | 0.0 | 0.0  | 5.7  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 18.4  | 18.4 |
| R11TO01  | T01        |    | 622985.8 | 4765745 | 306.25 | 182.25 | 0       | 104.8 | 104.8 |     | 1     | 3329.4 | 63.5 | 0.0  | 81.5 | 0.0 | -0.3 | 0.0 | -3.2 | 5.9  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 17.7  | 17.7 |
| R11TO38  | T38        |    | 620669.2 | 4765752 | 304    | 180    | 0       | 104.8 | 104.8 |     | 1     | 3379.9 | 63.4 | 0.0  | 81.6 | 0.0 | -0.3 | 0.0 | 0.0  | 6.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 17.5  | 17.5 |
| R11TO76  | T76        |    | 623639.9 | 4765719 | 304    | 180    | 0       | 104.8 | 104.8 |     | 1     | 3617.1 | 62.6 | 0.0  | 82.2 | 0.0 | -0.3 | 0.0 | -3.3 | 6.3  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 16.6  | 16.6 |
| R11TO54  | T54        |    | 619944   | 4765594 | 304    | 180    | 0       | 104.8 | 104.8 |     | 1     | 3842.5 | 63.6 | 0.0  | 82.7 | 0.0 | -0.2 | 0.0 | 0.0  | 6.6  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 15.8  | 15.8 |
| R11TO93_ | T93        |    | 618324   | 4767127 | 309    | 185    | 0       | 104.8 | 104.8 |     | 1     | 3998.9 | 63.6 | 0.0  | 83.0 | 0.0 | -0.3 | 0.0 | 0.0  | 6.8  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 15.2  | 15.2 |
| R11TO75  | T75        |    | 621356.9 | 4764543 | 304    | 180    | 0       | 104.8 | 104.8 |     | 1     | 4387.7 | 64.8 | 0.0  | 83.8 | 0.0 | -0.3 | 0.0 | -2.9 | 7.3  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 14.0  | 14.0 |
| R11TO31  | T31        |    | 625150   | 4765821 | 309    | 185    | 0       | 104.8 | 104.8 |     | 1     | 4467.3 | 64.6 | 0.0  | 84.0 | 0.0 | -0.3 | 0.0 | -3.2 | 7.4  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 13.8  | 13.8 |
| R11TO56_ | T56        |    | 626599   | 4768825 | 309    | 185    |         |       |       |     |       |        |      |      |      |     |      |     |      |      |       |      |       |     |     |       |       |      |

|            |       |          |         |        |        |   |       |       |   |         |      |     |      |     |      |     |      |      |     |     |     |     |     |     |     |       |       |
|------------|-------|----------|---------|--------|--------|---|-------|-------|---|---------|------|-----|------|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| R11TO32    | T32   | 624780.5 | 4764410 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 5325.6  | 64.1 | 0.0 | 85.5 | 0.0 | -0.4 | 0.0 | -3.2 | 8.4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.3  | 11.3  |
| R11TO97    | T97   | 617214.7 | 4765642 | 306.94 | 182.94 | 0 | 104.8 | 104.8 | 1 | 5712.3  | 64.4 | 0.0 | 86.1 | 0.0 | -0.5 | 0.0 | 0.0  | 8.8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3  | 10.3  |
| R11TO04    | T04   | 627524.4 | 4767740 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 5733.4  | 65.3 | 0.0 | 86.2 | 0.0 | -0.5 | 0.0 | -2.9 | 8.9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3  | 10.3  |
| R11TO07    | T07   | 618635.6 | 4764053 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 5845.2  | 65.4 | 0.0 | 86.3 | 0.0 | -0.5 | 0.0 | -1.9 | 9.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0  | 10.0  |
| R11TO33    | T33   | 626968.7 | 4765950 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 5854.3  | 65.1 | 0.0 | 86.4 | 0.0 | -0.5 | 0.0 | -3.1 | 9.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9   | 9.9   |
| R11TO81a   | T81   | 616342.8 | 4766967 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 5891.9  | 64.0 | 0.0 | 86.4 | 0.0 | -0.5 | 0.0 | 0.0  | 9.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9   | 9.9   |
| R11TO74    | T74   | 621655.8 | 4763002 | 314.65 | 179.65 | 0 | 104.8 | 104.8 | 1 | 5898.4  | 71.3 | 0.0 | 86.4 | 0.0 | -0.4 | 0.0 | -3.0 | 9.1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.8   | 9.8   |
| R11TO02    | T02   | 627379.8 | 4765942 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 6216.9  | 65.2 | 0.0 | 86.9 | 0.0 | -0.5 | 0.0 | -3.1 | 9.4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.1   | 9.1   |
| R11TO34    | T34   | 626486   | 4764591 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 6282.3  | 63.2 | 0.0 | 87.0 | 0.0 | -0.5 | 0.0 | -3.2 | 9.5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.9   | 8.9   |
| R11TO83    | T83   | 615821   | 4770715 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 6356.2  | 67.0 | 0.0 | 87.1 | 0.0 | -0.5 | 0.0 | 0.0  | 9.5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.7   | 8.7   |
| R11TO88    | T88   | 615815.6 | 4771059 | 309.9  | 185.9  | 0 | 104.8 | 104.8 | 1 | 6468.2  | 65.7 | 0.0 | 87.2 | 0.0 | -0.6 | 0.0 | 0.0  | 9.7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.5   | 8.5   |
| R11TO39R   | T39   | 617348.6 | 4764279 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 6489.2  | 65.2 | 0.0 | 87.2 | 0.0 | -0.6 | 0.0 | 0.0  | 9.7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.4   | 8.4   |
| R11TO58_   | T58   | 628473   | 4767629 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 6685.2  | 65.6 | 0.0 | 87.5 | 0.0 | -0.6 | 0.0 | -2.8 | 9.9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0   | 8.0   |
| R11TO35_   | T35   | 627163.5 | 4764483 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 6860.9  | 63.8 | 0.0 | 87.7 | 0.0 | -0.6 | 0.0 | -3.2 | 10.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6   | 7.6   |
| R11TO36    | T36   | 622378.6 | 4763063 | 310    | 175    | 0 | 103.3 | 103.3 | 1 | 5850.8  | 69.6 | 0.0 | 86.3 | 0.0 | -0.3 | 0.0 | -3.1 | 8.3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0   | 9.0   |
| R11TO78_   | T78   | 628581   | 4764783 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 7837.1  | 63.2 | 0.0 | 88.9 | 0.0 | -0.7 | 0.0 | -3.1 | 11.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6   | 5.6   |
| R11TO51    | T51   | 617020.3 | 4762752 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 7851.3  | 66.2 | 0.0 | 88.9 | 0.0 | -0.7 | 0.0 | -1.6 | 11.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6   | 5.6   |
| R11TO52    | T52   | 614214.8 | 4766531 | 309.65 | 185.65 | 0 | 104.8 | 104.8 | 1 | 8050.3  | 64.9 | 0.0 | 89.1 | 0.0 | -0.7 | 0.0 | 0.0  | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2   | 5.2   |
| R11TS09a   | T95   | 622816.6 | 4760851 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 8094.7  | 68.5 | 0.0 | 89.2 | 0.0 | -0.7 | 0.0 | -3.1 | 11.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.1   | 5.1   |
| R11TO09r   | T09   | 616789.8 | 4762576 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 8132.6  | 66.2 | 0.0 | 89.2 | 0.0 | -0.7 | 0.0 | -1.6 | 11.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0   | 5.0   |
| R11TO59    | T59   | 629964   | 4767676 | 308.03 | 184.03 | 0 | 104.8 | 104.8 | 1 | 8146.8  | 66.1 | 0.0 | 89.2 | 0.0 | -0.7 | 0.0 | -2.8 | 11.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0   | 5.0   |
| R11TO08    | T08   | 614544.5 | 4764911 | 304.73 | 180.73 | 0 | 104.8 | 104.8 | 1 | 8373.6  | 64.1 | 0.0 | 89.5 | 0.0 | -0.7 | 0.0 | 0.0  | 11.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6   | 4.6   |
| R11TO60    | T60   | 630277.4 | 4767682 | 320    | 185    | 0 | 104.8 | 104.8 | 1 | 8456.1  | 72.0 | 0.0 | 89.5 | 0.0 | -0.7 | 0.0 | -2.8 | 11.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4   | 4.4   |
| R11TO18    | T18   | 630122.5 | 4766229 | 320    | 185    | 0 | 104.8 | 104.8 | 1 | 8635.5  | 71.4 | 0.0 | 89.7 | 0.0 | -0.7 | 0.0 | -3.0 | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0   | 4.0   |
| Transform  | ST1   | 621959.7 | 4761728 | 182.29 | 178.59 | 0 | 103.2 | 103.2 | 1 | 7166.1  | 7.5  | 0.0 | 88.1 | 0.0 | 0.8  | 3.2 | 0.0  | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.2  | -1.2  |
| R11TO29    | T29   | 628498   | 4763100 | 303.09 | 179.09 | 0 | 104.8 | 104.8 | 1 | 8774.0  | 64.6 | 0.0 | 89.9 | 0.0 | -0.8 | 0.0 | -3.2 | 11.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8   | 3.8   |
| R11TO80    | T80   | 630185.7 | 4771984 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 8834.8  | 66.6 | 0.0 | 89.9 | 0.0 | -0.8 | 0.0 | -1.5 | 11.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7   | 3.7   |
| R11TO79    | T79   | 630384   | 4771637 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 8908.0  | 66.2 | 0.0 | 90.0 | 0.0 | -0.8 | 0.0 | -1.7 | 12.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6   | 3.6   |
| R11TO53    | T53   | 614455.8 | 4766402 | 320    | 185    | 0 | 103.3 | 103.3 | 1 | 7860.2  | 70.1 | 0.0 | 88.9 | 0.0 | -0.6 | 0.0 | 0.0  | 9.6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4   | 5.4   |
| R11TO03    | T03   | 629891.2 | 4763588 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 9585.3  | 64.5 | 0.0 | 90.6 | 0.0 | -0.8 | 0.0 | -3.1 | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5   | 2.5   |
| R11TO10    | T10   | 623259.5 | 4758990 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 9996.1  | 66.6 | 0.0 | 91.0 | 0.0 | -0.9 | 0.0 | -3.1 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8   | 1.8   |
| R11TO37    | T37   | 623038.4 | 4758881 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 10076.9 | 66.6 | 0.0 | 91.1 | 0.0 | -0.9 | 0.0 | -3.0 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7   | 1.7   |
| R11TO72    | T72   | 620828   | 4757122 | 301.26 | 177.26 | 0 | 104.8 | 104.8 | 1 | 11822.0 | 67.3 | 0.0 | 92.5 | 0.0 | -1.1 | 0.0 | -2.9 | 14.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.8  | -0.8  |
| R11TO41    | T41   | 620998   | 4756851 | 300.43 | 176.43 | 0 | 104.8 | 104.8 | 1 | 12077.9 | 66.7 | 0.0 | 92.6 | 0.0 | -1.1 | 0.0 | -2.9 | 14.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.1  | -1.1  |
| R11TO11    | T11   | 620836   | 4756609 | 299.87 | 175.87 | 0 | 104.8 | 104.8 | 1 | 12331.9 | 66.7 | 0.0 | 92.8 | 0.0 | -1.2 | 0.0 | -2.9 | 14.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.4  | -1.4  |
| R11TO91    | T91   | 620503.9 | 4756521 | 299.05 | 175.05 | 0 | 104.8 | 104.8 | 1 | 12453.2 | 66.7 | 0.0 | 92.9 | 0.0 | -1.2 | 0.0 | -2.8 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.6  | -1.6  |
| R11TO12    | T12   | 621135.3 | 4756407 | 299.2  | 175.2  | 0 | 104.8 | 104.8 | 1 | 12511.4 | 66.3 | 0.0 | 93.0 | 0.0 | -1.2 | 0.0 | -2.9 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.7  | -1.7  |
| R11TO13    | T13   | 621410   | 4756122 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 12782.1 | 66.5 | 0.0 | 93.1 | 0.0 | -1.2 | 0.0 | -2.9 | 14.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.0  | -2.0  |
| R11TO19_   | T19   | 620379.6 | 4755516 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 13465.5 | 67.0 | 0.0 | 93.6 | 0.0 | -1.3 | 0.0 | -2.8 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.8  | -2.8  |
| R11TO65    | T65   | 622983.8 | 4754679 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 14256.0 | 67.9 | 0.0 | 94.1 | 0.0 | -1.4 | 0.0 | -3.0 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.6  | -3.6  |
| R11TO82    | T82   | 618390   | 4754915 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 14415.6 | 68.1 | 0.0 | 94.2 | 0.0 | -1.5 | 0.0 | -2.7 | 15.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.8  | -3.8  |
| R11TO42    | T42   | 619935   | 4753628 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 15393.5 | 69.9 | 0.0 | 94.8 | 0.0 | -1.6 | 0.0 | -2.8 | 16.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.8  | -4.8  |
| R11TO84    | T84   | 622487.1 | 4753393 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 15512.4 | 70.7 | 0.0 | 94.8 | 0.0 | -1.6 | 0.0 | -3.0 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.9  | -4.9  |
| R11TO89    | T89   | 623216.4 | 4753160 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 15788.7 | 70.4 | 0.0 | 95.0 | 0.0 | -1.7 | 0.0 | -3.0 | 16.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.1  | -5.1  |
| HAF05(HAI  | HAF05 | 606208   | 4773395 | 285.94 | 190.94 | 0 | 105   | 105   | 1 | 16334.2 | 49.4 | 0.0 | 95.3 | 0.0 | -2.8 | 0.0 | 0.0  | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.3  | -4.3  |
| R11TO98    | T98   | 617981.7 | 4753043 | 302.44 | 178.44 | 0 | 104.8 | 104.8 | 1 | 16331.2 | 70.0 | 0.0 | 95.3 | 0.0 | -1.7 | 0.0 | -2.7 | 16.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.6  | -5.6  |
| Rosa Flora | RFT   | 615270   | 4756417 | 250    | 175    | 0 | 103.5 | 103.5 | 1 | 14133.7 | 43.1 | 0.0 | 94.0 | 0.0 | -2.1 | 0.0 | -2.2 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.6  | -0.6  |
| HAF03(HAI  | HAF03 | 606276   | 4774896 | 285.99 | 190.99 | 0 | 105   | 105   | 1 | 16746.4 | 50.5 | 0.0 | 95.5 | 0.0 | -2.9 | 0.0 | 0.0  | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.6  | -4.6  |
| Transform  | ST2   | 622836.6 | 4754679 | 178.7  | 175    | 0 | 103.2 | 103.2 | 1 | 14245.6 | 7.9  | 0.0 | 94.1 | 0.0 | 2.1  | 2.1 | 0.0  | 18.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -13.7 | -13.7 |
| R11TO62    | T62   | 621876.7 | 4751311 | 301.01 | 177.01 | 0 | 104.8 | 104.8 | 1 | 17583.4 | 68.4 | 0.0 | 95.9 | 0.0 | -1.9 | 0.0 | -2.9 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.7  | -6.7  |
| HAF02(HAI  | HAF02 | 6048     |         |        |        |   |       |       |   |         |      |     |      |     |      |     |      |      |     |     |     |     |     |     |     |       |       |

Limit. Valu 40 40  
 Level D/N: 40.0135 40.0135

Receiver: H1Regional201041  
 ID: O\_1707  
 X: 623108.4  
 Y: 4766469  
 Z: 189.5  
 Ground: 185

| ISO | Bezeichnung | ID  | X        | Y       | Z      | Ground | RefIOrd | LxT   | LxN   | L/A | Dist.  | hm   | Freq | Adiv | K0b | Agr  | Abar | z    | Aatm | Afol | Ahous | Cmet  | CmetN | Dc  | RL  | LtotT | LtotN |      |
|-----|-------------|-----|----------|---------|--------|--------|---------|-------|-------|-----|--------|------|------|------|-----|------|------|------|------|------|-------|-------|-------|-----|-----|-------|-------|------|
|     | R11TO01     | T01 | 622985.8 | 4765745 | 306.25 | 182.25 | 0       | 104.8 | 104.8 | 1   | 743.2  | 62.9 | 0.0  | 68.4 | 0.0 | -0.5 | 0.0  | 0.0  | 1.7  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 35.2  | 35.2  |      |
|     | R11TO06     | T06 | 623095.6 | 4767244 | 309.97 | 185.97 | 0       | 104.8 | 104.8 | 1   | 784.9  | 63.8 | 0.0  | 68.9 | 0.0 | -0.5 | 0.0  | 0.0  | 1.8  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 34.6  | 34.6 |
|     | R11TO76     | T76 | 623639.9 | 4765719 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 925.9  | 63.2 | 0.0  | 70.3 | 0.0 | -0.5 | 0.0  | 0.0  | 2.1  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 32.9  | 32.9 |
|     | R11TO55     | T55 | 623610.3 | 4764393 | 315    | 180    | 0       | 104.8 | 104.8 | 1   | 2139.1 | 70.6 | 0.0  | 77.6 | 0.0 | -0.4 | 0.0  | 0.0  | 4.1  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 23.4  | 23.4 |
|     | R11TO31     | T31 | 625150   | 4765821 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2145.3 | 64.2 | 0.0  | 77.6 | 0.0 | -0.4 | 0.0  | 0.0  | 4.2  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 23.4  | 23.4 |
|     | R11TO27     | T27 | 622534.5 | 4768708 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 2314.8 | 64.2 | 0.0  | 78.3 | 0.0 | -0.4 | 0.0  | 0.0  | 4.4  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 22.5  | 22.5 |
|     | R11TO38     | T38 | 620669.2 | 4765752 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2545.0 | 64.1 | 0.0  | 79.1 | 0.0 | -0.3 | 0.0  | 0.0  | 4.8  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 21.3  | 21.3 |
|     | R11TO57     | T57 | 624435.2 | 4768696 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2595.1 | 63.7 | 0.0  | 79.3 | 0.0 | -0.3 | 0.0  | 0.0  | 4.8  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 21.0  | 21.0 |
|     | R11TO75     | T75 | 621356.9 | 4764543 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2606.1 | 65.0 | 0.0  | 79.3 | 0.0 | -0.3 | 0.0  | 0.0  | 4.9  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 21.0  | 21.0 |
|     | R11TO32     | T32 | 624780.5 | 4764410 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2655.0 | 65.4 | 0.0  | 79.5 | 0.0 | -0.3 | 0.0  | 0.0  | 4.9  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 20.7  | 20.7 |
|     | R11TO28     | T28 | 622516.5 | 4769096 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2695.3 | 62.2 | 0.0  | 79.6 | 0.0 | -0.3 | 0.0  | 0.0  | 5.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 20.5  | 20.5 |
|     | R11TO54     | T54 | 619944   | 4765594 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 3285.2 | 64.6 | 0.0  | 81.3 | 0.0 | -0.3 | 0.0  | 0.0  | 5.8  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 17.9  | 17.9 |
|     | R11TO74     | T74 | 621655.8 | 4763002 | 314.65 | 179.65 | 0       | 104.8 | 104.8 | 1   | 3760.8 | 71.9 | 0.0  | 82.5 | 0.0 | -0.2 | 0.0  | 0.0  | 6.5  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 16.1  | 16.1 |
|     | R11TO34     | T34 | 626486   | 4764591 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 3866.1 | 63.3 | 0.0  | 82.8 | 0.0 | -0.2 | 0.0  | 0.0  | 6.6  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 15.7  | 15.7 |
|     | R11TO33     | T33 | 626968.7 | 4765950 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 3896.8 | 64.2 | 0.0  | 82.8 | 0.0 | -0.2 | 0.0  | 0.0  | 6.7  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 15.6  | 15.6 |
|     | R11TO36     | T36 | 622378.6 | 4763063 | 310    | 175    | 0       | 103.3 | 103.3 | 1   | 3485.2 | 70.2 | 0.0  | 81.8 | 0.0 | 0.0  | 0.0  | 0.0  | 6.1  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 15.4  | 15.4 |
|     | R11TO56     | T56 | 626599   | 4768825 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 4213.0 | 64.2 | 0.0  | 83.5 | 0.0 | -0.3 | 0.0  | 0.0  | 7.1  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 14.5  | 14.5 |
|     | R11TO02     | T02 | 627379.8 | 4765942 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 4305.4 | 64.2 | 0.0  | 83.7 | 0.0 | -0.3 | 0.0  | 0.0  | 7.2  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 14.3  | 14.3 |
|     | R11TO66     | T66 | 619127   | 4768529 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 4484.5 | 64.9 | 0.0  | 84.0 | 0.0 | -0.3 | 0.0  | 0.0  | 7.4  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 13.7  | 13.7 |
|     | R11TO35     | T35 | 627163.5 | 4764483 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 4516.7 | 63.4 | 0.0  | 84.1 | 0.0 | -0.3 | 0.0  | 0.0  | 7.5  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 13.6  | 13.6 |
|     | R11TO04     | T04 | 627524.4 | 4767740 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 4596.7 | 64.2 | 0.0  | 84.3 | 0.0 | -0.4 | 0.0  | 0.0  | 7.5  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 13.4  | 13.4 |
|     | R11TO85     | T85 | 619135.8 | 4769108 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 4770.8 | 64.4 | 0.0  | 84.6 | 0.0 | -0.4 | 0.0  | 0.0  | 7.8  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 12.9  | 12.9 |
|     | R11TO93     | T93 | 618324   | 4767127 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 4830.9 | 64.2 | 0.0  | 84.7 | 0.0 | -0.4 | 0.0  | 0.0  | 7.8  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 12.7  | 12.7 |
|     | R11TO94K    | T94 | 618752.1 | 4768764 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 4925.6 | 64.6 | 0.0  | 84.9 | 0.0 | -0.4 | 0.0  | 0.0  | 7.9  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 12.4  | 12.4 |
|     | R11TO07     | T07 | 618635.6 | 4764053 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 5084.9 | 65.1 | 0.0  | 85.1 | 0.0 | -0.4 | 0.0  | 0.0  | 8.1  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 12.0  | 12.0 |
|     | R11TO58     | T58 | 628473   | 4767629 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 5489.9 | 64.3 | 0.0  | 85.8 | 0.0 | -0.5 | 0.0  | 0.0  | 8.6  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 10.9  | 10.9 |
|     | R11TS09a    | T95 | 622816.6 | 4760851 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 5626.7 | 68.4 | 0.0  | 86.0 | 0.0 | -0.5 | 0.0  | 0.0  | 8.8  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 10.5  | 10.5 |
|     | R11TO78     | T78 | 628581   | 4764783 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 5727.5 | 62.6 | 0.0  | 86.2 | 0.0 | -0.5 | 0.0  | 0.0  | 8.9  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 10.3  | 10.3 |
|     | Transform   | ST1 | 621959.7 | 4761728 | 182.29 | 178.59 | 0       | 103.2 | 103.2 | 1   | 4878.1 | 8.1  | 0.0  | 84.8 | 0.0 | 0.2  | 3.6  | 0.0  | 9.3  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 5.3   | 5.3  |
|     | R11TO97     | T97 | 617214.7 | 4765642 | 306.94 | 182.94 | 0       | 104.8 | 104.8 | 1   | 5952.6 | 65.8 | 0.0  | 86.5 | 0.0 | -0.5 | 0.0  | 0.0  | 9.1  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 9.7   | 9.7  |
|     | R11TO39R    | T39 | 617348.6 | 4764279 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 6163.1 | 65.8 | 0.0  | 86.8 | 0.0 | -0.5 | 0.0  | 0.0  | 9.3  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 9.2   | 9.2  |
|     | R11TO29     | T29 | 628498   | 4763100 | 303.09 | 179.09 | 0       | 104.8 | 104.8 | 1   | 6356.7 | 64.7 | 0.0  | 87.1 | 0.0 | -0.5 | 0.0  | 0.0  | 9.5  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 8.7   | 8.7  |
|     | R11TO81a    | T81 | 616342.8 | 4766967 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 6785.0 | 64.3 | 0.0  | 87.6 | 0.0 | -0.6 | 0.0  | 0.0  | 10.0 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 7.8   | 7.8  |
|     | R11TO59     | T59 | 629964   | 4767676 | 308.03 | 184.03 | 0       | 104.8 | 104.8 | 1   | 6962.1 | 64.6 | 0.0  | 87.9 | 0.0 | -0.6 | 0.0  | 0.0  | 10.2 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 7.4   | 7.4  |
|     | R11TO18     | T18 | 630122.5 | 4766229 | 320    | 185    | 0       | 104.8 | 104.8 | 1   | 7019.4 | 70.1 | 0.0  | 87.9 | 0.0 | -0.5 | 0.0  | 0.0  | 10.2 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 7.2   | 7.2  |
|     | R11TO51     | T51 | 617020.3 | 4762752 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 7134.1 | 65.9 | 0.0  | 88.1 | 0.0 | -0.6 | 0.0  | 0.0  | 10.3 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 7.0   | 7.0  |
|     | R11TO60     | T60 | 630277.4 | 4767682 | 320    | 185    | 0       | 104.8 | 104.8 | 1   | 7272.1 | 70.6 | 0.0  | 88.2 | 0.0 | -0.6 | 0.0  | 0.0  | 10.5 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 6.7   | 6.7  |
|     | R11TO03     | T03 | 629891.2 | 4763588 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 7370.4 | 64.6 | 0.0  | 88.4 | 0.0 | -0.6 | 0.0  | 0.0  | 10.6 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 6.5   | 6.5  |
|     | R11TO09r    | T09 | 616789.8 | 4762576 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 7422.4 | 65.9 | 0.0  | 88.4 | 0.0 | -0.6 | 0.0  | 0.0  | 10.6 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 6.4   | 6.4  |
|     | R11TO10     | T10 | 623259.5 | 4758990 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 7481.3 | 66.3 | 0.0  | 88.5 | 0.0 | -0.6 | 0.0  | 0.0  | 10.7 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 6.3   | 6.3  |
|     | R11TO37     | T37 | 623038.4 | 4758881 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 7589.1 | 66.3 | 0.0  | 88.6 | 0.0 | -0.6 | 0.0  | 0.0  | 10.8 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 6.1   | 6.1  |
|     | R11TO83     | T83 | 615821   | 4770715 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 8435.1 | 63.2 | 0.0  | 89.5 | 0.0 | -0.7 | 0.0  | 0.0  | 11.6 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 4.5   | 4.5  |
|     | R11TO88     | T88 | 615815.6 | 4771059 | 309.9  | 185.9  | 0       | 104.8 | 104.8 | 1   | 8617.9 | 61.5 | 0.0  | 89.7 | 0.0 | -0.7 | 0.0  | 0.0  | 11.7 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 4.1   | 4.1  |
|     | R11TO08     | T08 | 614544.5 | 4764911 | 304.73 | 180.73 | 0       | 104.8 | 104.8 | 1   | 8705.2 | 65.5 | 0.0  | 89.8 | 0.0 | -0.7 | 0.0  | 0.0  | 11.8 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 4.0   | 4.0  |
|     | R11TO52     | T52 | 614214.8 | 4766531 | 309.65 | 185.65 | 0       | 104.8 | 104.8 | 1   | 8894.6 | 65.0 | 0.0  | 90.0 | 0.0 | -0.8 | 0.0  | 0.0  | 12.0 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 3.6   | 3.6  |
|     | R11TO79     | T79 | 630384   | 4771637 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 8925.0 | 62.4 | 0.0  | 90.0 | 0.0 | -0.8 | 0.0  | 0.0  | 12.0 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 3.6   | 3.6  |
|     | R11TO80     | T80 | 630185.7 | 4771984 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 8973.0 | 62.3 | 0.0  | 90.1 | 0.0 | -0.8 | 0.0  | 0.0  | 12.0 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0 | 0.0 | 0.0   | 3.5   | 3.5  |
|     | R11TO72     | T72 | 620828   | 4757122 | 301.26 | 177.26 | 0       | 104.8 | 104.8 | 1   | 9621.8 | 66.6 | 0.0  | 90.7 | 0.0 | -0.8 | 0.0  | -0.8 | 12.6 | 0.0  | 0.0   | 0.0</ |       |     |     |       |       |      |

|            |        |          |         |        |        |   |       |       |   |         |      |     |      |     |      |     |      |      |     |     |     |     |     |       |       |
|------------|--------|----------|---------|--------|--------|---|-------|-------|---|---------|------|-----|------|-----|------|-----|------|------|-----|-----|-----|-----|-----|-------|-------|
| R11TO12    | T12    | 621135.3 | 4756407 | 299.2  | 175.2  | 0 | 104.8 | 104.8 | 1 | 10254.2 | 66.3 | 0.0 | 91.2 | 0.0 | -0.9 | 0.0 | 0.0  | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4   | 1.4   |
| R11TO53    | T53    | 614455.8 | 4766402 | 320    | 185    | 0 | 103.3 | 103.3 | 1 | 8653.9  | 70.3 | 0.0 | 89.7 | 0.0 | -0.8 | 0.0 | 0.0  | 10.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3   | 4.3   |
| R11TO91    | T91    | 620503.9 | 4756521 | 299.05 | 175.05 | 0 | 104.8 | 104.8 | 1 | 10284.0 | 65.7 | 0.0 | 91.2 | 0.0 | -0.9 | 0.0 | 0.0  | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4   | 1.4   |
| R11TO13    | T13    | 621410   | 4756122 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 10486.0 | 66.8 | 0.0 | 91.4 | 0.0 | -0.9 | 0.0 | 0.0  | 13.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1   | 1.1   |
| R11TO19    | T19    | 620379.6 | 4755516 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 11288.2 | 65.9 | 0.0 | 92.1 | 0.0 | -1.0 | 0.0 | -0.5 | 13.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1  | -0.1  |
| R11TO65    | T65    | 622983.8 | 4754679 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 11791.2 | 66.9 | 0.0 | 92.4 | 0.0 | -1.1 | 0.0 | 0.0  | 14.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.7  | -0.7  |
| R11TO82    | T82    | 618390   | 4754915 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 12480.8 | 67.1 | 0.0 | 92.9 | 0.0 | -1.2 | 0.0 | 0.0  | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.6  | -1.6  |
| R11TO84    | T84    | 622487.1 | 4753393 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 13091.5 | 69.5 | 0.0 | 93.3 | 0.0 | -1.3 | 0.0 | 0.0  | 15.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.3  | -2.3  |
| R11TO42    | T42    | 619935   | 4753628 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 13227.8 | 68.4 | 0.0 | 93.4 | 0.0 | -1.3 | 0.0 | -0.4 | 15.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.5  | -2.5  |
| R11TO89    | T89    | 623216.4 | 4753160 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 13310.0 | 69.3 | 0.0 | 93.5 | 0.0 | -1.3 | 0.0 | 0.0  | 15.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.6  | -2.6  |
| Transform  | ST2    | 622836.6 | 4754679 | 178.7  | 175    | 0 | 103.2 | 103.2 | 1 | 11793.5 | 6.9  | 0.0 | 92.4 | 0.0 | 1.8  | 2.4 | 0.0  | 16.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -10.3 | -10.3 |
| R11TO98    | T98    | 617981.7 | 4753043 | 302.44 | 178.44 | 0 | 104.8 | 104.8 | 1 | 14372.4 | 68.3 | 0.0 | 94.2 | 0.0 | -1.4 | 0.0 | 0.0  | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.8  | -3.8  |
| Rosa Flora | RFT    | 615270   | 4756417 | 250    | 175    | 0 | 103.5 | 103.5 | 1 | 12747.0 | 42.8 | 0.0 | 93.1 | 0.0 | -1.9 | 0.0 | 0.0  | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6   | 0.6   |
| R11TO62    | T62    | 621876.7 | 4751311 | 301.01 | 177.01 | 0 | 104.8 | 104.8 | 1 | 15208.4 | 67.8 | 0.0 | 94.6 | 0.0 | -1.6 | 0.0 | 0.0  | 16.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.6  | -4.6  |
| R11TO63    | T63    | 621609.3 | 4751032 | 300.37 | 176.37 | 0 | 104.8 | 104.8 | 1 | 15509.7 | 67.5 | 0.0 | 94.8 | 0.0 | -1.6 | 0.0 | 0.0  | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.9  | -4.9  |
| R11TS13    | si T96 | 621422.7 | 4750668 | 299.47 | 175.47 | 0 | 104.8 | 104.8 | 1 | 15890.7 | 67.0 | 0.0 | 95.0 | 0.0 | -1.7 | 0.0 | 0.0  | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.2  | -5.2  |
| R11TO24    | T24    | 627752.2 | 4750239 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 16881.7 | 67.8 | 0.0 | 95.6 | 0.0 | -1.8 | 0.0 | 0.0  | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.1  | -6.1  |
| WF01(Wai)  | WF01   | 631359   | 4751252 | 270.12 | 175.12 | 0 | 105   | 105   | 1 | 17309.9 | 53.0 | 0.0 | 95.8 | 0.0 | -3.0 | 0.0 | 0.0  | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.0  | -5.0  |
| R11TO16    | T16    | 624153   | 4749243 | 300.29 | 176.29 | 0 | 104.8 | 104.8 | 1 | 17258.0 | 67.7 | 0.0 | 95.7 | 0.0 | -1.9 | 0.0 | 0.0  | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.4  | -6.4  |
| R11TO48    | T48    | 624687   | 4749283 | 300.42 | 176.42 | 0 | 104.8 | 104.8 | 1 | 17258.9 | 67.9 | 0.0 | 95.7 | 0.0 | -1.9 | 0.0 | 0.0  | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.4  | -6.4  |
| R11TO20    | T20    | 620627.3 | 4749341 | 300.55 | 176.55 | 0 | 104.8 | 104.8 | 1 | 17306.7 | 67.2 | 0.0 | 95.8 | 0.0 | -1.9 | 0.0 | 0.0  | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.5  | -6.5  |
| WF02(Wai)  | WF02   | 631758   | 4750750 | 270.92 | 175.92 | 0 | 105   | 105   | 1 | 17941.8 | 53.4 | 0.0 | 96.1 | 0.0 | -3.1 | 0.0 | 0.0  | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.5  | -5.5  |
| R11TO43    | T43    | 624815.3 | 4748952 | 301.14 | 177.14 | 0 | 104.8 | 104.8 | 1 | 17600.2 | 68.2 | 0.0 | 95.9 | 0.0 | -1.9 | 0.0 | 0.0  | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.7  | -6.7  |
| R11TO99    | T99    | 619207.8 | 4749224 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 17681.3 | 65.9 | 0.0 | 96.0 | 0.0 | -1.9 | 0.0 | 0.0  | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.8  | -6.8  |
| R11TO14    | T14    | 624137   | 4748807 | 301.05 | 177.05 | 0 | 104.8 | 104.8 | 1 | 17692.2 | 68.1 | 0.0 | 96.0 | 0.0 | -1.9 | 0.0 | 0.0  | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.8  | -6.8  |
| R11TO45    | T45    | 623160   | 4748650 | 313.11 | 178.11 | 0 | 104.8 | 104.8 | 1 | 17819.0 | 74.0 | 0.0 | 96.0 | 0.0 | -1.9 | 0.0 | 0.0  | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.9  | -6.9  |
| WF03(Wai)  | WF03   | 631921   | 4750541 | 271.25 | 176.25 | 0 | 105   | 105   | 1 | 18203.5 | 53.5 | 0.0 | 96.2 | 0.0 | -3.1 | 0.0 | 0.0  | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.7  | -5.7  |
| HAF05(HAI) | HAF05  | 606208   | 4773395 | 285.94 | 190.94 | 0 | 105   | 105   | 1 | 18264.8 | 46.4 | 0.0 | 96.2 | 0.0 | -3.1 | 0.0 | 0.0  | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.7  | -5.7  |
| R11TO49    | T49    | 626835.9 | 4748915 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 17945.6 | 67.2 | 0.0 | 96.1 | 0.0 | -2.0 | 0.0 | 0.0  | 17.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.0  | -7.0  |
| R11TO47    | T47    | 622482.9 | 4748447 | 314.34 | 179.34 | 0 | 104.8 | 104.8 | 1 | 18033.3 | 74.5 | 0.0 | 96.1 | 0.0 | -2.0 | 0.0 | 0.0  | 17.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.1  | -7.1  |
| R11TO44    | T44    | 624350   | 4748471 | 301.84 | 177.84 | 0 | 104.8 | 104.8 | 1 | 18041.1 | 68.5 | 0.0 | 96.1 | 0.0 | -2.0 | 0.0 | 0.0  | 17.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.1  | -7.1  |
| R11TO22    | T22    | 624829.2 | 4748510 | 302.04 | 178.04 | 0 | 104.8 | 104.8 | 1 | 18041.6 | 68.7 | 0.0 | 96.1 | 0.0 | -2.0 | 0.0 | 0.0  | 17.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.1  | -7.1  |
| R11TO23    | T23    | 627539.7 | 4748974 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 18047.5 | 67.5 | 0.0 | 96.1 | 0.0 | -2.0 | 0.0 | 0.0  | 17.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.1  | -7.1  |
| R11TO21    | T21    | 625004   | 4748242 | 302.63 | 178.63 | 0 | 104.8 | 104.8 | 1 | 18325.6 | 68.9 | 0.0 | 96.3 | 0.0 | -2.0 | 0.0 | 0.0  | 17.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.3  | -7.3  |
| HAF03(HAI) | HAF03  | 606276   | 4774896 | 285.99 | 190.99 | 0 | 105   | 105   | 1 | 18824.3 | 46.4 | 0.0 | 96.5 | 0.0 | -3.2 | 0.0 | 0.0  | 17.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.1  | -6.1  |
| R11TO61    | T61    | 625177   | 4747970 | 302.9  | 178.9  | 0 | 104.8 | 104.8 | 1 | 18614.6 | 69.0 | 0.0 | 96.4 | 0.0 | -2.1 | 0.0 | 0.0  | 18.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.5  | -7.5  |
| R11TO05    | T05    | 621171   | 4747754 | 303.78 | 179.78 | 0 | 104.8 | 104.8 | 1 | 18815.3 | 69.2 | 0.0 | 96.5 | 0.0 | -2.1 | 0.0 | 0.0  | 18.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.7  | -7.7  |
| R11TO46    | T46    | 622737   | 4748968 | 313    | 178    | 0 | 103.3 | 103.3 | 1 | 17505.7 | 73.9 | 0.0 | 95.9 | 0.0 | -2.1 | 0.0 | -1.1 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.3  | -4.3  |
| Mohawk05   | MH05   | 623047   | 4746843 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 19626.2 | 47.2 | 0.0 | 96.9 | 0.0 | -0.6 | 0.0 | 0.0  | 35.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.4 | -29.4 |
| Mohawk04   | MH04   | 623297   | 4746604 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 19866.0 | 47.2 | 0.0 | 97.0 | 0.0 | -0.6 | 0.0 | 0.0  | 35.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.7 | -29.7 |
| Mohawk02   | MH02   | 622632   | 4746480 | 260.44 | 180.44 | 0 | 102.1 | 102.1 | 1 | 19994.8 | 47.3 | 0.0 | 97.0 | 0.0 | -0.6 | 0.0 | -0.3 | 35.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.8 | -29.8 |

Limit. Valu 40 40  
Level D/N: 39.9804 39.9804

Receiver: SE6 Allen  
ID: O\_2160  
X: 624776.5  
Y: 4765059  
Z: 184.5  
Ground: 180

| ISO     | Bezeichnung | ID | X        | Y       | Z      | Ground | RefIOrd | LxT   | LxN   | L/A | Dist.  | hm   | Freq | Adiv | KOb | Agr  | Abar | z   | Aatm | Afol | Ahous | Cmet | CmetN | Dc  | RL  | LtotT | LtotN |
|---------|-------------|----|----------|---------|--------|--------|---------|-------|-------|-----|--------|------|------|------|-----|------|------|-----|------|------|-------|------|-------|-----|-----|-------|-------|
| R11TO32 | T32         |    | 624780.5 | 4764410 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 659.6  | 63.2 | 0.0  | 67.4 | 0.0 | -0.5 | 0.0  | 0.0 | 1.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 36.4  | 36.4  |
| R11TO31 | T31         |    | 625150   | 4765821 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 858.1  | 63.8 | 0.0  | 69.7 | 0.0 | -0.5 | 0.0  | 0.0 | 1.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 33.7  | 33.7  |
| R11TO76 | T76         |    | 623639.9 | 4765719 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 1320.2 | 63.4 | 0.0  | 73.4 | 0.0 | -0.5 | 0.0  | 0.0 | 2.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 29.1  | 29.1  |
| R11TO55 | T55         |    | 623610.3 | 4764393 | 315    | 180    | 0       | 104.8 | 104.8 | 1   | 1348.8 | 69.4 | 0.0  | 73.6 | 0.0 | -0.5 | 0.0  | 0.0 | 2.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 28.8  | 28.8  |
| R11TO34 | T34         |    | 626486   | 4764591 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 1776.2 | 63.6 | 0.0  | 76.0 | 0.0 | -0.4 | 0.0  | 0.0 | 3.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 25.7  | 25.7  |
| R11TO01 | T01         |    | 622985.8 | 4765745 | 306.25 | 182.25 | 0       | 104.8 | 104.8 | 1   | 1921.8 | 64.9 | 0.0  | 76.7 | 0.0 | -0.4 | 0.0  | 0.0 | 3.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 24.7  | 24.7  |
| R11TO33 | T33         |    | 626968.7 | 4765950 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2370.0 | 63.6 | 0.0  | 78.5 | 0.0 | -0.4 | 0.0  | 0.0 | 4.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 22.2  | 22.2  |
| R11TO35 | T35         |    | 627163.5 | 4764483 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2458.3 | 63.8 | 0.0  | 78.8 | 0.0 | -0.4 | 0.0  | 0.0 | 4.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 21.7  | 21.7  |
| R11TO02 | T02         |    | 627379.8 | 4765942 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2752.0 | 63.7 | 0.0  | 79.8 | 0.0 | -0.3 | 0.0  | 0.0 | 5.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 20.3  | 20.3  |



|           |      |          |         |        |        |   |       |       |   |         |      |       |      |     |      |     |     |      |     |     |     |     |     |      |      |
|-----------|------|----------|---------|--------|--------|---|-------|-------|---|---------|------|-------|------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|------|------|
| R11TO06   | T06  | 623095.6 | 4767244 | 309.97 | 185.97 | 0 | 104.8 | 104.8 | 1 | 2760.4  | 63.1 | 0.0   | 79.8 | 0.0 | -0.3 | 0.0 | 0.0 | 5.1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.2 | 20.2 |
| R11TO75   | T75  | 621356.9 | 4764543 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 3460.4  | 64.2 | 0.0   | 81.8 | 0.0 | -0.3 | 0.0 | 0.0 | 6.1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.2 | 17.2 |
| R11TO57   | T57  | 624435.2 | 4768696 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 3655.6  | 62.3 | 0.0   | 82.3 | 0.0 | -0.3 | 0.0 | 0.0 | 6.3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.5 | 16.5 |
| R11TO36   | T36  | 622378.6 | 4763063 | 310    | 175    | 0 | 103.3 | 103.3 | 1 | 3122.0  | 69.4 | 0.0   | 80.9 | 0.0 | -0.1 | 0.0 | 0.0 | 5.7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.8 | 16.8 |
| R11TO74   | T74  | 621655.8 | 4763002 | 314.65 | 179.65 | 0 | 104.8 | 104.8 | 1 | 3739.5  | 71.6 | 0.0   | 82.5 | 0.0 | -0.3 | 0.0 | 0.0 | 6.5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.1 | 16.1 |
| R11TO78_  | T78  | 628581   | 4764783 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 3816.3  | 62.7 | 0.0   | 82.6 | 0.0 | -0.2 | 0.0 | 0.0 | 6.6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.9 | 15.9 |
| R11TO04   | T04  | 627524.4 | 4767740 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 3841.2  | 62.3 | 0.0   | 82.7 | 0.0 | -0.2 | 0.0 | 0.0 | 6.6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.8 | 15.8 |
| R11TO38   | T38  | 620669.2 | 4765752 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 4167.1  | 64.2 | 0.0   | 83.4 | 0.0 | -0.3 | 0.0 | 0.0 | 7.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.7 | 14.7 |
| R11TO56_  | T56  | 626599   | 4768825 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 4186.1  | 62.3 | 0.0   | 83.4 | 0.0 | -0.3 | 0.0 | 0.0 | 7.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.6 | 14.6 |
| R11TO29   | T29  | 628498   | 4763100 | 303.09 | 179.09 | 0 | 104.8 | 104.8 | 1 | 4206.8  | 64.2 | 0.0   | 83.5 | 0.0 | -0.3 | 0.0 | 0.0 | 7.1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.6 | 14.6 |
| R11TO27   | T27  | 622534.5 | 4768708 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 4285.1  | 63.2 | 0.0   | 83.6 | 0.0 | -0.3 | 0.0 | 0.0 | 7.2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.3 | 14.3 |
| R11TO58_  | T58  | 628473   | 4767629 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 4504.1  | 62.4 | 0.0   | 84.1 | 0.0 | -0.3 | 0.0 | 0.0 | 7.4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.6 | 13.6 |
| R11TO28   | T28  | 622516.5 | 4769096 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 4628.4  | 60.7 | 0.0   | 84.3 | 0.0 | -0.4 | 0.0 | 0.0 | 7.6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.3 | 13.3 |
| R11TS09aS | T95  | 622816.6 | 4760851 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 4643.1  | 68.2 | 0.0   | 84.3 | 0.0 | -0.4 | 0.0 | 0.0 | 7.6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 | 13.2 |
| R11TO54   | T54  | 619944   | 4765594 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 4863.6  | 64.2 | 0.0   | 84.7 | 0.0 | -0.4 | 0.0 | 0.0 | 7.9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.6 | 12.6 |
| Transform | ST1  | 621959.7 | 4761728 | 182.29 | 178.59 | 0 | 103.2 | 103.2 | 1 | 4362.0  | 6.7  | 0.0   | 83.8 | 0.0 | 0.0  | 3.7 | 0.0 | 8.6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1  | 7.1  |
| R11TO03   | T03  | 629891.2 | 4763588 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 5323.4  | 64.1 | 0.0   | 85.5 | 0.0 | -0.4 | 0.0 | 0.0 | 8.4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.3 | 11.3 |
| R11TO18   | T18  | 630122.5 | 4766229 | 320    | 185    | 0 | 104.8 | 104.8 | 1 | 5474.3  | 69.1 | 0.0   | 85.8 | 0.0 | -0.4 | 0.0 | 0.0 | 8.6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.9 | 10.9 |
| R11TO59   | T59  | 629964   | 4767676 | 308.03 | 184.03 | 0 | 104.8 | 104.8 | 1 | 5811.8  | 63.0 | 0.0   | 86.3 | 0.0 | -0.5 | 0.0 | 0.0 | 9.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.1 | 10.1 |
| R11TO60   | T60  | 630277.4 | 4767682 | 320    | 185    | 0 | 104.8 | 104.8 | 1 | 6096.1  | 68.7 | 0.0   | 86.7 | 0.0 | -0.5 | 0.0 | 0.0 | 9.3  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.3  | 9.3  |
| R11TO07   | T07  | 618635.6 | 4764053 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 6223.9  | 64.2 | 0.0   | 86.9 | 0.0 | -0.5 | 0.0 | 0.0 | 9.4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.1  | 9.1  |
| R11TO10   | T10  | 623259.5 | 4758990 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 6256.4  | 66.3 | 0.0   | 86.9 | 0.0 | -0.5 | 0.0 | 0.0 | 9.4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0  | 9.0  |
| R11TO37   | T37  | 623038.4 | 4758881 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 6418.4  | 66.0 | 0.0   | 87.2 | 0.0 | -0.5 | 0.0 | 0.0 | 9.6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6  | 8.6  |
| R11TO66_  | T66  | 619127   | 4768529 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 6631.6  | 64.2 | 0.0   | 87.4 | 0.0 | -0.6 | 0.0 | 0.0 | 9.8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.1  | 8.1  |
| R11TO93_  | T93  | 618324   | 4767127 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 6777.1  | 64.3 | 0.0   | 87.6 | 0.0 | -0.6 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8  | 7.8  |
| R11TO85   | T85  | 619135.8 | 4769108 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 6944.8  | 63.7 | 0.0   | 87.8 | 0.0 | -0.6 | 0.0 | 0.0 | 10.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4  | 7.4  |
| R11TO94K  | T94  | 618752.1 | 4768764 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 7074.1  | 63.9 | 0.0   | 88.0 | 0.0 | -0.6 | 0.0 | 0.0 | 10.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1  | 7.1  |
| R11TO39R  | T39  | 617348.6 | 4764279 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 7469.6  | 64.0 | 0.0   | 88.5 | 0.0 | -0.6 | 0.0 | 0.0 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3  | 6.3  |
| R11TO97   | T97  | 617214.7 | 4765642 | 306.94 | 182.94 | 0 | 104.8 | 104.8 | 1 | 7585.3  | 65.4 | 0.0   | 88.6 | 0.0 | -0.6 | 0.0 | 0.0 | 10.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.1  | 6.1  |
| R11TO51   | T51  | 617020.3 | 4762752 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 8092.8  | 64.9 | 0.0   | 89.2 | 0.0 | -0.7 | 0.0 | 0.0 | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.1  | 5.1  |
| R11TO09r  | T09  | 616789.8 | 4762576 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 8364.5  | 65.0 | 0.0   | 89.5 | 0.0 | -0.7 | 0.0 | 0.0 | 11.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6  | 4.6  |
| R11TO79   | T79  | 630384   | 4771637 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 8644.9  | 60.5 | 0.0   | 89.7 | 0.0 | -0.7 | 0.0 | 0.0 | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1  | 4.1  |
| R11TO81a  | T81  | 616342.8 | 4766967 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 8647.8  | 64.7 | 0.0   | 89.7 | 0.0 | -0.7 | 0.0 | 0.0 | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1  | 4.1  |
| R11TO80   | T80  | 630185.7 | 4771984 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 8788.3  | 60.4 | 0.0   | 89.9 | 0.0 | -0.8 | 0.0 | 0.0 | 11.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8  | 3.8  |
| R11TO72   | T72  | 620828   | 4757122 | 301.26 | 177.26 | 0 | 104.8 | 104.8 | 1 | 8865.2  | 65.4 | 0.0   | 90.0 | 0.0 | -0.8 | 0.0 | 0.0 | 11.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7  | 3.7  |
| R11TO41   | T41  | 620998   | 4756851 | 300.43 | 176.43 | 0 | 104.8 | 104.8 | 1 | 9036.3  | 65.4 | 0.0   | 90.1 | 0.0 | -0.8 | 0.0 | 0.0 | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4  | 3.4  |
| R11TO11   | T11  | 620836   | 4756609 | 299.87 | 175.87 | 0 | 104.8 | 104.8 | 1 | 9323.6  | 65.0 | 0.0   | 90.4 | 0.0 | -0.8 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9  | 2.9  |
| R11TO12   | T12  | 621135.3 | 4756407 | 299.2  | 175.2  | 0 | 104.8 | 104.8 | 1 | 9387.2  | 65.5 | 0.0   | 90.5 | 0.0 | -0.8 | 0.0 | 0.0 | 12.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8  | 2.8  |
| R11TO91   | T91  | 620503.9 | 4756521 | 299.05 | 175.05 | 0 | 104.8 | 104.8 | 1 | 9547.8  | 64.4 | 0.0   | 90.6 | 0.0 | -0.8 | 0.0 | 0.0 | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5  | 2.5  |
| R11TO13   | T13  | 621410   | 4756122 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 9550.3  | 66.0 | 0.0   | 90.6 | 0.0 | -0.8 | 0.0 | 0.0 | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5  | 2.5  |
| R11TO08   | T08  | 614544.5 | 4764911 | 304.73 | 180.73 | 0 | 104.8 | 104.8 | 1 | 10233.8 | 64.3 | 0.0   | 91.2 | 0.0 | -0.9 | 0.0 | 0.0 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5  | 1.5  |
| R11TO19_  | T19  | 620379.6 | 4755516 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 10507.3 | 64.9 | 0.0   | 91.4 | 0.0 | -0.9 | 0.0 | 0.0 | 13.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0  | 1.0  |
| R11TO65   | T65  | 622983.8 | 4754679 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 10533.9 | 66.2 | 0.0   | 91.5 | 0.0 | -0.9 | 0.0 | 0.0 | 13.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0  | 1.0  |
| R11TO83   | T83  | 615821   | 4770715 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 10593.1 | 62.1 | 0.0   | 91.5 | 0.0 | -0.9 | 0.0 | 0.0 | 13.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9  | 0.9  |
| R11TO52   | T52  | 614214.8 | 4766531 | 309.65 | 185.65 | 0 | 104.8 | 104.8 | 1 | 10664.5 | 65.3 | 0.0   | 91.6 | 0.0 | -1.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8  | 0.8  |
| R11TO88   | T88  | 615815.6 | 4771059 | 309.9  | 185.9  | 0 | 104.8 | 104.8 | 1 | 10785.1 | 60.3 | 0.0   | 91.7 | 0.0 | -1.0 | 0.0 | 0.0 | 13.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6  | 0.6  |
| R11TO84   | T84  | 622487.1 | 4753393 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 11888.9 | 68.6 | 0.0   | 92.5 | 0.0 | -1.1 | 0.0 | 0.0 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.9 | -0.9 |
| R11TO82   | T82  | 618390   | 4754915 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 11987.1 | 64.6 | 0.0   | 92.6 | 0.0 | -1.1 | 0.0 | 0.0 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.0 | -1.0 |
| R11TO89   | T89  | 623216.4 | 4753160 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 12001.1 | 68.4 | 0.0   | 92.6 | 0.0 | -1.1 | 0.0 | 0.0 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.0 | -1.0 |
| R11TO53   | T53  | 614455.8 | 4766402 | 320    | 185    | 0 | 103.3 | 103.3 | 1 | 10408.7 | 70.6 | 0.0   | 91.4 | 0.0 | -1.0 | 0.0 | 0.0 | 11.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0  | 2.0  |
| R11TO42   | T42  | 619935   | 4753628 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 12414.1 | 67.6 | 0.0   | 92.9 | 0.0 | -1.2 | 0.0 | 0.0 | 14.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.5 | -1.5 |
| Transform | ST2  | 622836.6 | 4754679 | 178.7  | 175    | 0 | 103.2 | 103.2 | 1 | 10559.7 | 6.2  | 0.0   | 91.5 | 0.0 | 1.6  | 2.5 | 0.0 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -8.2 | -8.2 |
| R11TO98   | IT98 | 617981.7 | 4753043 | 302.44 | 178.44 | 0 | 104.8 | 104.8 | 1 | 13804.6 | 65.9 | 0.0   | 93.8 | 0.0 | -1.4 | 0.0 | 0.0 | 15.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.1 | -3.1 |
| R11TO62   | T62  | 621876.7 | 4751311 | 301.01 | 177.01 | 0 | 104.8 | 104.8 | 1 | 14050.6 | 66.5 | 0.0</ |      |     |      |     |     |      |     |     |     |     |     |      |      |

|             |         |          |         |        |        |   |       |       |   |         |      |     |      |     |      |     |     |      |     |     |     |     |     |     |       |       |
|-------------|---------|----------|---------|--------|--------|---|-------|-------|---|---------|------|-----|------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-------|-------|
| R11TO16     | T16     | 624153   | 4749243 | 300.29 | 176.29 | 0 | 104.8 | 104.8 | 1 | 15828.3 | 65.6 | 0.0 | 95.0 | 0.0 | -1.7 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.2  | -5.2  |
| WF03(Wai    | WF03    | 631921   | 4750541 | 271.25 | 176.25 | 0 | 105   | 105   | 1 | 16180.5 | 51.5 | 0.0 | 95.2 | 0.0 | -2.8 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.1  | -4.1  |
| R11TO43     | T43     | 624815.3 | 4748952 | 301.14 | 177.14 | 0 | 104.8 | 104.8 | 1 | 16106.9 | 65.6 | 0.0 | 95.1 | 0.0 | -1.7 | 0.0 | 0.0 | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.4  | -5.4  |
| R11TO20     | T20     | 620627.3 | 4749341 | 300.55 | 176.55 | 0 | 104.8 | 104.8 | 1 | 16256.0 | 66.3 | 0.0 | 95.2 | 0.0 | -1.7 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.6  | -5.6  |
| R11TO14     | T14     | 624137   | 4748807 | 301.05 | 177.05 | 0 | 104.8 | 104.8 | 1 | 16264.5 | 66.0 | 0.0 | 95.2 | 0.0 | -1.7 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.6  | -5.6  |
| R11TO49     | T49     | 626835.9 | 4748915 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 16274.7 | 64.3 | 0.0 | 95.2 | 0.0 | -1.7 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.6  | -5.6  |
| R11TO23     | T23     | 627539.7 | 4748974 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 16320.3 | 64.7 | 0.0 | 95.3 | 0.0 | -1.7 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.6  | -5.6  |
| R11TO45     | T45     | 623160   | 4748650 | 313.11 | 178.11 | 0 | 104.8 | 104.8 | 1 | 16488.0 | 72.6 | 0.0 | 95.3 | 0.0 | -1.7 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.8  | -5.8  |
| R11TO22     | T22     | 624829.2 | 4748510 | 302.04 | 178.04 | 0 | 104.8 | 104.8 | 1 | 16549.0 | 66.0 | 0.0 | 95.4 | 0.0 | -1.8 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.8  | -5.8  |
| R11TO44     | T44     | 624350   | 4748471 | 301.84 | 177.84 | 0 | 104.8 | 104.8 | 1 | 16593.4 | 66.3 | 0.0 | 95.4 | 0.0 | -1.8 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.9  | -5.9  |
| R11TO47     | T47     | 622482.9 | 4748447 | 314.34 | 179.34 | 0 | 104.8 | 104.8 | 1 | 16769.7 | 73.1 | 0.0 | 95.5 | 0.0 | -1.8 | 0.0 | 0.0 | 17.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.1  | -6.1  |
| R11TO99     | T99     | 619207.8 | 4749224 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 16786.0 | 65.0 | 0.0 | 95.5 | 0.0 | -1.8 | 0.0 | 0.0 | 17.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.0  | -6.0  |
| R11TO21     | T21     | 625004   | 4748242 | 302.63 | 178.63 | 0 | 104.8 | 104.8 | 1 | 16818.5 | 66.2 | 0.0 | 95.5 | 0.0 | -1.8 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.1  | -6.1  |
| R11TO61     | T61     | 625177   | 4747970 | 302.9  | 178.9  | 0 | 104.8 | 104.8 | 1 | 17093.6 | 66.3 | 0.0 | 95.7 | 0.0 | -1.8 | 0.0 | 0.0 | 17.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.3  | -6.3  |
| R11TO05     | T05     | 621171   | 4747754 | 303.78 | 179.78 | 0 | 104.8 | 104.8 | 1 | 17676.5 | 67.8 | 0.0 | 96.0 | 0.0 | -1.9 | 0.0 | 0.0 | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.8  | -6.8  |
| WF05(Wai    | WF05    | 632706   | 4748817 | 272.08 | 177.08 | 0 | 105   | 105   | 1 | 18074.0 | 52.0 | 0.0 | 96.1 | 0.0 | -3.1 | 0.0 | 0.0 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.6  | -5.6  |
| WF04(Wai    | WF04    | 632750   | 4748389 | 273.81 | 178.81 | 0 | 105   | 105   | 1 | 18478.6 | 52.9 | 0.0 | 96.3 | 0.0 | -3.2 | 0.0 | 0.0 | 17.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.9  | -5.9  |
| SWT-2.221   | GREPT60 | 614680   | 4748176 | 282.59 | 183.09 | 0 | 105   | 105   | 1 | 19671.5 | 56.8 | 0.0 | 96.9 | 0.0 | -1.6 | 0.0 | 0.0 | 18.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -8.8  | -8.8  |
| R11TO46     | T46     | 622737   | 4748968 | 313    | 178    | 0 | 103.3 | 103.3 | 1 | 16220.2 | 72.6 | 0.0 | 95.2 | 0.0 | -1.9 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.4  | -3.4  |
| SWT-2.221   | GREPT57 | 614355   | 4748118 | 284.5  | 185    | 0 | 105   | 105   | 1 | 19889.7 | 57.9 | 0.0 | 97.0 | 0.0 | -1.6 | 0.0 | 0.0 | 18.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -8.9  | -8.9  |
| SWT-2.221   | GREPT61 | 614750   | 4747811 | 284.5  | 185    | 0 | 105   | 105   | 1 | 19950.4 | 57.3 | 0.0 | 97.0 | 0.0 | -1.6 | 0.0 | 0.0 | 18.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -9.0  | -9.0  |
| Mohawk0:    | MH05    | 623047   | 4746843 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 18297.6 | 45.7 | 0.0 | 96.3 | 0.0 | -0.5 | 0.0 | 0.0 | 34.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -27.9 | -27.9 |
| Mohawk0:    | MH04    | 623297   | 4746604 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 18513.9 | 45.5 | 0.0 | 96.4 | 0.0 | -0.5 | 0.0 | 0.0 | 34.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.2 | -28.2 |
| Mohawk0:    | MH02    | 622632   | 4746480 | 260.44 | 180.44 | 0 | 102.1 | 102.1 | 1 | 18702.0 | 45.8 | 0.0 | 96.4 | 0.0 | -0.6 | 0.0 | 0.0 | 34.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.4 | -28.4 |
| Mohawk0:    | MH03    | 623974   | 4745737 | 265.45 | 185.45 | 0 | 102.1 | 102.1 | 1 | 19338.3 | 47.7 | 0.0 | 96.7 | 0.0 | -0.6 | 0.0 | 0.0 | 35.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.1 | -29.1 |
| Mohawk0:    | MH06    | 622661   | 4745529 | 263.87 | 183.87 | 0 | 102.1 | 102.1 | 1 | 19643.9 | 47.3 | 0.0 | 96.9 | 0.0 | -0.6 | 0.0 | 0.0 | 35.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.4 | -29.4 |
| Mohawk0:    | MH01    | 623355   | 4745400 | 268.15 | 188.15 | 0 | 102.1 | 102.1 | 1 | 19710.0 | 49.2 | 0.0 | 96.9 | 0.0 | -0.6 | 0.0 | 0.0 | 35.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.5 | -29.5 |
| Limit. Valu |         | 40       |         | 40     |        |   |       |       |   |         |      |     |      |     |      |     |     |      |     |     |     |     |     |     |       |       |
| Level D/N:  |         | 40.044   |         | 40.044 |        |   |       |       |   |         |      |     |      |     |      |     |     |      |     |     |     |     |     |     |       |       |

Receiver: H2Vaughan1410  
ID: O\_2522  
X: 626354.1  
Y: 4765297  
Z: 185.24  
Ground: 180.74

| ISO     | Bezeichnung | ID | X        | Y       | Z      | Ground | RefIOrd | LxT   | LxN   | L/A | Dist.  | hm   | Freq | Adiv | KOb | Agr  | Abar | z   | Aatm | Afol | Ahaus | Cmet | CmetN | Dc  | RL  | LtotT | LtotN |
|---------|-------------|----|----------|---------|--------|--------|---------|-------|-------|-----|--------|------|------|------|-----|------|------|-----|------|------|-------|------|-------|-----|-----|-------|-------|
| R11TO34 | T34         |    | 626486   | 4764591 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 727.7  | 63.7 | 0.0  | 68.2 | 0.0 | -0.5 | 0.0  | 0.0 | 1.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 35.4  | 35.4  |
| R11TO33 | T33         |    | 626968.7 | 4765950 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 905.5  | 63.5 | 0.0  | 70.1 | 0.0 | -0.5 | 0.0  | 0.0 | 2.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 33.2  | 33.2  |
| R11TO35 | T35         |    | 627163.5 | 4764483 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 1154.1 | 64.2 | 0.0  | 72.2 | 0.0 | -0.5 | 0.0  | 0.0 | 2.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 30.6  | 30.6  |
| R11TO02 | T02         |    | 627379.8 | 4765942 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 1218.1 | 63.6 | 0.0  | 72.7 | 0.0 | -0.5 | 0.0  | 0.0 | 2.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 30.0  | 30.0  |
| R11TO31 | T31         |    | 625150   | 4765821 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 1318.9 | 62.9 | 0.0  | 73.4 | 0.0 | -0.5 | 0.0  | 0.0 | 2.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 29.1  | 29.1  |
| R11TO32 | T32         |    | 624780.5 | 4764410 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 1810.3 | 63.1 | 0.0  | 76.2 | 0.0 | -0.4 | 0.0  | 0.0 | 3.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 25.4  | 25.4  |
| R11TO78 | T78         |    | 628581   | 4764783 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2288.6 | 61.9 | 0.0  | 78.2 | 0.0 | -0.4 | 0.0  | 0.0 | 4.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 22.6  | 22.6  |
| R11TO04 | T04         |    | 627524.4 | 4767740 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2711.3 | 62.6 | 0.0  | 79.7 | 0.0 | -0.3 | 0.0  | 0.0 | 5.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 20.5  | 20.5  |
| R11TO76 | T76         |    | 623639.9 | 4765719 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2749.4 | 61.2 | 0.0  | 79.8 | 0.0 | -0.3 | 0.0  | 0.0 | 5.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 20.3  | 20.3  |
| R11TO55 | T55         |    | 623610.3 | 4764393 | 315    | 180    | 0       | 104.8 | 104.8 | 1   | 2891.6 | 69.0 | 0.0  | 80.2 | 0.0 | -0.3 | 0.0  | 0.0 | 5.3  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 19.6  | 19.6  |
| R11TO29 | T29         |    | 628498   | 4763100 | 303.09 | 179.09 | 0       | 104.8 | 104.8 | 1   | 3071.8 | 64.1 | 0.0  | 80.8 | 0.0 | -0.3 | 0.0  | 0.0 | 5.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 18.8  | 18.8  |
| R11TO58 | T58         |    | 628473   | 4767629 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 3153.3 | 62.8 | 0.0  | 81.0 | 0.0 | -0.3 | 0.0  | 0.0 | 5.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 18.5  | 18.5  |
| R11TO01 | T01         |    | 622985.8 | 4765745 | 306.25 | 182.25 | 0       | 104.8 | 104.8 | 1   | 3400.1 | 63.1 | 0.0  | 81.6 | 0.0 | -0.3 | 0.0  | 0.0 | 6.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 17.5  | 17.5  |
| R11TO56 | T56         |    | 626599   | 4768825 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 3538.6 | 62.4 | 0.0  | 82.0 | 0.0 | -0.3 | 0.0  | 0.0 | 6.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 16.9  | 16.9  |
| R11TO06 | T06         |    | 623095.6 | 4767244 | 309.97 | 185.97 | 0       | 104.8 | 104.8 | 1   | 3798.1 | 62.8 | 0.0  | 82.6 | 0.0 | -0.2 | 0.0  | 0.0 | 6.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.9  | 15.9  |
| R11TO18 | T18         |    | 630122.5 | 4766229 | 320    | 185    | 0       | 104.8 | 104.8 | 1   | 3884.3 | 69.1 | 0.0  | 82.8 | 0.0 | -0.2 | 0.0  | 0.0 | 6.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.6  | 15.6  |
| R11TO57 | T57         |    | 624435.2 | 4768696 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 3905.1 | 62.4 | 0.0  | 82.8 | 0.0 | -0.3 | 0.0  | 0.0 | 6.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.6  | 15.6  |
| R11TO03 | T03         |    | 629891.2 | 4763588 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 3930.4 | 64.1 | 0.0  | 82.9 | 0.0 | -0.3 | 0.0  | 0.0 | 6.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.5  | 15.5  |
| R11TO59 | T59         |    | 629964   | 4767676 | 308.03 | 184.03 | 0       | 104.8 | 104.8 | 1   | 4325.1 | 63.5 | 0.0  | 83.7 | 0.0 | -0.3 | 0.0  | 0.0 | 7.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 14.2  | 14.2  |
| R11TO60 | T60         |    | 630277.4 | 4767682 | 320    | 185    | 0       | 104.8 | 104.8 | 1   | 4593.4 | 69.0 | 0.0  | 84.2 | 0.0 | -0.3 | 0.0  | 0.0 | 7.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 13.3  | 13.3  |
| R11TO75 | T75         |    | 621356.9 | 4764543 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 5055.2 | 64.0 | 0.0  | 85.1 | 0.0 | -0.4 | 0.0  | 0.0 | 8.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 12.0  | 12.0  |
| R11TO27 | T27         |    | 622534.5 | 4768708 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 5122.5 | 63.6 | 0.0  | 85   |     |      |      |     |      |      |       |      |       |     |     |       |       |



|               |          |         |        |        |   |       |       |   |         |      |     |      |     |      |     |     |      |     |     |     |     |     |     |     |       |       |
|---------------|----------|---------|--------|--------|---|-------|-------|---|---------|------|-----|------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| R11TO99 ( T99 | 619207.8 | 4749224 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 17590.9 | 65.5 | 0.0 | 95.9 | 0.0 | -1.9 | 0.0 | 0.0 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.7  | -6.7  |
| WF04(Wai WF04 | 632750   | 4748389 | 273.81 | 178.81 | 0 | 105   | 105   | 1 | 18077.6 | 53.0 | 0.0 | 96.1 | 0.0 | -3.1 | 0.0 | 0.0 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.6  | -5.6  |
| R11TO05 T05   | 621171   | 4747754 | 303.78 | 179.78 | 0 | 104.8 | 104.8 | 1 | 18293.1 | 67.4 | 0.0 | 96.3 | 0.0 | -2.0 | 0.0 | 0.0 | 17.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.3  | -7.3  |
| R11TO46 T46   | 622737   | 4748968 | 313    | 178    | 0 | 103.3 | 103.3 | 1 | 16725.8 | 71.8 | 0.0 | 95.5 | 0.0 | -2.0 | 0.0 | 0.0 | 13.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.7  | -3.7  |
| Mohawk0: MH05 | 623047   | 4746843 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 18748.2 | 44.7 | 0.0 | 96.5 | 0.0 | -0.6 | 0.0 | 0.0 | 34.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.4 | -28.4 |
| Mohawk0: MH04 | 623297   | 4746604 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 18941.6 | 44.6 | 0.0 | 96.6 | 0.0 | -0.6 | 0.0 | 0.0 | 34.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.6 | -28.6 |
| Mohawk0: MH02 | 622632   | 4746480 | 260.44 | 180.44 | 0 | 102.1 | 102.1 | 1 | 19181.8 | 45.0 | 0.0 | 96.7 | 0.0 | -0.6 | 0.0 | 0.0 | 34.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.9 | -28.9 |
| Mohawk0: MH03 | 623974   | 4745737 | 265.45 | 185.45 | 0 | 102.1 | 102.1 | 1 | 19704.5 | 46.9 | 0.0 | 96.9 | 0.0 | -0.6 | 0.0 | 0.0 | 35.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.5 | -29.5 |

Limit. Valu 40 40

Level D/N: 39.9738 39.9738

Receiver: CHElcho1439

ID: O\_2598

X: 627059.7

Y: 4763919

Z: 184.5

Ground: 180

| ISO        | Bezeichnung | ID | X        | Y       | Z      | Ground | ReflOrd | LxT   | LxN   | L/A | Dist.  | hm   | Freq | Adiv | K0b | Agr  | Abar | z   | Aatm | Afol | Ahous | Cmet | CmetN | Dc  | RL  | LtotT | LtotN |
|------------|-------------|----|----------|---------|--------|--------|---------|-------|-------|-----|--------|------|------|------|-----|------|------|-----|------|------|-------|------|-------|-----|-----|-------|-------|
| R11TO35_   | T35         |    | 627163.5 | 4764483 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 585.5  | 62.9 | 0.0  | 66.4 | 0.0 | -0.5 | 0.0  | 0.0 | 1.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 37.6  | 37.6  |
| R11TO34    | T34         |    | 626486   | 4764591 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 891.6  | 63.7 | 0.0  | 70.0 | 0.0 | -0.5 | 0.0  | 0.0 | 2.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 33.3  | 33.3  |
| R11TO29    | T29         |    | 628498   | 4763100 | 303.09 | 179.09 | 0       | 104.8 | 104.8 | 1   | 1659.4 | 64.4 | 0.0  | 75.4 | 0.0 | -0.4 | 0.0  | 0.0 | 3.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 26.5  | 26.5  |
| R11TO78_   | T78         |    | 628581   | 4764783 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 1753.4 | 64.1 | 0.0  | 75.9 | 0.0 | -0.4 | 0.0  | 0.0 | 3.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 25.8  | 25.8  |
| R11TO33    | T33         |    | 626968.7 | 4765950 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2036.8 | 64.8 | 0.0  | 77.2 | 0.0 | -0.4 | 0.0  | 0.0 | 4.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 24.0  | 24.0  |
| R11TO02    | T02         |    | 627379.8 | 4765942 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2051.7 | 64.2 | 0.0  | 77.2 | 0.0 | -0.4 | 0.0  | 0.0 | 4.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 23.9  | 23.9  |
| R11TO32    | T32         |    | 624780.5 | 4764410 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2334.4 | 64.4 | 0.0  | 78.4 | 0.0 | -0.4 | 0.0  | 0.0 | 4.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 22.4  | 22.4  |
| R11TO31    | T31         |    | 625150   | 4765821 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2697.9 | 64.6 | 0.0  | 79.6 | 0.0 | -0.3 | 0.0  | 0.0 | 5.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 20.5  | 20.5  |
| R11TO03    | T03         |    | 629891.2 | 4763588 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2853.4 | 64.3 | 0.0  | 80.1 | 0.0 | -0.3 | 0.0  | 0.0 | 5.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 19.8  | 19.8  |
| R11TO55    | T55         |    | 623610.3 | 4764393 | 315    | 180    | 0       | 104.8 | 104.8 | 1   | 3484.2 | 70.3 | 0.0  | 81.8 | 0.0 | -0.3 | 0.0  | 0.0 | 6.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 17.1  | 17.1  |
| R11TO18    | T18         |    | 630122.5 | 4766229 | 320    | 185    | 0       | 104.8 | 104.8 | 1   | 3838.3 | 70.4 | 0.0  | 82.7 | 0.0 | -0.2 | 0.0  | 0.0 | 6.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.8  | 15.8  |
| R11TO04    | T04         |    | 627524.4 | 4767740 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 3850.5 | 63.1 | 0.0  | 82.7 | 0.0 | -0.2 | 0.0  | 0.0 | 6.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.7  | 15.7  |
| R11TO76    | T76         |    | 623639.9 | 4765719 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 3866.4 | 64.0 | 0.0  | 82.8 | 0.0 | -0.2 | 0.0  | 0.0 | 6.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.7  | 15.7  |
| R11TO58_   | T58         |    | 628473   | 4767629 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 3971.6 | 63.1 | 0.0  | 83.0 | 0.0 | -0.3 | 0.0  | 0.0 | 6.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 15.3  | 15.3  |
| R11TO01    | T01         |    | 622985.8 | 4765745 | 306.25 | 182.25 | 0       | 104.8 | 104.8 | 1   | 4466.0 | 65.2 | 0.0  | 84.0 | 0.0 | -0.3 | 0.0  | 0.0 | 7.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 13.8  | 13.8  |
| R11TO59    | T59         |    | 629964   | 4767676 | 308.03 | 184.03 | 0       | 104.8 | 104.8 | 1   | 4750.0 | 63.6 | 0.0  | 84.5 | 0.0 | -0.4 | 0.0  | 0.0 | 7.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 12.9  | 12.9  |
| R11TO56_   | T56         |    | 626599   | 4768825 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 4928.7 | 63.2 | 0.0  | 84.9 | 0.0 | -0.4 | 0.0  | 0.0 | 7.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 12.4  | 12.4  |
| R11TO60    | T60         |    | 630277.4 | 4767682 | 320    | 185    | 0       | 104.8 | 104.8 | 1   | 4952.8 | 69.2 | 0.0  | 84.9 | 0.0 | -0.3 | 0.0  | 0.0 | 8.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 12.3  | 12.3  |
| R11TO06    | T06         |    | 623095.6 | 4767244 | 309.97 | 185.97 | 0       | 104.8 | 104.8 | 1   | 5175.5 | 63.9 | 0.0  | 85.3 | 0.0 | -0.4 | 0.0  | 0.0 | 8.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 11.7  | 11.7  |
| R11TS09a:  | T95         |    | 622816.6 | 4760851 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 5237.7 | 69.3 | 0.0  | 85.4 | 0.0 | -0.4 | 0.0  | 0.0 | 8.3  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 11.5  | 11.5  |
| R11TO57    | T57         |    | 624435.2 | 4768696 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 5451.5 | 63.4 | 0.0  | 85.7 | 0.0 | -0.5 | 0.0  | 0.0 | 8.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 11.0  | 11.0  |
| R11TO74    | T74         |    | 621655.8 | 4763002 | 314.65 | 179.65 | 0       | 104.8 | 104.8 | 1   | 5482.7 | 72.4 | 0.0  | 85.8 | 0.0 | -0.4 | 0.0  | 0.0 | 8.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 10.8  | 10.8  |
| R11TO36    | T36         |    | 622378.6 | 4763063 | 310    | 175    | 0       | 103.3 | 103.3 | 1   | 4760.4 | 70.2 | 0.0  | 84.6 | 0.0 | -0.1 | 0.0  | 0.0 | 7.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 11.5  | 11.5  |
| R11TO75    | T75         |    | 621356.9 | 4764543 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 5738.0 | 65.0 | 0.0  | 86.2 | 0.0 | -0.5 | 0.0  | 0.0 | 8.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 10.2  | 10.2  |
| R11TO10    | T10         |    | 623259.5 | 4758990 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 6225.3 | 65.4 | 0.0  | 86.9 | 0.0 | -0.5 | 0.0  | 0.0 | 9.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 9.0   | 9.0   |
| R11TO37    | T37         |    | 623038.4 | 4758881 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 6447.5 | 65.5 | 0.0  | 87.2 | 0.0 | -0.5 | 0.0  | 0.0 | 9.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 8.5   | 8.5   |
| R11TO27    | T27         |    | 622534.5 | 4768708 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 6589.7 | 64.4 | 0.0  | 87.4 | 0.0 | -0.6 | 0.0  | 0.0 | 9.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 8.2   | 8.2   |
| R11TO38    | T38         |    | 620669.2 | 4765752 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 6649.1 | 64.3 | 0.0  | 87.5 | 0.0 | -0.6 | 0.0  | 0.0 | 9.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 8.1   | 8.1   |
| Transform: | ST1         |    | 621959.7 | 4761728 | 182.29 | 178.59 | 0       | 103.2 | 103.2 | 1   | 5550.9 | 9.5  | 0.0  | 85.9 | 0.0 | 0.4  | 3.5  | 0.0 | 10.2 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 3.2   | 3.2   |
| R11TO28    | T28         |    | 622516.5 | 4769096 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 6888.4 | 62.0 | 0.0  | 87.8 | 0.0 | -0.6 | 0.0  | 0.0 | 10.1 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 7.5   | 7.5   |
| R11TO54    | T54         |    | 619944   | 4765594 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 7311.1 | 64.3 | 0.0  | 88.3 | 0.0 | -0.6 | 0.0  | 0.0 | 10.5 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 6.6   | 6.6   |
| R11TO79    | T79         |    | 630384   | 4771637 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 8403.9 | 61.9 | 0.0  | 89.5 | 0.0 | -0.7 | 0.0  | 0.0 | 11.5 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 4.5   | 4.5   |
| R11TO07    | T07         |    | 618635.6 | 4764053 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 8426.0 | 65.9 | 0.0  | 89.5 | 0.0 | -0.7 | 0.0  | 0.0 | 11.5 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 4.5   | 4.5   |
| R11TO80    | T80         |    | 630185.7 | 4771984 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 8649.9 | 61.6 | 0.0  | 89.7 | 0.0 | -0.7 | 0.0  | 0.0 | 11.7 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 4.1   | 4.1   |
| R11TO66_   | T66         |    | 619127   | 4768529 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 9175.7 | 65.3 | 0.0  | 90.3 | 0.0 | -0.8 | 0.0  | 0.0 | 12.2 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 3.2   | 3.2   |
| R11TO72    | T72         |    | 620828   | 4757122 | 301.26 | 177.26 | 0       | 104.8 | 104.8 | 1   | 9222.4 | 67.1 | 0.0  | 90.3 | 0.0 | -0.8 | 0.0  | 0.0 | 12.2 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 3.1   | 3.1   |
| R11TO93_   | T93         |    | 618324   | 4767127 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 9306.8 | 65.3 | 0.0  | 90.4 | 0.0 | -0.8 | 0.0  | 0.0 | 12.3 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 2.9   | 2.9   |
| R11TO41    | T41         |    | 620998   | 4756851 | 300.43 | 176.43 | 0       | 104.8 | 104.8 | 1   | 9312.4 | 66.1 | 0.0  | 90.4 | 0.0 | -0.8 | 0.0  | 0.0 | 12.3 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 2.9   | 2.9   |
| R11TO85    | T85         |    | 619135.8 | 4769108 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 9472.3 | 64.4 | 0.0  | 90.5 | 0.0 | -0.8 | 0.0  | 0.0 | 12.4 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 2.7   | 2.7   |
| R11TO12    | T12         |    | 621135.3 | 4756407 | 299.2  | 175.2  | 0       | 104.8 | 104.8 | 1   | 9568.1 | 65.8 | 0.0  | 90.6 | 0.0 | -0.8 | 0.0  | 0.0 | 12.5 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 2.5   | 2.5   |
| R11TO11    | T11         |    | 620836   | 4756609 | 299.87 | 175.87 | 0       | 104.8 | 104.  |     |        |      |      |      |     |      |      |     |      |      |       |      |       |     |     |       |       |



|                |          |         |        |        |   |       |       |   |         |      |     |      |     |      |     |     |      |     |     |     |     |     |     |       |       |
|----------------|----------|---------|--------|--------|---|-------|-------|---|---------|------|-----|------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-------|-------|
| R11TO13 T13    | 621410   | 4756122 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 9629.8  | 65.8 | 0.0 | 90.7 | 0.0 | -0.8 | 0.0 | 0.0 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4   | 2.4   |
| R11TO39R T39   | 617348.6 | 4764279 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 9718.5  | 65.6 | 0.0 | 90.8 | 0.0 | -0.9 | 0.0 | 0.0 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3   | 2.3   |
| R11TO91 T91    | 620503.9 | 4756521 | 299.05 | 175.05 | 0 | 104.8 | 104.8 | 1 | 9885.9  | 65.5 | 0.0 | 90.9 | 0.0 | -0.9 | 0.0 | 0.0 | 12.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0   | 2.0   |
| R11TO97 T97    | 617214.7 | 4765642 | 306.94 | 182.94 | 0 | 104.8 | 104.8 | 1 | 9995.3  | 65.5 | 0.0 | 91.0 | 0.0 | -0.9 | 0.0 | 0.0 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8   | 1.8   |
| R11TO65 T65    | 622983.8 | 4754679 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 10100.2 | 64.8 | 0.0 | 91.1 | 0.0 | -0.9 | 0.0 | 0.0 | 13.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7   | 1.7   |
| R11TO51 T51    | 617020.3 | 4762752 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 10107.8 | 66.6 | 0.0 | 91.1 | 0.0 | -0.9 | 0.0 | 0.0 | 13.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6   | 1.6   |
| R11TO09r T09   | 616789.8 | 4762576 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 10358.1 | 66.7 | 0.0 | 91.3 | 0.0 | -0.9 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3   | 1.3   |
| R11TO19_ T19   | 620379.6 | 4755516 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 10735.6 | 65.8 | 0.0 | 91.6 | 0.0 | -1.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7   | 0.7   |
| R11TO81a T81   | 616342.8 | 4766967 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 11142.5 | 65.5 | 0.0 | 91.9 | 0.0 | -1.0 | 0.0 | 0.0 | 13.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1   | 0.1   |
| R11TO89 T89    | 623216.4 | 4753160 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 11426.0 | 66.6 | 0.0 | 92.2 | 0.0 | -1.0 | 0.0 | 0.0 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.3  | -0.3  |
| R11TO84 T84    | 622487.1 | 4753393 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 11477.6 | 67.2 | 0.0 | 92.2 | 0.0 | -1.1 | 0.0 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.3  | -0.3  |
| TransformST2   | 622836.6 | 4754679 | 178.7  | 175    | 0 | 103.2 | 103.2 | 1 | 10160.1 | 4.7  | 0.0 | 91.1 | 0.0 | 0.7  | 0.0 | 0.0 | 15.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.1  | -4.1  |
| R11TO82 T82    | 618390   | 4754915 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 12500.3 | 66.9 | 0.0 | 92.9 | 0.0 | -1.2 | 0.0 | 0.0 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.6  | -1.6  |
| R11TO42 T42    | 619935   | 4753628 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 12517.6 | 67.6 | 0.0 | 93.0 | 0.0 | -1.2 | 0.0 | 0.0 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.7  | -1.7  |
| R11TO08 T08    | 614544.5 | 4764911 | 304.73 | 180.73 | 0 | 104.8 | 104.8 | 1 | 12555.0 | 65.1 | 0.0 | 93.0 | 0.0 | -1.2 | 0.0 | 0.0 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.7  | -1.7  |
| R11TO52 T52    | 614214.8 | 4766531 | 309.65 | 185.65 | 0 | 104.8 | 104.8 | 1 | 13108.2 | 65.8 | 0.0 | 93.4 | 0.0 | -1.3 | 0.0 | 0.0 | 15.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.4  | -2.4  |
| WF01(Wai WF01  | 631359   | 4751252 | 270.12 | 175.12 | 0 | 105   | 105   | 1 | 13377.4 | 51.1 | 0.0 | 93.5 | 0.0 | -2.3 | 0.0 | 0.0 | 15.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.6  | -1.6  |
| R11TO83 T83    | 615821   | 4770715 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 13134.1 | 63.1 | 0.0 | 93.4 | 0.0 | -1.3 | 0.0 | 0.0 | 15.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.4  | -2.4  |
| R11TO88 T88    | 615815.6 | 4771059 | 309.9  | 185.9  | 0 | 104.8 | 104.8 | 1 | 13319.9 | 61.1 | 0.0 | 93.5 | 0.0 | -1.3 | 0.0 | 0.0 | 15.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.6  | -2.6  |
| R11TO62 T62    | 621876.7 | 4751311 | 301.01 | 177.01 | 0 | 104.8 | 104.8 | 1 | 13632.7 | 65.1 | 0.0 | 93.7 | 0.0 | -1.3 | 0.0 | 0.0 | 15.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.0  | -3.0  |
| R11TO24 T24    | 627752.2 | 4750239 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 13698.6 | 65.6 | 0.0 | 93.7 | 0.0 | -1.3 | 0.0 | 0.0 | 15.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.0  | -3.0  |
| WF02(Wai WF02  | 631758   | 4750750 | 270.92 | 175.92 | 0 | 105   | 105   | 1 | 13982.7 | 51.5 | 0.0 | 93.9 | 0.0 | -2.4 | 0.0 | 0.0 | 15.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.2  | -2.2  |
| WF03(Wai WF03  | 631921   | 4750541 | 271.25 | 176.25 | 0 | 105   | 105   | 1 | 14234.5 | 51.6 | 0.0 | 94.1 | 0.0 | -2.4 | 0.0 | 0.0 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.4  | -2.4  |
| R11TO63 T63    | 621609.3 | 4751032 | 300.37 | 176.37 | 0 | 104.8 | 104.8 | 1 | 13992.8 | 64.9 | 0.0 | 93.9 | 0.0 | -1.4 | 0.0 | 0.0 | 15.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.4  | -3.4  |
| R11TO98 T98    | 617981.7 | 4753043 | 302.44 | 178.44 | 0 | 104.8 | 104.8 | 1 | 14168.0 | 66.7 | 0.0 | 94.0 | 0.0 | -1.4 | 0.0 | 0.0 | 15.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.5  | -3.5  |
| R11TS13 si T96 | 621422.7 | 4750668 | 299.47 | 175.47 | 0 | 104.8 | 104.8 | 1 | 14400.8 | 64.5 | 0.0 | 94.2 | 0.0 | -1.4 | 0.0 | 0.0 | 15.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.8  | -3.8  |
| R11TO48 T48    | 624687   | 4749283 | 300.42 | 176.42 | 0 | 104.8 | 104.8 | 1 | 14828.2 | 65.1 | 0.0 | 94.4 | 0.0 | -1.5 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.2  | -4.2  |
| R11TO23 T23    | 627539.7 | 4748974 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 14953.3 | 65.6 | 0.0 | 94.5 | 0.0 | -1.5 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.3  | -4.3  |
| R11TO16 T16    | 624153   | 4749243 | 300.29 | 176.29 | 0 | 104.8 | 104.8 | 1 | 14962.0 | 64.8 | 0.0 | 94.5 | 0.0 | -1.5 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.4  | -4.4  |
| R11TO49 T49    | 626835.9 | 4748915 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 15006.5 | 65.4 | 0.0 | 94.5 | 0.0 | -1.5 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.4  | -4.4  |
| R11TO43 T43    | 624815.3 | 4748952 | 301.14 | 177.14 | 0 | 104.8 | 104.8 | 1 | 15135.2 | 65.6 | 0.0 | 94.6 | 0.0 | -1.6 | 0.0 | 0.0 | 16.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.5  | -4.5  |
| R11TO53 T53    | 614455.8 | 4766402 | 320    | 185    | 0 | 103.3 | 103.3 | 1 | 12846.9 | 71.1 | 0.0 | 93.2 | 0.0 | -1.4 | 0.0 | 0.0 | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.5  | -0.5  |
| R11TO14 T14    | 624137   | 4748807 | 301.05 | 177.05 | 0 | 104.8 | 104.8 | 1 | 15392.9 | 65.3 | 0.0 | 94.8 | 0.0 | -1.6 | 0.0 | 0.0 | 16.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.8  | -4.8  |
| R11TO22 T22    | 624829.2 | 4748510 | 302.04 | 178.04 | 0 | 104.8 | 104.8 | 1 | 15570.5 | 66.1 | 0.0 | 94.9 | 0.0 | -1.6 | 0.0 | 0.0 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.9  | -4.9  |
| R11TO44 T44    | 624350   | 4748471 | 301.84 | 177.84 | 0 | 104.8 | 104.8 | 1 | 15684.7 | 65.7 | 0.0 | 94.9 | 0.0 | -1.6 | 0.0 | 0.0 | 16.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.1  | -5.1  |
| R11TO45 T45    | 623160   | 4748650 | 313.11 | 178.11 | 0 | 104.8 | 104.8 | 1 | 15759.7 | 71.2 | 0.0 | 95.0 | 0.0 | -1.6 | 0.0 | 0.0 | 16.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.2  | -5.2  |
| WF05(Wai WF05  | 632706   | 4748817 | 272.08 | 177.08 | 0 | 105   | 105   | 1 | 16123.6 | 52.0 | 0.0 | 95.2 | 0.0 | -2.8 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.1  | -4.1  |
| R11TO21 T21    | 625004   | 4748242 | 302.63 | 178.63 | 0 | 104.8 | 104.8 | 1 | 15812.1 | 66.4 | 0.0 | 95.0 | 0.0 | -1.7 | 0.0 | 0.0 | 16.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.2  | -5.2  |
| R11TO20 T20    | 620627.3 | 4749341 | 300.55 | 176.55 | 0 | 104.8 | 104.8 | 1 | 15934.6 | 65.4 | 0.0 | 95.1 | 0.0 | -1.7 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.3  | -5.3  |
| R11TO61 T61    | 625177   | 4747970 | 302.9  | 178.9  | 0 | 104.8 | 104.8 | 1 | 16060.6 | 66.7 | 0.0 | 95.1 | 0.0 | -1.7 | 0.0 | 0.0 | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.4  | -5.4  |
| R11TO47 T47    | 622482.9 | 4748447 | 314.34 | 179.34 | 0 | 104.8 | 104.8 | 1 | 16135.8 | 71.7 | 0.0 | 95.2 | 0.0 | -1.7 | 0.0 | 0.0 | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.5  | -5.5  |
| Rosa Flora RFT | 615270   | 4756417 | 250    | 175    | 0 | 103.5 | 103.5 | 1 | 13974.6 | 41.7 | 0.0 | 93.9 | 0.0 | -2.0 | 0.0 | 0.0 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.5  | -0.5  |
| WF04(Wai WF04  | 632750   | 4748389 | 273.81 | 178.81 | 0 | 105   | 105   | 1 | 16540.3 | 52.9 | 0.0 | 95.4 | 0.0 | -2.8 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.4  | -4.4  |
| R11TO99 T99    | 619207.8 | 4749224 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 16662.3 | 64.6 | 0.0 | 95.4 | 0.0 | -1.8 | 0.0 | 0.0 | 17.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.9  | -5.9  |
| R11TO05 T05    | 621171   | 4747754 | 303.78 | 179.78 | 0 | 104.8 | 104.8 | 1 | 17205.0 | 66.5 | 0.0 | 95.7 | 0.0 | -1.9 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.4  | -6.4  |
| R11TO46 T46    | 622737   | 4748968 | 313    | 178    | 0 | 103.3 | 103.3 | 1 | 15564.7 | 71.1 | 0.0 | 94.8 | 0.0 | -1.8 | 0.0 | 0.0 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.9  | -2.9  |
| Mohawk0 MH05   | 623047   | 4746843 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 17541.7 | 44.5 | 0.0 | 95.9 | 0.0 | -0.5 | 0.0 | 0.0 | 33.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -27.0 | -27.0 |
| Mohawk0 MH04   | 623297   | 4746604 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 17719.7 | 44.5 | 0.0 | 96.0 | 0.0 | -0.5 | 0.0 | 0.0 | 33.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -27.2 | -27.2 |
| Mohawk0 MH02   | 622632   | 4746480 | 260.44 | 180.44 | 0 | 102.1 | 102.1 | 1 | 17992.9 | 44.7 | 0.0 | 96.1 | 0.0 | -0.5 | 0.0 | 0.0 | 34.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -27.5 | -27.5 |
| Mohawk0 MH03   | 623974   | 4745737 | 265.45 | 185.45 | 0 | 102.1 | 102.1 | 1 | 18442.6 | 47.0 | 0.0 | 96.3 | 0.0 | -0.5 | 0.0 | 0.0 | 34.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.1 | -28.1 |
| Mohawk0 MH01   | 623355   | 4745400 | 268.15 | 188.15 | 0 | 102.1 | 102.1 | 1 | 18886.5 | 48.2 | 0.0 | 96.5 | 0.0 | -0.6 | 0.0 | 0.0 | 34.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.6 | -28.6 |
| Mohawk0 MH06   | 622661   | 4745529 | 263.87 | 183.87 | 0 | 102.1 | 102.1 | 1 | 18909.3 | 46.2 | 0.0 | 96.5 | 0.0 | -0.6 | 0.0 | 0.0 | 34.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.6 | -28.6 |

Limit. Valu 40 40  
Level D/N: 40.0289 40.0289

| ISO | Bezeichnung | ID  | X        | Y       | Z      | Ground | RefIOrd | LxT   | LxN   | L/A | Dist.   | hm   | Freq | Adiv | K0b | Agr  | Abar | z   | Aatm | Afol | Ahous | Cmet | CmetN | Dc  | RL  | LtotT | LtotN |      |
|-----|-------------|-----|----------|---------|--------|--------|---------|-------|-------|-----|---------|------|------|------|-----|------|------|-----|------|------|-------|------|-------|-----|-----|-------|-------|------|
|     | R11TO35_    | T35 | 627163.5 | 4764483 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 737.3   | 63.9 | 0.0  | 68.4 | 0.0 | -0.5 | 0.0  | 0.0 | 1.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 35.3  | 35.3  |      |
|     | R11TO78_    | T78 | 628581   | 4764783 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 917.9   | 63.3 | 0.0  | 70.3 | 0.0 | -0.5 | 0.0  | 0.0 | 2.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 33.0  | 33.0 |
|     | R11TO02     | T02 | 627379.8 | 4765942 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 1015.6  | 63.5 | 0.0  | 71.1 | 0.0 | -0.5 | 0.0  | 0.0 | 2.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 31.9  | 31.9 |
|     | R11TO33     | T33 | 626968.7 | 4765950 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 1213.9  | 63.6 | 0.0  | 72.7 | 0.0 | -0.5 | 0.0  | 0.0 | 2.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 30.0  | 30.0 |
|     | R11TO34     | T34 | 626486   | 4764591 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 1274.0  | 64.7 | 0.0  | 73.1 | 0.0 | -0.5 | 0.0  | 0.0 | 2.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 29.5  | 29.5 |
|     | R11TO29     | T29 | 628498   | 4763100 | 303.09 | 179.09 | 0       | 104.8 | 104.8 | 1   | 2051.1  | 65.4 | 0.0  | 77.2 | 0.0 | -0.4 | 0.0  | 0.0 | 4.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 24.0  | 24.0 |
|     | R11TO03     | T03 | 629891.2 | 4763588 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2606.8  | 65.7 | 0.0  | 79.3 | 0.0 | -0.3 | 0.0  | 0.0 | 4.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 21.0  | 21.0 |
|     | R11TO31     | T31 | 625150   | 4765821 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2679.8  | 65.2 | 0.0  | 79.6 | 0.0 | -0.3 | 0.0  | 0.0 | 5.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 20.6  | 20.6 |
|     | R11TO18     | T18 | 630122.5 | 4766229 | 320    | 185    | 0       | 104.8 | 104.8 | 1   | 2733.5  | 70.8 | 0.0  | 79.7 | 0.0 | -0.3 | 0.0  | 0.0 | 5.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 20.4  | 20.4 |
|     | R11TO58_    | T58 | 628473   | 4767629 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2760.8  | 64.0 | 0.0  | 79.8 | 0.0 | -0.3 | 0.0  | 0.0 | 5.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 20.2  | 20.2 |
|     | R11TO04     | T04 | 627524.4 | 4767740 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2764.0  | 63.9 | 0.0  | 79.8 | 0.0 | -0.3 | 0.0  | 0.0 | 5.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 20.2  | 20.2 |
|     | R11TO32     | T32 | 624780.5 | 4764410 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2970.4  | 65.6 | 0.0  | 80.5 | 0.0 | -0.3 | 0.0  | 0.0 | 5.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 19.3  | 19.3 |
|     | R11TO59     | T59 | 629964   | 4767676 | 308.03 | 184.03 | 0       | 104.8 | 104.8 | 1   | 3524.7  | 64.8 | 0.0  | 81.9 | 0.0 | -0.3 | 0.0  | 0.0 | 6.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 17.0  | 17.0 |
|     | R11TO60     | T60 | 630277.4 | 4767682 | 320    | 185    | 0       | 104.8 | 104.8 | 1   | 3739.1  | 70.4 | 0.0  | 82.5 | 0.0 | -0.3 | 0.0  | 0.0 | 6.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 16.1  | 16.1 |
|     | R11TO56_    | T56 | 626599   | 4768825 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 3996.0  | 63.9 | 0.0  | 83.0 | 0.0 | -0.3 | 0.0  | 0.0 | 6.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 15.2  | 15.2 |
|     | R11TO76     | T76 | 623639.9 | 4765719 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 4120.7  | 63.6 | 0.0  | 83.3 | 0.0 | -0.3 | 0.0  | 0.0 | 7.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 14.8  | 14.8 |
|     | R11TO55     | T55 | 623610.3 | 4764393 | 315    | 180    | 0       | 104.8 | 104.8 | 1   | 4126.7  | 71.3 | 0.0  | 83.3 | 0.0 | -0.2 | 0.0  | 0.0 | 7.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 14.8  | 14.8 |
|     | R11TO01     | T01 | 622985.8 | 4765745 | 306.25 | 182.25 | 0       | 104.8 | 104.8 | 1   | 4769.7  | 65.3 | 0.0  | 84.6 | 0.0 | -0.4 | 0.0  | 0.0 | 7.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 12.9  | 12.9 |
|     | R11TO57     | T57 | 624435.2 | 4768696 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 4940.5  | 63.9 | 0.0  | 84.9 | 0.0 | -0.4 | 0.0  | 0.0 | 8.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 12.4  | 12.4 |
|     | R11TO06     | T06 | 623095.6 | 4767244 | 309.97 | 185.97 | 0       | 104.8 | 104.8 | 1   | 5124.5  | 64.7 | 0.0  | 85.2 | 0.0 | -0.4 | 0.0  | 0.0 | 8.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 11.9  | 11.9 |
|     | R11TO75     | T75 | 621356.9 | 4764543 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 6352.2  | 65.8 | 0.0  | 87.1 | 0.0 | -0.5 | 0.0  | 0.0 | 9.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.7   | 8.7  |
|     | R11TO74     | T74 | 621655.8 | 4763002 | 314.65 | 179.65 | 0       | 104.8 | 104.8 | 1   | 6354.9  | 73.4 | 0.0  | 87.1 | 0.0 | -0.5 | 0.0  | 0.0 | 9.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.7   | 8.7  |
|     | R11TO27     | T27 | 622534.5 | 4768708 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 6363.6  | 65.7 | 0.0  | 87.1 | 0.0 | -0.5 | 0.0  | 0.0 | 9.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.7   | 8.7  |
|     | R11TS09a    | T95 | 622816.6 | 4760851 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 6392.7  | 69.5 | 0.0  | 87.1 | 0.0 | -0.5 | 0.0  | 0.0 | 9.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.7   | 8.7  |
|     | R11TO28     | T28 | 622516.5 | 4769096 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 6612.0  | 63.2 | 0.0  | 87.4 | 0.0 | -0.6 | 0.0  | 0.0 | 9.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.2   | 8.2  |
|     | R11TO36     | T36 | 622378.6 | 4763063 | 310    | 175    | 0       | 103.3 | 103.3 | 1   | 5651.7  | 70.9 | 0.0  | 86.0 | 0.0 | -0.3 | 0.0  | 0.0 | 8.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 9.4   | 9.4  |
|     | R11TO38     | T38 | 620669.2 | 4765752 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 7066.4  | 65.4 | 0.0  | 88.0 | 0.0 | -0.6 | 0.0  | 0.0 | 10.3 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 7.2   | 7.2  |
|     | R11TO79     | T79 | 630384   | 4771637 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 7178.2  | 64.3 | 0.0  | 88.1 | 0.0 | -0.6 | 0.0  | 0.0 | 10.4 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 6.9   | 6.9  |
|     | R11TO80     | T80 | 630185.7 | 4771984 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 7432.0  | 63.6 | 0.0  | 88.4 | 0.0 | -0.6 | 0.0  | 0.0 | 10.6 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 6.4   | 6.4  |
|     | R11TO10     | T10 | 623259.5 | 4758990 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 7455.7  | 66.9 | 0.0  | 88.5 | 0.0 | -0.6 | 0.0  | 0.0 | 10.7 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 6.3   | 6.3  |
|     | R11TO37     | T37 | 623038.4 | 4758881 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 7675.6  | 67.3 | 0.0  | 88.7 | 0.0 | -0.7 | 0.0  | 0.0 | 10.9 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 5.9   | 5.9  |
|     | R11TO54     | T54 | 619944   | 4765594 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 7773.6  | 65.7 | 0.0  | 88.8 | 0.0 | -0.7 | 0.0  | 0.0 | 11.0 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 5.7   | 5.7  |
|     | Transform   | ST1 | 621959.7 | 4761728 | 182.29 | 178.59 | 0       | 103.2 | 103.2 | 1   | 6592.8  | 9.2  | 0.0  | 87.4 | 0.0 | 0.7  | 3.3  | 0.0 | 11.6 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 0.3   | 0.3  |
|     | R11TO07     | T07 | 618635.6 | 4764053 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 9105.5  | 66.1 | 0.0  | 90.2 | 0.0 | -0.8 | 0.0  | 0.0 | 12.1 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 3.3   | 3.3  |
|     | R11TO66_    | T66 | 619127   | 4768529 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 9271.4  | 65.7 | 0.0  | 90.3 | 0.0 | -0.8 | 0.0  | 0.0 | 12.3 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 3.0   | 3.0  |
|     | R11TO85     | T85 | 619135.8 | 4769108 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 9499.8  | 65.0 | 0.0  | 90.6 | 0.0 | -0.8 | 0.0  | 0.0 | 12.5 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 2.6   | 2.6  |
|     | R11TO93_    | T93 | 618324   | 4767127 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 9611.6  | 64.9 | 0.0  | 90.7 | 0.0 | -0.8 | 0.0  | 0.0 | 12.6 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 2.4   | 2.4  |
|     | R11TO94K    | T94 | 618752.1 | 4768764 | 314    | 190    | 0       | 104.8 | 104.8 | 1   | 9708.0  | 65.4 | 0.0  | 90.7 | 0.0 | -0.8 | 0.0  | 0.0 | 12.6 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 2.3   | 2.3  |
|     | R11TO39R    | T39 | 617348.6 | 4764279 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 10368.7 | 66.0 | 0.0  | 91.3 | 0.0 | -0.9 | 0.0  | 0.0 | 13.2 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 1.3   | 1.3  |
|     | R11TO72     | T72 | 620828   | 4757122 | 301.26 | 177.26 | 0       | 104.8 | 104.8 | 1   | 10437.4 | 68.7 | 0.0  | 91.4 | 0.0 | -0.9 | 0.0  | 0.0 | 13.2 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 1.2   | 1.2  |
|     | R11TO97     | T97 | 617214.7 | 4765642 | 306.94 | 182.94 | 0       | 104.8 | 104.8 | 1   | 10499.4 | 67.1 | 0.0  | 91.4 | 0.0 | -0.9 | 0.0  | 0.0 | 13.3 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 1.1   | 1.1  |
|     | R11TO41     | T41 | 620998   | 4756851 | 300.43 | 176.43 | 0       | 104.8 | 104.8 | 1   | 10534.2 | 69.7 | 0.0  | 91.5 | 0.0 | -0.9 | 0.0  | 0.0 | 13.3 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 1.0   | 1.0  |
|     | R11TO12     | T12 | 621135.3 | 4756407 | 299.2  | 175.2  | 0       | 104.8 | 104.8 | 1   | 10796.6 | 67.7 | 0.0  | 91.7 | 0.0 | -1.0 | 0.0  | 0.0 | 13.5 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 0.6   | 0.6  |
|     | R11TO11     | T11 | 620836   | 4756609 | 299.87 | 175.87 | 0       | 104.8 | 104.8 | 1   | 10823.7 | 69.3 | 0.0  | 91.7 | 0.0 | -1.0 | 0.0  | 0.0 | 13.5 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 0.6   | 0.6  |
|     | R11TO13     | T13 | 621410   | 4756122 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 10863.2 | 67.5 | 0.0  | 91.7 | 0.0 | -1.0 | 0.0  | 0.0 | 13.5 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 0.5   | 0.5  |
|     | R11TO51     | T51 | 617020.3 | 4762752 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 10903.9 | 67.7 | 0.0  | 91.8 | 0.0 | -1.0 | 0.0  | 0.0 | 13.6 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 0.5   | 0.5  |
|     | R11TO91     | T91 | 620503.9 | 4756521 | 299.05 | 175.05 | 0       | 104.8 | 104.8 | 1   | 11104.4 | 68.4 | 0.0  | 91.9 | 0.0 | -1.0 | 0.0  | 0.0 | 13.7 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 0.2   | 0.2  |
|     | R11TO09r    | T09 | 616789.8 | 4762576 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 11166.1 | 67.8 | 0.0  | 92.0 | 0.0 | -1.0 | 0.0  | 0.0 | 13.8 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 0.1   | 0.1  |
|     | R11TO65     | T65 | 622983.8 | 4754679 | 299    | 175    | 0       | 104.8 | 104.8 | 1   | 11330.0 | 66.5 |      |      |     |      |      |     |      |      |       |      |       |     |     |       |       |      |

|            |        |          |         |        |        |   |       |       |   |         |      |     |      |     |      |     |     |      |     |     |     |     |     |     |     |       |       |
|------------|--------|----------|---------|--------|--------|---|-------|-------|---|---------|------|-----|------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| R11TO42    | T42    | 619935   | 4753628 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 13752.9 | 69.5 | 0.0 | 93.8 | 0.0 | -1.4 | 0.0 | 0.0 | 15.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.1  | -3.1  |
| WF01(Wai   | WF01   | 631359   | 4751252 | 270.12 | 175.12 | 0 | 105   | 105   | 1 | 14212.7 | 52.9 | 0.0 | 94.1 | 0.0 | -2.4 | 0.0 | 0.0 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.4  | -2.4  |
| WF02(Wai   | WF02   | 631758   | 4750750 | 270.92 | 175.92 | 0 | 105   | 105   | 1 | 14802.8 | 53.3 | 0.0 | 94.4 | 0.0 | -2.5 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.0  | -3.0  |
| R11TO24    | T24    | 627752.2 | 4750239 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 14745.1 | 67.3 | 0.0 | 94.4 | 0.0 | -1.5 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.1  | -4.1  |
| WF03(Wai   | WF03   | 631921   | 4750541 | 271.25 | 176.25 | 0 | 105   | 105   | 1 | 15048.9 | 53.5 | 0.0 | 94.6 | 0.0 | -2.6 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.2  | -3.2  |
| R11TO62    | T62    | 621876.7 | 4751311 | 301.01 | 177.01 | 0 | 104.8 | 104.8 | 1 | 14858.6 | 67.0 | 0.0 | 94.4 | 0.0 | -1.5 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.2  | -4.2  |
| R11TO63    | T63    | 621609.3 | 4751032 | 300.37 | 176.37 | 0 | 104.8 | 104.8 | 1 | 15220.2 | 66.8 | 0.0 | 94.7 | 0.0 | -1.6 | 0.0 | 0.0 | 16.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.6  | -4.6  |
| R11TO98    | IT98   | 617981.7 | 4753043 | 302.44 | 178.44 | 0 | 104.8 | 104.8 | 1 | 15391.6 | 69.6 | 0.0 | 94.8 | 0.0 | -1.6 | 0.0 | 0.0 | 16.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.8  | -4.8  |
| R11TS13    | si T96 | 621422.7 | 4750668 | 299.47 | 175.47 | 0 | 104.8 | 104.8 | 1 | 15628.5 | 66.4 | 0.0 | 94.9 | 0.0 | -1.6 | 0.0 | 0.0 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.0  | -5.0  |
| R11TO53    | T53    | 614455.8 | 4766402 | 320    | 185    | 0 | 103.3 | 103.3 | 1 | 13313.4 | 72.5 | 0.0 | 93.5 | 0.0 | -1.5 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.9  | -0.9  |
| R11TO48    | T48    | 624687   | 4749283 | 300.42 | 176.42 | 0 | 104.8 | 104.8 | 1 | 15986.2 | 67.4 | 0.0 | 95.1 | 0.0 | -1.7 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.3  | -5.3  |
| R11TO23    | T23    | 627539.7 | 4748974 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 16010.3 | 67.4 | 0.0 | 95.1 | 0.0 | -1.7 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.4  | -5.4  |
| R11TO49    | T49    | 626835.9 | 4748915 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 16091.6 | 67.3 | 0.0 | 95.1 | 0.0 | -1.7 | 0.0 | 0.0 | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.4  | -5.4  |
| R11TO16    | T16    | 624153   | 4749243 | 300.29 | 176.29 | 0 | 104.8 | 104.8 | 1 | 16134.0 | 67.0 | 0.0 | 95.2 | 0.0 | -1.7 | 0.0 | 0.0 | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.5  | -5.5  |
| R11TO43    | T43    | 624815.3 | 4748952 | 301.14 | 177.14 | 0 | 104.8 | 104.8 | 1 | 16288.0 | 67.8 | 0.0 | 95.2 | 0.0 | -1.7 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.6  | -5.6  |
| R11TO14    | T14    | 624137   | 4748807 | 301.05 | 177.05 | 0 | 104.8 | 104.8 | 1 | 16563.0 | 67.5 | 0.0 | 95.4 | 0.0 | -1.8 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.8  | -5.8  |
| WF05(Wai   | WF05   | 632706   | 4748817 | 272.08 | 177.08 | 0 | 105   | 105   | 1 | 16926.1 | 53.8 | 0.0 | 95.6 | 0.0 | -2.9 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.7  | -4.7  |
| R11TO22    | T22    | 624829.2 | 4748510 | 302.04 | 178.04 | 0 | 104.8 | 104.8 | 1 | 16720.9 | 68.3 | 0.0 | 95.5 | 0.0 | -1.8 | 0.0 | 0.0 | 17.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.0  | -6.0  |
| R11TO44    | T44    | 624350   | 4748471 | 301.84 | 177.84 | 0 | 104.8 | 104.8 | 1 | 16847.8 | 68.0 | 0.0 | 95.5 | 0.0 | -1.8 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.1  | -6.1  |
| R11TO45    | T45    | 623160   | 4748650 | 313.11 | 178.11 | 0 | 104.8 | 104.8 | 1 | 16950.8 | 73.3 | 0.0 | 95.6 | 0.0 | -1.8 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.2  | -6.2  |
| R11TO21    | T21    | 625004   | 4748242 | 302.63 | 178.63 | 0 | 104.8 | 104.8 | 1 | 16956.4 | 68.6 | 0.0 | 95.6 | 0.0 | -1.8 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.2  | -6.2  |
| WF04(Wai   | WF04   | 632750   | 4748389 | 273.81 | 178.81 | 0 | 105   | 105   | 1 | 17348.2 | 54.7 | 0.0 | 95.8 | 0.0 | -3.0 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.0  | -5.0  |
| R11TO20    | T20    | 620627.3 | 4749341 | 300.55 | 176.55 | 0 | 104.8 | 104.8 | 1 | 17164.2 | 67.2 | 0.0 | 95.7 | 0.0 | -1.9 | 0.0 | 0.0 | 17.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.4  | -6.4  |
| R11TO61    | T61    | 625177   | 4747970 | 302.9  | 178.9  | 0 | 104.8 | 104.8 | 1 | 17198.8 | 68.8 | 0.0 | 95.7 | 0.0 | -1.9 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.4  | -6.4  |
| R11TO47    | T47    | 622482.9 | 4748447 | 314.34 | 179.34 | 0 | 104.8 | 104.8 | 1 | 17338.2 | 73.8 | 0.0 | 95.8 | 0.0 | -1.8 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.6  | -6.6  |
| Rosa Flora | RFT    | 615270   | 4756417 | 250    | 175    | 0 | 103.5 | 103.5 | 1 | 15090.1 | 43.4 | 0.0 | 94.6 | 0.0 | -2.2 | 0.0 | 0.0 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.4  | -1.4  |
| R11TO99    | ( T99  | 619207.8 | 4749224 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 17899.1 | 66.5 | 0.0 | 96.1 | 0.0 | -2.0 | 0.0 | 0.0 | 17.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.0  | -7.0  |
| R11TO05    | T05    | 621171   | 4747754 | 303.78 | 179.78 | 0 | 104.8 | 104.8 | 1 | 18422.8 | 68.5 | 0.0 | 96.3 | 0.0 | -2.1 | 0.0 | 0.0 | 17.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.4  | -7.4  |
| R11TO46    | T46    | 622737   | 4748968 | 313    | 178    | 0 | 103.3 | 103.3 | 1 | 16765.5 | 73.1 | 0.0 | 95.5 | 0.0 | -2.0 | 0.0 | 0.0 | 13.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.8  | -3.8  |
| Mohawk05   | MH05   | 623047   | 4746843 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 18726.0 | 46.6 | 0.0 | 96.5 | 0.0 | -0.6 | 0.0 | 0.0 | 34.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.4 | -28.4 |
| Mohawk04   | MH04   | 623297   | 4746604 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 18897.9 | 46.7 | 0.0 | 96.5 | 0.0 | -0.6 | 0.0 | 0.0 | 34.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.6 | -28.6 |
| Mohawk02   | MH02   | 622632   | 4746480 | 260.44 | 180.44 | 0 | 102.1 | 102.1 | 1 | 19183.2 | 46.7 | 0.0 | 96.7 | 0.0 | -0.6 | 0.0 | 0.0 | 34.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -28.9 | -28.9 |
| Mohawk03   | MH03   | 623974   | 4745737 | 265.45 | 185.45 | 0 | 102.1 | 102.1 | 1 | 19602.6 | 49.4 | 0.0 | 96.9 | 0.0 | -0.6 | 0.0 | 0.0 | 35.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.4 | -29.4 |

Limit. Valu 40 40  
Level D/N: 40.0224 40.0224

Receiver: H2Vaughan2317  
ID: O\_2710  
X: 627899.1  
Y: 4765540  
Z: 189.5  
Ground: 185

| ISO     | Bezeichnu | ID | X        | Y       | Z      | Ground | ReflOrd | LxT   | LxN   | L/A | Dist.  | hm   | Freq | Adiv | K0b | Agr  | Abar | z   | Aatm | Afol | Ahous | Cmet | CmetN | Dc  | RL  | LtotT | LtotN |      |
|---------|-----------|----|----------|---------|--------|--------|---------|-------|-------|-----|--------|------|------|------|-----|------|------|-----|------|------|-------|------|-------|-----|-----|-------|-------|------|
| R11TO02 | T02       |    | 627379.8 | 4765942 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 667.4  | 63.2 | 0.0  | 67.5 | 0.0 | -0.5 | 0.0  | 0.0 | 1.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 36.3  | 36.3 |
| R11TO33 | T33       |    | 626968.7 | 4765950 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 1023.7 | 63.8 | 0.0  | 71.2 | 0.0 | -0.5 | 0.0  | 0.0 | 2.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 31.9  | 31.9 |
| R11TO78 | T78       |    | 628581   | 4764783 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 1025.5 | 62.7 | 0.0  | 71.2 | 0.0 | -0.5 | 0.0  | 0.0 | 2.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 31.8  | 31.8 |
| R11TO35 | T35       |    | 627163.5 | 4764483 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 1293.0 | 63.1 | 0.0  | 73.2 | 0.0 | -0.5 | 0.0  | 0.0 | 2.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 29.3  | 29.3 |
| R11TO34 | T34       |    | 626486   | 4764591 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 1706.0 | 63.7 | 0.0  | 75.6 | 0.0 | -0.4 | 0.0  | 0.0 | 3.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 26.1  | 26.1 |
| R11TO58 | T58       |    | 628473   | 4767629 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2169.4 | 64.4 | 0.0  | 77.7 | 0.0 | -0.4 | 0.0  | 0.0 | 4.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 23.3  | 23.3 |
| R11TO04 | T04       |    | 627524.4 | 4767740 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2234.3 | 64.2 | 0.0  | 78.0 | 0.0 | -0.4 | 0.0  | 0.0 | 4.3  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 22.9  | 22.9 |
| R11TO18 | T18       |    | 630122.5 | 4766229 | 320    | 185    | 0       | 104.8 | 104.8 | 1   | 2331.3 | 71.0 | 0.0  | 78.4 | 0.0 | -0.4 | 0.0  | 0.0 | 4.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 22.4  | 22.4 |
| R11TO29 | T29       |    | 628498   | 4763100 | 303.09 | 179.09 | 0       | 104.8 | 104.8 | 1   | 2514.8 | 64.7 | 0.0  | 79.0 | 0.0 | -0.4 | 0.0  | 0.0 | 4.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 21.4  | 21.4 |
| R11TO31 | T31       |    | 625150   | 4765821 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 2766.0 | 64.6 | 0.0  | 79.8 | 0.0 | -0.3 | 0.0  | 0.0 | 5.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 20.2  | 20.2 |
| R11TO03 | T03       |    | 629891.2 | 4763588 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 2792.0 | 65.4 | 0.0  | 79.9 | 0.0 | -0.3 | 0.0  | 0.0 | 5.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 20.1  | 20.1 |
| R11TO59 | T59       |    | 629964   | 4767676 | 308.03 | 184.03 | 0       | 104.8 | 104.8 | 1   | 2973.1 | 65.3 | 0.0  | 80.5 | 0.0 | -0.3 | 0.0  | 0.0 | 5.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 19.3  | 19.3 |
| R11TO60 | T60       |    | 630277.4 | 4767682 | 320    | 185    | 0       | 104.8 | 104.8 | 1   | 3203.3 | 70.7 | 0.0  | 81.1 | 0.0 | -0.3 | 0.0  | 0.0 | 5.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 18.3  | 18.3 |
| R11TO32 | T32       |    | 624780.5 | 4764410 | 304    | 180    | 0       | 104.8 | 104.8 | 1   | 3319.1 | 65.2 | 0.0  | 81.4 | 0.0 | -0.3 | 0.0  | 0.0 | 5.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 17.8  | 17.8 |
| R11TO56 | T56       |    | 626599   | 4768825 | 309    | 185    | 0       | 104.8 | 104.8 | 1   | 3534.7 | 64.2 | 0.0  | 82.0 | 0.0 | -0.3 | 0.0  | 0.0 | 6.2  | 0.0  | 0.0   | 0.0  | 0.0</ |     |     |       |       |      |

|           |        |          |         |        |        |   |       |       |   |         |      |     |      |     |      |     |     |      |     |     |     |     |     |      |      |
|-----------|--------|----------|---------|--------|--------|---|-------|-------|---|---------|------|-----|------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|------|------|
| R11TO57   | T57    | 624435.2 | 4768696 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 4687.4  | 64.2 | 0.0 | 84.4 | 0.0 | -0.4 | 0.0 | 0.0 | 7.7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.1 | 13.1 |
| R11TO01   | T01    | 622985.8 | 4765745 | 306.25 | 182.25 | 0 | 104.8 | 104.8 | 1 | 4919.0  | 64.0 | 0.0 | 84.8 | 0.0 | -0.4 | 0.0 | 0.0 | 7.9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.4 | 12.4 |
| R11TO06   | T06    | 623095.6 | 4767244 | 309.97 | 185.97 | 0 | 104.8 | 104.8 | 1 | 5098.3  | 64.6 | 0.0 | 85.2 | 0.0 | -0.4 | 0.0 | 0.0 | 8.1  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.9 | 11.9 |
| R11TO27   | T27    | 622534.5 | 4768708 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 6231.3  | 65.8 | 0.0 | 86.9 | 0.0 | -0.5 | 0.0 | 0.0 | 9.4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0  | 9.0  |
| R11TO28   | T28    | 622516.5 | 4769096 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 6452.0  | 63.5 | 0.0 | 87.2 | 0.0 | -0.5 | 0.0 | 0.0 | 9.6  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.5  | 8.5  |
| R11TO79   | T79    | 630384   | 4771637 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 6584.7  | 64.8 | 0.0 | 87.4 | 0.0 | -0.6 | 0.0 | 0.0 | 9.8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.2  | 8.2  |
| R11TO75   | T75    | 621356.9 | 4764543 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 6618.8  | 65.5 | 0.0 | 87.4 | 0.0 | -0.6 | 0.0 | 0.0 | 9.8  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.1  | 8.1  |
| R11TO74   | T74    | 621655.8 | 4763002 | 314.65 | 179.65 | 0 | 104.8 | 104.8 | 1 | 6740.6  | 73.0 | 0.0 | 87.6 | 0.0 | -0.5 | 0.0 | 0.0 | 9.9  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8  | 7.8  |
| R11TO80   | T80    | 630185.7 | 4771984 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 6838.2  | 64.2 | 0.0 | 87.7 | 0.0 | -0.6 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6  | 7.6  |
| R11TS09a  | T95    | 622816.6 | 4760851 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 6916.2  | 69.0 | 0.0 | 87.8 | 0.0 | -0.6 | 0.0 | 0.0 | 10.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5  | 7.5  |
| R11TO36   | T36    | 622378.6 | 4763063 | 310    | 175    | 0 | 103.3 | 103.3 | 1 | 6052.0  | 70.6 | 0.0 | 86.6 | 0.0 | -0.3 | 0.0 | 0.0 | 8.4  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6  | 8.6  |
| R11TO38   | T38    | 620669.2 | 4765752 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 7233.9  | 64.0 | 0.0 | 88.2 | 0.0 | -0.6 | 0.0 | 0.0 | 10.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8  | 6.8  |
| R11TO54   | T54    | 619944   | 4765594 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 7956.1  | 64.6 | 0.0 | 89.0 | 0.0 | -0.7 | 0.0 | 0.0 | 11.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4  | 5.4  |
| R11TO10   | T10    | 623259.5 | 4758990 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 8027.8  | 67.5 | 0.0 | 89.1 | 0.0 | -0.7 | 0.0 | 0.0 | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2  | 5.2  |
| R11TO37   | T37    | 623038.4 | 4758881 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 8245.3  | 67.8 | 0.0 | 89.3 | 0.0 | -0.7 | 0.0 | 0.0 | 11.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8  | 4.8  |
| Transform | ST1    | 621959.7 | 4761728 | 182.29 | 178.59 | 0 | 103.2 | 103.2 | 1 | 7057.6  | 8.3  | 0.0 | 88.0 | 0.0 | 0.8  | 3.2 | 0.0 | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.9 | -0.9 |
| R11TO66   | T66    | 619127   | 4768529 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 9268.1  | 65.4 | 0.0 | 90.3 | 0.0 | -0.8 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0  | 3.0  |
| R11TO07   | T07    | 618635.6 | 4764053 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 9382.9  | 65.9 | 0.0 | 90.5 | 0.0 | -0.8 | 0.0 | 0.0 | 12.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8  | 2.8  |
| R11TO85   | T85    | 619135.8 | 4769108 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 9462.4  | 64.8 | 0.0 | 90.5 | 0.0 | -0.8 | 0.0 | 0.0 | 12.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7  | 2.7  |
| R11TO94K  | T94    | 618752.1 | 4768764 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 9699.3  | 65.1 | 0.0 | 90.7 | 0.0 | -0.8 | 0.0 | 0.0 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3  | 2.3  |
| R11TO93   | T93    | 618324   | 4767127 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 9706.4  | 64.3 | 0.0 | 90.7 | 0.0 | -0.8 | 0.0 | 0.0 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3  | 2.3  |
| R11TO39R  | T39    | 617348.6 | 4764279 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 10626.2 | 65.8 | 0.0 | 91.5 | 0.0 | -1.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9  | 0.9  |
| R11TO97   | T97    | 617214.7 | 4765642 | 306.94 | 182.94 | 0 | 104.8 | 104.8 | 1 | 10685.6 | 66.4 | 0.0 | 91.6 | 0.0 | -1.0 | 0.0 | 0.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8  | 0.8  |
| R11TO72   | T72    | 620828   | 4757122 | 301.26 | 177.26 | 0 | 104.8 | 104.8 | 1 | 10994.6 | 68.6 | 0.0 | 91.8 | 0.0 | -1.0 | 0.0 | 0.0 | 13.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3  | 0.3  |
| R11TO41   | T41    | 620998   | 4756851 | 300.43 | 176.43 | 0 | 104.8 | 104.8 | 1 | 11096.9 | 68.4 | 0.0 | 91.9 | 0.0 | -1.0 | 0.0 | 0.0 | 13.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2  | 0.2  |
| R11TO51   | T51    | 617020.3 | 4762752 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 11231.1 | 66.9 | 0.0 | 92.0 | 0.0 | -1.0 | 0.0 | 0.0 | 13.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| R11TO12   | T12    | 621135.3 | 4756407 | 299.2  | 175.2  | 0 | 104.8 | 104.8 | 1 | 11365.7 | 68.5 | 0.0 | 92.1 | 0.0 | -1.0 | 0.0 | 0.0 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | -0.2 |
| R11TO11   | T11    | 620836   | 4756609 | 299.87 | 175.87 | 0 | 104.8 | 104.8 | 1 | 11386.9 | 68.2 | 0.0 | 92.1 | 0.0 | -1.0 | 0.0 | 0.0 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | -0.2 |
| R11TO13   | T13    | 621410   | 4756122 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 11437.9 | 67.5 | 0.0 | 92.2 | 0.0 | -1.0 | 0.0 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.3 | -0.3 |
| R11TO09n  | T09    | 616789.8 | 4762576 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 11498.5 | 67.1 | 0.0 | 92.2 | 0.0 | -1.1 | 0.0 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.4 | -0.4 |
| R11TO81a  | T81    | 616342.8 | 4766967 | 309    | 185    | 0 | 104.8 | 104.8 | 1 | 11644.6 | 64.8 | 0.0 | 92.3 | 0.0 | -1.1 | 0.0 | 0.0 | 14.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.6 | -0.6 |
| R11TO91   | T91    | 620503.9 | 4756521 | 299.05 | 175.05 | 0 | 104.8 | 104.8 | 1 | 11664.1 | 67.6 | 0.0 | 92.3 | 0.0 | -1.1 | 0.0 | 0.0 | 14.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.6 | -0.6 |
| R11TO65   | T65    | 622983.8 | 4754679 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 11922.3 | 66.4 | 0.0 | 92.5 | 0.0 | -1.1 | 0.0 | 0.0 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.9 | -0.9 |
| R11TO19   | T19    | 620379.6 | 4755516 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 12531.5 | 68.9 | 0.0 | 93.0 | 0.0 | -1.2 | 0.0 | 0.0 | 14.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.7 | -1.7 |
| R11TO83   | T83    | 615821   | 4770715 | 314    | 190    | 0 | 104.8 | 104.8 | 1 | 13140.6 | 64.2 | 0.0 | 93.4 | 0.0 | -1.3 | 0.0 | 0.0 | 15.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.4 | -2.4 |
| R11TO89   | T89    | 623216.4 | 4753160 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 13236.9 | 68.6 | 0.0 | 93.4 | 0.0 | -1.3 | 0.0 | 0.0 | 15.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.5 | -2.5 |
| R11TO88   | T88    | 615815.6 | 4771059 | 309.9  | 185.9  | 0 | 104.8 | 104.8 | 1 | 13284.6 | 62.6 | 0.0 | 93.5 | 0.0 | -1.3 | 0.0 | 0.0 | 15.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.6 | -2.6 |
| R11TO84   | T84    | 622487.1 | 4753393 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 13299.2 | 68.9 | 0.0 | 93.5 | 0.0 | -1.3 | 0.0 | 0.0 | 15.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.6 | -2.6 |
| R11TO08   | T08    | 614544.5 | 4764911 | 304.73 | 180.73 | 0 | 104.8 | 104.8 | 1 | 13369.9 | 66.1 | 0.0 | 93.5 | 0.0 | -1.3 | 0.0 | 0.0 | 15.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.7 | -2.7 |
| R11TO52   | T52    | 614214.8 | 4766531 | 309.65 | 185.65 | 0 | 104.8 | 104.8 | 1 | 13720.6 | 66.0 | 0.0 | 93.8 | 0.0 | -1.4 | 0.0 | 0.0 | 15.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.1 | -3.1 |
| R11TO82   | T82    | 618390   | 4754915 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 14259.4 | 67.3 | 0.0 | 94.1 | 0.0 | -1.4 | 0.0 | 0.0 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.6 | -3.6 |
| R11TO42   | T42    | 619935   | 4753628 | 304    | 180    | 0 | 104.8 | 104.8 | 1 | 14329.8 | 69.4 | 0.0 | 94.1 | 0.0 | -1.4 | 0.0 | 0.0 | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.7 | -3.7 |
| WF01(Wai  | WF01   | 631359   | 4751252 | 270.12 | 175.12 | 0 | 105   | 105   | 1 | 14701.5 | 53.0 | 0.0 | 94.4 | 0.0 | -2.5 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.9 | -2.9 |
| Transform | ST2    | 622836.6 | 4754679 | 178.7  | 175    | 0 | 103.2 | 103.2 | 1 | 11983.6 | 6.4  | 0.0 | 92.6 | 0.0 | 1.0  | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.4 | -7.4 |
| WF02(Wai  | WF02   | 631758   | 4750750 | 270.92 | 175.92 | 0 | 105   | 105   | 1 | 15285.6 | 53.5 | 0.0 | 94.7 | 0.0 | -2.6 | 0.0 | 0.0 | 16.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.4 | -3.4 |
| WF03(Wai  | WF03   | 631921   | 4750541 | 271.25 | 176.25 | 0 | 105   | 105   | 1 | 15529.4 | 53.7 | 0.0 | 94.8 | 0.0 | -2.7 | 0.0 | 0.0 | 16.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.6 | -3.6 |
| R11TO24   | T24    | 627752.2 | 4750239 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 15302.5 | 67.4 | 0.0 | 94.7 | 0.0 | -1.6 | 0.0 | 0.0 | 16.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.7 | -4.7 |
| R11TO62   | T62    | 621876.7 | 4751311 | 301.01 | 177.01 | 0 | 104.8 | 104.8 | 1 | 15451.8 | 67.1 | 0.0 | 94.8 | 0.0 | -1.6 | 0.0 | 0.0 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.8 | -4.8 |
| R11TO63   | T63    | 621609.3 | 4751032 | 300.37 | 176.37 | 0 | 104.8 | 104.8 | 1 | 15813.2 | 66.8 | 0.0 | 95.0 | 0.0 | -1.7 | 0.0 | 0.0 | 16.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.2 | -5.2 |
| R11TO98   | T98    | 617981.7 | 4753043 | 302.44 | 178.44 | 0 | 104.8 | 104.8 | 1 | 15955.0 | 69.1 | 0.0 | 95.1 | 0.0 | -1.7 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.3 | -5.3 |
| R11TO53   | T53    | 614455.8 | 4766402 | 320    | 185    | 0 | 103.3 | 103.3 | 1 | 13471.6 | 71.3 | 0.0 | 93.6 | 0.0 | -1.5 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.1 | -1.1 |
| R11TS13   | si T96 | 621422.7 | 4750668 | 299.47 | 175.47 | 0 | 104.8 | 104.8 | 1 | 16221.4 | 66.4 | 0.0 | 95.2 | 0.0 | -1.7 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.5 | -5.5 |
| R11TO23   | T23    | 627539.7 | 4748974 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 16570.3 | 67.4 | 0.0 | 95.4 | 0.0 | -1.8 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.9 | -5.9 |
| R11TO48   | T48    | 624687   | 4749283 | 300.42 | 176.42 | 0 | 104.8 | 104.8 | 1 | 1657    |      |     |      |     |      |     |     |      |     |     |     |     |     |      |      |



|                |          |         |        |        |   |       |       |   |         |      |     |      |     |      |     |     |      |     |     |     |     |     |     |     |       |       |
|----------------|----------|---------|--------|--------|---|-------|-------|---|---------|------|-----|------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| WF04(Wai WF04  | 632750   | 4748389 | 273.81 | 178.81 | 0 | 105   | 105   | 1 | 17824.3 | 55.0 | 0.0 | 96.0 | 0.0 | -3.0 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.4  | -5.4  |
| R11TO21 T21    | 625004   | 4748242 | 302.63 | 178.63 | 0 | 104.8 | 104.8 | 1 | 17539.3 | 68.7 | 0.0 | 95.9 | 0.0 | -1.9 | 0.0 | 0.0 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.7  | -6.7  |
| R11TO45 T45    | 623160   | 4748650 | 313.11 | 178.11 | 0 | 104.8 | 104.8 | 1 | 17542.6 | 73.4 | 0.0 | 95.9 | 0.0 | -1.9 | 0.0 | 0.0 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.7  | -6.7  |
| R11TO20 T20    | 620627.3 | 4749341 | 300.55 | 176.55 | 0 | 104.8 | 104.8 | 1 | 17756.6 | 67.3 | 0.0 | 96.0 | 0.0 | -1.9 | 0.0 | 0.0 | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.9  | -6.9  |
| R11TO61 T61    | 625177   | 4747970 | 302.9  | 178.9  | 0 | 104.8 | 104.8 | 1 | 17780.3 | 68.9 | 0.0 | 96.0 | 0.0 | -2.0 | 0.0 | 0.0 | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.9  | -6.9  |
| R11TO47 T47    | 622482.9 | 4748447 | 314.34 | 179.34 | 0 | 104.8 | 104.8 | 1 | 17931.4 | 73.9 | 0.0 | 96.1 | 0.0 | -1.9 | 0.0 | 0.0 | 17.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.0  | -7.0  |
| Rosa Flora RFT | 615270   | 4756417 | 250    | 175    | 0 | 103.5 | 103.5 | 1 | 15579.9 | 43.4 | 0.0 | 94.9 | 0.0 | -2.3 | 0.0 | 0.0 | 12.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.8  | -1.8  |
| R11TO99 T99    | 619207.8 | 4749224 | 299    | 175    | 0 | 104.8 | 104.8 | 1 | 18487.4 | 66.6 | 0.0 | 96.3 | 0.0 | -2.1 | 0.0 | 0.0 | 18.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.4  | -7.4  |
| R11TO05 T05    | 621171   | 4747754 | 303.78 | 179.78 | 0 | 104.8 | 104.8 | 1 | 19016.6 | 68.6 | 0.0 | 96.6 | 0.0 | -2.1 | 0.0 | 0.0 | 18.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -7.8  | -7.8  |
| R11TO46 T46    | 622737   | 4748968 | 313    | 178    | 0 | 103.3 | 103.3 | 1 | 17358.5 | 73.2 | 0.0 | 95.8 | 0.0 | -2.1 | 0.0 | 0.0 | 13.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.2  | -4.2  |
| Mohawk05 MH05  | 623047   | 4746843 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 19316.7 | 46.8 | 0.0 | 96.7 | 0.0 | -0.6 | 0.0 | 0.0 | 35.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.1 | -29.1 |
| Mohawk04 MH04  | 623297   | 4746604 | 260    | 180    | 0 | 102.1 | 102.1 | 1 | 19487.6 | 46.8 | 0.0 | 96.8 | 0.0 | -0.6 | 0.0 | 0.0 | 35.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.3 | -29.3 |
| Mohawk03 MH02  | 622632   | 4746480 | 260.44 | 180.44 | 0 | 102.1 | 102.1 | 1 | 19774.8 | 46.9 | 0.0 | 96.9 | 0.0 | -0.6 | 0.0 | 0.0 | 35.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -29.6 | -29.6 |

Limit. Valu 40 40  
Level D/N: 39.9863 39.9863

Receiver: H1Boyle1716

ID: O\_3030  
X: 629319.8  
Y: 4767722  
Z: 184.5  
Ground: 180

| ISO       | Bezeichnung | ID | X        | Y       | Z      | Ground | RefID | Ord | LxT   | LxN   | L/A | Dist.   | hm   | Freq | Adiv | K0b | Agr  | Abar | z   | Aatm | Afol | Ahous | Cmet | CmetN | Dc  | RL  | LtotT | LtotN |      |
|-----------|-------------|----|----------|---------|--------|--------|-------|-----|-------|-------|-----|---------|------|------|------|-----|------|------|-----|------|------|-------|------|-------|-----|-----|-------|-------|------|
| R11TO59   | T59         |    | 629964   | 4767676 | 308.03 | 184.03 |       | 0   | 104.8 | 104.8 | 1   | 657.6   | 64.0 | 0.0  | 67.4 | 0.0 | -0.5 | 0.0  | 0.0 | 1.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 36.4  | 36.4  |      |
| R11TO58   | T58         |    | 628473   | 4767629 | 309    | 185    |       | 0   | 104.8 | 104.8 | 1   | 860.9   | 64.4 | 0.0  | 69.7 | 0.0 | -0.5 | 0.0  | 0.0 | 1.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 33.7  | 33.7 |
| R11TO60   | T60         |    | 630277.4 | 4767682 | 320    | 185    |       | 0   | 104.8 | 104.8 | 1   | 968.0   | 69.2 | 0.0  | 70.7 | 0.0 | -0.5 | 0.0  | 0.0 | 2.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 32.4  | 32.4 |
| R11TO18   | T18         |    | 630122.5 | 4766229 | 320    | 185    |       | 0   | 104.8 | 104.8 | 1   | 1700.8  | 68.5 | 0.0  | 75.6 | 0.0 | -0.4 | 0.0  | 0.0 | 3.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 26.2  | 26.2 |
| R11TO04   | T04         |    | 627524.4 | 4767740 | 309    | 185    |       | 0   | 104.8 | 104.8 | 1   | 1799.8  | 63.2 | 0.0  | 76.1 | 0.0 | -0.4 | 0.0  | 0.0 | 3.6  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 25.5  | 25.5 |
| R11TO02   | T02         |    | 627379.8 | 4765942 | 309    | 185    |       | 0   | 104.8 | 104.8 | 1   | 2635.7  | 63.8 | 0.0  | 79.4 | 0.0 | -0.3 | 0.0  | 0.0 | 4.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 20.8  | 20.8 |
| R11TO56   | T56         |    | 626599   | 4768825 | 309    | 185    |       | 0   | 104.8 | 104.8 | 1   | 2938.4  | 63.0 | 0.0  | 80.4 | 0.0 | -0.3 | 0.0  | 0.0 | 5.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 19.4  | 19.4 |
| R11TO33   | T33         |    | 626968.7 | 4765950 | 309    | 185    |       | 0   | 104.8 | 104.8 | 1   | 2946.5  | 63.1 | 0.0  | 80.4 | 0.0 | -0.3 | 0.0  | 0.0 | 5.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 19.4  | 19.4 |
| R11TO78   | T78         |    | 628581   | 4764783 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 3032.9  | 62.9 | 0.0  | 80.6 | 0.0 | -0.3 | 0.0  | 0.0 | 5.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 19.0  | 19.0 |
| R11TO35   | T35         |    | 627163.5 | 4764483 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 3892.9  | 61.4 | 0.0  | 82.8 | 0.0 | -0.2 | 0.0  | 0.0 | 6.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 15.6  | 15.6 |
| R11TO79   | T79         |    | 630384   | 4771637 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 4058.7  | 64.2 | 0.0  | 83.2 | 0.0 | -0.3 | 0.0  | 0.0 | 6.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 15.0  | 15.0 |
| R11TO03   | T03         |    | 629891.2 | 4763588 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 4175.6  | 62.1 | 0.0  | 83.4 | 0.0 | -0.3 | 0.0  | 0.0 | 7.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 14.7  | 14.7 |
| R11TO34   | T34         |    | 626486   | 4764591 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 4224.4  | 61.6 | 0.0  | 83.5 | 0.0 | -0.3 | 0.0  | 0.0 | 7.1  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 14.5  | 14.5 |
| R11TO80   | T80         |    | 630185.7 | 4771984 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 4350.5  | 64.0 | 0.0  | 83.8 | 0.0 | -0.3 | 0.0  | 0.0 | 7.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 14.1  | 14.1 |
| R11TO31   | T31         |    | 625150   | 4765821 | 309    | 185    |       | 0   | 104.8 | 104.8 | 1   | 4584.4  | 62.6 | 0.0  | 84.2 | 0.0 | -0.4 | 0.0  | 0.0 | 7.5  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 13.4  | 13.4 |
| R11TO29   | T29         |    | 628498   | 4763100 | 303.09 | 179.09 |       | 0   | 104.8 | 104.8 | 1   | 4695.6  | 62.8 | 0.0  | 84.4 | 0.0 | -0.4 | 0.0  | 0.0 | 7.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 13.1  | 13.1 |
| R11TO57   | T57         |    | 624435.2 | 4768696 | 309    | 185    |       | 0   | 104.8 | 104.8 | 1   | 4982.3  | 62.5 | 0.0  | 85.0 | 0.0 | -0.4 | 0.0  | 0.0 | 8.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 12.3  | 12.3 |
| R11TO32   | T32         |    | 624780.5 | 4764410 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 5620.5  | 61.1 | 0.0  | 86.0 | 0.0 | -0.5 | 0.0  | 0.0 | 8.7  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 10.5  | 10.5 |
| R11TO76   | T76         |    | 623639.9 | 4765719 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 6023.8  | 60.0 | 0.0  | 86.6 | 0.0 | -0.5 | 0.0  | 0.0 | 9.2  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 9.5   | 9.5  |
| R11TO06   | T06         |    | 623095.6 | 4767244 | 309.97 | 185.97 |       | 0   | 104.8 | 104.8 | 1   | 6243.7  | 62.6 | 0.0  | 86.9 | 0.0 | -0.5 | 0.0  | 0.0 | 9.4  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 9.0   | 9.0  |
| R11TO55   | T55         |    | 623610.3 | 4764393 | 315    | 180    |       | 0   | 104.8 | 104.8 | 1   | 6610.2  | 66.8 | 0.0  | 87.4 | 0.0 | -0.5 | 0.0  | 0.0 | 9.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.1   | 8.1  |
| R11TO01   | T01         |    | 622985.8 | 4765745 | 306.25 | 182.25 |       | 0   | 104.8 | 104.8 | 1   | 6636.4  | 61.3 | 0.0  | 87.4 | 0.0 | -0.6 | 0.0  | 0.0 | 9.8  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 8.1   | 8.1  |
| R11TO27   | T27         |    | 622534.5 | 4768708 | 314    | 190    |       | 0   | 104.8 | 104.8 | 1   | 6857.7  | 63.9 | 0.0  | 87.7 | 0.0 | -0.6 | 0.0  | 0.0 | 10.1 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 7.6   | 7.6  |
| R11TO28   | T28         |    | 622516.5 | 4769096 | 309    | 185    |       | 0   | 104.8 | 104.8 | 1   | 6941.7  | 61.9 | 0.0  | 87.8 | 0.0 | -0.6 | 0.0  | 0.0 | 10.1 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 7.4   | 7.4  |
| R11TO75   | T75         |    | 621356.9 | 4764543 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 8575.0  | 61.3 | 0.0  | 89.7 | 0.0 | -0.7 | 0.0  | 0.0 | 11.7 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 4.2   | 4.2  |
| R11TO38   | T38         |    | 620669.2 | 4765752 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 8872.9  | 60.4 | 0.0  | 90.0 | 0.0 | -0.8 | 0.0  | 0.0 | 11.9 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 3.7   | 3.7  |
| R11TO74   | T74         |    | 621655.8 | 4763002 | 314.65 | 179.65 |       | 0   | 104.8 | 104.8 | 1   | 9001.7  | 68.4 | 0.0  | 90.1 | 0.0 | -0.7 | 0.0  | 0.0 | 12.1 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 3.4   | 3.4  |
| R11TS09a5 | T95         |    | 622816.6 | 4760851 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 9461.3  | 65.3 | 0.0  | 90.5 | 0.0 | -0.8 | 0.0  | 0.0 | 12.4 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 2.7   | 2.7  |
| R11TO54   | T54         |    | 619944   | 4765594 | 304    | 180    |       | 0   | 104.8 | 104.8 | 1   | 9615.0  | 60.7 | 0.0  | 90.7 | 0.0 | -0.8 | 0.0  | 0.0 | 12.6 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 2.4   | 2.4  |
| R11TO36   | T36         |    | 622378.6 | 4763063 | 310    | 175    |       | 0   | 103.3 | 103.3 | 1   | 8360.7  | 65.9 | 0.0  | 89.4 | 0.0 | -0.7 | 0.0  | 0.0 | 9.9  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 4.7   | 4.7  |
| R11TO66   | T66         |    | 619127   | 4768529 | 314    | 190    |       | 0   | 104.8 | 104.8 | 1   | 10225.5 | 62.4 | 0.0  | 91.2 | 0.0 | -0.9 | 0.0  | 0.0 | 13.0 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 1.5   | 1.5  |
| R11TO85   | T85         |    | 619135.8 | 4769108 | 314    | 190    |       | 0   | 104.8 | 104.8 | 1   | 10278.6 | 62.4 | 0.0  | 91.2 | 0.0 | -0.9 | 0.0  | 0.0 | 13.1 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 1.4   | 1.4  |
| R11TO94K  | T94         |    | 618752.1 | 4768764 | 314    | 190    |       | 0   | 104.8 | 104.8 | 1   | 10619.7 | 62.2 | 0.0  | 91.5 | 0.0 | -0.9 | 0.0  | 0.0 | 13.4 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 0.9   | 0.9  |
| R11TO10   | T10         |    | 623259.5 | 4758990 | 299    | 175    |       | 0   | 104.8 | 104.8 | 1   | 10629.7 | 63.6 | 0.0  | 91.5 | 0.0 | -1.0 | 0.0  | 0.0 | 13.4 | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 | 0.0 | 0.0   | 0.9   | 0.9  |
| R11TO37   | T37         |    | 623038.4 | 4758881 | 299    | 175    |       | 0   | 104.8 | 104.8 |     |         |      |      |      |     |      |      |     |      |      |       |      |       |     |     |       |       |      |



**Stantec**

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix F Additional Information  
September 30, 2014

**Appendix F Additional Information**

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**Stantec**

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix F Additional Information  
September 30, 2014

**MANUFACTURERS SOUND EMISSION  
AND ADJUSTED SOUND EMISSION**

**Table 3.1 Wind Turbine Sound Emission Summary**

**Make: ENERCON**

**Model: E101**

**Electrical Rating: 3MW**

**Hub Height: 124 m or 135 m**

**Data Source: Enercon (Appendix D) - for all wind shear above 0.2**

**Octave Band Sound Power Level (dB ref. 10<sup>-12</sup> Watts)**

|  |      | Manufacturer's Emission Level |       |       |       |    | Adjusted Emission Level |       |       |       |       |
|--|------|-------------------------------|-------|-------|-------|----|-------------------------|-------|-------|-------|-------|
| 10m Height Wind Speed (m/s)                |      | 6                             | 7     | 8     | 9     | 10 | 6                       | 7     | 8     | 9     | 10    |
| Frequency (Hz)                             | 63   | 111.3                         | 112   | 112.4 | 112.3 | -- | 112.5                   | 112.5 | 112.5 | 112.5 | 112.5 |
|  | 125  | 106.5                         | 107.2 | 107.6 | 107.5 | -- | 107.7                   | 107.7 | 107.7 | 107.7 | 107.7 |
|  | 250  | 106                           | 106.7 | 107.1 | 107   | -- | 107.2                   | 107.2 | 107.2 | 107.2 | 107.2 |
|  | 500  | 102.8                         | 103.5 | 103.9 | 103.8 | -- | 104                     | 104   | 104   | 104   | 104   |
|  | 1000 | 97.1                          | 97.8  | 98.2  | 98.1  | -- | 98.3                    | 98.3  | 98.3  | 98.3  | 98.3  |
|  | 2000 | 90.4                          | 91.1  | 91.5  | 91.4  | -- | 91.6                    | 91.6  | 91.6  | 91.6  | 91.6  |
|  | 4000 | 83.7                          | 84.4  | 84.8  | 84.7  | -- | 84.9                    | 84.9  | 84.9  | 84.9  | 84.9  |
|  | 8000 | 73.2                          | 73.9  | 74.3  | 74.2  | -- | 74.4                    | 74.4  | 74.4  | 74.4  | 74.4  |
| Overall (dBA ref. 10 <sup>-12</sup> Watts) |      | 103.6                         | 104.3 | 104.7 | 104.6 | -- | 104.8                   | 104.8 | 104.8 | 104.8 | 104.8 |

**Make: ENERCON**

**Model: E82**

**Electrical Rating: 2.3MW**

**Hub Height: 135 m**

**Data Source: Enercon (Appendix D) - for all wind shear above 0.2**

**Octave Band Sound Power Level (dB ref. 10<sup>-12</sup> Watts)**

|  |      | Manufacturer's Emission Level |       |       |       |       | Adjusted Emission Level |       |       |       |       |
|--|------|-------------------------------|-------|-------|-------|-------|-------------------------|-------|-------|-------|-------|
| 10m Height Wind Speed (m/s)                |      | 6                             | 7     | 8     | 9     | 10    | 6                       | 7     | 8     | 9     | 10    |
| Frequency (Hz)                             | 63   | 111.1                         | 111.7 | 111.8 | 112.8 | 113.2 | 112.8                   | 112.8 | 112.8 | 112.8 | 112.8 |
|  | 125  | 106.7                         | 108.9 | 109.3 | 110.7 | 110.7 | 110.7                   | 110.7 | 110.7 | 110.7 | 110.7 |
|  | 250  | 100.6                         | 102.8 | 103.2 | 102.9 | 102.3 | 102.9                   | 102.9 | 102.9 | 102.9 | 102.9 |
|  | 500  | 98.9                          | 100.8 | 101.4 | 100.5 | 99.7  | 100.5                   | 100.5 | 100.5 | 100.5 | 100.5 |
|  | 1000 | 95.9                          | 97.7  | 98.5  | 98.7  | 98.3  | 98.7                    | 98.7  | 98.7  | 98.7  | 98.7  |
|  | 2000 | 87.8                          | 90.2  | 91    | 92.6  | 92.8  | 92.6                    | 92.6  | 92.6  | 92.6  | 92.6  |
|  | 4000 | 74.8                          | 77.5  | 78.4  | 80.5  | 81.5  | 80.5                    | 80.5  | 80.5  | 80.5  | 80.5  |
|  | 8000 | 76.5                          | 75.5  | 74.5  | 74.5  | 76.3  | 74.5                    | 74.5  | 74.5  | 74.5  | 74.5  |
| Overall (dBA ref. 10 <sup>-12</sup> Watts) |      | 100.6                         | 102.6 | 103.2 | 103.3 | 102.9 | 103.3                   | 103.3 | 103.3 | 103.3 | 103.3 |

<sup>1</sup> As per the data, overall sound power data is available from 6 m/s (corresponding to 1414 kW or approximately 38% of the rated power) to 9 m/s (corresponding to 2987 kW or approximately 99.6% of the rated power of 3MW). As per the test, the maximum sound power level occurs at 8.3 m/s wind speed and corresponding spectral data is given in the data sheet. The spectral data for other wind speed were obtained by scaling based on the overall data.

<sup>2</sup> No data was given for the 10 m/s wind speed since the turbine reaches 95% of rated power output at 8.3 m/s wind speed. For this model the attached test report indicates that the maximum sound power level occurs at 8.3 m/s wind speed. The maximum sound power level as provided from manufacturer was used. A wind shear adjusted sound data is provided in Appendix F.



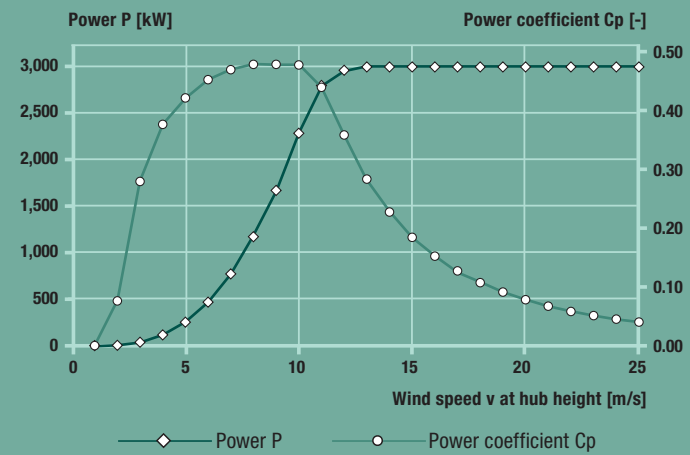
## **MANUFACTURER'S CATALOG DATA**

# E101

3,000 kW



## Calculated power curve



| Wind [m/s] | Power P [kW] | Power coefficient Cp [-] |
|------------|--------------|--------------------------|
| 1          | 0.0          | 0.000                    |
| 2          | 3.0          | 0.076                    |
| 3          | 37.0         | 0.279                    |
| 4          | 118.0        | 0.376                    |
| 5          | 258.0        | 0.421                    |
| 6          | 479.0        | 0.452                    |
| 7          | 790.0        | 0.469                    |
| 8          | 1,200.0      | 0.478                    |
| 9          | 1,710.0      | 0.478                    |
| 10         | 2,340.0      | 0.477                    |
| 11         | 2,867.0      | 0.439                    |
| 12         | 3,034.0      | 0.358                    |
| 13         | 3,050.0      | 0.283                    |
| 14         | 3,050.0      | 0.227                    |
| 15         | 3,050.0      | 0.184                    |
| 16         | 3,050.0      | 0.152                    |
| 17         | 3,050.0      | 0.127                    |
| 18         | 3,050.0      | 0.107                    |
| 19         | 3,050.0      | 0.091                    |
| 20         | 3,050.0      | 0.078                    |
| 21         | 3,050.0      | 0.067                    |
| 22         | 3,050.0      | 0.058                    |
| 23         | 3,050.0      | 0.051                    |
| 24         | 3,050.0      | 0.045                    |
| 25         | 3,050.0      | 0.040                    |

$\rho = 1.225 \text{ kg/m}^3$

For more information on the ENERCON power curve, please see the last page.

## Technical specifications E-101

Rated power: 3,000 kW  
 Rotor diameter: 101 m  
 Hub height: 99 m / 135 m  
 Wind zone (DIBT): WZ III  
 Wind class (IEC): IEC/NVN IIA

**WEC concept:** Gearless, variable speed  
 Single blade adjustment

**Rotor**  
 Type: Upwind rotor with active pitch control  
 Rotational direction: Clockwise  
 No. of blades: 3  
 Swept area: 8,012 m<sup>2</sup>  
 Blade material: GRP (epoxy resin);  
 Built-in lightning protection  
 Rotational speed: Variable, 4–14.5 rpm  
 Pitch control: ENERCON single blade pitch system;  
 one independent pitch system per rotor blade with allocated emergency supply

### Drive train with generator

Hub: Rigid  
 Main bearing: Double-row tapered/cylindrical roller bearings  
 Generator: ENERCON direct-drive annular generator

**Grid feed:** ENERCON inverter

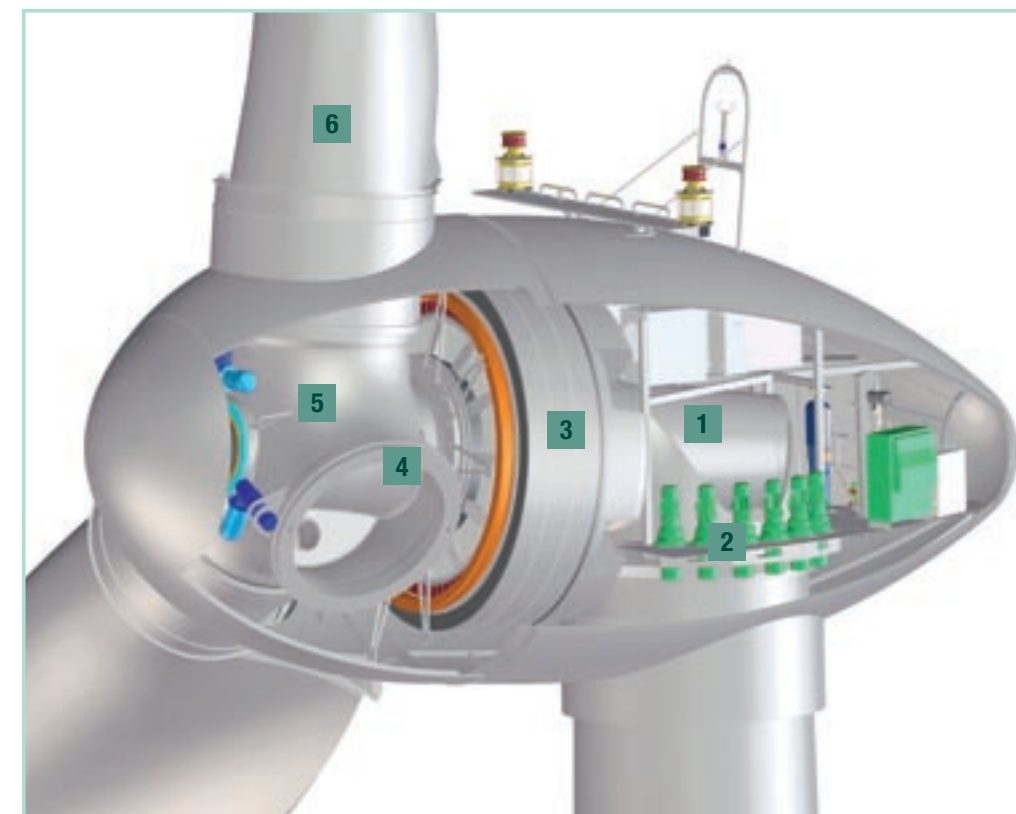
**Brake systems:** – 3 independent pitch control systems with emergency power supply  
 – Rotor brake  
 – Rotor lock, latching (15°)

**Yaw system:** Active via yaw gear, load-dependent damping

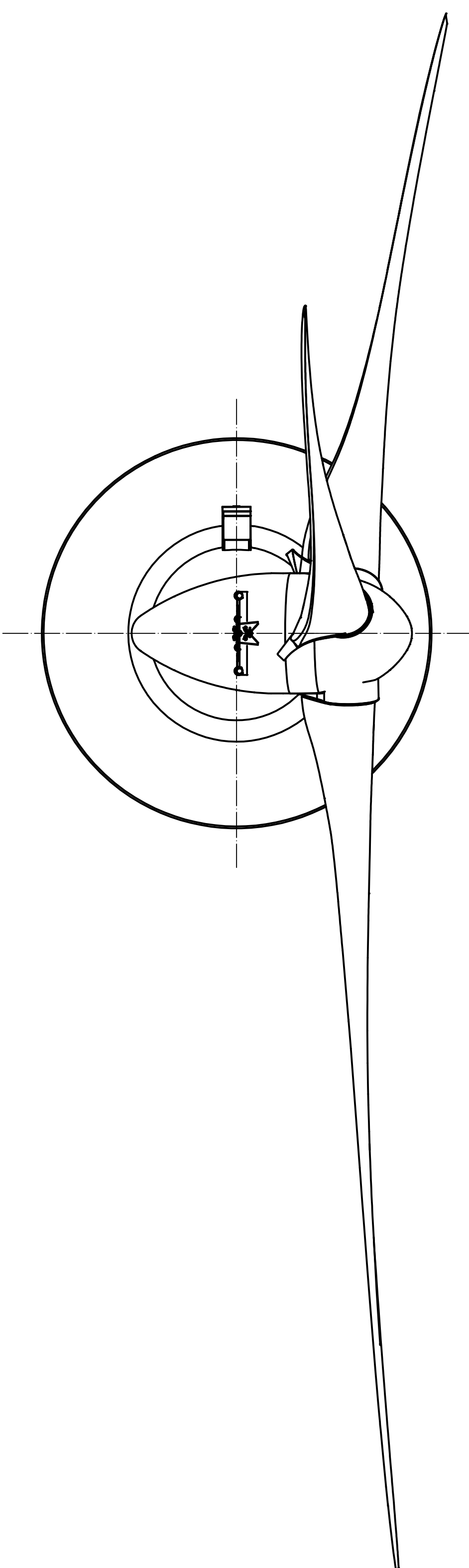
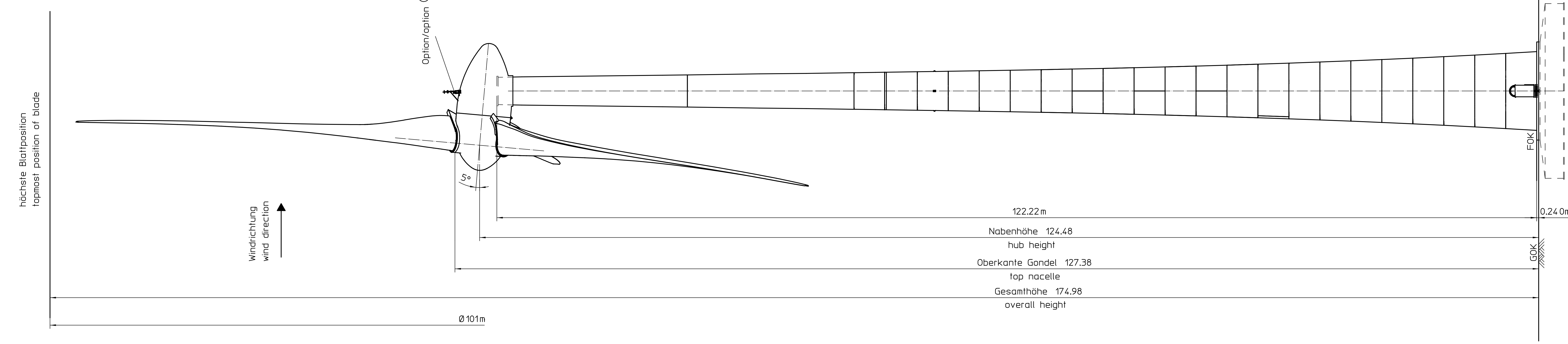
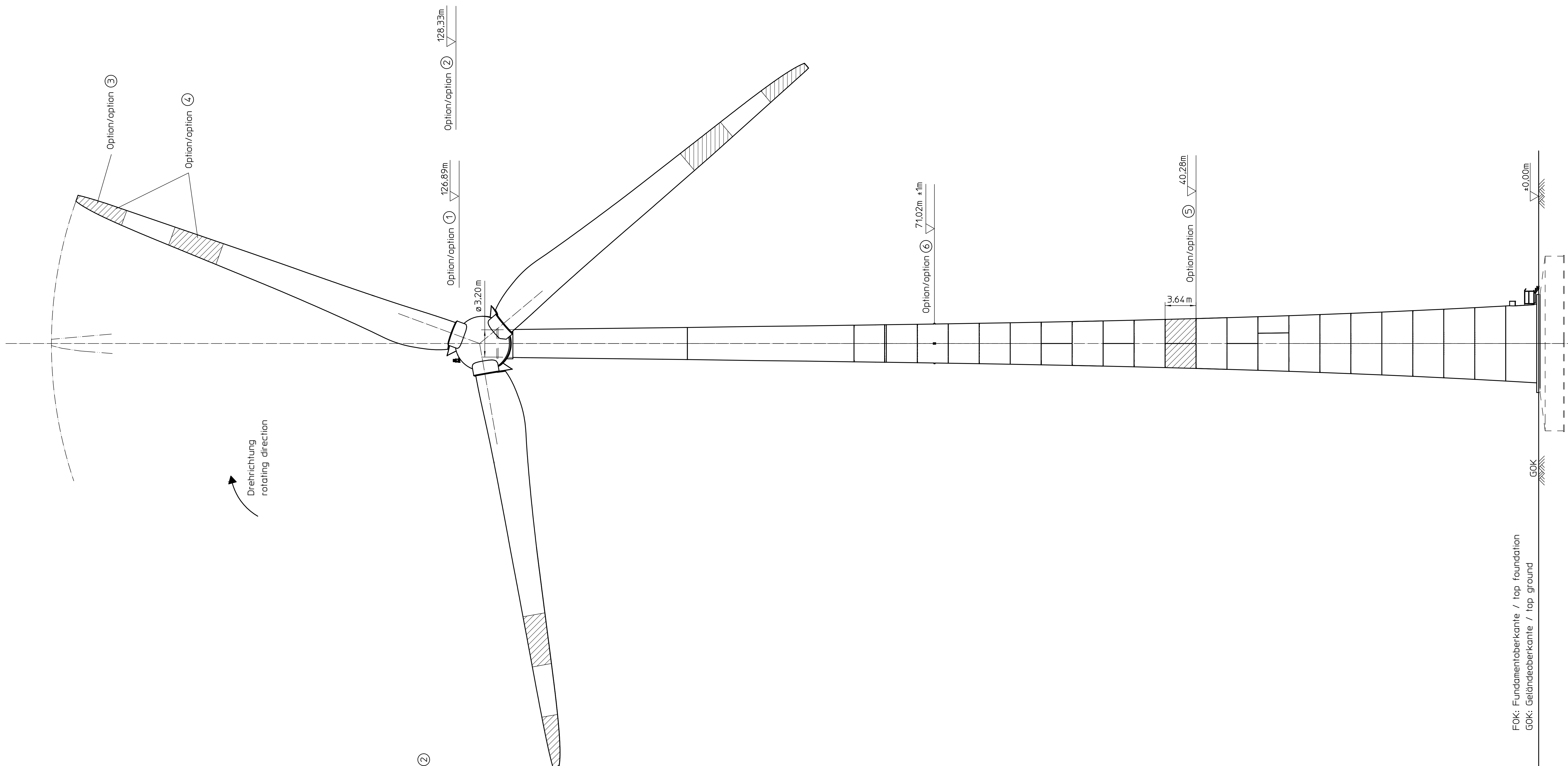
**Cut-out wind speed:** 28–34 m/s (with ENERCON storm control\*)

**Remote monitoring:** ENERCON SCADA

\*For more information on the ENERCON storm control feature, please see the last page.



- 1 Main carrier
- 2 Yaw drive
- 3 Annular generator
- 4 Blade adapter
- 5 Rotor hub
- 6 Rotor blade



|  |   |
|--|---|
| Projektbezogene Angaben / project specific data      |   |
| Projekt / project:                                   |   |
| Geländehöhe über NN / ground height above sea level: |   |
| Gesamthöhe über NN / total height above sea level:   |   |
| Optionen / options:                                  |   |
| ①  | Nachtkennzeichnung / night marking:<br>W - Rot / W - Red  |
| ②  | Tageskennzeichnung / daylight marking:<br>weißes Blitzlicht mit Sichtweitenreduzierung<br>white flashlight with visibility reduction                                      |
| ③  | Tageskennzeichnung / daylight marking:<br>6m rot (RAL 3020) / graues Rotorblatt<br>IRAL 7038) / 6m red (RAL 3020)<br>grey rotor blade (RAL 7038)                          |
| ④  | Tageskennzeichnung / daylight marking:<br>rot/grau/rot (RAL 3020 / RAL 7038 /<br>RAL 3020) je 6m lang / red/grey/red<br>IRAL 3020 / RAL 7038 / RAL 3020)<br>every 6m lang |
| ⑤  | Tageskennzeichnung / daylight marking:<br>3.83m Farbfeld RAL 3020 /<br>3.83m colour field RAL 3020  |
| ⑥  | Nachtkennzeichnung / night marking:<br>Hindernisse auf jeder Turmchse 10CD /<br>obstruction fire on every tower axis 10CD   |

Statisch und Konstruktiv nicht geprüft

|  |                              |   |
|--|------------------------------|---|
| <b>ENERCON GmbH</b><br>26405 Aurich<br>Germany |                              | Projekt: WRD-Turm<br>Blatt: 1   |
| Datum: 28.07.2015<br>Status: Entwurf           | Name: Stamerl<br>Scale: E200 | Projektname: Ansicht Betonfertigteilmur<br>View Precast Concrete Tower<br>E-101 E1/BF/125/w |
| No. Änderung/Change: n. Nr. Name:              | No. Nr.: 101.00.008 - 0      | Blatt: 1<br>Gesamt: 1   |

Entwurf / Drafting

## WIND ENERGY CONVERTER CHARACTERISTICS E-101

| <b>Rotor</b>        |                            |
|---------------------|----------------------------|
| Type                | E-101                      |
| Rotor diameter      | 101 m                      |
| Swept area          | 8012 m <sup>2</sup>        |
| Power regulation    | Pitch                      |
| RPM                 | 4 – 14,5 min <sup>-1</sup> |
| Cut in wind         | 2,5 m/s                    |
| Cut out wind        | 28 – 34 m/s                |
| Survival wind speed | 59,5 m/s                   |

| <b>Gear Box</b> |            |
|-----------------|------------|
| Not applicable  | No gearbox |

| <b>Blades</b>        |             |
|----------------------|-------------|
| Manufacturer         | ENERCON     |
| Blade length         | 48,5 m      |
| Material             | GRP (Epoxy) |
| Lightning protection | included    |

| <b>Generator</b>          |   |
|---------------------------|---|
| Manufacturer              | ENERCON                                 |
| Nominal Power             | 3000 kW                                 |
| Type (model)              | Synchronous, direct-drive ringgenerator |
| Protection classification | IP 23                                   |
| Insulation class          | F                                       |

| <b>Yaw System</b> |                                    |
|-------------------|------------------------------------|
| Type              | electrical motors                  |
| Yaw control       | Active (based on wind vane signal) |
| Yaw rate          | 0,5°/sec                           |

| <b>Controller</b>    |                                  |
|----------------------|----------------------------------|
| Manufacturer         | ENERCON                          |
| Type                 | microprocessor                   |
| Grid connection      | Via ENERCON inverter             |
| Remote communication | ENERCON Remote Monitoring System |
| UPS                  | included                         |

| <b>Braking System</b> |  |
|-----------------------|--|
| Aerodynamic brake     | <ul style="list-style-type: none"> <li>- three independent blade pitch systems with emergency supply</li> <li>- rotor brake</li> <li>- rotor lock, locking at 30°</li> </ul> |

| <b>Tower</b>      |                 |                 |  |
|-------------------|-----------------|-----------------|--|
| Hub heights       | 99 m            | 135 m           |  |
| Tower             | Prefab concrete | Prefab concrete |  |
| Design Wind Class | <b>IIA</b>      | <b>IIA</b>      |  |

Sources: Design Assessment

|   |                |             |  |
|---|----------------|-------------|--|
| © by ENERCON GmbH. All rights reserved. |                |             |  |
| Created/Date:                           | M. Lüninghöner | Checked:    | AH/09/2009   |
| Dpt.:                                   | SL_HB          | Approved:   | SL_HB_WEC Characteristics_E-101_Rev001_eng-eng.doc |
| Revision:                               | 001/31.03.2010 | Reference : |  |

## Prevention

All mechanical and electrical components of the wind energy converter in which overheating or short circuits could potentially ignite a fire are permanently monitored by sensors – primarily to ensure their proper functioning – while the WEC is running. If the WEC control system detects irregularities, the wind energy converter stops or continues with limited power. This function is the most effective component of the fire safety system.

## Components

Special fire safety components of the E-70 E4 include:

- One Hekatron ORS 142 smoke detector (see appendix for data sheet) on the rotor head side of the stator support ring
- One Hekatron ORS 142 smoke detector on the machine house side of the stator support ring
- One Hekatron ORS 142 smoke detector on the bottom side of the main carrier (i.e., at the tower top)
- One hand-held CO<sub>2</sub> fire extinguisher in the nacelle
- If required by national regulations, one hand-held CO<sub>2</sub> fire extinguisher in the tower base (ENERCON personnel carry an additional fire extinguisher in their Service vehicles)
- Fire retardant or hardly inflammable or incombustible materials for specific components.



No smoke detectors are installed inside the tower and in the tower base. Since the WEC cooling system transports air from the tower base to the area above the tower top at high speed, the smoke detectors in the nacelle are able to detect a fire in the tower or the tower base.

## Safe stopping of the wind energy converter in hazardous situations

The emergency pitch unit of each rotor blade consists of blade relay box, capacitor box, and pitch motor. If a safety-relevant sensor reports a fault or a safety switch is triggered, the wind energy converter stops immediately. The pitch control boxes disconnect the pitch motors from the control system and switch the contactors in the blade relay boxes to power supply by the capacitor boxes. The rotor blades automatically move into feathered position independently of each other until switched off by limit switches on the blade bearings. In case of an emergency stop of the rotor (in the event of a fire) an additional electromechanical brake is used. Decelerating the rotor from its rated speed to a standstill takes 10 to 15 seconds.



### Fire during WEC operation

There are no persons present in the wind energy converter while it is running. If a fire is detected the rotor of the WEC stops as quickly as possible (emergency stop). The smoke detectors and/or temperature sensors generate signals that are immediately forwarded by the SCADA remote monitoring system to ENERCON Service, who in turn will immediately alert the local fire service and the utility operating the grid. They decide on site which measures are required. The ENERCON Service Center is staffed 24/7 and can thus be contacted at any time

### Fire while persons are present

In this scenario, follow the instructions and rules of conduct below.

- Stop the wind energy converter and turn off the main switch, if still possible. Otherwise, push the EMERGENCY STOP button.
- Call the fire service.
- Rescue any injured persons from the danger zone and ensure first aid is provided.
- Use carbon dioxide fire extinguishers to fight the fire; follow the operating instructions of the fire extinguishers. Only try to fight the fire if you can do so without putting your own safety at risk and if the escape route is clear.
- If the fire cannot be extinguished immediately, do not continue fire fighting efforts. Evacuate the wind energy converter and any ancillary buildings, and leave the WEC. Cordon off a wide area around the WEC.
- If it is no longer possible to descend safely in the tower, climb up into the nacelle and use rescue equipment (abseiling device) to leave the nacelle through the winch hatch.
- Notify the technical manager of the relevant utility company.
- Clear access roads for emergency services.
- Notify ENERCON Service.



If the *Maintenance* status has been activated during service work on the wind energy converter, any signals generated by smoke detectors and other sensors are **not** transmitted to ENERCON Service.

### Maintenance

In the event of a SCADA system fault a corresponding message is sent to the ENERCON Service Center that will then initiate troubleshooting measures at once. The smoke detectors and the SCADA system are inspected in the setting of the annual electrical maintenance. Inspection and maintenance of fire extinguishers is performed in accordance with national regulations.

## Optischer Rauchschalter ORS 142

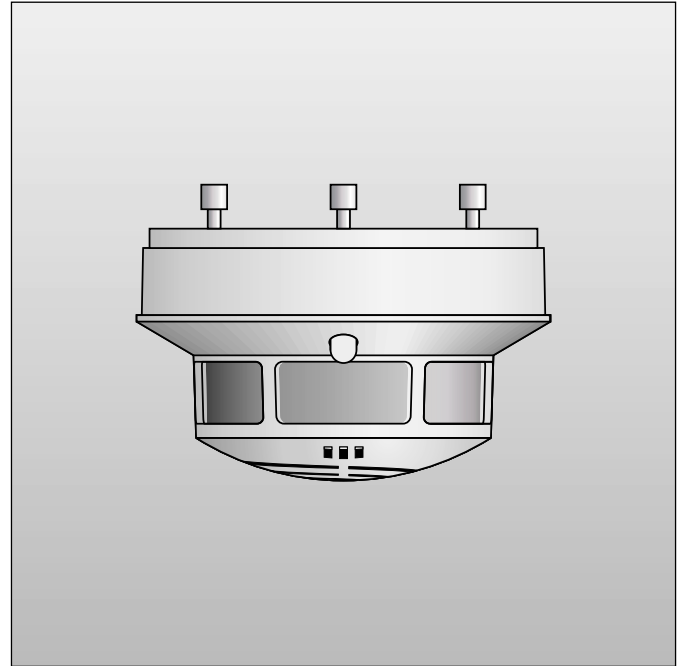
## Détecteur de fumée optique ORS 142

## ORS 142 optical smoke switch

- optische Rauchererkennung
- Verschmutzungsanzeige
- Alarmschwellennachführung
- kommunikationsfähig
- Meßkammerüberwachung
- potentialfreier Öffner

- détection de fumée optique
- indicateur de colmatage
- correction du seuil d'alarme
- communication
- surveillance par chambre de mesure
- contact d'ouverture exempt de potentiel

- Optical smoke detection
- Contamination warning
- Auto contamination compensation
- Communications capability
- Sensing chamber monitoring
- NC volt-free contact



Der optische Rauchschalter ORS 142 erkennt frühzeitig sowohl Schwelbrände als auch offene Brände mit Rauchentwicklung. Ein zusätzlicher Temperaturfühler spricht bei einer Umgebungstemperatur von 70 °C an. Er wird vorzugsweise in Feststellanlagen und maschinellen Rauchabzugsanlagen eingesetzt. Der ORS 142 löst den bisherigen Rauchschalter ORS 132 ab.

Le détecteur de fumée optique ORS 142 décèle rapidement aussi bien les feux couvants que les feux déclarés avec émission de fumée.

Un capteur thermique supplémentaire se déclenche automatiquement à partir d'une température ambiante de 70°C.

Ce dispositif s'utilise de préférence pour les contrôles automatiques des portes et systèmes de désenfumage mécaniques

The ORS 142 optical smoke switch reacts promptly to smouldering fires as well as to flaming fires that develop smoke. An additional temperature sensor is triggered at an ambient temperature of 70 °C.

Its principal application is for door holder/closer systems and powered smoke ventilation systems.

Der ORS 142 arbeitet nach dem Streulichtprinzip. Lichtsender und -empfänger sind in der Meßkammer so angeordnet, daß das Licht des Senders den Empfänger nicht direkt trifft. Erst das an Schwebeteilchen gestreute Licht gelangt zum Empfänger.

Die Auswerteelektronik des ORS 142 überwacht den Rauchmeßteil des Melders zusätzlich auf leichte Verschmutzung, starke Verschmutzung und Störung (Meßkammerausfall). Die jeweiligen Betriebszustände zeigt der ORS 142 optisch an.

Eine Langzeit-Alarmschwellennachführung sorgt für einen gleichbleibenden Abstand zwischen Grundsignal und Alarmschwelle, bis der Grenzwert für starke Verschmutzung erreicht ist.

Ein Relaiskontakt öffnet bei Alarm sowie bei Spannungsausfall.

### Kommunikation

Der ORS 142 meldet seinen Funktionszustand über Stift 3 an eine RZA 142 (Rauchschalter-Zustandsanzeige). Hier werden ebenfalls die Zustände mit farbigen LEDs optisch angezeigt.

Wird der ORS 142 an ein RSI (Rauchschalter-Interface) angeschlossen, können die Melderzustände mit einem PC abgefragt werden. Mit einem Modem können RSI und PC über eine Postleitung kommunizieren.

L'ORS 142 fonctionne sur le principe de la lumière diffuse. L'émetteur et le récepteur de lumière sont positionnés dans la chambre de mesure de manière que la lumière provenant de l'émetteur ne parvienne pas directement au récepteur, mais seulement sous forme de lumière diffusée sur les particules en suspension.

L'unité d'évaluation électronique de l'ORS 142 surveille le dispositif de mesure de fumée du détecteur afin de déceler l'encrassement, faible ou important, ainsi que les pannes (défaillances de la chambre de mesure). Les états de fonctionnement de l'ORS 142 sont signalés de manière optique. Le dispositif de correction du seuil d'alarme assure un écart constant entre le signal de base et le seuil d'alarme, et ceci jusqu'à ce que la valeur limite d'encrassement important soit atteinte.

Un contact de relais s'ouvre en cas d'alarme ou d'absence de courant.

### Communication

L'ORS 142 signale son état de fonctionnement au niveau de l'ergot 3 de l'indicateur de fonctionnement RZA 142. Des DEL de couleur signalent également les états de fonctionnement de manière optique. Lorsque l'ORS 142 est branché sur une interface de détecteur de fumée, il est possible de vérifier l'état de fonctionnement du détecteur à partir d'un PC. À l'aide d'un modem, l'interface et le PC peuvent communiquer par une ligne téléphonique.

The ORS 142 operates on the light scatter principle. Inside the sensing chamber a light source and a light sensor are arranged so that the light normally does not fall on the sensor. It is only when airborne particles enter the chamber that light is scattered onto the sensor.

The ORS 142 electronic circuitry also monitors the smoke detection system for slight contamination (dust and dirt build-up), heavy contamination and faults (sensing chamber failure). LEDs provide an optical indication of the operating status of the ORS 142. A long-term compensation function automatically maintains a constant difference between the quiescent signal and the alarm threshold, until a set limit indicating heavy contamination is reached.

A relay contact opens in the alarm condition or on power failure.

### Communications

The ORS 142 signals its functional status via pin 3 to an RZA 142 smoke switch status indicator, whose coloured LEDs give an additional remote optical indication of the instrument's condition.

If the ORS 142 is linked to an RSI smoke switch interface, detector status can be scanned from a PC. The RSI and the PC can also communicate over a telecommunications line.

### DIBt-Zulassungen für:

|                                |                          |
|--------------------------------|--------------------------|
| Feststellanlagen               | Z-6.5-1571<br>Z-6.5-1725 |
| maschinelle Rauchabzugsanlagen | Z-78.5-15                |

### Homologations DIBt pour :

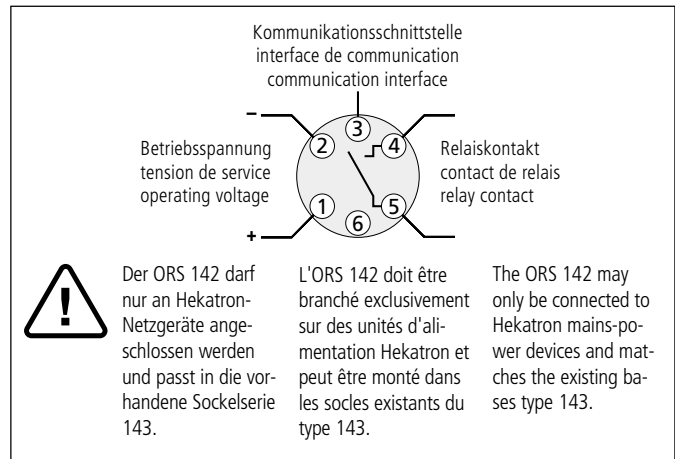
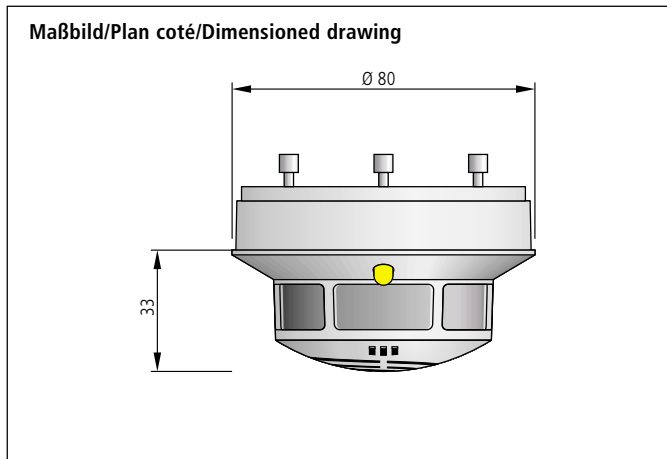
|                                    |                          |
|------------------------------------|--------------------------|
| Équipements coupe-feu              | Z-6.5-1571<br>Z-6.5-1725 |
| Systèmes de désenfumage mécaniques | Z-78.5-15                |

### DIBt approvals for:

|                                   |                          |
|-----------------------------------|--------------------------|
| Hold-open systems                 | Z-6.5-1571<br>Z-6.5-1725 |
| Powered smoke ventilation systems | Z-78.5-15                |

**Technische Daten/Caractéristiques techniques/Technical data**

|                               |                                      |                                      |                               |
|-------------------------------|--------------------------------------|--------------------------------------|-------------------------------|
| nach/selon/to EN 54, Teil 7   | Rauch                                | Fumée                                | Smoke                         |
| 70 °C                         | Temperatur                           | Température                          | Temperature                   |
| 18 bis/à/to 28 VDC            | Betriebsspannung                     | Tension de service                   | Operating voltage             |
|                               | Stromaufnahme bei 28 V <sub>DC</sub> | Consommation pour 28 V <sub>DC</sub> | Current draw at 28 V DC       |
| max. 21 mA                    | in Ruhe                              | au repos                             | quiescent                     |
| max. 10 mA                    | bei Alarm                            | en cas d'alarme                      | in alarm                      |
| max. 25 mA                    | bei Störung                          | en cas de défaillance                | in fault                      |
| Öffner/contact d'ouverture/NC | Relaiskontakte                       | Contacts de relais                   | Relay contact                 |
| max. 30 VDC                   | Schaltspannung                       | Tension d'enclenchement              | switched voltage              |
| max. 1 A                      | Schaltstrom                          | Courant d'enclenchement              | switched current              |
| max. 30 W                     | Schaltleistung                       | Puissance de rupture                 | switched power                |
| IP 42                         | Schutzart                            | Indice de protection                 | Ingress protection            |
| -20 bis/à/to +80 °C           | Betriebsumgebungstemperatur          | Température ambiante d'exploitation  | Ambient operating temperature |
| 120 g                         | Gewicht                              | Poids                                | Weight                        |



**Relais/Relais/Relay**

**Einzelanzeige/Affichage individuel/LED**

|   |  |                    |   |
|---|--|--------------------|---|
| Betrieb<br>en service<br>in operation                             |  | grün/vert/green    | — |
| leicht verschmutzt<br>légèrement encrassé<br>slight contamination |  | grün/vert/green    |   |
| stark verschmutzt<br>encrassé<br>heavy contamination              |  | grün/vert/green    |   |
| Störung<br>défaillance<br>fault                                   |  | gelb/jaune/yellow  | — |
| Alarm<br>alarme<br>alarm  |  | rot/rouge/red      | — |
| spannungslos<br>hors tension<br>power off                         |  | dunkel/sombre/dark | — |

**Bestelldaten/Références/Ordering data**

|           |         |                                   |                                    |  |
|-----------|---------|-----------------------------------|------------------------------------|--|
| 5 000 552 | ORS 142 | Rauchschalter, weiß nach RAL 9010 | Détecteur de fumée, blanc RAL 9010 | Smoke switch, white (DIN shade RAL 9010) |
|           |         | andere Farben auf Anfrage         | autres couleurs sur demande        | other colours on request                 |

Technische Änderungen sowie Liefermöglichkeiten vorbehalten.

Sous réserve de modifications techniques ainsi que de possibilités de livraison.

Specifications subject to change without notice. Delivery subject to availability.

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**HEKATRON**  
Sicherheitssysteme

Ein Unternehmen der  
**Schweizer Securitas Gruppe**

Une entreprise du  
**Groupe suisse Securitas**

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**Swiss Securitas Group**

## WIND ENERGY CONVERTER CHARACTERISTICS E-101

| <b>Rotor</b>        |                            |
|---------------------|----------------------------|
| Type                | E-101                      |
| Rotor diameter      | 101 m                      |
| Swept area          | 8012 m <sup>2</sup>        |
| Power regulation    | Pitch                      |
| RPM                 | 4 – 14,5 min <sup>-1</sup> |
| Cut in wind         | 2,5 m/s                    |
| Cut out wind        | 28 – 34 m/s                |
| Survival wind speed | 59,5 m/s                   |

| <b>Gear Box</b> |            |
|-----------------|------------|
| Not applicable  | No gearbox |

| <b>Blades</b>        |             |
|----------------------|-------------|
| Manufacturer         | ENERCON     |
| Blade length         | 48,5 m      |
| Material             | GRP (Epoxy) |
| Lightning protection | included    |

| <b>Generator</b>          |   |
|---------------------------|---|
| Manufacturer              | ENERCON                                 |
| Nominal Power             | 3000 kW                                 |
| Type (model)              | Synchronous, direct-drive ringgenerator |
| Protection classification | IP 23                                   |
| Insulation class          | F                                       |

| <b>Yaw System</b> |                                    |
|-------------------|------------------------------------|
| Type              | electrical motors                  |
| Yaw control       | Active (based on wind vane signal) |
| Yaw rate          | 0,5°/sec                           |

| <b>Controller</b>    |                                  |
|----------------------|----------------------------------|
| Manufacturer         | ENERCON                          |
| Type                 | microprocessor                   |
| Grid connection      | Via ENERCON inverter             |
| Remote communication | ENERCON Remote Monitoring System |
| UPS                  | included                         |

| <b>Braking System</b> |  |
|-----------------------|--|
| Aerodynamic brake     | <ul style="list-style-type: none"> <li>- three independent blade pitch systems with emergency supply</li> <li>- rotor brake</li> <li>- rotor lock, locking at 30°</li> </ul> |

| <b>Tower</b>      |                 |                 |  |
|-------------------|-----------------|-----------------|--|
| Hub heights       | 99 m            | 135 m           |  |
| Tower             | Prefab concrete | Prefab concrete |  |
| Design Wind Class | <b>IIA</b>      | <b>IIA</b>      |  |

Sources: Design Assessment

|   |                |             |   |
|---|----------------|-------------|---|
| © by ENERCON GmbH. All rights reserved. |                |             |   |
| Created/Date:                           | M. Lüninghoner | Checked:    | AH/09/2009                                  |
| Dpt.:                                   | SL_HB          | Approved:   | SL_HB_WEC Characteristics_E-101_Rev001_eng- |
| Revision:                               | 001/31.03.2010 | Reference : | eng.doc                                     |

# FUNDAMENT-DATENBLATT FOUNDATION DATA SHEET

## E-101/BF/133/27/01

WZ III (DIBt- Richtlinie Fassung 2004, Anhang B)  
WZ 4; GK I (DIN 1055-4: 2005-03)  
WTC II A (IEC 61400-1, 3rd edition, 2005-08)  
WEA-Klasse II A (DIN EN 61400-1, 2006-07)

Bauteil: **Fundament– Flachgründung ohne Auftriebswirkung**  
Component: **Foundation – Flat Foundation without Buoyancy**

8107894074-7 E I

**Reviewed**  
Essen, 20. April 2011  
*S. Möller*  
S. Möller Expert of  
TÜV NORD SysTec GmbH & Co. KG

**TÜV NORD**  
20. APR. 2011

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| Author/ date:                | MFE / 2011-02-09   | Translator / date:                             | -  |
| Department:                  | WRD-K              | Revisor / date:                                | -  |
| Approved / date:             | TE / 2011-02-09    | Reference:                                     | WRD-K-04-FDB-FEB-E-101_BF_133_27_01-Rev_1-EN |
| Revision / date:             | MFE 1 / 2011-03-14 |  |  |



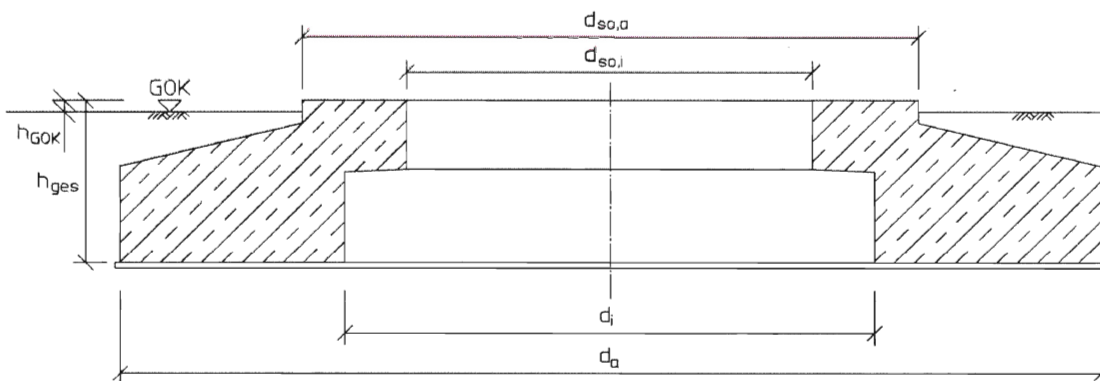
## 1.0 General information

Design-specific structural analysis:

Structural calculation by ENERCON GmbH,  
 E-101/BF/133/27/01  
 Flat foundation without buoyancy –  $\varnothing$  20.90 m  
 Revision 1 – 14.03.2011

## 2.0 Foundation dimensions

|   |            |                    |
|---|------------|--------------------|
| Outer diameter  | $d_a$      | 20.90 m            |
| Inner diameter  | $d_i$      | 11.20 m            |
| Base diameter – outside                                 | $d_{so,a}$ | 13.50 m            |
| Base diameter – inside                                  | $d_{so,i}$ | 8.50 m             |
| Foundation height                                       | $h_{ges}$  | 3.10 m             |
| Base height   | $h_{so}$   | 0.40 m             |
| Spur incline height                                     | $h_n$      | 0.60 m             |
| Spur height   | $h_{sp}$   | 2.10 m             |
| Difference between foundation top edge and ground level | $h_{gok}$  | 0.20 m             |
| Concrete quality and volume                             | C 30/37    | 677 m <sup>3</sup> |
| Reinforcement steel and weight                          | B 500B     | 68.6 t             |



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| Approved / date:             | TE / 2011-02-09    | Reference:                                     | WRD-K-04-FDB-FEB-E-101_BF_133_27_01-Rev_1-EN |
| Revision / date:             | MFE 1 / 2011-03-14 |  |  |

### 3.0 Minimum rocking spring stiffness

Observe the following minimum values with regard to elastic clamping between foundation and subsoil:

|   |   |
|---|---|
| <b>Total system</b><br>(tower and foundation) | <b><math>k_{\phi,stat}</math></b><br><b>15000 [MNm/rad]</b> |
|   | <b><math>k_{\phi,dyn}</math></b><br><b>150000 [MNm/rad]</b> |

The resulting required dynamic stiffness moduli ( $E_{oed,dyn}$ ) depend on the foundation dimensions and Poisson's ratio.

Equivalent radius of a circle with the same stiffness:

$$r = 10.23 \text{ m}$$

The following applies to circular foundations:

$$k_{\phi} = \frac{8 \cdot G \cdot r^3}{3 \cdot (1 - \nu)}$$

This means that

$$E_{oed,dyn} = k_{\phi} \cdot \frac{3}{4} \cdot \frac{1}{r^3} \cdot \frac{(1 + \nu) \cdot (1 - \nu)^2}{1 - \nu - 2 \cdot \nu^2} \quad \text{where}$$

$G$  = shear modulus  
 $r$  = radius  
 $\nu$  = Poisson's ratio

### 4.0 Allowed inclination

Maximum allowed inclination due to subsoil settlement within 20 years, related to the outer diameter.

$$\Delta s \leq 40 \text{ mm}$$

### 5.0 Soil bearing pressure

The in-situ subsoil must be able to bear a minimum pressure of  $\sigma_{k,vorh} = 401 \text{ kN/m}^2$ .


  
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| Department:                  | WRD-K              | Revisor / date:                                | -  |
| Approved / date:             | TE / 2011-02-09    | Reference:                                     | WRD-K-04-FDB-FEB-E-101_BF_133_27_01-Rev_1-EN |
| Revision / date:             | MFE 1 / 2011-03-14 |  |  |

## 6.0 Loads at the bottom edge of the foundation

The  $F_z$  loads indicated include the dead weight of the foundation  $\gamma = 25 \text{ kN/m}^3$  and soil weight  $\gamma = 18 \text{ kN/m}^3$  when dry.

### 6.1 Characteristic load cases

| Load case | ( $\gamma_{aero}/\gamma_{mass}$ ) | $F_{xy}$<br>[kN] | $F_z$<br>[kN] | $M_{xy}$<br>[kNm] | $M_z$<br>[kNm] |
|-----------|-----------------------------------|------------------|---------------|-------------------|----------------|
| DLC 1.0   | (1.00/1.00)                       | 1100             | -36707        | 103954            | -              |
| DLC 3.2   | (1.00/1.00)                       | 1470             | -36790        | 153801            | -8420          |
| DLC 6.2   | (1.00/1.00)                       | 1700             | -36590        | 189565            | -8590          |

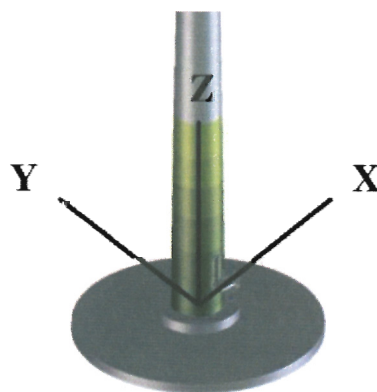
Loads do not include partial safety factor ( $\gamma_F = 1.0$ )

### 6.2 Load case design values

| Load case | ( $\gamma_{aero}/\gamma_{mass}$ ) | $F_{xy}$<br>[kN] | $F_z$<br>[kN] | $M_{xy}$<br>[kNm] | $M_z$<br>[kNm] |
|-----------|-----------------------------------|------------------|---------------|-------------------|----------------|
| DLC 3.2   | (1.35/1.35)                       | 2110             | -49067        | 217115            | -11600         |
| DLC 3.2   | (1.35/1.00)                       | 2110             | -36808        | 217115            | -11600         |

All loads include partial safety factors

## 7.0 Coordinate system



In der folgenden Tabelle sind die Gewichte der Transport- und Aufbaueinheiten der E-101 angegeben. Es ist zu beachten, dass es sich dabei um ca.-Angaben handelt. Bei den Einzelgewichten sind jeweils die notwendigen Transport- und Aufbauvorrichtungen berücksichtigt, das angegebene Gondelgesamtgewicht entspricht der Turmkopfmasse nach Fertigstellung der Anlage.

In the following table the weights of the transport and installation component-assemblies of the E-101 are given. It is to be noted that the values are approximated. The weights include the necessary transport and installation devices, the given value for overall nacelle weight corresponds to the tower head mass after completion of the turbine.

| Transport                      | Transport                      |           |   |
|--------------------------------|--------------------------------|-----------|---|
| Rotorblatt mit HKS             | Rotor blade with fin           | ca. 21,0  | t |
| 3x HKS                         | 3x Fin                         | ca. 2,4   | t |
| Rotornabe                      | Rotor hub                      | ca. 50,0  | t |
| Generator                      | Generator                      | ca. 83,0  | t |
| Gondel (Maschinenträger etc.)  | Nacelle (main carrier etc.)    | ca. 59,0  | t |
|                                |                                |           |   |
| Aufbau                         | Installation                   |           |   |
| Rotornabe (incl. Rotorblätter) | Rotor hub (incl. rotor blades) | ca. 115,0 | t |
| Generator                      | Generator                      | ca. 84,0  | t |
| Generator-Stator               | Generator stator               | ca. 52,0  | t |
| Generator-Rotor                | Generator rotor                | ca. 35,0  | t |
| Gondel (Maschinenträger etc.)  | Nacelle (main carrier etc.)    | ca. 59,0  | t |
|                                |                                |           |   |
| Gondelgesamtgewicht            | Overall nacelle weight         | ca.255,0  | t |

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# Sound Power Level of the ENERCON E-101 3.0 MW

**Publisher:**

ENERCON Canada Inc.  
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|                |                      |                  |                                   |
|----------------|----------------------|------------------|-----------------------------------|
| Author/date:   | H.Shahriar /15.06.12 | Translator/date: | N.Nnnn / DD.MM.YY                 |
| Department:    | Sales                | Revisor/date:    | H.Shahriar / 28.05.13             |
| Approved/date: | E. DeGroot/29.05.13  | Reference:       | Annex 12 Sound Power Level E-101d |
| Released/date: | H.Shahriar /29.05.13 |                  |                                   |



The following represents the maximum sound power level of the E-101 3.0 MW for the entire operational range of wind speeds in accordance with the measurement technique IEC 61 400 – 11:2002 and A1:2006.

### Sound Power Level for the E-101 with 3.0 MW rated power

| Hub Height      | 124m        | 135m        |
|-----------------|-------------|-------------|
| 95% rated power | 104.8 dB(A) | 104.8 dB(A) |

1. A tonal audibility of  $\Delta L_{a,k} \leq 2 \text{ dB}$  can be expected over the whole operational range and is valid in the near vicinity of the turbine according to IEC 61 400 -11 ed. 2.
2. Sound power level values provided in the table are valid for the **Operational Mode I**. The respective power curve is the calculated power curve E-101 dated October 2009 (Rev 2.0).
3. Due to typical measurement uncertainties, if the sound power level is measured according to the accepted method, the measured values can differ from the values shown in this document in the range of +/- 1dB.

Accepted measurement method:

IEC 61400-11 ed.2 (“Wind turbine generator systems – Part 11: Acoustic noise measurement techniques; Second edition, 2002 – 12”).

If the difference between tonal noise and background noise during a measurement is less than 6 dB, a higher uncertainty must be considered.

4. The sound power level of a wind turbine depends on several factors such as, but not limited to, regular maintenance and day-to-day operation in compliance with the manufacturer’s operating instructions. Therefore, this data sheet cannot, and is not intended to, constitute an express or implied warranty towards the customer that the E-101 WEC will meet the exact sound power level as shown in this document at any project specific site.

|                |                      |                  |                                   |
|----------------|----------------------|------------------|-----------------------------------|
| Author/date:   | H.Shahriar /15.06.12 | Translator/date: | N.Nnnn / DD.MM.YY                 |
| Department:    | Sales                | Revisor/date:    | H.Shahriar / 28.05.13             |
| Approved/date: | E. DeGroot/29.05.13  | Reference:       | Annex 12 Sound Power Level E-101d |
| Released/date: | H.Shahriar /29.05.13 |                  |                                   |

## Summary of Test Report (Measured hub height of 99 m) /1/

Master Data Sheet "Geräusche" (Noise), in accordance with  
 "Technische Richtlinien für Windenergieanlagen, Teil 1: Bestimmung der Schallemissionswerte"  
 (Technical Guidelines for Wind Turbine Generators, Part 1: Determination of sound emission values)

Rev. 18 of February 1, 2008 (Editor: Fördergesellschaft Windenergie e.V. Stresemannplatz 4, D-24103 Kiel)

Extract of Test Report 213122-02.01 IEC  
 on noise emission of wind turbine generator of type E-101

| General Data   |   | Technical Data (manufacturer's specifications)                                |                            |
|--|---|---|----------------------------|
| Manufacturer of WTG:                                     | Enercon GmbH                                      | Rated power (generator):  | 3,050 (3,250) kW           |
| Serial number:   | 1010002   | Diameter of rotor:  | 101 m                      |
| Location of WTG (approx.):                               | 49733 Haren                                       | Hub height above ground:  | 99 m                       |
| Geographic co-ordinates:                                 | GK longitude: 25.76.214<br>GK latitude: 58.59.856 | Type of tower:  | conical tubular concrete   |
|  |   | Power control:  | Pitch                      |
| Complementary rotor data (manufacturer's specifications) |   | Complementary data of gear unit and generator (manufacturer's specifications) |                            |
| Manufacturer of rotor blade:                             | Enercon   | Manufacturer of gear unit:  | not applicable             |
| Type of rotor blade:                                     | E-101-1   | Type of gear unit:  | not applicable             |
| Blade setting angle:                                     | variable  | Manufacturer of generator:  | Enercon                    |
| Number of rotor blades:                                  | 3   | Type of generator:  | G-101/30-G2                |
| Rotor speed range:                                       | 5 to 14.7 rpm. (mode OM I)                        | Rated speed of generator:   | 5 to 14.7 rpm. (mode OM I) |

Calculated Performance Chart: Performance characteristic E101 3 MW OM I; calculated by ENERCON (Rev. 1.0)

|  | Reference Point                             |                       | Noise emission parameters | Observations |
|--|---|-----------------------|---------------------------|--------------|
|  | standardized wind speed at a height of 10 m | true electrical power |                           |              |
| sound power level $L_{WA,P}$                       | 6 ms <sup>-1</sup>                          | 1,414 kW              | 103.6 dB(A)               |              |
|  | 7 ms <sup>-1</sup>                          | 2,077 kW              | 104.3 dB(A)               |              |
|  | 8 ms <sup>-1</sup>                          | 2,751 kW              | 104.8 dB(A)               |              |
|  | 9 ms <sup>-1</sup>                          | 2,987 kW              | 104.6 dB(A)               | (1)          |
|  | 10 ms <sup>-1</sup>                         | 3,050 kW              | --                        | (2)          |
| tonal audibility $\Delta L_{a,k}$                  | 6 ms <sup>-1</sup>                          | 1,414 kW              | - 1.5 dB                  |              |
|  | 7 ms <sup>-1</sup>                          | 2,077 kW              | 0 dB                      |              |
|  | 8 ms <sup>-1</sup>                          | 2,751 kW              | 0 dB                      |              |
|  | 9 ms <sup>-1</sup>                          | 2,987 kW              | 0 dB                      | (1)          |
|  | 10 ms <sup>-1</sup>                         | 3,050 kW              | --                        | (2)          |
| impulse adjustment for immediate vicinity $K_{IN}$ | 6 ms <sup>-1</sup>                          | 1,414 kW              | 0 dB                      |              |
|  | 7 ms <sup>-1</sup>                          | 2,077 kW              | 0 dB                      |              |
|  | 8 ms <sup>-1</sup>                          | 2,751 kW              | 0 dB                      |              |
|  | 9 ms <sup>-1</sup>                          | 2,987 kW              | 0 dB                      | (1)          |
|  | 10 ms <sup>-1</sup>                         | 3,050 kW              | --                        | (2)          |

| Third-octave band sound power level for $v_s = 6 \text{ ms}^{-1}$ in dB(A) |      |       |        |       |       |       |       |       |       |       |        |        |  |
|--|------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--|
| Frequency  | 50   | 63    | 80     | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500    | 630    |  |
| $L_{WA,P}$   | 78.3 | 81.8* | 83.0** | 84.2  | 89.6  | 85.7* | 89.2  | 92.7  | 94.1  | 94.6  | 95.1   | 94.9   |  |
| Frequency  | 800  | 1,000 | 1,250  | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000  | 10,000 |  |
| $L_{WA,P}$   | 93.5 | 91.6  | 90.0   | 89.0  | 85.4  | 84.1  | 82.3  | 79.3  | 74.8  | 67.8* | 64.7** | 65.3** |  |

| Octave band sound power level for $v_s = 6 \text{ ms}^{-1}$ in dB(A) |       |      |      |      |       |       |       |
|--|-------|------|------|------|-------|-------|-------|
| Frequency  | 63    | 125  | 250  | 500  | 1,000 | 2,000 | 8,000 |
| $L_{WA,P}$   | 85.6* | 91.9 | 97.2 | 99.6 | 96.7  | 91.5  | 70.3* |

| Third-octave band sound power level for $v_s = 7 \text{ ms}^{-1}$ in dB(A) |      |       |       |       |       |       |       |       |       |       |        |        |  |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--|
| Frequency  | 50   | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500    | 630    |  |
| $L_{WA,P}$   | 78.9 | 83.3  | 84.0  | 84.9  | 88.2  | 86.4* | 89.6  | 94.7  | 94.9  | 95.4  | 95.8   | 95.5   |  |
| Frequency  | 800  | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000  | 10,000 |  |
| $L_{WA,P}$   | 94.0 | 92.0  | 90.4  | 89.3  | 86.1  | 84.7  | 82.9  | 79.9  | 74.4* | 68.4* | 64.6** | 62.7** |  |

| Octave band sound power level for $v_s = 7 \text{ ms}^{-1}$ in dB(A) |      |      |      |       |       |       |        |
|--|------|------|------|-------|-------|-------|--------|
| Frequency  | 63   | 125  | 250  | 500   | 1,000 | 2,000 | 8,000  |
| $L_{WA,P}$   | 87.3 | 91.5 | 98.4 | 100.3 | 97.1  | 91.9  | 71.5** |

| Third-octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A) |      |       |       |       |       |       |       |        |       |       |        |        |
|--|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|
| Frequency  | 50   | 63    | 80    | 100   | 125   | 160   | 200   | 250    | 315   | 400   | 500    | 630    |
| $L_{WA,P}$   | 82.1 | 82.8  | 84.4  | 88.4  | 86.8  | 90.1  | 94.8  | 95.0   | 95.6  | 96.3  | 96.2   | 82.1   |
| Frequency  | 800  | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000  | 5,000 | 6,300 | 8,000  | 10,000 |
| $L_{WA,P}$   | 95.0 | 93.3  | 91.5  | 90.4  | 86.7  | 85.4  | 83.7  | 80.9   | 75.9  | 69.7* | 67.1** | 65.5** |
| Octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A)       |      |       |       |       |       |       |       |        |       |       |        |        |
| Frequency  | 63   | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000  |       |       |        |        |
| $L_{WA,P}$   | 86.3 | 91.6  | 98.6  | 100.8 | 98.3  | 92.8  | 86.0  | 73.3** |       |       |        |        |
| Third-octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A) |      |       |       |       |       |       |       |        |       |       |        |        |
| Frequency  | 50   | 63    | 80    | 100   | 125   | 160   | 200   | 250    | 315   | 400   | 500    | 630    |
| $L_{WA,P}$   | 78.6 | 81.9  | 82.4* | 83.9  | 87.8  | 85.9* | 88.6  | 93.8   | 94.2  | 95.1  | 96.0   | 96.3   |
| Frequency  | 800  | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000  | 5,000 | 6,300 | 8,000  | 10,000 |
| $L_{WA,P}$   | 95.4 | 93.8  | 92.3  | 91.0  | 87.4  | 86.0  | 84.1  | 81.1   | 76.7  | 71.7  | 68.4   | 66.8*  |
| Octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A)       |      |       |       |       |       |       |       |        |       |       |        |        |
| Frequency  | 63   | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000  |       |       |        |        |
| $L_{WA,P}$   | 86.0 | 90.8  | 97.6  | 100.6 | 98.8  | 93.5  | 86.4  | 74.2   |       |       |        |        |

This summary of the test report is valid only in combination with the manufacturer's certificate dated 12/03/2013.

**These specifications do not replace the test report mentioned above (particularly for noise immission predictions).**

- Observations:
- (1) Maximum value of standardized wind speed during the WTG-operation measurement  $v_s = 8,9 \text{ m/s}$
  - (2) Due to weather conditions, no data available during WTG operation
- \* Difference between working and background noise < 6 dB, correction by 1.3 dB  
 \*\* Difference between working and background noise < 3 dB, values shall not be presented

/1/ Wind turbine generator systems – Part 11: Acoustic noise; measurement techniques (IEC 61400-11:2002 and A1:2006); German version DIN EN 61400-11:2007

Measured by: KÖTTER Consulting Engineers  
 - Rheine -




Dipl.-Ing. Oliver Bunk      Matthias Humpohl, B.Sc.

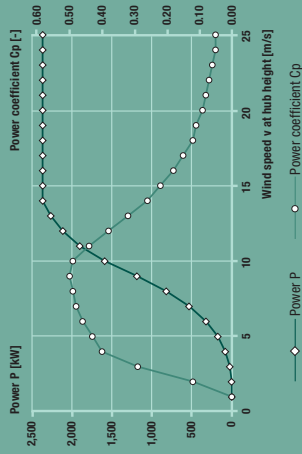
Date: 23/04/2013

# E82

## 2,300 kW



### Calculated power curve



| Wind [m/s] | Power P [kW] | Power coefficient Cp [-] |
|------------|--------------|--------------------------|
| 1          | 0.0          | 0.00                     |
| 2          | 3.0          | 0.12                     |
| 3          | 25.0         | 0.29                     |
| 4          | 82.0         | 0.40                     |
| 5          | 174.0        | 0.43                     |
| 6          | 321.0        | 0.46                     |
| 7          | 532.0        | 0.48                     |
| 8          | 815.0        | 0.49                     |
| 9          | 1,180.0      | 0.50                     |
| 10         | 1,580.0      | 0.49                     |
| 11         | 1,890.0      | 0.44                     |
| 12         | 2,100.0      | 0.38                     |
| 13         | 2,250.0      | 0.32                     |
| 14         | 2,350.0      | 0.26                     |
| 15         | 2,350.0      | 0.22                     |
| 16         | 2,350.0      | 0.18                     |
| 17         | 2,350.0      | 0.15                     |
| 18         | 2,350.0      | 0.12                     |
| 19         | 2,350.0      | 0.11                     |
| 20         | 2,350.0      | 0.09                     |
| 21         | 2,350.0      | 0.08                     |
| 22         | 2,350.0      | 0.07                     |
| 23         | 2,350.0      | 0.06                     |
| 24         | 2,350.0      | 0.05                     |
| 25         | 2,350.0      | 0.05                     |

$\rho = 1.225 \text{ kg/m}^3$

For more information on the ENERCON power curve, please see the last page.

### Technical specifications E-82 E2

**Rated power:** 2,300 kW  
**Rotor diameter:** 82 m  
**Hub height:** 78 m / 85 m / 98 m / 108 m / 138 m  
**Wind zone (DIB):** WZ III  
**Wind class (IEC):** IEC/NW1 IIA

**Drive train with generator:**  
**Hub:** Rigid  
**Main bearing:** Double-row tapered / cylindrical roller bearings  
**Generator:** ENERCON direct-drive annular generator

**WEC concept:** Gearless, variable speed  
**Brake systems:** Single blade adjustment

**Grid feed:** ENERCON inverter  
**Brake systems:** – 3 independent pitch control systems with emergency power supply  
 – Rotor brake  
 – Rotor lock

**Rotor:**  
**Type:** Upwind rotor with active pitch control  
**Rotational direction:** Clockwise

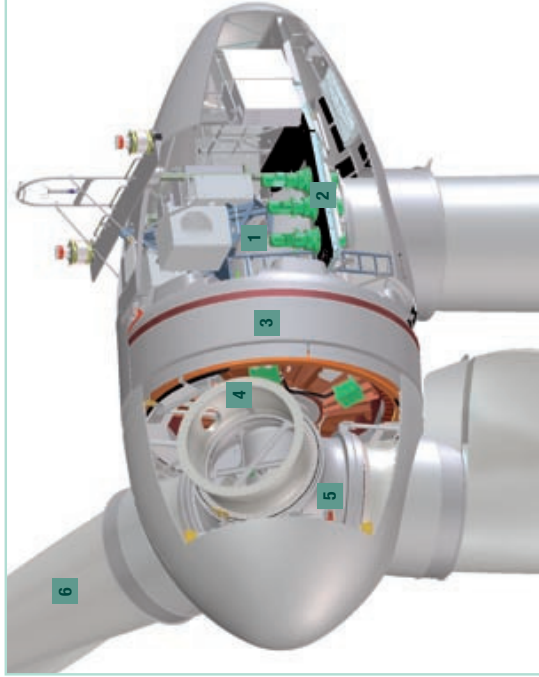
**Yaw system:** Active via yaw gear, load-dependent damping

**No. of blades:** 3  
**Swept area:** 5,281 m<sup>2</sup>  
**Blade material:** GRP (epoxy resin); Built-in lightning protection

**Cut-out wind speed:** 28–34 m/s (with ENERCON storm control\*)  
**Remote monitoring:** ENERCON SCADA

**Rotational speed:** Variable, 6–18 rpm  
**Pitch control:** ENERCON single blade pitch system; one independent pitch system per rotor blade with allocated emergency supply

**\*For more information on the ENERCON storm control feature, please see the last page.**



## WIND ENERGY CONVERTER CHARACTERISTICS

### E-82 E2 2.3MW

| <b>Rotor</b>        |                          |
|---------------------|--------------------------|
| Type                | E82 E2                   |
| Rotor diameter      | 82 m                     |
| Swept area          | 5281 m <sup>2</sup>      |
| Power regulation    | Pitch                    |
| RPM                 | 6 – 18 min <sup>-1</sup> |
| Cut in wind         | 2,5 m/s                  |
| Cut out wind        | 28 – 34 m/s              |
| Survival wind speed | 59,5 m/s                 |

| <b>Gear Box</b> |            |
|-----------------|------------|
| Not applicable  | No gearbox |

| <b>Blades</b>        |             |
|----------------------|-------------|
| Manufacturer         | ENERCON     |
| Blade length         | 38,8 m      |
| Material             | GRP (Epoxy) |
| Lightning protection | included    |

| <b>Generator</b>          |   |
|---------------------------|---|
| Manufacturer              | ENERCON                                 |
| Nominal Power             | 2300 kW                                 |
| Type (model)              | Synchronous, direct-drive ringgenerator |
| Protection classification | IP 23                                   |
| Insulation class          | F                                       |

| <b>Yaw System</b> |                                    |
|-------------------|------------------------------------|
| Type              | 6 electrical motors                |
| Yaw control       | Active (based on wind vane signal) |
| Yaw rate          | 0,5°/sec                           |

| <b>Controller</b>    |                                  |
|----------------------|----------------------------------|
| Manufacturer         | ENERCON                          |
| Type                 | microprocessor                   |
| Grid connection      | Via ENERCON inverter             |
| Remote communication | ENERCON Remote Monitoring System |
| UPS                  | included                         |

| <b>Braking System</b> |  |
|-----------------------|--|
| Aerodynamic brake     | <ul style="list-style-type: none"> <li>- three independent blade pitch systems with emergency supply</li> <li>- rotor brake</li> <li>- rotor lock, locking at 30°</li> </ul> |

| <b>Tower</b>         |                   |   |   |  |  |
|----------------------|-------------------|---|---|--|--|
| Hub heights          | 78 m              | 85 m                                      | 98 m                                      | 108 m                                  | 138 m                                  |
| Tower                | Steel<br>(4 + FS) | Steel +<br>Prefab<br>concrete<br>(2 + 15) | Steel +<br>Prefab<br>concrete<br>(2 + 18) | Steel + Prefab<br>concrete<br>(2 + 21) | Steel + Prefab<br>concrete<br>(2 + 21) |
| Design Wind<br>Class | II                | II  | II  | II                                     | II                                     |

| <b>Weights</b>               |                       |
|------------------------------|-----------------------|
| Nacelle, excl. Rotor and hub | Approx. 18 to         |
| Rotor incl. Hub/Main pin     | Approx. 55 to         |
| Generator                    | Approx. 62 to         |
| <b>Total Weight</b>          | <b>Approx. 135 to</b> |

*Sources: Design Assessment, Manufacturers Certificate*



| <b>Summary of Test Report</b>   |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
|---|--|----------------------------|-----------------------|-----------|---------------------------|--|-------|----------------------------|-------|-------|-------|--------|
| <b>(Measured hub height of 108 m) /1/</b>   |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
| Basic sheet "Geräusche" (Noise), according to the   |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
| "Technische Richtlinien für Windenergieanlagen, Teil 1: Bestimmung der Schallemissionswerte"              |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
| (Technical Guidelines for Wind Energy Converters, Part 1: Determination of sound emission values)         |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
| Rev. 18 of February 1, 2008 (Editor: Fördergesellschaft Windenergie e.V. Stresemannplatz 4, D-24103 Kiel) |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
| Extract of Test Report 209244-04.01 IEC   |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
| on noise emission of wind energy converter of type E-82 E2  |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
| General Data  |  |                            |                       |           |                           | Technical Data (manufacturer's specifications)                                   |       |                            |       |       |       |        |
| Manufacturer of WEC:  |  | Enercon GmbH               |                       |           |                           | Rated power (generator):   |       | 2.300 kW                   |       |       |       |        |
| Serial number:  |  | 82679                      |                       |           |                           | Diameter of rotor:   |       | 82 m                       |       |       |       |        |
| Location of WEC (ca.):  |  | 26629 Großefehn            |                       |           |                           | Hub height above ground:   |       | 108 m                      |       |       |       |        |
| Geographic co-ordinates:  |  | GK longitude:              |                       | 34.15.287 |                           | Type of tower:   |       | conical tube tower         |       |       |       |        |
|   |  | GK latitude:               |                       | 59.14.701 |                           | Power control:   |       | Pitch                      |       |       |       |        |
| Complementary rotor data<br>(manufacturer's specifications)   |  |                            |                       |           |                           | Complementary data of gear unit and generator<br>(manufacturer's specifications) |       |                            |       |       |       |        |
| Manufacturer of rotor blade:  |  | Enercon                    |                       |           |                           | Manufacturer of gear unit:   |       | not applicable             |       |       |       |        |
| Type of rotor blade:  |  | E-82 E2                    |                       |           |                           | Type of gear unit:   |       | not applicable             |       |       |       |        |
| Blade setting angle:  |  | variable                   |                       |           |                           | Manufacturer of generator:   |       | Enercon                    |       |       |       |        |
| Number of rotor blades:   |  | 3                          |                       |           |                           | Type of generator:   |       | E-82 E2                    |       |       |       |        |
| Rotor speed range:  |  | 6 to 18 r.p.m. (mode OM I) |                       |           |                           | Generator speed range:   |       | 6 to 18 r.p.m. (mode OM I) |       |       |       |        |
| Calculated Performance Chart ENERCON E-82 E2; calculated by ENERCON (Rev. 3.0)                            |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
|   | Reference Point                        |                            |                       |           | Noise emission parameters | Observations   |       |                            |       |       |       |        |
|   | standardized wind speed in 10 m height |                            | true electrical power |           |                           |  |       |                            |       |       |       |        |
| sound power level $L_{WA,P}$  | 5 $ms^{-1}$                            |                            | 579 kW                |           | 96.4 dB(A)                |  |       |                            |       |       |       |        |
|   | 6 $ms^{-1}$                            |                            | 1,089 kW              |           | 100.6 dB(A)               |  |       |                            |       |       |       |        |
|   | 7 $ms^{-1}$                            |                            | 1,612 kW              |           | 102.5 dB(A)               |  |       |                            |       |       |       |        |
|   | 8 $ms^{-1}$                            |                            | 2,032 kW              |           | 103.2 dB(A)               |  |       |                            |       |       |       |        |
|   | 9 $ms^{-1}$                            |                            | 2,255 kW              |           | 103.3 dB(A)               |  |       |                            |       |       |       |        |
| tonal audibility $\Delta L_{a,k}$   | 5 $ms^{-1}$                            |                            | kW                    |           | -2.7 dB                   |  |       |                            |       |       |       |        |
|   | 6 $ms^{-1}$                            |                            | kW                    |           | <- 3.0 dB                 |  |       |                            |       |       |       |        |
|   | 7 $ms^{-1}$                            |                            | kW                    |           | -1.8 dB                   |  |       |                            |       |       |       |        |
|   | 8 $ms^{-1}$                            |                            | kW                    |           | -0.7 dB                   |  |       |                            |       |       |       |        |
|   | 9 $ms^{-1}$                            |                            | kW                    |           | 0.2 dB                    |  |       |                            |       |       |       |        |
| impulse adjustment for small distances $K_{IN}$   | 5 $ms^{-1}$                            |                            | kW                    |           | 0 dB                      |  |       |                            |       |       |       |        |
|   | 6 $ms^{-1}$                            |                            | kW                    |           | 0 dB                      |  |       |                            |       |       |       |        |
|   | 7 $ms^{-1}$                            |                            | kW                    |           | 0 dB                      |  |       |                            |       |       |       |        |
|   | 8 $ms^{-1}$                            |                            | kW                    |           | 0 dB                      |  |       |                            |       |       |       |        |
|   | 9 $ms^{-1}$                            |                            | kW                    |           | 0 dB                      |  |       |                            |       |       |       |        |
| 10 $ms^{-1}$  |  | kW                         |                       | 0 dB      |                           |  |       |                            |       |       |       |        |
| Third-octave band sound power level for $v_s = 5 ms^{-1}$ in dB(A)  |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
| Frequency   | 50                                     | 63                         | 80                    | 100       | 125                       | 160  | 200   | 250                        | 315   | 400   | 500   | 630    |
| $L_{WA,P}$  | 74.1                                   | 76.5*                      | 80.0                  | 85.6      | 82.2                      | 81.7   | 81.9  | 83.7                       | 85.6  | 85.1  | 85.5  | 87.6   |
| Frequency   | 800                                    | 1,000                      | 1,250                 | 1,600     | 2,000                     | 2,500  | 3,150 | 4,000                      | 5,000 | 6,300 | 8,000 | 10,000 |
| $L_{WA,P}$  | 86.9                                   | 86.2                       | 84.8                  | 82.4      | 78.8                      | 75.3   | 70.6  | 65.5                       | 60.3* | 60.3* | 63.0  | 70.3   |
| Octave band sound power level for $v_s = 5 ms^{-1}$ in dB(A)  |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
| Frequency   | 63                                     | 125                        | 250                   | 500       | 1,000                     | 2,000  | 4,000 | 8,000                      |       |       |       |        |
| $L_{WA,P}$  | 82.3                                   | 88.3                       | 88.8                  | 91.0      | 90.8                      | 84.5   | 72.1  | 71.4                       |       |       |       |        |
| Third-octave band sound power level for $v_s = 6 ms^{-1}$ in dB(A)  |  |                            |                       |           |                           |  |       |                            |       |       |       |        |
| Frequency   | 50                                     | 63                         | 80                    | 100       | 125                       | 160  | 200   | 250                        | 315   | 400   | 500   | 630    |
| $L_{WA,P}$  | 78.2**                                 | 79.1*                      | 82.2                  | 85.2      | 87.4                      | 84.3   | 85.0  | 87.3                       | 88.7  | 88.5* | 89.5* | 93.2   |
| Frequency   | 800                                    | 1,000                      | 1,250                 | 1,600     | 2,000                     | 2,500  | 3,150 | 4,000                      | 5,000 | 6,300 | 8,000 | 10,000 |
| $L_{WA,P}$  | 91.7                                   | 91.5                       | 89.9                  | 87.1      | 83.0                      | 79.4   | 74.4  | 69.0                       | 63.5  | 64.4  | 67.4  | 74.3   |

| Octave band sound power level for $v_s = 6 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 84.9*  | 90.6  | 92.0  | 95.7  | 95.9  | 89.0  | 75.8  | 75.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 7 \text{ ms}^{-1}$ in dB(A)  |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 78.6** | 79.8  | 82.7  | 84.8  | 90.8  | 86.2  | 86.0  | 89.7  | 91.0  | 92.5  | 91.7  | 93.9   |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 93.4   | 93.3  | 91.8  | 89.2  | 85.8  | 81.9  | 77.0  | 72.2  | 66.1  | 65.3  | 66.8  | 72.8   |
| Octave band sound power level for $v_s = 7 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 85.5*  | 92.8  | 94.2  | 97.6  | 97.7  | 91.4  | 78.5  | 74.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A)  |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 77.4*  | 80.4  | 83.1  | 84.9  | 91.2  | 86.6  | 86.3  | 90.4  | 91.4  | 92.9  | 92.1* | 94.8   |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 94.2   | 94.1  | 92.6  | 90.1  | 86.7  | 82.7  | 77.8  | 73.3  | 67.7  | 65.8  | 66.6  | 71.4   |
| Octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 85.6   | 93.2  | 94.6  | 98.2  | 98.5  | 92.2  | 79.4  | 73.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A)  |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 78.5   | 81.4  | 83.9  | 85.7  | 92.6  | 88.2  | 86.4  | 90.2  | 90.7  | 91.8  | 91.5* | 93.9   |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 94.0   | 94.4  | 93.4  | 91.5  | 88.4  | 84.6  | 79.9  | 75.4  | 69.3  | 65.5* | 66.4  | 71.5   |
| Octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 86.6   | 94.6  | 94.3  | 97.3* | 98.7  | 93.8  | 81.5  | 73.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 10 \text{ ms}^{-1}$ in dB(A) |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 78.8   | 81.7  | 84.5  | 86.3  | 92.4  | 88.5  | 86.4  | 89.8  | 90.0* | 91.2  | 90.9* | 92.7*  |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 93.3   | 93.9  | 93.3  | 91.5  | 88.8  | 85.2  | 80.7  | 76.5  | 71.9  | 70.4  | 68.5  | 71.8   |
| Octave band sound power level for $v_s = 10 \text{ ms}^{-1}$ in dB(A)       |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 87.0   | 94.6  | 93.7  | 96.5* | 98.3  | 94.0  | 82.5  | 75.2  |       |       |       |        |

This summary of the test report is valid only in combination with the certification of the manufacturer of 03/05/2010.

**These specifications do not replace the test report mentioned above (particularly for noise immission predictions).**

Observations: \* Difference between working and background noise < 6 dB, correction by 1.3 dB  
 \*\* Difference between working and background noise < 3 dB, values shall not be presented

/1/ Wind turbine generator systems – Part 11: Acoustic noise; measurement techniques (IEC 61400-11:2002 and A1:2006);  
 German version DIN EN 61400-11:2007

Measured by: KÖTTER Consulting Engineers  
 - Rheine -




Date: 08/02/2010

i. V. Dipl.-Ing. O. Bunk i. A. Dipl.-Ing. J. Weinheimer

## **ADJACENT WIND FARM**

Siemens states in an email (Youmans, 2011), “The enclosed noise test report [Windtest, 2005] for the SWT 2.3-93 has been used on other applications to demonstrate the lack of any tonal characteristics. A similar report will be issued for the SWT 2.3-101 in the near future, but in the meantime this report has been accepted for proof of tonality since both units share common gearbox, generator, and converter systems.”

Uncertainty in the tonal analysis is mentioned in section 3.6.3 (“Tonality”) of the Windtest (2005) report.

No tonal penalty has been applied to this turbine.

The 10 m broadband and octave band source sound power levels for the Siemens SWT-2.221-101 turbine under its power-reduced operation protocol for a hub height of 99.5 m are shown in Table 1. Note that the ‘Manufacturer’s emission levels’ were only provided for 6 and 8 ms<sup>-1</sup>. For 7-ms<sup>-1</sup>, octave band SPoLs have been interpolated; the 9 and 10-ms<sup>-1</sup> SPoLs have been set equal to the 8-ms<sup>-1</sup> SPoLs.

Table 1 Siemens SWT-2.221-101 – Wind turbine acoustic emissions summary.

| <b>Make and Model: Siemens SWT-2.221-101</b>  |   |              |              |              |              |   |              |              |              |              |
|---|---|--------------|--------------|--------------|--------------|---|--------------|--------------|--------------|--------------|
| <b>Rating: 2,221 kW</b>   |   |              |              |              |              |   |              |              |              |              |
| <b>Hub height (m): 99.5</b>   |   |              |              |              |              |   |              |              |              |              |
| <b>Wind profile adjustment: summer night-time power-law wind shear coefficient = 0.45</b> |   |              |              |              |              |   |              |              |              |              |
|   | <b>Octave band sound power level (dB)</b>           |              |              |              |              |   |              |              |              |              |
|   | <b>Manufacturer’s emission levels (10 m a.g.l.)</b> |              |              |              |              | <b>Adjusted emission levels (10 m a.g.l.)</b> |              |              |              |              |
| <b>Wind speed (ms<sup>-1</sup>)</b>   | <b>6.0</b>  | <b>7.0</b>   | <b>8.0</b>   | <b>9.0</b>   | <b>10.0</b>  | <b>6.0</b>                                    | <b>7.0</b>   | <b>8.0</b>   | <b>9.0</b>   | <b>10.0</b>  |
| <b>Frequency (Hz)</b>   |   |              |              |              |              |   |              |              |              |              |
| <b>63</b>   | 108.3   | n/a          | 108.6        | n/a          | n/a          | 108.6   | 108.6        | 108.6        | 108.6        | 108.6        |
| <b>125</b>  | 109.4   | n/a          | 109.1        | n/a          | n/a          | 109.1   | 109.1        | 109.1        | 109.1        | 109.1        |
| <b>250</b>  | 105.1   | n/a          | 104.6        | n/a          | n/a          | 104.6   | 104.6        | 104.6        | 104.6        | 104.6        |
| <b>500</b>  | 102.2   | n/a          | 103.0        | n/a          | n/a          | 103.0   | 103.0        | 103.0        | 103.0        | 103.0        |
| <b>1000</b>   | 99.1  | n/a          | 100.1        | n/a          | n/a          | 100.1   | 100.1        | 100.1        | 100.1        | 100.1        |
| <b>2000</b>   | 95.4  | n/a          | 95.3         | n/a          | n/a          | 95.3  | 95.3         | 95.3         | 95.3         | 95.3         |
| <b>4000</b>   | 87.8  | n/a          | 88.6         | n/a          | n/a          | 88.6  | 88.6         | 88.6         | 88.6         | 88.6         |
| <b>8000</b>   | 85.5  | n/a          | 86.8         | n/a          | n/a          | 86.8  | 86.8         | 86.8         | 86.8         | 86.8         |
| <b>A-weighted</b>   | <b>104.5</b>  | <b>105.0</b> | <b>105.0</b> | <b>105.0</b> | <b>105.0</b> | <b>105.0</b>                                  | <b>105.0</b> | <b>105.0</b> | <b>105.0</b> | <b>105.0</b> |

### 5.1.2 Siemens SWT-2.126-101

Siemens SWT-2.126-101 turbine broadband source sound power level data for 10-m a.g.l. wind speeds of 4 to 12 ms<sup>-1</sup> and octave band source sound power level data for 10-m a.g.l. wind speeds of 6 and 8 ms<sup>-1</sup> are listed in Siemens A/S documents

Table 2 Siemens SWT-2.126-101 – Wind turbine acoustic emissions summary.

| <b>Make and Model: Siemens SWT-2.126-101</b>  |   |              |              |              |              |   |              |              |              |              |
|---|---|--------------|--------------|--------------|--------------|---|--------------|--------------|--------------|--------------|
| <b>Rating: 2,126 kW</b>   |   |              |              |              |              |   |              |              |              |              |
| <b>Hub height (m): 99.5</b>   |   |              |              |              |              |   |              |              |              |              |
| <b>Wind profile adjustment: summer night-time power-law wind shear coefficient = 0.45</b> |   |              |              |              |              |   |              |              |              |              |
|   | <b>Octave band sound power level (dB)</b>           |              |              |              |              |   |              |              |              |              |
|   | <b>Manufacturer's emission levels (10 m a.g.o.)</b> |              |              |              |              | <b>Adjusted emission levels (10 m a.g.l.)</b> |              |              |              |              |
| <b>Wind speed (ms<sup>-1</sup>)</b>   | <b>6.0</b>  | <b>7.0</b>   | <b>8.0</b>   | <b>9.0</b>   | <b>10.0</b>  | <b>6.0</b>                                    | <b>7.0</b>   | <b>8.0</b>   | <b>9.0</b>   | <b>10.0</b>  |
| <b>Frequency (Hz)</b>   |   |              |              |              |              |   |              |              |              |              |
| <b>63</b>   | 108.8   | n/a          | 108.4        | n/a          | n/a          | 108.4   | 108.4        | 108.4        | 108.4        | 108.4        |
| <b>125</b>  | 109.7   | n/a          | 108.6        | n/a          | n/a          | 108.6   | 108.6        | 108.6        | 108.6        | 108.6        |
| <b>250</b>  | 104.7   | n/a          | 103.4        | n/a          | n/a          | 103.4   | 103.4        | 103.4        | 103.4        | 103.4        |
| <b>500</b>  | 100.5   | n/a          | 101.7        | n/a          | n/a          | 101.7   | 101.7        | 101.7        | 101.7        | 101.7        |
| <b>1000</b>   | 97.4  | n/a          | 99.1         | n/a          | n/a          | 99.1  | 99.1         | 99.1         | 99.1         | 99.1         |
| <b>2000</b>   | 94.8  | n/a          | 94.3         | n/a          | n/a          | 94.3  | 94.3         | 94.3         | 94.3         | 94.3         |
| <b>4000</b>   | 86.9  | n/a          | 88.0         | n/a          | n/a          | 88.0  | 88.0         | 88.0         | 88.0         | 88.0         |
| <b>8000</b>   | 84.6  | n/a          | 86.2         | n/a          | n/a          | 86.2  | 86.2         | 86.2         | 86.2         | 86.2         |
| <b>A-weighted</b>   | <b>103.5</b>  | <b>104.0</b> | <b>104.0</b> | <b>104.0</b> | <b>104.0</b> | <b>104.0</b>                                  | <b>104.0</b> | <b>104.0</b> | <b>104.0</b> | <b>104.0</b> |

## 5.2 SWEC Wind Turbines

### 5.2.1 Siemens SWT-2.221-101

The 10 m broadband and octave source sound power levels for the Siemens SWT-2.221-101 turbine with a hub height of 80 m are shown in Table 3. These values have been taken directly from the Summerhaven project (draft) Noise Study Report (Golder, 2010). It should be noted that Zephyr North has modified the ‘Adjusted’ octave band source sound power level values for 6 and 7 ms<sup>-1</sup> to match the remaining values at 8, 9 and 10 ms<sup>-1</sup>. It is believed that this will more accurately represent the turbine noise characteristics at the relatively higher hub-height wind speeds corresponding to the 10-m wind speeds which would be driven by the high (0.45) summer night-time wind shear.

Golder (2010) makes no mention of tonality with regard to this turbine. Since this turbine is the same power-derated version of the SWT2.3-101 described for the GREP project, it has been assumed for the purposes of this noise assessment report that there is no tonal noise associated with the Summerhaven turbines. No tonal penalty has been applied.

Golder (2010) reports that a summer night-time vertical wind shear of 0.42 was used for hub-height wind speed adjustments.

# V82-1.65 MW

Creating more from less



**Vestas**





## Optimised for low and medium winds

With its large rotor and powerful generator, the V82 outperforms any turbine in its megawatt class for sites with low and medium wind conditions. Our hydraulic Active-Stall® technology ensures that the rotor gathers the maximum power from the prevailing wind, while minimising loads and controlling output. Active-Stall® provides failsafe protection in all conditions and, at and above its rated wind speed, maintains a steady output of 1.65 MW. With the V82, we have designed a wind turbine that offers unparalleled performance at a cost-effective price.

## Low sound level

Vestas has made a concerted effort to reduce the sound level of the V82 dramatically – with audible results. The operating sound levels are among the lowest on the market,

regardless of wind speed. The V82 also comes with a two-speed generator, which makes it possible to cut sound even further to meet specific requirements, e.g. for night time or low-wind operations.

## Excellent grid compatibility

As wind turbines capture more of the electricity market each year, they have an increasingly significant role to play in grid management. Fortunately, the V82 meets even the most stringent grid demands, and with the installation of our advanced grid compliance system, the V82 will actually help stabilise a weak grid. Vestas grid support features full load and dynamic phase compensation to enhance reactive power regulation and thus keep the power factor in range. It has an uninterrupted backup power supply, too, so that auxiliary systems run at full capacity during grid disturbances. Moreover, our grid support provides continuous active and reactive power regulation to maintain voltage balance in the grid, as well as fault ride-through in the event of disturbances.

## High reliability

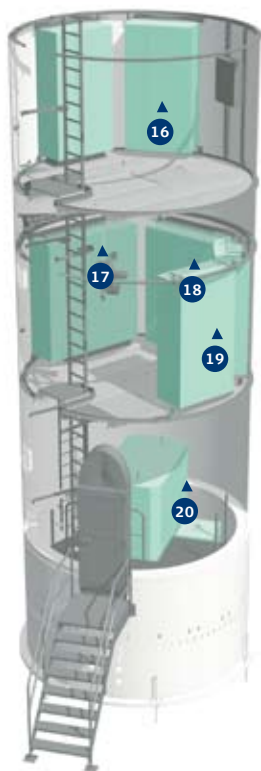
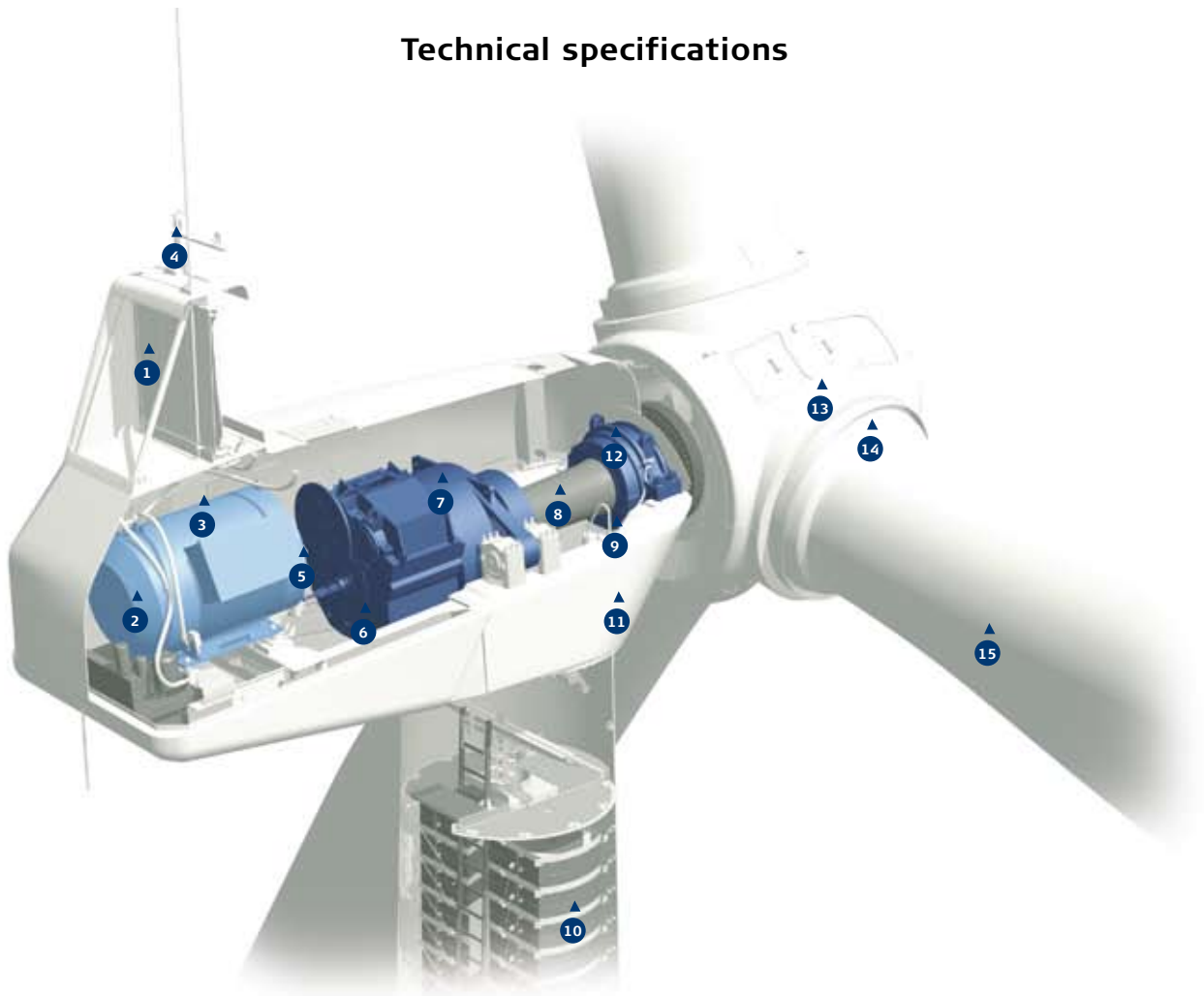
Det Norske Veritas (DNV) has certified the V82 as meeting the strictest standards in the wind industry. It has the capacity to tune up its own generator, which helps to give it a particularly high degree of operational availability. In addition, the nacelle is based on the thoroughly tested design of previous models. To date, more than 700 wind turbines featuring this platform design have been installed on sites with conditions ranging from arctic to tropical.

## Proven performance

Wind power plants require substantial investments, and the process can be very complex. To assist in the evaluation and purchasing process, Vestas has identified four factors that are critical to wind turbine quality: energy production, operational availability, power quality and sound level.

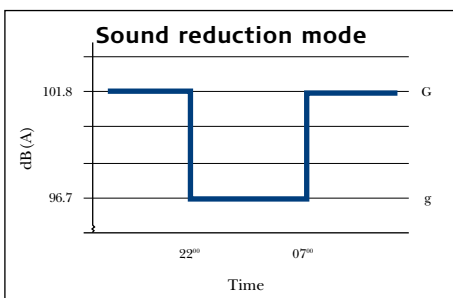
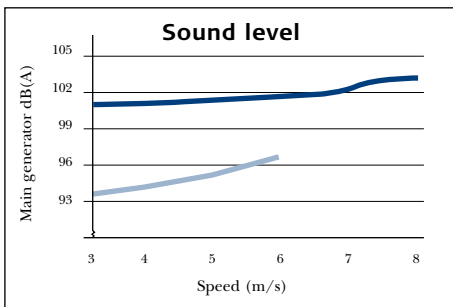
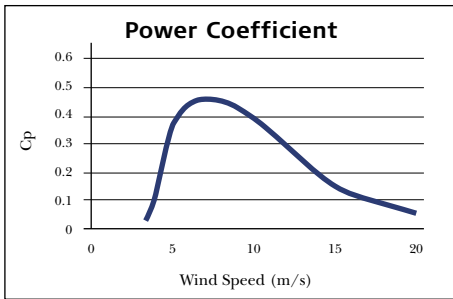
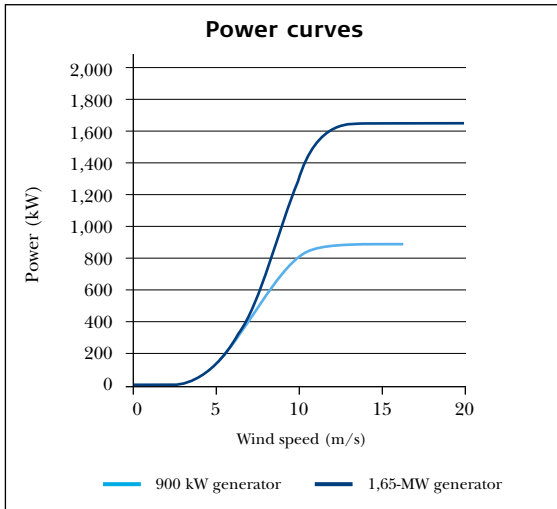
We spend months testing and documenting these performance areas for all Vestas turbines. When we are finally satisfied, we ask an independent testing organisation to verify the results – a practice we call Proven Performance. At Vestas we do not just talk about quality. We prove it.

## Technical specifications



- |    |                      |    |                                       |
|----|----------------------|----|---------------------------------------|
| 1  | Cooler               | 11 | Machine foundation                    |
| 2  | Generator            | 12 | Main bearing                          |
| 3  | Nacelle computer     | 13 | Hub computer                          |
| 4  | Anemometer windvanes | 14 | Pitch system                          |
| 5  | Coupling             | 15 | Blade                                 |
| 6  | Mechanical brake     | 16 | Dynamic converter (option)            |
| 7  | Gearbox              | 17 | Main panel                            |
| 8  | Main shaft           | 18 | Phase compensation (full load option) |
| 9  | Yaw gears            | 19 | CPU                                   |
| 10 | Tower damper         | 20 | Transformer and switchgear            |

Example of tower internal configuration.



## Rotor

Diameter: 82 m  
 Area swept: 5,281 m<sup>2</sup>  
 Nominal revolutions: 14.4 rpm, 14.4/10.8 rpm  
 Number of blades: 3  
 Power regulation: Active-Stall®  
 Air brake: Full blade pitch by three separate hydraulic pitch cylinders

## Tower

Hub height (approx.): 59 m, 68.5 m, 70 m, 78 m

## Operational data

|                                  | IEC IIB:<br>1,650 kW | IEC IIB:<br>900 kW/1,650 kW |
|----------------------------------|----------------------|-----------------------------|
| Cut-in wind speed:               | 3.5 m/s              | 2.5 m/s                     |
| Nominal wind speed:              | 13 m/s               | 13 m/s                      |
| Cut-out wind speed (10 minutes): | 20 m/s               | 20 m/s                      |
| Cut-out wind speed (1 minute):   | 24 m/s               | 24 m/s                      |
| Cut-out wind speed (1 second):   | 32 m/s               | 32 m/s                      |

## Generator

Type: Asynchronous  
 one or two speed generator water cooled  
 Nominal output: 1,650 kW  
 Operational data: 50/60 Hz  
 690 V

## Gearbox

Type: Planetary/helical stages

## Control

Type: Computer-based control of all turbine functions with the option of remote monitoring. Output regulation and optimisation via Active-Stall®.

## Weight

Nacelle 52 t  
 Rotor 43 t

Towers:  
 Hub height: IEC IIB  
 59 m 75 t  
 68.5 m 105 t  
 70 m 110 t  
 78 m 130 t

t = metric tonnes

All specifications subject to change without notice.

# Creating more from less



Ideally, it makes sense to generate electricity close to where it will be consumed so as to keep transmission, infrastructure and service costs low. However, since populous areas tend to have low winds and stringent requirements on sound levels, the wind industry often concentrates on coastal areas, deserted interiors and the open sea, where the wind is plentiful and sound restrictions are few.

With the V82 wind turbine, Vestas has made it easier to produce electricity close to where people live. Not only is the V82 extremely efficient in areas with low and medium winds, but it also provides the means to adjust sound levels

to suit local requirements. This means that a large number of previously marginal sites can now be exploited profitably – and quietly.

The V82 is an extremely competitive turbine in its class in areas with low and medium winds. A stall-regulated wind turbine, it has been optimised for sites with an average wind speed of just 6.5 m/s at hub height, while a breeze of as little as 2.5 m/s is all that is needed to start production. The V82 is available with either a one or a two-speed generator.

**Vestas Wind Systems A/S**

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To see a complete list of our  
sales and service units, visit  
[www.vestas.com](http://www.vestas.com)

## Kossowski, Julia

---

**From:** Hickey, Maurice <Maurice.Hickey@gdfsuezna.com>  
**Sent:** Wednesday, December 14, 2011 10:43 AM  
**To:** Kossowski, Julia; Gafur, Ansar  
**Cc:** Bultena, Carolyn  
**Subject:** RE: Mohawk Point Coordinates  
**Attachments:** A1-156508-MO-121-0100-Rev6-AsBuilt.pdf

Hi Julia

Please accept my apologies for not getting this to you sooner. It has been hectic as of late.

Please see the attached map with coordinates. The turbines at Mohawk are Vestas V 82-1.65Mw Mark IV 60 Hz units. They have a hub height of 80 meters.

If you need more info please feel free to let me know.

Maurice  
647-271-9753

-----Original Message-----

From: Kossowski, Julia [<mailto:Julia.Kossowski@stantec.com>]  
Sent: December-12-11 9:44 AM  
To: Gafur, Ansar  
Cc: Hickey, Maurice; Bultena, Carolyn  
Subject: RE: Mohawk Point Coordinates

Thank you for the follow-up, Ansar.

Maurice, Carolyn; I would be so thankful if you could provide the coordinates and make/model to me today.

Thanks in advance,  
Julia

Julia Kossowski  
Project Manager  
Stantec  
49 Frederick Street  
Kitchener ON N2H 6M7  
Ph: (519) 569-4338  
Fx: (519) 579-6733  
Cell: (226) 989-5259  
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[www.stantec.com](http://www.stantec.com)

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## 1.0 Wind Turbine Specifications Report

The HAF Wind Energy Project (“the Project”) is proposed to consist of five (5) Vestas V100-1.8MW turbines. The turbine model was selected based upon its technical performance, design characteristics, acoustic properties, power output, and site specific considerations.

The purpose of this report is to provide the technical information on the turbines to be used for the proposed Project. The Vineland Power Inc. is proposing a single Class 4 Wind Energy Facility consisting of five 1.8 MW wind turbines for a total nameplate capacity of 9.0 MW in the Township of West Lincoln in Niagara Region of the Province of Ontario.

### 1.1 Technical Specifications

The Vestas V100-1.8 MW wind turbine is a pitch regulated upwind turbine with active yaw and a three-blade rotor. The Vestas V100-1.8 MW turbine has a rotor diameter of 100 m with a generator rated at 1.8 MW. The turbine utilizes a microprocessor pitch control system called OptiTip®. With these features the wind turbine is able to optimize power output at different wind speeds.

A summary of the technical specifications is presented in **Table 1.1** with additional information provided by the manufacturer is included in **Appendix 1**.

| Table 1.1a: Summary of Technical Specifications of the Vestas V100-1.8MW |                     |
|--|---------------------|
| Specification  | Vestas V100-1.8MW   |
| Nameplate Capacity   | 1.8 Megawatt        |
| Hub Height (above grade)   | 95 m                |
| Rotator Diameter   | 100 m               |
| Blade Length   | 49 m                |
| Swept Area   | 7850 m <sup>2</sup> |
| Minimum Wind Speed (cut-in speed)  | 4.0 m/s             |
| Maximum Wind Speed (cut-out speed)                                       | 20.0 m/s            |
| Dynamic Rotational Speed Range   | 9.3 rpm to 16.6 rpm |
| Actual Rotational Speed  | 14.9 rpm            |

Each Vestas V100 turbine has a nameplate capacity of 1.8 MW and will be built to a hub height of 95 meters. The rotor diameter is 100 meters with swept area of 7850 m<sup>2</sup>.

The minimum operational wind speed (cut-in speed) is 4.0 m/s with a maximum operational speed (cut-out speed) of 20.0 m/s.

The V-100 Turbine is erected on a tabular steel tower which holds the nacelle at 95 meters above the ground. The nacelle houses the hub and electrical components. Each blade is constructed of light weight airfoil shells bonded to supporting beams

and connect to the hub forming a 100 meter rotor. The generator is asynchronous with wound rotor, slip rings and VCUS. The turbine's operational envelope is -20° to +40° C.

**Table 1.1b** summarizes the Wind Turbine General Specifications.

| Table 1.1b: Wind Turbine General Specifications |  |
|---|--|
|   | <b>Operational Envelope: -20° to +40° C</b>                          |
| <b>Rotor</b>                                    | <b>Rotor Diameter: 100m</b>  |
|   | <b>Swept Area: 7850m<sup>2</sup></b>                                 |
|   | <b>Speed, Dynamic Operation Range: 9.3 - 16.6 rpm</b>                |
|   | <b>Rotational Direction: Clockwise (front view)</b>                  |
| <b>Tower</b>                                    | <b>Type: tubular steel tower</b>                                     |
|   | <b>Hub: 95m</b>  |
| <b>Electrical</b>                               | <b>Frequency: 60 Hz</b>  |
|   | <b>Rated Power: 1.8 MW</b>   |
|   | <b>Generator: Asynchronous with wound rotor, slip rings and VCUS</b> |
| <b>Blade</b>                                    | <b>Type: airfoil shells bonded to supporting beam</b>                |
|   | <b>Length: 49m</b>   |
|   | <b>Max Chord: 3.9m</b>   |
| <b>Nacelle</b>                                  | <b>Height for Transport: 4.0 m</b>                                   |
|   | <b>Height Installed: 5.4 m</b>                                       |
|   | <b>Width: 3.4 m</b>  |
|   | <b>Length: 10.4 m</b>  |
| <b>Hub</b>                                      | <b>Material: cast ball shell hub</b>                                 |
|   | <b>Height: 95m</b>   |
|   | <b>Diameter: 3.3 m</b>   |



## 1.2 Acoustic Emissions Data

The V100 1.8 MW turbine model has a maximum sound power rating of **105.00 dBA**. Additional information on the acoustic data can be found in **Tables 1.2a, 1.2b, 1.2c, and 1.3**. These tables summarize the wind turbine specifications provided in the Manufacture Technical Details provided in **Appendix 1**.

**Table 1-2a** provides the Sound Power Level Ratings (dBA) for **Mode 0** at a Hub Height of **95 meters**. The table shows the conditions for sound power levels at speeds of **3 m/s to 13 m/s at 10 meters** with the corresponding wind speed at hub height (HH). The sound power rating does not exceed 105.00 dBA.

| Table 1-2a: Sound Power Level Ratings for Mode 0 |                      |                          |
|--|----------------------|--------------------------|
| Conditions for Sound Power Level                 | Hub Height 95 meters | Wind speed at hh [m/sec] |
| LwA @ 3 m/s (10 m above ground) [dBA]            | 93.8                 | 4.3                      |
| LwA @ 4 m/s (10 m above ground) [dBA]            | 96.4                 | 5.7                      |
| LwA @ 5 m/s (10 m above ground) [dBA]            | 100.7                | 7.2                      |
| LwA @ 6 m/s (10 m above ground) [dBA]            | 104.4                | 8.6                      |
| LwA @ 7 m/s (10 m above ground) [dBA]            | 105.0                | 10.0                     |
| LwA @ 8 m/s (10 m above ground) [dBA]            | 105.0                | 11.5                     |
| LwA @ 9 m/s (10 m above ground) [dBA]            | 105.0                | 12.9                     |
| LwA @ 10 m/s (10 m above ground) [dBA]           | 105.0                | 14.3                     |
| LwA @ 11 m/s (10 m above ground) [dBA]           | 105.0                | 15.8                     |
| LwA @ 12 m/s (10 m above ground) [dBA]           | 105.0                | 17.2                     |
| LwA @ 13 m/s (10 m above ground) [dBA]           | 105.0                | 18.6                     |

**Table 1-2b** (below) provides the Sound Power Level Ratings (dBA) for **Mode 1** at a Hub Height of **95 meters**. The table shows the conditions for sound power levels at speeds of **3 m/s to 13 m/s at 10 meters** with the corresponding wind speed at hub height (HH). The sound power rating does not exceed 105.00 dBA.

| Table 1-2b: Sound Power Level Ratings for Mode 1 |                      |                          |
|--|----------------------|--------------------------|
| Conditions for Sound Power Level                 | Hub Height 95 meters | Wind speed at hh [m/sec] |
| LwA @ 3 m/s (10 m above ground) [dBA]            | 93.7                 | 4.3                      |
| LwA @ 4 m/s (10 m above ground) [dBA]            | 95.7                 | 5.7                      |
| LwA @ 5 m/s (10 m above ground) [dBA]            | 99.7                 | 7.2                      |
| LwA @ 6 m/s (10 m above ground) [dBA]            | 103.4                | 8.6                      |
| LwA @ 7 m/s (10 m above ground) [dBA]            | 105.0                | 10.0                     |
| LwA @ 8 m/s (10 m above ground) [dBA]            | 105.0                | 11.5                     |
| LwA @ 9 m/s (10 m above ground) [dBA]            | 105.0                | 12.9                     |
| LwA @ 10 m/s (10 m above ground) [dBA]           | 105.0                | 14.3                     |
| LwA @ 11 m/s (10 m above ground) [dBA]           | 105.0                | 15.8                     |
| LwA @ 12 m/s (10 m above ground) [dBA]           | 105.0                | 17.2                     |
| LwA @ 13 m/s (10 m above ground) [dBA]           | 105.0                | 18.6                     |

Table 1-2c provides the Sound Power Level Ratings (dBA) for **Mode 2** at a Hub Height of **95 meters**. The table shows the conditions for sound power levels at speeds of **3 m/s** to **13 m/s** at **10 meters** with the corresponding wind speed at hub height (HH). The sound power rating does not exceed 105.00 dBA.

| Table 1-2c: Sound Power Level Ratings for Mode 2 |                      |                          |
|--|----------------------|--------------------------|
| Conditions for Sound Power Level                 | Hub Height 95 meters | Wind speed at hh [m/sec] |
| LwA @ 3 m/s (10 m above ground) [dBA]            | 93.8                 | 4.3                      |
| LwA @ 4 m/s (10 m above ground) [dBA]            | 96.4                 | 5.7                      |
| LwA @ 5 m/s (10 m above ground) [dBA]            | 100.7                | 7.2                      |
| LwA @ 6 m/s (10 m above ground) [dBA]            | 103.0                | 8.6                      |
| LwA @ 7 m/s (10 m above ground) [dBA]            | 103.0                | 10.0                     |
| LwA @ 8 m/s (10 m above ground) [dBA]            | 103.0                | 11.5                     |
| LwA @ 9 m/s (10 m above ground) [dBA]            | 103.0                | 12.9                     |
| LwA @ 10 m/s (10 m above ground) [dBA]           | 103.0                | 14.3                     |
| LwA @ 11 m/s (10 m above ground) [dBA]           | 103.0                | 15.8                     |
| LwA @ 12 m/s (10 m above ground) [dBA]           | 103.0                | 17.2                     |
| LwA @ 13 m/s (10 m above ground) [dBA]           | 103.0                | 18.6                     |

**Table 1-3** provides the Octave Band Spectra showing Octave in Hz from **16 Hz** to **8000 Hz** with the corresponding Sound Power Level in dB(A). Sound Power Level does not exceed **99.7 dB**.

| Table 1-3: Octave Band Spectra |     |     |     |      |      |      |      |      |     |     |     |     |
|--------------------------------|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-----|
| Wind Speed@10m [m/s]           | 3   | 4   | 5   | 6    | 7    | 8    | 9    | 10   | 11  | 12  | 13  | 14  |
| <b>16Hz [dB(A)]</b>            | NaN | NaN | NaN | NaN  | NaN  | NaN  | NaN  | NaN  | NaN | NaN | NaN | NaN |
| <b>31.5Hz [dB(A)]</b>          | NaN | NaN | NaN | NaN  | NaN  | NaN  | NaN  | NaN  | NaN | NaN | NaN | NaN |
| <b>63Hz [dB(A)]</b>            | NaN | NaN | NaN | 85.2 | 87.4 | 87.1 | 86.7 | 86.6 | NaN | NaN | NaN | NaN |
| <b>125Hz [dB(A)]</b>           | NaN | NaN | NaN | 89.6 | 92   | 91.7 | 91.3 | 91.4 | NaN | NaN | NaN | NaN |
| <b>250Hz [dB(A)]</b>           | NaN | NaN | NaN | 93   | 94.7 | 94.2 | 93.6 | 93.5 | NaN | NaN | NaN | NaN |
| <b>500Hz [dB(A)]</b>           | NaN | NaN | NaN | 95.4 | 97.1 | 96.7 | 96.1 | 96.1 | NaN | NaN | NaN | NaN |
| <b>1000Hz [dB(A)]</b>          | NaN | NaN | NaN | 98.2 | 99.7 | 99.5 | 99   | 99.1 | NaN | NaN | NaN | NaN |
| <b>2000Hz [dB(A)]</b>          | NaN | NaN | NaN | 96.6 | 98.2 | 98.4 | 98.2 | 98.2 | NaN | NaN | NaN | NaN |
| <b>4000Hz [dB(A)]</b>          | NaN | NaN | NaN | 94.6 | 96.6 | 97.2 | 98.7 | 98.6 | NaN | NaN | NaN | NaN |
| <b>8000Hz [dB(A)]</b>          | NaN | NaN | NaN | 85.4 | 89.8 | 90.3 | 91.4 | 92.3 | NaN | NaN | NaN | NaN |

**Table 1-3 Notes:**

1. "NaN" indicates data not available due to insufficient data collection at this wind speed.
2. Disclaimers from Vestas: The values are valid for the A-weighted sound power levels  
Octave band values must be regarded as informative  
Site specific values are not warranted
3. Measurement standard ICE 6140011:2002, using amendments procedure above 95% RP

### 1.3 Qualifications and Limitations

This summary report was produced, in part, to fulfill the requirements for the Turbine Specifications Report for the Renewable Energy Approval (REA). The contents of this document have been produced using the requirements outlined in O.Reg 359/09 as well as other applicable Acts and Regulations governing these projects.

Morrison Hershfield Limited's assessment was made in accordance with guidelines, regulations and procedures believed to be current at this time. Changes in guidelines, regulations and policies can occur at the discretion of the government and such changes could affect this report.

Morrison Hershfield Limited and the consulting team retained for this Project have prepared this report in accordance with information provided by its Client and their representatives. While we may have referred to and made use of this information and reporting, we assume no liability for the accuracy of this information.





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Dunnville Wind Turbine

Date Installed: 2006/10

Turbines: 1x Pfleiderer 650 kW

Total Installed Capacity (MW): 0.6500

Company: Rosa Flora Limited

Address: , Dunneville, ON, , Canada

Description: "At Rosa Flora we are constantly working towards reducing our fossil fuel requirements. We have achieved significant energy savings by implementing the latest green technologies. By switching from natural gas boilers to biomass-fueled boilers, we have minimized the net carbon dioxide produced, as the biomass is a carbon dioxide neutral fuel. We also have a co-generation system and wind turbine, which provide us with alternative sources of electricity, reducing our reliance on fossil fuels."

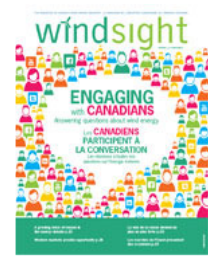
In early 2006, we investigated the possibility of installing a wind turbine for our operations. Our interest in green energy technologies coupled with rising electricity prices prompted us to pursue a wind turbine that was the right size and fit. In February 2006, we purchased a brand new German engineered wind turbine - PWE650. By September 2006, we had the turbine commissioned and were producing 615 kW of electricity per kWh. The electricity is delivered directly into the Rosa Flora system and offsets electricity required from the Ontario grid."

Map



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Did you know? Migratory routes of birds are taken into account when siting wind farms.



Windsight Spring 2013 Answering questions about wind energy

**Table F1 Wind Turbine Sound Emission Summary**

**Make and Farm: German engineered wind turbine - PWE650 - Rosa Flora (See Attachment)**

**Model: PWE650**

**Electrical Rating: 650 kW**

**Hub Height: 75 m**

**Data Source: CANWEA; taken higher sound level than three time the power capacity turbine E82 (2.3 MW) Model**

**Octave Band Sound Power Level (dB ref. 10<sup>-12</sup> Watts)**

|  |      | Manufacturer's Emission Level |     |     |     |     | Adjusted Emission Level |       |       |       |       |
|--|------|-------------------------------|-----|-----|-----|-----|-------------------------|-------|-------|-------|-------|
| 10m Height Wind Speed (m/s)                |      | 6                             | 7   | 8   | 9   | 10  | 6                       | 7     | 8     | 9     | 10    |
| Frequency (Hz)                             | 63   | n/a                           | n/a | n/a | n/a | n/a | 113.8                   | 113.8 | 113.8 | 113.8 | 113.8 |
|  | 125  | n/a                           | n/a | n/a | n/a | n/a | 111.3                   | 111.3 | 111.3 | 111.3 | 111.3 |
|  | 250  | n/a                           | n/a | n/a | n/a | n/a | 102.9                   | 102.9 | 102.9 | 102.9 | 102.9 |
|  | 500  | n/a                           | n/a | n/a | n/a | n/a | 100.3                   | 100.3 | 100.3 | 100.3 | 100.3 |
|  | 1000 | n/a                           | n/a | n/a | n/a | n/a | 98.9                    | 98.9  | 98.9  | 98.9  | 98.9  |
|  | 2000 | n/a                           | n/a | n/a | n/a | n/a | 93.4                    | 93.4  | 93.4  | 93.4  | 93.4  |
|  | 4000 | n/a                           | n/a | n/a | n/a | n/a | 82.1                    | 82.1  | 82.1  | 82.1  | 82.1  |
|  | 8000 | n/a                           | n/a | n/a | n/a | n/a | 76.9                    | 76.9  | 76.9  | 76.9  | 76.9  |
| Overall (dBA ref. 10 <sup>-12</sup> Watts) |      | --                            | --  | --  | --  | --  | 103.5                   | 103.5 | 103.5 | 103.5 | 103.5 |

WIND TURBINE SPECIFICATION REPORT

## 1.0 Wind Turbine Specifications Report

The Wainfleet Wind Energy Project (“the Project”) is proposed to consist of five (5) Vestas V100-1.8MW turbines. The turbine model was selected based upon its technical performance, design characteristics, acoustic properties, power output, and site specific considerations.

The purpose of this report is to provide the technical information on the turbines to be used for the proposed Project. The Wainfleet Wind Energy Inc. is proposing a single Class 4 Wind Energy Facility consisting of five 1.8 MW wind turbines for a total nameplate capacity of 9.0 MW in the Township of Wainfleet in Niagara Region of the Province of Ontario.

### 1.1 Technical Specifications

The Vestas V100-1.8 MW wind turbine is a pitch regulated upwind turbine with active yaw and a three-blade rotor. The Vestas V100-1.8 MW turbine has a rotor diameter of 100 m with a generator rated at 1.8 MW. The turbine utilizes a microprocessor pitch control system called OptiTip®. With these features the wind turbine is able to optimize power output at different wind speeds.

A summary of the technical specifications is presented in **Table 1.1** with additional information provided by the manufacturer is included in **Appendix 1**.

| <b>Table 1.1a: Summary of Technical Specifications of the Vestas V100-1.8MW</b> |                          |
|---|--------------------------|
| <b>Specification</b>  | <b>Vestas V100-1.8MW</b> |
| Nameplate Capacity  | 1.8 Megawatt             |
| Hub Height (above grade)  | 95 m                     |
| Rotator Diameter  | 100 m                    |
| Blade Length  | 49 m                     |
| Swept Area  | 7850 m <sup>2</sup>      |
| Minimum Wind Speed (cut-in speed)   | 4.0 m/s                  |
| Maximum Wind Speed (cut-out speed)  | 20.0 m/s                 |
| Dynamic Rotational Speed Range  | 9.3 rpm to 16.6 rpm      |
| Actual Rotational Speed   | 14.9 rpm                 |

Each Vestas V100 turbine has a nameplate capacity of 1.8 MW and will be built to a hub height of 95 meters. The rotor diameter is 100 meters with swept area of 7850 m<sup>2</sup>.

The minimum operational wind speed (cut-in speed) is 4.0 m/s with a maximum operational speed (cut-out speed) of 20.0 m/s.

The V-100 Turbine is erected on a tubular steel tower which holds the nacelle at 95 meters above the ground. The nacelle houses the hub and electrical components. Each blade is constructed of light weight airfoil shells bonded to supporting beams

WIND TURBINE SPECIFICATION REPORT

and connect to the hub forming a 100 meter rotor. The generator is asynchronous with wound rotor, slip rings and VCUS. The turbine's operational envelope is -20° to +40° C.

**Table 1.1b** summarizes the Wind Turbine General Specifications.

| <b>Table 1.1b: Wind Turbine General Specifications</b> |  |
|--|--|
|  | <b>Operational Envelope: -20° to +40° C</b>                          |
| <b>Rotor</b>   | <b>Rotor Diameter: 100m</b>  |
|  | <b>Swept Area: 7850m<sup>2</sup></b>                                 |
|  | <b>Speed, Dynamic Operation Range: 9.3 - 16.6 rpm</b>                |
|  | <b>Rotational Direction: Clockwise (front view)</b>                  |
| <b>Tower</b>   | <b>Type: tubular steel tower</b>                                     |
|  | <b>Hub: 95m</b>  |
| <b>Electrical</b>                                      | <b>Frequency: 60 Hz</b>  |
|  | <b>Rated Power: 1.8 MW</b>   |
|  | <b>Generator: Asynchronous with wound rotor, slip rings and VCUS</b> |
| <b>Blade</b>   | <b>Type: airfoil shells bonded to supporting beam</b>                |
|  | <b>Length: 49m</b>   |
|  | <b>Max Chord: 3.9m</b>   |
| <b>Nacelle</b>   | <b>Height for Transport: 4.0 m</b>                                   |
|  | <b>Height Installed: 5.4 m</b>                                       |
|  | <b>Width: 3.4 m</b>  |
|  | <b>Length: 10.4 m</b>  |
| <b>Hub</b>   | <b>Material: cast ball shell hub</b>                                 |
|  | <b>Height: 95m</b>   |
|  | <b>Diameter: 3.3 m</b>   |

WIND TURBINE SPECIFICATION REPORT

**1.2 Acoustic Emissions Data**

The V100 1.8 MW turbine model has a maximum sound power rating of **105.00 dBA**. Additional information on the acoustic data can be found in **Tables 1.2a, 1.2b, 1.2c, and 1.3**. These tables summarize the wind turbine specifications provided in the Manufacture Technical Details provided in **Appendix 1**.

**Table 1-2a** provides the Sound Power Level Ratings (dBA) for **Mode 0** at a Hub Height of **95 meters**. The table shows the conditions for sound power levels at speeds of **3 m/s to 13 m/s at 10 meters** with the corresponding wind speed at hub height (HH). The sound power rating does not exceed 105.00 dBA.

| Table 1-2a: Sound Power Level Ratings for Mode 0 |                      |                          |
|--|----------------------|--------------------------|
| Conditions for Sound Power Level                 | Hub Height 95 meters | Wind speed at hh [m/sec] |
| LwA @ 3 m/s (10 m above ground) [dBA]            | 93.8                 | 4.3                      |
| LwA @ 4 m/s (10 m above ground) [dBA]            | 96.4                 | 5.7                      |
| LwA @ 5 m/s (10 m above ground) [dBA]            | 100.7                | 7.2                      |
| LwA @ 6 m/s (10 m above ground) [dBA]            | 104.4                | 8.6                      |
| LwA @ 7 m/s (10 m above ground) [dBA]            | 105.0                | 10.0                     |
| LwA @ 8 m/s (10 m above ground) [dBA]            | 105.0                | 11.5                     |
| LwA @ 9 m/s (10 m above ground) [dBA]            | 105.0                | 12.9                     |
| LwA @ 10 m/s (10 m above ground) [dBA]           | 105.0                | 14.3                     |
| LwA @ 11 m/s (10 m above ground) [dBA]           | 105.0                | 15.8                     |
| LwA @ 12 m/s (10 m above ground) [dBA]           | 105.0                | 17.2                     |
| LwA @ 13 m/s (10 m above ground) [dBA]           | 105.0                | 18.6                     |

**Table 1-2b** (below) provides the Sound Power Level Ratings (dBA) for **Mode 1** at a Hub Height of **95 meters**. The table shows the conditions for sound power levels at speeds of **3 m/s to 13 m/s at 10 meters** with the corresponding wind speed at hub height (HH). The sound power rating does not exceed 105.00 dBA.

WIND TURBINE SPECIFICATION REPORT

| Table 1-2b: Sound Power Level Ratings for Mode 1 |                      |                          |
|--|----------------------|--------------------------|
| Conditions for Sound Power Level                 | Hub Height 95 meters | Wind speed at hh [m/sec] |
| LwA @ 3 m/s (10 m above ground) [dBA]            | 93.7                 | 4.3                      |
| LwA @ 4 m/s (10 m above ground) [dBA]            | 95.7                 | 5.7                      |
| LwA @ 5 m/s (10 m above ground) [dBA]            | 99.7                 | 7.2                      |
| LwA @ 6 m/s (10 m above ground) [dBA]            | 103.4                | 8.6                      |
| LwA @ 7 m/s (10 m above ground) [dBA]            | 105.0                | 10.0                     |
| LwA @ 8 m/s (10 m above ground) [dBA]            | 105.0                | 11.5                     |
| LwA @ 9 m/s (10 m above ground) [dBA]            | 105.0                | 12.9                     |
| LwA @ 10 m/s (10 m above ground) [dBA]           | 105.0                | 14.3                     |
| LwA @ 11 m/s (10 m above ground) [dBA]           | 105.0                | 15.8                     |
| LwA @ 12 m/s (10 m above ground) [dBA]           | 105.0                | 17.2                     |
| LwA @ 13 m/s (10 m above ground) [dBA]           | 105.0                | 18.6                     |

Table 1-2c provides the Sound Power Level Ratings (dBA) for **Mode 2** at a Hub Height of **95 meters**. The table shows the conditions for sound power levels at speeds of **3 m/s** to **13 m/s** at **10 meters** with the corresponding wind speed at hub height (HH). The sound power rating does not exceed 105.00 dBA.

| Table 1-2c: Sound Power Level Ratings for Mode 2 |                      |                          |
|--|----------------------|--------------------------|
| Conditions for Sound Power Level                 | Hub Height 95 meters | Wind speed at hh [m/sec] |
| LwA @ 3 m/s (10 m above ground) [dBA]            | 93.8                 | 4.3                      |
| LwA @ 4 m/s (10 m above ground) [dBA]            | 96.4                 | 5.7                      |
| LwA @ 5 m/s (10 m above ground) [dBA]            | 100.7                | 7.2                      |
| LwA @ 6 m/s (10 m above ground) [dBA]            | 103.0                | 8.6                      |
| LwA @ 7 m/s (10 m above ground) [dBA]            | 103.0                | 10.0                     |
| LwA @ 8 m/s (10 m above ground) [dBA]            | 103.0                | 11.5                     |
| LwA @ 9 m/s (10 m above ground) [dBA]            | 103.0                | 12.9                     |
| LwA @ 10 m/s (10 m above ground) [dBA]           | 103.0                | 14.3                     |
| LwA @ 11 m/s (10 m above ground) [dBA]           | 103.0                | 15.8                     |
| LwA @ 12 m/s (10 m above ground) [dBA]           | 103.0                | 17.2                     |
| LwA @ 13 m/s (10 m above ground) [dBA]           | 103.0                | 18.6                     |



WIND TURBINE SPECIFICATION REPORT

**Table 1-3** provides the Octave Band Spectra showing Octave in Hz from **16 Hz** to **8000 Hz** with the corresponding Sound Power Level in dB(A). Sound Power Level does not exceed **99.7 dB**.

| Wind Speed@10m [m/s]  | 3   | 4   | 5   | 6    | 7    | 8    | 9    | 10   | 11  | 12  | 13  | 14  |
|-----------------------|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-----|
| <b>16Hz [dB(A)]</b>   | NaN | NaN | NaN | NaN  | NaN  | NaN  | NaN  | NaN  | NaN | NaN | NaN | NaN |
| <b>31.5Hz [dB(A)]</b> | NaN | NaN | NaN | NaN  | NaN  | NaN  | NaN  | NaN  | NaN | NaN | NaN | NaN |
| <b>63Hz [dB(A)]</b>   | NaN | NaN | NaN | 85.2 | 87.4 | 87.1 | 86.7 | 86.6 | NaN | NaN | NaN | NaN |
| <b>125Hz [dB(A)]</b>  | NaN | NaN | NaN | 89.6 | 92   | 91.7 | 91.3 | 91.4 | NaN | NaN | NaN | NaN |
| <b>250Hz [dB(A)]</b>  | NaN | NaN | NaN | 93   | 94.7 | 94.2 | 93.6 | 93.5 | NaN | NaN | NaN | NaN |
| <b>500Hz [dB(A)]</b>  | NaN | NaN | NaN | 95.4 | 97.1 | 96.7 | 96.1 | 96.1 | NaN | NaN | NaN | NaN |
| <b>1000Hz [dB(A)]</b> | NaN | NaN | NaN | 98.2 | 99.7 | 99.5 | 99   | 99.1 | NaN | NaN | NaN | NaN |
| <b>2000Hz [dB(A)]</b> | NaN | NaN | NaN | 96.6 | 98.2 | 98.4 | 98.2 | 98.2 | NaN | NaN | NaN | NaN |
| <b>4000Hz [dB(A)]</b> | NaN | NaN | NaN | 94.6 | 96.6 | 97.2 | 98.7 | 98.6 | NaN | NaN | NaN | NaN |
| <b>8000Hz [dB(A)]</b> | NaN | NaN | NaN | 85.4 | 89.8 | 90.3 | 91.4 | 92.3 | NaN | NaN | NaN | NaN |

Table 1-3 Notes:

1. "NaN" indicates data not available due to insufficient data collection at this wind speed.
2. Disclaimers from Vestas: The values are valid for the A-weighted sound power levels  
Octave band values must be regarded as informative  
Site specific values are not warranted
3. Measurement standard ICE 6140011:2002, using amendments procedure above 95% RP

### 1.3 Qualifications and Limitations

This summary report was produced, in part, to fulfill the requirements for the Turbine Specifications Report for the Renewable Energy Approval (REA). The contents of this document have been produced using the requirements outlined in O.Reg 359/09 as well as other applicable Acts and Regulations governing these projects.

Morrison Hershfield Limited's assessment was made in accordance with guidelines, regulations and procedures believed to be current at this time. Changes in guidelines, regulations and policies can occur at the discretion of the government and such changes could affect this report.

Morrison Hershfield Limited and the consulting team retained for this Project have prepared this report in accordance with information provided by its Client and their representatives. While we may have referred to and made use of this information and reporting, we assume no liability for the accuracy of this information.

**SAMPLE CALCULATION  
IN OCTAVE BAND (V\_1541, V1759, O\_1624)**

Receiver: H1SYMER3739  
 ID: O\_1624  
 X: 622797.92  
 Y: 4747175.09  
 Z: 184.5  
 Ground: 180

| ISO  | ID        | X          | Y      | Z      | Ground | ReflOrd | LxT   | LxN | L/A    | Dist. | hm   | Freq  | Adiv | K0b  | Agr | Abar | z     | Aatm | Afol | Ahous | Cmet | CmetN | Dc | RL     | LtotT  | LtotN |
|------|-----------|------------|--------|--------|--------|---------|-------|-----|--------|-------|------|-------|------|------|-----|------|-------|------|------|-------|------|-------|----|--------|--------|-------|
| MH05 | 623047    | 4746843    | 260    | 180    | 0      | -39.4   | -39.4 | 1   | 421.9  | 41.6  | 32   | 63.5  | 0    | -3   | 0   | 0    | 0.01  | 0    | 0    | 0     | 0    | 0     | 0  | -99.9  | -99.9  |       |
| MH05 | 623047    | 4746843    | 260    | 180    | 0      | 57.5    | 57.5  | 1   | 421.9  | 41.6  | 63   | 63.5  | 0    | -3   | 0   | 0    | 0.05  | 0    | 0    | 0     | 0    | 0     | 0  | -3.1   | -3.1   |       |
| MH05 | 623047    | 4746843    | 260    | 180    | 0      | 72.4    | 72.4  | 1   | 421.9  | 41.6  | 125  | 63.5  | 0    | 1.38 | 0   | 0    | 0.17  | 0    | 0    | 0     | 0    | 0     | 0  | 7.3    | 7.3    |       |
| MH05 | 623047    | 4746843    | 260    | 180    | 0      | 82.7    | 82.7  | 1   | 421.9  | 41.6  | 250  | 63.5  | 0    | 0.07 | 0   | 0    | 0.44  | 0    | 0    | 0     | 0    | 0     | 0  | 18.7   | 18.7   |       |
| MH05 | 623047    | 4746843    | 260    | 180    | 0      | 90.4    | 90.4  | 1   | 421.9  | 41.6  | 500  | 63.5  | 0    | -0.9 | 0   | 0    | 0.81  | 0    | 0    | 0     | 0    | 0     | 0  | 27.0   | 27.0   |       |
| MH05 | 623047    | 4746843    | 260    | 180    | 0      | 96.8    | 96.8  | 1   | 421.9  | 41.6  | 1000 | 63.5  | 0    | -0.9 | 0   | 0    | 1.54  | 0    | 0    | 0     | 0    | 0     | 0  | 32.7   | 32.7   |       |
| MH05 | 623047    | 4746843    | 260    | 180    | 0      | 97.2    | 97.2  | 1   | 421.9  | 41.6  | 2000 | 63.5  | 0    | -0.9 | 0   | 0    | 4.08  | 0    | 0    | 0     | 0    | 0     | 0  | 30.5   | 30.5   |       |
| MH05 | 623047    | 4746843    | 260    | 180    | 0      | 96.0    | 96.0  | 1   | 421.9  | 41.6  | 4000 | 63.5  | 0    | -0.9 | 0   | 0    | 13.83 | 0    | 0    | 0     | 0    | 0     | 0  | 19.6   | 19.6   |       |
| MH05 | 623047    | 4746843    | 260    | 180    | 0      | 89.2    | 89.2  | 1   | 421.9  | 41.6  | 8000 | 63.5  | 0    | -0.9 | 0   | 0    | 49.32 | 0    | 0    | 0     | 0    | 0     | 0  | -22.7  | -22.7  |       |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0      | -39.4   | -39.4 | 1   | 718.6  | 42.2  | 32   | 68.13 | 0    | -3   | 0   | 0    | 0.02  | 0    | 0    | 0     | 0    | 0     | 0  | -104.6 | -104.6 |       |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0      | 57.5    | 57.5  | 1   | 718.6  | 42.2  | 63   | 68.13 | 0    | -3   | 0   | 0    | 0.09  | 0    | 0    | 0     | 0    | 0     | 0  | -7.7   | -7.7   |       |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0      | 72.4    | 72.4  | 1   | 718.6  | 42.2  | 125  | 68.13 | 0    | 1.63 | 0   | 0    | 0.3   | 0    | 0    | 0     | 0    | 0     | 0  | 2.4    | 2.4    |       |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0      | 82.7    | 82.7  | 1   | 718.6  | 42.2  | 250  | 68.13 | 0    | 0.07 | 0   | 0    | 0.75  | 0    | 0    | 0     | 0    | 0     | 0  | 13.8   | 13.8   |       |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0      | 90.4    | 90.4  | 1   | 718.6  | 42.2  | 500  | 68.13 | 0    | -0.9 | 0   | 0    | 1.39  | 0    | 0    | 0     | 0    | 0     | 0  | 21.8   | 21.8   |       |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0      | 96.8    | 96.8  | 1   | 718.6  | 42.2  | 1000 | 68.13 | 0    | -0.9 | 0   | 0    | 2.63  | 0    | 0    | 0     | 0    | 0     | 0  | 26.9   | 26.9   |       |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0      | 97.2    | 97.2  | 1   | 718.6  | 42.2  | 2000 | 68.13 | 0    | -0.9 | 0   | 0    | 6.94  | 0    | 0    | 0     | 0    | 0     | 0  | 23.0   | 23.0   |       |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0      | 96.0    | 96.0  | 1   | 718.6  | 42.2  | 4000 | 68.13 | 0    | -0.9 | 0   | 0    | 23.55 | 0    | 0    | 0     | 0    | 0     | 0  | 5.2    | 5.2    |       |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0      | 89.2    | 89.2  | 1   | 718.6  | 42.2  | 8000 | 68.13 | 0    | -0.9 | 0   | 0    | 84    | 0    | 0    | 0     | 0    | 0     | 0  | -62.0  | -62.0  |       |
| MH04 | 623297    | 4746604    | 260    | 180    | 0      | -39.4   | -39.4 | 1   | 762.2  | 42.0  | 32   | 68.64 | 0    | -3   | 0   | 0    | 0.02  | 0    | 0    | 0     | 0    | 0     | 0  | -105.1 | -105.1 |       |
| MH04 | 623297    | 4746604    | 260    | 180    | 0      | 57.5    | 57.5  | 1   | 762.2  | 42.0  | 63   | 68.64 | 0    | -3   | 0   | 0    | 0.09  | 0    | 0    | 0     | 0    | 0     | 0  | -8.2   | -8.2   |       |
| MH04 | 623297    | 4746604    | 260    | 180    | 0      | 72.4    | 72.4  | 1   | 762.2  | 42.0  | 125  | 68.64 | 0    | 1.65 | 0   | 0    | 0.31  | 0    | 0    | 0     | 0    | 0     | 0  | 1.8    | 1.8    |       |
| MH04 | 623297    | 4746604    | 260    | 180    | 0      | 82.7    | 82.7  | 1   | 762.2  | 42.0  | 250  | 68.64 | 0    | 0.07 | 0   | 0    | 0.8   | 0    | 0    | 0     | 0    | 0     | 0  | 13.2   | 13.2   |       |
| MH04 | 623297    | 4746604    | 260    | 180    | 0      | 90.4    | 90.4  | 1   | 762.2  | 42.0  | 500  | 68.64 | 0    | -0.9 | 0   | 0    | 1.47  | 0    | 0    | 0     | 0    | 0     | 0  | 21.2   | 21.2   |       |
| MH04 | 623297    | 4746604    | 260    | 180    | 0      | 96.8    | 96.8  | 1   | 762.2  | 42.0  | 1000 | 68.64 | 0    | -0.9 | 0   | 0    | 2.79  | 0    | 0    | 0     | 0    | 0     | 0  | 26.3   | 26.3   |       |
| MH04 | 623297    | 4746604    | 260    | 180    | 0      | 97.2    | 97.2  | 1   | 762.2  | 42.0  | 2000 | 68.64 | 0    | -0.9 | 0   | 0    | 7.37  | 0    | 0    | 0     | 0    | 0     | 0  | 22.1   | 22.1   |       |
| MH04 | 623297    | 4746604    | 260    | 180    | 0      | 96.0    | 96.0  | 1   | 762.2  | 42.0  | 4000 | 68.64 | 0    | -0.9 | 0   | 0    | 24.98 | 0    | 0    | 0     | 0    | 0     | 0  | 3.3    | 3.3    |       |
| MH04 | 623297    | 4746604    | 260    | 180    | 0      | 89.2    | 89.2  | 1   | 762.2  | 42.0  | 8000 | 68.64 | 0    | -0.9 | 0   | 0    | 89.09 | 0    | 0    | 0     | 0    | 0     | 0  | -67.6  | -67.6  |       |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0      | -39.4   | -39.4 | 1   | 1316.7 | 69.2  | 32   | 73.39 | 0    | -3   | 0   | 0    | 0.04  | 0    | 0    | 0     | 0    | 0     | 0  | -109.8 | -109.8 |       |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0      | 83.6    | 83.6  | 1   | 1316.7 | 69.2  | 63   | 73.39 | 0    | -3   | 0   | 0    | 0.16  | 0    | 0    | 0     | 0    | 0     | 0  | 13.1   | 13.1   |       |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0      | 91.7    | 91.7  | 1   | 1316.7 | 69.2  | 125  | 73.39 | 0    | 1.78 | 0   | 0    | 0.54  | 0    | 0    | 0     | 0    | 0     | 0  | 16.0   | 16.0   |       |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0      | 98.7    | 98.7  | 1   | 1316.7 | 69.2  | 250  | 73.39 | 0    | 0.07 | 0   | 0    | 1.37  | 0    | 0    | 0     | 0    | 0     | 0  | 23.9   | 23.9   |       |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0      | 100.8   | 100.8 | 1   | 1316.7 | 69.2  | 500  | 73.39 | 0    | -0.9 | 0   | 0    | 2.54  | 0    | 0    | 0     | 0    | 0     | 0  | 25.8   | 25.8   |       |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0      | 98.3    | 98.3  | 1   | 1316.7 | 69.2  | 1000 | 73.39 | 0    | -0.9 | 0   | 0    | 4.82  | 0    | 0    | 0     | 0    | 0     | 0  | 21.0   | 21.0   |       |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0      | 92.8    | 92.8  | 1   | 1316.7 | 69.2  | 2000 | 73.39 | 0    | -0.9 | 0   | 0    | 12.72 | 0    | 0    | 0     | 0    | 0     | 0  | 7.6    | 7.6    |       |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0      | 85.9    | 85.9  | 1   | 1316.7 | 69.2  | 4000 | 73.39 | 0    | -0.9 | 0   | 0    | 43.15 | 0    | 0    | 0     | 0    | 0     | 0  | -29.7  | -29.7  |       |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0      | 73.3    | 73.3  | 1   | 1316.7 | 69.2  | 8000 | 73.39 | 0    | -0.9 | 0   | 0    | 153.9 | 0    | 0    | 0     | 0    | 0     | 0  | -153.1 | -153.1 |       |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0      | -39.4   | -39.4 | 1   | 1524.6 | 69.1  | 32   | 74.66 | 0    | -3   | 0   | 0    | 0.05  | 0    | 0    | 0     | 0    | 0     | 0  | -111.1 | -111.1 |       |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0      | 83.6    | 83.6  | 1   | 1524.6 | 69.1  | 63   | 74.66 | 0    | -3   | 0   | 0    | 0.19  | 0    | 0    | 0     | 0    | 0     | 0  | 11.8   | 11.8   |       |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0      | 91.7    | 91.7  | 1   | 1524.6 | 69.1  | 125  | 74.66 | 0    | 1.78 | 0   | 0    | 0.63  | 0    | 0    | 0     | 0    | 0     | 0  | 14.6   | 14.6   |       |

|      |           |            |        |        |   |       |       |   |        |      |      |       |   |      |   |   |        |   |   |   |   |   |   |        |        |
|------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|------|---|---|--------|---|---|---|---|---|---|--------|--------|
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 98.7  | 98.7  | 1 | 1524.6 | 69.1 | 250  | 74.66 | 0 | 0.07 | 0 | 0 | 1.59   | 0 | 0 | 0 | 0 | 0 | 0 | 22.4   | 22.4   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 100.8 | 100.8 | 1 | 1524.6 | 69.1 | 500  | 74.66 | 0 | -0.9 | 0 | 0 | 2.94   | 0 | 0 | 0 | 0 | 0 | 0 | 24.1   | 24.1   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 98.3  | 98.3  | 1 | 1524.6 | 69.1 | 1000 | 74.66 | 0 | -0.9 | 0 | 0 | 5.58   | 0 | 0 | 0 | 0 | 0 | 0 | 19.0   | 19.0   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 92.8  | 92.8  | 1 | 1524.6 | 69.1 | 2000 | 74.66 | 0 | -0.9 | 0 | 0 | 14.73  | 0 | 0 | 0 | 0 | 0 | 0 | 4.3    | 4.3    |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 85.9  | 85.9  | 1 | 1524.6 | 69.1 | 4000 | 74.66 | 0 | -0.9 | 0 | 0 | 49.96  | 0 | 0 | 0 | 0 | 0 | 0 | -37.8  | -37.8  |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 73.3  | 73.3  | 1 | 1524.6 | 69.1 | 8000 | 74.66 | 0 | -0.9 | 0 | 0 | 178.19 | 0 | 0 | 0 | 0 | 0 | 0 | -178.7 | -178.7 |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | -39.4 | -39.4 | 1 | 1731.8 | 69.4 | 32   | 75.77 | 0 | -3   | 0 | 0 | 0.06   | 0 | 0 | 0 | 0 | 0 | 0 | -112.2 | -112.2 |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 83.6  | 83.6  | 1 | 1731.8 | 69.4 | 63   | 75.77 | 0 | -3   | 0 | 0 | 0.21   | 0 | 0 | 0 | 0 | 0 | 0 | 10.6   | 10.6   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 91.7  | 91.7  | 1 | 1731.8 | 69.4 | 125  | 75.77 | 0 | 1.78 | 0 | 0 | 0.71   | 0 | 0 | 0 | 0 | 0 | 0 | 13.4   | 13.4   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 98.7  | 98.7  | 1 | 1731.8 | 69.4 | 250  | 75.77 | 0 | 0.07 | 0 | 0 | 1.81   | 0 | 0 | 0 | 0 | 0 | 0 | 21.1   | 21.1   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 100.8 | 100.8 | 1 | 1731.8 | 69.4 | 500  | 75.77 | 0 | -0.9 | 0 | 0 | 3.34   | 0 | 0 | 0 | 0 | 0 | 0 | 22.6   | 22.6   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 98.3  | 98.3  | 1 | 1731.8 | 69.4 | 1000 | 75.77 | 0 | -0.9 | 0 | 0 | 6.33   | 0 | 0 | 0 | 0 | 0 | 0 | 17.1   | 17.1   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 92.8  | 92.8  | 1 | 1731.8 | 69.4 | 2000 | 75.77 | 0 | -0.9 | 0 | 0 | 16.74  | 0 | 0 | 0 | 0 | 0 | 0 | 1.2    | 1.2    |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 85.9  | 85.9  | 1 | 1731.8 | 69.4 | 4000 | 75.77 | 0 | -0.9 | 0 | 0 | 56.75  | 0 | 0 | 0 | 0 | 0 | 0 | -45.7  | -45.7  |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 73.3  | 73.3  | 1 | 1731.8 | 69.4 | 8000 | 75.77 | 0 | -0.9 | 0 | 0 | 202.41 | 0 | 0 | 0 | 0 | 0 | 0 | -204.0 | -204.0 |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | -39.4 | -39.4 | 1 | 2026.0 | 69.4 | 32   | 77.13 | 0 | -3   | 0 | 0 | 0.06   | 0 | 0 | 0 | 0 | 0 | 0 | -113.6 | -113.6 |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 83.6  | 83.6  | 1 | 2026.0 | 69.4 | 63   | 77.13 | 0 | -3   | 0 | 0 | 0.25   | 0 | 0 | 0 | 0 | 0 | 0 | 9.2    | 9.2    |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 91.7  | 91.7  | 1 | 2026.0 | 69.4 | 125  | 77.13 | 0 | 1.78 | 0 | 0 | 0.83   | 0 | 0 | 0 | 0 | 0 | 0 | 12.0   | 12.0   |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 98.7  | 98.7  | 1 | 2026.0 | 69.4 | 250  | 77.13 | 0 | 0.07 | 0 | 0 | 2.11   | 0 | 0 | 0 | 0 | 0 | 0 | 19.4   | 19.4   |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 100.8 | 100.8 | 1 | 2026.0 | 69.4 | 500  | 77.13 | 0 | -0.9 | 0 | 0 | 3.91   | 0 | 0 | 0 | 0 | 0 | 0 | 20.7   | 20.7   |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 98.3  | 98.3  | 1 | 2026.0 | 69.4 | 1000 | 77.13 | 0 | -0.9 | 0 | 0 | 7.41   | 0 | 0 | 0 | 0 | 0 | 0 | 14.7   | 14.7   |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 92.8  | 92.8  | 1 | 2026.0 | 69.4 | 2000 | 77.13 | 0 | -0.9 | 0 | 0 | 19.58  | 0 | 0 | 0 | 0 | 0 | 0 | -3.0   | -3.0   |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 85.9  | 85.9  | 1 | 2026.0 | 69.4 | 4000 | 77.13 | 0 | -0.9 | 0 | 0 | 66.39  | 0 | 0 | 0 | 0 | 0 | 0 | -56.7  | -56.7  |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 73.3  | 73.3  | 1 | 2026.0 | 69.4 | 8000 | 77.13 | 0 | -0.9 | 0 | 0 | 236.81 | 0 | 0 | 0 | 0 | 0 | 0 | -239.7 | -239.7 |
| T14  | 624137    | 4748807    | 312.05 | 177.05 | 0 | -39.4 | -39.4 | 1 | 2114.8 | 69.3 | 32   | 77.51 | 0 | -3   | 0 | 0 | 0.07   | 0 | 0 | 0 | 0 | 0 | 0 | -114.0 | -114.0 |
| T14  | 624137    | 4748807    | 312.05 | 177.05 | 0 | 83.6  | 83.6  | 1 | 2114.8 | 69.3 | 63   | 77.51 | 0 | -3   | 0 | 0 | 0.26   | 0 | 0 | 0 | 0 | 0 | 0 | 8.8    | 8.8    |
| T14  | 624137    | 4748807    | 312.05 | 177.05 | 0 | 91.7  | 91.7  | 1 | 2114.8 | 69.3 | 125  | 77.51 | 0 | 1.78 | 0 | 0 | 0.87   | 0 | 0 | 0 | 0 | 0 | 0 | 11.5   | 11.5   |
| T14  | 624137    | 4748807    | 312.05 | 177.05 | 0 | 98.7  | 98.7  | 1 | 2114.8 | 69.3 | 250  | 77.51 | 0 | 0.07 | 0 | 0 | 2.21   | 0 | 0 | 0 | 0 | 0 | 0 | 18.9   | 18.9   |
| T14  | 624137    | 4748807    | 312.05 | 177.05 | 0 | 100.8 | 100.8 | 1 | 2114.8 | 69.3 | 500  | 77.51 | 0 | -0.9 | 0 | 0 | 4.08   | 0 | 0 | 0 | 0 | 0 | 0 | 20.1   | 20.1   |
| T14  | 624137    | 4748807    | 312.05 | 177.05 | 0 | 98.3  | 98.3  | 1 | 2114.8 | 69.3 | 1000 | 77.51 | 0 | -0.9 | 0 | 0 | 7.74   | 0 | 0 | 0 | 0 | 0 | 0 | 14.0   | 14.0   |
| T14  | 624137    | 4748807    | 312.05 | 177.05 | 0 | 92.8  | 92.8  | 1 | 2114.8 | 69.3 | 2000 | 77.51 | 0 | -0.9 | 0 | 0 | 20.44  | 0 | 0 | 0 | 0 | 0 | 0 | -4.2   | -4.2   |
| T14  | 624137    | 4748807    | 312.05 | 177.05 | 0 | 85.9  | 85.9  | 1 | 2114.8 | 69.3 | 4000 | 77.51 | 0 | -0.9 | 0 | 0 | 69.3   | 0 | 0 | 0 | 0 | 0 | 0 | -60.0  | -60.0  |
| T14  | 624137    | 4748807    | 312.05 | 177.05 | 0 | 73.3  | 73.3  | 1 | 2114.8 | 69.3 | 8000 | 77.51 | 0 | -0.9 | 0 | 0 | 247.19 | 0 | 0 | 0 | 0 | 0 | 0 | -250.5 | -250.5 |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | -39.4 | -39.4 | 1 | 1798.1 | 69.2 | 32   | 76.1  | 0 | -3   | 0 | 0 | 0.06   | 0 | 0 | 0 | 0 | 0 | 0 | -112.6 | -112.6 |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 86.6  | 86.6  | 1 | 1798.1 | 69.2 | 63   | 76.1  | 0 | -3   | 0 | 0 | 0.22   | 0 | 0 | 0 | 0 | 0 | 0 | 13.3   | 13.3   |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 94.7  | 94.7  | 1 | 1798.1 | 69.2 | 125  | 76.1  | 0 | 1.78 | 0 | 0 | 0.74   | 0 | 0 | 0 | 0 | 0 | 0 | 16.1   | 16.1   |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 94.4  | 94.4  | 1 | 1798.1 | 69.2 | 250  | 76.1  | 0 | 0.07 | 0 | 0 | 1.88   | 0 | 0 | 0 | 0 | 0 | 0 | 16.4   | 16.4   |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 97.3  | 97.3  | 1 | 1798.1 | 69.2 | 500  | 76.1  | 0 | -0.9 | 0 | 0 | 3.47   | 0 | 0 | 0 | 0 | 0 | 0 | 18.6   | 18.6   |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 98.7  | 98.7  | 1 | 1798.1 | 69.2 | 1000 | 76.1  | 0 | -0.9 | 0 | 0 | 6.58   | 0 | 0 | 0 | 0 | 0 | 0 | 16.9   | 16.9   |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 93.8  | 93.8  | 1 | 1798.1 | 69.2 | 2000 | 76.1  | 0 | -0.9 | 0 | 0 | 17.38  | 0 | 0 | 0 | 0 | 0 | 0 | 1.2    | 1.2    |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 81.5  | 81.5  | 1 | 1798.1 | 69.2 | 4000 | 76.1  | 0 | -0.9 | 0 | 0 | 58.93  | 0 | 0 | 0 | 0 | 0 | 0 | -52.6  | -52.6  |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 73.4  | 73.4  | 1 | 1798.1 | 69.2 | 8000 | 76.1  | 0 | -0.9 | 0 | 0 | 210.17 | 0 | 0 | 0 | 0 | 0 | 0 | -212.0 | -212.0 |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | -39.4 | -39.4 | 1 | 1653.7 | 43.2 | 32   | 75.37 | 0 | -3   | 0 | 0 | 0.05   | 0 | 0 | 0 | 0 | 0 | 0 | -111.8 | -111.8 |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 57.5  | 57.5  | 1 | 1653.7 | 43.2 | 63   | 75.37 | 0 | -3   | 0 | 0 | 0.2    | 0 | 0 | 0 | 0 | 0 | 0 | -15.1  | -15.1  |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 72.4  | 72.4  | 1 | 1653.7 | 43.2 | 125  | 75.37 | 0 | 1.78 | 0 | 0 | 0.68   | 0 | 0 | 0 | 0 | 0 | 0 | -5.4   | -5.4   |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 82.7  | 82.7  | 1 | 1653.7 | 43.2 | 250  | 75.37 | 0 | 0.07 | 0 | 0 | 1.73   | 0 | 0 | 0 | 0 | 0 | 0 | 5.5    | 5.5    |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 90.4  | 90.4  | 1 | 1653.7 | 43.2 | 500  | 75.37 | 0 | -0.9 | 0 | 0 | 3.19   | 0 | 0 | 0 | 0 | 0 | 0 | 12.7   | 12.7   |



|      |           |            |        |        |   |       |       |   |        |      |      |       |   |      |   |   |        |   |   |   |   |   |        |        |
|------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|------|---|---|--------|---|---|---|---|---|--------|--------|
| MH03 | 623974    | 4745737    | 265.45 | 185.45 | 0 | 96.0  | 96.0  | 1 | 1859.5 | 43.4 | 4000 | 76.39 | 0 | -0.9 | 0 | 0 | 60.94  | 0 | 0 | 0 | 0 | 0 | -40.4  | -40.4  |
| MH03 | 623974    | 4745737    | 265.45 | 185.45 | 0 | 89.2  | 89.2  | 1 | 1859.5 | 43.4 | 8000 | 76.39 | 0 | -0.9 | 0 | 0 | 217.34 | 0 | 0 | 0 | 0 | 0 | -203.6 | -203.6 |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | -39.4 | -39.4 | 1 | 1862.3 | 44.6 | 32   | 76.4  | 0 | -3   | 0 | 0 | 0.06   | 0 | 0 | 0 | 0 | 0 | -112.9 | -112.9 |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 57.5  | 57.5  | 1 | 1862.3 | 44.6 | 63   | 76.4  | 0 | -3   | 0 | 0 | 0.23   | 0 | 0 | 0 | 0 | 0 | -16.1  | -16.1  |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 72.4  | 72.4  | 1 | 1862.3 | 44.6 | 125  | 76.4  | 0 | 1.78 | 0 | 0 | 0.77   | 0 | 0 | 0 | 0 | 0 | -6.6   | -6.6   |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 82.7  | 82.7  | 1 | 1862.3 | 44.6 | 250  | 76.4  | 0 | 0.07 | 0 | 0 | 1.94   | 0 | 0 | 0 | 0 | 0 | 4.3    | 4.3    |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 90.4  | 90.4  | 1 | 1862.3 | 44.6 | 500  | 76.4  | 0 | -0.9 | 0 | 0 | 3.59   | 0 | 0 | 0 | 0 | 0 | 11.3   | 11.3   |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 96.8  | 96.8  | 1 | 1862.3 | 44.6 | 1000 | 76.4  | 0 | -0.9 | 0 | 0 | 6.81   | 0 | 0 | 0 | 0 | 0 | 14.5   | 14.5   |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 97.2  | 97.2  | 1 | 1862.3 | 44.6 | 2000 | 76.4  | 0 | -0.9 | 0 | 0 | 18     | 0 | 0 | 0 | 0 | 0 | 3.7    | 3.7    |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 96.0  | 96.0  | 1 | 1862.3 | 44.6 | 4000 | 76.4  | 0 | -0.9 | 0 | 0 | 61.03  | 0 | 0 | 0 | 0 | 0 | -40.5  | -40.5  |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 89.2  | 89.2  | 1 | 1862.3 | 44.6 | 8000 | 76.4  | 0 | -0.9 | 0 | 0 | 217.67 | 0 | 0 | 0 | 0 | 0 | -204.0 | -204.0 |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | -39.4 | -39.4 | 1 | 2691.4 | 69.5 | 32   | 79.6  | 0 | -3   | 0 | 0 | 0.09   | 0 | 0 | 0 | 0 | 0 | -116.1 | -116.1 |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 83.6  | 83.6  | 1 | 2691.4 | 69.5 | 63   | 79.6  | 0 | -3   | 0 | 0 | 0.33   | 0 | 0 | 0 | 0 | 0 | 6.7    | 6.7    |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 91.7  | 91.7  | 1 | 2691.4 | 69.5 | 125  | 79.6  | 0 | 1.78 | 0 | 0 | 1.11   | 0 | 0 | 0 | 0 | 0 | 9.2    | 9.2    |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 98.7  | 98.7  | 1 | 2691.4 | 69.5 | 250  | 79.6  | 0 | 0.07 | 0 | 0 | 2.81   | 0 | 0 | 0 | 0 | 0 | 16.2   | 16.2   |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 100.8 | 100.8 | 1 | 2691.4 | 69.5 | 500  | 79.6  | 0 | -0.9 | 0 | 0 | 5.19   | 0 | 0 | 0 | 0 | 0 | 16.9   | 16.9   |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 98.3  | 98.3  | 1 | 2691.4 | 69.5 | 1000 | 79.6  | 0 | -0.9 | 0 | 0 | 9.84   | 0 | 0 | 0 | 0 | 0 | 9.8    | 9.8    |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 92.8  | 92.8  | 1 | 2691.4 | 69.5 | 2000 | 79.6  | 0 | -0.9 | 0 | 0 | 26.01  | 0 | 0 | 0 | 0 | 0 | -11.9  | -11.9  |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 85.9  | 85.9  | 1 | 2691.4 | 69.5 | 4000 | 79.6  | 0 | -0.9 | 0 | 0 | 88.2   | 0 | 0 | 0 | 0 | 0 | -81.0  | -81.0  |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 73.3  | 73.3  | 1 | 2691.4 | 69.5 | 8000 | 79.6  | 0 | -0.9 | 0 | 0 | 314.57 | 0 | 0 | 0 | 0 | 0 | -320.0 | -320.0 |
| T48  | 624687    | 4749282.73 | 311.42 | 176.42 | 0 | -39.4 | -39.4 | 1 | 2833.2 | 69.5 | 32   | 80.05 | 0 | -3   | 0 | 0 | 0.09   | 0 | 0 | 0 | 0 | 0 | -116.5 | -116.5 |
| T48  | 624687    | 4749282.73 | 311.42 | 176.42 | 0 | 83.6  | 83.6  | 1 | 2833.2 | 69.5 | 63   | 80.05 | 0 | -3   | 0 | 0 | 0.34   | 0 | 0 | 0 | 0 | 0 | 6.2    | 6.2    |
| T48  | 624687    | 4749282.73 | 311.42 | 176.42 | 0 | 91.7  | 91.7  | 1 | 2833.2 | 69.5 | 125  | 80.05 | 0 | 1.78 | 0 | 0 | 1.16   | 0 | 0 | 0 | 0 | 0 | 8.7    | 8.7    |
| T48  | 624687    | 4749282.73 | 311.42 | 176.42 | 0 | 98.7  | 98.7  | 1 | 2833.2 | 69.5 | 250  | 80.05 | 0 | 0.07 | 0 | 0 | 2.96   | 0 | 0 | 0 | 0 | 0 | 15.6   | 15.6   |
| T48  | 624687    | 4749282.73 | 311.42 | 176.42 | 0 | 100.8 | 100.8 | 1 | 2833.2 | 69.5 | 500  | 80.05 | 0 | -0.9 | 0 | 0 | 5.46   | 0 | 0 | 0 | 0 | 0 | 16.2   | 16.2   |
| T48  | 624687    | 4749282.73 | 311.42 | 176.42 | 0 | 98.3  | 98.3  | 1 | 2833.2 | 69.5 | 1000 | 80.05 | 0 | -0.9 | 0 | 0 | 10.36  | 0 | 0 | 0 | 0 | 0 | 8.8    | 8.8    |
| T48  | 624687    | 4749282.73 | 311.42 | 176.42 | 0 | 92.8  | 92.8  | 1 | 2833.2 | 69.5 | 2000 | 80.05 | 0 | -0.9 | 0 | 0 | 27.38  | 0 | 0 | 0 | 0 | 0 | -13.7  | -13.7  |
| T48  | 624687    | 4749282.73 | 311.42 | 176.42 | 0 | 85.9  | 85.9  | 1 | 2833.2 | 69.5 | 4000 | 80.05 | 0 | -0.9 | 0 | 0 | 92.84  | 0 | 0 | 0 | 0 | 0 | -86.1  | -86.1  |
| T48  | 624687    | 4749282.73 | 311.42 | 176.42 | 0 | 73.3  | 73.3  | 1 | 2833.2 | 69.5 | 8000 | 80.05 | 0 | -0.9 | 0 | 0 | 331.15 | 0 | 0 | 0 | 0 | 0 | -337.0 | -337.0 |
| T20  | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | -39.4 | -39.4 | 1 | 3069.3 | 69.1 | 32   | 80.74 | 0 | -3   | 0 | 0 | 0.1    | 0 | 0 | 0 | 0 | 0 | -117.2 | -117.2 |
| T20  | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 83.6  | 83.6  | 1 | 3069.3 | 69.1 | 63   | 80.74 | 0 | -3   | 0 | 0 | 0.37   | 0 | 0 | 0 | 0 | 0 | 5.5    | 5.5    |
| T20  | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 91.7  | 91.7  | 1 | 3069.3 | 69.1 | 125  | 80.74 | 0 | 1.78 | 0 | 0 | 1.26   | 0 | 0 | 0 | 0 | 0 | 7.9    | 7.9    |
| T20  | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 98.7  | 98.7  | 1 | 3069.3 | 69.1 | 250  | 80.74 | 0 | 0.07 | 0 | 0 | 3.2    | 0 | 0 | 0 | 0 | 0 | 14.7   | 14.7   |
| T20  | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 100.8 | 100.8 | 1 | 3069.3 | 69.1 | 500  | 80.74 | 0 | -0.9 | 0 | 0 | 5.92   | 0 | 0 | 0 | 0 | 0 | 15.0   | 15.0   |
| T20  | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 98.3  | 98.3  | 1 | 3069.3 | 69.1 | 1000 | 80.74 | 0 | -0.9 | 0 | 0 | 11.23  | 0 | 0 | 0 | 0 | 0 | 7.2    | 7.2    |
| T20  | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 92.8  | 92.8  | 1 | 3069.3 | 69.1 | 2000 | 80.74 | 0 | -0.9 | 0 | 0 | 29.66  | 0 | 0 | 0 | 0 | 0 | -16.7  | -16.7  |
| T20  | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 85.9  | 85.9  | 1 | 3069.3 | 69.1 | 4000 | 80.74 | 0 | -0.9 | 0 | 0 | 100.58 | 0 | 0 | 0 | 0 | 0 | -94.5  | -94.5  |
| T20  | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 73.3  | 73.3  | 1 | 3069.3 | 69.1 | 8000 | 80.74 | 0 | -0.9 | 0 | 0 | 358.75 | 0 | 0 | 0 | 0 | 0 | -365.3 | -365.3 |
| T96  | 621422.71 | 4750668.26 | 310.47 | 175.47 | 0 | -39.4 | -39.4 | 1 | 3756.2 | 69.5 | 32   | 82.5  | 0 | -3   | 0 | 0 | 0.12   | 0 | 0 | 0 | 0 | 0 | -119.0 | -119.0 |
| T96  | 621422.71 | 4750668.26 | 310.47 | 175.47 | 0 | 83.6  | 83.6  | 1 | 3756.2 | 69.5 | 63   | 82.5  | 0 | -3   | 0 | 0 | 0.46   | 0 | 0 | 0 | 0 | 0 | 3.7    | 3.7    |
| T96  | 621422.71 | 4750668.26 | 310.47 | 175.47 | 0 | 91.7  | 91.7  | 1 | 3756.2 | 69.5 | 125  | 82.5  | 0 | 1.78 | 0 | 0 | 1.54   | 0 | 0 | 0 | 0 | 0 | 5.9    | 5.9    |
| T96  | 621422.71 | 4750668.26 | 310.47 | 175.47 | 0 | 98.7  | 98.7  | 1 | 3756.2 | 69.5 | 250  | 82.5  | 0 | 0.07 | 0 | 0 | 3.92   | 0 | 0 | 0 | 0 | 0 | 12.2   | 12.2   |
| T96  | 621422.71 | 4750668.26 | 310.47 | 175.47 | 0 | 100.8 | 100.8 | 1 | 3756.2 | 69.5 | 500  | 82.5  | 0 | -0.9 | 0 | 0 | 7.24   | 0 | 0 | 0 | 0 | 0 | 12.0   | 12.0   |
| T96  | 621422.71 | 4750668.26 | 310.47 | 175.47 | 0 | 98.3  | 98.3  | 1 | 3756.2 | 69.5 | 1000 | 82.5  | 0 | -0.9 | 0 | 0 | 13.74  | 0 | 0 | 0 | 0 | 0 | 3.0    | 3.0    |
| T96  | 621422.71 | 4750668.26 | 310.47 | 175.47 | 0 | 92.8  | 92.8  | 1 | 3756.2 | 69.5 | 2000 | 82.5  | 0 | -0.9 | 0 | 0 | 36.3   | 0 | 0 | 0 | 0 | 0 | -25.1  | -25.1  |
| T96  | 621422.71 | 4750668.26 | 310.47 | 175.47 | 0 | 85.9  | 85.9  | 1 | 3756.2 | 69.5 | 4000 | 82.5  | 0 | -0.9 | 0 | 0 | 123.09 | 0 | 0 | 0 | 0 | 0 | -118.8 | -118.8 |
| T96  | 621422.71 | 4750668.26 | 310.47 | 175.47 | 0 | 73.3  | 73.3  | 1 | 3756.2 | 69.5 | 8000 | 82.5  | 0 | -0.9 | 0 | 0 | 439.04 | 0 | 0 | 0 | 0 | 0 | -447.3 | -447.3 |







|         |           |            |        |        |   |       |       |   |        |      |      |       |   |       |   |   |        |   |   |   |   |   |        |        |
|---------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|-------|---|---|--------|---|---|---|---|---|--------|--------|
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 100.8 | 100.8 | 1 | 7592.1 | 70.4 | 500  | 88.61 | 0 | -1.3  | 0 | 0 | 14.64  | 0 | 0 | 0 | 0 | 0 | -1.1   | -1.1   |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 98.3  | 98.3  | 1 | 7592.1 | 70.4 | 1000 | 88.61 | 0 | -1.3  | 0 | 0 | 27.77  | 0 | 0 | 0 | 0 | 0 | -16.8  | -16.8  |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 92.8  | 92.8  | 1 | 7592.1 | 70.4 | 2000 | 88.61 | 0 | -1.3  | 0 | 0 | 73.37  | 0 | 0 | 0 | 0 | 0 | -67.9  | -67.9  |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 85.9  | 85.9  | 1 | 7592.1 | 70.4 | 4000 | 88.61 | 0 | -1.3  | 0 | 0 | 248.79 | 0 | 0 | 0 | 0 | 0 | -250.2 | -250.2 |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 73.3  | 73.3  | 1 | 7592.1 | 70.4 | 8000 | 88.61 | 0 | -1.3  | 0 | 0 | 887.38 | 0 | 0 | 0 | 0 | 0 | -901.4 | -901.4 |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | -39.4 | -39.4 | 1 | 7830.1 | 55.5 | 32   | 88.88 | 0 | -4.8  | 0 | 0 | 0.25   | 0 | 0 | 0 | 0 | 0 | -123.7 | -123.7 |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 82.4  | 82.4  | 1 | 7830.1 | 55.5 | 63   | 88.88 | 0 | -4.8  | 0 | 0 | 0.95   | 0 | 0 | 0 | 0 | 0 | -2.6   | -2.6   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 93.0  | 93.0  | 1 | 7830.1 | 55.5 | 125  | 88.88 | 0 | 1.24  | 0 | 0 | 3.22   | 0 | 0 | 0 | 0 | 0 | -0.3   | -0.3   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 96.0  | 96.0  | 1 | 7830.1 | 55.5 | 250  | 88.88 | 0 | -0.47 | 0 | 0 | 8.17   | 0 | 0 | 0 | 0 | 0 | -0.6   | -0.6   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 99.8  | 99.8  | 1 | 7830.1 | 55.5 | 500  | 88.88 | 0 | -1.44 | 0 | 0 | 15.1   | 0 | 0 | 0 | 0 | 0 | -2.7   | -2.7   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 100.1 | 100.1 | 1 | 7830.1 | 55.5 | 1000 | 88.88 | 0 | -1.44 | 0 | 0 | 28.64  | 0 | 0 | 0 | 0 | 0 | -16.0  | -16.0  |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 96.5  | 96.5  | 1 | 7830.1 | 55.5 | 2000 | 88.88 | 0 | -1.44 | 0 | 0 | 75.67  | 0 | 0 | 0 | 0 | 0 | -66.6  | -66.6  |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 89.6  | 89.6  | 1 | 7830.1 | 55.5 | 4000 | 88.88 | 0 | -1.44 | 0 | 0 | 256.59 | 0 | 0 | 0 | 0 | 0 | -254.4 | -254.4 |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 85.2  | 85.2  | 1 | 7830.1 | 55.5 | 8000 | 88.88 | 0 | -1.44 | 0 | 0 | 915.2  | 0 | 0 | 0 | 0 | 0 | -917.4 | -917.4 |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | -39.4 | -39.4 | 1 | 8073.6 | 55.7 | 32   | 89.14 | 0 | -4.84 | 0 | 0 | 0.26   | 0 | 0 | 0 | 0 | 0 | -124.0 | -124.0 |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 82.4  | 82.4  | 1 | 8073.6 | 55.7 | 63   | 89.14 | 0 | -4.84 | 0 | 0 | 0.98   | 0 | 0 | 0 | 0 | 0 | -2.9   | -2.9   |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 93.0  | 93.0  | 1 | 8073.6 | 55.7 | 125  | 89.14 | 0 | 1.23  | 0 | 0 | 3.32   | 0 | 0 | 0 | 0 | 0 | -0.7   | -0.7   |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 96.0  | 96.0  | 1 | 8073.6 | 55.7 | 250  | 89.14 | 0 | -0.48 | 0 | 0 | 8.42   | 0 | 0 | 0 | 0 | 0 | -1.1   | -1.1   |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 99.8  | 99.8  | 1 | 8073.6 | 55.7 | 500  | 89.14 | 0 | -1.45 | 0 | 0 | 15.56  | 0 | 0 | 0 | 0 | 0 | -3.5   | -3.5   |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 100.1 | 100.1 | 1 | 8073.6 | 55.7 | 1000 | 89.14 | 0 | -1.45 | 0 | 0 | 29.53  | 0 | 0 | 0 | 0 | 0 | -17.1  | -17.1  |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 96.5  | 96.5  | 1 | 8073.6 | 55.7 | 2000 | 89.14 | 0 | -1.45 | 0 | 0 | 78.02  | 0 | 0 | 0 | 0 | 0 | -69.2  | -69.2  |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 89.6  | 89.6  | 1 | 8073.6 | 55.7 | 4000 | 89.14 | 0 | -1.45 | 0 | 0 | 264.57 | 0 | 0 | 0 | 0 | 0 | -262.7 | -262.7 |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 85.2  | 85.2  | 1 | 8073.6 | 55.7 | 8000 | 89.14 | 0 | -1.45 | 0 | 0 | 943.66 | 0 | 0 | 0 | 0 | 0 | -946.2 | -946.2 |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | -39.4 | -39.4 | 1 | 8095.1 | 54.6 | 32   | 89.16 | 0 | -4.84 | 0 | 0 | 0.26   | 0 | 0 | 0 | 0 | 0 | -124.0 | -124.0 |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 82.4  | 82.4  | 1 | 8095.1 | 54.6 | 63   | 89.16 | 0 | -4.84 | 0 | 0 | 0.99   | 0 | 0 | 0 | 0 | 0 | -2.9   | -2.9   |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 93.0  | 93.0  | 1 | 8095.1 | 54.6 | 125  | 89.16 | 0 | 1.23  | 0 | 0 | 3.33   | 0 | 0 | 0 | 0 | 0 | -0.7   | -0.7   |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 96.0  | 96.0  | 1 | 8095.1 | 54.6 | 250  | 89.16 | 0 | -0.48 | 0 | 0 | 8.45   | 0 | 0 | 0 | 0 | 0 | -1.1   | -1.1   |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 99.8  | 99.8  | 1 | 8095.1 | 54.6 | 500  | 89.16 | 0 | -1.45 | 0 | 0 | 15.61  | 0 | 0 | 0 | 0 | 0 | -3.5   | -3.5   |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 100.1 | 100.1 | 1 | 8095.1 | 54.6 | 1000 | 89.16 | 0 | -1.45 | 0 | 0 | 29.61  | 0 | 0 | 0 | 0 | 0 | -17.2  | -17.2  |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 96.5  | 96.5  | 1 | 8095.1 | 54.6 | 2000 | 89.16 | 0 | -1.45 | 0 | 0 | 78.23  | 0 | 0 | 0 | 0 | 0 | -69.4  | -69.4  |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 89.6  | 89.6  | 1 | 8095.1 | 54.6 | 4000 | 89.16 | 0 | -1.45 | 0 | 0 | 265.28 | 0 | 0 | 0 | 0 | 0 | -263.4 | -263.4 |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 85.2  | 85.2  | 1 | 8095.1 | 54.6 | 8000 | 89.16 | 0 | -1.45 | 0 | 0 | 946.18 | 0 | 0 | 0 | 0 | 0 | -948.7 | -948.7 |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | -39.4 | -39.4 | 1 | 8180.0 | 54.9 | 32   | 89.26 | 0 | -4.86 | 0 | 0 | 0.26   | 0 | 0 | 0 | 0 | 0 | -124.1 | -124.1 |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 82.4  | 82.4  | 1 | 8180.0 | 54.9 | 63   | 89.26 | 0 | -4.86 | 0 | 0 | 1      | 0 | 0 | 0 | 0 | 0 | -3.0   | -3.0   |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 93.0  | 93.0  | 1 | 8180.0 | 54.9 | 125  | 89.26 | 0 | 1.23  | 0 | 0 | 3.36   | 0 | 0 | 0 | 0 | 0 | -0.8   | -0.8   |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 96.0  | 96.0  | 1 | 8180.0 | 54.9 | 250  | 89.26 | 0 | -0.48 | 0 | 0 | 8.53   | 0 | 0 | 0 | 0 | 0 | -1.3   | -1.3   |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 99.8  | 99.8  | 1 | 8180.0 | 54.9 | 500  | 89.26 | 0 | -1.46 | 0 | 0 | 15.77  | 0 | 0 | 0 | 0 | 0 | -3.8   | -3.8   |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 100.1 | 100.1 | 1 | 8180.0 | 54.9 | 1000 | 89.26 | 0 | -1.46 | 0 | 0 | 29.92  | 0 | 0 | 0 | 0 | 0 | -17.6  | -17.6  |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 96.5  | 96.5  | 1 | 8180.0 | 54.9 | 2000 | 89.26 | 0 | -1.46 | 0 | 0 | 79.05  | 0 | 0 | 0 | 0 | 0 | -70.4  | -70.4  |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 89.6  | 89.6  | 1 | 8180.0 | 54.9 | 4000 | 89.26 | 0 | -1.46 | 0 | 0 | 268.06 | 0 | 0 | 0 | 0 | 0 | -266.3 | -266.3 |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 85.2  | 85.2  | 1 | 8180.0 | 54.9 | 8000 | 89.26 | 0 | -1.46 | 0 | 0 | 956.09 | 0 | 0 | 0 | 0 | 0 | -958.7 | -958.7 |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | -39.4 | -39.4 | 1 | 8490.8 | 55.5 | 32   | 89.58 | 0 | -4.9  | 0 | 0 | 0.27   | 0 | 0 | 0 | 0 | 0 | -124.4 | -124.4 |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 82.4  | 82.4  | 1 | 8490.8 | 55.5 | 63   | 89.58 | 0 | -4.9  | 0 | 0 | 1.03   | 0 | 0 | 0 | 0 | 0 | -3.3   | -3.3   |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 93.0  | 93.0  | 1 | 8490.8 | 55.5 | 125  | 89.58 | 0 | 1.21  | 0 | 0 | 3.49   | 0 | 0 | 0 | 0 | 0 | -1.3   | -1.3   |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 96.0  | 96.0  | 1 | 8490.8 | 55.5 | 250  | 89.58 | 0 | -0.5  | 0 | 0 | 8.86   | 0 | 0 | 0 | 0 | 0 | -1.9   | -1.9   |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 99.8  | 99.8  | 1 | 8490.8 | 55.5 | 500  | 89.58 | 0 | -1.47 | 0 | 0 | 16.37  | 0 | 0 | 0 | 0 | 0 | -4.7   | -4.7   |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 100.1 | 100.1 | 1 | 8490.8 | 55.5 | 1000 | 89.58 | 0 | -1.47 | 0 | 0 | 31.06  | 0 | 0 | 0 | 0 | 0 | -19.1  | -19.1  |

|         |           |            |        |        |   |       |       |   |        |      |      |       |   |       |      |      |         |   |   |   |   |   |         |         |
|---------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|-------|------|------|---------|---|---|---|---|---|---------|---------|
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 96.5  | 96.5  | 1 | 8490.8 | 55.5 | 2000 | 89.58 | 0 | -1.47 | 0    | 0    | 82.05   | 0 | 0 | 0 | 0 | 0 | -73.7   | -73.7   |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 89.6  | 89.6  | 1 | 8490.8 | 55.5 | 4000 | 89.58 | 0 | -1.47 | 0    | 0    | 278.24  | 0 | 0 | 0 | 0 | 0 | -276.8  | -276.8  |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 85.2  | 85.2  | 1 | 8490.8 | 55.5 | 8000 | 89.58 | 0 | -1.47 | 0    | 0    | 992.42  | 0 | 0 | 0 | 0 | 0 | -995.3  | -995.3  |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | -39.4 | -39.4 | 1 | 8496.0 | 55.5 | 32   | 89.58 | 0 | -4.9  | 0    | 0    | 0.27    | 0 | 0 | 0 | 0 | 0 | -124.4  | -124.4  |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 82.4  | 82.4  | 1 | 8496.0 | 55.5 | 63   | 89.58 | 0 | -4.9  | 0    | 0    | 1.03    | 0 | 0 | 0 | 0 | 0 | -3.3    | -3.3    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 93.0  | 93.0  | 1 | 8496.0 | 55.5 | 125  | 89.58 | 0 | 1.21  | 0    | 0    | 3.49    | 0 | 0 | 0 | 0 | 0 | -1.3    | -1.3    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 96.0  | 96.0  | 1 | 8496.0 | 55.5 | 250  | 89.58 | 0 | -0.5  | 0    | 0    | 8.86    | 0 | 0 | 0 | 0 | 0 | -2.0    | -2.0    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 99.8  | 99.8  | 1 | 8496.0 | 55.5 | 500  | 89.58 | 0 | -1.47 | 0    | 0    | 16.38   | 0 | 0 | 0 | 0 | 0 | -4.7    | -4.7    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 100.1 | 100.1 | 1 | 8496.0 | 55.5 | 1000 | 89.58 | 0 | -1.47 | 0    | 0    | 31.08   | 0 | 0 | 0 | 0 | 0 | -19.1   | -19.1   |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 96.5  | 96.5  | 1 | 8496.0 | 55.5 | 2000 | 89.58 | 0 | -1.47 | 0    | 0    | 82.1    | 0 | 0 | 0 | 0 | 0 | -73.7   | -73.7   |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 89.6  | 89.6  | 1 | 8496.0 | 55.5 | 4000 | 89.58 | 0 | -1.47 | 0    | 0    | 278.41  | 0 | 0 | 0 | 0 | 0 | -276.9  | -276.9  |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 85.2  | 85.2  | 1 | 8496.0 | 55.5 | 8000 | 89.58 | 0 | -1.47 | 0    | 0    | 993.03  | 0 | 0 | 0 | 0 | 0 | -995.9  | -995.9  |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 8685.4 | 68.8 | 32   | 89.78 | 0 | -4.55 | 0    | 0    | 0.28    | 0 | 0 | 0 | 0 | 0 | -124.9  | -124.9  |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 8685.4 | 68.8 | 63   | 89.78 | 0 | -4.55 | 0    | 0    | 1.06    | 0 | 0 | 0 | 0 | 0 | -2.7    | -2.7    |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 8685.4 | 68.8 | 125  | 89.78 | 0 | 1.32  | 0    | 0    | 3.57    | 0 | 0 | 0 | 0 | 0 | -3.0    | -3.0    |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 8685.4 | 68.8 | 250  | 89.78 | 0 | -0.39 | 0    | 0    | 9.06    | 0 | 0 | 0 | 0 | 0 | 0.3     | 0.3     |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 8685.4 | 68.8 | 500  | 89.78 | 0 | -1.37 | 0    | 0    | 16.74   | 0 | 0 | 0 | 0 | 0 | -4.4    | -4.4    |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 8685.4 | 68.8 | 1000 | 89.78 | 0 | -1.37 | 0    | 0    | 31.77   | 0 | 0 | 0 | 0 | 0 | -21.9   | -21.9   |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 8685.4 | 68.8 | 2000 | 89.78 | 0 | -1.37 | 0    | 0    | 83.94   | 0 | 0 | 0 | 0 | 0 | -79.5   | -79.5   |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 8685.4 | 68.8 | 4000 | 89.78 | 0 | -1.37 | 0    | 0    | 284.62  | 0 | 0 | 0 | 0 | 0 | -287.1  | -287.1  |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 8685.4 | 68.8 | 8000 | 89.78 | 0 | -1.37 | 0    | 0    | 1015.17 | 0 | 0 | 0 | 0 | 0 | -1030.3 | -1030.3 |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 8908.0 | 68.6 | 32   | 90    | 0 | -4.59 | 0    | 0    | 0.29    | 0 | 0 | 0 | 0 | 0 | -125.1  | -125.1  |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 8908.0 | 68.6 | 63   | 90    | 0 | -4.59 | 0    | 0    | 1.08    | 0 | 0 | 0 | 0 | 0 | -2.9    | -2.9    |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 8908.0 | 68.6 | 125  | 90    | 0 | 1.31  | 0    | 0    | 3.66    | 0 | 0 | 0 | 0 | 0 | -3.3    | -3.3    |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 8908.0 | 68.6 | 250  | 90    | 0 | -0.4  | 0    | 0    | 9.29    | 0 | 0 | 0 | 0 | 0 | -0.2    | -0.2    |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 8908.0 | 68.6 | 500  | 90    | 0 | -1.38 | 0    | 0    | 17.17   | 0 | 0 | 0 | 0 | 0 | -5.0    | -5.0    |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 8908.0 | 68.6 | 1000 | 90    | 0 | -1.38 | 0    | 0    | 32.58   | 0 | 0 | 0 | 0 | 0 | -22.9   | -22.9   |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 8908.0 | 68.6 | 2000 | 90    | 0 | -1.38 | 0    | 0    | 86.09   | 0 | 0 | 0 | 0 | 0 | -81.9   | -81.9   |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 8908.0 | 68.6 | 4000 | 90    | 0 | -1.38 | 0    | 0    | 291.91  | 0 | 0 | 0 | 0 | 0 | -294.6  | -294.6  |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 8908.0 | 68.6 | 8000 | 90    | 0 | -1.38 | 0    | 0    | 1041.18 | 0 | 0 | 0 | 0 | 0 | -1056.5 | -1056.5 |
| T13     | 621410    | 4756122    | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 9054.8 | 69.4 | 32   | 90.14 | 0 | -4.61 | 0    | 0    | 0.29    | 0 | 0 | 0 | 0 | 0 | -125.2  | -125.2  |
| T13     | 621410    | 4756122    | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 9054.8 | 69.4 | 63   | 90.14 | 0 | -4.61 | 0    | 0    | 1.1     | 0 | 0 | 0 | 0 | 0 | -3.0    | -3.0    |
| T13     | 621410    | 4756122    | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 9054.8 | 69.4 | 125  | 90.14 | 0 | 1.3   | 0    | 0    | 3.72    | 0 | 0 | 0 | 0 | 0 | -3.5    | -3.5    |
| T13     | 621410    | 4756122    | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 9054.8 | 69.4 | 250  | 90.14 | 0 | -0.41 | 0    | 0    | 9.45    | 0 | 0 | 0 | 0 | 0 | -0.5    | -0.5    |
| T13     | 621410    | 4756122    | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 9054.8 | 69.4 | 500  | 90.14 | 0 | -1.38 | 0    | 0    | 17.46   | 0 | 0 | 0 | 0 | 0 | -5.4    | -5.4    |
| T13     | 621410    | 4756122    | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 9054.8 | 69.4 | 1000 | 90.14 | 0 | -1.38 | 0    | 0    | 33.12   | 0 | 0 | 0 | 0 | 0 | -23.6   | -23.6   |
| T13     | 621410    | 4756122    | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 9054.8 | 69.4 | 2000 | 90.14 | 0 | -1.38 | 0    | 0    | 87.5    | 0 | 0 | 0 | 0 | 0 | -83.5   | -83.5   |
| T13     | 621410    | 4756122    | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 9054.8 | 69.4 | 4000 | 90.14 | 0 | -1.38 | 0    | 0    | 296.73  | 0 | 0 | 0 | 0 | 0 | -299.6  | -299.6  |
| T13     | 621410    | 4756122    | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 9054.8 | 69.4 | 8000 | 90.14 | 0 | -1.38 | 0    | 0    | 1058.34 | 0 | 0 | 0 | 0 | 0 | -1073.8 | -1073.8 |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 50.6  | 50.6  | 1 | 7503.6 | 4.4  | 32   | 88.51 | 0 | -5.9  | 4.77 | 0.02 | 0.24    | 0 | 0 | 0 | 0 | 0 | -37.0   | -37.0   |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 72.8  | 72.8  | 1 | 7503.6 | 4.4  | 63   | 88.51 | 0 | -5.9  | 4.77 | 0.02 | 0.91    | 0 | 0 | 0 | 0 | 0 | -15.5   | -15.5   |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 87.9  | 87.9  | 1 | 7503.6 | 4.4  | 125  | 88.51 | 0 | 3.79  | 0.98 | 0.02 | 3.08    | 0 | 0 | 0 | 0 | 0 | -8.5    | -8.5    |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 94.4  | 94.4  | 1 | 7503.6 | 4.4  | 250  | 88.51 | 0 | 0.96  | 3.81 | 0.02 | 7.83    | 0 | 0 | 0 | 0 | 0 | -6.7    | -6.7    |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 99.8  | 99.8  | 1 | 7503.6 | 4.4  | 500  | 88.51 | 0 | -1.75 | 4.77 | 0.02 | 14.47   | 0 | 0 | 0 | 0 | 0 | -6.2    | -6.2    |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 97.0  | 97.0  | 1 | 7503.6 | 4.4  | 1000 | 88.51 | 0 | -1.77 | 4.77 | 0.02 | 27.45   | 0 | 0 | 0 | 0 | 0 | -22.0   | -22.0   |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 93.2  | 93.2  | 1 | 7503.6 | 4.4  | 2000 | 88.51 | 0 | -1.77 | 4.77 | 0.02 | 72.51   | 0 | 0 | 0 | 0 | 0 | -70.8   | -70.8   |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 88.0  | 88.0  | 1 | 7503.6 | 4.4  | 4000 | 88.51 | 0 | -1.77 | 4.77 | 0.02 | 245.89  | 0 | 0 | 0 | 0 | 0 | -249.4  | -249.4  |

|      |           |            |        |        |   |       |       |   |        |      |      |       |   |       |      |      |         |   |   |   |   |   |   |         |         |
|------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|-------|------|------|---------|---|---|---|---|---|---|---------|---------|
| ST2  | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 78.9  | 78.9  | 1 | 7503.6 | 4.4  | 8000 | 88.51 | 0 | -1.77 | 4.77 | 0.02 | 877.03  | 0 | 0 | 0 | 0 | 0 | 0 | -889.6  | -889.6  |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | -38.7 | -38.7 | 1 | 9482.7 | 51.0 | 32   | 90.54 | 0 | -5.06 | 0    | 0    | 0.3     | 0 | 0 | 0 | 0 | 0 | 0 | -124.5  | -124.5  |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 86.0  | 86.0  | 1 | 9482.7 | 51.0 | 63   | 90.54 | 0 | -5.06 | 0    | 0    | 1.15    | 0 | 0 | 0 | 0 | 0 | 0 | -0.6    | -0.6    |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 91.0  | 91.0  | 1 | 9482.7 | 51.0 | 125  | 90.54 | 0 | 1.17  | 0    | 0    | 3.9     | 0 | 0 | 0 | 0 | 0 | 0 | -4.6    | -4.6    |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 98.5  | 98.5  | 1 | 9482.7 | 51.0 | 250  | 90.54 | 0 | -0.54 | 0    | 0    | 9.89    | 0 | 0 | 0 | 0 | 0 | 0 | -1.4    | -1.4    |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 95.4  | 95.4  | 1 | 9482.7 | 51.0 | 500  | 90.54 | 0 | -1.52 | 0    | 0    | 18.28   | 0 | 0 | 0 | 0 | 0 | 0 | -11.9   | -11.9   |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 98.5  | 98.5  | 1 | 9482.7 | 51.0 | 1000 | 90.54 | 0 | -1.52 | 0    | 0    | 34.68   | 0 | 0 | 0 | 0 | 0 | 0 | -25.2   | -25.2   |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 97.7  | 97.7  | 1 | 9482.7 | 51.0 | 2000 | 90.54 | 0 | -1.52 | 0    | 0    | 91.64   | 0 | 0 | 0 | 0 | 0 | 0 | -83.0   | -83.0   |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 96.7  | 96.7  | 1 | 9482.7 | 51.0 | 4000 | 90.54 | 0 | -1.52 | 0    | 0    | 310.75  | 0 | 0 | 0 | 0 | 0 | 0 | -303.1  | -303.1  |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 92.1  | 92.1  | 1 | 9482.7 | 51.0 | 8000 | 90.54 | 0 | -1.52 | 0    | 0    | 1108.35 | 0 | 0 | 0 | 0 | 0 | 0 | -1105.3 | -1105.3 |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | -39.4 | -39.4 | 1 | 9381.3 | 69.4 | 32   | 90.45 | 0 | -4.66 | 0    | 0    | 0.3     | 0 | 0 | 0 | 0 | 0 | 0 | -125.5  | -125.5  |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 83.6  | 83.6  | 1 | 9381.3 | 69.4 | 63   | 90.45 | 0 | -4.66 | 0    | 0    | 1.14    | 0 | 0 | 0 | 0 | 0 | 0 | -3.3    | -3.3    |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 91.7  | 91.7  | 1 | 9381.3 | 69.4 | 125  | 90.45 | 0 | 1.28  | 0    | 0    | 3.86    | 0 | 0 | 0 | 0 | 0 | 0 | -3.9    | -3.9    |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 98.7  | 98.7  | 1 | 9381.3 | 69.4 | 250  | 90.45 | 0 | -0.43 | 0    | 0    | 9.79    | 0 | 0 | 0 | 0 | 0 | 0 | -1.1    | -1.1    |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 100.8 | 100.8 | 1 | 9381.3 | 69.4 | 500  | 90.45 | 0 | -1.4  | 0    | 0    | 18.09   | 0 | 0 | 0 | 0 | 0 | 0 | -6.3    | -6.3    |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 98.3  | 98.3  | 1 | 9381.3 | 69.4 | 1000 | 90.45 | 0 | -1.4  | 0    | 0    | 34.31   | 0 | 0 | 0 | 0 | 0 | 0 | -25.1   | -25.1   |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 92.8  | 92.8  | 1 | 9381.3 | 69.4 | 2000 | 90.45 | 0 | -1.4  | 0    | 0    | 90.66   | 0 | 0 | 0 | 0 | 0 | 0 | -86.9   | -86.9   |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 85.9  | 85.9  | 1 | 9381.3 | 69.4 | 4000 | 90.45 | 0 | -1.4  | 0    | 0    | 307.43  | 0 | 0 | 0 | 0 | 0 | 0 | -310.6  | -310.6  |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 73.3  | 73.3  | 1 | 9381.3 | 69.4 | 8000 | 90.45 | 0 | -1.4  | 0    | 0    | 1096.5  | 0 | 0 | 0 | 0 | 0 | 0 | -1112.3 | -1112.3 |
| WF02 | 631758    | 4750750    | 270.92 | 175.92 | 0 | -38.7 | -38.7 | 1 | 9647.3 | 51.1 | 32   | 90.69 | 0 | -5.07 | 0    | 0    | 0.31    | 0 | 0 | 0 | 0 | 0 | 0 | -124.6  | -124.6  |
| WF02 | 631758    | 4750750    | 270.92 | 175.92 | 0 | 86.0  | 86.0  | 1 | 9647.3 | 51.1 | 63   | 90.69 | 0 | -5.07 | 0    | 0    | 1.17    | 0 | 0 | 0 | 0 | 0 | 0 | -0.8    | -0.8    |
| WF02 | 631758    | 4750750    | 270.92 | 175.92 | 0 | 91.0  | 91.0  | 1 | 9647.3 | 51.1 | 125  | 90.69 | 0 | 1.16  | 0    | 0    | 3.96    | 0 | 0 | 0 | 0 | 0 | 0 | -4.8    | -4.8    |
| WF02 | 631758    | 4750750    | 270.92 | 175.92 | 0 | 98.5  | 98.5  | 1 | 9647.3 | 51.1 | 250  | 90.69 | 0 | -0.55 | 0    | 0    | 10.07   | 0 | 0 | 0 | 0 | 0 | 0 | -1.7    | -1.7    |
| WF02 | 631758    | 4750750    | 270.92 | 175.92 | 0 | 95.4  | 95.4  | 1 | 9647.3 | 51.1 | 500  | 90.69 | 0 | -1.52 | 0    | 0    | 18.6    | 0 | 0 | 0 | 0 | 0 | 0 | -12.4   | -12.4   |
| WF02 | 631758    | 4750750    | 270.92 | 175.92 | 0 | 98.5  | 98.5  | 1 | 9647.3 | 51.1 | 1000 | 90.69 | 0 | -1.52 | 0    | 0    | 35.29   | 0 | 0 | 0 | 0 | 0 | 0 | -26.0   | -26.0   |
| WF02 | 631758    | 4750750    | 270.92 | 175.92 | 0 | 97.7  | 97.7  | 1 | 9647.3 | 51.1 | 2000 | 90.69 | 0 | -1.52 | 0    | 0    | 93.23   | 0 | 0 | 0 | 0 | 0 | 0 | -84.7   | -84.7   |
| WF02 | 631758    | 4750750    | 270.92 | 175.92 | 0 | 96.7  | 96.7  | 1 | 9647.3 | 51.1 | 4000 | 90.69 | 0 | -1.52 | 0    | 0    | 316.14  | 0 | 0 | 0 | 0 | 0 | 0 | -308.6  | -308.6  |
| WF02 | 631758    | 4750750    | 270.92 | 175.92 | 0 | 92.1  | 92.1  | 1 | 9647.3 | 51.1 | 8000 | 90.69 | 0 | -1.52 | 0    | 0    | 1127.6  | 0 | 0 | 0 | 0 | 0 | 0 | -1124.7 | -1124.7 |
| WF03 | 631921    | 4750541    | 271.25 | 176.25 | 0 | -38.7 | -38.7 | 1 | 9724.6 | 51.2 | 32   | 90.76 | 0 | -5.08 | 0    | 0    | 0.31    | 0 | 0 | 0 | 0 | 0 | 0 | -124.7  | -124.7  |
| WF03 | 631921    | 4750541    | 271.25 | 176.25 | 0 | 86.0  | 86.0  | 1 | 9724.6 | 51.2 | 63   | 90.76 | 0 | -5.08 | 0    | 0    | 1.18    | 0 | 0 | 0 | 0 | 0 | 0 | -0.9    | -0.9    |
| WF03 | 631921    | 4750541    | 271.25 | 176.25 | 0 | 91.0  | 91.0  | 1 | 9724.6 | 51.2 | 125  | 90.76 | 0 | 1.16  | 0    | 0    | 4       | 0 | 0 | 0 | 0 | 0 | 0 | -4.9    | -4.9    |
| WF03 | 631921    | 4750541    | 271.25 | 176.25 | 0 | 98.5  | 98.5  | 1 | 9724.6 | 51.2 | 250  | 90.76 | 0 | -0.55 | 0    | 0    | 10.15   | 0 | 0 | 0 | 0 | 0 | 0 | -1.9    | -1.9    |
| WF03 | 631921    | 4750541    | 271.25 | 176.25 | 0 | 95.4  | 95.4  | 1 | 9724.6 | 51.2 | 500  | 90.76 | 0 | -1.52 | 0    | 0    | 18.75   | 0 | 0 | 0 | 0 | 0 | 0 | -12.6   | -12.6   |
| WF03 | 631921    | 4750541    | 271.25 | 176.25 | 0 | 98.5  | 98.5  | 1 | 9724.6 | 51.2 | 1000 | 90.76 | 0 | -1.52 | 0    | 0    | 35.57   | 0 | 0 | 0 | 0 | 0 | 0 | -26.3   | -26.3   |
| WF03 | 631921    | 4750541    | 271.25 | 176.25 | 0 | 97.7  | 97.7  | 1 | 9724.6 | 51.2 | 2000 | 90.76 | 0 | -1.52 | 0    | 0    | 93.98   | 0 | 0 | 0 | 0 | 0 | 0 | -85.5   | -85.5   |
| WF03 | 631921    | 4750541    | 271.25 | 176.25 | 0 | 96.7  | 96.7  | 1 | 9724.6 | 51.2 | 4000 | 90.76 | 0 | -1.52 | 0    | 0    | 318.68  | 0 | 0 | 0 | 0 | 0 | 0 | -311.2  | -311.2  |
| WF03 | 631921    | 4750541    | 271.25 | 176.25 | 0 | 92.1  | 92.1  | 1 | 9724.6 | 51.2 | 8000 | 90.76 | 0 | -1.52 | 0    | 0    | 1136.63 | 0 | 0 | 0 | 0 | 0 | 0 | -1133.8 | -1133.8 |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | -39.4 | -39.4 | 1 | 9624.0 | 69.2 | 32   | 90.67 | 0 | -4.7  | 0    | 0    | 0.31    | 0 | 0 | 0 | 0 | 0 | 0 | -125.7  | -125.7  |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 83.6  | 83.6  | 1 | 9624.0 | 69.2 | 63   | 90.67 | 0 | -4.7  | 0    | 0    | 1.17    | 0 | 0 | 0 | 0 | 0 | 0 | -3.5    | -3.5    |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 91.7  | 91.7  | 1 | 9624.0 | 69.2 | 125  | 90.67 | 0 | 1.27  | 0    | 0    | 3.95    | 0 | 0 | 0 | 0 | 0 | 0 | -4.2    | -4.2    |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 98.7  | 98.7  | 1 | 9624.0 | 69.2 | 250  | 90.67 | 0 | -0.44 | 0    | 0    | 10.04   | 0 | 0 | 0 | 0 | 0 | 0 | -1.6    | -1.6    |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 100.8 | 100.8 | 1 | 9624.0 | 69.2 | 500  | 90.67 | 0 | -1.41 | 0    | 0    | 18.55   | 0 | 0 | 0 | 0 | 0 | 0 | -7.0    | -7.0    |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 98.3  | 98.3  | 1 | 9624.0 | 69.2 | 1000 | 90.67 | 0 | -1.41 | 0    | 0    | 35.2    | 0 | 0 | 0 | 0 | 0 | 0 | -26.2   | -26.2   |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 92.8  | 92.8  | 1 | 9624.0 | 69.2 | 2000 | 90.67 | 0 | -1.41 | 0    | 0    | 93.01   | 0 | 0 | 0 | 0 | 0 | 0 | -89.5   | -89.5   |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 85.9  | 85.9  | 1 | 9624.0 | 69.2 | 4000 | 90.67 | 0 | -1.41 | 0    | 0    | 315.38  | 0 | 0 | 0 | 0 | 0 | 0 | -318.7  | -318.7  |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 73.3  | 73.3  | 1 | 9624.0 | 69.2 | 8000 | 90.67 | 0 | -1.41 | 0    | 0    | 1124.87 | 0 | 0 | 0 | 0 | 0 | 0 | -1140.8 | -1140.8 |
| T11  | 620836    | 4756609.3  | 310.87 | 175.87 | 0 | -39.4 | -39.4 | 1 | 9636.9 | 69.6 | 32   | 90.68 | 0 | -4.7  | 0    | 0    | 0.31    | 0 | 0 | 0 | 0 | 0 | 0 | -125.7  | -125.7  |

|      |          |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |         |         |
|------|----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---------|---------|
| T11  | 620836   | 4756609.3  | 310.87 | 175.87 | 0 | 83.6  | 83.6  | 1 | 9636.9  | 69.6 | 63   | 90.68 | 0 | -4.7  | 0 | 0 | 1.17    | 0 | 0 | 0 | 0 | 0 | -3.6    | -3.6    |
| T11  | 620836   | 4756609.3  | 310.87 | 175.87 | 0 | 91.7  | 91.7  | 1 | 9636.9  | 69.6 | 125  | 90.68 | 0 | 1.27  | 0 | 0 | 3.96    | 0 | 0 | 0 | 0 | 0 | -4.2    | -4.2    |
| T11  | 620836   | 4756609.3  | 310.87 | 175.87 | 0 | 98.7  | 98.7  | 1 | 9636.9  | 69.6 | 250  | 90.68 | 0 | -0.44 | 0 | 0 | 10.05   | 0 | 0 | 0 | 0 | 0 | -1.6    | -1.6    |
| T11  | 620836   | 4756609.3  | 310.87 | 175.87 | 0 | 100.8 | 100.8 | 1 | 9636.9  | 69.6 | 500  | 90.68 | 0 | -1.41 | 0 | 0 | 18.58   | 0 | 0 | 0 | 0 | 0 | -7.1    | -7.1    |
| T11  | 620836   | 4756609.3  | 310.87 | 175.87 | 0 | 98.3  | 98.3  | 1 | 9636.9  | 69.6 | 1000 | 90.68 | 0 | -1.41 | 0 | 0 | 35.25   | 0 | 0 | 0 | 0 | 0 | -26.2   | -26.2   |
| T11  | 620836   | 4756609.3  | 310.87 | 175.87 | 0 | 92.8  | 92.8  | 1 | 9636.9  | 69.6 | 2000 | 90.68 | 0 | -1.41 | 0 | 0 | 93.13   | 0 | 0 | 0 | 0 | 0 | -89.6   | -89.6   |
| T11  | 620836   | 4756609.3  | 310.87 | 175.87 | 0 | 85.9  | 85.9  | 1 | 9636.9  | 69.6 | 4000 | 90.68 | 0 | -1.41 | 0 | 0 | 315.8   | 0 | 0 | 0 | 0 | 0 | -319.2  | -319.2  |
| T11  | 620836   | 4756609.3  | 310.87 | 175.87 | 0 | 73.3  | 73.3  | 1 | 9636.9  | 69.6 | 8000 | 90.68 | 0 | -1.41 | 0 | 0 | 1126.38 | 0 | 0 | 0 | 0 | 0 | -1142.4 | -1142.4 |
| WF04 | 632750   | 4748389    | 273.81 | 178.81 | 0 | -38.7 | -38.7 | 1 | 10026.2 | 52.6 | 32   | 91.02 | 0 | -5.11 | 0 | 0 | 0.32    | 0 | 0 | 0 | 0 | 0 | -124.9  | -124.9  |
| WF04 | 632750   | 4748389    | 273.81 | 178.81 | 0 | 86.0  | 86.0  | 1 | 10026.2 | 52.6 | 63   | 91.02 | 0 | -5.11 | 0 | 0 | 1.22    | 0 | 0 | 0 | 0 | 0 | -1.1    | -1.1    |
| WF04 | 632750   | 4748389    | 273.81 | 178.81 | 0 | 91.0  | 91.0  | 1 | 10026.2 | 52.6 | 125  | 91.02 | 0 | 1.15  | 0 | 0 | 4.12    | 0 | 0 | 0 | 0 | 0 | -5.3    | -5.3    |
| WF04 | 632750   | 4748389    | 273.81 | 178.81 | 0 | 98.5  | 98.5  | 1 | 10026.2 | 52.6 | 250  | 91.02 | 0 | -0.56 | 0 | 0 | 10.46   | 0 | 0 | 0 | 0 | 0 | -2.4    | -2.4    |
| WF04 | 632750   | 4748389    | 273.81 | 178.81 | 0 | 95.4  | 95.4  | 1 | 10026.2 | 52.6 | 500  | 91.02 | 0 | -1.53 | 0 | 0 | 19.33   | 0 | 0 | 0 | 0 | 0 | -13.4   | -13.4   |
| WF04 | 632750   | 4748389    | 273.81 | 178.81 | 0 | 98.5  | 98.5  | 1 | 10026.2 | 52.6 | 1000 | 91.02 | 0 | -1.53 | 0 | 0 | 36.67   | 0 | 0 | 0 | 0 | 0 | -27.7   | -27.7   |
| WF04 | 632750   | 4748389    | 273.81 | 178.81 | 0 | 97.7  | 97.7  | 1 | 10026.2 | 52.6 | 2000 | 91.02 | 0 | -1.53 | 0 | 0 | 96.89   | 0 | 0 | 0 | 0 | 0 | -88.7   | -88.7   |
| WF04 | 632750   | 4748389    | 273.81 | 178.81 | 0 | 96.7  | 96.7  | 1 | 10026.2 | 52.6 | 4000 | 91.02 | 0 | -1.53 | 0 | 0 | 328.56  | 0 | 0 | 0 | 0 | 0 | -321.4  | -321.4  |
| WF04 | 632750   | 4748389    | 273.81 | 178.81 | 0 | 92.1  | 92.1  | 1 | 10026.2 | 52.6 | 8000 | 91.02 | 0 | -1.53 | 0 | 0 | 1171.89 | 0 | 0 | 0 | 0 | 0 | -1169.3 | -1169.3 |
| WF05 | 632706   | 4748817    | 272.08 | 177.08 | 0 | -38.7 | -38.7 | 1 | 10043.6 | 51.1 | 32   | 91.04 | 0 | -5.11 | 0 | 0 | 0.32    | 0 | 0 | 0 | 0 | 0 | -125.0  | -125.0  |
| WF05 | 632706   | 4748817    | 272.08 | 177.08 | 0 | 86.0  | 86.0  | 1 | 10043.6 | 51.1 | 63   | 91.04 | 0 | -5.11 | 0 | 0 | 1.22    | 0 | 0 | 0 | 0 | 0 | -1.2    | -1.2    |
| WF05 | 632706   | 4748817    | 272.08 | 177.08 | 0 | 91.0  | 91.0  | 1 | 10043.6 | 51.1 | 125  | 91.04 | 0 | 1.15  | 0 | 0 | 4.13    | 0 | 0 | 0 | 0 | 0 | -5.3    | -5.3    |
| WF05 | 632706   | 4748817    | 272.08 | 177.08 | 0 | 98.5  | 98.5  | 1 | 10043.6 | 51.1 | 250  | 91.04 | 0 | -0.56 | 0 | 0 | 10.48   | 0 | 0 | 0 | 0 | 0 | -2.5    | -2.5    |
| WF05 | 632706   | 4748817    | 272.08 | 177.08 | 0 | 95.4  | 95.4  | 1 | 10043.6 | 51.1 | 500  | 91.04 | 0 | -1.53 | 0 | 0 | 19.36   | 0 | 0 | 0 | 0 | 0 | -13.5   | -13.5   |
| WF05 | 632706   | 4748817    | 272.08 | 177.08 | 0 | 98.5  | 98.5  | 1 | 10043.6 | 51.1 | 1000 | 91.04 | 0 | -1.53 | 0 | 0 | 36.74   | 0 | 0 | 0 | 0 | 0 | -27.7   | -27.7   |
| WF05 | 632706   | 4748817    | 272.08 | 177.08 | 0 | 97.7  | 97.7  | 1 | 10043.6 | 51.1 | 2000 | 91.04 | 0 | -1.53 | 0 | 0 | 97.06   | 0 | 0 | 0 | 0 | 0 | -88.9   | -88.9   |
| WF05 | 632706   | 4748817    | 272.08 | 177.08 | 0 | 96.7  | 96.7  | 1 | 10043.6 | 51.1 | 4000 | 91.04 | 0 | -1.53 | 0 | 0 | 329.13  | 0 | 0 | 0 | 0 | 0 | -321.9  | -321.9  |
| WF05 | 632706   | 4748817    | 272.08 | 177.08 | 0 | 92.1  | 92.1  | 1 | 10043.6 | 51.1 | 8000 | 91.04 | 0 | -1.53 | 0 | 0 | 1173.91 | 0 | 0 | 0 | 0 | 0 | -1171.3 | -1171.3 |
| T41  | 620998   | 4756850.97 | 311.43 | 176.43 | 0 | -39.4 | -39.4 | 1 | 9842.7  | 70.0 | 32   | 90.86 | 0 | -4.72 | 0 | 0 | 0.32    | 0 | 0 | 0 | 0 | 0 | -125.9  | -125.9  |
| T41  | 620998   | 4756850.97 | 311.43 | 176.43 | 0 | 83.6  | 83.6  | 1 | 9842.7  | 70.0 | 63   | 90.86 | 0 | -4.72 | 0 | 0 | 1.2     | 0 | 0 | 0 | 0 | 0 | -3.7    | -3.7    |
| T41  | 620998   | 4756850.97 | 311.43 | 176.43 | 0 | 91.7  | 91.7  | 1 | 9842.7  | 70.0 | 125  | 90.86 | 0 | 1.27  | 0 | 0 | 4.04    | 0 | 0 | 0 | 0 | 0 | -4.5    | -4.5    |
| T41  | 620998   | 4756850.97 | 311.43 | 176.43 | 0 | 98.7  | 98.7  | 1 | 9842.7  | 70.0 | 250  | 90.86 | 0 | -0.44 | 0 | 0 | 10.27   | 0 | 0 | 0 | 0 | 0 | -2.0    | -2.0    |
| T41  | 620998   | 4756850.97 | 311.43 | 176.43 | 0 | 100.8 | 100.8 | 1 | 9842.7  | 70.0 | 500  | 90.86 | 0 | -1.42 | 0 | 0 | 18.98   | 0 | 0 | 0 | 0 | 0 | -7.6    | -7.6    |
| T41  | 620998   | 4756850.97 | 311.43 | 176.43 | 0 | 98.3  | 98.3  | 1 | 9842.7  | 70.0 | 1000 | 90.86 | 0 | -1.42 | 0 | 0 | 36      | 0 | 0 | 0 | 0 | 0 | -27.2   | -27.2   |
| T41  | 620998   | 4756850.97 | 311.43 | 176.43 | 0 | 92.8  | 92.8  | 1 | 9842.7  | 70.0 | 2000 | 90.86 | 0 | -1.42 | 0 | 0 | 95.12   | 0 | 0 | 0 | 0 | 0 | -91.8   | -91.8   |
| T41  | 620998   | 4756850.97 | 311.43 | 176.43 | 0 | 85.9  | 85.9  | 1 | 9842.7  | 70.0 | 4000 | 90.86 | 0 | -1.42 | 0 | 0 | 322.55  | 0 | 0 | 0 | 0 | 0 | -326.1  | -326.1  |
| T41  | 620998   | 4756850.97 | 311.43 | 176.43 | 0 | 73.3  | 73.3  | 1 | 9842.7  | 70.0 | 8000 | 90.86 | 0 | -1.42 | 0 | 0 | 1150.43 | 0 | 0 | 0 | 0 | 0 | -1166.6 | -1166.6 |
| T72  | 620828   | 4757122    | 312.26 | 177.26 | 0 | -39.4 | -39.4 | 1 | 10140.9 | 70.4 | 32   | 91.12 | 0 | -4.76 | 0 | 0 | 0.32    | 0 | 0 | 0 | 0 | 0 | -126.1  | -126.1  |
| T72  | 620828   | 4757122    | 312.26 | 177.26 | 0 | 83.6  | 83.6  | 1 | 10140.9 | 70.4 | 63   | 91.12 | 0 | -4.76 | 0 | 0 | 1.23    | 0 | 0 | 0 | 0 | 0 | -4.0    | -4.0    |
| T72  | 620828   | 4757122    | 312.26 | 177.26 | 0 | 91.7  | 91.7  | 1 | 10140.9 | 70.4 | 125  | 91.12 | 0 | 1.25  | 0 | 0 | 4.17    | 0 | 0 | 0 | 0 | 0 | -4.8    | -4.8    |
| T72  | 620828   | 4757122    | 312.26 | 177.26 | 0 | 98.7  | 98.7  | 1 | 10140.9 | 70.4 | 250  | 91.12 | 0 | -0.46 | 0 | 0 | 10.58   | 0 | 0 | 0 | 0 | 0 | -2.6    | -2.6    |
| T72  | 620828   | 4757122    | 312.26 | 177.26 | 0 | 100.8 | 100.8 | 1 | 10140.9 | 70.4 | 500  | 91.12 | 0 | -1.43 | 0 | 0 | 19.55   | 0 | 0 | 0 | 0 | 0 | -8.4    | -8.4    |
| T72  | 620828   | 4757122    | 312.26 | 177.26 | 0 | 98.3  | 98.3  | 1 | 10140.9 | 70.4 | 1000 | 91.12 | 0 | -1.43 | 0 | 0 | 37.09   | 0 | 0 | 0 | 0 | 0 | -28.5   | -28.5   |
| T72  | 620828   | 4757122    | 312.26 | 177.26 | 0 | 92.8  | 92.8  | 1 | 10140.9 | 70.4 | 2000 | 91.12 | 0 | -1.43 | 0 | 0 | 98      | 0 | 0 | 0 | 0 | 0 | -94.9   | -94.9   |
| T72  | 620828   | 4757122    | 312.26 | 177.26 | 0 | 85.9  | 85.9  | 1 | 10140.9 | 70.4 | 4000 | 91.12 | 0 | -1.43 | 0 | 0 | 332.32  | 0 | 0 | 0 | 0 | 0 | -336.1  | -336.1  |
| T72  | 620828   | 4757122    | 312.26 | 177.26 | 0 | 73.3  | 73.3  | 1 | 10140.9 | 70.4 | 8000 | 91.12 | 0 | -1.43 | 0 | 0 | 1185.29 | 0 | 0 | 0 | 0 | 0 | -1201.7 | -1201.7 |
| T37  | 623038.4 | 4758881    | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 11709.1 | 70.0 | 32   | 92.37 | 0 | -4.93 | 0 | 0 | 0.37    | 0 | 0 | 0 | 0 | 0 | -127.2  | -127.2  |
| T37  | 623038.4 | 4758881    | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 11709.1 | 70.0 | 63   | 92.37 | 0 | -4.93 | 0 | 0 | 1.43    | 0 | 0 | 0 | 0 | 0 | -5.3    | -5.3    |
| T37  | 623038.4 | 4758881    | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 11709.1 | 70.0 | 125  | 92.37 | 0 | 1.2   | 0 | 0 | 4.81    | 0 | 0 | 0 | 0 | 0 | -6.7    | -6.7    |



|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |       |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|-------|---------|---|---|---|---|---|---|---------|---------|
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 11709.1 | 70.0 | 250  | 92.37 | 0 | -0.51 | 0 | 0     | 12.22   | 0 | 0 | 0 | 0 | 0 | 0 | -5.4    | -5.4    |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 11709.1 | 70.0 | 500  | 92.37 | 0 | -1.48 | 0 | 0     | 22.57   | 0 | 0 | 0 | 0 | 0 | 0 | -12.7   | -12.7   |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 11709.1 | 70.0 | 1000 | 92.37 | 0 | -1.48 | 0 | 0     | 42.83   | 0 | 0 | 0 | 0 | 0 | 0 | -35.4   | -35.4   |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 11709.1 | 70.0 | 2000 | 92.37 | 0 | -1.48 | 0 | 0     | 113.16  | 0 | 0 | 0 | 0 | 0 | 0 | -111.3  | -111.3  |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 11709.1 | 70.0 | 4000 | 92.37 | 0 | -1.48 | 0 | 0     | 383.71  | 0 | 0 | 0 | 0 | 0 | 0 | -388.7  | -388.7  |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 11709.1 | 70.0 | 8000 | 92.37 | 0 | -1.48 | 0 | 0     | 1368.58 | 0 | 0 | 0 | 0 | 0 | 0 | -1386.2 | -1386.2 |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 11824.5 | 70.0 | 32   | 92.46 | 0 | -4.94 | 0 | 0     | 0.38    | 0 | 0 | 0 | 0 | 0 | 0 | -127.3  | -127.3  |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 11824.5 | 70.0 | 63   | 92.46 | 0 | -4.94 | 0 | 0     | 1.44    | 0 | 0 | 0 | 0 | 0 | 0 | -5.4    | -5.4    |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 11824.5 | 70.0 | 125  | 92.46 | 0 | 1.2   | 0 | 0     | 4.86    | 0 | 0 | 0 | 0 | 0 | 0 | -6.8    | -6.8    |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 11824.5 | 70.0 | 250  | 92.46 | 0 | -0.51 | 0 | 0     | 12.34   | 0 | 0 | 0 | 0 | 0 | 0 | -5.6    | -5.6    |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 11824.5 | 70.0 | 500  | 92.46 | 0 | -1.48 | 0 | 0     | 22.8    | 0 | 0 | 0 | 0 | 0 | 0 | -13.0   | -13.0   |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 11824.5 | 70.0 | 1000 | 92.46 | 0 | -1.48 | 0 | 0     | 43.25   | 0 | 0 | 0 | 0 | 0 | 0 | -35.9   | -35.9   |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 11824.5 | 70.0 | 2000 | 92.46 | 0 | -1.48 | 0 | 0     | 114.27  | 0 | 0 | 0 | 0 | 0 | 0 | -112.5  | -112.5  |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 11824.5 | 70.0 | 4000 | 92.46 | 0 | -1.48 | 0 | 0     | 387.49  | 0 | 0 | 0 | 0 | 0 | 0 | -392.6  | -392.6  |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 11824.5 | 70.0 | 8000 | 92.46 | 0 | -1.48 | 0 | 0     | 1382.07 | 0 | 0 | 0 | 0 | 0 | 0 | -1399.8 | -1399.8 |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 13676.6 | 72.5 | 32   | 93.72 | 0 | -5.08 | 0 | -0.85 | 0.44    | 0 | 0 | 0 | 0 | 0 | 0 | -128.5  | -128.5  |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 13676.6 | 72.5 | 63   | 93.72 | 0 | -5.08 | 0 | -0.85 | 1.66    | 0 | 0 | 0 | 0 | 0 | 0 | -6.7    | -6.7    |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 13676.6 | 72.5 | 125  | 93.72 | 0 | 1.16  | 0 | -0.85 | 5.62    | 0 | 0 | 0 | 0 | 0 | 0 | -8.8    | -8.8    |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 13676.6 | 72.5 | 250  | 93.72 | 0 | -0.55 | 0 | -0.85 | 14.27   | 0 | 0 | 0 | 0 | 0 | 0 | -8.7    | -8.7    |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 13676.6 | 72.5 | 500  | 93.72 | 0 | -1.52 | 0 | -0.85 | 26.37   | 0 | 0 | 0 | 0 | 0 | 0 | -17.8   | -17.8   |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 13676.6 | 72.5 | 1000 | 93.72 | 0 | -1.52 | 0 | -0.85 | 50.02   | 0 | 0 | 0 | 0 | 0 | 0 | -43.9   | -43.9   |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 13676.6 | 72.5 | 2000 | 93.72 | 0 | -1.52 | 0 | -0.85 | 132.17  | 0 | 0 | 0 | 0 | 0 | 0 | -131.6  | -131.6  |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 13676.6 | 72.5 | 4000 | 93.72 | 0 | -1.52 | 0 | -0.85 | 448.18  | 0 | 0 | 0 | 0 | 0 | 0 | -454.5  | -454.5  |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 13676.6 | 72.5 | 8000 | 93.72 | 0 | -1.52 | 0 | -0.85 | 1598.54 | 0 | 0 | 0 | 0 | 0 | 0 | -1617.4 | -1617.4 |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | -41.9 | -41.9 | 1 | 11920.0 | 39.8 | 32   | 92.53 | 0 | -5.4  | 0 | 0     | 0.38    | 0 | 0 | 0 | 0 | 0 | 0 | -129.4  | -129.4  |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 87.6  | 87.6  | 1 | 11920.0 | 39.8 | 63   | 92.53 | 0 | -5.4  | 0 | 0     | 1.45    | 0 | 0 | 0 | 0 | 0 | 0 | -1.0    | -1.0    |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 95.2  | 95.2  | 1 | 11920.0 | 39.8 | 125  | 92.53 | 0 | 1.06  | 0 | 0     | 4.9     | 0 | 0 | 0 | 0 | 0 | 0 | -3.3    | -3.3    |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 94.3  | 94.3  | 1 | 11920.0 | 39.8 | 250  | 92.53 | 0 | -0.65 | 0 | 0     | 12.44   | 0 | 0 | 0 | 0 | 0 | 0 | -10.0   | -10.0   |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 97.1  | 97.1  | 1 | 11920.0 | 39.8 | 500  | 92.53 | 0 | -1.62 | 0 | 0     | 22.98   | 0 | 0 | 0 | 0 | 0 | 0 | -16.8   | -16.8   |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 98.9  | 98.9  | 1 | 11920.0 | 39.8 | 1000 | 92.53 | 0 | -1.62 | 0 | 0     | 43.6    | 0 | 0 | 0 | 0 | 0 | 0 | -35.6   | -35.6   |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 94.6  | 94.6  | 1 | 11920.0 | 39.8 | 2000 | 92.53 | 0 | -1.62 | 0 | 0     | 115.19  | 0 | 0 | 0 | 0 | 0 | 0 | -111.5  | -111.5  |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 83.1  | 83.1  | 1 | 11920.0 | 39.8 | 4000 | 92.53 | 0 | -1.62 | 0 | 0     | 390.62  | 0 | 0 | 0 | 0 | 0 | 0 | -398.4  | -398.4  |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 75.8  | 75.8  | 1 | 11920.0 | 39.8 | 8000 | 92.53 | 0 | -1.62 | 0 | 0     | 1393.24 | 0 | 0 | 0 | 0 | 0 | 0 | -1408.3 | -1408.3 |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | -39.4 | -39.4 | 1 | 15868.9 | 72.2 | 32   | 95.01 | 0 | -5.21 | 0 | 0     | 0.51    | 0 | 0 | 0 | 0 | 0 | 0 | -129.7  | -129.7  |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 83.6  | 83.6  | 1 | 15868.9 | 72.2 | 63   | 95.01 | 0 | -5.21 | 0 | 0     | 1.93    | 0 | 0 | 0 | 0 | 0 | 0 | -8.1    | -8.1    |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 91.7  | 91.7  | 1 | 15868.9 | 72.2 | 125  | 95.01 | 0 | 1.12  | 0 | 0     | 6.52    | 0 | 0 | 0 | 0 | 0 | 0 | -11.0   | -11.0   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 98.7  | 98.7  | 1 | 15868.9 | 72.2 | 250  | 95.01 | 0 | -0.59 | 0 | 0     | 16.56   | 0 | 0 | 0 | 0 | 0 | 0 | -12.3   | -12.3   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 100.8 | 100.8 | 1 | 15868.9 | 72.2 | 500  | 95.01 | 0 | -1.56 | 0 | 0     | 30.59   | 0 | 0 | 0 | 0 | 0 | 0 | -23.2   | -23.2   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 98.3  | 98.3  | 1 | 15868.9 | 72.2 | 1000 | 95.01 | 0 | -1.56 | 0 | 0     | 58.04   | 0 | 0 | 0 | 0 | 0 | 0 | -53.2   | -53.2   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 92.8  | 92.8  | 1 | 15868.9 | 72.2 | 2000 | 95.01 | 0 | -1.56 | 0 | 0     | 153.36  | 0 | 0 | 0 | 0 | 0 | 0 | -154.0  | -154.0  |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 85.9  | 85.9  | 1 | 15868.9 | 72.2 | 4000 | 95.01 | 0 | -1.56 | 0 | 0     | 520.02  | 0 | 0 | 0 | 0 | 0 | 0 | -527.6  | -527.6  |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 73.3  | 73.3  | 1 | 15868.9 | 72.2 | 8000 | 95.01 | 0 | -1.56 | 0 | 0     | 1854.79 | 0 | 0 | 0 | 0 | 0 | 0 | -1874.9 | -1874.9 |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 16532.0 | 72.9 | 32   | 95.37 | 0 | -5.24 | 0 | 0     | 0.53    | 0 | 0 | 0 | 0 | 0 | 0 | -130.1  | -130.1  |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 16532.0 | 72.9 | 63   | 95.37 | 0 | -5.24 | 0 | 0     | 2.01    | 0 | 0 | 0 | 0 | 0 | 0 | -8.5    | -8.5    |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 16532.0 | 72.9 | 125  | 95.37 | 0 | 1.11  | 0 | 0     | 6.79    | 0 | 0 | 0 | 0 | 0 | 0 | -11.6   | -11.6   |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 16532.0 | 72.9 | 250  | 95.37 | 0 | -0.6  | 0 | 0     | 17.25   | 0 | 0 | 0 | 0 | 0 | 0 | -13.3   | -13.3   |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 16532.0 | 72.9 | 500  | 95.37 | 0 | -1.57 | 0 | 0     | 31.87   | 0 | 0 | 0 | 0 | 0 | 0 | -24.9   | -24.9   |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 16532.0 | 72.9 | 1000 | 95.37 | 0 | -1.57 | 0 | 0 | 60.47   | 0 | 0 | 0 | 0 | 0 | 0 | -56.0   | -56.0   |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 16532.0 | 72.9 | 2000 | 95.37 | 0 | -1.57 | 0 | 0 | 159.76  | 0 | 0 | 0 | 0 | 0 | 0 | -160.8  | -160.8  |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 16532.0 | 72.9 | 4000 | 95.37 | 0 | -1.57 | 0 | 0 | 541.75  | 0 | 0 | 0 | 0 | 0 | 0 | -549.7  | -549.7  |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 16532.0 | 72.9 | 8000 | 95.37 | 0 | -1.57 | 0 | 0 | 1932.29 | 0 | 0 | 0 | 0 | 0 | 0 | -1952.8 | -1952.8 |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 16614.2 | 72.8 | 32   | 95.41 | 0 | -5.24 | 0 | 0 | 0.53    | 0 | 0 | 0 | 0 | 0 | 0 | -130.1  | -130.1  |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 16614.2 | 72.8 | 63   | 95.41 | 0 | -5.24 | 0 | 0 | 2.02    | 0 | 0 | 0 | 0 | 0 | 0 | -8.6    | -8.6    |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 16614.2 | 72.8 | 125  | 95.41 | 0 | 1.11  | 0 | 0 | 6.83    | 0 | 0 | 0 | 0 | 0 | 0 | -11.7   | -11.7   |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 16614.2 | 72.8 | 250  | 95.41 | 0 | -0.6  | 0 | 0 | 17.33   | 0 | 0 | 0 | 0 | 0 | 0 | -13.4   | -13.4   |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 16614.2 | 72.8 | 500  | 95.41 | 0 | -1.57 | 0 | 0 | 32.03   | 0 | 0 | 0 | 0 | 0 | 0 | -25.1   | -25.1   |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 16614.2 | 72.8 | 1000 | 95.41 | 0 | -1.57 | 0 | 0 | 60.77   | 0 | 0 | 0 | 0 | 0 | 0 | -56.3   | -56.3   |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 16614.2 | 72.8 | 2000 | 95.41 | 0 | -1.57 | 0 | 0 | 160.56  | 0 | 0 | 0 | 0 | 0 | 0 | -161.6  | -161.6  |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 16614.2 | 72.8 | 4000 | 95.41 | 0 | -1.57 | 0 | 0 | 544.45  | 0 | 0 | 0 | 0 | 0 | 0 | -552.4  | -552.4  |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 16614.2 | 72.8 | 8000 | 95.41 | 0 | -1.57 | 0 | 0 | 1941.9  | 0 | 0 | 0 | 0 | 0 | 0 | -1962.4 | -1962.4 |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | -39.4 | -39.4 | 1 | 16915.2 | 72.0 | 32   | 95.57 | 0 | -5.26 | 0 | 0 | 0.54    | 0 | 0 | 0 | 0 | 0 | 0 | -130.3  | -130.3  |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 83.6  | 83.6  | 1 | 16915.2 | 72.0 | 63   | 95.57 | 0 | -5.26 | 0 | 0 | 2.06    | 0 | 0 | 0 | 0 | 0 | 0 | -8.8    | -8.8    |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 91.7  | 91.7  | 1 | 16915.2 | 72.0 | 125  | 95.57 | 0 | 1.11  | 0 | 0 | 6.95    | 0 | 0 | 0 | 0 | 0 | 0 | -11.9   | -11.9   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 98.7  | 98.7  | 1 | 16915.2 | 72.0 | 250  | 95.57 | 0 | -0.6  | 0 | 0 | 17.65   | 0 | 0 | 0 | 0 | 0 | 0 | -13.9   | -13.9   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 100.8 | 100.8 | 1 | 16915.2 | 72.0 | 500  | 95.57 | 0 | -1.58 | 0 | 0 | 32.61   | 0 | 0 | 0 | 0 | 0 | 0 | -25.8   | -25.8   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 98.3  | 98.3  | 1 | 16915.2 | 72.0 | 1000 | 95.57 | 0 | -1.58 | 0 | 0 | 61.87   | 0 | 0 | 0 | 0 | 0 | 0 | -57.6   | -57.6   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 92.8  | 92.8  | 1 | 16915.2 | 72.0 | 2000 | 95.57 | 0 | -1.58 | 0 | 0 | 163.47  | 0 | 0 | 0 | 0 | 0 | 0 | -164.7  | -164.7  |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 85.9  | 85.9  | 1 | 16915.2 | 72.0 | 4000 | 95.57 | 0 | -1.58 | 0 | 0 | 554.31  | 0 | 0 | 0 | 0 | 0 | 0 | -562.4  | -562.4  |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 73.3  | 73.3  | 1 | 16915.2 | 72.0 | 8000 | 95.57 | 0 | -1.58 | 0 | 0 | 1977.08 | 0 | 0 | 0 | 0 | 0 | 0 | -1997.8 | -1997.8 |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17238.0 | 72.9 | 32   | 95.73 | 0 | -5.27 | 0 | 0 | 0.55    | 0 | 0 | 0 | 0 | 0 | 0 | -130.4  | -130.4  |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17238.0 | 72.9 | 63   | 95.73 | 0 | -5.27 | 0 | 0 | 2.1     | 0 | 0 | 0 | 0 | 0 | 0 | -9.0    | -9.0    |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17238.0 | 72.9 | 125  | 95.73 | 0 | 1.1   | 0 | 0 | 7.08    | 0 | 0 | 0 | 0 | 0 | 0 | -12.2   | -12.2   |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17238.0 | 72.9 | 250  | 95.73 | 0 | -0.61 | 0 | 0 | 17.99   | 0 | 0 | 0 | 0 | 0 | 0 | -14.4   | -14.4   |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17238.0 | 72.9 | 500  | 95.73 | 0 | -1.58 | 0 | 0 | 33.23   | 0 | 0 | 0 | 0 | 0 | 0 | -26.6   | -26.6   |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17238.0 | 72.9 | 1000 | 95.73 | 0 | -1.58 | 0 | 0 | 63.05   | 0 | 0 | 0 | 0 | 0 | 0 | -58.9   | -58.9   |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17238.0 | 72.9 | 2000 | 95.73 | 0 | -1.58 | 0 | 0 | 166.59  | 0 | 0 | 0 | 0 | 0 | 0 | -167.9  | -167.9  |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17238.0 | 72.9 | 4000 | 95.73 | 0 | -1.58 | 0 | 0 | 564.89  | 0 | 0 | 0 | 0 | 0 | 0 | -573.1  | -573.1  |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17238.0 | 72.9 | 8000 | 95.73 | 0 | -1.58 | 0 | 0 | 2014.81 | 0 | 0 | 0 | 0 | 0 | 0 | -2035.7 | -2035.7 |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17348.9 | 73.3 | 32   | 95.79 | 0 | -5.28 | 0 | 0 | 0.56    | 0 | 0 | 0 | 0 | 0 | 0 | -130.5  | -130.5  |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17348.9 | 73.3 | 63   | 95.79 | 0 | -5.28 | 0 | 0 | 2.11    | 0 | 0 | 0 | 0 | 0 | 0 | -9.0    | -9.0    |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17348.9 | 73.3 | 125  | 95.79 | 0 | 1.1   | 0 | 0 | 7.13    | 0 | 0 | 0 | 0 | 0 | 0 | -12.3   | -12.3   |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17348.9 | 73.3 | 250  | 95.79 | 0 | -0.61 | 0 | 0 | 18.1    | 0 | 0 | 0 | 0 | 0 | 0 | -14.6   | -14.6   |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17348.9 | 73.3 | 500  | 95.79 | 0 | -1.58 | 0 | 0 | 33.45   | 0 | 0 | 0 | 0 | 0 | 0 | -26.9   | -26.9   |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17348.9 | 73.3 | 1000 | 95.79 | 0 | -1.58 | 0 | 0 | 63.46   | 0 | 0 | 0 | 0 | 0 | 0 | -59.4   | -59.4   |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17348.9 | 73.3 | 2000 | 95.79 | 0 | -1.58 | 0 | 0 | 167.66  | 0 | 0 | 0 | 0 | 0 | 0 | -169.1  | -169.1  |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17348.9 | 73.3 | 4000 | 95.79 | 0 | -1.58 | 0 | 0 | 568.52  | 0 | 0 | 0 | 0 | 0 | 0 | -576.8  | -576.8  |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17348.9 | 73.3 | 8000 | 95.79 | 0 | -1.58 | 0 | 0 | 2027.77 | 0 | 0 | 0 | 0 | 0 | 0 | -2048.7 | -2048.7 |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17384.0 | 72.6 | 32   | 95.8  | 0 | -5.28 | 0 | 0 | 0.56    | 0 | 0 | 0 | 0 | 0 | 0 | -130.5  | -130.5  |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17384.0 | 72.6 | 63   | 95.8  | 0 | -5.28 | 0 | 0 | 2.12    | 0 | 0 | 0 | 0 | 0 | 0 | -9.0    | -9.0    |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17384.0 | 72.6 | 125  | 95.8  | 0 | 1.1   | 0 | 0 | 7.14    | 0 | 0 | 0 | 0 | 0 | 0 | -12.4   | -12.4   |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17384.0 | 72.6 | 250  | 95.8  | 0 | -0.61 | 0 | 0 | 18.14   | 0 | 0 | 0 | 0 | 0 | 0 | -14.6   | -14.6   |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17384.0 | 72.6 | 500  | 95.8  | 0 | -1.58 | 0 | 0 | 33.51   | 0 | 0 | 0 | 0 | 0 | 0 | -26.9   | -26.9   |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17384.0 | 72.6 | 1000 | 95.8  | 0 | -1.58 | 0 | 0 | 63.59   | 0 | 0 | 0 | 0 | 0 | 0 | -59.5   | -59.5   |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17384.0 | 72.6 | 2000 | 95.8  | 0 | -1.58 | 0 | 0 | 168     | 0 | 0 | 0 | 0 | 0 | 0 | -169.4  | -169.4  |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |      |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|------|---|---------|---|---|---|---|---|---|---------|---------|
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17384.0 | 72.6 | 4000 | 95.8  | 0 | -1.58 | 0    | 0 | 569.67  | 0 | 0 | 0 | 0 | 0 | 0 | -578.0  | -578.0  |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17384.0 | 72.6 | 8000 | 95.8  | 0 | -1.58 | 0    | 0 | 2031.87 | 0 | 0 | 0 | 0 | 0 | 0 | -2052.8 | -2052.8 |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17427.7 | 72.2 | 32   | 95.82 | 0 | -5.28 | 0    | 0 | 0.56    | 0 | 0 | 0 | 0 | 0 | 0 | -130.5  | -130.5  |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17427.7 | 72.2 | 63   | 95.82 | 0 | -5.28 | 0    | 0 | 2.12    | 0 | 0 | 0 | 0 | 0 | 0 | -9.1    | -9.1    |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17427.7 | 72.2 | 125  | 95.82 | 0 | 1.1   | 0    | 0 | 7.16    | 0 | 0 | 0 | 0 | 0 | 0 | -12.4   | -12.4   |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17427.7 | 72.2 | 250  | 95.82 | 0 | -0.61 | 0    | 0 | 18.18   | 0 | 0 | 0 | 0 | 0 | 0 | -14.7   | -14.7   |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17427.7 | 72.2 | 500  | 95.82 | 0 | -1.58 | 0    | 0 | 33.6    | 0 | 0 | 0 | 0 | 0 | 0 | -27.0   | -27.0   |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17427.7 | 72.2 | 1000 | 95.82 | 0 | -1.58 | 0    | 0 | 63.74   | 0 | 0 | 0 | 0 | 0 | 0 | -59.7   | -59.7   |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17427.7 | 72.2 | 2000 | 95.82 | 0 | -1.58 | 0    | 0 | 168.42  | 0 | 0 | 0 | 0 | 0 | 0 | -169.9  | -169.9  |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17427.7 | 72.2 | 4000 | 95.82 | 0 | -1.58 | 0    | 0 | 571.11  | 0 | 0 | 0 | 0 | 0 | 0 | -579.5  | -579.5  |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17427.7 | 72.2 | 8000 | 95.82 | 0 | -1.58 | 0    | 0 | 2036.98 | 0 | 0 | 0 | 0 | 0 | 0 | -2057.9 | -2057.9 |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 50.6  | 50.6  | 1 | 14577.0 | 6.4  | 32   | 94.27 | 0 | -5.95 | 4.77 | 0 | 0.47    | 0 | 0 | 0 | 0 | 0 | 0 | -43.0   | -43.0   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 72.8  | 72.8  | 1 | 14577.0 | 6.4  | 63   | 94.27 | 0 | -5.95 | 4.77 | 0 | 1.77    | 0 | 0 | 0 | 0 | 0 | 0 | -22.1   | -22.1   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 87.9  | 87.9  | 1 | 14577.0 | 6.4  | 125  | 94.27 | 0 | 3.78  | 0.99 | 0 | 5.99    | 0 | 0 | 0 | 0 | 0 | 0 | -17.1   | -17.1   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 94.4  | 94.4  | 1 | 14577.0 | 6.4  | 250  | 94.27 | 0 | 0.94  | 3.83 | 0 | 15.21   | 0 | 0 | 0 | 0 | 0 | 0 | -19.9   | -19.9   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 99.8  | 99.8  | 1 | 14577.0 | 6.4  | 500  | 94.27 | 0 | -1.77 | 4.77 | 0 | 28.1    | 0 | 0 | 0 | 0 | 0 | 0 | -25.6   | -25.6   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 97.0  | 97.0  | 1 | 14577.0 | 6.4  | 1000 | 94.27 | 0 | -1.78 | 4.77 | 0 | 53.32   | 0 | 0 | 0 | 0 | 0 | 0 | -53.6   | -53.6   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 93.2  | 93.2  | 1 | 14577.0 | 6.4  | 2000 | 94.27 | 0 | -1.78 | 4.77 | 0 | 140.87  | 0 | 0 | 0 | 0 | 0 | 0 | -144.9  | -144.9  |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 88.0  | 88.0  | 1 | 14577.0 | 6.4  | 4000 | 94.27 | 0 | -1.78 | 4.77 | 0 | 477.69  | 0 | 0 | 0 | 0 | 0 | 0 | -487.0  | -487.0  |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 78.9  | 78.9  | 1 | 14577.0 | 6.4  | 8000 | 94.27 | 0 | -1.78 | 4.77 | 0 | 1703.79 | 0 | 0 | 0 | 0 | 0 | 0 | -1722.2 | -1722.2 |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17803.0 | 71.8 | 32   | 96.01 | 0 | -5.29 | 0    | 0 | 0.57    | 0 | 0 | 0 | 0 | 0 | 0 | -130.7  | -130.7  |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17803.0 | 71.8 | 63   | 96.01 | 0 | -5.29 | 0    | 0 | 2.17    | 0 | 0 | 0 | 0 | 0 | 0 | -9.3    | -9.3    |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17803.0 | 71.8 | 125  | 96.01 | 0 | 1.09  | 0    | 0 | 7.32    | 0 | 0 | 0 | 0 | 0 | 0 | -12.7   | -12.7   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17803.0 | 71.8 | 250  | 96.01 | 0 | -0.62 | 0    | 0 | 18.58   | 0 | 0 | 0 | 0 | 0 | 0 | -15.3   | -15.3   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17803.0 | 71.8 | 500  | 96.01 | 0 | -1.59 | 0    | 0 | 34.32   | 0 | 0 | 0 | 0 | 0 | 0 | -27.9   | -27.9   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17803.0 | 71.8 | 1000 | 96.01 | 0 | -1.59 | 0    | 0 | 65.12   | 0 | 0 | 0 | 0 | 0 | 0 | -61.2   | -61.2   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17803.0 | 71.8 | 2000 | 96.01 | 0 | -1.59 | 0    | 0 | 172.05  | 0 | 0 | 0 | 0 | 0 | 0 | -173.7  | -173.7  |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17803.0 | 71.8 | 4000 | 96.01 | 0 | -1.59 | 0    | 0 | 583.41  | 0 | 0 | 0 | 0 | 0 | 0 | -591.9  | -591.9  |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17803.0 | 71.8 | 8000 | 96.01 | 0 | -1.59 | 0    | 0 | 2080.85 | 0 | 0 | 0 | 0 | 0 | 0 | -2102.0 | -2102.0 |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17850.6 | 71.9 | 32   | 96.03 | 0 | -5.3  | 0    | 0 | 0.57    | 0 | 0 | 0 | 0 | 0 | 0 | -130.7  | -130.7  |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17850.6 | 71.9 | 63   | 96.03 | 0 | -5.3  | 0    | 0 | 2.17    | 0 | 0 | 0 | 0 | 0 | 0 | -9.3    | -9.3    |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17850.6 | 71.9 | 125  | 96.03 | 0 | 1.09  | 0    | 0 | 7.34    | 0 | 0 | 0 | 0 | 0 | 0 | -12.8   | -12.8   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17850.6 | 71.9 | 250  | 96.03 | 0 | -0.62 | 0    | 0 | 18.62   | 0 | 0 | 0 | 0 | 0 | 0 | -15.3   | -15.3   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17850.6 | 71.9 | 500  | 96.03 | 0 | -1.59 | 0    | 0 | 34.41   | 0 | 0 | 0 | 0 | 0 | 0 | -28.1   | -28.1   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17850.6 | 71.9 | 1000 | 96.03 | 0 | -1.59 | 0    | 0 | 65.29   | 0 | 0 | 0 | 0 | 0 | 0 | -61.4   | -61.4   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17850.6 | 71.9 | 2000 | 96.03 | 0 | -1.59 | 0    | 0 | 172.51  | 0 | 0 | 0 | 0 | 0 | 0 | -174.2  | -174.2  |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17850.6 | 71.9 | 4000 | 96.03 | 0 | -1.59 | 0    | 0 | 584.96  | 0 | 0 | 0 | 0 | 0 | 0 | -593.5  | -593.5  |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17850.6 | 71.9 | 8000 | 96.03 | 0 | -1.59 | 0    | 0 | 2086.41 | 0 | 0 | 0 | 0 | 0 | 0 | -2107.6 | -2107.6 |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17880.1 | 72.8 | 32   | 96.05 | 0 | -5.3  | 0    | 0 | 0.57    | 0 | 0 | 0 | 0 | 0 | 0 | -130.7  | -130.7  |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17880.1 | 72.8 | 63   | 96.05 | 0 | -5.3  | 0    | 0 | 2.18    | 0 | 0 | 0 | 0 | 0 | 0 | -9.3    | -9.3    |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17880.1 | 72.8 | 125  | 96.05 | 0 | 1.09  | 0    | 0 | 7.35    | 0 | 0 | 0 | 0 | 0 | 0 | -12.8   | -12.8   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17880.1 | 72.8 | 250  | 96.05 | 0 | -0.62 | 0    | 0 | 18.66   | 0 | 0 | 0 | 0 | 0 | 0 | -15.4   | -15.4   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17880.1 | 72.8 | 500  | 96.05 | 0 | -1.59 | 0    | 0 | 34.47   | 0 | 0 | 0 | 0 | 0 | 0 | -28.1   | -28.1   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17880.1 | 72.8 | 1000 | 96.05 | 0 | -1.59 | 0    | 0 | 65.4    | 0 | 0 | 0 | 0 | 0 | 0 | -61.6   | -61.6   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17880.1 | 72.8 | 2000 | 96.05 | 0 | -1.59 | 0    | 0 | 172.79  | 0 | 0 | 0 | 0 | 0 | 0 | -174.5  | -174.5  |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17880.1 | 72.8 | 4000 | 96.05 | 0 | -1.59 | 0    | 0 | 585.93  | 0 | 0 | 0 | 0 | 0 | 0 | -594.5  | -594.5  |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17880.1 | 72.8 | 8000 | 96.05 | 0 | -1.59 | 0    | 0 | 2089.86 | 0 | 0 | 0 | 0 | 0 | 0 | -2111.0 | -2111.0 |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |       |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|-------|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---------|
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17951.8 | 72.3 | 32   | 96.08 | 0 | -5.3  | 0 | 0     | 0.57    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -130.8  | -130.8  |         |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17951.8 | 72.3 | 63   | 96.08 | 0 | -5.3  | 0 | 0     | 2.18    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -9.4    | -9.4    |         |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17951.8 | 72.3 | 125  | 96.08 | 0 | 1.09  | 0 | 0     | 7.38    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -12.9   | -12.9   |         |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17951.8 | 72.3 | 250  | 96.08 | 0 | -0.62 | 0 | 0     | 18.73   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -15.5   | -15.5   |         |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17951.8 | 72.3 | 500  | 96.08 | 0 | -1.59 | 0 | 0     | 34.61   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -28.3   | -28.3   |         |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17951.8 | 72.3 | 1000 | 96.08 | 0 | -1.59 | 0 | 0     | 65.66   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -61.9   | -61.9   |         |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17951.8 | 72.3 | 2000 | 96.08 | 0 | -1.59 | 0 | 0     | 173.48  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -175.2  | -175.2  |         |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17951.8 | 72.3 | 4000 | 96.08 | 0 | -1.59 | 0 | 0     | 588.28  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -596.9  | -596.9  |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17951.8 | 72.3 | 8000 | 96.08 | 0 | -1.59 | 0 | 0     | 2098.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2119.4 | -2119.4 |         |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18533.7 | 72.0 | 32   | 96.36 | 0 | -5.32 | 0 | 0     | 0.59    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -131.0  | -131.0  |         |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18533.7 | 72.0 | 63   | 96.36 | 0 | -5.32 | 0 | 0     | 2.26    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -9.7    | -9.7    |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18533.7 | 72.0 | 125  | 96.36 | 0 | 1.09  | 0 | 0     | 7.62    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -13.4   | -13.4   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18533.7 | 72.0 | 250  | 96.36 | 0 | -0.62 | 0 | 0     | 19.34   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -16.4   | -16.4   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18533.7 | 72.0 | 500  | 96.36 | 0 | -1.6  | 0 | 0     | 35.73   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -29.7   | -29.7   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18533.7 | 72.0 | 1000 | 96.36 | 0 | -1.6  | 0 | 0     | 67.79   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -64.3   | -64.3   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18533.7 | 72.0 | 2000 | 96.36 | 0 | -1.6  | 0 | 0     | 179.11  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -181.1  | -181.1  |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18533.7 | 72.0 | 4000 | 96.36 | 0 | -1.6  | 0 | 0     | 607.35  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -616.2  | -616.2  |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18533.7 | 72.0 | 8000 | 96.36 | 0 | -1.6  | 0 | 0     | 2166.26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -2187.7 | -2187.7 |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18563.9 | 72.6 | 32   | 96.37 | 0 | -5.32 | 0 | 0     | 0.59    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -131.0  | -131.0  |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18563.9 | 72.6 | 63   | 96.37 | 0 | -5.32 | 0 | 0     | 2.26    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -9.7    | -9.7    |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18563.9 | 72.6 | 125  | 96.37 | 0 | 1.09  | 0 | 0     | 7.63    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -13.4   | -13.4   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18563.9 | 72.6 | 250  | 96.37 | 0 | -0.62 | 0 | 0     | 19.37   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -16.4   | -16.4   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18563.9 | 72.6 | 500  | 96.37 | 0 | -1.6  | 0 | 0     | 35.79   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -29.8   | -29.8   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18563.9 | 72.6 | 1000 | 96.37 | 0 | -1.6  | 0 | 0     | 67.9    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -64.4   | -64.4   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18563.9 | 72.6 | 2000 | 96.37 | 0 | -1.6  | 0 | 0     | 179.4   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -181.4  | -181.4  |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18563.9 | 72.6 | 4000 | 96.37 | 0 | -1.6  | 0 | 0     | 608.34  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -617.2  | -617.2  |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18563.9 | 72.6 | 8000 | 96.37 | 0 | -1.6  | 0 | 0     | 2169.79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -2191.3 | -2191.3 |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | -39.4 | -39.4 | 1 | 18571.6 | 73.5 | 32   | 96.38 | 0 | -5.32 | 0 | -0.38 | 0.59    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -131.1  | -131.1  |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 83.6  | 83.6  | 1 | 18571.6 | 73.5 | 63   | 96.38 | 0 | -5.32 | 0 | -0.38 | 2.26    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -9.7    | -9.7    |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 91.7  | 91.7  | 1 | 18571.6 | 73.5 | 125  | 96.38 | 0 | 1.09  | 0 | -0.38 | 7.63    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -13.4   | -13.4   |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 98.7  | 98.7  | 1 | 18571.6 | 73.5 | 250  | 96.38 | 0 | -0.62 | 0 | -0.38 | 19.38   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -16.4   | -16.4   |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 100.8 | 100.8 | 1 | 18571.6 | 73.5 | 500  | 96.38 | 0 | -1.6  | 0 | -0.38 | 35.8    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -29.8   | -29.8   |         |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 98.3  | 98.3  | 1 | 18571.6 | 73.5 | 1000 | 96.38 | 0 | -1.6  | 0 | -0.38 | 67.93   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -64.4   | -64.4   |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 92.8  | 92.8  | 1 | 18571.6 | 73.5 | 2000 | 96.38 | 0 | -1.6  | 0 | -0.38 | 179.47  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -181.5  | -181.5  |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 85.9  | 85.9  | 1 | 18571.6 | 73.5 | 4000 | 96.38 | 0 | -1.6  | 0 | -0.38 | 608.59  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -617.5  | -617.5  |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 73.3  | 73.3  | 1 | 18571.6 | 73.5 | 8000 | 96.38 | 0 | -1.6  | 0 | -0.38 | 2170.68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -2192.2 | -2192.2 |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18639.2 | 71.6 | 32   | 96.41 | 0 | -5.33 | 0 | 0     | 0.6     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -131.1  | -131.1  |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18639.2 | 71.6 | 63   | 96.41 | 0 | -5.33 | 0 | 0     | 2.27    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -9.8    | -9.8    |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18639.2 | 71.6 | 125  | 96.41 | 0 | 1.08  | 0 | 0     | 7.66    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -13.5   | -13.5   |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18639.2 | 71.6 | 250  | 96.41 | 0 | -0.62 | 0 | 0     | 19.45   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | -16.5   | -16.5   |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18639.2 | 71.6 | 500  |       |   |       |   |       |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |         |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18698.7 | 71.9 | 125  | 96.44 | 0 | 1.08  | 0 | 0 | 7.68    | 0 | 0 | 0 | 0 | 0 | 0 | -13.5   | -13.5   |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18698.7 | 71.9 | 250  | 96.44 | 0 | -0.63 | 0 | 0 | 19.51   | 0 | 0 | 0 | 0 | 0 | 0 | -16.6   | -16.6   |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18698.7 | 71.9 | 500  | 96.44 | 0 | -1.6  | 0 | 0 | 36.05   | 0 | 0 | 0 | 0 | 0 | 0 | -30.1   | -30.1   |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18698.7 | 71.9 | 1000 | 96.44 | 0 | -1.6  | 0 | 0 | 68.39   | 0 | 0 | 0 | 0 | 0 | 0 | -64.9   | -64.9   |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18698.7 | 71.9 | 2000 | 96.44 | 0 | -1.6  | 0 | 0 | 180.7   | 0 | 0 | 0 | 0 | 0 | 0 | -182.7  | -182.7  |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18698.7 | 71.9 | 4000 | 96.44 | 0 | -1.6  | 0 | 0 | 612.76  | 0 | 0 | 0 | 0 | 0 | 0 | -621.7  | -621.7  |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18698.7 | 71.9 | 8000 | 96.44 | 0 | -1.6  | 0 | 0 | 2185.54 | 0 | 0 | 0 | 0 | 0 | 0 | -2207.1 | -2207.1 |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 18794.2 | 75.3 | 32   | 96.48 | 0 | -5.33 | 0 | 0 | 0.6     | 0 | 0 | 0 | 0 | 0 | 0 | -131.2  | -131.2  |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 18794.2 | 75.3 | 63   | 96.48 | 0 | -5.33 | 0 | 0 | 2.29    | 0 | 0 | 0 | 0 | 0 | 0 | -9.8    | -9.8    |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 18794.2 | 75.3 | 125  | 96.48 | 0 | 1.08  | 0 | 0 | 7.72    | 0 | 0 | 0 | 0 | 0 | 0 | -13.6   | -13.6   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 18794.2 | 75.3 | 250  | 96.48 | 0 | -0.63 | 0 | 0 | 19.61   | 0 | 0 | 0 | 0 | 0 | 0 | -16.8   | -16.8   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 18794.2 | 75.3 | 500  | 96.48 | 0 | -1.6  | 0 | 0 | 36.23   | 0 | 0 | 0 | 0 | 0 | 0 | -30.3   | -30.3   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 18794.2 | 75.3 | 1000 | 96.48 | 0 | -1.6  | 0 | 0 | 68.74   | 0 | 0 | 0 | 0 | 0 | 0 | -65.3   | -65.3   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 18794.2 | 75.3 | 2000 | 96.48 | 0 | -1.6  | 0 | 0 | 181.63  | 0 | 0 | 0 | 0 | 0 | 0 | -183.7  | -183.7  |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 18794.2 | 75.3 | 4000 | 96.48 | 0 | -1.6  | 0 | 0 | 615.89  | 0 | 0 | 0 | 0 | 0 | 0 | -624.9  | -624.9  |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 18794.2 | 75.3 | 8000 | 96.48 | 0 | -1.6  | 0 | 0 | 2196.7  | 0 | 0 | 0 | 0 | 0 | 0 | -2218.3 | -2218.3 |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 15894.1 | 70.4 | 32   | 95.02 | 0 | -5.21 | 0 | 0 | 0.51    | 0 | 0 | 0 | 0 | 0 | 0 | -129.7  | -129.7  |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 86.6  | 86.6  | 1 | 15894.1 | 70.4 | 63   | 95.02 | 0 | -5.21 | 0 | 0 | 1.93    | 0 | 0 | 0 | 0 | 0 | 0 | -5.2    | -5.2    |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 94.7  | 94.7  | 1 | 15894.1 | 70.4 | 125  | 95.02 | 0 | 1.12  | 0 | 0 | 6.53    | 0 | 0 | 0 | 0 | 0 | 0 | -8.0    | -8.0    |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 94.4  | 94.4  | 1 | 15894.1 | 70.4 | 250  | 95.02 | 0 | -0.59 | 0 | 0 | 16.58   | 0 | 0 | 0 | 0 | 0 | 0 | -16.6   | -16.6   |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 97.3  | 97.3  | 1 | 15894.1 | 70.4 | 500  | 95.02 | 0 | -1.56 | 0 | 0 | 30.64   | 0 | 0 | 0 | 0 | 0 | 0 | -26.8   | -26.8   |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 15894.1 | 70.4 | 1000 | 95.02 | 0 | -1.56 | 0 | 0 | 58.14   | 0 | 0 | 0 | 0 | 0 | 0 | -52.9   | -52.9   |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 93.8  | 93.8  | 1 | 15894.1 | 70.4 | 2000 | 95.02 | 0 | -1.56 | 0 | 0 | 153.6   | 0 | 0 | 0 | 0 | 0 | 0 | -153.3  | -153.3  |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 81.5  | 81.5  | 1 | 15894.1 | 70.4 | 4000 | 95.02 | 0 | -1.56 | 0 | 0 | 520.85  | 0 | 0 | 0 | 0 | 0 | 0 | -532.8  | -532.8  |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 73.4  | 73.4  | 1 | 15894.1 | 70.4 | 8000 | 95.02 | 0 | -1.56 | 0 | 0 | 1857.73 | 0 | 0 | 0 | 0 | 0 | 0 | -1877.8 | -1877.8 |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 19233.5 | 73.9 | 32   | 96.68 | 0 | -5.35 | 0 | 0 | 0.62    | 0 | 0 | 0 | 0 | 0 | 0 | -131.4  | -131.4  |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 19233.5 | 73.9 | 63   | 96.68 | 0 | -5.35 | 0 | 0 | 2.34    | 0 | 0 | 0 | 0 | 0 | 0 | -10.1   | -10.1   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 19233.5 | 73.9 | 125  | 96.68 | 0 | 1.08  | 0 | 0 | 7.9     | 0 | 0 | 0 | 0 | 0 | 0 | -14.0   | -14.0   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 19233.5 | 73.9 | 250  | 96.68 | 0 | -0.63 | 0 | 0 | 20.07   | 0 | 0 | 0 | 0 | 0 | 0 | -17.4   | -17.4   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 19233.5 | 73.9 | 500  | 96.68 | 0 | -1.6  | 0 | 0 | 37.08   | 0 | 0 | 0 | 0 | 0 | 0 | -31.4   | -31.4   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 19233.5 | 73.9 | 1000 | 96.68 | 0 | -1.6  | 0 | 0 | 70.35   | 0 | 0 | 0 | 0 | 0 | 0 | -67.1   | -67.1   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 19233.5 | 73.9 | 2000 | 96.68 | 0 | -1.6  | 0 | 0 | 185.87  | 0 | 0 | 0 | 0 | 0 | 0 | -188.2  | -188.2  |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 19233.5 | 73.9 | 4000 | 96.68 | 0 | -1.6  | 0 | 0 | 630.28  | 0 | 0 | 0 | 0 | 0 | 0 | -639.5  | -639.5  |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 19233.5 | 73.9 | 8000 | 96.68 | 0 | -1.6  | 0 | 0 | 2248.05 | 0 | 0 | 0 | 0 | 0 | 0 | -2269.8 | -2269.8 |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | -39.4 | -39.4 | 1 | 19292.9 | 73.5 | 32   | 96.71 | 0 | -5.35 | 0 | 0 | 0.62    | 0 | 0 | 0 | 0 | 0 | 0 | -131.4  | -131.4  |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 83.6  | 83.6  | 1 | 19292.9 | 73.5 | 63   | 96.71 | 0 | -5.35 | 0 | 0 | 2.35    | 0 | 0 | 0 | 0 | 0 | 0 | -10.1   | -10.1   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 91.7  | 91.7  | 1 | 19292.9 | 73.5 | 125  | 96.71 | 0 | 1.08  | 0 | 0 | 7.93    | 0 | 0 | 0 | 0 | 0 | 0 | -14.0   | -14.0   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 98.7  | 98.7  | 1 | 19292.9 | 73.5 | 250  | 96.71 | 0 | -0.63 | 0 | 0 | 20.13   | 0 | 0 | 0 | 0 | 0 | 0 | -17.5   | -17.5   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 100.8 | 100.8 | 1 | 19292.9 | 73.5 | 500  | 96.71 | 0 | -1.6  | 0 | 0 | 37.19   | 0 | 0 | 0 | 0 | 0 | 0 | -31.5   | -31.5   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 98.3  | 98.3  | 1 | 19292.9 | 73.5 | 1000 | 96.71 | 0 | -1.6  | 0 | 0 | 70.57   | 0 | 0 | 0 | 0 | 0 | 0 | -67.4   | -67.4   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 92.8  | 92.8  | 1 | 19292.9 | 73.5 | 2000 | 96.71 | 0 | -1.6  | 0 | 0 | 186.44  | 0 | 0 | 0 | 0 | 0 | 0 | -188.8  | -188.8  |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 85.9  | 85.9  | 1 | 19292.9 | 73.5 | 4000 | 96.71 | 0 | -1.6  | 0 | 0 | 632.23  | 0 | 0 | 0 | 0 | 0 | 0 | -641.4  | -641.4  |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 73.3  | 73.3  | 1 | 19292.9 | 73.5 | 8000 | 96.71 | 0 | -1.6  | 0 | 0 | 2254.99 | 0 | 0 | 0 | 0 | 0 | 0 | -2276.8 | -2276.8 |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 19318.8 | 73.9 | 32   | 96.72 | 0 | -5.35 | 0 | 0 | 0.62    | 0 | 0 | 0 | 0 | 0 | 0 | -131.4  | -131.4  |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 19318.8 | 73.9 | 63   | 96.72 | 0 | -5.35 | 0 | 0 | 2.35    | 0 | 0 | 0 | 0 | 0 | 0 | -10.1   | -10.1   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 19318.8 | 73.9 | 125  | 96.72 | 0 | 1.08  | 0 | 0 | 7.94    | 0 | 0 | 0 | 0 | 0 | 0 | -14.0   | -14.0   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 19318.8 | 73.9 | 250  | 96.72 | 0 | -0.63 | 0 | 0 | 20.16   | 0 | 0 | 0 | 0 | 0 | 0 | -17.5   | -17.5   |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---------|---------|
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 19318.8 | 73.9 | 500  | 96.72 | 0 | -1.6  | 0 | 0 | 37.24   | 0 | 0 | 0 | 0 | 0 | -31.6   | -31.6   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 19318.8 | 73.9 | 1000 | 96.72 | 0 | -1.61 | 0 | 0 | 70.66   | 0 | 0 | 0 | 0 | 0 | -67.5   | -67.5   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 19318.8 | 73.9 | 2000 | 96.72 | 0 | -1.61 | 0 | 0 | 186.7   | 0 | 0 | 0 | 0 | 0 | -189.0  | -189.0  |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 19318.8 | 73.9 | 4000 | 96.72 | 0 | -1.61 | 0 | 0 | 633.08  | 0 | 0 | 0 | 0 | 0 | -642.3  | -642.3  |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 19318.8 | 73.9 | 8000 | 96.72 | 0 | -1.61 | 0 | 0 | 2258.02 | 0 | 0 | 0 | 0 | 0 | -2279.8 | -2279.8 |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | -39.4 | -39.4 | 1 | 19563.0 | 72.5 | 32   | 96.83 | 0 | -5.36 | 0 | 0 | 0.63    | 0 | 0 | 0 | 0 | 0 | -131.5  | -131.5  |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 83.6  | 83.6  | 1 | 19563.0 | 72.5 | 63   | 96.83 | 0 | -5.36 | 0 | 0 | 2.38    | 0 | 0 | 0 | 0 | 0 | -10.3   | -10.3   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 91.7  | 91.7  | 1 | 19563.0 | 72.5 | 125  | 96.83 | 0 | 1.08  | 0 | 0 | 8.04    | 0 | 0 | 0 | 0 | 0 | -14.2   | -14.2   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 98.7  | 98.7  | 1 | 19563.0 | 72.5 | 250  | 96.83 | 0 | -0.63 | 0 | 0 | 20.41   | 0 | 0 | 0 | 0 | 0 | -17.9   | -17.9   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 100.8 | 100.8 | 1 | 19563.0 | 72.5 | 500  | 96.83 | 0 | -1.61 | 0 | 0 | 37.71   | 0 | 0 | 0 | 0 | 0 | -32.1   | -32.1   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 98.3  | 98.3  | 1 | 19563.0 | 72.5 | 1000 | 96.83 | 0 | -1.61 | 0 | 0 | 71.56   | 0 | 0 | 0 | 0 | 0 | -68.5   | -68.5   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 92.8  | 92.8  | 1 | 19563.0 | 72.5 | 2000 | 96.83 | 0 | -1.61 | 0 | 0 | 189.06  | 0 | 0 | 0 | 0 | 0 | -191.5  | -191.5  |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 85.9  | 85.9  | 1 | 19563.0 | 72.5 | 4000 | 96.83 | 0 | -1.61 | 0 | 0 | 641.08  | 0 | 0 | 0 | 0 | 0 | -650.4  | -650.4  |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 73.3  | 73.3  | 1 | 19563.0 | 72.5 | 8000 | 96.83 | 0 | -1.61 | 0 | 0 | 2286.56 | 0 | 0 | 0 | 0 | 0 | -2308.5 | -2308.5 |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | -39.4 | -39.4 | 1 | 20072.0 | 74.9 | 32   | 97.05 | 0 | -5.37 | 0 | 0 | 0.64    | 0 | 0 | 0 | 0 | 0 | -131.7  | -131.7  |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 83.6  | 83.6  | 1 | 20072.0 | 74.9 | 63   | 97.05 | 0 | -5.37 | 0 | 0 | 2.44    | 0 | 0 | 0 | 0 | 0 | -10.5   | -10.5   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 91.7  | 91.7  | 1 | 20072.0 | 74.9 | 125  | 97.05 | 0 | 1.07  | 0 | 0 | 8.25    | 0 | 0 | 0 | 0 | 0 | -14.7   | -14.7   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 98.7  | 98.7  | 1 | 20072.0 | 74.9 | 250  | 97.05 | 0 | -0.64 | 0 | 0 | 20.94   | 0 | 0 | 0 | 0 | 0 | -18.7   | -18.7   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 100.8 | 100.8 | 1 | 20072.0 | 74.9 | 500  | 97.05 | 0 | -1.61 | 0 | 0 | 38.7    | 0 | 0 | 0 | 0 | 0 | -33.3   | -33.3   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 98.3  | 98.3  | 1 | 20072.0 | 74.9 | 1000 | 97.05 | 0 | -1.61 | 0 | 0 | 73.42   | 0 | 0 | 0 | 0 | 0 | -70.6   | -70.6   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 92.8  | 92.8  | 1 | 20072.0 | 74.9 | 2000 | 97.05 | 0 | -1.61 | 0 | 0 | 193.97  | 0 | 0 | 0 | 0 | 0 | -196.6  | -196.6  |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 85.9  | 85.9  | 1 | 20072.0 | 74.9 | 4000 | 97.05 | 0 | -1.61 | 0 | 0 | 657.76  | 0 | 0 | 0 | 0 | 0 | -667.3  | -667.3  |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 73.3  | 73.3  | 1 | 20072.0 | 74.9 | 8000 | 97.05 | 0 | -1.61 | 0 | 0 | 2346.06 | 0 | 0 | 0 | 0 | 0 | -2368.2 | -2368.2 |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 20413.5 | 74.6 | 32   | 97.2  | 0 | -5.38 | 0 | 0 | 0.65    | 0 | 0 | 0 | 0 | 0 | -131.9  | -131.9  |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 20413.5 | 74.6 | 63   | 97.2  | 0 | -5.38 | 0 | 0 | 2.48    | 0 | 0 | 0 | 0 | 0 | -10.7   | -10.7   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 20413.5 | 74.6 | 125  | 97.2  | 0 | 1.07  | 0 | 0 | 8.39    | 0 | 0 | 0 | 0 | 0 | -15.0   | -15.0   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 20413.5 | 74.6 | 250  | 97.2  | 0 | -0.64 | 0 | 0 | 21.3    | 0 | 0 | 0 | 0 | 0 | -19.2   | -19.2   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 20413.5 | 74.6 | 500  | 97.2  | 0 | -1.61 | 0 | 0 | 39.35   | 0 | 0 | 0 | 0 | 0 | -34.1   | -34.1   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 20413.5 | 74.6 | 1000 | 97.2  | 0 | -1.62 | 0 | 0 | 74.67   | 0 | 0 | 0 | 0 | 0 | -72.0   | -72.0   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 20413.5 | 74.6 | 2000 | 97.2  | 0 | -1.62 | 0 | 0 | 197.27  | 0 | 0 | 0 | 0 | 0 | -200.1  | -200.1  |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 20413.5 | 74.6 | 4000 | 97.2  | 0 | -1.62 | 0 | 0 | 668.95  | 0 | 0 | 0 | 0 | 0 | -678.6  | -678.6  |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 20413.5 | 74.6 | 8000 | 97.2  | 0 | -1.62 | 0 | 0 | 2385.97 | 0 | 0 | 0 | 0 | 0 | -2408.3 | -2408.3 |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 20447.8 | 74.6 | 32   | 97.21 | 0 | -5.39 | 0 | 0 | 0.65    | 0 | 0 | 0 | 0 | 0 | -131.9  | -131.9  |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 20447.8 | 74.6 | 63   | 97.21 | 0 | -5.39 | 0 | 0 | 2.49    | 0 | 0 | 0 | 0 | 0 | -10.7   | -10.7   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 20447.8 | 74.6 | 125  | 97.21 | 0 | 1.07  | 0 | 0 | 8.4     | 0 | 0 | 0 | 0 | 0 | -15.0   | -15.0   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 20447.8 | 74.6 | 250  | 97.21 | 0 | -0.64 | 0 | 0 | 21.33   | 0 | 0 | 0 | 0 | 0 | -19.2   | -19.2   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 20447.8 | 74.6 | 500  | 97.21 | 0 | -1.61 | 0 | 0 | 39.42   | 0 | 0 | 0 | 0 | 0 | -34.2   | -34.2   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 20447.8 | 74.6 | 1000 | 97.21 | 0 | -1.62 | 0 | 0 | 74.79   | 0 | 0 | 0 | 0 | 0 | -72.1   | -72.1   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 20447.8 | 74.6 | 2000 | 97.21 | 0 | -1.62 | 0 | 0 | 197.61  | 0 | 0 | 0 | 0 | 0 | -200.4  | -200.4  |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 20447.8 | 74.6 | 4000 | 97.21 | 0 | -1.62 | 0 | 0 | 670.08  | 0 | 0 | 0 | 0 | 0 | -679.8  | -679.8  |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 20447.8 | 74.6 | 8000 | 97.21 | 0 | -1.62 | 0 | 0 | 2389.98 | 0 | 0 | 0 | 0 | 0 | -2412.3 | -2412.3 |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 20818.4 | 74.1 | 32   | 97.37 | 0 | -5.4  | 0 | 0 | 0.67    | 0 | 0 | 0 | 0 | 0 | -132.0  | -132.0  |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 20818.4 | 74.1 | 63   | 97.37 | 0 | -5.4  | 0 | 0 | 2.53    | 0 | 0 | 0 | 0 | 0 | -10.9   | -10.9   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 20818.4 | 74.1 | 125  | 97.37 | 0 | 1.06  | 0 | 0 | 8.56    | 0 | 0 | 0 | 0 | 0 | -15.3   | -15.3   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 20818.4 | 74.1 | 250  | 97.37 | 0 | -0.65 | 0 | 0 | 21.72   | 0 | 0 | 0 | 0 | 0 | -19.7   | -19.7   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 20818.4 | 74.1 | 500  | 97.37 | 0 | -1.62 | 0 | 0 | 40.14   | 0 | 0 | 0 | 0 | 0 | -35.1   | -35.1   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 20818.4 | 74.1 | 1000 | 97.37 | 0 | -1.62 | 0 | 0 | 76.15   | 0 | 0 | 0 | 0 | 0 | -73.6   | -73.6   |



|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 20818.4 | 74.1 | 2000 | 97.37 | 0 | -1.62 | 0 | 0 | 201.19  | 0 | 0 | 0 | 0 | 0 | 0 | -204.1  | -204.1  |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 20818.4 | 74.1 | 4000 | 97.37 | 0 | -1.62 | 0 | 0 | 682.22  | 0 | 0 | 0 | 0 | 0 | 0 | -692.1  | -692.1  |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 20818.4 | 74.1 | 8000 | 97.37 | 0 | -1.62 | 0 | 0 | 2433.3  | 0 | 0 | 0 | 0 | 0 | 0 | -2455.8 | -2455.8 |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21101.2 | 73.2 | 32   | 97.49 | 0 | -5.4  | 0 | 0 | 0.68    | 0 | 0 | 0 | 0 | 0 | 0 | -132.2  | -132.2  |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 21101.2 | 73.2 | 63   | 97.49 | 0 | -5.4  | 0 | 0 | 2.57    | 0 | 0 | 0 | 0 | 0 | 0 | -11.1   | -11.1   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 21101.2 | 73.2 | 125  | 97.49 | 0 | 1.06  | 0 | 0 | 8.67    | 0 | 0 | 0 | 0 | 0 | 0 | -15.5   | -15.5   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 21101.2 | 73.2 | 250  | 97.49 | 0 | -0.65 | 0 | 0 | 22.02   | 0 | 0 | 0 | 0 | 0 | 0 | -20.2   | -20.2   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 21101.2 | 73.2 | 500  | 97.49 | 0 | -1.62 | 0 | 0 | 40.68   | 0 | 0 | 0 | 0 | 0 | 0 | -35.8   | -35.8   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 21101.2 | 73.2 | 1000 | 97.49 | 0 | -1.62 | 0 | 0 | 77.18   | 0 | 0 | 0 | 0 | 0 | 0 | -74.8   | -74.8   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 21101.2 | 73.2 | 2000 | 97.49 | 0 | -1.62 | 0 | 0 | 203.92  | 0 | 0 | 0 | 0 | 0 | 0 | -207.0  | -207.0  |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 21101.2 | 73.2 | 4000 | 97.49 | 0 | -1.62 | 0 | 0 | 691.49  | 0 | 0 | 0 | 0 | 0 | 0 | -701.5  | -701.5  |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 21101.2 | 73.2 | 8000 | 97.49 | 0 | -1.62 | 0 | 0 | 2466.35 | 0 | 0 | 0 | 0 | 0 | 0 | -2488.9 | -2488.9 |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | -39.4 | -39.4 | 1 | 21173.7 | 74.5 | 32   | 97.52 | 0 | -5.41 | 0 | 0 | 0.68    | 0 | 0 | 0 | 0 | 0 | 0 | -132.2  | -132.2  |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 83.6  | 83.6  | 1 | 21173.7 | 74.5 | 63   | 97.52 | 0 | -5.41 | 0 | 0 | 2.58    | 0 | 0 | 0 | 0 | 0 | 0 | -11.1   | -11.1   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 91.7  | 91.7  | 1 | 21173.7 | 74.5 | 125  | 97.52 | 0 | 1.06  | 0 | 0 | 8.7     | 0 | 0 | 0 | 0 | 0 | 0 | -15.6   | -15.6   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 98.7  | 98.7  | 1 | 21173.7 | 74.5 | 250  | 97.52 | 0 | -0.65 | 0 | 0 | 22.09   | 0 | 0 | 0 | 0 | 0 | 0 | -20.3   | -20.3   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 100.8 | 100.8 | 1 | 21173.7 | 74.5 | 500  | 97.52 | 0 | -1.62 | 0 | 0 | 40.82   | 0 | 0 | 0 | 0 | 0 | 0 | -35.9   | -35.9   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 98.3  | 98.3  | 1 | 21173.7 | 74.5 | 1000 | 97.52 | 0 | -1.62 | 0 | 0 | 77.45   | 0 | 0 | 0 | 0 | 0 | 0 | -75.0   | -75.0   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 92.8  | 92.8  | 1 | 21173.7 | 74.5 | 2000 | 97.52 | 0 | -1.62 | 0 | 0 | 204.62  | 0 | 0 | 0 | 0 | 0 | 0 | -207.7  | -207.7  |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 85.9  | 85.9  | 1 | 21173.7 | 74.5 | 4000 | 97.52 | 0 | -1.62 | 0 | 0 | 693.86  | 0 | 0 | 0 | 0 | 0 | 0 | -703.9  | -703.9  |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 73.3  | 73.3  | 1 | 21173.7 | 74.5 | 8000 | 97.52 | 0 | -1.62 | 0 | 0 | 2474.82 | 0 | 0 | 0 | 0 | 0 | 0 | -2497.4 | -2497.4 |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21227.0 | 73.5 | 32   | 97.54 | 0 | -5.41 | 0 | 0 | 0.68    | 0 | 0 | 0 | 0 | 0 | 0 | -132.2  | -132.2  |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 21227.0 | 73.5 | 63   | 97.54 | 0 | -5.41 | 0 | 0 | 2.58    | 0 | 0 | 0 | 0 | 0 | 0 | -11.1   | -11.1   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 21227.0 | 73.5 | 125  | 97.54 | 0 | 1.06  | 0 | 0 | 8.72    | 0 | 0 | 0 | 0 | 0 | 0 | -15.6   | -15.6   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 21227.0 | 73.5 | 250  | 97.54 | 0 | -0.65 | 0 | 0 | 22.15   | 0 | 0 | 0 | 0 | 0 | 0 | -20.3   | -20.3   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 21227.0 | 73.5 | 500  | 97.54 | 0 | -1.62 | 0 | 0 | 40.92   | 0 | 0 | 0 | 0 | 0 | 0 | -36.0   | -36.0   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 21227.0 | 73.5 | 1000 | 97.54 | 0 | -1.62 | 0 | 0 | 77.64   | 0 | 0 | 0 | 0 | 0 | 0 | -75.3   | -75.3   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 21227.0 | 73.5 | 2000 | 97.54 | 0 | -1.62 | 0 | 0 | 205.14  | 0 | 0 | 0 | 0 | 0 | 0 | -208.3  | -208.3  |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 21227.0 | 73.5 | 4000 | 97.54 | 0 | -1.62 | 0 | 0 | 695.61  | 0 | 0 | 0 | 0 | 0 | 0 | -705.6  | -705.6  |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 21227.0 | 73.5 | 8000 | 97.54 | 0 | -1.62 | 0 | 0 | 2481.06 | 0 | 0 | 0 | 0 | 0 | 0 | -2503.7 | -2503.7 |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | -39.4 | -39.4 | 1 | 21535.0 | 76.3 | 32   | 97.66 | 0 | -5.42 | 0 | 0 | 0.69    | 0 | 0 | 0 | 0 | 0 | 0 | -132.3  | -132.3  |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 83.6  | 83.6  | 1 | 21535.0 | 76.3 | 63   | 97.66 | 0 | -5.42 | 0 | 0 | 2.62    | 0 | 0 | 0 | 0 | 0 | 0 | -11.3   | -11.3   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 91.7  | 91.7  | 1 | 21535.0 | 76.3 | 125  | 97.66 | 0 | 1.06  | 0 | 0 | 8.85    | 0 | 0 | 0 | 0 | 0 | 0 | -15.9   | -15.9   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 98.7  | 98.7  | 1 | 21535.0 | 76.3 | 250  | 97.66 | 0 | -0.65 | 0 | 0 | 22.47   | 0 | 0 | 0 | 0 | 0 | 0 | -20.8   | -20.8   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 100.8 | 100.8 | 1 | 21535.0 | 76.3 | 500  | 97.66 | 0 | -1.62 | 0 | 0 | 41.52   | 0 | 0 | 0 | 0 | 0 | 0 | -36.8   | -36.8   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 98.3  | 98.3  | 1 | 21535.0 | 76.3 | 1000 | 97.66 | 0 | -1.63 | 0 | 0 | 78.77   | 0 | 0 | 0 | 0 | 0 | 0 | -76.5   | -76.5   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 92.8  | 92.8  | 1 | 21535.0 | 76.3 | 2000 | 97.66 | 0 | -1.63 | 0 | 0 | 208.11  | 0 | 0 | 0 | 0 | 0 | 0 | -211.4  | -211.4  |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 85.9  | 85.9  | 1 | 21535.0 | 76.3 | 4000 | 97.66 | 0 | -1.63 | 0 | 0 | 705.7   | 0 | 0 | 0 | 0 | 0 | 0 | -715.8  | -715.8  |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 73.3  | 73.3  | 1 | 21535.0 | 76.3 | 8000 | 97.66 | 0 | -1.63 | 0 | 0 | 2517.05 | 0 | 0 | 0 | 0 | 0 | 0 | -2539.8 | -2539.8 |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21583.5 | 74.3 | 32   | 97.68 | 0 | -5.42 | 0 | 0 | 0.69    | 0 | 0 | 0 | 0 | 0 | 0 | -132.4  | -132.4  |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 21583.5 | 74.3 | 63   | 97.68 | 0 | -5.42 | 0 | 0 | 2.63    | 0 | 0 | 0 | 0 | 0 | 0 | -11.3   | -11.3   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 21583.5 | 74.3 | 125  | 97.68 | 0 | 1.06  | 0 | 0 | 8.87    | 0 | 0 | 0 | 0 | 0 | 0 | -15.9   | -15.9   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 21583.5 | 74.3 | 250  | 97.68 | 0 | -0.65 | 0 | 0 | 22.52   | 0 | 0 | 0 | 0 | 0 | 0 | -20.9   | -20.9   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 21583.5 | 74.3 | 500  | 97.68 | 0 | -1.62 | 0 | 0 | 41.61   | 0 | 0 | 0 | 0 | 0 | 0 | -36.9   | -36.9   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 21583.5 | 74.3 | 1000 | 97.68 | 0 | -1.63 | 0 | 0 | 78.95   | 0 | 0 | 0 | 0 | 0 | 0 | -76.7   | -76.7   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 21583.5 | 74.3 | 2000 | 97.68 | 0 | -1.63 | 0 | 0 | 208.58  | 0 | 0 | 0 | 0 | 0 | 0 | -211.8  | -211.8  |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 21583.5 | 74.3 | 4000 | 97.68 | 0 | -1.63 | 0 | 0 | 707.29  | 0 | 0 | 0 | 0 | 0 | 0 | -717.5  | -717.5  |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 21583.5 | 74.3 | 8000 | 97.68 | 0 | -1.63 | 0 | 0 | 2522.73 | 0 | 0 | 0 | 0 | 0 | 0 | -2545.5 | -2545.5 |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | -39.4 | -39.4 | 1 | 21667.6 | 75.7 | 32   | 97.72 | 0 | -5.42 | 0 | 0 | 0.69    | 0 | 0 | 0 | 0 | 0 | 0 | -132.4  | -132.4  |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 83.6  | 83.6  | 1 | 21667.6 | 75.7 | 63   | 97.72 | 0 | -5.42 | 0 | 0 | 2.64    | 0 | 0 | 0 | 0 | 0 | 0 | -11.3   | -11.3   |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 91.7  | 91.7  | 1 | 21667.6 | 75.7 | 125  | 97.72 | 0 | 1.06  | 0 | 0 | 8.9     | 0 | 0 | 0 | 0 | 0 | 0 | -16.0   | -16.0   |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 98.7  | 98.7  | 1 | 21667.6 | 75.7 | 250  | 97.72 | 0 | -0.65 | 0 | 0 | 22.61   | 0 | 0 | 0 | 0 | 0 | 0 | -21.0   | -21.0   |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 100.8 | 100.8 | 1 | 21667.6 | 75.7 | 500  | 97.72 | 0 | -1.63 | 0 | 0 | 41.77   | 0 | 0 | 0 | 0 | 0 | 0 | -37.1   | -37.1   |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 98.3  | 98.3  | 1 | 21667.6 | 75.7 | 1000 | 97.72 | 0 | -1.63 | 0 | 0 | 79.25   | 0 | 0 | 0 | 0 | 0 | 0 | -77.0   | -77.0   |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 92.8  | 92.8  | 1 | 21667.6 | 75.7 | 2000 | 97.72 | 0 | -1.63 | 0 | 0 | 209.39  | 0 | 0 | 0 | 0 | 0 | 0 | -212.7  | -212.7  |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 85.9  | 85.9  | 1 | 21667.6 | 75.7 | 4000 | 97.72 | 0 | -1.63 | 0 | 0 | 710.05  | 0 | 0 | 0 | 0 | 0 | 0 | -720.2  | -720.2  |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 73.3  | 73.3  | 1 | 21667.6 | 75.7 | 8000 | 97.72 | 0 | -1.63 | 0 | 0 | 2532.55 | 0 | 0 | 0 | 0 | 0 | 0 | -2555.3 | -2555.3 |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | -39.4 | -39.4 | 1 | 21717.8 | 73.7 | 32   | 97.74 | 0 | -5.42 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.4  | -132.4  |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 83.6  | 83.6  | 1 | 21717.8 | 73.7 | 63   | 97.74 | 0 | -5.42 | 0 | 0 | 2.64    | 0 | 0 | 0 | 0 | 0 | 0 | -11.4   | -11.4   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 91.7  | 91.7  | 1 | 21717.8 | 73.7 | 125  | 97.74 | 0 | 1.06  | 0 | 0 | 8.92    | 0 | 0 | 0 | 0 | 0 | 0 | -16.0   | -16.0   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 98.7  | 98.7  | 1 | 21717.8 | 73.7 | 250  | 97.74 | 0 | -0.65 | 0 | 0 | 22.66   | 0 | 0 | 0 | 0 | 0 | 0 | -21.0   | -21.0   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 100.8 | 100.8 | 1 | 21717.8 | 73.7 | 500  | 97.74 | 0 | -1.63 | 0 | 0 | 41.87   | 0 | 0 | 0 | 0 | 0 | 0 | -37.2   | -37.2   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 98.3  | 98.3  | 1 | 21717.8 | 73.7 | 1000 | 97.74 | 0 | -1.63 | 0 | 0 | 79.44   | 0 | 0 | 0 | 0 | 0 | 0 | -77.3   | -77.3   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 92.8  | 92.8  | 1 | 21717.8 | 73.7 | 2000 | 97.74 | 0 | -1.63 | 0 | 0 | 209.88  | 0 | 0 | 0 | 0 | 0 | 0 | -213.2  | -213.2  |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 85.9  | 85.9  | 1 | 21717.8 | 73.7 | 4000 | 97.74 | 0 | -1.63 | 0 | 0 | 711.69  | 0 | 0 | 0 | 0 | 0 | 0 | -721.9  | -721.9  |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 73.3  | 73.3  | 1 | 21717.8 | 73.7 | 8000 | 97.74 | 0 | -1.63 | 0 | 0 | 2538.42 | 0 | 0 | 0 | 0 | 0 | 0 | -2561.2 | -2561.2 |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21828.9 | 73.9 | 32   | 97.78 | 0 | -5.42 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.5  | -132.5  |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 21828.9 | 73.9 | 63   | 97.78 | 0 | -5.42 | 0 | 0 | 2.66    | 0 | 0 | 0 | 0 | 0 | 0 | -11.4   | -11.4   |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 21828.9 | 73.9 | 125  | 97.78 | 0 | 1.06  | 0 | 0 | 8.97    | 0 | 0 | 0 | 0 | 0 | 0 | -16.1   | -16.1   |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 21828.9 | 73.9 | 250  | 97.78 | 0 | -0.65 | 0 | 0 | 22.78   | 0 | 0 | 0 | 0 | 0 | 0 | -21.2   | -21.2   |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 21828.9 | 73.9 | 500  | 97.78 | 0 | -1.63 | 0 | 0 | 42.08   | 0 | 0 | 0 | 0 | 0 | 0 | -37.4   | -37.4   |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 21828.9 | 73.9 | 1000 | 97.78 | 0 | -1.63 | 0 | 0 | 79.84   | 0 | 0 | 0 | 0 | 0 | 0 | -77.7   | -77.7   |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 21828.9 | 73.9 | 2000 | 97.78 | 0 | -1.63 | 0 | 0 | 210.95  | 0 | 0 | 0 | 0 | 0 | 0 | -214.3  | -214.3  |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 21828.9 | 73.9 | 4000 | 97.78 | 0 | -1.63 | 0 | 0 | 715.34  | 0 | 0 | 0 | 0 | 0 | 0 | -725.6  | -725.6  |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 21828.9 | 73.9 | 8000 | 97.78 | 0 | -1.63 | 0 | 0 | 2551.41 | 0 | 0 | 0 | 0 | 0 | 0 | -2574.3 | -2574.3 |
| T28 | 622516.5  | 4769095.7  | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21922.8 | 73.7 | 32   | 97.82 | 0 | -5.43 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.5  | -132.5  |
| T28 | 622516.5  | 4769095.7  | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 21922.8 | 73.7 | 63   | 97.82 | 0 | -5.43 | 0 | 0 | 2.67    | 0 | 0 | 0 | 0 | 0 | 0 | -11.5   | -11.5   |
| T28 | 622516.5  | 4769095.7  | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 21922.8 | 73.7 | 125  | 97.82 | 0 | 1.05  | 0 | 0 | 9.01    | 0 | 0 | 0 | 0 | 0 | 0 | -16.2   | -16.2   |
| T28 | 622516.5  | 4769095.7  | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 21922.8 | 73.7 | 250  | 97.82 | 0 | -0.66 | 0 | 0 | 22.87   | 0 | 0 | 0 | 0 | 0 | 0 | -21.3   | -21.3   |
| T28 | 622516.5  | 4769095.7  | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 21922.8 | 73.7 | 500  | 97.82 | 0 | -1.63 | 0 | 0 | 42.26   | 0 | 0 | 0 | 0 | 0 | 0 | -37.7   | -37.7   |
| T28 | 622516.5  | 4769095.7  | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 21922.8 | 73.7 | 1000 | 97.82 | 0 | -1.63 | 0 | 0 | 80.19   | 0 | 0 | 0 | 0 | 0 | 0 | -78.1   | -78.1   |
| T28 | 622516.5  | 4769095.7  | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 21922.8 | 73.7 | 2000 | 97.82 | 0 | -1.63 | 0 | 0 | 211.86  | 0 | 0 | 0 | 0 | 0 | 0 | -215.3  | -215.3  |
| T28 | 622516.5  | 4769095.7  | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 21922.8 | 73.7 | 4000 | 97.82 | 0 | -1.63 | 0 | 0 | 718.41  | 0 | 0 | 0 | 0 | 0 | 0 | -728.7  | -728.7  |
| T28 | 622516.5  | 4769095.7  | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 21922.8 | 73.7 | 8000 | 97.82 | 0 | -1.63 | 0 | 0 | 2562.38 | 0 | 0 | 0 | 0 | 0 | 0 | -2585.3 | -2585.3 |
| T94 | 618752.11 | 4768764.2  | 325    | 190    | 0 | -39.4 | -39.4 | 1 | 21965.4 | 75.8 | 32   | 97.83 | 0 | -5.43 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.5  | -132.5  |
| T94 | 618752.11 | 4768764.2  | 325    | 190    | 0 | 83.6  | 83.6  | 1 | 21965.4 | 75.8 | 63   | 97.83 | 0 | -5.43 | 0 | 0 | 2.67    | 0 | 0 | 0 | 0 | 0 | 0 | -11.5   | -11.5   |
| T94 | 618752.11 | 4768764.2  | 325    | 190    | 0 | 91.7  | 91.7  | 1 | 21965.4 | 75.8 | 125  | 97.83 | 0 | 1.05  | 0 | 0 | 9.03    | 0 | 0 | 0 | 0 | 0 | 0 | -16.2   | -16.2   |
| T94 | 618752.11 | 4768764.2  | 325    | 190    | 0 | 98.7  | 98.7  | 1 | 21965.4 | 75.8 | 250  | 97.83 | 0 | -0.66 | 0 | 0 | 22.92   | 0 | 0 | 0 | 0 | 0 | 0 | -21.4   | -21.4   |
| T94 | 618752.11 | 4768764.2  | 325    | 190    | 0 | 100.8 | 100.8 | 1 | 21965.4 | 75.8 | 500  | 97.83 | 0 | -1.63 | 0 | 0 | 42.35   | 0 | 0 | 0 | 0 | 0 | 0 | -37.8   | -37.8   |
| T94 | 618752.11 | 4768764.2  | 325    | 190    | 0 | 98.3  | 98.3  | 1 | 21965.4 | 75.8 | 1000 | 97.83 | 0 | -1.63 | 0 | 0 | 80.34   | 0 | 0 | 0 | 0 | 0 | 0 | -78.3   | -78.3   |
| T94 | 618752.11 | 4768764.2  | 325    | 190    | 0 | 92.8  | 92.8  | 1 | 21965.4 | 75.8 | 2000 | 97.83 | 0 | -1.63 | 0 | 0 | 212.27  | 0 | 0 | 0 | 0 | 0 | 0 | -215.7  | -215.7  |
| T94 | 618752.11 | 4768764.2  | 325    | 190    | 0 | 85.9  | 85.9  | 1 | 21965.4 | 75.8 | 4000 | 97.83 | 0 | -1.63 | 0 | 0 | 719.81  | 0 | 0 | 0 | 0 | 0 | 0 | -730.1  | -730.1  |
| T94 | 618752.11 | 4768764.2  | 325    | 190    | 0 | 73.3  | 73.3  | 1 | 21965.4 | 75.8 | 8000 | 97.83 | 0 | -1.63 | 0 | 0 | 2567.36 | 0 | 0 | 0 | 0 | 0 | 0 | -2590.3 | -2590.3 |
| T56 | 626599    | 4768825    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21981.5 | 73.4 | 32   | 97.84 | 0 | -5.43 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.5  | -132.5  |

|     |           |            |       |       |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|-------|-------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T56 | 626599    | 4768825    | 320   | 185   | 0 | 83.6  | 83.6  | 1 | 21981.5 | 73.4 | 63   | 97.84 | 0 | -5.43 | 0 | 0 | 2.68    | 0 | 0 | 0 | 0 | 0 | 0 | -11.5   | -11.5   |
| T56 | 626599    | 4768825    | 320   | 185   | 0 | 91.7  | 91.7  | 1 | 21981.5 | 73.4 | 125  | 97.84 | 0 | 1.05  | 0 | 0 | 9.03    | 0 | 0 | 0 | 0 | 0 | 0 | -16.2   | -16.2   |
| T56 | 626599    | 4768825    | 320   | 185   | 0 | 98.7  | 98.7  | 1 | 21981.5 | 73.4 | 250  | 97.84 | 0 | -0.66 | 0 | 0 | 22.93   | 0 | 0 | 0 | 0 | 0 | 0 | -21.4   | -21.4   |
| T56 | 626599    | 4768825    | 320   | 185   | 0 | 100.8 | 100.8 | 1 | 21981.5 | 73.4 | 500  | 97.84 | 0 | -1.63 | 0 | 0 | 42.38   | 0 | 0 | 0 | 0 | 0 | 0 | -37.8   | -37.8   |
| T56 | 626599    | 4768825    | 320   | 185   | 0 | 98.3  | 98.3  | 1 | 21981.5 | 73.4 | 1000 | 97.84 | 0 | -1.63 | 0 | 0 | 80.4    | 0 | 0 | 0 | 0 | 0 | 0 | -78.3   | -78.3   |
| T56 | 626599    | 4768825    | 320   | 185   | 0 | 92.8  | 92.8  | 1 | 21981.5 | 73.4 | 2000 | 97.84 | 0 | -1.63 | 0 | 0 | 212.43  | 0 | 0 | 0 | 0 | 0 | 0 | -215.8  | -215.8  |
| T56 | 626599    | 4768825    | 320   | 185   | 0 | 85.9  | 85.9  | 1 | 21981.5 | 73.4 | 4000 | 97.84 | 0 | -1.63 | 0 | 0 | 720.34  | 0 | 0 | 0 | 0 | 0 | 0 | -730.7  | -730.7  |
| T56 | 626599    | 4768825    | 320   | 185   | 0 | 73.3  | 73.3  | 1 | 21981.5 | 73.4 | 8000 | 97.84 | 0 | -1.63 | 0 | 0 | 2569.24 | 0 | 0 | 0 | 0 | 0 | 0 | -2592.2 | -2592.2 |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | -39.4 | -39.4 | 1 | 22236.7 | 75.3 | 32   | 97.94 | 0 | -5.44 | 0 | 0 | 0.71    | 0 | 0 | 0 | 0 | 0 | 0 | -132.6  | -132.6  |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 83.6  | 83.6  | 1 | 22236.7 | 75.3 | 63   | 97.94 | 0 | -5.44 | 0 | 0 | 2.71    | 0 | 0 | 0 | 0 | 0 | 0 | -11.6   | -11.6   |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 91.7  | 91.7  | 1 | 22236.7 | 75.3 | 125  | 97.94 | 0 | 1.05  | 0 | 0 | 9.14    | 0 | 0 | 0 | 0 | 0 | 0 | -16.4   | -16.4   |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 98.7  | 98.7  | 1 | 22236.7 | 75.3 | 250  | 97.94 | 0 | -0.66 | 0 | 0 | 23.2    | 0 | 0 | 0 | 0 | 0 | 0 | -21.8   | -21.8   |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 100.8 | 100.8 | 1 | 22236.7 | 75.3 | 500  | 97.94 | 0 | -1.63 | 0 | 0 | 42.87   | 0 | 0 | 0 | 0 | 0 | 0 | -38.4   | -38.4   |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 98.3  | 98.3  | 1 | 22236.7 | 75.3 | 1000 | 97.94 | 0 | -1.63 | 0 | 0 | 81.34   | 0 | 0 | 0 | 0 | 0 | 0 | -79.4   | -79.4   |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 92.8  | 92.8  | 1 | 22236.7 | 75.3 | 2000 | 97.94 | 0 | -1.63 | 0 | 0 | 214.89  | 0 | 0 | 0 | 0 | 0 | 0 | -218.4  | -218.4  |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 85.9  | 85.9  | 1 | 22236.7 | 75.3 | 4000 | 97.94 | 0 | -1.63 | 0 | 0 | 728.7   | 0 | 0 | 0 | 0 | 0 | 0 | -739.1  | -739.1  |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 73.3  | 73.3  | 1 | 22236.7 | 75.3 | 8000 | 97.94 | 0 | -1.63 | 0 | 0 | 2599.07 | 0 | 0 | 0 | 0 | 0 | 0 | -2622.1 | -2622.1 |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | -39.4 | -39.4 | 1 | 24552.5 | 74.8 | 32   | 98.8  | 0 | -5.49 | 0 | 0 | 0.79    | 0 | 0 | 0 | 0 | 0 | 0 | -133.5  | -133.5  |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 83.6  | 83.6  | 1 | 24552.5 | 74.8 | 63   | 98.8  | 0 | -5.49 | 0 | 0 | 2.99    | 0 | 0 | 0 | 0 | 0 | 0 | -12.7   | -12.7   |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 91.7  | 91.7  | 1 | 24552.5 | 74.8 | 125  | 98.8  | 0 | 1.04  | 0 | 0 | 10.09   | 0 | 0 | 0 | 0 | 0 | 0 | -18.2   | -18.2   |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 98.7  | 98.7  | 1 | 24552.5 | 74.8 | 250  | 98.8  | 0 | -0.67 | 0 | 0 | 25.62   | 0 | 0 | 0 | 0 | 0 | 0 | -25.1   | -25.1   |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 100.8 | 100.8 | 1 | 24552.5 | 74.8 | 500  | 98.8  | 0 | -1.65 | 0 | 0 | 47.33   | 0 | 0 | 0 | 0 | 0 | 0 | -43.7   | -43.7   |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 98.3  | 98.3  | 1 | 24552.5 | 74.8 | 1000 | 98.8  | 0 | -1.65 | 0 | 0 | 89.81   | 0 | 0 | 0 | 0 | 0 | 0 | -88.7   | -88.7   |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 92.8  | 92.8  | 1 | 24552.5 | 74.8 | 2000 | 98.8  | 0 | -1.65 | 0 | 0 | 237.27  | 0 | 0 | 0 | 0 | 0 | 0 | -241.6  | -241.6  |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 85.9  | 85.9  | 1 | 24552.5 | 74.8 | 4000 | 98.8  | 0 | -1.65 | 0 | 0 | 804.59  | 0 | 0 | 0 | 0 | 0 | 0 | -815.8  | -815.8  |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 73.3  | 73.3  | 1 | 24552.5 | 74.8 | 8000 | 98.8  | 0 | -1.65 | 0 | 0 | 2869.74 | 0 | 0 | 0 | 0 | 0 | 0 | -2893.6 | -2893.6 |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | -39.4 | -39.4 | 1 | 20959.5 | 74.2 | 32   | 97.43 | 0 | -5.4  | 0 | 0 | 0.67    | 0 | 0 | 0 | 0 | 0 | 0 | -132.1  | -132.1  |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 86.6  | 86.6  | 1 | 20959.5 | 74.2 | 63   | 97.43 | 0 | -5.4  | 0 | 0 | 2.55    | 0 | 0 | 0 | 0 | 0 | 0 | -8.0    | -8.0    |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 94.7  | 94.7  | 1 | 20959.5 | 74.2 | 125  | 97.43 | 0 | 1.06  | 0 | 0 | 8.61    | 0 | 0 | 0 | 0 | 0 | 0 | -12.4   | -12.4   |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 94.4  | 94.4  | 1 | 20959.5 | 74.2 | 250  | 97.43 | 0 | -0.65 | 0 | 0 | 21.87   | 0 | 0 | 0 | 0 | 0 | 0 | -24.3   | -24.3   |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 97.3  | 97.3  | 1 | 20959.5 | 74.2 | 500  | 97.43 | 0 | -1.62 | 0 | 0 | 40.41   | 0 | 0 | 0 | 0 | 0 | 0 | -38.9   | -38.9   |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 98.7  | 98.7  | 1 | 20959.5 | 74.2 | 1000 | 97.43 | 0 | -1.62 | 0 | 0 | 76.66   | 0 | 0 | 0 | 0 | 0 | 0 | -73.8   | -73.8   |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 93.8  | 93.8  | 1 | 20959.5 | 74.2 | 2000 | 97.43 | 0 | -1.62 | 0 | 0 | 202.55  | 0 | 0 | 0 | 0 | 0 | 0 | -204.6  | -204.6  |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 81.5  | 81.5  | 1 | 20959.5 | 74.2 | 4000 | 97.43 | 0 | -1.62 | 0 | 0 | 686.84  | 0 | 0 | 0 | 0 | 0 | 0 | -701.2  | -701.2  |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 73.4  | 73.4  | 1 | 20959.5 | 74.2 | 8000 | 97.43 | 0 | -1.62 | 0 | 0 | 2449.78 | 0 | 0 | 0 | 0 | 0 | 0 | -2472.2 | -2472.2 |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | -39.4 | -39.4 | 1 | 24884.0 | 72.6 | 32   | 98.92 | 0 | -5.5  | 0 | 0 | 0.8     | 0 | 0 | 0 | 0 | 0 | 0 | -133.6  | -133.6  |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 83.6  | 83.6  | 1 | 24884.0 | 72.6 | 63   | 98.92 | 0 | -5.5  | 0 | 0 | 3.03    | 0 | 0 | 0 | 0 | 0 | 0 | -12.9   | -12.9   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 91.7  | 91.7  | 1 | 24884.0 | 72.6 | 125  | 98.92 | 0 | 1.03  | 0 | 0 | 10.23   | 0 | 0 | 0 | 0 | 0 | 0 | -18.5   | -18.5   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 98.7  | 98.7  | 1 | 24884.0 | 72.6 | 250  | 98.92 | 0 | -0.68 | 0 | 0 | 25.96   | 0 | 0 | 0 | 0 | 0 | 0 | -25.5   | -25.5   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 100.8 | 100.8 | 1 | 24884.0 | 72.6 | 500  | 98.92 | 0 | -1.65 | 0 | 0 | 47.97   | 0 | 0 | 0 | 0 | 0 | 0 | -44.4   | -44.4   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 98.3  | 98.3  | 1 | 24884.0 | 72.6 | 1000 | 98.92 | 0 | -1.65 | 0 | 0 | 91.02   | 0 | 0 | 0 | 0 | 0 | 0 | -90.0   | -90.0   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 92.8  | 92.8  | 1 | 24884.0 | 72.6 | 2000 | 98.92 | 0 | -1.65 | 0 | 0 | 240.48  | 0 | 0 | 0 | 0 | 0 | 0 | -245.0  | -245.0  |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 85.9  | 85.9  | 1 | 24884.0 | 72.6 | 4000 | 98.92 | 0 | -1.65 | 0 | 0 | 815.45  | 0 | 0 | 0 | 0 | 0 | 0 | -826.8  | -826.8  |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 73.3  | 73.3  | 1 | 24884.0 | 72.6 | 8000 | 98.92 | 0 | -1.65 | 0 | 0 | 2908.49 | 0 | 0 | 0 | 0 | 0 | 0 | -2932.5 | -2932.5 |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | -39.4 | -39.4 | 1 | 25611.5 | 71.0 | 32   | 99.17 | 0 | -5.51 | 0 | 0 | 0.82    | 0 | 0 | 0 | 0 | 0 | 0 | -133.9  | -133.9  |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 83.6  | 83.6  | 1 | 25611.5 | 71.0 | 63   | 99.17 | 0 | -5.51 | 0 | 0 | 3.12    | 0 | 0 | 0 | 0 | 0 | 0 | -13.2   | -13.2   |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 91.7  | 91.7  | 1 | 25611.5 | 71.0 | 125  | 99.17 | 0 | 1.03  | 0 | 0 | 10.52   | 0 | 0 | 0 | 0 | 0 | 0 | -19.0   | -19.0   |



|      |           |            |        |        |   |       |       |   |        |      |      |       |   |      |   |   |        |   |   |   |   |   |   |        |        |
|------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|------|---|---|--------|---|---|---|---|---|---|--------|--------|
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 82.7  | 82.7  | 1 | 851.8  | 42.1 | 250  | 69.61 | 0 | 0.07 | 0 | 0 | 0.89   | 0 | 0 | 0 | 0 | 0 | 0 | 12.1   | 12.1   |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 90.4  | 90.4  | 1 | 851.8  | 42.1 | 500  | 69.61 | 0 | -0.9 | 0 | 0 | 1.64   | 0 | 0 | 0 | 0 | 0 | 0 | 20.1   | 20.1   |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 96.8  | 96.8  | 1 | 851.8  | 42.1 | 1000 | 69.61 | 0 | -0.9 | 0 | 0 | 3.12   | 0 | 0 | 0 | 0 | 0 | 0 | 25.0   | 25.0   |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 97.2  | 97.2  | 1 | 851.8  | 42.1 | 2000 | 69.61 | 0 | -0.9 | 0 | 0 | 8.23   | 0 | 0 | 0 | 0 | 0 | 0 | 20.3   | 20.3   |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 96.0  | 96.0  | 1 | 851.8  | 42.1 | 4000 | 69.61 | 0 | -0.9 | 0 | 0 | 27.91  | 0 | 0 | 0 | 0 | 0 | 0 | -0.6   | -0.6   |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 89.2  | 89.2  | 1 | 851.8  | 42.1 | 8000 | 69.61 | 0 | -0.9 | 0 | 0 | 99.56  | 0 | 0 | 0 | 0 | 0 | 0 | -79.1  | -79.1  |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | -39.4 | -39.4 | 1 | 1387.0 | 69.2 | 32   | 73.84 | 0 | -3   | 0 | 0 | 0.04   | 0 | 0 | 0 | 0 | 0 | 0 | -110.3 | -110.3 |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 83.6  | 83.6  | 1 | 1387.0 | 69.2 | 63   | 73.84 | 0 | -3   | 0 | 0 | 0.17   | 0 | 0 | 0 | 0 | 0 | 0 | 12.6   | 12.6   |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 91.7  | 91.7  | 1 | 1387.0 | 69.2 | 125  | 73.84 | 0 | 1.78 | 0 | 0 | 0.57   | 0 | 0 | 0 | 0 | 0 | 0 | 15.5   | 15.5   |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 98.7  | 98.7  | 1 | 1387.0 | 69.2 | 250  | 73.84 | 0 | 0.07 | 0 | 0 | 1.45   | 0 | 0 | 0 | 0 | 0 | 0 | 23.3   | 23.3   |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 100.8 | 100.8 | 1 | 1387.0 | 69.2 | 500  | 73.84 | 0 | -0.9 | 0 | 0 | 2.67   | 0 | 0 | 0 | 0 | 0 | 0 | 25.2   | 25.2   |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 98.3  | 98.3  | 1 | 1387.0 | 69.2 | 1000 | 73.84 | 0 | -0.9 | 0 | 0 | 5.07   | 0 | 0 | 0 | 0 | 0 | 0 | 20.3   | 20.3   |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 92.8  | 92.8  | 1 | 1387.0 | 69.2 | 2000 | 73.84 | 0 | -0.9 | 0 | 0 | 13.4   | 0 | 0 | 0 | 0 | 0 | 0 | 6.5    | 6.5    |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 85.9  | 85.9  | 1 | 1387.0 | 69.2 | 4000 | 73.84 | 0 | -0.9 | 0 | 0 | 45.45  | 0 | 0 | 0 | 0 | 0 | 0 | -32.5  | -32.5  |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 73.3  | 73.3  | 1 | 1387.0 | 69.2 | 8000 | 73.84 | 0 | -0.9 | 0 | 0 | 162.12 | 0 | 0 | 0 | 0 | 0 | 0 | -161.8 | -161.8 |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | -39.4 | -39.4 | 1 | 1578.8 | 69.0 | 32   | 74.97 | 0 | -3   | 0 | 0 | 0.05   | 0 | 0 | 0 | 0 | 0 | 0 | -111.4 | -111.4 |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 83.6  | 83.6  | 1 | 1578.8 | 69.0 | 63   | 74.97 | 0 | -3   | 0 | 0 | 0.19   | 0 | 0 | 0 | 0 | 0 | 0 | 11.4   | 11.4   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 91.7  | 91.7  | 1 | 1578.8 | 69.0 | 125  | 74.97 | 0 | 1.78 | 0 | 0 | 0.65   | 0 | 0 | 0 | 0 | 0 | 0 | 14.3   | 14.3   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 98.7  | 98.7  | 1 | 1578.8 | 69.0 | 250  | 74.97 | 0 | 0.07 | 0 | 0 | 1.65   | 0 | 0 | 0 | 0 | 0 | 0 | 22.0   | 22.0   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 100.8 | 100.8 | 1 | 1578.8 | 69.0 | 500  | 74.97 | 0 | -0.9 | 0 | 0 | 3.04   | 0 | 0 | 0 | 0 | 0 | 0 | 23.7   | 23.7   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 98.3  | 98.3  | 1 | 1578.8 | 69.0 | 1000 | 74.97 | 0 | -0.9 | 0 | 0 | 5.77   | 0 | 0 | 0 | 0 | 0 | 0 | 18.5   | 18.5   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 92.8  | 92.8  | 1 | 1578.8 | 69.0 | 2000 | 74.97 | 0 | -0.9 | 0 | 0 | 15.26  | 0 | 0 | 0 | 0 | 0 | 0 | 3.5    | 3.5    |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 85.9  | 85.9  | 1 | 1578.8 | 69.0 | 4000 | 74.97 | 0 | -0.9 | 0 | 0 | 51.74  | 0 | 0 | 0 | 0 | 0 | 0 | -39.9  | -39.9  |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 73.3  | 73.3  | 1 | 1578.8 | 69.0 | 8000 | 74.97 | 0 | -0.9 | 0 | 0 | 184.54 | 0 | 0 | 0 | 0 | 0 | 0 | -185.3 | -185.3 |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | -39.4 | -39.4 | 1 | 1685.7 | 69.1 | 32   | 75.54 | 0 | -3   | 0 | 0 | 0.05   | 0 | 0 | 0 | 0 | 0 | 0 | -112.0 | -112.0 |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 83.6  | 83.6  | 1 | 1685.7 | 69.1 | 63   | 75.54 | 0 | -3   | 0 | 0 | 0.21   | 0 | 0 | 0 | 0 | 0 | 0 | 10.9   | 10.9   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 91.7  | 91.7  | 1 | 1685.7 | 69.1 | 125  | 75.54 | 0 | 1.78 | 0 | 0 | 0.69   | 0 | 0 | 0 | 0 | 0 | 0 | 13.7   | 13.7   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 98.7  | 98.7  | 1 | 1685.7 | 69.1 | 250  | 75.54 | 0 | 0.07 | 0 | 0 | 1.76   | 0 | 0 | 0 | 0 | 0 | 0 | 21.3   | 21.3   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 100.8 | 100.8 | 1 | 1685.7 | 69.1 | 500  | 75.54 | 0 | -0.9 | 0 | 0 | 3.25   | 0 | 0 | 0 | 0 | 0 | 0 | 22.9   | 22.9   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 98.3  | 98.3  | 1 | 1685.7 | 69.1 | 1000 | 75.54 | 0 | -0.9 | 0 | 0 | 6.17   | 0 | 0 | 0 | 0 | 0 | 0 | 17.5   | 17.5   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 92.8  | 92.8  | 1 | 1685.7 | 69.1 | 2000 | 75.54 | 0 | -0.9 | 0 | 0 | 16.29  | 0 | 0 | 0 | 0 | 0 | 0 | 1.9    | 1.9    |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 85.9  | 85.9  | 1 | 1685.7 | 69.1 | 4000 | 75.54 | 0 | -0.9 | 0 | 0 | 55.24  | 0 | 0 | 0 | 0 | 0 | 0 | -44.0  | -44.0  |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 73.3  | 73.3  | 1 | 1685.7 | 69.1 | 8000 | 75.54 | 0 | -0.9 | 0 | 0 | 197.02 | 0 | 0 | 0 | 0 | 0 | 0 | -198.4 | -198.4 |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | -39.4 | -39.4 | 1 | 1544.8 | 43.0 | 32   | 74.78 | 0 | -3   | 0 | 0 | 0.05   | 0 | 0 | 0 | 0 | 0 | 0 | -111.2 | -111.2 |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 57.5  | 57.5  | 1 | 1544.8 | 43.0 | 63   | 74.78 | 0 | -3   | 0 | 0 | 0.19   | 0 | 0 | 0 | 0 | 0 | 0 | -14.5  | -14.5  |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 72.4  | 72.4  | 1 | 1544.8 | 43.0 | 125  | 74.78 | 0 | 1.78 | 0 | 0 | 0.63   | 0 | 0 | 0 | 0 | 0 | 0 | -4.8   | -4.8   |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 82.7  | 82.7  | 1 | 1544.8 | 43.0 | 250  | 74.78 | 0 | 0.07 | 0 | 0 | 1.61   | 0 | 0 | 0 | 0 | 0 | 0 | 6.2    | 6.2    |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 90.4  | 90.4  | 1 | 1544.8 | 43.0 | 500  | 74.78 | 0 | -0.9 | 0 | 0 | 2.98   | 0 | 0 | 0 | 0 | 0 | 0 | 13.5   | 13.5   |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 96.8  | 96.8  | 1 | 1544.8 | 43.0 | 1000 | 74.78 | 0 | -0.9 | 0 | 0 | 5.65   | 0 | 0 | 0 | 0 | 0 | 0 | 17.3   | 17.3   |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 97.2  | 97.2  | 1 | 1544.8 | 43.0 | 2000 | 74.78 | 0 | -0.9 | 0 | 0 | 14.93  | 0 | 0 | 0 | 0 | 0 | 0 | 8.4    | 8.4    |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 96.0  | 96.0  | 1 | 1544.8 | 43.0 | 4000 | 74.78 | 0 | -0.9 | 0 | 0 | 50.62  | 0 | 0 | 0 | 0 | 0 | 0 | -28.5  | -28.5  |
| MH06 | 622661    | 4745529    | 263.87 | 183.87 | 0 | 89.2  | 89.2  | 1 | 1544.8 | 43.0 | 8000 | 74.78 | 0 | -0.9 | 0 | 0 | 180.56 | 0 | 0 | 0 | 0 | 0 | 0 | -165.2 | -165.2 |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | -39.4 | -39.4 | 1 | 2254.8 | 69.4 | 32   | 78.06 | 0 | -3   | 0 | 0 | 0.07   | 0 | 0 | 0 | 0 | 0 | 0 | -114.5 | -114.5 |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 83.6  | 83.6  | 1 | 2254.8 | 69.4 | 63   | 78.06 | 0 | -3   | 0 | 0 | 0.27   | 0 | 0 | 0 | 0 | 0 | 0 | 8.3    | 8.3    |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 91.7  | 91.7  | 1 | 2254.8 | 69.4 | 125  | 78.06 | 0 | 1.78 | 0 | 0 | 0.93   | 0 | 0 | 0 | 0 | 0 | 0 | 10.9   | 10.9   |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 98.7  | 98.7  | 1 | 2254.8 | 69.4 | 250  | 78.06 | 0 | 0.07 | 0 | 0 | 2.35   | 0 | 0 | 0 | 0 | 0 | 0 | 18.2   | 18.2   |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 100.8 | 100.8 | 1 | 2254.8 | 69.4 | 500  | 78.06 | 0 | -0.9 | 0 | 0 | 4.35   | 0 | 0 | 0 | 0 | 0 | 0 | 19.3   | 19.3   |

|      |          |           |        |        |   |       |       |   |        |      |      |       |   |      |   |   |        |   |   |   |   |   |   |        |        |
|------|----------|-----------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|------|---|---|--------|---|---|---|---|---|---|--------|--------|
| T44  | 624350   | 4748471   | 312.84 | 177.84 | 0 | 98.3  | 98.3  | 1 | 2254.8 | 69.4 | 1000 | 78.06 | 0 | -0.9 | 0 | 0 | 8.25   | 0 | 0 | 0 | 0 | 0 | 0 | 12.9   | 12.9   |
| T44  | 624350   | 4748471   | 312.84 | 177.84 | 0 | 92.8  | 92.8  | 1 | 2254.8 | 69.4 | 2000 | 78.06 | 0 | -0.9 | 0 | 0 | 21.79  | 0 | 0 | 0 | 0 | 0 | 0 | -6.2   | -6.2   |
| T44  | 624350   | 4748471   | 312.84 | 177.84 | 0 | 85.9  | 85.9  | 1 | 2254.8 | 69.4 | 4000 | 78.06 | 0 | -0.9 | 0 | 0 | 73.89  | 0 | 0 | 0 | 0 | 0 | 0 | -65.2  | -65.2  |
| T44  | 624350   | 4748471   | 312.84 | 177.84 | 0 | 73.3  | 73.3  | 1 | 2254.8 | 69.4 | 8000 | 78.06 | 0 | -0.9 | 0 | 0 | 263.54 | 0 | 0 | 0 | 0 | 0 | 0 | -267.4 | -267.4 |
| T46  | 622737   | 4748967.6 | 313    | 178    | 0 | -39.4 | -39.4 | 1 | 1907.8 | 69.1 | 32   | 76.61 | 0 | -3   | 0 | 0 | 0.06   | 0 | 0 | 0 | 0 | 0 | 0 | -113.1 | -113.1 |
| T46  | 622737   | 4748967.6 | 313    | 178    | 0 | 86.6  | 86.6  | 1 | 1907.8 | 69.1 | 63   | 76.61 | 0 | -3   | 0 | 0 | 0.23   | 0 | 0 | 0 | 0 | 0 | 0 | 12.8   | 12.8   |
| T46  | 622737   | 4748967.6 | 313    | 178    | 0 | 94.7  | 94.7  | 1 | 1907.8 | 69.1 | 125  | 76.61 | 0 | 1.78 | 0 | 0 | 0.78   | 0 | 0 | 0 | 0 | 0 | 0 | 15.5   | 15.5   |
| T46  | 622737   | 4748967.6 | 313    | 178    | 0 | 94.4  | 94.4  | 1 | 1907.8 | 69.1 | 250  | 76.61 | 0 | 0.07 | 0 | 0 | 1.99   | 0 | 0 | 0 | 0 | 0 | 0 | 15.7   | 15.7   |
| T46  | 622737   | 4748967.6 | 313    | 178    | 0 | 97.3  | 97.3  | 1 | 1907.8 | 69.1 | 500  | 76.61 | 0 | -0.9 | 0 | 0 | 3.68   | 0 | 0 | 0 | 0 | 0 | 0 | 17.9   | 17.9   |
| T46  | 622737   | 4748967.6 | 313    | 178    | 0 | 98.7  | 98.7  | 1 | 1907.8 | 69.1 | 1000 | 76.61 | 0 | -0.9 | 0 | 0 | 6.98   | 0 | 0 | 0 | 0 | 0 | 0 | 16.0   | 16.0   |
| T46  | 622737   | 4748967.6 | 313    | 178    | 0 | 93.8  | 93.8  | 1 | 1907.8 | 69.1 | 2000 | 76.61 | 0 | -0.9 | 0 | 0 | 18.44  | 0 | 0 | 0 | 0 | 0 | 0 | -0.4   | -0.4   |
| T46  | 622737   | 4748967.6 | 313    | 178    | 0 | 81.5  | 81.5  | 1 | 1907.8 | 69.1 | 4000 | 76.61 | 0 | -0.9 | 0 | 0 | 62.52  | 0 | 0 | 0 | 0 | 0 | 0 | -56.7  | -56.7  |
| T46  | 622737   | 4748967.6 | 313    | 178    | 0 | 73.4  | 73.4  | 1 | 1907.8 | 69.1 | 8000 | 76.61 | 0 | -0.9 | 0 | 0 | 222.98 | 0 | 0 | 0 | 0 | 0 | 0 | -225.3 | -225.3 |
| T14  | 624137   | 4748807   | 312.05 | 177.05 | 0 | -39.4 | -39.4 | 1 | 2330.9 | 69.2 | 32   | 78.35 | 0 | -3   | 0 | 0 | 0.07   | 0 | 0 | 0 | 0 | 0 | 0 | -114.8 | -114.8 |
| T14  | 624137   | 4748807   | 312.05 | 177.05 | 0 | 83.6  | 83.6  | 1 | 2330.9 | 69.2 | 63   | 78.35 | 0 | -3   | 0 | 0 | 0.28   | 0 | 0 | 0 | 0 | 0 | 0 | 8.0    | 8.0    |
| T14  | 624137   | 4748807   | 312.05 | 177.05 | 0 | 91.7  | 91.7  | 1 | 2330.9 | 69.2 | 125  | 78.35 | 0 | 1.78 | 0 | 0 | 0.96   | 0 | 0 | 0 | 0 | 0 | 0 | 10.6   | 10.6   |
| T14  | 624137   | 4748807   | 312.05 | 177.05 | 0 | 98.7  | 98.7  | 1 | 2330.9 | 69.2 | 250  | 78.35 | 0 | 0.07 | 0 | 0 | 2.43   | 0 | 0 | 0 | 0 | 0 | 0 | 17.8   | 17.8   |
| T14  | 624137   | 4748807   | 312.05 | 177.05 | 0 | 100.8 | 100.8 | 1 | 2330.9 | 69.2 | 500  | 78.35 | 0 | -0.9 | 0 | 0 | 4.49   | 0 | 0 | 0 | 0 | 0 | 0 | 18.9   | 18.9   |
| T14  | 624137   | 4748807   | 312.05 | 177.05 | 0 | 98.3  | 98.3  | 1 | 2330.9 | 69.2 | 1000 | 78.35 | 0 | -0.9 | 0 | 0 | 8.53   | 0 | 0 | 0 | 0 | 0 | 0 | 12.3   | 12.3   |
| T14  | 624137   | 4748807   | 312.05 | 177.05 | 0 | 92.8  | 92.8  | 1 | 2330.9 | 69.2 | 2000 | 78.35 | 0 | -0.9 | 0 | 0 | 22.53  | 0 | 0 | 0 | 0 | 0 | 0 | -7.2   | -7.2   |
| T14  | 624137   | 4748807   | 312.05 | 177.05 | 0 | 85.9  | 85.9  | 1 | 2330.9 | 69.2 | 4000 | 78.35 | 0 | -0.9 | 0 | 0 | 76.38  | 0 | 0 | 0 | 0 | 0 | 0 | -67.9  | -67.9  |
| T14  | 624137   | 4748807   | 312.05 | 177.05 | 0 | 73.3  | 73.3  | 1 | 2330.9 | 69.2 | 8000 | 78.35 | 0 | -0.9 | 0 | 0 | 272.43 | 0 | 0 | 0 | 0 | 0 | 0 | -276.6 | -276.6 |
| MH01 | 623355   | 4745400   | 268.15 | 188.15 | 0 | -39.4 | -39.4 | 1 | 1839.6 | 44.6 | 32   | 76.29 | 0 | -3   | 0 | 0 | 0.06   | 0 | 0 | 0 | 0 | 0 | 0 | -112.8 | -112.8 |
| MH01 | 623355   | 4745400   | 268.15 | 188.15 | 0 | 57.5  | 57.5  | 1 | 1839.6 | 44.6 | 63   | 76.29 | 0 | -3   | 0 | 0 | 0.22   | 0 | 0 | 0 | 0 | 0 | 0 | -16.0  | -16.0  |
| MH01 | 623355   | 4745400   | 268.15 | 188.15 | 0 | 72.4  | 72.4  | 1 | 1839.6 | 44.6 | 125  | 76.29 | 0 | 1.78 | 0 | 0 | 0.76   | 0 | 0 | 0 | 0 | 0 | 0 | -6.4   | -6.4   |
| MH01 | 623355   | 4745400   | 268.15 | 188.15 | 0 | 82.7  | 82.7  | 1 | 1839.6 | 44.6 | 250  | 76.29 | 0 | 0.07 | 0 | 0 | 1.92   | 0 | 0 | 0 | 0 | 0 | 0 | 4.4    | 4.4    |
| MH01 | 623355   | 4745400   | 268.15 | 188.15 | 0 | 90.4  | 90.4  | 1 | 1839.6 | 44.6 | 500  | 76.29 | 0 | -0.9 | 0 | 0 | 3.55   | 0 | 0 | 0 | 0 | 0 | 0 | 11.5   | 11.5   |
| MH01 | 623355   | 4745400   | 268.15 | 188.15 | 0 | 96.8  | 96.8  | 1 | 1839.6 | 44.6 | 1000 | 76.29 | 0 | -0.9 | 0 | 0 | 6.73   | 0 | 0 | 0 | 0 | 0 | 0 | 14.7   | 14.7   |
| MH01 | 623355   | 4745400   | 268.15 | 188.15 | 0 | 97.2  | 97.2  | 1 | 1839.6 | 44.6 | 2000 | 76.29 | 0 | -0.9 | 0 | 0 | 17.78  | 0 | 0 | 0 | 0 | 0 | 0 | 4.0    | 4.0    |
| MH01 | 623355   | 4745400   | 268.15 | 188.15 | 0 | 96.0  | 96.0  | 1 | 1839.6 | 44.6 | 4000 | 76.29 | 0 | -0.9 | 0 | 0 | 60.28  | 0 | 0 | 0 | 0 | 0 | 0 | -39.7  | -39.7  |
| MH01 | 623355   | 4745400   | 268.15 | 188.15 | 0 | 89.2  | 89.2  | 1 | 1839.6 | 44.6 | 8000 | 76.29 | 0 | -0.9 | 0 | 0 | 215.02 | 0 | 0 | 0 | 0 | 0 | 0 | -201.2 | -201.2 |
| MH03 | 623974   | 4745737   | 265.45 | 185.45 | 0 | -39.4 | -39.4 | 1 | 1924.7 | 43.4 | 32   | 76.69 | 0 | -3   | 0 | 0 | 0.06   | 0 | 0 | 0 | 0 | 0 | 0 | -113.2 | -113.2 |
| MH03 | 623974   | 4745737   | 265.45 | 185.45 | 0 | 57.5  | 57.5  | 1 | 1924.7 | 43.4 | 63   | 76.69 | 0 | -3   | 0 | 0 | 0.23   | 0 | 0 | 0 | 0 | 0 | 0 | -16.4  | -16.4  |
| MH03 | 623974   | 4745737   | 265.45 | 185.45 | 0 | 72.4  | 72.4  | 1 | 1924.7 | 43.4 | 125  | 76.69 | 0 | 1.78 | 0 | 0 | 0.79   | 0 | 0 | 0 | 0 | 0 | 0 | -6.9   | -6.9   |
| MH03 | 623974   | 4745737   | 265.45 | 185.45 | 0 | 82.7  | 82.7  | 1 | 1924.7 | 43.4 | 250  | 76.69 | 0 | 0.07 | 0 | 0 | 2.01   | 0 | 0 | 0 | 0 | 0 | 0 | 3.9    | 3.9    |
| MH03 | 623974   | 4745737   | 265.45 | 185.45 | 0 | 90.4  | 90.4  | 1 | 1924.7 | 43.4 | 500  | 76.69 | 0 | -0.9 | 0 | 0 | 3.71   | 0 | 0 | 0 | 0 | 0 | 0 | 10.9   | 10.9   |
| MH03 | 623974   | 4745737   | 265.45 | 185.45 | 0 | 96.8  | 96.8  | 1 | 1924.7 | 43.4 | 1000 | 76.69 | 0 | -0.9 | 0 | 0 | 7.04   | 0 | 0 | 0 | 0 | 0 | 0 | 14.0   | 14.0   |
| MH03 | 623974   | 4745737   | 265.45 | 185.45 | 0 | 97.2  | 97.2  | 1 | 1924.7 | 43.4 | 2000 | 76.69 | 0 | -0.9 | 0 | 0 | 18.6   | 0 | 0 | 0 | 0 | 0 | 0 | 2.8    | 2.8    |
| MH03 | 623974   | 4745737   | 265.45 | 185.45 | 0 | 96.0  | 96.0  | 1 | 1924.7 | 43.4 | 4000 | 76.69 | 0 | -0.9 | 0 | 0 | 63.07  | 0 | 0 | 0 | 0 | 0 | 0 | -42.9  | -42.9  |
| MH03 | 623974   | 4745737   | 265.45 | 185.45 | 0 | 89.2  | 89.2  | 1 | 1924.7 | 43.4 | 8000 | 76.69 | 0 | -0.9 | 0 | 0 | 224.96 | 0 | 0 | 0 | 0 | 0 | 0 | -211.6 | -211.6 |
| T22  | 624829.2 | 4748510   | 313.04 | 178.04 | 0 | -39.4 | -39.4 | 1 | 2667.0 | 69.5 | 32   | 79.52 | 0 | -3   | 0 | 0 | 0.09   | 0 | 0 | 0 | 0 | 0 | 0 | -116.0 | -116.0 |
| T22  | 624829.2 | 4748510   | 313.04 | 178.04 | 0 | 83.6  | 83.6  | 1 | 2667.0 | 69.5 | 63   | 79.52 | 0 | -3   | 0 | 0 | 0.32   | 0 | 0 | 0 | 0 | 0 | 0 | 6.8    | 6.8    |
| T22  | 624829.2 | 4748510   | 313.04 | 178.04 | 0 | 91.7  | 91.7  | 1 | 2667.0 | 69.5 | 125  | 79.52 | 0 | 1.78 | 0 | 0 | 1.1    | 0 | 0 | 0 | 0 | 0 | 0 | 9.3    | 9.3    |
| T22  | 624829.2 | 4748510   | 313.04 | 178.04 | 0 | 98.7  | 98.7  | 1 | 2667.0 | 69.5 | 250  | 79.52 | 0 | 0.07 | 0 | 0 | 2.78   | 0 | 0 | 0 | 0 | 0 | 0 | 16.3   | 16.3   |
| T22  | 624829.2 | 4748510   | 313.04 | 178.04 | 0 | 100.8 | 100.8 | 1 | 2667.0 | 69.5 | 500  | 79.52 | 0 | -0.9 | 0 | 0 | 5.14   | 0 | 0 | 0 | 0 | 0 | 0 | 17.0   | 17.0   |
| T22  | 624829.2 | 4748510   | 313.04 | 178.04 | 0 | 98.3  | 98.3  | 1 | 2667.0 | 69.5 | 1000 | 79.52 | 0 | -0.9 | 0 | 0 | 9.76   | 0 | 0 | 0 | 0 | 0 | 0 | 9.9    | 9.9    |
| T22  | 624829.2 | 4748510   | 313.04 | 178.04 | 0 | 92.8  | 92.8  | 1 | 2667.0 | 69.5 | 2000 | 79.52 | 0 | -0.9 | 0 | 0 | 25.77  | 0 | 0 | 0 | 0 | 0 | 0 | -11.6  | -11.6  |



|     |           |            |        |        |   |       |       |   |        |      |      |       |   |      |   |   |        |   |   |   |   |   |   |        |        |
|-----|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|------|---|---|--------|---|---|---|---|---|---|--------|--------|
| T22 | 624829.2  | 4748510    | 313.04 | 178.04 | 0 | 85.9  | 85.9  | 1 | 2667.0 | 69.5 | 4000 | 79.52 | 0 | -0.9 | 0 | 0 | 87.4   | 0 | 0 | 0 | 0 | 0 | 0 | -80.1  | -80.1  |
| T22 | 624829.2  | 4748510    | 313.04 | 178.04 | 0 | 73.3  | 73.3  | 1 | 2667.0 | 69.5 | 8000 | 79.52 | 0 | -0.9 | 0 | 0 | 311.73 | 0 | 0 | 0 | 0 | 0 | 0 | -317.1 | -317.1 |
| T16 | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | -39.4 | -39.4 | 1 | 2680.8 | 69.2 | 32   | 79.57 | 0 | -3   | 0 | 0 | 0.09   | 0 | 0 | 0 | 0 | 0 | 0 | -116.1 | -116.1 |
| T16 | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 83.6  | 83.6  | 1 | 2680.8 | 69.2 | 63   | 79.57 | 0 | -3   | 0 | 0 | 0.33   | 0 | 0 | 0 | 0 | 0 | 0 | 6.7    | 6.7    |
| T16 | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 91.7  | 91.7  | 1 | 2680.8 | 69.2 | 125  | 79.57 | 0 | 1.78 | 0 | 0 | 1.1    | 0 | 0 | 0 | 0 | 0 | 0 | 9.3    | 9.3    |
| T16 | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 98.7  | 98.7  | 1 | 2680.8 | 69.2 | 250  | 79.57 | 0 | 0.07 | 0 | 0 | 2.8    | 0 | 0 | 0 | 0 | 0 | 0 | 16.3   | 16.3   |
| T16 | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 100.8 | 100.8 | 1 | 2680.8 | 69.2 | 500  | 79.57 | 0 | -0.9 | 0 | 0 | 5.17   | 0 | 0 | 0 | 0 | 0 | 0 | 17.0   | 17.0   |
| T16 | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 98.3  | 98.3  | 1 | 2680.8 | 69.2 | 1000 | 79.57 | 0 | -0.9 | 0 | 0 | 9.81   | 0 | 0 | 0 | 0 | 0 | 0 | 9.8    | 9.8    |
| T16 | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 92.8  | 92.8  | 1 | 2680.8 | 69.2 | 2000 | 79.57 | 0 | -0.9 | 0 | 0 | 25.91  | 0 | 0 | 0 | 0 | 0 | 0 | -11.8  | -11.8  |
| T16 | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 85.9  | 85.9  | 1 | 2680.8 | 69.2 | 4000 | 79.57 | 0 | -0.9 | 0 | 0 | 87.85  | 0 | 0 | 0 | 0 | 0 | 0 | -80.6  | -80.6  |
| T16 | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 73.3  | 73.3  | 1 | 2680.8 | 69.2 | 8000 | 79.57 | 0 | -0.9 | 0 | 0 | 313.34 | 0 | 0 | 0 | 0 | 0 | 0 | -318.7 | -318.7 |
| T21 | 625004    | 4748242    | 313.63 | 178.63 | 0 | -39.4 | -39.4 | 1 | 2688.4 | 69.6 | 32   | 79.59 | 0 | -3   | 0 | 0 | 0.09   | 0 | 0 | 0 | 0 | 0 | 0 | -116.1 | -116.1 |
| T21 | 625004    | 4748242    | 313.63 | 178.63 | 0 | 83.6  | 83.6  | 1 | 2688.4 | 69.6 | 63   | 79.59 | 0 | -3   | 0 | 0 | 0.33   | 0 | 0 | 0 | 0 | 0 | 0 | 6.7    | 6.7    |
| T21 | 625004    | 4748242    | 313.63 | 178.63 | 0 | 91.7  | 91.7  | 1 | 2688.4 | 69.6 | 125  | 79.59 | 0 | 1.78 | 0 | 0 | 1.1    | 0 | 0 | 0 | 0 | 0 | 0 | 9.2    | 9.2    |
| T21 | 625004    | 4748242    | 313.63 | 178.63 | 0 | 98.7  | 98.7  | 1 | 2688.4 | 69.6 | 250  | 79.59 | 0 | 0.07 | 0 | 0 | 2.8    | 0 | 0 | 0 | 0 | 0 | 0 | 16.2   | 16.2   |
| T21 | 625004    | 4748242    | 313.63 | 178.63 | 0 | 100.8 | 100.8 | 1 | 2688.4 | 69.6 | 500  | 79.59 | 0 | -0.9 | 0 | 0 | 5.18   | 0 | 0 | 0 | 0 | 0 | 0 | 16.9   | 16.9   |
| T21 | 625004    | 4748242    | 313.63 | 178.63 | 0 | 98.3  | 98.3  | 1 | 2688.4 | 69.6 | 1000 | 79.59 | 0 | -0.9 | 0 | 0 | 9.83   | 0 | 0 | 0 | 0 | 0 | 0 | 9.8    | 9.8    |
| T21 | 625004    | 4748242    | 313.63 | 178.63 | 0 | 92.8  | 92.8  | 1 | 2688.4 | 69.6 | 2000 | 79.59 | 0 | -0.9 | 0 | 0 | 25.98  | 0 | 0 | 0 | 0 | 0 | 0 | -11.9  | -11.9  |
| T21 | 625004    | 4748242    | 313.63 | 178.63 | 0 | 85.9  | 85.9  | 1 | 2688.4 | 69.6 | 4000 | 79.59 | 0 | -0.9 | 0 | 0 | 88.1   | 0 | 0 | 0 | 0 | 0 | 0 | -80.9  | -80.9  |
| T21 | 625004    | 4748242    | 313.63 | 178.63 | 0 | 73.3  | 73.3  | 1 | 2688.4 | 69.6 | 8000 | 79.59 | 0 | -0.9 | 0 | 0 | 314.22 | 0 | 0 | 0 | 0 | 0 | 0 | -319.6 | -319.6 |
| T61 | 625177    | 4747970    | 313.9  | 178.9  | 0 | -39.4 | -39.4 | 1 | 2744.0 | 69.5 | 32   | 79.77 | 0 | -3   | 0 | 0 | 0.09   | 0 | 0 | 0 | 0 | 0 | 0 | -116.3 | -116.3 |
| T61 | 625177    | 4747970    | 313.9  | 178.9  | 0 | 83.6  | 83.6  | 1 | 2744.0 | 69.5 | 63   | 79.77 | 0 | -3   | 0 | 0 | 0.33   | 0 | 0 | 0 | 0 | 0 | 0 | 6.5    | 6.5    |
| T61 | 625177    | 4747970    | 313.9  | 178.9  | 0 | 91.7  | 91.7  | 1 | 2744.0 | 69.5 | 125  | 79.77 | 0 | 1.78 | 0 | 0 | 1.13   | 0 | 0 | 0 | 0 | 0 | 0 | 9.0    | 9.0    |
| T61 | 625177    | 4747970    | 313.9  | 178.9  | 0 | 98.7  | 98.7  | 1 | 2744.0 | 69.5 | 250  | 79.77 | 0 | 0.07 | 0 | 0 | 2.86   | 0 | 0 | 0 | 0 | 0 | 0 | 16.0   | 16.0   |
| T61 | 625177    | 4747970    | 313.9  | 178.9  | 0 | 100.8 | 100.8 | 1 | 2744.0 | 69.5 | 500  | 79.77 | 0 | -0.9 | 0 | 0 | 5.29   | 0 | 0 | 0 | 0 | 0 | 0 | 16.6   | 16.6   |
| T61 | 625177    | 4747970    | 313.9  | 178.9  | 0 | 98.3  | 98.3  | 1 | 2744.0 | 69.5 | 1000 | 79.77 | 0 | -0.9 | 0 | 0 | 10.04  | 0 | 0 | 0 | 0 | 0 | 0 | 9.4    | 9.4    |
| T61 | 625177    | 4747970    | 313.9  | 178.9  | 0 | 92.8  | 92.8  | 1 | 2744.0 | 69.5 | 2000 | 79.77 | 0 | -0.9 | 0 | 0 | 26.52  | 0 | 0 | 0 | 0 | 0 | 0 | -12.6  | -12.6  |
| T61 | 625177    | 4747970    | 313.9  | 178.9  | 0 | 85.9  | 85.9  | 1 | 2744.0 | 69.5 | 4000 | 79.77 | 0 | -0.9 | 0 | 0 | 89.92  | 0 | 0 | 0 | 0 | 0 | 0 | -82.9  | -82.9  |
| T61 | 625177    | 4747970    | 313.9  | 178.9  | 0 | 73.3  | 73.3  | 1 | 2744.0 | 69.5 | 8000 | 79.77 | 0 | -0.9 | 0 | 0 | 320.73 | 0 | 0 | 0 | 0 | 0 | 0 | -326.3 | -326.3 |
| T43 | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | -39.4 | -39.4 | 1 | 2918.7 | 69.5 | 32   | 80.3  | 0 | -3   | 0 | 0 | 0.09   | 0 | 0 | 0 | 0 | 0 | 0 | -116.8 | -116.8 |
| T43 | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 83.6  | 83.6  | 1 | 2918.7 | 69.5 | 63   | 80.3  | 0 | -3   | 0 | 0 | 0.36   | 0 | 0 | 0 | 0 | 0 | 0 | 5.9    | 5.9    |
| T43 | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 91.7  | 91.7  | 1 | 2918.7 | 69.5 | 125  | 80.3  | 0 | 1.78 | 0 | 0 | 1.2    | 0 | 0 | 0 | 0 | 0 | 0 | 8.4    | 8.4    |
| T43 | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 98.7  | 98.7  | 1 | 2918.7 | 69.5 | 250  | 80.3  | 0 | 0.07 | 0 | 0 | 3.05   | 0 | 0 | 0 | 0 | 0 | 0 | 15.3   | 15.3   |
| T43 | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 100.8 | 100.8 | 1 | 2918.7 | 69.5 | 500  | 80.3  | 0 | -0.9 | 0 | 0 | 5.63   | 0 | 0 | 0 | 0 | 0 | 0 | 15.8   | 15.8   |
| T43 | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 98.3  | 98.3  | 1 | 2918.7 | 69.5 | 1000 | 80.3  | 0 | -0.9 | 0 | 0 | 10.68  | 0 | 0 | 0 | 0 | 0 | 0 | 8.2    | 8.2    |
| T43 | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 92.8  | 92.8  | 1 | 2918.7 | 69.5 | 2000 | 80.3  | 0 | -0.9 | 0 | 0 | 28.21  | 0 | 0 | 0 | 0 | 0 | 0 | -14.8  | -14.8  |
| T43 | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 85.9  | 85.9  | 1 | 2918.7 | 69.5 | 4000 | 80.3  | 0 | -0.9 | 0 | 0 | 95.65  | 0 | 0 | 0 | 0 | 0 | 0 | -89.2  | -89.2  |
| T43 | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 73.3  | 73.3  | 1 | 2918.7 | 69.5 | 8000 | 80.3  | 0 | -0.9 | 0 | 0 | 341.15 | 0 | 0 | 0 | 0 | 0 | 0 | -347.3 | -347.3 |
| T20 | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | -39.4 | -39.4 | 1 | 3003.3 | 69.1 | 32   | 80.55 | 0 | -3   | 0 | 0 | 0.1    | 0 | 0 | 0 | 0 | 0 | 0 | -117.1 | -117.1 |
| T20 | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 83.6  | 83.6  | 1 | 3003.3 | 69.1 | 63   | 80.55 | 0 | -3   | 0 | 0 | 0.37   | 0 | 0 | 0 | 0 | 0 | 0 | 5.7    | 5.7    |
| T20 | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 91.7  | 91.7  | 1 | 3003.3 | 69.1 | 125  | 80.55 | 0 | 1.78 | 0 | 0 | 1.23   | 0 | 0 | 0 | 0 | 0 | 0 | 8.1    | 8.1    |
| T20 | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 98.7  | 98.7  | 1 | 3003.3 | 69.1 | 250  | 80.55 | 0 | 0.07 | 0 | 0 | 3.13   | 0 | 0 | 0 | 0 | 0 | 0 | 14.9   | 14.9   |
| T20 | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 100.8 | 100.8 | 1 | 3003.3 | 69.1 | 500  | 80.55 | 0 | -0.9 | 0 | 0 | 5.79   | 0 | 0 | 0 | 0 | 0 | 0 | 15.4   | 15.4   |
| T20 | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 98.3  | 98.3  | 1 | 3003.3 | 69.1 | 1000 | 80.55 | 0 | -0.9 | 0 | 0 | 10.99  | 0 | 0 | 0 | 0 | 0 | 0 | 7.7    | 7.7    |
| T20 | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 92.8  | 92.8  | 1 | 3003.3 | 69.1 | 2000 | 80.55 | 0 | -0.9 | 0 | 0 | 29.02  | 0 | 0 | 0 | 0 | 0 | 0 | -15.9  | -15.9  |
| T20 | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 85.9  | 85.9  | 1 | 3003.3 | 69.1 | 4000 | 80.55 | 0 | -0.9 | 0 | 0 | 98.42  | 0 | 0 | 0 | 0 | 0 | 0 | -92.2  | -92.2  |
| T20 | 620627.25 | 4749341.35 | 311.55 | 176.55 | 0 | 73.3  | 73.3  | 1 | 3003.3 | 69.1 | 8000 | 80.55 | 0 | -0.9 | 0 | 0 | 351.03 | 0 | 0 | 0 | 0 | 0 | 0 | -357.4 | -357.4 |





|         |           |            |        |        |   |       |       |   |        |      |      |       |   |       |   |   |        |   |   |   |   |   |        |        |
|---------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|-------|---|---|--------|---|---|---|---|---|--------|--------|
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 7075.5 | 71.3 | 500  | 88    | 0 | -1.27 | 0 | 0 | 13.64  | 0 | 0 | 0 | 0 | 0 | 0.4    | 0.4    |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 7075.5 | 71.3 | 1000 | 88    | 0 | -1.27 | 0 | 0 | 25.88  | 0 | 0 | 0 | 0 | 0 | -14.3  | -14.3  |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 7075.5 | 71.3 | 2000 | 88    | 0 | -1.27 | 0 | 0 | 68.38  | 0 | 0 | 0 | 0 | 0 | -62.3  | -62.3  |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 7075.5 | 71.3 | 4000 | 88    | 0 | -1.27 | 0 | 0 | 231.87 | 0 | 0 | 0 | 0 | 0 | -232.7 | -232.7 |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 7075.5 | 71.3 | 8000 | 88    | 0 | -1.27 | 0 | 0 | 827    | 0 | 0 | 0 | 0 | 0 | -840.4 | -840.4 |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | -39.4 | -39.4 | 1 | 7625.1 | 55.5 | 32   | 88.64 | 0 | -4.77 | 0 | 0 | 0.24   | 0 | 0 | 0 | 0 | 0 | -123.5 | -123.5 |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 82.4  | 82.4  | 1 | 7625.1 | 55.5 | 63   | 88.64 | 0 | -4.77 | 0 | 0 | 0.93   | 0 | 0 | 0 | 0 | 0 | -2.4   | -2.4   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 93.0  | 93.0  | 1 | 7625.1 | 55.5 | 125  | 88.64 | 0 | 1.25  | 0 | 0 | 3.13   | 0 | 0 | 0 | 0 | 0 | 0.0    | 0.0    |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 96.0  | 96.0  | 1 | 7625.1 | 55.5 | 250  | 88.64 | 0 | -0.46 | 0 | 0 | 7.96   | 0 | 0 | 0 | 0 | 0 | -0.1   | -0.1   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 99.8  | 99.8  | 1 | 7625.1 | 55.5 | 500  | 88.64 | 0 | -1.43 | 0 | 0 | 14.7   | 0 | 0 | 0 | 0 | 0 | -2.1   | -2.1   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 100.1 | 100.1 | 1 | 7625.1 | 55.5 | 1000 | 88.64 | 0 | -1.43 | 0 | 0 | 27.89  | 0 | 0 | 0 | 0 | 0 | -15.0  | -15.0  |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 96.5  | 96.5  | 1 | 7625.1 | 55.5 | 2000 | 88.64 | 0 | -1.43 | 0 | 0 | 73.69  | 0 | 0 | 0 | 0 | 0 | -64.4  | -64.4  |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 89.6  | 89.6  | 1 | 7625.1 | 55.5 | 4000 | 88.64 | 0 | -1.43 | 0 | 0 | 249.88 | 0 | 0 | 0 | 0 | 0 | -247.5 | -247.5 |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 85.2  | 85.2  | 1 | 7625.1 | 55.5 | 8000 | 88.64 | 0 | -1.43 | 0 | 0 | 891.24 | 0 | 0 | 0 | 0 | 0 | -893.3 | -893.3 |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | -39.4 | -39.4 | 1 | 7543.6 | 70.4 | 32   | 88.55 | 0 | -4.34 | 0 | 0 | 0.24   | 0 | 0 | 0 | 0 | 0 | -123.9 | -123.9 |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 83.6  | 83.6  | 1 | 7543.6 | 70.4 | 63   | 88.55 | 0 | -4.34 | 0 | 0 | 0.92   | 0 | 0 | 0 | 0 | 0 | -1.5   | -1.5   |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 91.7  | 91.7  | 1 | 7543.6 | 70.4 | 125  | 88.55 | 0 | 1.38  | 0 | 0 | 3.1    | 0 | 0 | 0 | 0 | 0 | -1.3   | -1.3   |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 98.7  | 98.7  | 1 | 7543.6 | 70.4 | 250  | 88.55 | 0 | -0.33 | 0 | 0 | 7.87   | 0 | 0 | 0 | 0 | 0 | 2.6    | 2.6    |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 100.8 | 100.8 | 1 | 7543.6 | 70.4 | 500  | 88.55 | 0 | -1.3  | 0 | 0 | 14.54  | 0 | 0 | 0 | 0 | 0 | -1.0   | -1.0   |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 98.3  | 98.3  | 1 | 7543.6 | 70.4 | 1000 | 88.55 | 0 | -1.3  | 0 | 0 | 27.59  | 0 | 0 | 0 | 0 | 0 | -16.5  | -16.5  |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 92.8  | 92.8  | 1 | 7543.6 | 70.4 | 2000 | 88.55 | 0 | -1.3  | 0 | 0 | 72.9   | 0 | 0 | 0 | 0 | 0 | -67.4  | -67.4  |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 85.9  | 85.9  | 1 | 7543.6 | 70.4 | 4000 | 88.55 | 0 | -1.3  | 0 | 0 | 247.21 | 0 | 0 | 0 | 0 | 0 | -248.6 | -248.6 |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 73.3  | 73.3  | 1 | 7543.6 | 70.4 | 8000 | 88.55 | 0 | -1.3  | 0 | 0 | 881.71 | 0 | 0 | 0 | 0 | 0 | -895.7 | -895.7 |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 7620.2 | 69.2 | 32   | 88.64 | 0 | -4.35 | 0 | 0 | 0.24   | 0 | 0 | 0 | 0 | 0 | -123.9 | -123.9 |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 7620.2 | 69.2 | 63   | 88.64 | 0 | -4.35 | 0 | 0 | 0.93   | 0 | 0 | 0 | 0 | 0 | -1.6   | -1.6   |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 7620.2 | 69.2 | 125  | 88.64 | 0 | 1.38  | 0 | 0 | 3.13   | 0 | 0 | 0 | 0 | 0 | -1.5   | -1.5   |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 7620.2 | 69.2 | 250  | 88.64 | 0 | -0.33 | 0 | 0 | 7.95   | 0 | 0 | 0 | 0 | 0 | 2.4    | 2.4    |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 7620.2 | 69.2 | 500  | 88.64 | 0 | -1.3  | 0 | 0 | 14.69  | 0 | 0 | 0 | 0 | 0 | -1.2   | -1.2   |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 7620.2 | 69.2 | 1000 | 88.64 | 0 | -1.31 | 0 | 0 | 27.87  | 0 | 0 | 0 | 0 | 0 | -16.9  | -16.9  |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 7620.2 | 69.2 | 2000 | 88.64 | 0 | -1.31 | 0 | 0 | 73.64  | 0 | 0 | 0 | 0 | 0 | -68.2  | -68.2  |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 7620.2 | 69.2 | 4000 | 88.64 | 0 | -1.31 | 0 | 0 | 249.72 | 0 | 0 | 0 | 0 | 0 | -251.2 | -251.2 |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 7620.2 | 69.2 | 8000 | 88.64 | 0 | -1.31 | 0 | 0 | 890.67 | 0 | 0 | 0 | 0 | 0 | -904.7 | -904.7 |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | -39.4 | -39.4 | 1 | 7873.6 | 55.6 | 32   | 88.92 | 0 | -4.81 | 0 | 0 | 0.25   | 0 | 0 | 0 | 0 | 0 | -123.8 | -123.8 |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 82.4  | 82.4  | 1 | 7873.6 | 55.6 | 63   | 88.92 | 0 | -4.81 | 0 | 0 | 0.96   | 0 | 0 | 0 | 0 | 0 | -2.7   | -2.7   |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 93.0  | 93.0  | 1 | 7873.6 | 55.6 | 125  | 88.92 | 0 | 1.24  | 0 | 0 | 3.24   | 0 | 0 | 0 | 0 | 0 | -0.4   | -0.4   |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 96.0  | 96.0  | 1 | 7873.6 | 55.6 | 250  | 88.92 | 0 | -0.47 | 0 | 0 | 8.22   | 0 | 0 | 0 | 0 | 0 | -0.7   | -0.7   |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 99.8  | 99.8  | 1 | 7873.6 | 55.6 | 500  | 88.92 | 0 | -1.44 | 0 | 0 | 15.18  | 0 | 0 | 0 | 0 | 0 | -2.9   | -2.9   |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 100.1 | 100.1 | 1 | 7873.6 | 55.6 | 1000 | 88.92 | 0 | -1.44 | 0 | 0 | 28.8   | 0 | 0 | 0 | 0 | 0 | -16.2  | -16.2  |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 96.5  | 96.5  | 1 | 7873.6 | 55.6 | 2000 | 88.92 | 0 | -1.44 | 0 | 0 | 76.09  | 0 | 0 | 0 | 0 | 0 | -67.1  | -67.1  |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 89.6  | 89.6  | 1 | 7873.6 | 55.6 | 4000 | 88.92 | 0 | -1.44 | 0 | 0 | 258.02 | 0 | 0 | 0 | 0 | 0 | -255.9 | -255.9 |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 85.2  | 85.2  | 1 | 7873.6 | 55.6 | 8000 | 88.92 | 0 | -1.44 | 0 | 0 | 920.28 | 0 | 0 | 0 | 0 | 0 | -922.6 | -922.6 |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | -39.4 | -39.4 | 1 | 7888.2 | 54.5 | 32   | 88.94 | 0 | -4.81 | 0 | 0 | 0.25   | 0 | 0 | 0 | 0 | 0 | -123.8 | -123.8 |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 82.4  | 82.4  | 1 | 7888.2 | 54.5 | 63   | 88.94 | 0 | -4.81 | 0 | 0 | 0.96   | 0 | 0 | 0 | 0 | 0 | -2.7   | -2.7   |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 93.0  | 93.0  | 1 | 7888.2 | 54.5 | 125  | 88.94 | 0 | 1.24  | 0 | 0 | 3.24   | 0 | 0 | 0 | 0 | 0 | -0.4   | -0.4   |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 96.0  | 96.0  | 1 | 7888.2 | 54.5 | 250  | 88.94 | 0 | -0.47 | 0 | 0 | 8.23   | 0 | 0 | 0 | 0 | 0 | -0.7   | -0.7   |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 99.8  | 99.8  | 1 | 7888.2 | 54.5 | 500  | 88.94 | 0 | -1.44 | 0 | 0 | 15.21  | 0 | 0 | 0 | 0 | 0 | -2.9   | -2.9   |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 100.1 | 100.1 | 1 | 7888.2 | 54.5 | 1000 | 88.94 | 0 | -1.44 | 0 | 0 | 28.85  | 0 | 0 | 0 | 0 | 0 | -16.3  | -16.3  |

|         |           |            |        |        |   |       |       |   |        |      |      |       |   |       |   |   |         |   |   |   |   |   |         |         |
|---------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---------|---------|
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 96.5  | 96.5  | 1 | 7888.2 | 54.5 | 2000 | 88.94 | 0 | -1.44 | 0 | 0 | 76.23   | 0 | 0 | 0 | 0 | 0 | -67.2   | -67.2   |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 89.6  | 89.6  | 1 | 7888.2 | 54.5 | 4000 | 88.94 | 0 | -1.44 | 0 | 0 | 258.5   | 0 | 0 | 0 | 0 | 0 | -256.4  | -256.4  |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 85.2  | 85.2  | 1 | 7888.2 | 54.5 | 8000 | 88.94 | 0 | -1.44 | 0 | 0 | 921.98  | 0 | 0 | 0 | 0 | 0 | -924.3  | -924.3  |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | -39.4 | -39.4 | 1 | 7985.6 | 54.8 | 32   | 89.05 | 0 | -4.83 | 0 | 0 | 0.26    | 0 | 0 | 0 | 0 | 0 | -123.9  | -123.9  |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 82.4  | 82.4  | 1 | 7985.6 | 54.8 | 63   | 89.05 | 0 | -4.83 | 0 | 0 | 0.97    | 0 | 0 | 0 | 0 | 0 | -2.8    | -2.8    |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 93.0  | 93.0  | 1 | 7985.6 | 54.8 | 125  | 89.05 | 0 | 1.23  | 0 | 0 | 3.28    | 0 | 0 | 0 | 0 | 0 | -0.6    | -0.6    |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 96.0  | 96.0  | 1 | 7985.6 | 54.8 | 250  | 89.05 | 0 | -0.48 | 0 | 0 | 8.33    | 0 | 0 | 0 | 0 | 0 | -0.9    | -0.9    |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 99.8  | 99.8  | 1 | 7985.6 | 54.8 | 500  | 89.05 | 0 | -1.45 | 0 | 0 | 15.4    | 0 | 0 | 0 | 0 | 0 | -3.2    | -3.2    |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 100.1 | 100.1 | 1 | 7985.6 | 54.8 | 1000 | 89.05 | 0 | -1.45 | 0 | 0 | 29.21   | 0 | 0 | 0 | 0 | 0 | -16.7   | -16.7   |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 96.5  | 96.5  | 1 | 7985.6 | 54.8 | 2000 | 89.05 | 0 | -1.45 | 0 | 0 | 77.17   | 0 | 0 | 0 | 0 | 0 | -68.3   | -68.3   |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 89.6  | 89.6  | 1 | 7985.6 | 54.8 | 4000 | 89.05 | 0 | -1.45 | 0 | 0 | 261.69  | 0 | 0 | 0 | 0 | 0 | -259.7  | -259.7  |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 85.2  | 85.2  | 1 | 7985.6 | 54.8 | 8000 | 89.05 | 0 | -1.45 | 0 | 0 | 933.37  | 0 | 0 | 0 | 0 | 0 | -935.8  | -935.8  |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | -39.4 | -39.4 | 1 | 8289.1 | 55.4 | 32   | 89.37 | 0 | -4.87 | 0 | 0 | 0.27    | 0 | 0 | 0 | 0 | 0 | -124.2  | -124.2  |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 82.4  | 82.4  | 1 | 8289.1 | 55.4 | 63   | 89.37 | 0 | -4.87 | 0 | 0 | 1.01    | 0 | 0 | 0 | 0 | 0 | -3.1    | -3.1    |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 93.0  | 93.0  | 1 | 8289.1 | 55.4 | 125  | 89.37 | 0 | 1.22  | 0 | 0 | 3.41    | 0 | 0 | 0 | 0 | 0 | -1.0    | -1.0    |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 96.0  | 96.0  | 1 | 8289.1 | 55.4 | 250  | 89.37 | 0 | -0.49 | 0 | 0 | 8.65    | 0 | 0 | 0 | 0 | 0 | -1.5    | -1.5    |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 99.8  | 99.8  | 1 | 8289.1 | 55.4 | 500  | 89.37 | 0 | -1.46 | 0 | 0 | 15.98   | 0 | 0 | 0 | 0 | 0 | -4.1    | -4.1    |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 100.1 | 100.1 | 1 | 8289.1 | 55.4 | 1000 | 89.37 | 0 | -1.46 | 0 | 0 | 30.32   | 0 | 0 | 0 | 0 | 0 | -18.1   | -18.1   |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 96.5  | 96.5  | 1 | 8289.1 | 55.4 | 2000 | 89.37 | 0 | -1.46 | 0 | 0 | 80.11   | 0 | 0 | 0 | 0 | 0 | -71.5   | -71.5   |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 89.6  | 89.6  | 1 | 8289.1 | 55.4 | 4000 | 89.37 | 0 | -1.46 | 0 | 0 | 271.63  | 0 | 0 | 0 | 0 | 0 | -269.9  | -269.9  |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 85.2  | 85.2  | 1 | 8289.1 | 55.4 | 8000 | 89.37 | 0 | -1.46 | 0 | 0 | 968.84  | 0 | 0 | 0 | 0 | 0 | -971.6  | -971.6  |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | -39.4 | -39.4 | 1 | 8300.0 | 55.4 | 32   | 89.38 | 0 | -4.87 | 0 | 0 | 0.27    | 0 | 0 | 0 | 0 | 0 | -124.2  | -124.2  |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 82.4  | 82.4  | 1 | 8300.0 | 55.4 | 63   | 89.38 | 0 | -4.87 | 0 | 0 | 1.01    | 0 | 0 | 0 | 0 | 0 | -3.1    | -3.1    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 93.0  | 93.0  | 1 | 8300.0 | 55.4 | 125  | 89.38 | 0 | 1.22  | 0 | 0 | 3.41    | 0 | 0 | 0 | 0 | 0 | -1.0    | -1.0    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 96.0  | 96.0  | 1 | 8300.0 | 55.4 | 250  | 89.38 | 0 | -0.49 | 0 | 0 | 8.66    | 0 | 0 | 0 | 0 | 0 | -1.6    | -1.6    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 99.8  | 99.8  | 1 | 8300.0 | 55.4 | 500  | 89.38 | 0 | -1.46 | 0 | 0 | 16      | 0 | 0 | 0 | 0 | 0 | -4.1    | -4.1    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 100.1 | 100.1 | 1 | 8300.0 | 55.4 | 1000 | 89.38 | 0 | -1.46 | 0 | 0 | 30.36   | 0 | 0 | 0 | 0 | 0 | -18.2   | -18.2   |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 96.5  | 96.5  | 1 | 8300.0 | 55.4 | 2000 | 89.38 | 0 | -1.46 | 0 | 0 | 80.21   | 0 | 0 | 0 | 0 | 0 | -71.6   | -71.6   |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 89.6  | 89.6  | 1 | 8300.0 | 55.4 | 4000 | 89.38 | 0 | -1.46 | 0 | 0 | 271.99  | 0 | 0 | 0 | 0 | 0 | -270.3  | -270.3  |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 85.2  | 85.2  | 1 | 8300.0 | 55.4 | 8000 | 89.38 | 0 | -1.46 | 0 | 0 | 970.12  | 0 | 0 | 0 | 0 | 0 | -972.8  | -972.8  |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 8730.9 | 68.8 | 32   | 89.82 | 0 | -4.56 | 0 | 0 | 0.28    | 0 | 0 | 0 | 0 | 0 | -124.9  | -124.9  |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 8730.9 | 68.8 | 63   | 89.82 | 0 | -4.56 | 0 | 0 | 1.06    | 0 | 0 | 0 | 0 | 0 | -2.7    | -2.7    |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 8730.9 | 68.8 | 125  | 89.82 | 0 | 1.31  | 0 | 0 | 3.59    | 0 | 0 | 0 | 0 | 0 | -3.0    | -3.0    |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 8730.9 | 68.8 | 250  | 89.82 | 0 | -0.4  | 0 | 0 | 9.11    | 0 | 0 | 0 | 0 | 0 | 0.2     | 0.2     |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 8730.9 | 68.8 | 500  | 89.82 | 0 | -1.37 | 0 | 0 | 16.83   | 0 | 0 | 0 | 0 | 0 | -4.5    | -4.5    |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 8730.9 | 68.8 | 1000 | 89.82 | 0 | -1.37 | 0 | 0 | 31.93   | 0 | 0 | 0 | 0 | 0 | -22.1   | -22.1   |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 8730.9 | 68.8 | 2000 | 89.82 | 0 | -1.37 | 0 | 0 | 84.37   | 0 | 0 | 0 | 0 | 0 | -80.0   | -80.0   |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 8730.9 | 68.8 | 4000 | 89.82 | 0 | -1.37 | 0 | 0 | 286.11  | 0 | 0 | 0 | 0 | 0 | -288.7  | -288.7  |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 8730.9 | 68.8 | 8000 | 89.82 | 0 | -1.37 | 0 | 0 | 1020.49 | 0 | 0 | 0 | 0 | 0 | -1035.6 | -1035.6 |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 8898.5 | 68.5 | 32   | 89.99 | 0 | -4.59 | 0 | 0 | 0.28    | 0 | 0 | 0 | 0 | 0 | -125.1  | -125.1  |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 8898.5 | 68.5 | 63   | 89.99 | 0 | -4.59 | 0 | 0 | 1.08    | 0 | 0 | 0 | 0 | 0 | -2.9    | -2.9    |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 8898.5 | 68.5 | 125  | 89.99 | 0 | 1.31  | 0 | 0 | 3.66    | 0 | 0 | 0 | 0 | 0 | -3.3    | -3.3    |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 8898.5 | 68.5 | 250  | 89.99 | 0 | -0.4  | 0 | 0 | 9.28    | 0 | 0 | 0 | 0 | 0 | -0.2    | -0.2    |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 8898.5 | 68.5 | 500  | 89.99 | 0 | -1.38 | 0 | 0 | 17.16   | 0 | 0 | 0 | 0 | 0 | -5.0    | -5.0    |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 8898.5 | 68.5 | 1000 | 89.99 | 0 | -1.38 | 0 | 0 | 32.55   | 0 | 0 | 0 | 0 | 0 | -22.9   | -22.9   |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 8898.5 | 68.5 | 2000 | 89.99 | 0 | -1.38 | 0 | 0 | 85.99   | 0 | 0 | 0 | 0 | 0 | -81.8   | -81.8   |
| T82     | 618390    | 4754915    | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 8898.5 | 68.5 | 4000 | 89.99 | 0 | -1.38 | 0 | 0 | 291.6   | 0 | 0 | 0 | 0 | 0 | -294.3  | -294.3  |

|      |           |            |        |        |   |       |       |   |        |      |      |       |   |       |      |      |         |   |   |   |   |   |   |         |         |
|------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|-------|------|------|---------|---|---|---|---|---|---|---------|---------|
| T82  | 618390    | 4754915    | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 8898.5 | 68.5 | 8000 | 89.99 | 0 | -1.38 | 0    | 0    | 1040.07 | 0 | 0 | 0 | 0 | 0 | 0 | -1055.4 | -1055.4 |
| T13  | 621410    | 4756122    | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 9129.2 | 69.3 | 32   | 90.21 | 0 | -4.62 | 0    | 0    | 0.29    | 0 | 0 | 0 | 0 | 0 | 0 | -125.3  | -125.3  |
| T13  | 621410    | 4756122    | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 9129.2 | 69.3 | 63   | 90.21 | 0 | -4.62 | 0    | 0    | 1.11    | 0 | 0 | 0 | 0 | 0 | 0 | -3.1    | -3.1    |
| T13  | 621410    | 4756122    | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 9129.2 | 69.3 | 125  | 90.21 | 0 | 1.3   | 0    | 0    | 3.75    | 0 | 0 | 0 | 0 | 0 | 0 | -3.6    | -3.6    |
| T13  | 621410    | 4756122    | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 9129.2 | 69.3 | 250  | 90.21 | 0 | -0.41 | 0    | 0    | 9.53    | 0 | 0 | 0 | 0 | 0 | 0 | -0.6    | -0.6    |
| T13  | 621410    | 4756122    | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 9129.2 | 69.3 | 500  | 90.21 | 0 | -1.39 | 0    | 0    | 17.6    | 0 | 0 | 0 | 0 | 0 | 0 | -5.6    | -5.6    |
| T13  | 621410    | 4756122    | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 9129.2 | 69.3 | 1000 | 90.21 | 0 | -1.39 | 0    | 0    | 33.39   | 0 | 0 | 0 | 0 | 0 | 0 | -23.9   | -23.9   |
| T13  | 621410    | 4756122    | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 9129.2 | 69.3 | 2000 | 90.21 | 0 | -1.39 | 0    | 0    | 88.22   | 0 | 0 | 0 | 0 | 0 | 0 | -84.3   | -84.3   |
| T13  | 621410    | 4756122    | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 9129.2 | 69.3 | 4000 | 90.21 | 0 | -1.39 | 0    | 0    | 299.16  | 0 | 0 | 0 | 0 | 0 | 0 | -302.1  | -302.1  |
| T13  | 621410    | 4756122    | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 9129.2 | 69.3 | 8000 | 90.21 | 0 | -1.39 | 0    | 0    | 1067.04 | 0 | 0 | 0 | 0 | 0 | 0 | -1082.6 | -1082.6 |
| ST2  | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 50.6  | 50.6  | 1 | 7612.6 | 4.3  | 32   | 88.63 | 0 | -5.9  | 4.77 | 0.02 | 0.24    | 0 | 0 | 0 | 0 | 0 | 0 | -37.1   | -37.1   |
| ST2  | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 72.8  | 72.8  | 1 | 7612.6 | 4.3  | 63   | 88.63 | 0 | -5.9  | 4.77 | 0.02 | 0.93    | 0 | 0 | 0 | 0 | 0 | 0 | -15.6   | -15.6   |
| ST2  | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 87.9  | 87.9  | 1 | 7612.6 | 4.3  | 125  | 88.63 | 0 | 3.79  | 0.98 | 0.02 | 3.13    | 0 | 0 | 0 | 0 | 0 | 0 | -8.6    | -8.6    |
| ST2  | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 94.4  | 94.4  | 1 | 7612.6 | 4.3  | 250  | 88.63 | 0 | 0.96  | 3.81 | 0.02 | 7.94    | 0 | 0 | 0 | 0 | 0 | 0 | -6.9    | -6.9    |
| ST2  | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 99.8  | 99.8  | 1 | 7612.6 | 4.3  | 500  | 88.63 | 0 | -1.75 | 4.77 | 0.02 | 14.68   | 0 | 0 | 0 | 0 | 0 | 0 | -6.5    | -6.5    |
| ST2  | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 97.0  | 97.0  | 1 | 7612.6 | 4.3  | 1000 | 88.63 | 0 | -1.77 | 4.77 | 0.02 | 27.84   | 0 | 0 | 0 | 0 | 0 | 0 | -22.5   | -22.5   |
| ST2  | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 93.2  | 93.2  | 1 | 7612.6 | 4.3  | 2000 | 88.63 | 0 | -1.77 | 4.77 | 0.02 | 73.57   | 0 | 0 | 0 | 0 | 0 | 0 | -72.0   | -72.0   |
| ST2  | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 88.0  | 88.0  | 1 | 7612.6 | 4.3  | 4000 | 88.63 | 0 | -1.77 | 4.77 | 0.02 | 249.47  | 0 | 0 | 0 | 0 | 0 | 0 | -253.1  | -253.1  |
| ST2  | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 78.9  | 78.9  | 1 | 7612.6 | 4.3  | 8000 | 88.63 | 0 | -1.77 | 4.77 | 0.02 | 889.78  | 0 | 0 | 0 | 0 | 0 | 0 | -902.5  | -902.5  |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | -39.4 | -39.4 | 1 | 9450.2 | 69.3 | 32   | 90.51 | 0 | -4.67 | 0    | 0    | 0.3     | 0 | 0 | 0 | 0 | 0 | 0 | -125.5  | -125.5  |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 83.6  | 83.6  | 1 | 9450.2 | 69.3 | 63   | 90.51 | 0 | -4.67 | 0    | 0    | 1.15    | 0 | 0 | 0 | 0 | 0 | 0 | -3.4    | -3.4    |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 91.7  | 91.7  | 1 | 9450.2 | 69.3 | 125  | 90.51 | 0 | 1.28  | 0    | 0    | 3.88    | 0 | 0 | 0 | 0 | 0 | 0 | -4.0    | -4.0    |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 98.7  | 98.7  | 1 | 9450.2 | 69.3 | 250  | 90.51 | 0 | -0.43 | 0    | 0    | 9.86    | 0 | 0 | 0 | 0 | 0 | 0 | -1.2    | -1.2    |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 100.8 | 100.8 | 1 | 9450.2 | 69.3 | 500  | 90.51 | 0 | -1.4  | 0    | 0    | 18.22   | 0 | 0 | 0 | 0 | 0 | 0 | -6.5    | -6.5    |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 98.3  | 98.3  | 1 | 9450.2 | 69.3 | 1000 | 90.51 | 0 | -1.4  | 0    | 0    | 34.57   | 0 | 0 | 0 | 0 | 0 | 0 | -25.4   | -25.4   |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 92.8  | 92.8  | 1 | 9450.2 | 69.3 | 2000 | 90.51 | 0 | -1.4  | 0    | 0    | 91.33   | 0 | 0 | 0 | 0 | 0 | 0 | -87.6   | -87.6   |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 85.9  | 85.9  | 1 | 9450.2 | 69.3 | 4000 | 90.51 | 0 | -1.4  | 0    | 0    | 309.68  | 0 | 0 | 0 | 0 | 0 | 0 | -312.9  | -312.9  |
| T12  | 621135.3  | 4756407    | 310.2  | 175.2  | 0 | 73.3  | 73.3  | 1 | 9450.2 | 69.3 | 8000 | 90.51 | 0 | -1.4  | 0    | 0    | 1104.55 | 0 | 0 | 0 | 0 | 0 | 0 | -1120.4 | -1120.4 |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | -38.7 | -38.7 | 1 | 9717.4 | 50.9 | 32   | 90.75 | 0 | -5.08 | 0    | 0    | 0.31    | 0 | 0 | 0 | 0 | 0 | 0 | -124.7  | -124.7  |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 86.0  | 86.0  | 1 | 9717.4 | 50.9 | 63   | 90.75 | 0 | -5.08 | 0    | 0    | 1.18    | 0 | 0 | 0 | 0 | 0 | 0 | -0.9    | -0.9    |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 91.0  | 91.0  | 1 | 9717.4 | 50.9 | 125  | 90.75 | 0 | 1.16  | 0    | 0    | 3.99    | 0 | 0 | 0 | 0 | 0 | 0 | -4.9    | -4.9    |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 98.5  | 98.5  | 1 | 9717.4 | 50.9 | 250  | 90.75 | 0 | -0.55 | 0    | 0    | 10.14   | 0 | 0 | 0 | 0 | 0 | 0 | -1.8    | -1.8    |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 95.4  | 95.4  | 1 | 9717.4 | 50.9 | 500  | 90.75 | 0 | -1.52 | 0    | 0    | 18.73   | 0 | 0 | 0 | 0 | 0 | 0 | -12.6   | -12.6   |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 98.5  | 98.5  | 1 | 9717.4 | 50.9 | 1000 | 90.75 | 0 | -1.52 | 0    | 0    | 35.54   | 0 | 0 | 0 | 0 | 0 | 0 | -26.3   | -26.3   |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 97.7  | 97.7  | 1 | 9717.4 | 50.9 | 2000 | 90.75 | 0 | -1.52 | 0    | 0    | 93.91   | 0 | 0 | 0 | 0 | 0 | 0 | -85.4   | -85.4   |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 96.7  | 96.7  | 1 | 9717.4 | 50.9 | 4000 | 90.75 | 0 | -1.52 | 0    | 0    | 318.44  | 0 | 0 | 0 | 0 | 0 | 0 | -311.0  | -311.0  |
| WF01 | 631359    | 4751252    | 270.12 | 175.12 | 0 | 92.1  | 92.1  | 1 | 9717.4 | 50.9 | 8000 | 90.75 | 0 | -1.52 | 0    | 0    | 1135.78 | 0 | 0 | 0 | 0 | 0 | 0 | -1132.9 | -1132.9 |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | -39.4 | -39.4 | 1 | 9678.7 | 69.2 | 32   | 90.72 | 0 | -4.7  | 0    | 0    | 0.31    | 0 | 0 | 0 | 0 | 0 | 0 | -125.7  | -125.7  |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 83.6  | 83.6  | 1 | 9678.7 | 69.2 | 63   | 90.72 | 0 | -4.7  | 0    | 0    | 1.18    | 0 | 0 | 0 | 0 | 0 | 0 | -3.6    | -3.6    |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 91.7  | 91.7  | 1 | 9678.7 | 69.2 | 125  | 90.72 | 0 | 1.27  | 0    | 0    | 3.98    | 0 | 0 | 0 | 0 | 0 | 0 | -4.3    | -4.3    |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 98.7  | 98.7  | 1 | 9678.7 | 69.2 | 250  | 90.72 | 0 | -0.44 | 0    | 0    | 10.1    | 0 | 0 | 0 | 0 | 0 | 0 | -1.7    | -1.7    |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 100.8 | 100.8 | 1 | 9678.7 | 69.2 | 500  | 90.72 | 0 | -1.41 | 0    | 0    | 18.66   | 0 | 0 | 0 | 0 | 0 | 0 | -7.2    | -7.2    |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 98.3  | 98.3  | 1 | 9678.7 | 69.2 | 1000 | 90.72 | 0 | -1.41 | 0    | 0    | 35.4    | 0 | 0 | 0 | 0 | 0 | 0 | -26.4   | -26.4   |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 92.8  | 92.8  | 1 | 9678.7 | 69.2 | 2000 | 90.72 | 0 | -1.41 | 0    | 0    | 93.53   | 0 | 0 | 0 | 0 | 0 | 0 | -90.0   | -90.0   |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 85.9  | 85.9  | 1 | 9678.7 | 69.2 | 4000 | 90.72 | 0 | -1.41 | 0    | 0    | 317.17  | 0 | 0 | 0 | 0 | 0 | 0 | -320.6  | -320.6  |
| T91  | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 73.3  | 73.3  | 1 | 9678.7 | 69.2 | 8000 | 90.72 | 0 | -1.41 | 0    | 0    | 1131.26 | 0 | 0 | 0 | 0 | 0 | 0 | -1147.3 | -1147.3 |
| WF02 | 631758    | 4750750    | 270.92 | 175.92 | 0 | -38.7 | -38.7 | 1 | 9881.2 | 51.0 | 32   | 90.9  | 0 | -5.09 | 0    | 0    | 0.32    | 0 | 0 | 0 | 0 | 0 | 0 | -124.8  | -124.8  |



|      |        |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|------|--------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| WF02 | 631758 | 4750750    | 270.92 | 175.92 | 0 | 86.0  | 86.0  | 1 | 9881.2  | 51.0 | 63   | 90.9  | 0 | -5.09 | 0 | 0 | 1.2     | 0 | 0 | 0 | 0 | 0 | 0 | -1.0    | -1.0    |
| WF02 | 631758 | 4750750    | 270.92 | 175.92 | 0 | 91.0  | 91.0  | 1 | 9881.2  | 51.0 | 125  | 90.9  | 0 | 1.15  | 0 | 0 | 4.06    | 0 | 0 | 0 | 0 | 0 | 0 | -5.1    | -5.1    |
| WF02 | 631758 | 4750750    | 270.92 | 175.92 | 0 | 98.5  | 98.5  | 1 | 9881.2  | 51.0 | 250  | 90.9  | 0 | -0.56 | 0 | 0 | 10.31   | 0 | 0 | 0 | 0 | 0 | 0 | -2.2    | -2.2    |
| WF02 | 631758 | 4750750    | 270.92 | 175.92 | 0 | 95.4  | 95.4  | 1 | 9881.2  | 51.0 | 500  | 90.9  | 0 | -1.53 | 0 | 0 | 19.05   | 0 | 0 | 0 | 0 | 0 | 0 | -13.0   | -13.0   |
| WF02 | 631758 | 4750750    | 270.92 | 175.92 | 0 | 98.5  | 98.5  | 1 | 9881.2  | 51.0 | 1000 | 90.9  | 0 | -1.53 | 0 | 0 | 36.14   | 0 | 0 | 0 | 0 | 0 | 0 | -27.0   | -27.0   |
| WF02 | 631758 | 4750750    | 270.92 | 175.92 | 0 | 97.7  | 97.7  | 1 | 9881.2  | 51.0 | 2000 | 90.9  | 0 | -1.53 | 0 | 0 | 95.49   | 0 | 0 | 0 | 0 | 0 | 0 | -87.2   | -87.2   |
| WF02 | 631758 | 4750750    | 270.92 | 175.92 | 0 | 96.7  | 96.7  | 1 | 9881.2  | 51.0 | 4000 | 90.9  | 0 | -1.53 | 0 | 0 | 323.81  | 0 | 0 | 0 | 0 | 0 | 0 | -316.5  | -316.5  |
| WF02 | 631758 | 4750750    | 270.92 | 175.92 | 0 | 92.1  | 92.1  | 1 | 9881.2  | 51.0 | 8000 | 90.9  | 0 | -1.53 | 0 | 0 | 1154.94 | 0 | 0 | 0 | 0 | 0 | 0 | -1152.2 | -1152.2 |
| T11  | 620836 | 4756609.3  | 310.87 | 175.87 | 0 | -39.4 | -39.4 | 1 | 9699.7  | 69.6 | 32   | 90.74 | 0 | -4.71 | 0 | 0 | 0.31    | 0 | 0 | 0 | 0 | 0 | 0 | -125.7  | -125.7  |
| T11  | 620836 | 4756609.3  | 310.87 | 175.87 | 0 | 83.6  | 83.6  | 1 | 9699.7  | 69.6 | 63   | 90.74 | 0 | -4.71 | 0 | 0 | 1.18    | 0 | 0 | 0 | 0 | 0 | 0 | -3.6    | -3.6    |
| T11  | 620836 | 4756609.3  | 310.87 | 175.87 | 0 | 91.7  | 91.7  | 1 | 9699.7  | 69.6 | 125  | 90.74 | 0 | 1.27  | 0 | 0 | 3.99    | 0 | 0 | 0 | 0 | 0 | 0 | -4.3    | -4.3    |
| T11  | 620836 | 4756609.3  | 310.87 | 175.87 | 0 | 98.7  | 98.7  | 1 | 9699.7  | 69.6 | 250  | 90.74 | 0 | -0.44 | 0 | 0 | 10.12   | 0 | 0 | 0 | 0 | 0 | 0 | -1.7    | -1.7    |
| T11  | 620836 | 4756609.3  | 310.87 | 175.87 | 0 | 100.8 | 100.8 | 1 | 9699.7  | 69.6 | 500  | 90.74 | 0 | -1.41 | 0 | 0 | 18.7    | 0 | 0 | 0 | 0 | 0 | 0 | -7.2    | -7.2    |
| T11  | 620836 | 4756609.3  | 310.87 | 175.87 | 0 | 98.3  | 98.3  | 1 | 9699.7  | 69.6 | 1000 | 90.74 | 0 | -1.41 | 0 | 0 | 35.48   | 0 | 0 | 0 | 0 | 0 | 0 | -26.5   | -26.5   |
| T11  | 620836 | 4756609.3  | 310.87 | 175.87 | 0 | 92.8  | 92.8  | 1 | 9699.7  | 69.6 | 2000 | 90.74 | 0 | -1.41 | 0 | 0 | 93.74   | 0 | 0 | 0 | 0 | 0 | 0 | -90.3   | -90.3   |
| T11  | 620836 | 4756609.3  | 310.87 | 175.87 | 0 | 85.9  | 85.9  | 1 | 9699.7  | 69.6 | 4000 | 90.74 | 0 | -1.41 | 0 | 0 | 317.86  | 0 | 0 | 0 | 0 | 0 | 0 | -321.3  | -321.3  |
| T11  | 620836 | 4756609.3  | 310.87 | 175.87 | 0 | 73.3  | 73.3  | 1 | 9699.7  | 69.6 | 8000 | 90.74 | 0 | -1.41 | 0 | 0 | 1133.72 | 0 | 0 | 0 | 0 | 0 | 0 | -1149.7 | -1149.7 |
| WF03 | 631921 | 4750541    | 271.25 | 176.25 | 0 | -38.7 | -38.7 | 1 | 9957.9  | 51.1 | 32   | 90.96 | 0 | -5.1  | 0 | 0 | 0.32    | 0 | 0 | 0 | 0 | 0 | 0 | -124.9  | -124.9  |
| WF03 | 631921 | 4750541    | 271.25 | 176.25 | 0 | 86.0  | 86.0  | 1 | 9957.9  | 51.1 | 63   | 90.96 | 0 | -5.1  | 0 | 0 | 1.21    | 0 | 0 | 0 | 0 | 0 | 0 | -1.1    | -1.1    |
| WF03 | 631921 | 4750541    | 271.25 | 176.25 | 0 | 91.0  | 91.0  | 1 | 9957.9  | 51.1 | 125  | 90.96 | 0 | 1.15  | 0 | 0 | 4.09    | 0 | 0 | 0 | 0 | 0 | 0 | -5.2    | -5.2    |
| WF03 | 631921 | 4750541    | 271.25 | 176.25 | 0 | 98.5  | 98.5  | 1 | 9957.9  | 51.1 | 250  | 90.96 | 0 | -0.56 | 0 | 0 | 10.39   | 0 | 0 | 0 | 0 | 0 | 0 | -2.3    | -2.3    |
| WF03 | 631921 | 4750541    | 271.25 | 176.25 | 0 | 95.4  | 95.4  | 1 | 9957.9  | 51.1 | 500  | 90.96 | 0 | -1.53 | 0 | 0 | 19.2    | 0 | 0 | 0 | 0 | 0 | 0 | -13.2   | -13.2   |
| WF03 | 631921 | 4750541    | 271.25 | 176.25 | 0 | 98.5  | 98.5  | 1 | 9957.9  | 51.1 | 1000 | 90.96 | 0 | -1.53 | 0 | 0 | 36.42   | 0 | 0 | 0 | 0 | 0 | 0 | -27.4   | -27.4   |
| WF03 | 631921 | 4750541    | 271.25 | 176.25 | 0 | 97.7  | 97.7  | 1 | 9957.9  | 51.1 | 2000 | 90.96 | 0 | -1.53 | 0 | 0 | 96.23   | 0 | 0 | 0 | 0 | 0 | 0 | -88.0   | -88.0   |
| WF03 | 631921 | 4750541    | 271.25 | 176.25 | 0 | 96.7  | 96.7  | 1 | 9957.9  | 51.1 | 4000 | 90.96 | 0 | -1.53 | 0 | 0 | 326.32  | 0 | 0 | 0 | 0 | 0 | 0 | -319.1  | -319.1  |
| WF03 | 631921 | 4750541    | 271.25 | 176.25 | 0 | 92.1  | 92.1  | 1 | 9957.9  | 51.1 | 8000 | 90.96 | 0 | -1.53 | 0 | 0 | 1163.9  | 0 | 0 | 0 | 0 | 0 | 0 | -1161.2 | -1161.2 |
| T41  | 620998 | 4756850.97 | 311.43 | 176.43 | 0 | -39.4 | -39.4 | 1 | 9910.2  | 70.0 | 32   | 90.92 | 0 | -4.73 | 0 | 0 | 0.32    | 0 | 0 | 0 | 0 | 0 | 0 | -125.9  | -125.9  |
| T41  | 620998 | 4756850.97 | 311.43 | 176.43 | 0 | 83.6  | 83.6  | 1 | 9910.2  | 70.0 | 63   | 90.92 | 0 | -4.73 | 0 | 0 | 1.21    | 0 | 0 | 0 | 0 | 0 | 0 | -3.8    | -3.8    |
| T41  | 620998 | 4756850.97 | 311.43 | 176.43 | 0 | 91.7  | 91.7  | 1 | 9910.2  | 70.0 | 125  | 90.92 | 0 | 1.26  | 0 | 0 | 4.07    | 0 | 0 | 0 | 0 | 0 | 0 | -4.6    | -4.6    |
| T41  | 620998 | 4756850.97 | 311.43 | 176.43 | 0 | 98.7  | 98.7  | 1 | 9910.2  | 70.0 | 250  | 90.92 | 0 | -0.45 | 0 | 0 | 10.34   | 0 | 0 | 0 | 0 | 0 | 0 | -2.1    | -2.1    |
| T41  | 620998 | 4756850.97 | 311.43 | 176.43 | 0 | 100.8 | 100.8 | 1 | 9910.2  | 70.0 | 500  | 90.92 | 0 | -1.42 | 0 | 0 | 19.11   | 0 | 0 | 0 | 0 | 0 | 0 | -7.8    | -7.8    |
| T41  | 620998 | 4756850.97 | 311.43 | 176.43 | 0 | 98.3  | 98.3  | 1 | 9910.2  | 70.0 | 1000 | 90.92 | 0 | -1.42 | 0 | 0 | 36.25   | 0 | 0 | 0 | 0 | 0 | 0 | -27.5   | -27.5   |
| T41  | 620998 | 4756850.97 | 311.43 | 176.43 | 0 | 92.8  | 92.8  | 1 | 9910.2  | 70.0 | 2000 | 90.92 | 0 | -1.42 | 0 | 0 | 95.77   | 0 | 0 | 0 | 0 | 0 | 0 | -92.5   | -92.5   |
| T41  | 620998 | 4756850.97 | 311.43 | 176.43 | 0 | 85.9  | 85.9  | 1 | 9910.2  | 70.0 | 4000 | 90.92 | 0 | -1.42 | 0 | 0 | 324.76  | 0 | 0 | 0 | 0 | 0 | 0 | -328.4  | -328.4  |
| T41  | 620998 | 4756850.97 | 311.43 | 176.43 | 0 | 73.3  | 73.3  | 1 | 9910.2  | 70.0 | 8000 | 90.92 | 0 | -1.42 | 0 | 0 | 1158.32 | 0 | 0 | 0 | 0 | 0 | 0 | -1174.5 | -1174.5 |
| WF04 | 632750 | 4748389    | 273.81 | 178.81 | 0 | -38.7 | -38.7 | 1 | 10247.6 | 52.7 | 32   | 91.21 | 0 | -5.13 | 0 | 0 | 0.33    | 0 | 0 | 0 | 0 | 0 | 0 | -125.1  | -125.1  |
| WF04 | 632750 | 4748389    | 273.81 | 178.81 | 0 | 86.0  | 86.0  | 1 | 10247.6 | 52.7 | 63   | 91.21 | 0 | -5.13 | 0 | 0 | 1.25    | 0 | 0 | 0 | 0 | 0 | 0 | -1.3    | -1.3    |
| WF04 | 632750 | 4748389    | 273.81 | 178.81 | 0 | 91.0  | 91.0  | 1 | 10247.6 | 52.7 | 125  | 91.21 | 0 | 1.14  | 0 | 0 | 4.21    | 0 | 0 | 0 | 0 | 0 | 0 | -5.6    | -5.6    |
| WF04 | 632750 | 4748389    | 273.81 | 178.81 | 0 | 98.5  | 98.5  | 1 | 10247.6 | 52.7 | 250  | 91.21 | 0 | -0.56 | 0 | 0 | 10.69   | 0 | 0 | 0 | 0 | 0 | 0 | -2.8    | -2.8    |
| WF04 | 632750 | 4748389    | 273.81 | 178.81 | 0 | 95.4  | 95.4  | 1 | 10247.6 | 52.7 | 500  | 91.21 | 0 | -1.54 | 0 | 0 | 19.76   | 0 | 0 | 0 | 0 | 0 | 0 | -14.0   | -14.0   |
| WF04 | 632750 | 4748389    | 273.81 | 178.81 | 0 | 98.5  | 98.5  | 1 | 10247.6 | 52.7 | 1000 | 91.21 | 0 | -1.54 | 0 | 0 | 37.48   | 0 | 0 | 0 | 0 | 0 | 0 | -28.7   | -28.7   |
| WF04 | 632750 | 4748389    | 273.81 | 178.81 | 0 | 97.7  | 97.7  | 1 | 10247.6 | 52.7 | 2000 | 91.21 | 0 | -1.54 | 0 | 0 | 99.03   | 0 | 0 | 0 | 0 | 0 | 0 | -91.0   | -91.0   |
| WF04 | 632750 | 4748389    | 273.81 | 178.81 | 0 | 96.7  | 96.7  | 1 | 10247.6 | 52.7 | 4000 | 91.21 | 0 | -1.54 | 0 | 0 | 335.82  | 0 | 0 | 0 | 0 | 0 | 0 | -328.8  | -328.8  |
| WF04 | 632750 | 4748389    | 273.81 | 178.81 | 0 | 92.1  | 92.1  | 1 | 10247.6 | 52.7 | 8000 | 91.21 | 0 | -1.54 | 0 | 0 | 1197.76 | 0 | 0 | 0 | 0 | 0 | 0 | -1195.3 | -1195.3 |
| WF05 | 632706 | 4748817    | 272.08 | 177.08 | 0 | -38.7 | -38.7 | 1 | 10268.1 | 51.1 | 32   | 91.23 | 0 | -5.13 | 0 | 0 | 0.33    | 0 | 0 | 0 | 0 | 0 | 0 | -125.1  | -125.1  |
| WF05 | 632706 | 4748817    | 272.08 | 177.08 | 0 | 86.0  | 86.0  | 1 | 10268.1 | 51.1 | 63   | 91.23 | 0 | -5.13 | 0 | 0 | 1.25    | 0 | 0 | 0 | 0 | 0 | 0 | -1.4    | -1.4    |
| WF05 | 632706 | 4748817    | 272.08 | 177.08 | 0 | 91.0  | 91.0  | 1 | 10268.1 | 51.1 | 125  | 91.23 | 0 | 1.14  | 0 | 0 | 4.22    | 0 | 0 | 0 | 0 | 0 | 0 | -5.6    | -5.6    |

|      |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |       |         |   |   |   |   |   |         |         |
|------|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|-------|---------|---|---|---|---|---|---------|---------|
| WF05 | 632706    | 4748817    | 272.08 | 177.08 | 0 | 98.5  | 98.5  | 1 | 10268.1 | 51.1 | 250  | 91.23 | 0 | -0.57 | 0 | 0     | 10.71   | 0 | 0 | 0 | 0 | 0 | -2.9    | -2.9    |
| WF05 | 632706    | 4748817    | 272.08 | 177.08 | 0 | 95.4  | 95.4  | 1 | 10268.1 | 51.1 | 500  | 91.23 | 0 | -1.54 | 0 | 0     | 19.8    | 0 | 0 | 0 | 0 | 0 | -14.1   | -14.1   |
| WF05 | 632706    | 4748817    | 272.08 | 177.08 | 0 | 98.5  | 98.5  | 1 | 10268.1 | 51.1 | 1000 | 91.23 | 0 | -1.54 | 0 | 0     | 37.56   | 0 | 0 | 0 | 0 | 0 | -28.8   | -28.8   |
| WF05 | 632706    | 4748817    | 272.08 | 177.08 | 0 | 97.7  | 97.7  | 1 | 10268.1 | 51.1 | 2000 | 91.23 | 0 | -1.54 | 0 | 0     | 99.23   | 0 | 0 | 0 | 0 | 0 | -91.2   | -91.2   |
| WF05 | 632706    | 4748817    | 272.08 | 177.08 | 0 | 96.7  | 96.7  | 1 | 10268.1 | 51.1 | 4000 | 91.23 | 0 | -1.54 | 0 | 0     | 336.49  | 0 | 0 | 0 | 0 | 0 | -329.5  | -329.5  |
| WF05 | 632706    | 4748817    | 272.08 | 177.08 | 0 | 92.1  | 92.1  | 1 | 10268.1 | 51.1 | 8000 | 91.23 | 0 | -1.54 | 0 | 0     | 1200.15 | 0 | 0 | 0 | 0 | 0 | -1197.8 | -1197.8 |
| T72  | 620828    | 4757122    | 312.26 | 177.26 | 0 | -39.4 | -39.4 | 1 | 10205.7 | 70.3 | 32   | 91.18 | 0 | -4.77 | 0 | 0     | 0.33    | 0 | 0 | 0 | 0 | 0 | -126.1  | -126.1  |
| T72  | 620828    | 4757122    | 312.26 | 177.26 | 0 | 83.6  | 83.6  | 1 | 10205.7 | 70.3 | 63   | 91.18 | 0 | -4.77 | 0 | 0     | 1.24    | 0 | 0 | 0 | 0 | 0 | -4.1    | -4.1    |
| T72  | 620828    | 4757122    | 312.26 | 177.26 | 0 | 91.7  | 91.7  | 1 | 10205.7 | 70.3 | 125  | 91.18 | 0 | 1.25  | 0 | 0     | 4.19    | 0 | 0 | 0 | 0 | 0 | -4.9    | -4.9    |
| T72  | 620828    | 4757122    | 312.26 | 177.26 | 0 | 98.7  | 98.7  | 1 | 10205.7 | 70.3 | 250  | 91.18 | 0 | -0.46 | 0 | 0     | 10.65   | 0 | 0 | 0 | 0 | 0 | -2.7    | -2.7    |
| T72  | 620828    | 4757122    | 312.26 | 177.26 | 0 | 100.8 | 100.8 | 1 | 10205.7 | 70.3 | 500  | 91.18 | 0 | -1.43 | 0 | 0     | 19.68   | 0 | 0 | 0 | 0 | 0 | -8.6    | -8.6    |
| T72  | 620828    | 4757122    | 312.26 | 177.26 | 0 | 98.3  | 98.3  | 1 | 10205.7 | 70.3 | 1000 | 91.18 | 0 | -1.43 | 0 | 0     | 37.33   | 0 | 0 | 0 | 0 | 0 | -28.8   | -28.8   |
| T72  | 620828    | 4757122    | 312.26 | 177.26 | 0 | 92.8  | 92.8  | 1 | 10205.7 | 70.3 | 2000 | 91.18 | 0 | -1.43 | 0 | 0     | 98.63   | 0 | 0 | 0 | 0 | 0 | -95.6   | -95.6   |
| T72  | 620828    | 4757122    | 312.26 | 177.26 | 0 | 85.9  | 85.9  | 1 | 10205.7 | 70.3 | 4000 | 91.18 | 0 | -1.43 | 0 | 0     | 334.44  | 0 | 0 | 0 | 0 | 0 | -338.3  | -338.3  |
| T72  | 620828    | 4757122    | 312.26 | 177.26 | 0 | 73.3  | 73.3  | 1 | 10205.7 | 70.3 | 8000 | 91.18 | 0 | -1.43 | 0 | 0     | 1192.86 | 0 | 0 | 0 | 0 | 0 | -1209.3 | -1209.3 |
| T37  | 623038.4  | 4758881    | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 11820.3 | 70.0 | 32   | 92.45 | 0 | -4.94 | 0 | -1.34 | 0.38    | 0 | 0 | 0 | 0 | 0 | -127.3  | -127.3  |
| T37  | 623038.4  | 4758881    | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 11820.3 | 70.0 | 63   | 92.45 | 0 | -4.94 | 0 | -1.34 | 1.44    | 0 | 0 | 0 | 0 | 0 | -5.4    | -5.4    |
| T37  | 623038.4  | 4758881    | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 11820.3 | 70.0 | 125  | 92.45 | 0 | 1.2   | 0 | -1.34 | 4.86    | 0 | 0 | 0 | 0 | 0 | -6.8    | -6.8    |
| T37  | 623038.4  | 4758881    | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 11820.3 | 70.0 | 250  | 92.45 | 0 | -0.51 | 0 | -1.34 | 12.33   | 0 | 0 | 0 | 0 | 0 | -5.6    | -5.6    |
| T37  | 623038.4  | 4758881    | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 11820.3 | 70.0 | 500  | 92.45 | 0 | -1.48 | 0 | -1.34 | 22.79   | 0 | 0 | 0 | 0 | 0 | -13.0   | -13.0   |
| T37  | 623038.4  | 4758881    | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 11820.3 | 70.0 | 1000 | 92.45 | 0 | -1.48 | 0 | -1.34 | 43.23   | 0 | 0 | 0 | 0 | 0 | -35.9   | -35.9   |
| T37  | 623038.4  | 4758881    | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 11820.3 | 70.0 | 2000 | 92.45 | 0 | -1.48 | 0 | -1.34 | 114.23  | 0 | 0 | 0 | 0 | 0 | -112.4  | -112.4  |
| T37  | 623038.4  | 4758881    | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 11820.3 | 70.0 | 4000 | 92.45 | 0 | -1.48 | 0 | -1.34 | 387.35  | 0 | 0 | 0 | 0 | 0 | -392.4  | -392.4  |
| T37  | 623038.4  | 4758881    | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 11820.3 | 70.0 | 8000 | 92.45 | 0 | -1.48 | 0 | -1.34 | 1381.57 | 0 | 0 | 0 | 0 | 0 | -1399.3 | -1399.3 |
| T10  | 623259.47 | 4758989.94 | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 11939.5 | 69.9 | 32   | 92.54 | 0 | -4.95 | 0 | 0     | 0.38    | 0 | 0 | 0 | 0 | 0 | -127.4  | -127.4  |
| T10  | 623259.47 | 4758989.94 | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 11939.5 | 69.9 | 63   | 92.54 | 0 | -4.95 | 0 | 0     | 1.45    | 0 | 0 | 0 | 0 | 0 | -5.4    | -5.4    |
| T10  | 623259.47 | 4758989.94 | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 11939.5 | 69.9 | 125  | 92.54 | 0 | 1.2   | 0 | 0     | 4.91    | 0 | 0 | 0 | 0 | 0 | -6.9    | -6.9    |
| T10  | 623259.47 | 4758989.94 | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 11939.5 | 69.9 | 250  | 92.54 | 0 | -0.51 | 0 | 0     | 12.46   | 0 | 0 | 0 | 0 | 0 | -5.8    | -5.8    |
| T10  | 623259.47 | 4758989.94 | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 11939.5 | 69.9 | 500  | 92.54 | 0 | -1.48 | 0 | 0     | 23.02   | 0 | 0 | 0 | 0 | 0 | -13.3   | -13.3   |
| T10  | 623259.47 | 4758989.94 | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 11939.5 | 69.9 | 1000 | 92.54 | 0 | -1.48 | 0 | 0     | 43.67   | 0 | 0 | 0 | 0 | 0 | -36.4   | -36.4   |
| T10  | 623259.47 | 4758989.94 | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 11939.5 | 69.9 | 2000 | 92.54 | 0 | -1.48 | 0 | 0     | 115.38  | 0 | 0 | 0 | 0 | 0 | -113.6  | -113.6  |
| T10  | 623259.47 | 4758989.94 | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 11939.5 | 69.9 | 4000 | 92.54 | 0 | -1.48 | 0 | 0     | 391.26  | 0 | 0 | 0 | 0 | 0 | -396.4  | -396.4  |
| T10  | 623259.47 | 4758989.94 | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 11939.5 | 69.9 | 8000 | 92.54 | 0 | -1.48 | 0 | 0     | 1395.51 | 0 | 0 | 0 | 0 | 0 | -1413.3 | -1413.3 |
| RFT  | 615270    | 4756417    | 250    | 175    | 0 | -41.9 | -41.9 | 1 | 11871.1 | 39.8 | 32   | 92.49 | 0 | -5.4  | 0 | 0     | 0.38    | 0 | 0 | 0 | 0 | 0 | -129.4  | -129.4  |
| RFT  | 615270    | 4756417    | 250    | 175    | 0 | 87.6  | 87.6  | 1 | 11871.1 | 39.8 | 63   | 92.49 | 0 | -5.4  | 0 | 0     | 1.44    | 0 | 0 | 0 | 0 | 0 | -0.9    | -0.9    |
| RFT  | 615270    | 4756417    | 250    | 175    | 0 | 95.2  | 95.2  | 1 | 11871.1 | 39.8 | 125  | 92.49 | 0 | 1.06  | 0 | 0     | 4.88    | 0 | 0 | 0 | 0 | 0 | -3.2    | -3.2    |
| RFT  | 615270    | 4756417    | 250    | 175    | 0 | 94.3  | 94.3  | 1 | 11871.1 | 39.8 | 250  | 92.49 | 0 | -0.65 | 0 | 0     | 12.39   | 0 | 0 | 0 | 0 | 0 | -9.9    | -9.9    |
| RFT  | 615270    | 4756417    | 250    | 175    | 0 | 97.1  | 97.1  | 1 | 11871.1 | 39.8 | 500  | 92.49 | 0 | -1.62 | 0 | 0     | 22.89   | 0 | 0 | 0 | 0 | 0 | -16.7   | -16.7   |
| RFT  | 615270    | 4756417    | 250    | 175    | 0 | 98.9  | 98.9  | 1 | 11871.1 | 39.8 | 1000 | 92.49 | 0 | -1.62 | 0 | 0     | 43.42   | 0 | 0 | 0 | 0 | 0 | -35.4   | -35.4   |
| RFT  | 615270    | 4756417    | 250    | 175    | 0 | 94.6  | 94.6  | 1 | 11871.1 | 39.8 | 2000 | 92.49 | 0 | -1.62 | 0 | 0     | 114.72  | 0 | 0 | 0 | 0 | 0 | -111.0  | -111.0  |
| RFT  | 615270    | 4756417    | 250    | 175    | 0 | 83.1  | 83.1  | 1 | 11871.1 | 39.8 | 4000 | 92.49 | 0 | -1.62 | 0 | 0     | 389.02  | 0 | 0 | 0 | 0 | 0 | -396.8  | -396.8  |
| RFT  | 615270    | 4756417    | 250    | 175    | 0 | 75.8  | 75.8  | 1 | 11871.1 | 39.8 | 8000 | 92.49 | 0 | -1.62 | 0 | 0     | 1387.52 | 0 | 0 | 0 | 0 | 0 | -1402.6 | -1402.6 |
| T95  | 622816.64 | 4760851    | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 13783.5 | 72.5 | 32   | 93.79 | 0 | -5.09 | 0 | 0     | 0.44    | 0 | 0 | 0 | 0 | 0 | -128.5  | -128.5  |
| T95  | 622816.64 | 4760851    | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 13783.5 | 72.5 | 63   | 93.79 | 0 | -5.09 | 0 | 0     | 1.68    | 0 | 0 | 0 | 0 | 0 | -6.8    | -6.8    |
| T95  | 622816.64 | 4760851    | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 13783.5 | 72.5 | 125  | 93.79 | 0 | 1.16  | 0 | 0     | 5.66    | 0 | 0 | 0 | 0 | 0 | -8.9    | -8.9    |
| T95  | 622816.64 | 4760851    | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 13783.5 | 72.5 | 250  | 93.79 | 0 | -0.55 | 0 | 0     | 14.38   | 0 | 0 | 0 | 0 | 0 | -8.9    | -8.9    |
| T95  | 622816.64 | 4760851    | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 13783.5 | 72.5 | 500  | 93.79 | 0 | -1.53 | 0 | 0     | 26.57   | 0 | 0 | 0 | 0 | 0 | -18.0   | -18.0   |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 13783.5 | 72.5 | 1000 | 93.79 | 0 | -1.53 | 0 | 0 | 50.42   | 0 | 0 | 0 | 0 | 0 | 0 | -44.4   | -44.4   |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 13783.5 | 72.5 | 2000 | 93.79 | 0 | -1.53 | 0 | 0 | 133.2   | 0 | 0 | 0 | 0 | 0 | 0 | -132.7  | -132.7  |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 13783.5 | 72.5 | 4000 | 93.79 | 0 | -1.53 | 0 | 0 | 451.69  | 0 | 0 | 0 | 0 | 0 | 0 | -458.1  | -458.1  |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 13783.5 | 72.5 | 8000 | 93.79 | 0 | -1.53 | 0 | 0 | 1611.04 | 0 | 0 | 0 | 0 | 0 | 0 | -1630.0 | -1630.0 |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | -39.4 | -39.4 | 1 | 15960.1 | 72.2 | 32   | 95.06 | 0 | -5.21 | 0 | 0 | 0.51    | 0 | 0 | 0 | 0 | 0 | 0 | -129.8  | -129.8  |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 83.6  | 83.6  | 1 | 15960.1 | 72.2 | 63   | 95.06 | 0 | -5.21 | 0 | 0 | 1.94    | 0 | 0 | 0 | 0 | 0 | 0 | -8.2    | -8.2    |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 91.7  | 91.7  | 1 | 15960.1 | 72.2 | 125  | 95.06 | 0 | 1.12  | 0 | 0 | 6.56    | 0 | 0 | 0 | 0 | 0 | 0 | -11.0   | -11.0   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 98.7  | 98.7  | 1 | 15960.1 | 72.2 | 250  | 95.06 | 0 | -0.59 | 0 | 0 | 16.65   | 0 | 0 | 0 | 0 | 0 | 0 | -12.4   | -12.4   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 100.8 | 100.8 | 1 | 15960.1 | 72.2 | 500  | 95.06 | 0 | -1.56 | 0 | 0 | 30.77   | 0 | 0 | 0 | 0 | 0 | 0 | -23.5   | -23.5   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 98.3  | 98.3  | 1 | 15960.1 | 72.2 | 1000 | 95.06 | 0 | -1.56 | 0 | 0 | 58.38   | 0 | 0 | 0 | 0 | 0 | 0 | -53.6   | -53.6   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 92.8  | 92.8  | 1 | 15960.1 | 72.2 | 2000 | 95.06 | 0 | -1.56 | 0 | 0 | 154.24  | 0 | 0 | 0 | 0 | 0 | 0 | -154.9  | -154.9  |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 85.9  | 85.9  | 1 | 15960.1 | 72.2 | 4000 | 95.06 | 0 | -1.56 | 0 | 0 | 523.01  | 0 | 0 | 0 | 0 | 0 | 0 | -530.6  | -530.6  |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 73.3  | 73.3  | 1 | 15960.1 | 72.2 | 8000 | 95.06 | 0 | -1.56 | 0 | 0 | 1865.44 | 0 | 0 | 0 | 0 | 0 | 0 | -1885.6 | -1885.6 |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 16555.3 | 72.8 | 32   | 95.38 | 0 | -5.24 | 0 | 0 | 0.53    | 0 | 0 | 0 | 0 | 0 | 0 | -130.1  | -130.1  |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 16555.3 | 72.8 | 63   | 95.38 | 0 | -5.24 | 0 | 0 | 2.01    | 0 | 0 | 0 | 0 | 0 | 0 | -8.6    | -8.6    |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 16555.3 | 72.8 | 125  | 95.38 | 0 | 1.11  | 0 | 0 | 6.8     | 0 | 0 | 0 | 0 | 0 | 0 | -11.6   | -11.6   |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 16555.3 | 72.8 | 250  | 95.38 | 0 | -0.6  | 0 | 0 | 17.27   | 0 | 0 | 0 | 0 | 0 | 0 | -13.4   | -13.4   |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 16555.3 | 72.8 | 500  | 95.38 | 0 | -1.57 | 0 | 0 | 31.92   | 0 | 0 | 0 | 0 | 0 | 0 | -24.9   | -24.9   |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 16555.3 | 72.8 | 1000 | 95.38 | 0 | -1.57 | 0 | 0 | 60.55   | 0 | 0 | 0 | 0 | 0 | 0 | -56.1   | -56.1   |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 16555.3 | 72.8 | 2000 | 95.38 | 0 | -1.57 | 0 | 0 | 159.99  | 0 | 0 | 0 | 0 | 0 | 0 | -161.0  | -161.0  |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 16555.3 | 72.8 | 4000 | 95.38 | 0 | -1.57 | 0 | 0 | 542.52  | 0 | 0 | 0 | 0 | 0 | 0 | -550.4  | -550.4  |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 16555.3 | 72.8 | 8000 | 95.38 | 0 | -1.57 | 0 | 0 | 1935.01 | 0 | 0 | 0 | 0 | 0 | 0 | -1955.5 | -1955.5 |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 16641.4 | 72.8 | 32   | 95.42 | 0 | -5.25 | 0 | 0 | 0.53    | 0 | 0 | 0 | 0 | 0 | 0 | -130.1  | -130.1  |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 16641.4 | 72.8 | 63   | 95.42 | 0 | -5.25 | 0 | 0 | 2.03    | 0 | 0 | 0 | 0 | 0 | 0 | -8.6    | -8.6    |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 16641.4 | 72.8 | 125  | 95.42 | 0 | 1.11  | 0 | 0 | 6.84    | 0 | 0 | 0 | 0 | 0 | 0 | -11.7   | -11.7   |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 16641.4 | 72.8 | 250  | 95.42 | 0 | -0.6  | 0 | 0 | 17.36   | 0 | 0 | 0 | 0 | 0 | 0 | -13.5   | -13.5   |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 16641.4 | 72.8 | 500  | 95.42 | 0 | -1.57 | 0 | 0 | 32.08   | 0 | 0 | 0 | 0 | 0 | 0 | -25.1   | -25.1   |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 16641.4 | 72.8 | 1000 | 95.42 | 0 | -1.57 | 0 | 0 | 60.87   | 0 | 0 | 0 | 0 | 0 | 0 | -56.4   | -56.4   |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 16641.4 | 72.8 | 2000 | 95.42 | 0 | -1.57 | 0 | 0 | 160.82  | 0 | 0 | 0 | 0 | 0 | 0 | -161.9  | -161.9  |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 16641.4 | 72.8 | 4000 | 95.42 | 0 | -1.57 | 0 | 0 | 545.34  | 0 | 0 | 0 | 0 | 0 | 0 | -553.3  | -553.3  |
| T51 | 617020.3  | 4762751.78 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 16641.4 | 72.8 | 8000 | 95.42 | 0 | -1.57 | 0 | 0 | 1945.07 | 0 | 0 | 0 | 0 | 0 | 0 | -1965.6 | -1965.6 |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | -39.4 | -39.4 | 1 | 17085.7 | 72.0 | 32   | 95.65 | 0 | -5.27 | 0 | 0 | 0.55    | 0 | 0 | 0 | 0 | 0 | 0 | -130.3  | -130.3  |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 83.6  | 83.6  | 1 | 17085.7 | 72.0 | 63   | 95.65 | 0 | -5.27 | 0 | 0 | 2.08    | 0 | 0 | 0 | 0 | 0 | 0 | -8.9    | -8.9    |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 91.7  | 91.7  | 1 | 17085.7 | 72.0 | 125  | 95.65 | 0 | 1.1   | 0 | 0 | 7.02    | 0 | 0 | 0 | 0 | 0 | 0 | -12.1   | -12.1   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 98.7  | 98.7  | 1 | 17085.7 | 72.0 | 250  | 95.65 | 0 | -0.61 | 0 | 0 | 17.83   | 0 | 0 | 0 | 0 | 0 | 0 | -14.2   | -14.2   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 100.8 | 100.8 | 1 | 17085.7 | 72.0 | 500  | 95.65 | 0 | -1.58 | 0 | 0 | 32.94   | 0 | 0 | 0 | 0 | 0 | 0 | -26.2   | -26.2   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 98.3  | 98.3  | 1 | 17085.7 | 72.0 | 1000 | 95.65 | 0 | -1.58 | 0 | 0 | 62.49   | 0 | 0 | 0 | 0 | 0 | 0 | -58.3   | -58.3   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 92.8  | 92.8  | 1 | 17085.7 | 72.0 | 2000 | 95.65 | 0 | -1.58 | 0 | 0 | 165.11  | 0 | 0 | 0 | 0 | 0 | 0 | -166.4  | -166.4  |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 85.9  | 85.9  | 1 | 17085.7 | 72.0 | 4000 | 95.65 | 0 | -1.58 | 0 | 0 | 559.9   | 0 | 0 | 0 | 0 | 0 | 0 | -568.1  | -568.1  |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 73.3  | 73.3  | 1 | 17085.7 | 72.0 | 8000 | 95.65 | 0 | -1.58 | 0 | 0 | 1997.01 | 0 | 0 | 0 | 0 | 0 | 0 | -2017.8 | -2017.8 |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17354.0 | 72.8 | 32   | 95.79 | 0 | -5.28 | 0 | 0 | 0.56    | 0 | 0 | 0 | 0 | 0 | 0 | -130.5  | -130.5  |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17354.0 | 72.8 | 63   | 95.79 | 0 | -5.28 | 0 | 0 | 2.11    | 0 | 0 | 0 | 0 | 0 | 0 | -9.0    | -9.0    |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17354.0 | 72.8 | 125  | 95.79 | 0 | 1.1   | 0 | 0 | 7.13    | 0 | 0 | 0 | 0 | 0 | 0 | -12.3   | -12.3   |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17354.0 | 72.8 | 250  | 95.79 | 0 | -0.61 | 0 | 0 | 18.11   | 0 | 0 | 0 | 0 | 0 | 0 | -14.6   | -14.6   |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17354.0 | 72.8 | 500  | 95.79 | 0 | -1.58 | 0 | 0 | 33.46   | 0 | 0 | 0 | 0 | 0 | 0 | -26.9   | -26.9   |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17354.0 | 72.8 | 1000 | 95.79 | 0 | -1.58 | 0 | 0 | 63.48   | 0 | 0 | 0 | 0 | 0 | 0 | -59.4   | -59.4   |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17354.0 | 72.8 | 2000 | 95.79 | 0 | -1.58 | 0 | 0 | 167.71  | 0 | 0 | 0 | 0 | 0 | 0 | -169.1  | -169.1  |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |      |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|------|---|---------|---|---|---|---|---|---|---------|---------|
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17354.0 | 72.8 | 4000 | 95.79 | 0 | -1.58 | 0    | 0 | 568.69  | 0 | 0 | 0 | 0 | 0 | 0 | -577.0  | -577.0  |
| T55 | 623610.33 | 4764393.4  | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17354.0 | 72.8 | 8000 | 95.79 | 0 | -1.58 | 0    | 0 | 2028.37 | 0 | 0 | 0 | 0 | 0 | 0 | -2049.3 | -2049.3 |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17437.2 | 72.6 | 32   | 95.83 | 0 | -5.28 | 0    | 0 | 0.56    | 0 | 0 | 0 | 0 | 0 | 0 | -130.5  | -130.5  |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17437.2 | 72.6 | 63   | 95.83 | 0 | -5.28 | 0    | 0 | 2.12    | 0 | 0 | 0 | 0 | 0 | 0 | -9.1    | -9.1    |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17437.2 | 72.6 | 125  | 95.83 | 0 | 1.1   | 0    | 0 | 7.17    | 0 | 0 | 0 | 0 | 0 | 0 | -12.4   | -12.4   |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17437.2 | 72.6 | 250  | 95.83 | 0 | -0.61 | 0    | 0 | 18.19   | 0 | 0 | 0 | 0 | 0 | 0 | -14.7   | -14.7   |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17437.2 | 72.6 | 500  | 95.83 | 0 | -1.58 | 0    | 0 | 33.62   | 0 | 0 | 0 | 0 | 0 | 0 | -27.1   | -27.1   |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17437.2 | 72.6 | 1000 | 95.83 | 0 | -1.58 | 0    | 0 | 63.78   | 0 | 0 | 0 | 0 | 0 | 0 | -59.7   | -59.7   |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17437.2 | 72.6 | 2000 | 95.83 | 0 | -1.58 | 0    | 0 | 168.51  | 0 | 0 | 0 | 0 | 0 | 0 | -170.0  | -170.0  |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17437.2 | 72.6 | 4000 | 95.83 | 0 | -1.58 | 0    | 0 | 571.42  | 0 | 0 | 0 | 0 | 0 | 0 | -579.8  | -579.8  |
| T07 | 618635.59 | 4764052.89 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17437.2 | 72.6 | 8000 | 95.83 | 0 | -1.58 | 0    | 0 | 2038.1  | 0 | 0 | 0 | 0 | 0 | 0 | -2059.0 | -2059.0 |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17478.4 | 73.2 | 32   | 95.85 | 0 | -5.28 | 0    | 0 | 0.56    | 0 | 0 | 0 | 0 | 0 | 0 | -130.5  | -130.5  |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17478.4 | 73.2 | 63   | 95.85 | 0 | -5.28 | 0    | 0 | 2.13    | 0 | 0 | 0 | 0 | 0 | 0 | -9.1    | -9.1    |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17478.4 | 73.2 | 125  | 95.85 | 0 | 1.1   | 0    | 0 | 7.18    | 0 | 0 | 0 | 0 | 0 | 0 | -12.4   | -12.4   |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17478.4 | 73.2 | 250  | 95.85 | 0 | -0.61 | 0    | 0 | 18.24   | 0 | 0 | 0 | 0 | 0 | 0 | -14.8   | -14.8   |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17478.4 | 73.2 | 500  | 95.85 | 0 | -1.58 | 0    | 0 | 33.7    | 0 | 0 | 0 | 0 | 0 | 0 | -27.2   | -27.2   |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17478.4 | 73.2 | 1000 | 95.85 | 0 | -1.58 | 0    | 0 | 63.93   | 0 | 0 | 0 | 0 | 0 | 0 | -59.9   | -59.9   |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17478.4 | 73.2 | 2000 | 95.85 | 0 | -1.58 | 0    | 0 | 168.91  | 0 | 0 | 0 | 0 | 0 | 0 | -170.4  | -170.4  |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17478.4 | 73.2 | 4000 | 95.85 | 0 | -1.58 | 0    | 0 | 572.77  | 0 | 0 | 0 | 0 | 0 | 0 | -581.1  | -581.1  |
| T32 | 624780.53 | 4764409.82 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17478.4 | 73.2 | 8000 | 95.85 | 0 | -1.58 | 0    | 0 | 2042.91 | 0 | 0 | 0 | 0 | 0 | 0 | -2063.9 | -2063.9 |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17516.4 | 72.1 | 32   | 95.87 | 0 | -5.28 | 0    | 0 | 0.56    | 0 | 0 | 0 | 0 | 0 | 0 | -130.6  | -130.6  |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17516.4 | 72.1 | 63   | 95.87 | 0 | -5.28 | 0    | 0 | 2.13    | 0 | 0 | 0 | 0 | 0 | 0 | -9.1    | -9.1    |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17516.4 | 72.1 | 125  | 95.87 | 0 | 1.1   | 0    | 0 | 7.2     | 0 | 0 | 0 | 0 | 0 | 0 | -12.5   | -12.5   |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17516.4 | 72.1 | 250  | 95.87 | 0 | -0.61 | 0    | 0 | 18.28   | 0 | 0 | 0 | 0 | 0 | 0 | -14.8   | -14.8   |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17516.4 | 72.1 | 500  | 95.87 | 0 | -1.58 | 0    | 0 | 33.77   | 0 | 0 | 0 | 0 | 0 | 0 | -27.3   | -27.3   |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17516.4 | 72.1 | 1000 | 95.87 | 0 | -1.58 | 0    | 0 | 64.07   | 0 | 0 | 0 | 0 | 0 | 0 | -60.1   | -60.1   |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17516.4 | 72.1 | 2000 | 95.87 | 0 | -1.58 | 0    | 0 | 169.28  | 0 | 0 | 0 | 0 | 0 | 0 | -170.8  | -170.8  |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17516.4 | 72.1 | 4000 | 95.87 | 0 | -1.58 | 0    | 0 | 574.01  | 0 | 0 | 0 | 0 | 0 | 0 | -582.4  | -582.4  |
| T75 | 621356.89 | 4764542.57 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17516.4 | 72.1 | 8000 | 95.87 | 0 | -1.58 | 0    | 0 | 2047.35 | 0 | 0 | 0 | 0 | 0 | 0 | -2068.3 | -2068.3 |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 50.6  | 50.6  | 1 | 14671.5 | 6.4  | 32   | 94.33 | 0 | -5.95 | 4.77 | 0 | 0.47    | 0 | 0 | 0 | 0 | 0 | 0 | -43.0   | -43.0   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 72.8  | 72.8  | 1 | 14671.5 | 6.4  | 63   | 94.33 | 0 | -5.95 | 4.77 | 0 | 1.79    | 0 | 0 | 0 | 0 | 0 | 0 | -22.1   | -22.1   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 87.9  | 87.9  | 1 | 14671.5 | 6.4  | 125  | 94.33 | 0 | 3.78  | 0.99 | 0 | 6.03    | 0 | 0 | 0 | 0 | 0 | 0 | -17.2   | -17.2   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 94.4  | 94.4  | 1 | 14671.5 | 6.4  | 250  | 94.33 | 0 | 0.94  | 3.83 | 0 | 15.31   | 0 | 0 | 0 | 0 | 0 | 0 | -20.0   | -20.0   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 99.8  | 99.8  | 1 | 14671.5 | 6.4  | 500  | 94.33 | 0 | -1.77 | 4.77 | 0 | 28.28   | 0 | 0 | 0 | 0 | 0 | 0 | -25.8   | -25.8   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 97.0  | 97.0  | 1 | 14671.5 | 6.4  | 1000 | 94.33 | 0 | -1.78 | 4.77 | 0 | 53.66   | 0 | 0 | 0 | 0 | 0 | 0 | -54.0   | -54.0   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 93.2  | 93.2  | 1 | 14671.5 | 6.4  | 2000 | 94.33 | 0 | -1.78 | 4.77 | 0 | 141.78  | 0 | 0 | 0 | 0 | 0 | 0 | -145.9  | -145.9  |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 88.0  | 88.0  | 1 | 14671.5 | 6.4  | 4000 | 94.33 | 0 | -1.78 | 4.77 | 0 | 480.79  | 0 | 0 | 0 | 0 | 0 | 0 | -490.1  | -490.1  |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 78.9  | 78.9  | 1 | 14671.5 | 6.4  | 8000 | 94.33 | 0 | -1.78 | 4.77 | 0 | 1714.83 | 0 | 0 | 0 | 0 | 0 | 0 | -1733.3 | -1733.3 |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17950.2 | 71.7 | 32   | 96.08 | 0 | -5.3  | 0    | 0 | 0.57    | 0 | 0 | 0 | 0 | 0 | 0 | -130.8  | -130.8  |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17950.2 | 71.7 | 63   | 96.08 | 0 | -5.3  | 0    | 0 | 2.18    | 0 | 0 | 0 | 0 | 0 | 0 | -9.4    | -9.4    |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17950.2 | 71.7 | 125  | 96.08 | 0 | 1.09  | 0    | 0 | 7.38    | 0 | 0 | 0 | 0 | 0 | 0 | -12.9   | -12.9   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17950.2 | 71.7 | 250  | 96.08 | 0 | -0.62 | 0    | 0 | 18.73   | 0 | 0 | 0 | 0 | 0 | 0 | -15.5   | -15.5   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17950.2 | 71.7 | 500  | 96.08 | 0 | -1.59 | 0    | 0 | 34.61   | 0 | 0 | 0 | 0 | 0 | 0 | -28.3   | -28.3   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17950.2 | 71.7 | 1000 | 96.08 | 0 | -1.59 | 0    | 0 | 65.66   | 0 | 0 | 0 | 0 | 0 | 0 | -61.9   | -61.9   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17950.2 | 71.7 | 2000 | 96.08 | 0 | -1.59 | 0    | 0 | 173.47  | 0 | 0 | 0 | 0 | 0 | 0 | -175.2  | -175.2  |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17950.2 | 71.7 | 4000 | 96.08 | 0 | -1.59 | 0    | 0 | 588.23  | 0 | 0 | 0 | 0 | 0 | 0 | -596.8  | -596.8  |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17950.2 | 71.7 | 8000 | 96.08 | 0 | -1.59 | 0    | 0 | 2098.06 | 0 | 0 | 0 | 0 | 0 | 0 | -2119.3 | -2119.3 |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17989.7 | 72.3 | 32   | 96.1  | 0 | -5.3  | 0 | 0 | 0.58    | 0 | 0 | 0 | 0 | 0 | 0 | -130.8  | -130.8  |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17989.7 | 72.3 | 63   | 96.1  | 0 | -5.3  | 0 | 0 | 2.19    | 0 | 0 | 0 | 0 | 0 | 0 | -9.4    | -9.4    |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17989.7 | 72.3 | 125  | 96.1  | 0 | 1.09  | 0 | 0 | 7.39    | 0 | 0 | 0 | 0 | 0 | 0 | -12.9   | -12.9   |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17989.7 | 72.3 | 250  | 96.1  | 0 | -0.62 | 0 | 0 | 18.77   | 0 | 0 | 0 | 0 | 0 | 0 | -15.6   | -15.6   |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17989.7 | 72.3 | 500  | 96.1  | 0 | -1.59 | 0 | 0 | 34.68   | 0 | 0 | 0 | 0 | 0 | 0 | -28.4   | -28.4   |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17989.7 | 72.3 | 1000 | 96.1  | 0 | -1.59 | 0 | 0 | 65.8    | 0 | 0 | 0 | 0 | 0 | 0 | -62.0   | -62.0   |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17989.7 | 72.3 | 2000 | 96.1  | 0 | -1.59 | 0 | 0 | 173.85  | 0 | 0 | 0 | 0 | 0 | 0 | -175.6  | -175.6  |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17989.7 | 72.3 | 4000 | 96.1  | 0 | -1.59 | 0 | 0 | 589.52  | 0 | 0 | 0 | 0 | 0 | 0 | -598.1  | -598.1  |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17989.7 | 72.3 | 8000 | 96.1  | 0 | -1.59 | 0 | 0 | 2102.67 | 0 | 0 | 0 | 0 | 0 | 0 | -2123.9 | -2123.9 |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18004.7 | 71.9 | 32   | 96.11 | 0 | -5.3  | 0 | 0 | 0.58    | 0 | 0 | 0 | 0 | 0 | 0 | -130.8  | -130.8  |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18004.7 | 71.9 | 63   | 96.11 | 0 | -5.3  | 0 | 0 | 2.19    | 0 | 0 | 0 | 0 | 0 | 0 | -9.4    | -9.4    |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18004.7 | 71.9 | 125  | 96.11 | 0 | 1.09  | 0 | 0 | 7.4     | 0 | 0 | 0 | 0 | 0 | 0 | -12.9   | -12.9   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18004.7 | 71.9 | 250  | 96.11 | 0 | -0.62 | 0 | 0 | 18.79   | 0 | 0 | 0 | 0 | 0 | 0 | -15.6   | -15.6   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18004.7 | 71.9 | 500  | 96.11 | 0 | -1.59 | 0 | 0 | 34.71   | 0 | 0 | 0 | 0 | 0 | 0 | -28.4   | -28.4   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18004.7 | 71.9 | 1000 | 96.11 | 0 | -1.59 | 0 | 0 | 65.86   | 0 | 0 | 0 | 0 | 0 | 0 | -62.1   | -62.1   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18004.7 | 71.9 | 2000 | 96.11 | 0 | -1.59 | 0 | 0 | 174     | 0 | 0 | 0 | 0 | 0 | 0 | -175.7  | -175.7  |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18004.7 | 71.9 | 4000 | 96.11 | 0 | -1.59 | 0 | 0 | 590.01  | 0 | 0 | 0 | 0 | 0 | 0 | -598.6  | -598.6  |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18004.7 | 71.9 | 8000 | 96.11 | 0 | -1.59 | 0 | 0 | 2104.42 | 0 | 0 | 0 | 0 | 0 | 0 | -2125.6 | -2125.6 |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18060.5 | 72.7 | 32   | 96.13 | 0 | -5.3  | 0 | 0 | 0.58    | 0 | 0 | 0 | 0 | 0 | 0 | -130.8  | -130.8  |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18060.5 | 72.7 | 63   | 96.13 | 0 | -5.3  | 0 | 0 | 2.2     | 0 | 0 | 0 | 0 | 0 | 0 | -9.4    | -9.4    |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18060.5 | 72.7 | 125  | 96.13 | 0 | 1.09  | 0 | 0 | 7.42    | 0 | 0 | 0 | 0 | 0 | 0 | -13.0   | -13.0   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18060.5 | 72.7 | 250  | 96.13 | 0 | -0.62 | 0 | 0 | 18.84   | 0 | 0 | 0 | 0 | 0 | 0 | -15.7   | -15.7   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18060.5 | 72.7 | 500  | 96.13 | 0 | -1.59 | 0 | 0 | 34.82   | 0 | 0 | 0 | 0 | 0 | 0 | -28.6   | -28.6   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18060.5 | 72.7 | 1000 | 96.13 | 0 | -1.59 | 0 | 0 | 66.06   | 0 | 0 | 0 | 0 | 0 | 0 | -62.3   | -62.3   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18060.5 | 72.7 | 2000 | 96.13 | 0 | -1.59 | 0 | 0 | 174.54  | 0 | 0 | 0 | 0 | 0 | 0 | -176.3  | -176.3  |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18060.5 | 72.7 | 4000 | 96.13 | 0 | -1.59 | 0 | 0 | 591.84  | 0 | 0 | 0 | 0 | 0 | 0 | -600.5  | -600.5  |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18060.5 | 72.7 | 8000 | 96.13 | 0 | -1.59 | 0 | 0 | 2110.95 | 0 | 0 | 0 | 0 | 0 | 0 | -2132.2 | -2132.2 |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18679.6 | 72.6 | 32   | 96.43 | 0 | -5.33 | 0 | 0 | 0.6     | 0 | 0 | 0 | 0 | 0 | 0 | -131.1  | -131.1  |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18679.6 | 72.6 | 63   | 96.43 | 0 | -5.33 | 0 | 0 | 2.27    | 0 | 0 | 0 | 0 | 0 | 0 | -9.8    | -9.8    |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18679.6 | 72.6 | 125  | 96.43 | 0 | 1.08  | 0 | 0 | 7.68    | 0 | 0 | 0 | 0 | 0 | 0 | -13.5   | -13.5   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18679.6 | 72.6 | 250  | 96.43 | 0 | -0.63 | 0 | 0 | 19.49   | 0 | 0 | 0 | 0 | 0 | 0 | -16.6   | -16.6   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18679.6 | 72.6 | 500  | 96.43 | 0 | -1.6  | 0 | 0 | 36.01   | 0 | 0 | 0 | 0 | 0 | 0 | -30.0   | -30.0   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18679.6 | 72.6 | 1000 | 96.43 | 0 | -1.6  | 0 | 0 | 68.32   | 0 | 0 | 0 | 0 | 0 | 0 | -64.9   | -64.9   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18679.6 | 72.6 | 2000 | 96.43 | 0 | -1.6  | 0 | 0 | 180.52  | 0 | 0 | 0 | 0 | 0 | 0 | -182.6  | -182.6  |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18679.6 | 72.6 | 4000 | 96.43 | 0 | -1.6  | 0 | 0 | 612.13  | 0 | 0 | 0 | 0 | 0 | 0 | -621.1  | -621.1  |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18679.6 | 72.6 | 8000 | 96.43 | 0 | -1.6  | 0 | 0 | 2183.3  | 0 | 0 | 0 | 0 | 0 | 0 | -2204.8 | -2204.8 |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | -39.4 | -39.4 | 1 | 18680.0 | 73.5 | 32   | 96.43 | 0 | -5.33 | 0 | 0 | 0.6     | 0 | 0 | 0 | 0 | 0 | 0 | -131.1  | -131.1  |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 83.6  | 83.6  | 1 | 18680.0 | 73.5 | 63   | 96.43 | 0 | -5.33 | 0 | 0 | 2.27    | 0 | 0 | 0 | 0 | 0 | 0 | -9.8    | -9.8    |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 91.7  | 91.7  | 1 | 18680.0 | 73.5 | 125  | 96.43 | 0 | 1.08  | 0 | 0 | 7.68    | 0 | 0 | 0 | 0 | 0 | 0 | -13.5   | -13.5   |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 98.7  | 98.7  | 1 | 18680.0 | 73.5 | 250  | 96.43 | 0 | -0.63 | 0 | 0 | 19.49   | 0 | 0 | 0 | 0 | 0 | 0 | -16.6   | -16.6   |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 100.8 | 100.8 | 1 | 18680.0 | 73.5 | 500  | 96.43 | 0 | -1.6  | 0 | 0 | 36.01   | 0 | 0 | 0 | 0 | 0 | 0 | -30.0   | -30.0   |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 98.3  | 98.3  | 1 | 18680.0 | 73.5 | 1000 | 96.43 | 0 | -1.6  | 0 | 0 | 68.33   | 0 | 0 | 0 | 0 | 0 | 0 | -64.9   | -64.9   |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 92.8  | 92.8  | 1 | 18680.0 | 73.5 | 2000 | 96.43 | 0 | -1.6  | 0 | 0 | 180.52  | 0 | 0 | 0 | 0 | 0 | 0 | -182.6  | -182.6  |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 85.9  | 85.9  | 1 | 18680.0 | 73.5 | 4000 | 96.43 | 0 | -1.6  | 0 | 0 | 612.14  | 0 | 0 | 0 | 0 | 0 | 0 | -621.1  | -621.1  |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 73.3  | 73.3  | 1 | 18680.0 | 73.5 | 8000 | 96.43 | 0 | -1.6  | 0 | 0 | 2183.35 | 0 | 0 | 0 | 0 | 0 | 0 | -2204.9 | -2204.9 |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18699.8 | 71.9 | 32   | 96.44 | 0 | -5.33 | 0 | 0 | 0.6     | 0 | 0 | 0 | 0 | 0 | 0 | -131.1  | -131.1  |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18699.8 | 71.9 | 63   | 96.44 | 0 | -5.33 | 0 | 0 | 2.28    | 0 | 0 | 0 | 0 | 0 | 0 | -9.8    | -9.8    |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18699.8 | 71.9 | 125  | 96.44 | 0 | 1.08  | 0 | 0 | 7.68    | 0 | 0 | 0 | 0 | 0 | 0 | -13.5   | -13.5   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18699.8 | 71.9 | 250  | 96.44 | 0 | -0.63 | 0 | 0 | 19.51   | 0 | 0 | 0 | 0 | 0 | 0 | -16.6   | -16.6   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18699.8 | 71.9 | 500  | 96.44 | 0 | -1.6  | 0 | 0 | 36.05   | 0 | 0 | 0 | 0 | 0 | 0 | -30.1   | -30.1   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18699.8 | 71.9 | 1000 | 96.44 | 0 | -1.6  | 0 | 0 | 68.4    | 0 | 0 | 0 | 0 | 0 | 0 | -64.9   | -64.9   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18699.8 | 71.9 | 2000 | 96.44 | 0 | -1.6  | 0 | 0 | 180.71  | 0 | 0 | 0 | 0 | 0 | 0 | -182.8  | -182.8  |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18699.8 | 71.9 | 4000 | 96.44 | 0 | -1.6  | 0 | 0 | 612.8   | 0 | 0 | 0 | 0 | 0 | 0 | -621.7  | -621.7  |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18699.8 | 71.9 | 8000 | 96.44 | 0 | -1.6  | 0 | 0 | 2185.67 | 0 | 0 | 0 | 0 | 0 | 0 | -2207.2 | -2207.2 |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18712.2 | 71.6 | 32   | 96.44 | 0 | -5.33 | 0 | 0 | 0.6     | 0 | 0 | 0 | 0 | 0 | 0 | -131.1  | -131.1  |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18712.2 | 71.6 | 63   | 96.44 | 0 | -5.33 | 0 | 0 | 2.28    | 0 | 0 | 0 | 0 | 0 | 0 | -9.8    | -9.8    |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18712.2 | 71.6 | 125  | 96.44 | 0 | 1.08  | 0 | 0 | 7.69    | 0 | 0 | 0 | 0 | 0 | 0 | -13.5   | -13.5   |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18712.2 | 71.6 | 250  | 96.44 | 0 | -0.63 | 0 | 0 | 19.52   | 0 | 0 | 0 | 0 | 0 | 0 | -16.6   | -16.6   |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18712.2 | 71.6 | 500  | 96.44 | 0 | -1.6  | 0 | 0 | 36.07   | 0 | 0 | 0 | 0 | 0 | 0 | -30.1   | -30.1   |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18712.2 | 71.6 | 1000 | 96.44 | 0 | -1.6  | 0 | 0 | 68.44   | 0 | 0 | 0 | 0 | 0 | 0 | -65.0   | -65.0   |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18712.2 | 71.6 | 2000 | 96.44 | 0 | -1.6  | 0 | 0 | 180.83  | 0 | 0 | 0 | 0 | 0 | 0 | -182.9  | -182.9  |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18712.2 | 71.6 | 4000 | 96.44 | 0 | -1.6  | 0 | 0 | 613.2   | 0 | 0 | 0 | 0 | 0 | 0 | -622.1  | -622.1  |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18712.2 | 71.6 | 8000 | 96.44 | 0 | -1.6  | 0 | 0 | 2187.12 | 0 | 0 | 0 | 0 | 0 | 0 | -2208.7 | -2208.7 |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18780.5 | 71.8 | 32   | 96.47 | 0 | -5.33 | 0 | 0 | 0.6     | 0 | 0 | 0 | 0 | 0 | 0 | -131.1  | -131.1  |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18780.5 | 71.8 | 63   | 96.47 | 0 | -5.33 | 0 | 0 | 2.29    | 0 | 0 | 0 | 0 | 0 | 0 | -9.8    | -9.8    |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18780.5 | 71.8 | 125  | 96.47 | 0 | 1.08  | 0 | 0 | 7.72    | 0 | 0 | 0 | 0 | 0 | 0 | -13.6   | -13.6   |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18780.5 | 71.8 | 250  | 96.47 | 0 | -0.63 | 0 | 0 | 19.6    | 0 | 0 | 0 | 0 | 0 | 0 | -16.7   | -16.7   |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18780.5 | 71.8 | 500  | 96.47 | 0 | -1.6  | 0 | 0 | 36.21   | 0 | 0 | 0 | 0 | 0 | 0 | -30.3   | -30.3   |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18780.5 | 71.8 | 1000 | 96.47 | 0 | -1.6  | 0 | 0 | 68.69   | 0 | 0 | 0 | 0 | 0 | 0 | -65.3   | -65.3   |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18780.5 | 71.8 | 2000 | 96.47 | 0 | -1.6  | 0 | 0 | 181.49  | 0 | 0 | 0 | 0 | 0 | 0 | -183.6  | -183.6  |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18780.5 | 71.8 | 4000 | 96.47 | 0 | -1.6  | 0 | 0 | 615.44  | 0 | 0 | 0 | 0 | 0 | 0 | -624.4  | -624.4  |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18780.5 | 71.8 | 8000 | 96.47 | 0 | -1.6  | 0 | 0 | 2195.1  | 0 | 0 | 0 | 0 | 0 | 0 | -2216.7 | -2216.7 |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 18925.7 | 75.2 | 32   | 96.54 | 0 | -5.34 | 0 | 0 | 0.61    | 0 | 0 | 0 | 0 | 0 | 0 | -131.2  | -131.2  |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 18925.7 | 75.2 | 63   | 96.54 | 0 | -5.34 | 0 | 0 | 2.3     | 0 | 0 | 0 | 0 | 0 | 0 | -9.9    | -9.9    |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 18925.7 | 75.2 | 125  | 96.54 | 0 | 1.08  | 0 | 0 | 7.78    | 0 | 0 | 0 | 0 | 0 | 0 | -13.7   | -13.7   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 18925.7 | 75.2 | 250  | 96.54 | 0 | -0.63 | 0 | 0 | 19.75   | 0 | 0 | 0 | 0 | 0 | 0 | -17.0   | -17.0   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 18925.7 | 75.2 | 500  | 96.54 | 0 | -1.6  | 0 | 0 | 36.49   | 0 | 0 | 0 | 0 | 0 | 0 | -30.6   | -30.6   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 18925.7 | 75.2 | 1000 | 96.54 | 0 | -1.6  | 0 | 0 | 69.22   | 0 | 0 | 0 | 0 | 0 | 0 | -65.9   | -65.9   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 18925.7 | 75.2 | 2000 | 96.54 | 0 | -1.6  | 0 | 0 | 182.9   | 0 | 0 | 0 | 0 | 0 | 0 | -185.0  | -185.0  |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 18925.7 | 75.2 | 4000 | 96.54 | 0 | -1.6  | 0 | 0 | 620.2   | 0 | 0 | 0 | 0 | 0 | 0 | -629.2  | -629.2  |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 18925.7 | 75.2 | 8000 | 96.54 | 0 | -1.6  | 0 | 0 | 2212.07 | 0 | 0 | 0 | 0 | 0 | 0 | -2233.7 | -2233.7 |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 15995.0 | 70.4 | 32   | 95.08 | 0 | -5.22 | 0 | 0 | 0.51    | 0 | 0 | 0 | 0 | 0 | 0 | -129.8  | -129.8  |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 86.6  | 86.6  | 1 | 15995.0 | 70.4 | 63   | 95.08 | 0 | -5.22 | 0 | 0 | 1.95    | 0 | 0 | 0 | 0 | 0 | 0 | -5.2    | -5.2    |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 94.7  | 94.7  | 1 | 15995.0 | 70.4 | 125  | 95.08 | 0 | 1.12  | 0 | 0 | 6.57    | 0 | 0 | 0 | 0 | 0 | 0 | -8.1    | -8.1    |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 94.4  | 94.4  | 1 | 15995.0 | 70.4 | 250  | 95.08 | 0 | -0.59 | 0 | 0 | 16.69   | 0 | 0 | 0 | 0 | 0 | 0 | -16.8   | -16.8   |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 97.3  | 97.3  | 1 | 15995.0 | 70.4 | 500  | 95.08 | 0 | -1.56 | 0 | 0 | 30.84   | 0 | 0 | 0 | 0 | 0 | 0 | -27.1   | -27.1   |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 15995.0 | 70.4 | 1000 | 95.08 | 0 | -1.56 | 0 | 0 | 58.5    | 0 | 0 | 0 | 0 | 0 | 0 | -53.3   | -53.3   |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 93.8  | 93.8  | 1 | 15995.0 | 70.4 | 2000 | 95.08 | 0 | -1.56 | 0 | 0 | 154.57  | 0 | 0 | 0 | 0 | 0 | 0 | -154.3  | -154.3  |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 81.5  | 81.5  | 1 | 15995.0 | 70.4 | 4000 | 95.08 | 0 | -1.56 | 0 | 0 | 524.16  | 0 | 0 | 0 | 0 | 0 | 0 | -536.2  | -536.2  |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 73.4  | 73.4  | 1 | 15995.0 | 70.4 | 8000 | 95.08 | 0 | -1.56 | 0 | 0 | 1869.53 | 0 | 0 | 0 | 0 | 0 | 0 | -1889.6 | -1889.6 |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | -39.4 | -39.4 | 1 | 19334.1 | 73.5 | 32   | 96.73 | 0 | -5.35 | 0 | 0 | 0.62    | 0 | 0 | 0 | 0 | 0 | 0 | -131.4  | -131.4  |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 83.6  | 83.6  | 1 | 19334.1 | 73.5 | 63   | 96.73 | 0 | -5.35 | 0 | 0 | 2.35    | 0 | 0 | 0 | 0 | 0 | 0 | -10.1   | -10.1   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 91.7  | 91.7  | 1 | 19334.1 | 73.5 | 125  | 96.73 | 0 | 1.08  | 0 | 0 | 7.95    | 0 | 0 | 0 | 0 | 0 | 0 | -14.1   | -14.1   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 98.7  | 98.7  | 1 | 19334.1 | 73.5 | 250  | 96.73 | 0 | -0.63 | 0 | 0 | 20.17   | 0 | 0 | 0 | 0 | 0 | 0 | -17.6   | -17.6   |



|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---------|---------|
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 100.8 | 100.8 | 1 | 19334.1 | 73.5 | 500  | 96.73 | 0 | -1.6  | 0 | 0 | 37.27   | 0 | 0 | 0 | 0 | 0 | -31.6   | -31.6   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 98.3  | 98.3  | 1 | 19334.1 | 73.5 | 1000 | 96.73 | 0 | -1.61 | 0 | 0 | 70.72   | 0 | 0 | 0 | 0 | 0 | -67.5   | -67.5   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 92.8  | 92.8  | 1 | 19334.1 | 73.5 | 2000 | 96.73 | 0 | -1.61 | 0 | 0 | 186.84  | 0 | 0 | 0 | 0 | 0 | -189.2  | -189.2  |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 85.9  | 85.9  | 1 | 19334.1 | 73.5 | 4000 | 96.73 | 0 | -1.61 | 0 | 0 | 633.58  | 0 | 0 | 0 | 0 | 0 | -642.8  | -642.8  |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 73.3  | 73.3  | 1 | 19334.1 | 73.5 | 8000 | 96.73 | 0 | -1.61 | 0 | 0 | 2259.81 | 0 | 0 | 0 | 0 | 0 | -2281.6 | -2281.6 |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 19382.4 | 73.9 | 32   | 96.75 | 0 | -5.35 | 0 | 0 | 0.62    | 0 | 0 | 0 | 0 | 0 | -131.4  | -131.4  |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 19382.4 | 73.9 | 63   | 96.75 | 0 | -5.35 | 0 | 0 | 2.36    | 0 | 0 | 0 | 0 | 0 | -10.2   | -10.2   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 19382.4 | 73.9 | 125  | 96.75 | 0 | 1.08  | 0 | 0 | 7.96    | 0 | 0 | 0 | 0 | 0 | -14.1   | -14.1   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 19382.4 | 73.9 | 250  | 96.75 | 0 | -0.63 | 0 | 0 | 20.22   | 0 | 0 | 0 | 0 | 0 | -17.6   | -17.6   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 19382.4 | 73.9 | 500  | 96.75 | 0 | -1.6  | 0 | 0 | 37.37   | 0 | 0 | 0 | 0 | 0 | -31.7   | -31.7   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 19382.4 | 73.9 | 1000 | 96.75 | 0 | -1.61 | 0 | 0 | 70.89   | 0 | 0 | 0 | 0 | 0 | -67.7   | -67.7   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 19382.4 | 73.9 | 2000 | 96.75 | 0 | -1.61 | 0 | 0 | 187.31  | 0 | 0 | 0 | 0 | 0 | -189.7  | -189.7  |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 19382.4 | 73.9 | 4000 | 96.75 | 0 | -1.61 | 0 | 0 | 635.16  | 0 | 0 | 0 | 0 | 0 | -644.4  | -644.4  |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 19382.4 | 73.9 | 8000 | 96.75 | 0 | -1.61 | 0 | 0 | 2265.46 | 0 | 0 | 0 | 0 | 0 | -2287.3 | -2287.3 |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 19471.5 | 73.8 | 32   | 96.79 | 0 | -5.36 | 0 | 0 | 0.62    | 0 | 0 | 0 | 0 | 0 | -131.5  | -131.5  |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 19471.5 | 73.8 | 63   | 96.79 | 0 | -5.36 | 0 | 0 | 2.37    | 0 | 0 | 0 | 0 | 0 | -10.2   | -10.2   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 19471.5 | 73.8 | 125  | 96.79 | 0 | 1.08  | 0 | 0 | 8       | 0 | 0 | 0 | 0 | 0 | -14.2   | -14.2   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 19471.5 | 73.8 | 250  | 96.79 | 0 | -0.63 | 0 | 0 | 20.32   | 0 | 0 | 0 | 0 | 0 | -17.8   | -17.8   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 19471.5 | 73.8 | 500  | 96.79 | 0 | -1.61 | 0 | 0 | 37.54   | 0 | 0 | 0 | 0 | 0 | -31.9   | -31.9   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 19471.5 | 73.8 | 1000 | 96.79 | 0 | -1.61 | 0 | 0 | 71.22   | 0 | 0 | 0 | 0 | 0 | -68.1   | -68.1   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 19471.5 | 73.8 | 2000 | 96.79 | 0 | -1.61 | 0 | 0 | 188.17  | 0 | 0 | 0 | 0 | 0 | -190.6  | -190.6  |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 19471.5 | 73.8 | 4000 | 96.79 | 0 | -1.61 | 0 | 0 | 638.08  | 0 | 0 | 0 | 0 | 0 | -647.4  | -647.4  |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 19471.5 | 73.8 | 8000 | 96.79 | 0 | -1.61 | 0 | 0 | 2275.87 | 0 | 0 | 0 | 0 | 0 | -2297.8 | -2297.8 |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | -39.4 | -39.4 | 1 | 19571.1 | 72.4 | 32   | 96.83 | 0 | -5.36 | 0 | 0 | 0.63    | 0 | 0 | 0 | 0 | 0 | -131.5  | -131.5  |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 83.6  | 83.6  | 1 | 19571.1 | 72.4 | 63   | 96.83 | 0 | -5.36 | 0 | 0 | 2.38    | 0 | 0 | 0 | 0 | 0 | -10.3   | -10.3   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 91.7  | 91.7  | 1 | 19571.1 | 72.4 | 125  | 96.83 | 0 | 1.08  | 0 | 0 | 8.04    | 0 | 0 | 0 | 0 | 0 | -14.3   | -14.3   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 98.7  | 98.7  | 1 | 19571.1 | 72.4 | 250  | 96.83 | 0 | -0.63 | 0 | 0 | 20.42   | 0 | 0 | 0 | 0 | 0 | -17.9   | -17.9   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 100.8 | 100.8 | 1 | 19571.1 | 72.4 | 500  | 96.83 | 0 | -1.61 | 0 | 0 | 37.73   | 0 | 0 | 0 | 0 | 0 | -32.2   | -32.2   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 98.3  | 98.3  | 1 | 19571.1 | 72.4 | 1000 | 96.83 | 0 | -1.61 | 0 | 0 | 71.59   | 0 | 0 | 0 | 0 | 0 | -68.5   | -68.5   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 92.8  | 92.8  | 1 | 19571.1 | 72.4 | 2000 | 96.83 | 0 | -1.61 | 0 | 0 | 189.13  | 0 | 0 | 0 | 0 | 0 | -191.6  | -191.6  |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 85.9  | 85.9  | 1 | 19571.1 | 72.4 | 4000 | 96.83 | 0 | -1.61 | 0 | 0 | 641.35  | 0 | 0 | 0 | 0 | 0 | -650.7  | -650.7  |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 73.3  | 73.3  | 1 | 19571.1 | 72.4 | 8000 | 96.83 | 0 | -1.61 | 0 | 0 | 2287.51 | 0 | 0 | 0 | 0 | 0 | -2309.4 | -2309.4 |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | -39.4 | -39.4 | 1 | 20181.3 | 74.9 | 32   | 97.1  | 0 | -5.38 | 0 | 0 | 0.65    | 0 | 0 | 0 | 0 | 0 | -131.8  | -131.8  |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 83.6  | 83.6  | 1 | 20181.3 | 74.9 | 63   | 97.1  | 0 | -5.38 | 0 | 0 | 2.46    | 0 | 0 | 0 | 0 | 0 | -10.6   | -10.6   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 91.7  | 91.7  | 1 | 20181.3 | 74.9 | 125  | 97.1  | 0 | 1.07  | 0 | 0 | 8.29    | 0 | 0 | 0 | 0 | 0 | -14.8   | -14.8   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 98.7  | 98.7  | 1 | 20181.3 | 74.9 | 250  | 97.1  | 0 | -0.64 | 0 | 0 | 21.06   | 0 | 0 | 0 | 0 | 0 | -18.8   | -18.8   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 100.8 | 100.8 | 1 | 20181.3 | 74.9 | 500  | 97.1  | 0 | -1.61 | 0 | 0 | 38.91   | 0 | 0 | 0 | 0 | 0 | -33.6   | -33.6   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 98.3  | 98.3  | 1 | 20181.3 | 74.9 | 1000 | 97.1  | 0 | -1.61 | 0 | 0 | 73.82   | 0 | 0 | 0 | 0 | 0 | -71.0   | -71.0   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 92.8  | 92.8  | 1 | 20181.3 | 74.9 | 2000 | 97.1  | 0 | -1.61 | 0 | 0 | 195.03  | 0 | 0 | 0 | 0 | 0 | -197.7  | -197.7  |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 85.9  | 85.9  | 1 | 20181.3 | 74.9 | 4000 | 97.1  | 0 | -1.61 | 0 | 0 | 661.34  | 0 | 0 | 0 | 0 | 0 | -670.9  | -670.9  |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 73.3  | 73.3  | 1 | 20181.3 | 74.9 | 8000 | 97.1  | 0 | -1.61 | 0 | 0 | 2358.83 | 0 | 0 | 0 | 0 | 0 | -2381.0 | -2381.0 |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 20505.7 | 74.6 | 32   | 97.24 | 0 | -5.39 | 0 | 0 | 0.66    | 0 | 0 | 0 | 0 | 0 | -131.9  | -131.9  |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 20505.7 | 74.6 | 63   | 97.24 | 0 | -5.39 | 0 | 0 | 2.5     | 0 | 0 | 0 | 0 | 0 | -10.8   | -10.8   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 20505.7 | 74.6 | 125  | 97.24 | 0 | 1.07  | 0 | 0 | 8.43    | 0 | 0 | 0 | 0 | 0 | -15.0   | -15.0   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 20505.7 | 74.6 | 250  | 97.24 | 0 | -0.64 | 0 | 0 | 21.4    | 0 | 0 | 0 | 0 | 0 | -19.3   | -19.3   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 20505.7 | 74.6 | 500  | 97.24 | 0 | -1.62 | 0 | 0 | 39.53   | 0 | 0 | 0 | 0 | 0 | -34.4   | -34.4   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 20505.7 | 74.6 | 1000 | 97.24 | 0 | -1.62 | 0 | 0 | 75      | 0 | 0 | 0 | 0 | 0 | -72.3   | -72.3   |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |   |   |   |        |         |         |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---|---|---|--------|---------|---------|---------|---------|
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 20505.7 | 74.6 | 2000 | 97.24 | 0 | -1.62 | 0 | 0 | 198.17  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -201.0 | -201.0  |         |         |         |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 20505.7 | 74.6 | 4000 | 97.24 | 0 | -1.62 | 0 | 0 | 671.97  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -681.7  | -681.7  |         |         |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 20505.7 | 74.6 | 8000 | 97.24 | 0 | -1.62 | 0 | 0 | 2396.75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -2419.1 | -2419.1 |         |         |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 20587.5 | 74.5 | 32   | 97.27 | 0 | -5.39 | 0 | 0 | 0.66    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -131.9  | -131.9  |         |         |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 20587.5 | 74.5 | 63   | 97.27 | 0 | -5.39 | 0 | 0 | 2.51    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | -10.8   | -10.8   |         |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 20587.5 | 74.5 | 125  | 97.27 | 0 | 1.07  | 0 | 0 | 8.46    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | -15.1   | -15.1   |         |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 20587.5 | 74.5 | 250  | 97.27 | 0 | -0.64 | 0 | 0 | 21.48   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | -19.4   | -19.4   |         |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 20587.5 | 74.5 | 500  | 97.27 | 0 | -1.62 | 0 | 0 | 39.69   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -34.6   | -34.6   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 20587.5 | 74.5 | 1000 | 97.27 | 0 | -1.62 | 0 | 0 | 75.3    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -72.7   | -72.7   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 20587.5 | 74.5 | 2000 | 97.27 | 0 | -1.62 | 0 | 0 | 198.96  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -201.8  | -201.8  |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 20587.5 | 74.5 | 4000 | 97.27 | 0 | -1.62 | 0 | 0 | 674.66  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -684.4  | -684.4  |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 20587.5 | 74.5 | 8000 | 97.27 | 0 | -1.62 | 0 | 0 | 2406.31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -2428.7 | -2428.7 |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 20854.5 | 74.2 | 32   | 97.38 | 0 | -5.4  | 0 | 0 | 0.67    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -132.1  | -132.1  |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 20854.5 | 74.2 | 63   | 97.38 | 0 | -5.4  | 0 | 0 | 2.54    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -10.9   | -10.9   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 20854.5 | 74.2 | 125  | 97.38 | 0 | 1.06  | 0 | 0 | 8.57    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -15.3   | -15.3   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 20854.5 | 74.2 | 250  | 97.38 | 0 | -0.65 | 0 | 0 | 21.76   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -19.8   | -19.8   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 20854.5 | 74.2 | 500  | 97.38 | 0 | -1.62 | 0 | 0 | 40.2    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -35.2   | -35.2   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 20854.5 | 74.2 | 1000 | 97.38 | 0 | -1.62 | 0 | 0 | 76.28   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -73.7   | -73.7   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 20854.5 | 74.2 | 2000 | 97.38 | 0 | -1.62 | 0 | 0 | 201.54  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -204.5  | -204.5  |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 20854.5 | 74.2 | 4000 | 97.38 | 0 | -1.62 | 0 | 0 | 683.4   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -693.3  | -693.3  |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 20854.5 | 74.2 | 8000 | 97.38 | 0 | -1.62 | 0 | 0 | 2437.52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -2460.0 | -2460.0 |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | -39.4 | -39.4 | 1 | 21185.9 | 74.5 | 32   | 97.52 | 0 | -5.41 | 0 | 0 | 0.68    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -132.2  | -132.2  |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 83.6  | 83.6  | 1 | 21185.9 | 74.5 | 63   | 97.52 | 0 | -5.41 | 0 | 0 | 2.58    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -11.1   | -11.1   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 91.7  | 91.7  | 1 | 21185.9 | 74.5 | 125  | 97.52 | 0 | 1.06  | 0 | 0 | 8.71    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -15.6   | -15.6   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 98.7  | 98.7  | 1 | 21185.9 | 74.5 | 250  | 97.52 | 0 | -0.65 | 0 | 0 | 22.1    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -20.3   | -20.3   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 100.8 | 100.8 | 1 | 21185.9 | 74.5 | 500  | 97.52 | 0 | -1.62 | 0 | 0 | 40.84   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -35.9   | -35.9   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 98.3  | 98.3  | 1 | 21185.9 | 74.5 | 1000 | 97.52 | 0 | -1.62 | 0 | 0 | 77.49   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -75.1   | -75.1   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 92.8  | 92.8  | 1 | 21185.9 | 74.5 | 2000 | 97.52 | 0 | -1.62 | 0 | 0 | 204.74  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -207.8  | -207.8  |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 85.9  | 85.9  | 1 | 21185.9 | 74.5 | 4000 | 97.52 | 0 | -1.62 | 0 | 0 | 694.27  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -704.3  | -704.3  |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 73.3  | 73.3  | 1 | 21185.9 | 74.5 | 8000 | 97.52 | 0 | -1.62 | 0 | 0 | 2476.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -2498.9 | -2498.9 |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21251.4 | 73.2 | 32   | 97.55 | 0 | -5.41 | 0 | 0 | 0.68    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -132.2  | -132.2  |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 21251.4 | 73.2 | 63   | 97.55 | 0 | -5.41 | 0 | 0 | 2.59    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -11.1   | -11.1   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 21251.4 | 73.2 | 125  | 97.55 | 0 | 1.06  | 0 | 0 | 8.73    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -15.6   | -15.6   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 21251.4 | 73.2 | 250  | 97.55 | 0 | -0.65 | 0 | 0 | 22.17   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -20.4   | -20.4   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 21251.4 | 73.2 | 500  | 97.55 | 0 | -1.62 | 0 | 0 | 40.97   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -36.1   | -36.1   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 21251.4 | 73.2 | 1000 | 97.55 | 0 | -1.62 | 0 | 0 | 77.73   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -75.4   | -75.4   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 21251.4 | 73.2 | 2000 | 97.55 | 0 | -1.62 | 0 | 0 | 205.37  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -208.5  | -208.5  |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 21251.4 | 73.2 | 4000 | 97.55 | 0 | -1.62 | 0 | 0 | 696.41  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -706.4  | -706.4  |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 21251.4 | 73.2 | 8000 | 97.55 | 0 | -1.62 | 0 | 0 | 2483.91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -2506.5 | -2506.5 |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21385.1 | 73.5 | 32   | 97.6  | 0 | -5.41 | 0 | 0 | 0.68    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -132.3  | -132.3  |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 21385.1 | 73.5 | 63   | 97.6  | 0 | -5.41 | 0 | 0 | 2.6     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -11.2   | -11.2   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 21385.1 | 73.5 | 125  | 97.6  | 0 | 1.06  | 0 | 0 | 8.79    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -15.8   | -15.8   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 21385.1 | 73.5 | 250  | 97.6  | 0 | -0.65 | 0 | 0 | 22.31   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -20.6   | -20.6   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 21385.1 | 73.5 | 500  | 97.6  | 0 | -1.62 | 0 | 0 | 41.23   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -36.4   | -36.4   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 21385.1 | 73.5 | 1000 | 97.6  | 0 | -1.62 | 0 | 0 | 78.22   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -75.9   | -75.9   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 21385.1 | 73.5 | 2000 | 97.6  | 0 | -1.62 | 0 | 0 | 206.66  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -209.8  | -209.8  |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 21385.1 | 73.5 | 4000 | 97.6  | 0 | -1.62 | 0 | 0 | 700.79  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0       | 0       | -710.9  | -710.9  |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 21385.1 | 73.5 | 8000 | 97.6  | 0 | -1.62 | 0 | 0 | 2499.54 | 0 | 0 | 0 | 0 | 0 | 0 | -2522.2 | -2522.2 |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | -39.4 | -39.4 | 1 | 21638.5 | 76.3 | 32   | 97.7  | 0 | -5.42 | 0 | 0 | 0.69    | 0 | 0 | 0 | 0 | 0 | 0 | -132.4  | -132.4  |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 83.6  | 83.6  | 1 | 21638.5 | 76.3 | 63   | 97.7  | 0 | -5.42 | 0 | 0 | 2.63    | 0 | 0 | 0 | 0 | 0 | 0 | -11.3   | -11.3   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 91.7  | 91.7  | 1 | 21638.5 | 76.3 | 125  | 97.7  | 0 | 1.06  | 0 | 0 | 8.89    | 0 | 0 | 0 | 0 | 0 | 0 | -16.0   | -16.0   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 98.7  | 98.7  | 1 | 21638.5 | 76.3 | 250  | 97.7  | 0 | -0.65 | 0 | 0 | 22.58   | 0 | 0 | 0 | 0 | 0 | 0 | -20.9   | -20.9   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 100.8 | 100.8 | 1 | 21638.5 | 76.3 | 500  | 97.7  | 0 | -1.63 | 0 | 0 | 41.72   | 0 | 0 | 0 | 0 | 0 | 0 | -37.0   | -37.0   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 98.3  | 98.3  | 1 | 21638.5 | 76.3 | 1000 | 97.7  | 0 | -1.63 | 0 | 0 | 79.15   | 0 | 0 | 0 | 0 | 0 | 0 | -76.9   | -76.9   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 92.8  | 92.8  | 1 | 21638.5 | 76.3 | 2000 | 97.7  | 0 | -1.63 | 0 | 0 | 209.11  | 0 | 0 | 0 | 0 | 0 | 0 | -212.4  | -212.4  |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 85.9  | 85.9  | 1 | 21638.5 | 76.3 | 4000 | 97.7  | 0 | -1.63 | 0 | 0 | 709.1   | 0 | 0 | 0 | 0 | 0 | 0 | -719.3  | -719.3  |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 73.3  | 73.3  | 1 | 21638.5 | 76.3 | 8000 | 97.7  | 0 | -1.63 | 0 | 0 | 2529.15 | 0 | 0 | 0 | 0 | 0 | 0 | -2551.9 | -2551.9 |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21705.2 | 74.3 | 32   | 97.73 | 0 | -5.42 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.4  | -132.4  |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 21705.2 | 74.3 | 63   | 97.73 | 0 | -5.42 | 0 | 0 | 2.64    | 0 | 0 | 0 | 0 | 0 | 0 | -11.4   | -11.4   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 21705.2 | 74.3 | 125  | 97.73 | 0 | 1.06  | 0 | 0 | 8.92    | 0 | 0 | 0 | 0 | 0 | 0 | -16.0   | -16.0   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 21705.2 | 74.3 | 250  | 97.73 | 0 | -0.65 | 0 | 0 | 22.65   | 0 | 0 | 0 | 0 | 0 | 0 | -21.0   | -21.0   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 21705.2 | 74.3 | 500  | 97.73 | 0 | -1.63 | 0 | 0 | 41.84   | 0 | 0 | 0 | 0 | 0 | 0 | -37.2   | -37.2   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 21705.2 | 74.3 | 1000 | 97.73 | 0 | -1.63 | 0 | 0 | 79.39   | 0 | 0 | 0 | 0 | 0 | 0 | -77.2   | -77.2   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 21705.2 | 74.3 | 2000 | 97.73 | 0 | -1.63 | 0 | 0 | 209.76  | 0 | 0 | 0 | 0 | 0 | 0 | -213.1  | -213.1  |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 21705.2 | 74.3 | 4000 | 97.73 | 0 | -1.63 | 0 | 0 | 711.28  | 0 | 0 | 0 | 0 | 0 | 0 | -721.5  | -721.5  |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 21705.2 | 74.3 | 8000 | 97.73 | 0 | -1.63 | 0 | 0 | 2536.94 | 0 | 0 | 0 | 0 | 0 | 0 | -2559.8 | -2559.8 |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | -39.4 | -39.4 | 1 | 21736.8 | 75.7 | 32   | 97.74 | 0 | -5.42 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.4  | -132.4  |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 83.6  | 83.6  | 1 | 21736.8 | 75.7 | 63   | 97.74 | 0 | -5.42 | 0 | 0 | 2.65    | 0 | 0 | 0 | 0 | 0 | 0 | -11.4   | -11.4   |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 91.7  | 91.7  | 1 | 21736.8 | 75.7 | 125  | 97.74 | 0 | 1.06  | 0 | 0 | 8.93    | 0 | 0 | 0 | 0 | 0 | 0 | -16.0   | -16.0   |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 98.7  | 98.7  | 1 | 21736.8 | 75.7 | 250  | 97.74 | 0 | -0.65 | 0 | 0 | 22.68   | 0 | 0 | 0 | 0 | 0 | 0 | -21.1   | -21.1   |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 100.8 | 100.8 | 1 | 21736.8 | 75.7 | 500  | 97.74 | 0 | -1.63 | 0 | 0 | 41.91   | 0 | 0 | 0 | 0 | 0 | 0 | -37.2   | -37.2   |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 98.3  | 98.3  | 1 | 21736.8 | 75.7 | 1000 | 97.74 | 0 | -1.63 | 0 | 0 | 79.51   | 0 | 0 | 0 | 0 | 0 | 0 | -77.3   | -77.3   |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 92.8  | 92.8  | 1 | 21736.8 | 75.7 | 2000 | 97.74 | 0 | -1.63 | 0 | 0 | 210.06  | 0 | 0 | 0 | 0 | 0 | 0 | -213.4  | -213.4  |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 85.9  | 85.9  | 1 | 21736.8 | 75.7 | 4000 | 97.74 | 0 | -1.63 | 0 | 0 | 712.32  | 0 | 0 | 0 | 0 | 0 | 0 | -722.5  | -722.5  |
| T66 | 619127    | 4768529    | 325    | 190    | 0 | 73.3  | 73.3  | 1 | 21736.8 | 75.7 | 8000 | 97.74 | 0 | -1.63 | 0 | 0 | 2540.64 | 0 | 0 | 0 | 0 | 0 | 0 | -2563.5 | -2563.5 |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | -39.4 | -39.4 | 1 | 21886.9 | 73.5 | 32   | 97.8  | 0 | -5.43 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.5  | -132.5  |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 83.6  | 83.6  | 1 | 21886.9 | 73.5 | 63   | 97.8  | 0 | -5.43 | 0 | 0 | 2.66    | 0 | 0 | 0 | 0 | 0 | 0 | -11.4   | -11.4   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 91.7  | 91.7  | 1 | 21886.9 | 73.5 | 125  | 97.8  | 0 | 1.05  | 0 | 0 | 8.99    | 0 | 0 | 0 | 0 | 0 | 0 | -16.2   | -16.2   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 98.7  | 98.7  | 1 | 21886.9 | 73.5 | 250  | 97.8  | 0 | -0.65 | 0 | 0 | 22.84   | 0 | 0 | 0 | 0 | 0 | 0 | -21.3   | -21.3   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 100.8 | 100.8 | 1 | 21886.9 | 73.5 | 500  | 97.8  | 0 | -1.63 | 0 | 0 | 42.2    | 0 | 0 | 0 | 0 | 0 | 0 | -37.6   | -37.6   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 98.3  | 98.3  | 1 | 21886.9 | 73.5 | 1000 | 97.8  | 0 | -1.63 | 0 | 0 | 80.06   | 0 | 0 | 0 | 0 | 0 | 0 | -77.9   | -77.9   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 92.8  | 92.8  | 1 | 21886.9 | 73.5 | 2000 | 97.8  | 0 | -1.63 | 0 | 0 | 211.51  | 0 | 0 | 0 | 0 | 0 | 0 | -214.9  | -214.9  |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 85.9  | 85.9  | 1 | 21886.9 | 73.5 | 4000 | 97.8  | 0 | -1.63 | 0 | 0 | 717.24  | 0 | 0 | 0 | 0 | 0 | 0 | -727.5  | -727.5  |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 73.3  | 73.3  | 1 | 21886.9 | 73.5 | 8000 | 97.8  | 0 | -1.63 | 0 | 0 | 2558.18 | 0 | 0 | 0 | 0 | 0 | 0 | -2581.1 | -2581.1 |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 22000.2 | 73.8 | 32   | 97.85 | 0 | -5.43 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.5  | -132.5  |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 22000.2 | 73.8 | 63   | 97.85 | 0 | -5.43 | 0 | 0 | 2.68    | 0 | 0 | 0 | 0 | 0 | 0 | -11.5   | -11.5   |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 22000.2 | 73.8 | 125  | 97.85 | 0 | 1.05  | 0 | 0 | 9.04    | 0 | 0 | 0 | 0 | 0 | 0 | -16.2   | -16.2   |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 22000.2 | 73.8 | 250  | 97.85 | 0 | -0.66 | 0 | 0 | 22.95   | 0 | 0 | 0 | 0 | 0 | 0 | -21.5   | -21.5   |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 22000.2 | 73.8 | 500  | 97.85 | 0 | -1.63 | 0 | 0 | 42.41   | 0 | 0 | 0 | 0 | 0 | 0 | -37.8   | -37.8   |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 22000.2 | 73.8 | 1000 | 97.85 | 0 | -1.63 | 0 | 0 | 80.47   | 0 | 0 | 0 | 0 | 0 | 0 | -78.4   | -78.4   |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 22000.2 | 73.8 | 2000 | 97.85 | 0 | -1.63 | 0 | 0 | 212.61  | 0 | 0 | 0 | 0 | 0 | 0 | -216.0  | -216.0  |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 22000.2 | 73.8 | 4000 | 97.85 | 0 | -1.63 | 0 | 0 | 720.95  | 0 | 0 | 0 | 0 | 0 | 0 | -731.3  | -731.3  |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 22000.2 | 73.8 | 8000 | 97.85 | 0 | -1.63 | 0 | 0 | 2571.42 | 0 | 0 | 0 | 0 | 0 | 0 | -2594.3 | -2594.3 |
| T28 | 622516.5  | 4769095.7  | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 22026.2 | 73.7 | 32   | 97.86 | 0 | -5.43 | 0 | 0 | 0.71    | 0 | 0 | 0 | 0 | 0 | 0 | -132.5  | -132.5  |

|     |           |            |     |     |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|-----|-----|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 83.6  | 83.6  | 1 | 22026.2 | 73.7 | 63   | 97.86 | 0 | -5.43 | 0 | 0 | 2.68    | 0 | 0 | 0 | 0 | 0 | 0 | -11.5   | -11.5   |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 91.7  | 91.7  | 1 | 22026.2 | 73.7 | 125  | 97.86 | 0 | 1.05  | 0 | 0 | 9.05    | 0 | 0 | 0 | 0 | 0 | 0 | -16.3   | -16.3   |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 98.7  | 98.7  | 1 | 22026.2 | 73.7 | 250  | 97.86 | 0 | -0.66 | 0 | 0 | 22.98   | 0 | 0 | 0 | 0 | 0 | 0 | -21.5   | -21.5   |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 100.8 | 100.8 | 1 | 22026.2 | 73.7 | 500  | 97.86 | 0 | -1.63 | 0 | 0 | 42.46   | 0 | 0 | 0 | 0 | 0 | 0 | -37.9   | -37.9   |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 98.3  | 98.3  | 1 | 22026.2 | 73.7 | 1000 | 97.86 | 0 | -1.63 | 0 | 0 | 80.57   | 0 | 0 | 0 | 0 | 0 | 0 | -78.5   | -78.5   |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 92.8  | 92.8  | 1 | 22026.2 | 73.7 | 2000 | 97.86 | 0 | -1.63 | 0 | 0 | 212.86  | 0 | 0 | 0 | 0 | 0 | 0 | -216.3  | -216.3  |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 85.9  | 85.9  | 1 | 22026.2 | 73.7 | 4000 | 97.86 | 0 | -1.63 | 0 | 0 | 721.8   | 0 | 0 | 0 | 0 | 0 | 0 | -732.1  | -732.1  |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 73.3  | 73.3  | 1 | 22026.2 | 73.7 | 8000 | 97.86 | 0 | -1.63 | 0 | 0 | 2574.47 | 0 | 0 | 0 | 0 | 0 | 0 | -2597.4 | -2597.4 |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | -39.4 | -39.4 | 1 | 22031.2 | 76.1 | 32   | 97.86 | 0 | -5.43 | 0 | 0 | 0.71    | 0 | 0 | 0 | 0 | 0 | 0 | -132.5  | -132.5  |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 83.6  | 83.6  | 1 | 22031.2 | 76.1 | 63   | 97.86 | 0 | -5.43 | 0 | 0 | 2.68    | 0 | 0 | 0 | 0 | 0 | 0 | -11.5   | -11.5   |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 91.7  | 91.7  | 1 | 22031.2 | 76.1 | 125  | 97.86 | 0 | 1.05  | 0 | 0 | 9.05    | 0 | 0 | 0 | 0 | 0 | 0 | -16.3   | -16.3   |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 98.7  | 98.7  | 1 | 22031.2 | 76.1 | 250  | 97.86 | 0 | -0.66 | 0 | 0 | 22.99   | 0 | 0 | 0 | 0 | 0 | 0 | -21.5   | -21.5   |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 100.8 | 100.8 | 1 | 22031.2 | 76.1 | 500  | 97.86 | 0 | -1.63 | 0 | 0 | 42.47   | 0 | 0 | 0 | 0 | 0 | 0 | -37.9   | -37.9   |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 98.3  | 98.3  | 1 | 22031.2 | 76.1 | 1000 | 97.86 | 0 | -1.63 | 0 | 0 | 80.58   | 0 | 0 | 0 | 0 | 0 | 0 | -78.5   | -78.5   |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 92.8  | 92.8  | 1 | 22031.2 | 76.1 | 2000 | 97.86 | 0 | -1.63 | 0 | 0 | 212.91  | 0 | 0 | 0 | 0 | 0 | 0 | -216.3  | -216.3  |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 85.9  | 85.9  | 1 | 22031.2 | 76.1 | 4000 | 97.86 | 0 | -1.63 | 0 | 0 | 721.96  | 0 | 0 | 0 | 0 | 0 | 0 | -732.3  | -732.3  |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 73.3  | 73.3  | 1 | 22031.2 | 76.1 | 8000 | 97.86 | 0 | -1.63 | 0 | 0 | 2575.05 | 0 | 0 | 0 | 0 | 0 | 0 | -2598.0 | -2598.0 |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | -39.4 | -39.4 | 1 | 22122.1 | 73.5 | 32   | 97.9  | 0 | -5.43 | 0 | 0 | 0.71    | 0 | 0 | 0 | 0 | 0 | 0 | -132.6  | -132.6  |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 83.6  | 83.6  | 1 | 22122.1 | 73.5 | 63   | 97.9  | 0 | -5.43 | 0 | 0 | 2.69    | 0 | 0 | 0 | 0 | 0 | 0 | -11.6   | -11.6   |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 91.7  | 91.7  | 1 | 22122.1 | 73.5 | 125  | 97.9  | 0 | 1.05  | 0 | 0 | 9.09    | 0 | 0 | 0 | 0 | 0 | 0 | -16.3   | -16.3   |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 98.7  | 98.7  | 1 | 22122.1 | 73.5 | 250  | 97.9  | 0 | -0.66 | 0 | 0 | 23.08   | 0 | 0 | 0 | 0 | 0 | 0 | -21.6   | -21.6   |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 100.8 | 100.8 | 1 | 22122.1 | 73.5 | 500  | 97.9  | 0 | -1.63 | 0 | 0 | 42.65   | 0 | 0 | 0 | 0 | 0 | 0 | -38.1   | -38.1   |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 98.3  | 98.3  | 1 | 22122.1 | 73.5 | 1000 | 97.9  | 0 | -1.63 | 0 | 0 | 80.92   | 0 | 0 | 0 | 0 | 0 | 0 | -78.9   | -78.9   |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 92.8  | 92.8  | 1 | 22122.1 | 73.5 | 2000 | 97.9  | 0 | -1.63 | 0 | 0 | 213.79  | 0 | 0 | 0 | 0 | 0 | 0 | -217.3  | -217.3  |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 85.9  | 85.9  | 1 | 22122.1 | 73.5 | 4000 | 97.9  | 0 | -1.63 | 0 | 0 | 724.94  | 0 | 0 | 0 | 0 | 0 | 0 | -735.3  | -735.3  |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 73.3  | 73.3  | 1 | 22122.1 | 73.5 | 8000 | 97.9  | 0 | -1.63 | 0 | 0 | 2585.67 | 0 | 0 | 0 | 0 | 0 | 0 | -2608.6 | -2608.6 |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | -39.4 | -39.4 | 1 | 22307.0 | 75.3 | 32   | 97.97 | 0 | -5.44 | 0 | 0 | 0.71    | 0 | 0 | 0 | 0 | 0 | 0 | -132.7  | -132.7  |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | 83.6  | 83.6  | 1 | 22307.0 | 75.3 | 63   | 97.97 | 0 | -5.44 | 0 | 0 | 2.71    | 0 | 0 | 0 | 0 | 0 | 0 | -11.7   | -11.7   |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | 91.7  | 91.7  | 1 | 22307.0 | 75.3 | 125  | 97.97 | 0 | 1.05  | 0 | 0 | 9.17    | 0 | 0 | 0 | 0 | 0 | 0 | -16.5   | -16.5   |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | 98.7  | 98.7  | 1 | 22307.0 | 75.3 | 250  | 97.97 | 0 | -0.66 | 0 | 0 | 23.27   | 0 | 0 | 0 | 0 | 0 | 0 | -21.9   | -21.9   |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | 100.8 | 100.8 | 1 | 22307.0 | 75.3 | 500  | 97.97 | 0 | -1.63 | 0 | 0 | 43      | 0 | 0 | 0 | 0 | 0 | 0 | -38.5   | -38.5   |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | 98.3  | 98.3  | 1 | 22307.0 | 75.3 | 1000 | 97.97 | 0 | -1.63 | 0 | 0 | 81.59   | 0 | 0 | 0 | 0 | 0 | 0 | -79.6   | -79.6   |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | 92.8  | 92.8  | 1 | 22307.0 | 75.3 | 2000 | 97.97 | 0 | -1.63 | 0 | 0 | 215.57  | 0 | 0 | 0 | 0 | 0 | 0 | -219.1  | -219.1  |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | 85.9  | 85.9  | 1 | 22307.0 | 75.3 | 4000 | 97.97 | 0 | -1.63 | 0 | 0 | 731     | 0 | 0 | 0 | 0 | 0 | 0 | -741.4  | -741.4  |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | 73.3  | 73.3  | 1 | 22307.0 | 75.3 | 8000 | 97.97 | 0 | -1.63 | 0 | 0 | 2607.28 | 0 | 0 | 0 | 0 | 0 | 0 | -2630.3 | -2630.3 |
| T83 | 615820.98 | 4770714.99 | 325 | 190 | 0 | -39.4 | -39.4 | 1 | 24594.7 | 74.8 | 32   | 98.82 | 0 | -5.49 | 0 | 0 | 0.79    | 0 | 0 | 0 | 0 | 0 | 0 | -133.5  | -133.5  |
| T83 | 615820.98 | 4770714.99 | 325 | 190 | 0 | 83.6  | 83.6  | 1 | 24594.7 | 74.8 | 63   | 98.82 | 0 | -5.49 | 0 | 0 | 2.99    | 0 | 0 | 0 | 0 | 0 | 0 | -12.7   | -12.7   |
| T83 | 615820.98 | 4770714.99 | 325 | 190 | 0 | 91.7  | 91.7  | 1 | 24594.7 | 74.8 | 125  | 98.82 | 0 | 1.04  | 0 | 0 | 10.11   | 0 | 0 | 0 | 0 | 0 | 0 | -18.3   | -18.3   |
| T83 | 615820.98 | 4770714.99 | 325 | 190 | 0 | 98.7  | 98.7  | 1 | 24594.7 | 74.8 | 250  | 98.82 | 0 | -0.67 | 0 | 0 | 25.66   | 0 | 0 | 0 | 0 | 0 | 0 | -25.1   | -25.1   |
| T83 | 615820.98 | 4770714.99 | 325 | 190 | 0 | 100.8 | 100.8 | 1 | 24594.7 | 74.8 | 500  | 98.82 | 0 | -1.65 | 0 | 0 | 47.42   | 0 | 0 | 0 | 0 | 0 | 0 | -43.8   | -43.8   |
| T83 | 615820.98 | 4770714.99 | 325 | 190 | 0 | 98.3  | 98.3  | 1 | 24594.7 | 74.8 | 1000 | 98.82 | 0 | -1.65 | 0 | 0 | 89.96   | 0 | 0 | 0 | 0 | 0 | 0 | -88.8   | -88.8   |
| T83 | 615820.98 | 4770714.99 | 325 | 190 | 0 | 92.8  | 92.8  | 1 | 24594.7 | 74.8 | 2000 | 98.82 | 0 | -1.65 | 0 | 0 | 237.68  | 0 | 0 | 0 | 0 | 0 | 0 | -242.1  | -242.1  |
| T83 | 615820.98 | 4770714.99 | 325 | 190 | 0 | 85.9  | 85.9  | 1 | 24594.7 | 74.8 | 4000 | 98.82 | 0 | -1.65 | 0 | 0 | 805.97  | 0 | 0 | 0 | 0 | 0 | 0 | -817.2  | -817.2  |
| T83 | 615820.98 | 4770714.99 | 325 | 190 | 0 | 73.3  | 73.3  | 1 | 24594.7 | 74.8 | 8000 | 98.82 | 0 | -1.65 | 0 | 0 | 2874.67 | 0 | 0 | 0 | 0 | 0 | 0 | -2898.5 | -2898.5 |
| T53 | 614455.78 | 4766402.39 | 320 | 185 | 0 | -39.4 | -39.4 | 1 | 20973.6 | 74.2 | 32   | 97.43 | 0 | -5.4  | 0 | 0 | 0.67    | 0 | 0 | 0 | 0 | 0 | 0 | -132.1  | -132.1  |
| T53 | 614455.78 | 4766402.39 | 320 | 185 | 0 | 86.6  | 86.6  | 1 | 20973.6 | 74.2 | 63   | 97.43 | 0 | -5.4  | 0 | 0 | 2.55    | 0 | 0 | 0 | 0 | 0 | 0 | -8.0    | -8.0    |
| T53 | 614455.78 | 4766402.39 | 320 | 185 | 0 | 94.7  | 94.7  | 1 | 20973.6 | 74.2 | 125  | 97.43 | 0 | 1.06  | 0 | 0 | 8.62    | 0 | 0 | 0 | 0 | 0 | 0 | -12.4   | -12.4   |

|     |           |            |       |       |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|-------|-------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 94.4  | 94.4  | 1 | 20973.6 | 74.2 | 250  | 97.43 | 0 | -0.65 | 0 | 0 | 21.88   | 0 | 0 | 0 | 0 | 0 | 0 | -24.3   | -24.3   |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 97.3  | 97.3  | 1 | 20973.6 | 74.2 | 500  | 97.43 | 0 | -1.62 | 0 | 0 | 40.43   | 0 | 0 | 0 | 0 | 0 | 0 | -39.0   | -39.0   |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 98.7  | 98.7  | 1 | 20973.6 | 74.2 | 1000 | 97.43 | 0 | -1.62 | 0 | 0 | 76.71   | 0 | 0 | 0 | 0 | 0 | 0 | -73.8   | -73.8   |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 93.8  | 93.8  | 1 | 20973.6 | 74.2 | 2000 | 97.43 | 0 | -1.62 | 0 | 0 | 202.69  | 0 | 0 | 0 | 0 | 0 | 0 | -204.7  | -204.7  |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 81.5  | 81.5  | 1 | 20973.6 | 74.2 | 4000 | 97.43 | 0 | -1.62 | 0 | 0 | 687.31  | 0 | 0 | 0 | 0 | 0 | 0 | -701.6  | -701.6  |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 73.4  | 73.4  | 1 | 20973.6 | 74.2 | 8000 | 97.43 | 0 | -1.62 | 0 | 0 | 2451.44 | 0 | 0 | 0 | 0 | 0 | 0 | -2473.9 | -2473.9 |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | -39.4 | -39.4 | 1 | 24927.0 | 72.6 | 32   | 98.93 | 0 | -5.5  | 0 | 0 | 0.8     | 0 | 0 | 0 | 0 | 0 | 0 | -133.6  | -133.6  |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 83.6  | 83.6  | 1 | 24927.0 | 72.6 | 63   | 98.93 | 0 | -5.5  | 0 | 0 | 3.03    | 0 | 0 | 0 | 0 | 0 | 0 | -12.9   | -12.9   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 91.7  | 91.7  | 1 | 24927.0 | 72.6 | 125  | 98.93 | 0 | 1.03  | 0 | 0 | 10.24   | 0 | 0 | 0 | 0 | 0 | 0 | -18.5   | -18.5   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 98.7  | 98.7  | 1 | 24927.0 | 72.6 | 250  | 98.93 | 0 | -0.68 | 0 | 0 | 26.01   | 0 | 0 | 0 | 0 | 0 | 0 | -25.6   | -25.6   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 100.8 | 100.8 | 1 | 24927.0 | 72.6 | 500  | 98.93 | 0 | -1.65 | 0 | 0 | 48.06   | 0 | 0 | 0 | 0 | 0 | 0 | -44.5   | -44.5   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 98.3  | 98.3  | 1 | 24927.0 | 72.6 | 1000 | 98.93 | 0 | -1.65 | 0 | 0 | 91.18   | 0 | 0 | 0 | 0 | 0 | 0 | -90.2   | -90.2   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 92.8  | 92.8  | 1 | 24927.0 | 72.6 | 2000 | 98.93 | 0 | -1.65 | 0 | 0 | 240.89  | 0 | 0 | 0 | 0 | 0 | 0 | -245.4  | -245.4  |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 85.9  | 85.9  | 1 | 24927.0 | 72.6 | 4000 | 98.93 | 0 | -1.65 | 0 | 0 | 816.86  | 0 | 0 | 0 | 0 | 0 | 0 | -828.3  | -828.3  |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 73.3  | 73.3  | 1 | 24927.0 | 72.6 | 8000 | 98.93 | 0 | -1.65 | 0 | 0 | 2913.52 | 0 | 0 | 0 | 0 | 0 | 0 | -2937.5 | -2937.5 |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | -39.4 | -39.4 | 1 | 25774.6 | 71.3 | 32   | 99.22 | 0 | -5.51 | 0 | 0 | 0.83    | 0 | 0 | 0 | 0 | 0 | 0 | -133.9  | -133.9  |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 83.6  | 83.6  | 1 | 25774.6 | 71.3 | 63   | 99.22 | 0 | -5.51 | 0 | 0 | 3.14    | 0 | 0 | 0 | 0 | 0 | 0 | -13.3   | -13.3   |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 91.7  | 91.7  | 1 | 25774.6 | 71.3 | 125  | 99.22 | 0 | 1.03  | 0 | 0 | 10.59   | 0 | 0 | 0 | 0 | 0 | 0 | -19.1   | -19.1   |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 98.7  | 98.7  | 1 | 25774.6 | 71.3 | 250  | 99.22 | 0 | -0.68 | 0 | 0 | 26.89   | 0 | 0 | 0 | 0 | 0 | 0 | -26.7   | -26.7   |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 100.8 | 100.8 | 1 | 25774.6 | 71.3 | 500  | 99.22 | 0 | -1.65 | 0 | 0 | 49.69   | 0 | 0 | 0 | 0 | 0 | 0 | -46.5   | -46.5   |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 98.3  | 98.3  | 1 | 25774.6 | 71.3 | 1000 | 99.22 | 0 | -1.65 | 0 | 0 | 94.28   | 0 | 0 | 0 | 0 | 0 | 0 | -93.6   | -93.6   |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 92.8  | 92.8  | 1 | 25774.6 | 71.3 | 2000 | 99.22 | 0 | -1.65 | 0 | 0 | 249.08  | 0 | 0 | 0 | 0 | 0 | 0 | -253.9  | -253.9  |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 85.9  | 85.9  | 1 | 25774.6 | 71.3 | 4000 | 99.22 | 0 | -1.65 | 0 | 0 | 844.64  | 0 | 0 | 0 | 0 | 0 | 0 | -856.3  | -856.3  |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 73.3  | 73.3  | 1 | 25774.6 | 71.3 | 8000 | 99.22 | 0 | -1.65 | 0 | 0 | 3012.59 | 0 | 0 | 0 | 0 | 0 | 0 | -3036.9 | -3036.9 |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | -39.4 | -39.4 | 1 | 26046.9 | 70.8 | 32   | 99.32 | 0 | -5.52 | 0 | 0 | 0.83    | 0 | 0 | 0 | 0 | 0 | 0 | -134.0  | -134.0  |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 83.6  | 83.6  | 1 | 26046.9 | 70.8 | 63   | 99.32 | 0 | -5.52 | 0 | 0 | 3.17    | 0 | 0 | 0 | 0 | 0 | 0 | -13.4   | -13.4   |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 91.7  | 91.7  | 1 | 26046.9 | 70.8 | 125  | 99.32 | 0 | 1.03  | 0 | 0 | 10.7    | 0 | 0 | 0 | 0 | 0 | 0 | -19.4   | -19.4   |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 98.7  | 98.7  | 1 | 26046.9 | 70.8 | 250  | 99.32 | 0 | -0.68 | 0 | 0 | 27.18   | 0 | 0 | 0 | 0 | 0 | 0 | -27.1   | -27.1   |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 100.8 | 100.8 | 1 | 26046.9 | 70.8 | 500  | 99.32 | 0 | -1.65 | 0 | 0 | 50.22   | 0 | 0 | 0 | 0 | 0 | 0 | -47.1   | -47.1   |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 98.3  | 98.3  | 1 | 26046.9 | 70.8 | 1000 | 99.32 | 0 | -1.66 | 0 | 0 | 95.27   | 0 | 0 | 0 | 0 | 0 | 0 | -94.6   | -94.6   |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 92.8  | 92.8  | 1 | 26046.9 | 70.8 | 2000 | 99.32 | 0 | -1.66 | 0 | 0 | 251.72  | 0 | 0 | 0 | 0 | 0 | 0 | -256.6  | -256.6  |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 85.9  | 85.9  | 1 | 26046.9 | 70.8 | 4000 | 99.32 | 0 | -1.66 | 0 | 0 | 853.56  | 0 | 0 | 0 | 0 | 0 | 0 | -865.3  | -865.3  |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 73.3  | 73.3  | 1 | 26046.9 | 70.8 | 8000 | 99.32 | 0 | -1.66 | 0 | 0 | 3044.42 | 0 | 0 | 0 | 0 | 0 | 0 | -3068.8 | -3068.8 |

Limit. Value C 40  
Level D/N: 38.7287

Receiver:  
ID:  
X:  
Y:  
Z:  
Ground:

| ISO | ID   | X      | Y       | Z   | Ground | ReflOrd | LxT   | LxN   | L/A | Dist. | hm   | Freq | Adiv  | K0b | Agr  | Abar | z | Aatm | Afol | Ahous | Cmet | CmetN | Dc | RL | LtotT | LtotN  |        |
|-----|------|--------|---------|-----|--------|---------|-------|-------|-----|-------|------|------|-------|-----|------|------|---|------|------|-------|------|-------|----|----|-------|--------|--------|
|     | MH05 | 623047 | 4746843 | 260 | 180    | 0       | -39.4 | -39.4 | 1   | 480.0 | 41.7 | 32   | 64.62 | 0   | -3   | 0    | 0 | 0.02 | 0    | 0     | 0    | 0     | 0  | 0  | 0     | -101.0 | -101.0 |
|     | MH05 | 623047 | 4746843 | 260 | 180    | 0       | 57.5  | 57.5  | 1   | 480.0 | 41.7 | 63   | 64.62 | 0   | -3   | 0    | 0 | 0.06 | 0    | 0     | 0    | 0     | 0  | 0  | 0     | -4.2   | -4.2   |
|     | MH05 | 623047 | 4746843 | 260 | 180    | 0       | 72.4  | 72.4  | 1   | 480.0 | 41.7 | 125  | 64.62 | 0   | 1.44 | 0    | 0 | 0.2  | 0    | 0     | 0    | 0     | 0  | 0  | 0     | 6.1    | 6.1    |

|      |           |            |        |        |   |       |       |   |        |      |      |       |   |      |   |   |        |   |   |   |   |   |   |        |        |
|------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|------|---|---|--------|---|---|---|---|---|---|--------|--------|
| MH05 | 623047    | 4746843    | 260    | 180    | 0 | 82.7  | 82.7  | 1 | 480.0  | 41.7 | 250  | 64.62 | 0 | 0.07 | 0 | 0 | 0.5    | 0 | 0 | 0 | 0 | 0 | 0 | 17.5   | 17.5   |
| MH05 | 623047    | 4746843    | 260    | 180    | 0 | 90.4  | 90.4  | 1 | 480.0  | 41.7 | 500  | 64.62 | 0 | -0.9 | 0 | 0 | 0.93   | 0 | 0 | 0 | 0 | 0 | 0 | 25.8   | 25.8   |
| MH05 | 623047    | 4746843    | 260    | 180    | 0 | 96.8  | 96.8  | 1 | 480.0  | 41.7 | 1000 | 64.62 | 0 | -0.9 | 0 | 0 | 1.76   | 0 | 0 | 0 | 0 | 0 | 0 | 31.3   | 31.3   |
| MH05 | 623047    | 4746843    | 260    | 180    | 0 | 97.2  | 97.2  | 1 | 480.0  | 41.7 | 2000 | 64.62 | 0 | -0.9 | 0 | 0 | 4.64   | 0 | 0 | 0 | 0 | 0 | 0 | 28.8   | 28.8   |
| MH05 | 623047    | 4746843    | 260    | 180    | 0 | 96.0  | 96.0  | 1 | 480.0  | 41.7 | 4000 | 64.62 | 0 | -0.9 | 0 | 0 | 15.73  | 0 | 0 | 0 | 0 | 0 | 0 | 16.6   | 16.6   |
| MH05 | 623047    | 4746843    | 260    | 180    | 0 | 89.2  | 89.2  | 1 | 480.0  | 41.7 | 8000 | 64.62 | 0 | -0.9 | 0 | 0 | 56.1   | 0 | 0 | 0 | 0 | 0 | 0 | -30.6  | -30.6  |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | -39.4 | -39.4 | 1 | 588.9  | 41.9 | 32   | 66.4  | 0 | -3   | 0 | 0 | 0.02   | 0 | 0 | 0 | 0 | 0 | 0 | -102.8 | -102.8 |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 57.5  | 57.5  | 1 | 588.9  | 41.9 | 63   | 66.4  | 0 | -3   | 0 | 0 | 0.07   | 0 | 0 | 0 | 0 | 0 | 0 | -6.0   | -6.0   |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 72.4  | 72.4  | 1 | 588.9  | 41.9 | 125  | 66.4  | 0 | 1.53 | 0 | 0 | 0.24   | 0 | 0 | 0 | 0 | 0 | 0 | 4.2    | 4.2    |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 82.7  | 82.7  | 1 | 588.9  | 41.9 | 250  | 66.4  | 0 | 0.07 | 0 | 0 | 0.61   | 0 | 0 | 0 | 0 | 0 | 0 | 15.6   | 15.6   |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 90.4  | 90.4  | 1 | 588.9  | 41.9 | 500  | 66.4  | 0 | -0.9 | 0 | 0 | 1.14   | 0 | 0 | 0 | 0 | 0 | 0 | 23.8   | 23.8   |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 96.8  | 96.8  | 1 | 588.9  | 41.9 | 1000 | 66.4  | 0 | -0.9 | 0 | 0 | 2.15   | 0 | 0 | 0 | 0 | 0 | 0 | 29.1   | 29.1   |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 97.2  | 97.2  | 1 | 588.9  | 41.9 | 2000 | 66.4  | 0 | -0.9 | 0 | 0 | 5.69   | 0 | 0 | 0 | 0 | 0 | 0 | 26.0   | 26.0   |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 96.0  | 96.0  | 1 | 588.9  | 41.9 | 4000 | 66.4  | 0 | -0.9 | 0 | 0 | 19.3   | 0 | 0 | 0 | 0 | 0 | 0 | 11.2   | 11.2   |
| MH04 | 623297    | 4746604    | 260    | 180    | 0 | 89.2  | 89.2  | 1 | 588.9  | 41.9 | 8000 | 66.4  | 0 | -0.9 | 0 | 0 | 68.83  | 0 | 0 | 0 | 0 | 0 | 0 | -45.1  | -45.1  |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0 | -39.4 | -39.4 | 1 | 1027.3 | 42.3 | 32   | 71.23 | 0 | -3   | 0 | 0 | 0.03   | 0 | 0 | 0 | 0 | 0 | 0 | -107.7 | -107.7 |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0 | 57.5  | 57.5  | 1 | 1027.3 | 42.3 | 63   | 71.23 | 0 | -3   | 0 | 0 | 0.13   | 0 | 0 | 0 | 0 | 0 | 0 | -10.9  | -10.9  |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0 | 72.4  | 72.4  | 1 | 1027.3 | 42.3 | 125  | 71.23 | 0 | 1.75 | 0 | 0 | 0.42   | 0 | 0 | 0 | 0 | 0 | 0 | -1.0   | -1.0   |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0 | 82.7  | 82.7  | 1 | 1027.3 | 42.3 | 250  | 71.23 | 0 | 0.07 | 0 | 0 | 1.07   | 0 | 0 | 0 | 0 | 0 | 0 | 10.3   | 10.3   |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0 | 90.4  | 90.4  | 1 | 1027.3 | 42.3 | 500  | 71.23 | 0 | -0.9 | 0 | 0 | 1.98   | 0 | 0 | 0 | 0 | 0 | 0 | 18.1   | 18.1   |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0 | 96.8  | 96.8  | 1 | 1027.3 | 42.3 | 1000 | 71.23 | 0 | -0.9 | 0 | 0 | 3.76   | 0 | 0 | 0 | 0 | 0 | 0 | 22.7   | 22.7   |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0 | 97.2  | 97.2  | 1 | 1027.3 | 42.3 | 2000 | 71.23 | 0 | -0.9 | 0 | 0 | 9.93   | 0 | 0 | 0 | 0 | 0 | 0 | 16.9   | 16.9   |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0 | 96.0  | 96.0  | 1 | 1027.3 | 42.3 | 4000 | 71.23 | 0 | -0.9 | 0 | 0 | 33.67  | 0 | 0 | 0 | 0 | 0 | 0 | -8.0   | -8.0   |
| MH02 | 622632    | 4746480    | 260.44 | 180.44 | 0 | 89.2  | 89.2  | 1 | 1027.3 | 42.3 | 8000 | 71.23 | 0 | -0.9 | 0 | 0 | 120.08 | 0 | 0 | 0 | 0 | 0 | 0 | -101.2 | -101.2 |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | -39.4 | -39.4 | 1 | 1489.6 | 69.2 | 32   | 74.46 | 0 | -3   | 0 | 0 | 0.05   | 0 | 0 | 0 | 0 | 0 | 0 | -110.9 | -110.9 |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 83.6  | 83.6  | 1 | 1489.6 | 69.2 | 63   | 74.46 | 0 | -3   | 0 | 0 | 0.18   | 0 | 0 | 0 | 0 | 0 | 0 | 12.0   | 12.0   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 91.7  | 91.7  | 1 | 1489.6 | 69.2 | 125  | 74.46 | 0 | 1.78 | 0 | 0 | 0.61   | 0 | 0 | 0 | 0 | 0 | 0 | 14.8   | 14.8   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 98.7  | 98.7  | 1 | 1489.6 | 69.2 | 250  | 74.46 | 0 | 0.07 | 0 | 0 | 1.55   | 0 | 0 | 0 | 0 | 0 | 0 | 22.6   | 22.6   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 100.8 | 100.8 | 1 | 1489.6 | 69.2 | 500  | 74.46 | 0 | -0.9 | 0 | 0 | 2.87   | 0 | 0 | 0 | 0 | 0 | 0 | 24.4   | 24.4   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 98.3  | 98.3  | 1 | 1489.6 | 69.2 | 1000 | 74.46 | 0 | -0.9 | 0 | 0 | 5.45   | 0 | 0 | 0 | 0 | 0 | 0 | 19.3   | 19.3   |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 92.8  | 92.8  | 1 | 1489.6 | 69.2 | 2000 | 74.46 | 0 | -0.9 | 0 | 0 | 14.4   | 0 | 0 | 0 | 0 | 0 | 0 | 4.8    | 4.8    |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 85.9  | 85.9  | 1 | 1489.6 | 69.2 | 4000 | 74.46 | 0 | -0.9 | 0 | 0 | 48.82  | 0 | 0 | 0 | 0 | 0 | 0 | -36.5  | -36.5  |
| T45  | 623159.98 | 4748650.44 | 313.11 | 178.11 | 0 | 73.3  | 73.3  | 1 | 1489.6 | 69.2 | 8000 | 74.46 | 0 | -0.9 | 0 | 0 | 174.11 | 0 | 0 | 0 | 0 | 0 | 0 | -174.4 | -174.4 |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | -39.4 | -39.4 | 1 | 1554.6 | 69.3 | 32   | 74.83 | 0 | -3   | 0 | 0 | 0.05   | 0 | 0 | 0 | 0 | 0 | 0 | -111.3 | -111.3 |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 83.6  | 83.6  | 1 | 1554.6 | 69.3 | 63   | 74.83 | 0 | -3   | 0 | 0 | 0.19   | 0 | 0 | 0 | 0 | 0 | 0 | 11.6   | 11.6   |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 91.7  | 91.7  | 1 | 1554.6 | 69.3 | 125  | 74.83 | 0 | 1.78 | 0 | 0 | 0.64   | 0 | 0 | 0 | 0 | 0 | 0 | 14.5   | 14.5   |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 98.7  | 98.7  | 1 | 1554.6 | 69.3 | 250  | 74.83 | 0 | 0.07 | 0 | 0 | 1.62   | 0 | 0 | 0 | 0 | 0 | 0 | 22.2   | 22.2   |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 100.8 | 100.8 | 1 | 1554.6 | 69.3 | 500  | 74.83 | 0 | -0.9 | 0 | 0 | 3      | 0 | 0 | 0 | 0 | 0 | 0 | 23.9   | 23.9   |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 98.3  | 98.3  | 1 | 1554.6 | 69.3 | 1000 | 74.83 | 0 | -0.9 | 0 | 0 | 5.69   | 0 | 0 | 0 | 0 | 0 | 0 | 18.7   | 18.7   |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 92.8  | 92.8  | 1 | 1554.6 | 69.3 | 2000 | 74.83 | 0 | -0.9 | 0 | 0 | 15.02  | 0 | 0 | 0 | 0 | 0 | 0 | 3.8    | 3.8    |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 85.9  | 85.9  | 1 | 1554.6 | 69.3 | 4000 | 74.83 | 0 | -0.9 | 0 | 0 | 50.94  | 0 | 0 | 0 | 0 | 0 | 0 | -39.0  | -39.0  |
| T47  | 622482.87 | 4748446.93 | 314.34 | 179.34 | 0 | 73.3  | 73.3  | 1 | 1554.6 | 69.3 | 8000 | 74.83 | 0 | -0.9 | 0 | 0 | 181.7  | 0 | 0 | 0 | 0 | 0 | 0 | -182.3 | -182.3 |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | -39.4 | -39.4 | 1 | 1619.3 | 69.5 | 32   | 75.19 | 0 | -3   | 0 | 0 | 0.05   | 0 | 0 | 0 | 0 | 0 | 0 | -111.6 | -111.6 |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 83.6  | 83.6  | 1 | 1619.3 | 69.5 | 63   | 75.19 | 0 | -3   | 0 | 0 | 0.2    | 0 | 0 | 0 | 0 | 0 | 0 | 11.2   | 11.2   |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 91.7  | 91.7  | 1 | 1619.3 | 69.5 | 125  | 75.19 | 0 | 1.78 | 0 | 0 | 0.67   | 0 | 0 | 0 | 0 | 0 | 0 | 14.1   | 14.1   |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 98.7  | 98.7  | 1 | 1619.3 | 69.5 | 250  | 75.19 | 0 | 0.07 | 0 | 0 | 1.69   | 0 | 0 | 0 | 0 | 0 | 0 | 21.8   | 21.8   |
| T44  | 624350    | 4748471    | 312.84 | 177.84 | 0 | 100.8 | 100.8 | 1 | 1619.3 | 69.5 | 500  | 75.19 | 0 | -0.9 | 0 | 0 | 3.12   | 0 | 0 | 0 | 0 | 0 | 0 | 23.4   | 23.4   |





|      |           |            |        |        |   |       |       |   |        |      |      |       |   |      |   |   |        |   |   |   |   |   |        |        |
|------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|------|---|---|--------|---|---|---|---|---|--------|--------|
| MH03 | 623974    | 4745737    | 265.45 | 185.45 | 0 | 96.0  | 96.0  | 1 | 1565.7 | 43.1 | 4000 | 74.89 | 0 | -0.9 | 0 | 0 | 51.31  | 0 | 0 | 0 | 0 | 0 | -29.3  | -29.3  |
| MH03 | 623974    | 4745737    | 265.45 | 185.45 | 0 | 89.2  | 89.2  | 1 | 1565.7 | 43.1 | 8000 | 74.89 | 0 | -0.9 | 0 | 0 | 183    | 0 | 0 | 0 | 0 | 0 | -167.8 | -167.8 |
| T16  | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | -39.4 | -39.4 | 1 | 2205.1 | 69.5 | 32   | 77.87 | 0 | -3   | 0 | 0 | 0.07   | 0 | 0 | 0 | 0 | 0 | -114.3 | -114.3 |
| T16  | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 83.6  | 83.6  | 1 | 2205.1 | 69.5 | 63   | 77.87 | 0 | -3   | 0 | 0 | 0.27   | 0 | 0 | 0 | 0 | 0 | 8.5    | 8.5    |
| T16  | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 91.7  | 91.7  | 1 | 2205.1 | 69.5 | 125  | 77.87 | 0 | 1.78 | 0 | 0 | 0.91   | 0 | 0 | 0 | 0 | 0 | 11.1   | 11.1   |
| T16  | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 98.7  | 98.7  | 1 | 2205.1 | 69.5 | 250  | 77.87 | 0 | 0.07 | 0 | 0 | 2.3    | 0 | 0 | 0 | 0 | 0 | 18.5   | 18.5   |
| T16  | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 100.8 | 100.8 | 1 | 2205.1 | 69.5 | 500  | 77.87 | 0 | -0.9 | 0 | 0 | 4.25   | 0 | 0 | 0 | 0 | 0 | 19.6   | 19.6   |
| T16  | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 98.3  | 98.3  | 1 | 2205.1 | 69.5 | 1000 | 77.87 | 0 | -0.9 | 0 | 0 | 8.07   | 0 | 0 | 0 | 0 | 0 | 13.3   | 13.3   |
| T16  | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 92.8  | 92.8  | 1 | 2205.1 | 69.5 | 2000 | 77.87 | 0 | -0.9 | 0 | 0 | 21.31  | 0 | 0 | 0 | 0 | 0 | -5.5   | -5.5   |
| T16  | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 85.9  | 85.9  | 1 | 2205.1 | 69.5 | 4000 | 77.87 | 0 | -0.9 | 0 | 0 | 72.26  | 0 | 0 | 0 | 0 | 0 | -63.3  | -63.3  |
| T16  | 624153    | 4749242.91 | 311.29 | 176.29 | 0 | 73.3  | 73.3  | 1 | 2205.1 | 69.5 | 8000 | 77.87 | 0 | -0.9 | 0 | 0 | 257.74 | 0 | 0 | 0 | 0 | 0 | -261.4 | -261.4 |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | -39.4 | -39.4 | 1 | 1901.0 | 69.3 | 32   | 76.58 | 0 | -3   | 0 | 0 | 0.06   | 0 | 0 | 0 | 0 | 0 | -113.0 | -113.0 |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 86.6  | 86.6  | 1 | 1901.0 | 69.3 | 63   | 76.58 | 0 | -3   | 0 | 0 | 0.23   | 0 | 0 | 0 | 0 | 0 | 12.8   | 12.8   |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 94.7  | 94.7  | 1 | 1901.0 | 69.3 | 125  | 76.58 | 0 | 1.78 | 0 | 0 | 0.78   | 0 | 0 | 0 | 0 | 0 | 15.6   | 15.6   |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 94.4  | 94.4  | 1 | 1901.0 | 69.3 | 250  | 76.58 | 0 | 0.07 | 0 | 0 | 1.98   | 0 | 0 | 0 | 0 | 0 | 15.8   | 15.8   |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 97.3  | 97.3  | 1 | 1901.0 | 69.3 | 500  | 76.58 | 0 | -0.9 | 0 | 0 | 3.66   | 0 | 0 | 0 | 0 | 0 | 18.0   | 18.0   |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 98.7  | 98.7  | 1 | 1901.0 | 69.3 | 1000 | 76.58 | 0 | -0.9 | 0 | 0 | 6.95   | 0 | 0 | 0 | 0 | 0 | 16.1   | 16.1   |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 93.8  | 93.8  | 1 | 1901.0 | 69.3 | 2000 | 76.58 | 0 | -0.9 | 0 | 0 | 18.37  | 0 | 0 | 0 | 0 | 0 | -0.3   | -0.3   |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 81.5  | 81.5  | 1 | 1901.0 | 69.3 | 4000 | 76.58 | 0 | -0.9 | 0 | 0 | 62.3   | 0 | 0 | 0 | 0 | 0 | -56.5  | -56.5  |
| T46  | 622737    | 4748967.6  | 313    | 178    | 0 | 73.4  | 73.4  | 1 | 1901.0 | 69.3 | 8000 | 76.58 | 0 | -0.9 | 0 | 0 | 222.2  | 0 | 0 | 0 | 0 | 0 | -224.5 | -224.5 |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | -39.4 | -39.4 | 1 | 2283.3 | 69.5 | 32   | 78.17 | 0 | -3   | 0 | 0 | 0.07   | 0 | 0 | 0 | 0 | 0 | -114.6 | -114.6 |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 83.6  | 83.6  | 1 | 2283.3 | 69.5 | 63   | 78.17 | 0 | -3   | 0 | 0 | 0.28   | 0 | 0 | 0 | 0 | 0 | 8.2    | 8.2    |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 91.7  | 91.7  | 1 | 2283.3 | 69.5 | 125  | 78.17 | 0 | 1.78 | 0 | 0 | 0.94   | 0 | 0 | 0 | 0 | 0 | 10.8   | 10.8   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 98.7  | 98.7  | 1 | 2283.3 | 69.5 | 250  | 78.17 | 0 | 0.07 | 0 | 0 | 2.38   | 0 | 0 | 0 | 0 | 0 | 18.1   | 18.1   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 100.8 | 100.8 | 1 | 2283.3 | 69.5 | 500  | 78.17 | 0 | -0.9 | 0 | 0 | 4.4    | 0 | 0 | 0 | 0 | 0 | 19.1   | 19.1   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 98.3  | 98.3  | 1 | 2283.3 | 69.5 | 1000 | 78.17 | 0 | -0.9 | 0 | 0 | 8.35   | 0 | 0 | 0 | 0 | 0 | 12.7   | 12.7   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 92.8  | 92.8  | 1 | 2283.3 | 69.5 | 2000 | 78.17 | 0 | -0.9 | 0 | 0 | 22.07  | 0 | 0 | 0 | 0 | 0 | -6.5   | -6.5   |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 85.9  | 85.9  | 1 | 2283.3 | 69.5 | 4000 | 78.17 | 0 | -0.9 | 0 | 0 | 74.83  | 0 | 0 | 0 | 0 | 0 | -66.2  | -66.2  |
| T05  | 621171    | 4747754    | 314.78 | 179.78 | 0 | 73.3  | 73.3  | 1 | 2283.3 | 69.5 | 8000 | 78.17 | 0 | -0.9 | 0 | 0 | 266.88 | 0 | 0 | 0 | 0 | 0 | -270.9 | -270.9 |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | -39.4 | -39.4 | 1 | 2283.4 | 69.6 | 32   | 78.17 | 0 | -3   | 0 | 0 | 0.07   | 0 | 0 | 0 | 0 | 0 | -114.6 | -114.6 |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 83.6  | 83.6  | 1 | 2283.4 | 69.6 | 63   | 78.17 | 0 | -3   | 0 | 0 | 0.28   | 0 | 0 | 0 | 0 | 0 | 8.2    | 8.2    |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 91.7  | 91.7  | 1 | 2283.4 | 69.6 | 125  | 78.17 | 0 | 1.78 | 0 | 0 | 0.94   | 0 | 0 | 0 | 0 | 0 | 10.8   | 10.8   |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 98.7  | 98.7  | 1 | 2283.4 | 69.6 | 250  | 78.17 | 0 | 0.07 | 0 | 0 | 2.38   | 0 | 0 | 0 | 0 | 0 | 18.1   | 18.1   |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 100.8 | 100.8 | 1 | 2283.4 | 69.6 | 500  | 78.17 | 0 | -0.9 | 0 | 0 | 4.4    | 0 | 0 | 0 | 0 | 0 | 19.1   | 19.1   |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 98.3  | 98.3  | 1 | 2283.4 | 69.6 | 1000 | 78.17 | 0 | -0.9 | 0 | 0 | 8.35   | 0 | 0 | 0 | 0 | 0 | 12.7   | 12.7   |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 92.8  | 92.8  | 1 | 2283.4 | 69.6 | 2000 | 78.17 | 0 | -0.9 | 0 | 0 | 22.07  | 0 | 0 | 0 | 0 | 0 | -6.5   | -6.5   |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 85.9  | 85.9  | 1 | 2283.4 | 69.6 | 4000 | 78.17 | 0 | -0.9 | 0 | 0 | 74.83  | 0 | 0 | 0 | 0 | 0 | -66.2  | -66.2  |
| T43  | 624815.25 | 4748952.03 | 312.14 | 177.14 | 0 | 73.3  | 73.3  | 1 | 2283.4 | 69.6 | 8000 | 78.17 | 0 | -0.9 | 0 | 0 | 266.89 | 0 | 0 | 0 | 0 | 0 | -270.9 | -270.9 |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | -39.4 | -39.4 | 1 | 1784.6 | 44.4 | 32   | 76.03 | 0 | -3   | 0 | 0 | 0.06   | 0 | 0 | 0 | 0 | 0 | -112.5 | -112.5 |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 57.5  | 57.5  | 1 | 1784.6 | 44.4 | 63   | 76.03 | 0 | -3   | 0 | 0 | 0.22   | 0 | 0 | 0 | 0 | 0 | -15.8  | -15.8  |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 72.4  | 72.4  | 1 | 1784.6 | 44.4 | 125  | 76.03 | 0 | 1.78 | 0 | 0 | 0.73   | 0 | 0 | 0 | 0 | 0 | -6.2   | -6.2   |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 82.7  | 82.7  | 1 | 1784.6 | 44.4 | 250  | 76.03 | 0 | 0.07 | 0 | 0 | 1.86   | 0 | 0 | 0 | 0 | 0 | 4.7    | 4.7    |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 90.4  | 90.4  | 1 | 1784.6 | 44.4 | 500  | 76.03 | 0 | -0.9 | 0 | 0 | 3.44   | 0 | 0 | 0 | 0 | 0 | 11.8   | 11.8   |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 96.8  | 96.8  | 1 | 1784.6 | 44.4 | 1000 | 76.03 | 0 | -0.9 | 0 | 0 | 6.53   | 0 | 0 | 0 | 0 | 0 | 15.1   | 15.1   |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 97.2  | 97.2  | 1 | 1784.6 | 44.4 | 2000 | 76.03 | 0 | -0.9 | 0 | 0 | 17.25  | 0 | 0 | 0 | 0 | 0 | 4.8    | 4.8    |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 96.0  | 96.0  | 1 | 1784.6 | 44.4 | 4000 | 76.03 | 0 | -0.9 | 0 | 0 | 58.48  | 0 | 0 | 0 | 0 | 0 | -37.6  | -37.6  |
| MH01 | 623355    | 4745400    | 268.15 | 188.15 | 0 | 89.2  | 89.2  | 1 | 1784.6 | 44.4 | 8000 | 76.03 | 0 | -0.9 | 0 | 0 | 208.58 | 0 | 0 | 0 | 0 | 0 | -194.5 | -194.5 |





|         |           |            |        |        |   |       |       |   |        |      |      |       |   |       |   |   |        |   |   |   |   |   |   |        |        |
|---------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|-------|---|---|--------|---|---|---|---|---|---|--------|--------|
| T89     | 623216.37 | 4753159.84 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 5981.0 | 72.0 | 500  | 86.54 | 0 | -1.17 | 0 | 0 | 11.53  | 0 | 0 | 0 | 0 | 0 | 0 | 3.9    | 3.9    |
| T89     | 623216.37 | 4753159.84 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 5981.0 | 72.0 | 1000 | 86.54 | 0 | -1.17 | 0 | 0 | 21.88  | 0 | 0 | 0 | 0 | 0 | 0 | -8.9   | -8.9   |
| T89     | 623216.37 | 4753159.84 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 5981.0 | 72.0 | 2000 | 86.54 | 0 | -1.17 | 0 | 0 | 57.8   | 0 | 0 | 0 | 0 | 0 | 0 | -50.4  | -50.4  |
| T89     | 623216.37 | 4753159.84 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 5981.0 | 72.0 | 4000 | 86.54 | 0 | -1.17 | 0 | 0 | 196    | 0 | 0 | 0 | 0 | 0 | 0 | -195.5 | -195.5 |
| T89     | 623216.37 | 4753159.84 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 5981.0 | 72.0 | 8000 | 86.54 | 0 | -1.17 | 0 | 0 | 699.07 | 0 | 0 | 0 | 0 | 0 | 0 | -711.1 | -711.1 |
| T84     | 622487.06 | 4753392.69 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 6275.2 | 71.9 | 32   | 86.95 | 0 | -4    | 0 | 0 | 0.2    | 0 | 0 | 0 | 0 | 0 | 0 | -122.6 | -122.6 |
| T84     | 622487.06 | 4753392.69 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 6275.2 | 71.9 | 63   | 86.95 | 0 | -4    | 0 | 0 | 0.76   | 0 | 0 | 0 | 0 | 0 | 0 | -0.1   | -0.1   |
| T84     | 622487.06 | 4753392.69 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 6275.2 | 71.9 | 125  | 86.95 | 0 | 1.48  | 0 | 0 | 2.58   | 0 | 0 | 0 | 0 | 0 | 0 | 0.7    | 0.7    |
| T84     | 622487.06 | 4753392.69 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 6275.2 | 71.9 | 250  | 86.95 | 0 | -0.23 | 0 | 0 | 6.55   | 0 | 0 | 0 | 0 | 0 | 0 | 5.4    | 5.4    |
| T84     | 622487.06 | 4753392.69 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 6275.2 | 71.9 | 500  | 86.95 | 0 | -1.2  | 0 | 0 | 12.1   | 0 | 0 | 0 | 0 | 0 | 0 | 3.0    | 3.0    |
| T84     | 622487.06 | 4753392.69 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 6275.2 | 71.9 | 1000 | 86.95 | 0 | -1.2  | 0 | 0 | 22.95  | 0 | 0 | 0 | 0 | 0 | 0 | -10.4  | -10.4  |
| T84     | 622487.06 | 4753392.69 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 6275.2 | 71.9 | 2000 | 86.95 | 0 | -1.2  | 0 | 0 | 60.64  | 0 | 0 | 0 | 0 | 0 | 0 | -53.6  | -53.6  |
| T84     | 622487.06 | 4753392.69 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 6275.2 | 71.9 | 4000 | 86.95 | 0 | -1.2  | 0 | 0 | 205.64 | 0 | 0 | 0 | 0 | 0 | 0 | -205.5 | -205.5 |
| T84     | 622487.06 | 4753392.69 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 6275.2 | 71.9 | 8000 | 86.95 | 0 | -1.2  | 0 | 0 | 733.45 | 0 | 0 | 0 | 0 | 0 | 0 | -745.9 | -745.9 |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 7308.6 | 71.4 | 32   | 88.28 | 0 | -4.28 | 0 | 0 | 0.23   | 0 | 0 | 0 | 0 | 0 | 0 | -123.6 | -123.6 |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 7308.6 | 71.4 | 63   | 88.28 | 0 | -4.28 | 0 | 0 | 0.89   | 0 | 0 | 0 | 0 | 0 | 0 | -1.3   | -1.3   |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 7308.6 | 71.4 | 125  | 88.28 | 0 | 1.4   | 0 | 0 | 3      | 0 | 0 | 0 | 0 | 0 | 0 | -1.0   | -1.0   |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 7308.6 | 71.4 | 250  | 88.28 | 0 | -0.31 | 0 | 0 | 7.63   | 0 | 0 | 0 | 0 | 0 | 0 | 3.1    | 3.1    |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 7308.6 | 71.4 | 500  | 88.28 | 0 | -1.28 | 0 | 0 | 14.09  | 0 | 0 | 0 | 0 | 0 | 0 | -0.3   | -0.3   |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 7308.6 | 71.4 | 1000 | 88.28 | 0 | -1.28 | 0 | 0 | 26.73  | 0 | 0 | 0 | 0 | 0 | 0 | -15.4  | -15.4  |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 7308.6 | 71.4 | 2000 | 88.28 | 0 | -1.28 | 0 | 0 | 70.63  | 0 | 0 | 0 | 0 | 0 | 0 | -64.8  | -64.8  |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 7308.6 | 71.4 | 4000 | 88.28 | 0 | -1.28 | 0 | 0 | 239.5  | 0 | 0 | 0 | 0 | 0 | 0 | -240.6 | -240.6 |
| T42     | 619935    | 4753628    | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 7308.6 | 71.4 | 8000 | 88.28 | 0 | -1.28 | 0 | 0 | 854.24 | 0 | 0 | 0 | 0 | 0 | 0 | -867.9 | -867.9 |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 7507.9 | 69.4 | 32   | 88.51 | 0 | -4.33 | 0 | 0 | 0.24   | 0 | 0 | 0 | 0 | 0 | 0 | -123.8 | -123.8 |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 7507.9 | 69.4 | 63   | 88.51 | 0 | -4.33 | 0 | 0 | 0.91   | 0 | 0 | 0 | 0 | 0 | 0 | -1.5   | -1.5   |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 7507.9 | 69.4 | 125  | 88.51 | 0 | 1.38  | 0 | 0 | 3.09   | 0 | 0 | 0 | 0 | 0 | 0 | -1.3   | -1.3   |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 7507.9 | 69.4 | 250  | 88.51 | 0 | -0.33 | 0 | 0 | 7.83   | 0 | 0 | 0 | 0 | 0 | 0 | 2.7    | 2.7    |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 7507.9 | 69.4 | 500  | 88.51 | 0 | -1.3  | 0 | 0 | 14.47  | 0 | 0 | 0 | 0 | 0 | 0 | -0.9   | -0.9   |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 7507.9 | 69.4 | 1000 | 88.51 | 0 | -1.3  | 0 | 0 | 27.46  | 0 | 0 | 0 | 0 | 0 | 0 | -16.4  | -16.4  |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 7507.9 | 69.4 | 2000 | 88.51 | 0 | -1.3  | 0 | 0 | 72.56  | 0 | 0 | 0 | 0 | 0 | 0 | -67.0  | -67.0  |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 7507.9 | 69.4 | 4000 | 88.51 | 0 | -1.3  | 0 | 0 | 246.03 | 0 | 0 | 0 | 0 | 0 | 0 | -247.3 | -247.3 |
| T65     | 622983.82 | 4754678.89 | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 7507.9 | 69.4 | 8000 | 88.51 | 0 | -1.3  | 0 | 0 | 877.53 | 0 | 0 | 0 | 0 | 0 | 0 | -891.4 | -891.4 |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | -39.4 | -39.4 | 1 | 7967.2 | 70.4 | 32   | 89.03 | 0 | -4.42 | 0 | 0 | 0.26   | 0 | 0 | 0 | 0 | 0 | 0 | -124.3 | -124.3 |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 83.6  | 83.6  | 1 | 7967.2 | 70.4 | 63   | 89.03 | 0 | -4.42 | 0 | 0 | 0.97   | 0 | 0 | 0 | 0 | 0 | 0 | -2.0   | -2.0   |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 91.7  | 91.7  | 1 | 7967.2 | 70.4 | 125  | 89.03 | 0 | 1.36  | 0 | 0 | 3.27   | 0 | 0 | 0 | 0 | 0 | 0 | -2.0   | -2.0   |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 98.7  | 98.7  | 1 | 7967.2 | 70.4 | 250  | 89.03 | 0 | -0.35 | 0 | 0 | 8.31   | 0 | 0 | 0 | 0 | 0 | 0 | 1.7    | 1.7    |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 100.8 | 100.8 | 1 | 7967.2 | 70.4 | 500  | 89.03 | 0 | -1.33 | 0 | 0 | 15.36  | 0 | 0 | 0 | 0 | 0 | 0 | -2.3   | -2.3   |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 98.3  | 98.3  | 1 | 7967.2 | 70.4 | 1000 | 89.03 | 0 | -1.33 | 0 | 0 | 29.14  | 0 | 0 | 0 | 0 | 0 | 0 | -18.5  | -18.5  |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 92.8  | 92.8  | 1 | 7967.2 | 70.4 | 2000 | 89.03 | 0 | -1.33 | 0 | 0 | 76.99  | 0 | 0 | 0 | 0 | 0 | 0 | -71.9  | -71.9  |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 85.9  | 85.9  | 1 | 7967.2 | 70.4 | 4000 | 89.03 | 0 | -1.33 | 0 | 0 | 261.08 | 0 | 0 | 0 | 0 | 0 | 0 | -262.9 | -262.9 |
| T98     | 617981.67 | 4753042.54 | 313.44 | 178.44 | 0 | 73.3  | 73.3  | 1 | 7967.2 | 70.4 | 8000 | 89.03 | 0 | -1.33 | 0 | 0 | 931.22 | 0 | 0 | 0 | 0 | 0 | 0 | -945.6 | -945.6 |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | -39.4 | -39.4 | 1 | 8409.3 | 55.5 | 32   | 89.5  | 0 | -4.89 | 0 | 0 | 0.27   | 0 | 0 | 0 | 0 | 0 | 0 | -124.3 | -124.3 |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 82.4  | 82.4  | 1 | 8409.3 | 55.5 | 63   | 89.5  | 0 | -4.89 | 0 | 0 | 1.02   | 0 | 0 | 0 | 0 | 0 | 0 | -3.2   | -3.2   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 93.0  | 93.0  | 1 | 8409.3 | 55.5 | 125  | 89.5  | 0 | 1.22  | 0 | 0 | 3.46   | 0 | 0 | 0 | 0 | 0 | 0 | -1.2   | -1.2   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 96.0  | 96.0  | 1 | 8409.3 | 55.5 | 250  | 89.5  | 0 | -0.49 | 0 | 0 | 8.77   | 0 | 0 | 0 | 0 | 0 | 0 | -1.8   | -1.8   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 99.8  | 99.8  | 1 | 8409.3 | 55.5 | 500  | 89.5  | 0 | -1.47 | 0 | 0 | 16.21  | 0 | 0 | 0 | 0 | 0 | 0 | -4.4   | -4.4   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 100.1 | 100.1 | 1 | 8409.3 | 55.5 | 1000 | 89.5  | 0 | -1.47 | 0 | 0 | 30.76  | 0 | 0 | 0 | 0 | 0 | 0 | -18.7  | -18.7  |

|         |           |            |        |        |   |       |       |   |        |      |      |       |   |       |   |   |         |   |   |   |   |   |         |         |
|---------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---------|---------|
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 96.5  | 96.5  | 1 | 8409.3 | 55.5 | 2000 | 89.5  | 0 | -1.47 | 0 | 0 | 81.27   | 0 | 0 | 0 | 0 | 0 | -72.8   | -72.8   |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 89.6  | 89.6  | 1 | 8409.3 | 55.5 | 4000 | 89.5  | 0 | -1.47 | 0 | 0 | 275.57  | 0 | 0 | 0 | 0 | 0 | -274.0  | -274.0  |
| GREPT58 | 614974    | 4747470    | 283.19 | 183.69 | 0 | 85.2  | 85.2  | 1 | 8409.3 | 55.5 | 8000 | 89.5  | 0 | -1.47 | 0 | 0 | 982.9   | 0 | 0 | 0 | 0 | 0 | -985.7  | -985.7  |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | -39.4 | -39.4 | 1 | 8651.3 | 55.7 | 32   | 89.74 | 0 | -4.92 | 0 | 0 | 0.28    | 0 | 0 | 0 | 0 | 0 | -124.5  | -124.5  |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 82.4  | 82.4  | 1 | 8651.3 | 55.7 | 63   | 89.74 | 0 | -4.92 | 0 | 0 | 1.05    | 0 | 0 | 0 | 0 | 0 | -3.5    | -3.5    |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 93.0  | 93.0  | 1 | 8651.3 | 55.7 | 125  | 89.74 | 0 | 1.21  | 0 | 0 | 3.56    | 0 | 0 | 0 | 0 | 0 | -1.5    | -1.5    |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 96.0  | 96.0  | 1 | 8651.3 | 55.7 | 250  | 89.74 | 0 | -0.5  | 0 | 0 | 9.03    | 0 | 0 | 0 | 0 | 0 | -2.3    | -2.3    |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 99.8  | 99.8  | 1 | 8651.3 | 55.7 | 500  | 89.74 | 0 | -1.47 | 0 | 0 | 16.68   | 0 | 0 | 0 | 0 | 0 | -5.2    | -5.2    |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 100.1 | 100.1 | 1 | 8651.3 | 55.7 | 1000 | 89.74 | 0 | -1.48 | 0 | 0 | 31.64   | 0 | 0 | 0 | 0 | 0 | -19.8   | -19.8   |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 96.5  | 96.5  | 1 | 8651.3 | 55.7 | 2000 | 89.74 | 0 | -1.48 | 0 | 0 | 83.61   | 0 | 0 | 0 | 0 | 0 | -75.4   | -75.4   |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 89.6  | 89.6  | 1 | 8651.3 | 55.7 | 4000 | 89.74 | 0 | -1.48 | 0 | 0 | 283.5   | 0 | 0 | 0 | 0 | 0 | -282.2  | -282.2  |
| GREPT61 | 614750    | 4747811    | 284.5  | 185    | 0 | 85.2  | 85.2  | 1 | 8651.3 | 55.7 | 8000 | 89.74 | 0 | -1.48 | 0 | 0 | 1011.18 | 0 | 0 | 0 | 0 | 0 | -1014.2 | -1014.2 |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | -39.4 | -39.4 | 1 | 8674.8 | 54.5 | 32   | 89.77 | 0 | -4.92 | 0 | 0 | 0.28    | 0 | 0 | 0 | 0 | 0 | -124.5  | -124.5  |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 82.4  | 82.4  | 1 | 8674.8 | 54.5 | 63   | 89.77 | 0 | -4.92 | 0 | 0 | 1.06    | 0 | 0 | 0 | 0 | 0 | -3.5    | -3.5    |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 93.0  | 93.0  | 1 | 8674.8 | 54.5 | 125  | 89.77 | 0 | 1.21  | 0 | 0 | 3.56    | 0 | 0 | 0 | 0 | 0 | -1.5    | -1.5    |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 96.0  | 96.0  | 1 | 8674.8 | 54.5 | 250  | 89.77 | 0 | -0.5  | 0 | 0 | 9.05    | 0 | 0 | 0 | 0 | 0 | -2.3    | -2.3    |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 99.8  | 99.8  | 1 | 8674.8 | 54.5 | 500  | 89.77 | 0 | -1.48 | 0 | 0 | 16.72   | 0 | 0 | 0 | 0 | 0 | -5.2    | -5.2    |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 100.1 | 100.1 | 1 | 8674.8 | 54.5 | 1000 | 89.77 | 0 | -1.48 | 0 | 0 | 31.73   | 0 | 0 | 0 | 0 | 0 | -19.9   | -19.9   |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 96.5  | 96.5  | 1 | 8674.8 | 54.5 | 2000 | 89.77 | 0 | -1.48 | 0 | 0 | 83.83   | 0 | 0 | 0 | 0 | 0 | -75.6   | -75.6   |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 89.6  | 89.6  | 1 | 8674.8 | 54.5 | 4000 | 89.77 | 0 | -1.48 | 0 | 0 | 284.27  | 0 | 0 | 0 | 0 | 0 | -283.0  | -283.0  |
| GREPT62 | 614705    | 4747338    | 281.29 | 181.79 | 0 | 85.2  | 85.2  | 1 | 8674.8 | 54.5 | 8000 | 89.77 | 0 | -1.48 | 0 | 0 | 1013.92 | 0 | 0 | 0 | 0 | 0 | -1017.0 | -1017.0 |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | -39.4 | -39.4 | 1 | 8754.9 | 54.9 | 32   | 89.85 | 0 | -4.93 | 0 | 0 | 0.28    | 0 | 0 | 0 | 0 | 0 | -124.6  | -124.6  |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 82.4  | 82.4  | 1 | 8754.9 | 54.9 | 63   | 89.85 | 0 | -4.93 | 0 | 0 | 1.07    | 0 | 0 | 0 | 0 | 0 | -3.6    | -3.6    |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 93.0  | 93.0  | 1 | 8754.9 | 54.9 | 125  | 89.85 | 0 | 1.2   | 0 | 0 | 3.6     | 0 | 0 | 0 | 0 | 0 | -1.7    | -1.7    |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 96.0  | 96.0  | 1 | 8754.9 | 54.9 | 250  | 89.85 | 0 | -0.51 | 0 | 0 | 9.13    | 0 | 0 | 0 | 0 | 0 | -2.5    | -2.5    |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 99.8  | 99.8  | 1 | 8754.9 | 54.9 | 500  | 89.85 | 0 | -1.48 | 0 | 0 | 16.88   | 0 | 0 | 0 | 0 | 0 | -5.5    | -5.5    |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 100.1 | 100.1 | 1 | 8754.9 | 54.9 | 1000 | 89.85 | 0 | -1.48 | 0 | 0 | 32.02   | 0 | 0 | 0 | 0 | 0 | -20.3   | -20.3   |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 96.5  | 96.5  | 1 | 8754.9 | 54.9 | 2000 | 89.85 | 0 | -1.48 | 0 | 0 | 84.61   | 0 | 0 | 0 | 0 | 0 | -76.5   | -76.5   |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 89.6  | 89.6  | 1 | 8754.9 | 54.9 | 4000 | 89.85 | 0 | -1.48 | 0 | 0 | 286.9   | 0 | 0 | 0 | 0 | 0 | -285.7  | -285.7  |
| GREPT60 | 614680    | 4748176    | 282.59 | 183.09 | 0 | 85.2  | 85.2  | 1 | 8754.9 | 54.9 | 8000 | 89.85 | 0 | -1.48 | 0 | 0 | 1023.29 | 0 | 0 | 0 | 0 | 0 | -1026.5 | -1026.5 |
| WF01    | 631359    | 4751252    | 270.12 | 175.12 | 0 | -38.7 | -38.7 | 1 | 8959.2 | 51.1 | 32   | 90.05 | 0 | -5    | 0 | 0 | 0.29    | 0 | 0 | 0 | 0 | 0 | -124.0  | -124.0  |
| WF01    | 631359    | 4751252    | 270.12 | 175.12 | 0 | 86.0  | 86.0  | 1 | 8959.2 | 51.1 | 63   | 90.05 | 0 | -5    | 0 | 0 | 1.09    | 0 | 0 | 0 | 0 | 0 | -0.1    | -0.1    |
| WF01    | 631359    | 4751252    | 270.12 | 175.12 | 0 | 91.0  | 91.0  | 1 | 8959.2 | 51.1 | 125  | 90.05 | 0 | 1.18  | 0 | 0 | 3.68    | 0 | 0 | 0 | 0 | 0 | -3.9    | -3.9    |
| WF01    | 631359    | 4751252    | 270.12 | 175.12 | 0 | 98.5  | 98.5  | 1 | 8959.2 | 51.1 | 250  | 90.05 | 0 | -0.53 | 0 | 0 | 9.35    | 0 | 0 | 0 | 0 | 0 | -0.4    | -0.4    |
| WF01    | 631359    | 4751252    | 270.12 | 175.12 | 0 | 95.4  | 95.4  | 1 | 8959.2 | 51.1 | 500  | 90.05 | 0 | -1.5  | 0 | 0 | 17.27   | 0 | 0 | 0 | 0 | 0 | -10.4   | -10.4   |
| WF01    | 631359    | 4751252    | 270.12 | 175.12 | 0 | 98.5  | 98.5  | 1 | 8959.2 | 51.1 | 1000 | 90.05 | 0 | -1.5  | 0 | 0 | 32.77   | 0 | 0 | 0 | 0 | 0 | -22.8   | -22.8   |
| WF01    | 631359    | 4751252    | 270.12 | 175.12 | 0 | 97.7  | 97.7  | 1 | 8959.2 | 51.1 | 2000 | 90.05 | 0 | -1.5  | 0 | 0 | 86.58   | 0 | 0 | 0 | 0 | 0 | -77.4   | -77.4   |
| WF01    | 631359    | 4751252    | 270.12 | 175.12 | 0 | 96.7  | 96.7  | 1 | 8959.2 | 51.1 | 4000 | 90.05 | 0 | -1.5  | 0 | 0 | 293.6   | 0 | 0 | 0 | 0 | 0 | -285.4  | -285.4  |
| WF01    | 631359    | 4751252    | 270.12 | 175.12 | 0 | 92.1  | 92.1  | 1 | 8959.2 | 51.1 | 8000 | 90.05 | 0 | -1.5  | 0 | 0 | 1047.17 | 0 | 0 | 0 | 0 | 0 | -1043.6 | -1043.6 |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 8857.5 | 68.9 | 32   | 89.95 | 0 | -4.58 | 0 | 0 | 0.28    | 0 | 0 | 0 | 0 | 0 | -125.1  | -125.1  |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 8857.5 | 68.9 | 63   | 89.95 | 0 | -4.58 | 0 | 0 | 1.08    | 0 | 0 | 0 | 0 | 0 | -2.8    | -2.8    |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 8857.5 | 68.9 | 125  | 89.95 | 0 | 1.31  | 0 | 0 | 3.64    | 0 | 0 | 0 | 0 | 0 | -3.2    | -3.2    |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 8857.5 | 68.9 | 250  | 89.95 | 0 | -0.4  | 0 | 0 | 9.24    | 0 | 0 | 0 | 0 | 0 | -0.1    | -0.1    |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 8857.5 | 68.9 | 500  | 89.95 | 0 | -1.37 | 0 | 0 | 17.08   | 0 | 0 | 0 | 0 | 0 | -4.9    | -4.9    |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 8857.5 | 68.9 | 1000 | 89.95 | 0 | -1.37 | 0 | 0 | 32.4    | 0 | 0 | 0 | 0 | 0 | -22.7   | -22.7   |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 8857.5 | 68.9 | 2000 | 89.95 | 0 | -1.37 | 0 | 0 | 85.6    | 0 | 0 | 0 | 0 | 0 | -81.4   | -81.4   |
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 8857.5 | 68.9 | 4000 | 89.95 | 0 | -1.37 | 0 | 0 | 290.26  | 0 | 0 | 0 | 0 | 0 | -292.9  | -292.9  |

|         |           |            |        |        |   |       |       |   |        |      |      |       |   |       |      |      |         |   |   |   |   |   |   |         |         |
|---------|-----------|------------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|-------|------|------|---------|---|---|---|---|---|---|---------|---------|
| T19     | 620379.61 | 4755516.08 | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 8857.5 | 68.9 | 8000 | 89.95 | 0 | -1.37 | 0    | 0    | 1035.28 | 0 | 0 | 0 | 0 | 0 | 0 | -1050.6 | -1050.6 |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | -39.4 | -39.4 | 1 | 9069.0 | 55.4 | 32   | 90.15 | 0 | -4.97 | 0    | 0    | 0.29    | 0 | 0 | 0 | 0 | 0 | 0 | -124.9  | -124.9  |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 82.4  | 82.4  | 1 | 9069.0 | 55.4 | 63   | 90.15 | 0 | -4.97 | 0    | 0    | 1.1     | 0 | 0 | 0 | 0 | 0 | 0 | -3.9    | -3.9    |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 93.0  | 93.0  | 1 | 9069.0 | 55.4 | 125  | 90.15 | 0 | 1.19  | 0    | 0    | 3.73    | 0 | 0 | 0 | 0 | 0 | 0 | -2.1    | -2.1    |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 96.0  | 96.0  | 1 | 9069.0 | 55.4 | 250  | 90.15 | 0 | -0.52 | 0    | 0    | 9.46    | 0 | 0 | 0 | 0 | 0 | 0 | -3.1    | -3.1    |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 99.8  | 99.8  | 1 | 9069.0 | 55.4 | 500  | 90.15 | 0 | -1.49 | 0    | 0    | 17.48   | 0 | 0 | 0 | 0 | 0 | 0 | -6.4    | -6.4    |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 100.1 | 100.1 | 1 | 9069.0 | 55.4 | 1000 | 90.15 | 0 | -1.49 | 0    | 0    | 33.17   | 0 | 0 | 0 | 0 | 0 | 0 | -21.7   | -21.7   |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 96.5  | 96.5  | 1 | 9069.0 | 55.4 | 2000 | 90.15 | 0 | -1.49 | 0    | 0    | 87.64   | 0 | 0 | 0 | 0 | 0 | 0 | -79.8   | -79.8   |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 89.6  | 89.6  | 1 | 9069.0 | 55.4 | 4000 | 90.15 | 0 | -1.49 | 0    | 0    | 297.19  | 0 | 0 | 0 | 0 | 0 | 0 | -296.3  | -296.3  |
| GREPT59 | 614326    | 4747732    | 284.49 | 184.99 | 0 | 85.2  | 85.2  | 1 | 9069.0 | 55.4 | 8000 | 90.15 | 0 | -1.49 | 0    | 0    | 1060.01 | 0 | 0 | 0 | 0 | 0 | 0 | -1063.5 | -1063.5 |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | -39.4 | -39.4 | 1 | 9071.7 | 55.5 | 32   | 90.15 | 0 | -4.97 | 0    | 0    | 0.29    | 0 | 0 | 0 | 0 | 0 | 0 | -124.9  | -124.9  |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 82.4  | 82.4  | 1 | 9071.7 | 55.5 | 63   | 90.15 | 0 | -4.97 | 0    | 0    | 1.1     | 0 | 0 | 0 | 0 | 0 | 0 | -3.9    | -3.9    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 93.0  | 93.0  | 1 | 9071.7 | 55.5 | 125  | 90.15 | 0 | 1.19  | 0    | 0    | 3.73    | 0 | 0 | 0 | 0 | 0 | 0 | -2.1    | -2.1    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 96.0  | 96.0  | 1 | 9071.7 | 55.5 | 250  | 90.15 | 0 | -0.52 | 0    | 0    | 9.47    | 0 | 0 | 0 | 0 | 0 | 0 | -3.1    | -3.1    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 99.8  | 99.8  | 1 | 9071.7 | 55.5 | 500  | 90.15 | 0 | -1.49 | 0    | 0    | 17.49   | 0 | 0 | 0 | 0 | 0 | 0 | -6.4    | -6.4    |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 100.1 | 100.1 | 1 | 9071.7 | 55.5 | 1000 | 90.15 | 0 | -1.49 | 0    | 0    | 33.18   | 0 | 0 | 0 | 0 | 0 | 0 | -21.7   | -21.7   |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 96.5  | 96.5  | 1 | 9071.7 | 55.5 | 2000 | 90.15 | 0 | -1.49 | 0    | 0    | 87.67   | 0 | 0 | 0 | 0 | 0 | 0 | -79.8   | -79.8   |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 89.6  | 89.6  | 1 | 9071.7 | 55.5 | 4000 | 90.15 | 0 | -1.49 | 0    | 0    | 297.28  | 0 | 0 | 0 | 0 | 0 | 0 | -296.4  | -296.4  |
| GREPT57 | 614355    | 4748118    | 284.5  | 185    | 0 | 85.2  | 85.2  | 1 | 9071.7 | 55.5 | 8000 | 90.15 | 0 | -1.49 | 0    | 0    | 1060.32 | 0 | 0 | 0 | 0 | 0 | 0 | -1063.8 | -1063.8 |
| WF02    | 631758    | 4750750    | 270.92 | 175.92 | 0 | -38.7 | -38.7 | 1 | 9108.4 | 51.2 | 32   | 90.19 | 0 | -5.02 | 0    | 0    | 0.29    | 0 | 0 | 0 | 0 | 0 | 0 | -124.2  | -124.2  |
| WF02    | 631758    | 4750750    | 270.92 | 175.92 | 0 | 86.0  | 86.0  | 1 | 9108.4 | 51.2 | 63   | 90.19 | 0 | -5.02 | 0    | 0    | 1.11    | 0 | 0 | 0 | 0 | 0 | 0 | -0.3    | -0.3    |
| WF02    | 631758    | 4750750    | 270.92 | 175.92 | 0 | 91.0  | 91.0  | 1 | 9108.4 | 51.2 | 125  | 90.19 | 0 | 1.18  | 0    | 0    | 3.74    | 0 | 0 | 0 | 0 | 0 | 0 | -4.1    | -4.1    |
| WF02    | 631758    | 4750750    | 270.92 | 175.92 | 0 | 98.5  | 98.5  | 1 | 9108.4 | 51.2 | 250  | 90.19 | 0 | -0.53 | 0    | 0    | 9.5     | 0 | 0 | 0 | 0 | 0 | 0 | -0.7    | -0.7    |
| WF02    | 631758    | 4750750    | 270.92 | 175.92 | 0 | 95.4  | 95.4  | 1 | 9108.4 | 51.2 | 500  | 90.19 | 0 | -1.5  | 0    | 0    | 17.56   | 0 | 0 | 0 | 0 | 0 | 0 | -10.8   | -10.8   |
| WF02    | 631758    | 4750750    | 270.92 | 175.92 | 0 | 98.5  | 98.5  | 1 | 9108.4 | 51.2 | 1000 | 90.19 | 0 | -1.51 | 0    | 0    | 33.32   | 0 | 0 | 0 | 0 | 0 | 0 | -23.5   | -23.5   |
| WF02    | 631758    | 4750750    | 270.92 | 175.92 | 0 | 97.7  | 97.7  | 1 | 9108.4 | 51.2 | 2000 | 90.19 | 0 | -1.51 | 0    | 0    | 88.02   | 0 | 0 | 0 | 0 | 0 | 0 | -79.0   | -79.0   |
| WF02    | 631758    | 4750750    | 270.92 | 175.92 | 0 | 96.7  | 96.7  | 1 | 9108.4 | 51.2 | 4000 | 90.19 | 0 | -1.51 | 0    | 0    | 298.48  | 0 | 0 | 0 | 0 | 0 | 0 | -290.5  | -290.5  |
| WF02    | 631758    | 4750750    | 270.92 | 175.92 | 0 | 92.1  | 92.1  | 1 | 9108.4 | 51.2 | 8000 | 90.19 | 0 | -1.51 | 0    | 0    | 1064.61 | 0 | 0 | 0 | 0 | 0 | 0 | -1061.2 | -1061.2 |
| WF03    | 631921    | 4750541    | 271.25 | 176.25 | 0 | -38.7 | -38.7 | 1 | 9180.1 | 51.2 | 32   | 90.26 | 0 | -5.02 | 0    | 0    | 0.29    | 0 | 0 | 0 | 0 | 0 | 0 | -124.2  | -124.2  |
| WF03    | 631921    | 4750541    | 271.25 | 176.25 | 0 | 86.0  | 86.0  | 1 | 9180.1 | 51.2 | 63   | 90.26 | 0 | -5.02 | 0    | 0    | 1.12    | 0 | 0 | 0 | 0 | 0 | 0 | -0.4    | -0.4    |
| WF03    | 631921    | 4750541    | 271.25 | 176.25 | 0 | 91.0  | 91.0  | 1 | 9180.1 | 51.2 | 125  | 90.26 | 0 | 1.18  | 0    | 0    | 3.77    | 0 | 0 | 0 | 0 | 0 | 0 | -4.2    | -4.2    |
| WF03    | 631921    | 4750541    | 271.25 | 176.25 | 0 | 98.5  | 98.5  | 1 | 9180.1 | 51.2 | 250  | 90.26 | 0 | -0.53 | 0    | 0    | 9.58    | 0 | 0 | 0 | 0 | 0 | 0 | -0.8    | -0.8    |
| WF03    | 631921    | 4750541    | 271.25 | 176.25 | 0 | 95.4  | 95.4  | 1 | 9180.1 | 51.2 | 500  | 90.26 | 0 | -1.51 | 0    | 0    | 17.7    | 0 | 0 | 0 | 0 | 0 | 0 | -11.1   | -11.1   |
| WF03    | 631921    | 4750541    | 271.25 | 176.25 | 0 | 98.5  | 98.5  | 1 | 9180.1 | 51.2 | 1000 | 90.26 | 0 | -1.51 | 0    | 0    | 33.58   | 0 | 0 | 0 | 0 | 0 | 0 | -23.8   | -23.8   |
| WF03    | 631921    | 4750541    | 271.25 | 176.25 | 0 | 97.7  | 97.7  | 1 | 9180.1 | 51.2 | 2000 | 90.26 | 0 | -1.51 | 0    | 0    | 88.72   | 0 | 0 | 0 | 0 | 0 | 0 | -79.8   | -79.8   |
| WF03    | 631921    | 4750541    | 271.25 | 176.25 | 0 | 96.7  | 96.7  | 1 | 9180.1 | 51.2 | 4000 | 90.26 | 0 | -1.51 | 0    | 0    | 300.83  | 0 | 0 | 0 | 0 | 0 | 0 | -292.9  | -292.9  |
| WF03    | 631921    | 4750541    | 271.25 | 176.25 | 0 | 92.1  | 92.1  | 1 | 9180.1 | 51.2 | 8000 | 90.26 | 0 | -1.51 | 0    | 0    | 1072.98 | 0 | 0 | 0 | 0 | 0 | 0 | -1069.6 | -1069.6 |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 50.6  | 50.6  | 1 | 7515.7 | 4.5  | 32   | 88.52 | 0 | -5.9  | 4.77 | 0.02 | 0.24    | 0 | 0 | 0 | 0 | 0 | 0 | -37.0   | -37.0   |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 72.8  | 72.8  | 1 | 7515.7 | 4.5  | 63   | 88.52 | 0 | -5.9  | 4.77 | 0.02 | 0.91    | 0 | 0 | 0 | 0 | 0 | 0 | -15.5   | -15.5   |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 87.9  | 87.9  | 1 | 7515.7 | 4.5  | 125  | 88.52 | 0 | 3.79  | 0.98 | 0.02 | 3.09    | 0 | 0 | 0 | 0 | 0 | 0 | -8.5    | -8.5    |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 94.4  | 94.4  | 1 | 7515.7 | 4.5  | 250  | 88.52 | 0 | 0.96  | 3.81 | 0.02 | 7.84    | 0 | 0 | 0 | 0 | 0 | 0 | -6.7    | -6.7    |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 99.8  | 99.8  | 1 | 7515.7 | 4.5  | 500  | 88.52 | 0 | -1.75 | 4.77 | 0.02 | 14.49   | 0 | 0 | 0 | 0 | 0 | 0 | -6.2    | -6.2    |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 97.0  | 97.0  | 1 | 7515.7 | 4.5  | 1000 | 88.52 | 0 | -1.77 | 4.77 | 0.02 | 27.49   | 0 | 0 | 0 | 0 | 0 | 0 | -22.0   | -22.0   |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 93.2  | 93.2  | 1 | 7515.7 | 4.5  | 2000 | 88.52 | 0 | -1.77 | 4.77 | 0.02 | 72.63   | 0 | 0 | 0 | 0 | 0 | 0 | -71.0   | -71.0   |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 88.0  | 88.0  | 1 | 7515.7 | 4.5  | 4000 | 88.52 | 0 | -1.77 | 4.77 | 0.02 | 246.29  | 0 | 0 | 0 | 0 | 0 | 0 | -249.8  | -249.8  |
| ST2     | 622836.55 | 4754678.58 | 178.7  | 175    | 0 | 78.9  | 78.9  | 1 | 7515.7 | 4.5  | 8000 | 88.52 | 0 | -1.77 | 4.77 | 0.02 | 878.44  | 0 | 0 | 0 | 0 | 0 | 0 | -891.1  | -891.1  |
| T13     | 621410    | 4756122    | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 9154.4 | 69.6 | 32   | 90.23 | 0 | -4.63 | 0    | 0    | 0.29    | 0 | 0 | 0 | 0 | 0 | 0 | -125.3  | -125.3  |

|      |          |           |        |        |   |       |       |   |        |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|------|----------|-----------|--------|--------|---|-------|-------|---|--------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T13  | 621410   | 4756122   | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 9154.4 | 69.6 | 63   | 90.23 | 0 | -4.63 | 0 | 0 | 1.11    | 0 | 0 | 0 | 0 | 0 | 0 | -3.1    | -3.1    |
| T13  | 621410   | 4756122   | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 9154.4 | 69.6 | 125  | 90.23 | 0 | 1.29  | 0 | 0 | 3.76    | 0 | 0 | 0 | 0 | 0 | 0 | -3.6    | -3.6    |
| T13  | 621410   | 4756122   | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 9154.4 | 69.6 | 250  | 90.23 | 0 | -0.42 | 0 | 0 | 9.55    | 0 | 0 | 0 | 0 | 0 | 0 | -0.7    | -0.7    |
| T13  | 621410   | 4756122   | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 9154.4 | 69.6 | 500  | 90.23 | 0 | -1.39 | 0 | 0 | 17.65   | 0 | 0 | 0 | 0 | 0 | 0 | -5.7    | -5.7    |
| T13  | 621410   | 4756122   | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 9154.4 | 69.6 | 1000 | 90.23 | 0 | -1.39 | 0 | 0 | 33.48   | 0 | 0 | 0 | 0 | 0 | 0 | -24.0   | -24.0   |
| T13  | 621410   | 4756122   | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 9154.4 | 69.6 | 2000 | 90.23 | 0 | -1.39 | 0 | 0 | 88.47   | 0 | 0 | 0 | 0 | 0 | 0 | -84.5   | -84.5   |
| T13  | 621410   | 4756122   | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 9154.4 | 69.6 | 4000 | 90.23 | 0 | -1.39 | 0 | 0 | 299.99  | 0 | 0 | 0 | 0 | 0 | 0 | -302.9  | -302.9  |
| T13  | 621410   | 4756122   | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 9154.4 | 69.6 | 8000 | 90.23 | 0 | -1.39 | 0 | 0 | 1069.99 | 0 | 0 | 0 | 0 | 0 | 0 | -1085.5 | -1085.5 |
| T82  | 618390   | 4754915   | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 9202.5 | 68.6 | 32   | 90.28 | 0 | -4.64 | 0 | 0 | 0.29    | 0 | 0 | 0 | 0 | 0 | 0 | -125.3  | -125.3  |
| T82  | 618390   | 4754915   | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 9202.5 | 68.6 | 63   | 90.28 | 0 | -4.64 | 0 | 0 | 1.12    | 0 | 0 | 0 | 0 | 0 | 0 | -3.2    | -3.2    |
| T82  | 618390   | 4754915   | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 9202.5 | 68.6 | 125  | 90.28 | 0 | 1.29  | 0 | 0 | 3.78    | 0 | 0 | 0 | 0 | 0 | 0 | -3.7    | -3.7    |
| T82  | 618390   | 4754915   | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 9202.5 | 68.6 | 250  | 90.28 | 0 | -0.42 | 0 | 0 | 9.6     | 0 | 0 | 0 | 0 | 0 | 0 | -0.8    | -0.8    |
| T82  | 618390   | 4754915   | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 9202.5 | 68.6 | 500  | 90.28 | 0 | -1.39 | 0 | 0 | 17.74   | 0 | 0 | 0 | 0 | 0 | 0 | -5.8    | -5.8    |
| T82  | 618390   | 4754915   | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 9202.5 | 68.6 | 1000 | 90.28 | 0 | -1.39 | 0 | 0 | 33.66   | 0 | 0 | 0 | 0 | 0 | 0 | -24.3   | -24.3   |
| T82  | 618390   | 4754915   | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 9202.5 | 68.6 | 2000 | 90.28 | 0 | -1.39 | 0 | 0 | 88.93   | 0 | 0 | 0 | 0 | 0 | 0 | -85.0   | -85.0   |
| T82  | 618390   | 4754915   | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 9202.5 | 68.6 | 4000 | 90.28 | 0 | -1.39 | 0 | 0 | 301.57  | 0 | 0 | 0 | 0 | 0 | 0 | -304.6  | -304.6  |
| T82  | 618390   | 4754915   | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 9202.5 | 68.6 | 8000 | 90.28 | 0 | -1.39 | 0 | 0 | 1075.61 | 0 | 0 | 0 | 0 | 0 | 0 | -1091.2 | -1091.2 |
| WF04 | 632750   | 4748389   | 273.81 | 178.81 | 0 | -38.7 | -38.7 | 1 | 9450.0 | 53.0 | 32   | 90.51 | 0 | -5.05 | 0 | 0 | 0.3     | 0 | 0 | 0 | 0 | 0 | 0 | -124.5  | -124.5  |
| WF04 | 632750   | 4748389   | 273.81 | 178.81 | 0 | 86.0  | 86.0  | 1 | 9450.0 | 53.0 | 63   | 90.51 | 0 | -5.05 | 0 | 0 | 1.15    | 0 | 0 | 0 | 0 | 0 | 0 | -0.6    | -0.6    |
| WF04 | 632750   | 4748389   | 273.81 | 178.81 | 0 | 91.0  | 91.0  | 1 | 9450.0 | 53.0 | 125  | 90.51 | 0 | 1.17  | 0 | 0 | 3.88    | 0 | 0 | 0 | 0 | 0 | 0 | -4.6    | -4.6    |
| WF04 | 632750   | 4748389   | 273.81 | 178.81 | 0 | 98.5  | 98.5  | 1 | 9450.0 | 53.0 | 250  | 90.51 | 0 | -0.54 | 0 | 0 | 9.86    | 0 | 0 | 0 | 0 | 0 | 0 | -1.3    | -1.3    |
| WF04 | 632750   | 4748389   | 273.81 | 178.81 | 0 | 95.4  | 95.4  | 1 | 9450.0 | 53.0 | 500  | 90.51 | 0 | -1.51 | 0 | 0 | 18.22   | 0 | 0 | 0 | 0 | 0 | 0 | -11.8   | -11.8   |
| WF04 | 632750   | 4748389   | 273.81 | 178.81 | 0 | 98.5  | 98.5  | 1 | 9450.0 | 53.0 | 1000 | 90.51 | 0 | -1.52 | 0 | 0 | 34.56   | 0 | 0 | 0 | 0 | 0 | 0 | -25.1   | -25.1   |
| WF04 | 632750   | 4748389   | 273.81 | 178.81 | 0 | 97.7  | 97.7  | 1 | 9450.0 | 53.0 | 2000 | 90.51 | 0 | -1.52 | 0 | 0 | 91.32   | 0 | 0 | 0 | 0 | 0 | 0 | -82.6   | -82.6   |
| WF04 | 632750   | 4748389   | 273.81 | 178.81 | 0 | 96.7  | 96.7  | 1 | 9450.0 | 53.0 | 4000 | 90.51 | 0 | -1.52 | 0 | 0 | 309.68  | 0 | 0 | 0 | 0 | 0 | 0 | -302.0  | -302.0  |
| WF04 | 632750   | 4748389   | 273.81 | 178.81 | 0 | 92.1  | 92.1  | 1 | 9450.0 | 53.0 | 8000 | 90.51 | 0 | -1.52 | 0 | 0 | 1104.53 | 0 | 0 | 0 | 0 | 0 | 0 | -1101.4 | -1101.4 |
| WF05 | 632706   | 4748817   | 272.08 | 177.08 | 0 | -38.7 | -38.7 | 1 | 9470.7 | 51.4 | 32   | 90.53 | 0 | -5.05 | 0 | 0 | 0.3     | 0 | 0 | 0 | 0 | 0 | 0 | -124.5  | -124.5  |
| WF05 | 632706   | 4748817   | 272.08 | 177.08 | 0 | 86.0  | 86.0  | 1 | 9470.7 | 51.4 | 63   | 90.53 | 0 | -5.05 | 0 | 0 | 1.15    | 0 | 0 | 0 | 0 | 0 | 0 | -0.6    | -0.6    |
| WF05 | 632706   | 4748817   | 272.08 | 177.08 | 0 | 91.0  | 91.0  | 1 | 9470.7 | 51.4 | 125  | 90.53 | 0 | 1.17  | 0 | 0 | 3.89    | 0 | 0 | 0 | 0 | 0 | 0 | -4.6    | -4.6    |
| WF05 | 632706   | 4748817   | 272.08 | 177.08 | 0 | 98.5  | 98.5  | 1 | 9470.7 | 51.4 | 250  | 90.53 | 0 | -0.54 | 0 | 0 | 9.88    | 0 | 0 | 0 | 0 | 0 | 0 | -1.4    | -1.4    |
| WF05 | 632706   | 4748817   | 272.08 | 177.08 | 0 | 95.4  | 95.4  | 1 | 9470.7 | 51.4 | 500  | 90.53 | 0 | -1.52 | 0 | 0 | 18.26   | 0 | 0 | 0 | 0 | 0 | 0 | -11.9   | -11.9   |
| WF05 | 632706   | 4748817   | 272.08 | 177.08 | 0 | 98.5  | 98.5  | 1 | 9470.7 | 51.4 | 1000 | 90.53 | 0 | -1.52 | 0 | 0 | 34.64   | 0 | 0 | 0 | 0 | 0 | 0 | -25.2   | -25.2   |
| WF05 | 632706   | 4748817   | 272.08 | 177.08 | 0 | 97.7  | 97.7  | 1 | 9470.7 | 51.4 | 2000 | 90.53 | 0 | -1.52 | 0 | 0 | 91.52   | 0 | 0 | 0 | 0 | 0 | 0 | -82.8   | -82.8   |
| WF05 | 632706   | 4748817   | 272.08 | 177.08 | 0 | 96.7  | 96.7  | 1 | 9470.7 | 51.4 | 4000 | 90.53 | 0 | -1.52 | 0 | 0 | 310.36  | 0 | 0 | 0 | 0 | 0 | 0 | -302.7  | -302.7  |
| WF05 | 632706   | 4748817   | 272.08 | 177.08 | 0 | 92.1  | 92.1  | 1 | 9470.7 | 51.4 | 8000 | 90.53 | 0 | -1.52 | 0 | 0 | 1106.96 | 0 | 0 | 0 | 0 | 0 | 0 | -1103.9 | -1103.9 |
| T12  | 621135.3 | 4756407   | 310.2  | 175.2  | 0 | -39.4 | -39.4 | 1 | 9494.1 | 69.6 | 32   | 90.55 | 0 | -4.68 | 0 | 0 | 0.3     | 0 | 0 | 0 | 0 | 0 | 0 | -125.6  | -125.6  |
| T12  | 621135.3 | 4756407   | 310.2  | 175.2  | 0 | 83.6  | 83.6  | 1 | 9494.1 | 69.6 | 63   | 90.55 | 0 | -4.68 | 0 | 0 | 1.16    | 0 | 0 | 0 | 0 | 0 | 0 | -3.4    | -3.4    |
| T12  | 621135.3 | 4756407   | 310.2  | 175.2  | 0 | 91.7  | 91.7  | 1 | 9494.1 | 69.6 | 125  | 90.55 | 0 | 1.28  | 0 | 0 | 3.9     | 0 | 0 | 0 | 0 | 0 | 0 | -4.0    | -4.0    |
| T12  | 621135.3 | 4756407   | 310.2  | 175.2  | 0 | 98.7  | 98.7  | 1 | 9494.1 | 69.6 | 250  | 90.55 | 0 | -0.43 | 0 | 0 | 9.91    | 0 | 0 | 0 | 0 | 0 | 0 | -1.3    | -1.3    |
| T12  | 621135.3 | 4756407   | 310.2  | 175.2  | 0 | 100.8 | 100.8 | 1 | 9494.1 | 69.6 | 500  | 90.55 | 0 | -1.4  | 0 | 0 | 18.3    | 0 | 0 | 0 | 0 | 0 | 0 | -6.7    | -6.7    |
| T12  | 621135.3 | 4756407   | 310.2  | 175.2  | 0 | 98.3  | 98.3  | 1 | 9494.1 | 69.6 | 1000 | 90.55 | 0 | -1.4  | 0 | 0 | 34.73   | 0 | 0 | 0 | 0 | 0 | 0 | -25.6   | -25.6   |
| T12  | 621135.3 | 4756407   | 310.2  | 175.2  | 0 | 92.8  | 92.8  | 1 | 9494.1 | 69.6 | 2000 | 90.55 | 0 | -1.4  | 0 | 0 | 91.75   | 0 | 0 | 0 | 0 | 0 | 0 | -88.1   | -88.1   |
| T12  | 621135.3 | 4756407   | 310.2  | 175.2  | 0 | 85.9  | 85.9  | 1 | 9494.1 | 69.6 | 4000 | 90.55 | 0 | -1.4  | 0 | 0 | 311.12  | 0 | 0 | 0 | 0 | 0 | 0 | -314.4  | -314.4  |
| T12  | 621135.3 | 4756407   | 310.2  | 175.2  | 0 | 73.3  | 73.3  | 1 | 9494.1 | 69.6 | 8000 | 90.55 | 0 | -1.4  | 0 | 0 | 1109.68 | 0 | 0 | 0 | 0 | 0 | 0 | -1125.5 | -1125.5 |
| T11  | 620836   | 4756609.3 | 310.87 | 175.87 | 0 | -39.4 | -39.4 | 1 | 9764.4 | 69.8 | 32   | 90.79 | 0 | -4.71 | 0 | 0 | 0.31    | 0 | 0 | 0 | 0 | 0 | 0 | -125.8  | -125.8  |
| T11  | 620836   | 4756609.3 | 310.87 | 175.87 | 0 | 83.6  | 83.6  | 1 | 9764.4 | 69.8 | 63   | 90.79 | 0 | -4.71 | 0 | 0 | 1.19    | 0 | 0 | 0 | 0 | 0 | 0 | -3.7    | -3.7    |
| T11  | 620836   | 4756609.3 | 310.87 | 175.87 | 0 | 91.7  | 91.7  | 1 | 9764.4 | 69.8 | 125  | 90.79 | 0 | 1.27  | 0 | 0 | 4.01    | 0 | 0 | 0 | 0 | 0 | 0 | -4.4    | -4.4    |



|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---------|---------|
| T11 | 620836    | 4756609.3  | 310.87 | 175.87 | 0 | 98.7  | 98.7  | 1 | 9764.4  | 69.8 | 250  | 90.79 | 0 | -0.44 | 0 | 0 | 10.19   | 0 | 0 | 0 | 0 | 0 | -1.8    | -1.8    |
| T11 | 620836    | 4756609.3  | 310.87 | 175.87 | 0 | 100.8 | 100.8 | 1 | 9764.4  | 69.8 | 500  | 90.79 | 0 | -1.41 | 0 | 0 | 18.82   | 0 | 0 | 0 | 0 | 0 | -7.4    | -7.4    |
| T11 | 620836    | 4756609.3  | 310.87 | 175.87 | 0 | 98.3  | 98.3  | 1 | 9764.4  | 69.8 | 1000 | 90.79 | 0 | -1.41 | 0 | 0 | 35.71   | 0 | 0 | 0 | 0 | 0 | -26.8   | -26.8   |
| T11 | 620836    | 4756609.3  | 310.87 | 175.87 | 0 | 92.8  | 92.8  | 1 | 9764.4  | 69.8 | 2000 | 90.79 | 0 | -1.41 | 0 | 0 | 94.36   | 0 | 0 | 0 | 0 | 0 | -90.9   | -90.9   |
| T11 | 620836    | 4756609.3  | 310.87 | 175.87 | 0 | 85.9  | 85.9  | 1 | 9764.4  | 69.8 | 4000 | 90.79 | 0 | -1.41 | 0 | 0 | 319.98  | 0 | 0 | 0 | 0 | 0 | -323.5  | -323.5  |
| T11 | 620836    | 4756609.3  | 310.87 | 175.87 | 0 | 73.3  | 73.3  | 1 | 9764.4  | 69.8 | 8000 | 90.79 | 0 | -1.41 | 0 | 0 | 1141.28 | 0 | 0 | 0 | 0 | 0 | -1157.4 | -1157.4 |
| T91 | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | -39.4 | -39.4 | 1 | 9771.4  | 69.3 | 32   | 90.8  | 0 | -4.72 | 0 | 0 | 0.31    | 0 | 0 | 0 | 0 | 0 | -125.8  | -125.8  |
| T91 | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 83.6  | 83.6  | 1 | 9771.4  | 69.3 | 63   | 90.8  | 0 | -4.72 | 0 | 0 | 1.19    | 0 | 0 | 0 | 0 | 0 | -3.7    | -3.7    |
| T91 | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 91.7  | 91.7  | 1 | 9771.4  | 69.3 | 125  | 90.8  | 0 | 1.27  | 0 | 0 | 4.02    | 0 | 0 | 0 | 0 | 0 | -4.4    | -4.4    |
| T91 | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 98.7  | 98.7  | 1 | 9771.4  | 69.3 | 250  | 90.8  | 0 | -0.44 | 0 | 0 | 10.2    | 0 | 0 | 0 | 0 | 0 | -1.9    | -1.9    |
| T91 | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 100.8 | 100.8 | 1 | 9771.4  | 69.3 | 500  | 90.8  | 0 | -1.41 | 0 | 0 | 18.84   | 0 | 0 | 0 | 0 | 0 | -7.4    | -7.4    |
| T91 | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 98.3  | 98.3  | 1 | 9771.4  | 69.3 | 1000 | 90.8  | 0 | -1.41 | 0 | 0 | 35.74   | 0 | 0 | 0 | 0 | 0 | -26.8   | -26.8   |
| T91 | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 92.8  | 92.8  | 1 | 9771.4  | 69.3 | 2000 | 90.8  | 0 | -1.41 | 0 | 0 | 94.43   | 0 | 0 | 0 | 0 | 0 | -91.0   | -91.0   |
| T91 | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 85.9  | 85.9  | 1 | 9771.4  | 69.3 | 4000 | 90.8  | 0 | -1.41 | 0 | 0 | 320.21  | 0 | 0 | 0 | 0 | 0 | -323.7  | -323.7  |
| T91 | 620503.94 | 4756520.82 | 310.05 | 175.05 | 0 | 73.3  | 73.3  | 1 | 9771.4  | 69.3 | 8000 | 90.8  | 0 | -1.41 | 0 | 0 | 1142.1  | 0 | 0 | 0 | 0 | 0 | -1158.2 | -1158.2 |
| T41 | 620998    | 4756850.97 | 311.43 | 176.43 | 0 | -39.4 | -39.4 | 1 | 9957.9  | 70.3 | 32   | 90.96 | 0 | -4.74 | 0 | 0 | 0.32    | 0 | 0 | 0 | 0 | 0 | -125.9  | -125.9  |
| T41 | 620998    | 4756850.97 | 311.43 | 176.43 | 0 | 83.6  | 83.6  | 1 | 9957.9  | 70.3 | 63   | 90.96 | 0 | -4.74 | 0 | 0 | 1.21    | 0 | 0 | 0 | 0 | 0 | -3.8    | -3.8    |
| T41 | 620998    | 4756850.97 | 311.43 | 176.43 | 0 | 91.7  | 91.7  | 1 | 9957.9  | 70.3 | 125  | 90.96 | 0 | 1.26  | 0 | 0 | 4.09    | 0 | 0 | 0 | 0 | 0 | -4.6    | -4.6    |
| T41 | 620998    | 4756850.97 | 311.43 | 176.43 | 0 | 98.7  | 98.7  | 1 | 9957.9  | 70.3 | 250  | 90.96 | 0 | -0.45 | 0 | 0 | 10.39   | 0 | 0 | 0 | 0 | 0 | -2.2    | -2.2    |
| T41 | 620998    | 4756850.97 | 311.43 | 176.43 | 0 | 100.8 | 100.8 | 1 | 9957.9  | 70.3 | 500  | 90.96 | 0 | -1.42 | 0 | 0 | 19.2    | 0 | 0 | 0 | 0 | 0 | -7.9    | -7.9    |
| T41 | 620998    | 4756850.97 | 311.43 | 176.43 | 0 | 98.3  | 98.3  | 1 | 9957.9  | 70.3 | 1000 | 90.96 | 0 | -1.42 | 0 | 0 | 36.42   | 0 | 0 | 0 | 0 | 0 | -27.7   | -27.7   |
| T41 | 620998    | 4756850.97 | 311.43 | 176.43 | 0 | 92.8  | 92.8  | 1 | 9957.9  | 70.3 | 2000 | 90.96 | 0 | -1.42 | 0 | 0 | 96.23   | 0 | 0 | 0 | 0 | 0 | -93.0   | -93.0   |
| T41 | 620998    | 4756850.97 | 311.43 | 176.43 | 0 | 85.9  | 85.9  | 1 | 9957.9  | 70.3 | 4000 | 90.96 | 0 | -1.42 | 0 | 0 | 326.32  | 0 | 0 | 0 | 0 | 0 | -330.0  | -330.0  |
| T41 | 620998    | 4756850.97 | 311.43 | 176.43 | 0 | 73.3  | 73.3  | 1 | 9957.9  | 70.3 | 8000 | 90.96 | 0 | -1.42 | 0 | 0 | 1163.9  | 0 | 0 | 0 | 0 | 0 | -1180.1 | -1180.1 |
| T72 | 620828    | 4757122    | 312.26 | 177.26 | 0 | -39.4 | -39.4 | 1 | 10262.2 | 70.6 | 32   | 91.22 | 0 | -4.78 | 0 | 0 | 0.33    | 0 | 0 | 0 | 0 | 0 | -126.2  | -126.2  |
| T72 | 620828    | 4757122    | 312.26 | 177.26 | 0 | 83.6  | 83.6  | 1 | 10262.2 | 70.6 | 63   | 91.22 | 0 | -4.78 | 0 | 0 | 1.25    | 0 | 0 | 0 | 0 | 0 | -4.1    | -4.1    |
| T72 | 620828    | 4757122    | 312.26 | 177.26 | 0 | 91.7  | 91.7  | 1 | 10262.2 | 70.6 | 125  | 91.22 | 0 | 1.25  | 0 | 0 | 4.22    | 0 | 0 | 0 | 0 | 0 | -5.0    | -5.0    |
| T72 | 620828    | 4757122    | 312.26 | 177.26 | 0 | 98.7  | 98.7  | 1 | 10262.2 | 70.6 | 250  | 91.22 | 0 | -0.46 | 0 | 0 | 10.71   | 0 | 0 | 0 | 0 | 0 | -2.8    | -2.8    |
| T72 | 620828    | 4757122    | 312.26 | 177.26 | 0 | 100.8 | 100.8 | 1 | 10262.2 | 70.6 | 500  | 91.22 | 0 | -1.43 | 0 | 0 | 19.78   | 0 | 0 | 0 | 0 | 0 | -8.8    | -8.8    |
| T72 | 620828    | 4757122    | 312.26 | 177.26 | 0 | 98.3  | 98.3  | 1 | 10262.2 | 70.6 | 1000 | 91.22 | 0 | -1.43 | 0 | 0 | 37.54   | 0 | 0 | 0 | 0 | 0 | -29.0   | -29.0   |
| T72 | 620828    | 4757122    | 312.26 | 177.26 | 0 | 92.8  | 92.8  | 1 | 10262.2 | 70.6 | 2000 | 91.22 | 0 | -1.43 | 0 | 0 | 99.17   | 0 | 0 | 0 | 0 | 0 | -96.2   | -96.2   |
| T72 | 620828    | 4757122    | 312.26 | 177.26 | 0 | 85.9  | 85.9  | 1 | 10262.2 | 70.6 | 4000 | 91.22 | 0 | -1.43 | 0 | 0 | 336.29  | 0 | 0 | 0 | 0 | 0 | -340.2  | -340.2  |
| T72 | 620828    | 4757122    | 312.26 | 177.26 | 0 | 73.3  | 73.3  | 1 | 10262.2 | 70.6 | 8000 | 91.22 | 0 | -1.43 | 0 | 0 | 1199.47 | 0 | 0 | 0 | 0 | 0 | -1216.0 | -1216.0 |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 11704.2 | 70.0 | 32   | 92.37 | 0 | -4.93 | 0 | 0 | 0.37    | 0 | 0 | 0 | 0 | 0 | -127.2  | -127.2  |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 11704.2 | 70.0 | 63   | 92.37 | 0 | -4.93 | 0 | 0 | 1.42    | 0 | 0 | 0 | 0 | 0 | -5.3    | -5.3    |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 11704.2 | 70.0 | 125  | 92.37 | 0 | 1.2   | 0 | 0 | 4.81    | 0 | 0 | 0 | 0 | 0 | -6.7    | -6.7    |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 11704.2 | 70.0 | 250  | 92.37 | 0 | -0.51 | 0 | 0 | 12.21   | 0 | 0 | 0 | 0 | 0 | -5.4    | -5.4    |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 11704.2 | 70.0 | 500  | 92.37 | 0 | -1.48 | 0 | 0 | 22.56   | 0 | 0 | 0 | 0 | 0 | -12.7   | -12.7   |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 11704.2 | 70.0 | 1000 | 92.37 | 0 | -1.48 | 0 | 0 | 42.81   | 0 | 0 | 0 | 0 | 0 | -35.4   | -35.4   |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 11704.2 | 70.0 | 2000 | 92.37 | 0 | -1.48 | 0 | 0 | 113.11  | 0 | 0 | 0 | 0 | 0 | -111.2  | -111.2  |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 11704.2 | 70.0 | 4000 | 92.37 | 0 | -1.48 | 0 | 0 | 383.55  | 0 | 0 | 0 | 0 | 0 | -388.5  | -388.5  |
| T37 | 623038.4  | 4758881    | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 11704.2 | 70.0 | 8000 | 92.37 | 0 | -1.48 | 0 | 0 | 1368    | 0 | 0 | 0 | 0 | 0 | -1385.6 | -1385.6 |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 11808.8 | 69.9 | 32   | 92.44 | 0 | -4.94 | 0 | 0 | 0.38    | 0 | 0 | 0 | 0 | 0 | -127.3  | -127.3  |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 83.6  | 83.6  | 1 | 11808.8 | 69.9 | 63   | 92.44 | 0 | -4.94 | 0 | 0 | 1.44    | 0 | 0 | 0 | 0 | 0 | -5.3    | -5.3    |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 91.7  | 91.7  | 1 | 11808.8 | 69.9 | 125  | 92.44 | 0 | 1.2   | 0 | 0 | 4.85    | 0 | 0 | 0 | 0 | 0 | -6.8    | -6.8    |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 11808.8 | 69.9 | 250  | 92.44 | 0 | -0.51 | 0 | 0 | 12.32   | 0 | 0 | 0 | 0 | 0 | -5.6    | -5.6    |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 100.8 | 100.8 | 1 | 11808.8 | 69.9 | 500  | 92.44 | 0 | -1.48 | 0 | 0 | 22.77   | 0 | 0 | 0 | 0 | 0 | -12.9   | -12.9   |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 98.3  | 98.3  | 1 | 11808.8 | 69.9 | 1000 | 92.44 | 0 | -1.48 | 0 | 0 | 43.19   | 0 | 0 | 0 | 0 | 0 | 0 | -35.9   | -35.9   |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 92.8  | 92.8  | 1 | 11808.8 | 69.9 | 2000 | 92.44 | 0 | -1.48 | 0 | 0 | 114.12  | 0 | 0 | 0 | 0 | 0 | 0 | -112.3  | -112.3  |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 85.9  | 85.9  | 1 | 11808.8 | 69.9 | 4000 | 92.44 | 0 | -1.48 | 0 | 0 | 386.97  | 0 | 0 | 0 | 0 | 0 | 0 | -392.0  | -392.0  |
| T10 | 623259.47 | 4758989.94 | 310    | 175    | 0 | 73.3  | 73.3  | 1 | 11808.8 | 69.9 | 8000 | 92.44 | 0 | -1.48 | 0 | 0 | 1380.23 | 0 | 0 | 0 | 0 | 0 | 0 | -1397.9 | -1397.9 |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 13680.7 | 72.5 | 32   | 93.72 | 0 | -5.08 | 0 | 0 | 0.44    | 0 | 0 | 0 | 0 | 0 | 0 | -128.5  | -128.5  |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 13680.7 | 72.5 | 63   | 93.72 | 0 | -5.08 | 0 | 0 | 1.67    | 0 | 0 | 0 | 0 | 0 | 0 | -6.7    | -6.7    |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 13680.7 | 72.5 | 125  | 93.72 | 0 | 1.16  | 0 | 0 | 5.62    | 0 | 0 | 0 | 0 | 0 | 0 | -8.8    | -8.8    |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 13680.7 | 72.5 | 250  | 93.72 | 0 | -0.55 | 0 | 0 | 14.27   | 0 | 0 | 0 | 0 | 0 | 0 | -8.7    | -8.7    |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 13680.7 | 72.5 | 500  | 93.72 | 0 | -1.52 | 0 | 0 | 26.37   | 0 | 0 | 0 | 0 | 0 | 0 | -17.8   | -17.8   |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 13680.7 | 72.5 | 1000 | 93.72 | 0 | -1.52 | 0 | 0 | 50.04   | 0 | 0 | 0 | 0 | 0 | 0 | -43.9   | -43.9   |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 13680.7 | 72.5 | 2000 | 93.72 | 0 | -1.52 | 0 | 0 | 132.21  | 0 | 0 | 0 | 0 | 0 | 0 | -131.6  | -131.6  |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 13680.7 | 72.5 | 4000 | 93.72 | 0 | -1.52 | 0 | 0 | 448.32  | 0 | 0 | 0 | 0 | 0 | 0 | -454.6  | -454.6  |
| T95 | 622816.64 | 4760851    | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 13680.7 | 72.5 | 8000 | 93.72 | 0 | -1.52 | 0 | 0 | 1599.03 | 0 | 0 | 0 | 0 | 0 | 0 | -1617.9 | -1617.9 |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | -41.9 | -41.9 | 1 | 12288.9 | 39.7 | 32   | 92.79 | 0 | -5.42 | 0 | 0 | 0.39    | 0 | 0 | 0 | 0 | 0 | 0 | -129.7  | -129.7  |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 87.6  | 87.6  | 1 | 12288.9 | 39.7 | 63   | 92.79 | 0 | -5.42 | 0 | 0 | 1.5     | 0 | 0 | 0 | 0 | 0 | 0 | -1.3    | -1.3    |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 95.2  | 95.2  | 1 | 12288.9 | 39.7 | 125  | 92.79 | 0 | 1.06  | 0 | 0 | 5.05    | 0 | 0 | 0 | 0 | 0 | 0 | -3.7    | -3.7    |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 94.3  | 94.3  | 1 | 12288.9 | 39.7 | 250  | 92.79 | 0 | -0.65 | 0 | 0 | 12.82   | 0 | 0 | 0 | 0 | 0 | 0 | -10.7   | -10.7   |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 97.1  | 97.1  | 1 | 12288.9 | 39.7 | 500  | 92.79 | 0 | -1.62 | 0 | 0 | 23.69   | 0 | 0 | 0 | 0 | 0 | 0 | -17.8   | -17.8   |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 98.9  | 98.9  | 1 | 12288.9 | 39.7 | 1000 | 92.79 | 0 | -1.63 | 0 | 0 | 44.95   | 0 | 0 | 0 | 0 | 0 | 0 | -37.2   | -37.2   |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 94.6  | 94.6  | 1 | 12288.9 | 39.7 | 2000 | 92.79 | 0 | -1.63 | 0 | 0 | 118.76  | 0 | 0 | 0 | 0 | 0 | 0 | -115.3  | -115.3  |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 83.1  | 83.1  | 1 | 12288.9 | 39.7 | 4000 | 92.79 | 0 | -1.63 | 0 | 0 | 402.71  | 0 | 0 | 0 | 0 | 0 | 0 | -410.8  | -410.8  |
| RFT | 615270    | 4756417    | 250    | 175    | 0 | 75.8  | 75.8  | 1 | 12288.9 | 39.7 | 8000 | 92.79 | 0 | -1.63 | 0 | 0 | 1436.36 | 0 | 0 | 0 | 0 | 0 | 0 | -1451.7 | -1451.7 |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | -39.4 | -39.4 | 1 | 15913.8 | 72.3 | 32   | 95.04 | 0 | -5.21 | 0 | 0 | 0.51    | 0 | 0 | 0 | 0 | 0 | 0 | -129.7  | -129.7  |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 83.6  | 83.6  | 1 | 15913.8 | 72.3 | 63   | 95.04 | 0 | -5.21 | 0 | 0 | 1.94    | 0 | 0 | 0 | 0 | 0 | 0 | -8.2    | -8.2    |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 91.7  | 91.7  | 1 | 15913.8 | 72.3 | 125  | 95.04 | 0 | 1.12  | 0 | 0 | 6.54    | 0 | 0 | 0 | 0 | 0 | 0 | -11.0   | -11.0   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 98.7  | 98.7  | 1 | 15913.8 | 72.3 | 250  | 95.04 | 0 | -0.59 | 0 | 0 | 16.6    | 0 | 0 | 0 | 0 | 0 | 0 | -12.4   | -12.4   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 100.8 | 100.8 | 1 | 15913.8 | 72.3 | 500  | 95.04 | 0 | -1.56 | 0 | 0 | 30.68   | 0 | 0 | 0 | 0 | 0 | 0 | -23.4   | -23.4   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 98.3  | 98.3  | 1 | 15913.8 | 72.3 | 1000 | 95.04 | 0 | -1.56 | 0 | 0 | 58.21   | 0 | 0 | 0 | 0 | 0 | 0 | -53.4   | -53.4   |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 92.8  | 92.8  | 1 | 15913.8 | 72.3 | 2000 | 95.04 | 0 | -1.56 | 0 | 0 | 153.79  | 0 | 0 | 0 | 0 | 0 | 0 | -154.5  | -154.5  |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 85.9  | 85.9  | 1 | 15913.8 | 72.3 | 4000 | 95.04 | 0 | -1.56 | 0 | 0 | 521.5   | 0 | 0 | 0 | 0 | 0 | 0 | -529.1  | -529.1  |
| T74 | 621655.82 | 4763002.28 | 314.65 | 179.65 | 0 | 73.3  | 73.3  | 1 | 15913.8 | 72.3 | 8000 | 95.04 | 0 | -1.56 | 0 | 0 | 1860.04 | 0 | 0 | 0 | 0 | 0 | 0 | -1880.2 | -1880.2 |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | -39.4 | -39.4 | 1 | 16721.7 | 72.3 | 32   | 95.47 | 0 | -5.25 | 0 | 0 | 0.54    | 0 | 0 | 0 | 0 | 0 | 0 | -130.2  | -130.2  |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 83.6  | 83.6  | 1 | 16721.7 | 72.3 | 63   | 95.47 | 0 | -5.25 | 0 | 0 | 2.04    | 0 | 0 | 0 | 0 | 0 | 0 | -8.7    | -8.7    |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 91.7  | 91.7  | 1 | 16721.7 | 72.3 | 125  | 95.47 | 0 | 1.11  | 0 | 0 | 6.87    | 0 | 0 | 0 | 0 | 0 | 0 | -11.8   | -11.8   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 98.7  | 98.7  | 1 | 16721.7 | 72.3 | 250  | 95.47 | 0 | -0.6  | 0 | 0 | 17.45   | 0 | 0 | 0 | 0 | 0 | 0 | -13.6   | -13.6   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 100.8 | 100.8 | 1 | 16721.7 | 72.3 | 500  | 95.47 | 0 | -1.57 | 0 | 0 | 32.24   | 0 | 0 | 0 | 0 | 0 | 0 | -25.3   | -25.3   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 98.3  | 98.3  | 1 | 16721.7 | 72.3 | 1000 | 95.47 | 0 | -1.57 | 0 | 0 | 61.16   | 0 | 0 | 0 | 0 | 0 | 0 | -56.8   | -56.8   |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 92.8  | 92.8  | 1 | 16721.7 | 72.3 | 2000 | 95.47 | 0 | -1.57 | 0 | 0 | 161.6   | 0 | 0 | 0 | 0 | 0 | 0 | -162.7  | -162.7  |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 85.9  | 85.9  | 1 | 16721.7 | 72.3 | 4000 | 95.47 | 0 | -1.57 | 0 | 0 | 547.97  | 0 | 0 | 0 | 0 | 0 | 0 | -556.0  | -556.0  |
| T29 | 628498    | 4763100.45 | 314.09 | 179.09 | 0 | 73.3  | 73.3  | 1 | 16721.7 | 72.3 | 8000 | 95.47 | 0 | -1.57 | 0 | 0 | 1954.47 | 0 | 0 | 0 | 0 | 0 | 0 | -1975.1 | -1975.1 |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 16744.7 | 73.0 | 32   | 95.48 | 0 | -5.25 | 0 | 0 | 0.54    | 0 | 0 | 0 | 0 | 0 | 0 | -130.2  | -130.2  |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 16744.7 | 73.0 | 63   | 95.48 | 0 | -5.25 | 0 | 0 | 2.04    | 0 | 0 | 0 | 0 | 0 | 0 | -8.7    | -8.7    |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 16744.7 | 73.0 | 125  | 95.48 | 0 | 1.11  | 0 | 0 | 6.88    | 0 | 0 | 0 | 0 | 0 | 0 | -11.8   | -11.8   |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 16744.7 | 73.0 | 250  | 95.48 | 0 | -0.6  | 0 | 0 | 17.47   | 0 | 0 | 0 | 0 | 0 | 0 | -13.7   | -13.7   |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 16744.7 | 73.0 | 500  | 95.48 | 0 | -1.57 | 0 | 0 | 32.28   | 0 | 0 | 0 | 0 | 0 | 0 | -25.4   | -25.4   |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 16744.7 | 73.0 | 1000 | 95.48 | 0 | -1.58 | 0 | 0 | 61.25   | 0 | 0 | 0 | 0 | 0 | 0 | -56.9   | -56.9   |
| T09 | 616789.8  | 4762576.13 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 16744.7 | 73.0 | 2000 | 95.48 | 0 | -1.58 | 0 | 0 | 161.82  | 0 | 0 | 0 | 0 | 0 | 0 | -162.9  | -162.9  |

|     |           |            |     |     |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |   |   |   |        |         |         |
|-----|-----------|------------|-----|-----|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---|---|---|--------|---------|---------|
| T09 | 616789.8  | 4762576.13 | 315 | 180 | 0 | 85.9  | 85.9  | 1 | 16744.7 | 73.0 | 4000 | 95.48 | 0 | -1.58 | 0 | 0 | 548.73  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -556.7 | -556.7  |         |
| T09 | 616789.8  | 4762576.13 | 315 | 180 | 0 | 73.3  | 73.3  | 1 | 16744.7 | 73.0 | 8000 | 95.48 | 0 | -1.58 | 0 | 0 | 1957.15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -1977.8 | -1977.8 |
| T51 | 617020.3  | 4762751.78 | 315 | 180 | 0 | -39.4 | -39.4 | 1 | 16817.8 | 72.8 | 32   | 95.52 | 0 | -5.25 | 0 | 0 | 0.54    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -130.2  | -130.2  |
| T51 | 617020.3  | 4762751.78 | 315 | 180 | 0 | 83.6  | 83.6  | 1 | 16817.8 | 72.8 | 63   | 95.52 | 0 | -5.25 | 0 | 0 | 2.05    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -8.7    | -8.7    |
| T51 | 617020.3  | 4762751.78 | 315 | 180 | 0 | 91.7  | 91.7  | 1 | 16817.8 | 72.8 | 125  | 95.52 | 0 | 1.11  | 0 | 0 | 6.91    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -11.8   | -11.8   |
| T51 | 617020.3  | 4762751.78 | 315 | 180 | 0 | 98.7  | 98.7  | 1 | 16817.8 | 72.8 | 250  | 95.52 | 0 | -0.6  | 0 | 0 | 17.55   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -13.8   | -13.8   |
| T51 | 617020.3  | 4762751.78 | 315 | 180 | 0 | 100.8 | 100.8 | 1 | 16817.8 | 72.8 | 500  | 95.52 | 0 | -1.58 | 0 | 0 | 32.42   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -25.6   | -25.6   |
| T51 | 617020.3  | 4762751.78 | 315 | 180 | 0 | 98.3  | 98.3  | 1 | 16817.8 | 72.8 | 1000 | 95.52 | 0 | -1.58 | 0 | 0 | 61.51   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -57.2   | -57.2   |
| T51 | 617020.3  | 4762751.78 | 315 | 180 | 0 | 92.8  | 92.8  | 1 | 16817.8 | 72.8 | 2000 | 95.52 | 0 | -1.58 | 0 | 0 | 162.53  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -163.7  | -163.7  |
| T51 | 617020.3  | 4762751.78 | 315 | 180 | 0 | 85.9  | 85.9  | 1 | 16817.8 | 72.8 | 4000 | 95.52 | 0 | -1.58 | 0 | 0 | 551.12  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -559.2  | -559.2  |
| T51 | 617020.3  | 4762751.78 | 315 | 180 | 0 | 73.3  | 73.3  | 1 | 16817.8 | 72.8 | 8000 | 95.52 | 0 | -1.58 | 0 | 0 | 1965.7  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -1986.3 | -1986.3 |
| T55 | 623610.33 | 4764393.4  | 315 | 180 | 0 | -39.4 | -39.4 | 1 | 17213.0 | 73.1 | 32   | 95.72 | 0 | -5.27 | 0 | 0 | 0.55    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -130.4  | -130.4  |
| T55 | 623610.33 | 4764393.4  | 315 | 180 | 0 | 83.6  | 83.6  | 1 | 17213.0 | 73.1 | 63   | 95.72 | 0 | -5.27 | 0 | 0 | 2.09    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -8.9    | -8.9    |
| T55 | 623610.33 | 4764393.4  | 315 | 180 | 0 | 91.7  | 91.7  | 1 | 17213.0 | 73.1 | 125  | 95.72 | 0 | 1.1   | 0 | 0 | 7.07    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -12.2   | -12.2   |
| T55 | 623610.33 | 4764393.4  | 315 | 180 | 0 | 98.7  | 98.7  | 1 | 17213.0 | 73.1 | 250  | 95.72 | 0 | -0.61 | 0 | 0 | 17.96   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -14.4   | -14.4   |
| T55 | 623610.33 | 4764393.4  | 315 | 180 | 0 | 100.8 | 100.8 | 1 | 17213.0 | 73.1 | 500  | 95.72 | 0 | -1.58 | 0 | 0 | 33.18   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -26.5   | -26.5   |
| T55 | 623610.33 | 4764393.4  | 315 | 180 | 0 | 98.3  | 98.3  | 1 | 17213.0 | 73.1 | 1000 | 95.72 | 0 | -1.58 | 0 | 0 | 62.96   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -58.8   | -58.8   |
| T55 | 623610.33 | 4764393.4  | 315 | 180 | 0 | 92.8  | 92.8  | 1 | 17213.0 | 73.1 | 2000 | 95.72 | 0 | -1.58 | 0 | 0 | 166.35  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -167.7  | -167.7  |
| T55 | 623610.33 | 4764393.4  | 315 | 180 | 0 | 85.9  | 85.9  | 1 | 17213.0 | 73.1 | 4000 | 95.72 | 0 | -1.58 | 0 | 0 | 564.07  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -572.3  | -572.3  |
| T55 | 623610.33 | 4764393.4  | 315 | 180 | 0 | 73.3  | 73.3  | 1 | 17213.0 | 73.1 | 8000 | 95.72 | 0 | -1.58 | 0 | 0 | 2011.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -2032.7 | -2032.7 |
| T32 | 624780.53 | 4764409.82 | 315 | 180 | 0 | -39.4 | -39.4 | 1 | 17284.9 | 73.2 | 32   | 95.75 | 0 | -5.27 | 0 | 0 | 0.55    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -130.4  | -130.4  |
| T32 | 624780.53 | 4764409.82 | 315 | 180 | 0 | 83.6  | 83.6  | 1 | 17284.9 | 73.2 | 63   | 95.75 | 0 | -5.27 | 0 | 0 | 2.1     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -9.0    | -9.0    |
| T32 | 624780.53 | 4764409.82 | 315 | 180 | 0 | 91.7  | 91.7  | 1 | 17284.9 | 73.2 | 125  | 95.75 | 0 | 1.1   | 0 | 0 | 7.1     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -12.3   | -12.3   |
| T32 | 624780.53 | 4764409.82 | 315 | 180 | 0 | 98.7  | 98.7  | 1 | 17284.9 | 73.2 | 250  | 95.75 | 0 | -0.61 | 0 | 0 | 18.03   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -14.5   | -14.5   |
| T32 | 624780.53 | 4764409.82 | 315 | 180 | 0 | 100.8 | 100.8 | 1 | 17284.9 | 73.2 | 500  | 95.75 | 0 | -1.58 | 0 | 0 | 33.32   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -26.7   | -26.7   |
| T32 | 624780.53 | 4764409.82 | 315 | 180 | 0 | 98.3  | 98.3  | 1 | 17284.9 | 73.2 | 1000 | 95.75 | 0 | -1.58 | 0 | 0 | 63.22   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -59.1   | -59.1   |
| T32 | 624780.53 | 4764409.82 | 315 | 180 | 0 | 92.8  | 92.8  | 1 | 17284.9 | 73.2 | 2000 | 95.75 | 0 | -1.58 | 0 | 0 | 167.04  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -168.4  | -168.4  |
| T32 | 624780.53 | 4764409.82 | 315 | 180 | 0 | 85.9  | 85.9  | 1 | 17284.9 | 73.2 | 4000 | 95.75 | 0 | -1.58 | 0 | 0 | 566.43  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -574.7  | -574.7  |
| T32 | 624780.53 | 4764409.82 | 315 | 180 | 0 | 73.3  | 73.3  | 1 | 17284.9 | 73.2 | 8000 | 95.75 | 0 | -1.58 | 0 | 0 | 2020.29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -2041.2 | -2041.2 |
| T75 | 621356.89 | 4764542.57 | 315 | 180 | 0 | -39.4 | -39.4 | 1 | 17477.9 | 72.3 | 32   | 95.85 | 0 | -5.28 | 0 | 0 | 0.56    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -130.5  | -130.5  |
| T75 | 621356.89 | 4764542.57 | 315 | 180 | 0 | 83.6  | 83.6  | 1 | 17477.9 | 72.3 | 63   | 95.85 | 0 | -5.28 | 0 | 0 | 2.13    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -9.1    | -9.1    |
| T75 | 621356.89 | 4764542.57 | 315 | 180 | 0 | 91.7  | 91.7  | 1 | 17477.9 | 72.3 | 125  | 95.85 | 0 | 1.1   | 0 | 0 | 7.18    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -12.4   | -12.4   |
| T75 | 621356.89 | 4764542.57 | 315 | 180 | 0 | 98.7  | 98.7  | 1 | 17477.9 | 72.3 | 250  | 95.85 | 0 | -0.61 | 0 | 0 | 18.24   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -14.8   | -14.8   |
| T75 | 621356.89 | 4764542.57 | 315 | 180 | 0 | 100.8 | 100.8 | 1 | 17477.9 | 72.3 | 500  | 95.85 | 0 | -1.58 | 0 | 0 | 33.7    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -27.2   | -27.2   |
| T75 | 621356.89 | 4764542.57 | 315 | 180 | 0 | 98.3  | 98.3  | 1 | 17477.9 | 72.3 | 1000 | 95.85 | 0 | -1.58 | 0 | 0 | 63.93   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -59.9   | -59.9   |
| T75 | 621356.89 | 4764542.57 | 315 | 180 | 0 | 92.8  | 92.8  | 1 | 17477.9 | 72.3 | 2000 | 95.85 | 0 | -1.58 | 0 | 0 | 168.9   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -170.4  | -170.4  |
| T75 | 621356.89 | 4764542.57 | 315 | 180 | 0 | 85.9  | 85.9  | 1 | 17477.9 | 72.3 | 4000 | 95.85 | 0 | -1.58 | 0 | 0 | 572.75  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -581.1  | -581.1  |
| T75 | 621356.89 | 4764542.57 | 315 | 180 | 0 | 73.3  | 73.3  | 1 | 17477.9 | 72.3 | 8000 | 95.85 | 0 | -1.58 | 0 | 0 | 2042.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -2063.8 | -2063.8 |
| T07 | 618635.59 | 4764052.89 | 315 | 180 | 0 | -39.4 | -39.4 | 1 | 17524.8 | 72.7 | 32   | 95.87 | 0 | -5.28 | 0 | 0 | 0.56    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -130.6  | -130.6  |
| T07 | 618635.59 | 4764052.89 | 315 | 180 | 0 | 83.6  | 83.6  | 1 | 17524.8 | 72.7 | 63   | 95.87 | 0 | -5.28 | 0 | 0 | 2.13    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -9.1    | -9.1    |
| T07 | 618635.59 | 4764052.89 | 315 | 180 | 0 | 91.7  | 91.7  | 1 | 17524.8 | 72.7 | 125  | 95.87 | 0 | 1.1   | 0 | 0 | 7.2     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -12.5   | -12.5   |
| T07 | 618635.59 | 4764052.89 | 315 | 180 | 0 | 98.7  | 98.7  | 1 | 17524.8 | 72.7 | 250  | 95.87 | 0 | -0.61 | 0 | 0 | 18.28   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -14.9   | -14.9   |
| T07 | 618635.59 | 4764052.89 | 315 | 180 | 0 | 100.8 | 100.8 | 1 | 17524.8 | 72.7 | 500  | 95.87 | 0 | -1.58 | 0 | 0 | 33.79   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -27.3   | -27.3   |
| T07 | 618635.59 | 4764052.89 | 315 | 180 | 0 | 98.3  | 98.3  | 1 | 17524.8 | 72.7 | 1000 | 95.87 | 0 | -1.59 | 0 | 0 | 64.1    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -60.1   | -60.1   |
| T07 | 618635.59 | 4764052.89 | 315 | 180 | 0 | 92.8  | 92.8  | 1 | 17524.8 | 72.7 | 2000 | 95.87 | 0 | -1.59 | 0 | 0 | 169.36  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -170.9  | -170.9  |
| T07 | 618635.59 | 4764052.89 | 315 | 180 | 0 | 85.9  | 85.9  | 1 | 17524.8 | 72.7 | 4000 | 95.87 | 0 | -1.59 | 0 | 0 | 574.29  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -582.7  | -582.7  |
| T07 | 618635.59 | 4764052.89 | 315 | 180 | 0 | 73.3  | 73.3  | 1 | 17524.8 | 72.7 | 8000 | 95.87 | 0 | -1.59 | 0 | 0 | 2048.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | -2069.3 | -2069.3 |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |      |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|------|---|---------|---|---|---|---|---|---|---------|---------|
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 50.6  | 50.6  | 1 | 14614.5 | 6.5  | 32   | 94.3  | 0 | -5.95 | 4.77 | 0 | 0.47    | 0 | 0 | 0 | 0 | 0 | 0 | -43.0   | -43.0   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 72.8  | 72.8  | 1 | 14614.5 | 6.5  | 63   | 94.3  | 0 | -5.95 | 4.77 | 0 | 1.78    | 0 | 0 | 0 | 0 | 0 | 0 | -22.1   | -22.1   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 87.9  | 87.9  | 1 | 14614.5 | 6.5  | 125  | 94.3  | 0 | 3.78  | 0.99 | 0 | 6.01    | 0 | 0 | 0 | 0 | 0 | 0 | -17.2   | -17.2   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 94.4  | 94.4  | 1 | 14614.5 | 6.5  | 250  | 94.3  | 0 | 0.94  | 3.83 | 0 | 15.25   | 0 | 0 | 0 | 0 | 0 | 0 | -19.9   | -19.9   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 99.8  | 99.8  | 1 | 14614.5 | 6.5  | 500  | 94.3  | 0 | -1.77 | 4.77 | 0 | 28.17   | 0 | 0 | 0 | 0 | 0 | 0 | -25.7   | -25.7   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 97.0  | 97.0  | 1 | 14614.5 | 6.5  | 1000 | 94.3  | 0 | -1.78 | 4.77 | 0 | 53.46   | 0 | 0 | 0 | 0 | 0 | 0 | -53.7   | -53.7   |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 93.2  | 93.2  | 1 | 14614.5 | 6.5  | 2000 | 94.3  | 0 | -1.78 | 4.77 | 0 | 141.23  | 0 | 0 | 0 | 0 | 0 | 0 | -145.3  | -145.3  |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 88.0  | 88.0  | 1 | 14614.5 | 6.5  | 4000 | 94.3  | 0 | -1.78 | 4.77 | 0 | 478.92  | 0 | 0 | 0 | 0 | 0 | 0 | -488.2  | -488.2  |
| ST1 | 621959.7  | 4761728    | 182.29 | 178.59 | 0 | 78.9  | 78.9  | 1 | 14614.5 | 6.5  | 8000 | 94.3  | 0 | -1.78 | 4.77 | 0 | 1708.17 | 0 | 0 | 0 | 0 | 0 | 0 | -1726.6 | -1726.6 |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17651.3 | 73.1 | 32   | 95.94 | 0 | -5.29 | 0    | 0 | 0.57    | 0 | 0 | 0 | 0 | 0 | 0 | -130.6  | -130.6  |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17651.3 | 73.1 | 63   | 95.94 | 0 | -5.29 | 0    | 0 | 2.15    | 0 | 0 | 0 | 0 | 0 | 0 | -9.2    | -9.2    |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17651.3 | 73.1 | 125  | 95.94 | 0 | 1.1   | 0    | 0 | 7.25    | 0 | 0 | 0 | 0 | 0 | 0 | -12.6   | -12.6   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17651.3 | 73.1 | 250  | 95.94 | 0 | -0.61 | 0    | 0 | 18.42   | 0 | 0 | 0 | 0 | 0 | 0 | -15.0   | -15.0   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17651.3 | 73.1 | 500  | 95.94 | 0 | -1.59 | 0    | 0 | 34.03   | 0 | 0 | 0 | 0 | 0 | 0 | -27.6   | -27.6   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17651.3 | 73.1 | 1000 | 95.94 | 0 | -1.59 | 0    | 0 | 64.56   | 0 | 0 | 0 | 0 | 0 | 0 | -60.6   | -60.6   |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17651.3 | 73.1 | 2000 | 95.94 | 0 | -1.59 | 0    | 0 | 170.58  | 0 | 0 | 0 | 0 | 0 | 0 | -172.1  | -172.1  |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17651.3 | 73.1 | 4000 | 95.94 | 0 | -1.59 | 0    | 0 | 578.43  | 0 | 0 | 0 | 0 | 0 | 0 | -586.9  | -586.9  |
| T03 | 629891.21 | 4763587.5  | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17651.3 | 73.1 | 8000 | 95.94 | 0 | -1.59 | 0    | 0 | 2063.12 | 0 | 0 | 0 | 0 | 0 | 0 | -2084.2 | -2084.2 |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17684.7 | 71.7 | 32   | 95.95 | 0 | -5.29 | 0    | 0 | 0.57    | 0 | 0 | 0 | 0 | 0 | 0 | -130.6  | -130.6  |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17684.7 | 71.7 | 63   | 95.95 | 0 | -5.29 | 0    | 0 | 2.15    | 0 | 0 | 0 | 0 | 0 | 0 | -9.2    | -9.2    |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17684.7 | 71.7 | 125  | 95.95 | 0 | 1.1   | 0    | 0 | 7.27    | 0 | 0 | 0 | 0 | 0 | 0 | -12.6   | -12.6   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17684.7 | 71.7 | 250  | 95.95 | 0 | -0.61 | 0    | 0 | 18.45   | 0 | 0 | 0 | 0 | 0 | 0 | -15.1   | -15.1   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17684.7 | 71.7 | 500  | 95.95 | 0 | -1.59 | 0    | 0 | 34.09   | 0 | 0 | 0 | 0 | 0 | 0 | -27.7   | -27.7   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17684.7 | 71.7 | 1000 | 95.95 | 0 | -1.59 | 0    | 0 | 64.69   | 0 | 0 | 0 | 0 | 0 | 0 | -60.8   | -60.8   |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17684.7 | 71.7 | 2000 | 95.95 | 0 | -1.59 | 0    | 0 | 170.9   | 0 | 0 | 0 | 0 | 0 | 0 | -172.5  | -172.5  |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17684.7 | 71.7 | 4000 | 95.95 | 0 | -1.59 | 0    | 0 | 579.53  | 0 | 0 | 0 | 0 | 0 | 0 | -588.0  | -588.0  |
| T34 | 626486    | 4764591.38 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17684.7 | 71.7 | 8000 | 95.95 | 0 | -1.59 | 0    | 0 | 2067.02 | 0 | 0 | 0 | 0 | 0 | 0 | -2088.1 | -2088.1 |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 17710.5 | 72.0 | 32   | 95.96 | 0 | -5.29 | 0    | 0 | 0.57    | 0 | 0 | 0 | 0 | 0 | 0 | -130.6  | -130.6  |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 17710.5 | 72.0 | 63   | 95.96 | 0 | -5.29 | 0    | 0 | 2.16    | 0 | 0 | 0 | 0 | 0 | 0 | -9.2    | -9.2    |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 17710.5 | 72.0 | 125  | 95.96 | 0 | 1.1   | 0    | 0 | 7.28    | 0 | 0 | 0 | 0 | 0 | 0 | -12.6   | -12.6   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 17710.5 | 72.0 | 250  | 95.96 | 0 | -0.61 | 0    | 0 | 18.48   | 0 | 0 | 0 | 0 | 0 | 0 | -15.1   | -15.1   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 17710.5 | 72.0 | 500  | 95.96 | 0 | -1.59 | 0    | 0 | 34.14   | 0 | 0 | 0 | 0 | 0 | 0 | -27.7   | -27.7   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 17710.5 | 72.0 | 1000 | 95.96 | 0 | -1.59 | 0    | 0 | 64.78   | 0 | 0 | 0 | 0 | 0 | 0 | -60.9   | -60.9   |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 17710.5 | 72.0 | 2000 | 95.96 | 0 | -1.59 | 0    | 0 | 171.15  | 0 | 0 | 0 | 0 | 0 | 0 | -172.7  | -172.7  |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 17710.5 | 72.0 | 4000 | 95.96 | 0 | -1.59 | 0    | 0 | 580.37  | 0 | 0 | 0 | 0 | 0 | 0 | -588.9  | -588.9  |
| T35 | 627163.52 | 4764483.09 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 17710.5 | 72.0 | 8000 | 95.96 | 0 | -1.59 | 0    | 0 | 2070.04 | 0 | 0 | 0 | 0 | 0 | 0 | -2091.1 | -2091.1 |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18129.3 | 72.3 | 32   | 96.17 | 0 | -5.31 | 0    | 0 | 0.58    | 0 | 0 | 0 | 0 | 0 | 0 | -130.8  | -130.8  |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18129.3 | 72.3 | 63   | 96.17 | 0 | -5.31 | 0    | 0 | 2.21    | 0 | 0 | 0 | 0 | 0 | 0 | -9.5    | -9.5    |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18129.3 | 72.3 | 125  | 96.17 | 0 | 1.09  | 0    | 0 | 7.45    | 0 | 0 | 0 | 0 | 0 | 0 | -13.0   | -13.0   |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18129.3 | 72.3 | 250  | 96.17 | 0 | -0.62 | 0    | 0 | 18.92   | 0 | 0 | 0 | 0 | 0 | 0 | -15.8   | -15.8   |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18129.3 | 72.3 | 500  | 96.17 | 0 | -1.59 | 0    | 0 | 34.95   | 0 | 0 | 0 | 0 | 0 | 0 | -28.7   | -28.7   |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18129.3 | 72.3 | 1000 | 96.17 | 0 | -1.59 | 0    | 0 | 66.31   | 0 | 0 | 0 | 0 | 0 | 0 | -62.6   | -62.6   |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18129.3 | 72.3 | 2000 | 96.17 | 0 | -1.59 | 0    | 0 | 175.2   | 0 | 0 | 0 | 0 | 0 | 0 | -177.0  | -177.0  |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18129.3 | 72.3 | 4000 | 96.17 | 0 | -1.59 | 0    | 0 | 594.1   | 0 | 0 | 0 | 0 | 0 | 0 | -602.8  | -602.8  |
| T39 | 617348.6  | 4764279.28 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18129.3 | 72.3 | 8000 | 96.17 | 0 | -1.59 | 0    | 0 | 2118.98 | 0 | 0 | 0 | 0 | 0 | 0 | -2140.3 | -2140.3 |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18354.0 | 72.3 | 32   | 96.27 | 0 | -5.32 | 0    | 0 | 0.59    | 0 | 0 | 0 | 0 | 0 | 0 | -131.0  | -131.0  |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18354.0 | 72.3 | 63   | 96.27 | 0 | -5.32 | 0    | 0 | 2.23    | 0 | 0 | 0 | 0 | 0 | 0 | -9.6    | -9.6    |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18354.0 | 72.3 | 125  | 96.27 | 0 | 1.09  | 0 | 0 | 7.54    | 0 | 0 | 0 | 0 | 0 | 0 | -13.2   | -13.2   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18354.0 | 72.3 | 250  | 96.27 | 0 | -0.62 | 0 | 0 | 19.15   | 0 | 0 | 0 | 0 | 0 | 0 | -16.1   | -16.1   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18354.0 | 72.3 | 500  | 96.27 | 0 | -1.59 | 0 | 0 | 35.38   | 0 | 0 | 0 | 0 | 0 | 0 | -29.3   | -29.3   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18354.0 | 72.3 | 1000 | 96.27 | 0 | -1.59 | 0 | 0 | 67.13   | 0 | 0 | 0 | 0 | 0 | 0 | -63.5   | -63.5   |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18354.0 | 72.3 | 2000 | 96.27 | 0 | -1.59 | 0 | 0 | 177.37  | 0 | 0 | 0 | 0 | 0 | 0 | -179.3  | -179.3  |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18354.0 | 72.3 | 4000 | 96.27 | 0 | -1.59 | 0 | 0 | 601.46  | 0 | 0 | 0 | 0 | 0 | 0 | -610.2  | -610.2  |
| T78 | 628581    | 4764783    | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18354.0 | 72.3 | 8000 | 96.27 | 0 | -1.59 | 0 | 0 | 2145.25 | 0 | 0 | 0 | 0 | 0 | 0 | -2166.6 | -2166.6 |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18539.3 | 72.9 | 32   | 96.36 | 0 | -5.32 | 0 | 0 | 0.59    | 0 | 0 | 0 | 0 | 0 | 0 | -131.0  | -131.0  |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18539.3 | 72.9 | 63   | 96.36 | 0 | -5.32 | 0 | 0 | 2.26    | 0 | 0 | 0 | 0 | 0 | 0 | -9.7    | -9.7    |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18539.3 | 72.9 | 125  | 96.36 | 0 | 1.09  | 0 | 0 | 7.62    | 0 | 0 | 0 | 0 | 0 | 0 | -13.4   | -13.4   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18539.3 | 72.9 | 250  | 96.36 | 0 | -0.62 | 0 | 0 | 19.34   | 0 | 0 | 0 | 0 | 0 | 0 | -16.4   | -16.4   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18539.3 | 72.9 | 500  | 96.36 | 0 | -1.6  | 0 | 0 | 35.74   | 0 | 0 | 0 | 0 | 0 | 0 | -29.7   | -29.7   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18539.3 | 72.9 | 1000 | 96.36 | 0 | -1.6  | 0 | 0 | 67.81   | 0 | 0 | 0 | 0 | 0 | 0 | -64.3   | -64.3   |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18539.3 | 72.9 | 2000 | 96.36 | 0 | -1.6  | 0 | 0 | 179.16  | 0 | 0 | 0 | 0 | 0 | 0 | -181.1  | -181.1  |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18539.3 | 72.9 | 4000 | 96.36 | 0 | -1.6  | 0 | 0 | 607.54  | 0 | 0 | 0 | 0 | 0 | 0 | -616.4  | -616.4  |
| T76 | 623639.91 | 4765719.45 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18539.3 | 72.9 | 8000 | 96.36 | 0 | -1.6  | 0 | 0 | 2166.91 | 0 | 0 | 0 | 0 | 0 | 0 | -2188.4 | -2188.4 |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | -39.4 | -39.4 | 1 | 18567.4 | 73.6 | 32   | 96.38 | 0 | -5.32 | 0 | 0 | 0.59    | 0 | 0 | 0 | 0 | 0 | 0 | -131.1  | -131.1  |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 83.6  | 83.6  | 1 | 18567.4 | 73.6 | 63   | 96.38 | 0 | -5.32 | 0 | 0 | 2.26    | 0 | 0 | 0 | 0 | 0 | 0 | -9.7    | -9.7    |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 91.7  | 91.7  | 1 | 18567.4 | 73.6 | 125  | 96.38 | 0 | 1.09  | 0 | 0 | 7.63    | 0 | 0 | 0 | 0 | 0 | 0 | -13.4   | -13.4   |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 98.7  | 98.7  | 1 | 18567.4 | 73.6 | 250  | 96.38 | 0 | -0.62 | 0 | 0 | 19.37   | 0 | 0 | 0 | 0 | 0 | 0 | -16.4   | -16.4   |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 100.8 | 100.8 | 1 | 18567.4 | 73.6 | 500  | 96.38 | 0 | -1.6  | 0 | 0 | 35.8    | 0 | 0 | 0 | 0 | 0 | 0 | -29.8   | -29.8   |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 98.3  | 98.3  | 1 | 18567.4 | 73.6 | 1000 | 96.38 | 0 | -1.6  | 0 | 0 | 67.91   | 0 | 0 | 0 | 0 | 0 | 0 | -64.4   | -64.4   |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 92.8  | 92.8  | 1 | 18567.4 | 73.6 | 2000 | 96.38 | 0 | -1.6  | 0 | 0 | 179.43  | 0 | 0 | 0 | 0 | 0 | 0 | -181.4  | -181.4  |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 85.9  | 85.9  | 1 | 18567.4 | 73.6 | 4000 | 96.38 | 0 | -1.6  | 0 | 0 | 608.46  | 0 | 0 | 0 | 0 | 0 | 0 | -617.3  | -617.3  |
| T01 | 622985.76 | 4765745.26 | 317.25 | 182.25 | 0 | 73.3  | 73.3  | 1 | 18567.4 | 73.6 | 8000 | 96.38 | 0 | -1.6  | 0 | 0 | 2170.2  | 0 | 0 | 0 | 0 | 0 | 0 | -2191.7 | -2191.7 |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 18723.1 | 74.9 | 32   | 96.45 | 0 | -5.33 | 0 | 0 | 0.6     | 0 | 0 | 0 | 0 | 0 | 0 | -131.1  | -131.1  |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 18723.1 | 74.9 | 63   | 96.45 | 0 | -5.33 | 0 | 0 | 2.28    | 0 | 0 | 0 | 0 | 0 | 0 | -9.8    | -9.8    |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 18723.1 | 74.9 | 125  | 96.45 | 0 | 1.08  | 0 | 0 | 7.69    | 0 | 0 | 0 | 0 | 0 | 0 | -13.5   | -13.5   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 18723.1 | 74.9 | 250  | 96.45 | 0 | -0.63 | 0 | 0 | 19.54   | 0 | 0 | 0 | 0 | 0 | 0 | -16.7   | -16.7   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 18723.1 | 74.9 | 500  | 96.45 | 0 | -1.6  | 0 | 0 | 36.1    | 0 | 0 | 0 | 0 | 0 | 0 | -30.2   | -30.2   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 18723.1 | 74.9 | 1000 | 96.45 | 0 | -1.6  | 0 | 0 | 68.48   | 0 | 0 | 0 | 0 | 0 | 0 | -65.0   | -65.0   |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 18723.1 | 74.9 | 2000 | 96.45 | 0 | -1.6  | 0 | 0 | 180.94  | 0 | 0 | 0 | 0 | 0 | 0 | -183.0  | -183.0  |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 18723.1 | 74.9 | 4000 | 96.45 | 0 | -1.6  | 0 | 0 | 613.56  | 0 | 0 | 0 | 0 | 0 | 0 | -622.5  | -622.5  |
| T31 | 625150    | 4765821    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 18723.1 | 74.9 | 8000 | 96.45 | 0 | -1.6  | 0 | 0 | 2188.39 | 0 | 0 | 0 | 0 | 0 | 0 | -2209.9 | -2209.9 |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18729.5 | 71.9 | 32   | 96.45 | 0 | -5.33 | 0 | 0 | 0.6     | 0 | 0 | 0 | 0 | 0 | 0 | -131.1  | -131.1  |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18729.5 | 71.9 | 63   | 96.45 | 0 | -5.33 | 0 | 0 | 2.28    | 0 | 0 | 0 | 0 | 0 | 0 | -9.8    | -9.8    |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18729.5 | 71.9 | 125  | 96.45 | 0 | 1.08  | 0 | 0 | 7.7     | 0 | 0 | 0 | 0 | 0 | 0 | -13.5   | -13.5   |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18729.5 | 71.9 | 250  | 96.45 | 0 | -0.63 | 0 | 0 | 19.54   | 0 | 0 | 0 | 0 | 0 | 0 | -16.7   | -16.7   |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18729.5 | 71.9 | 500  | 96.45 | 0 | -1.6  | 0 | 0 | 36.11   | 0 | 0 | 0 | 0 | 0 | 0 | -30.2   | -30.2   |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18729.5 | 71.9 | 1000 | 96.45 | 0 | -1.6  | 0 | 0 | 68.51   | 0 | 0 | 0 | 0 | 0 | 0 | -65.1   | -65.1   |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18729.5 | 71.9 | 2000 | 96.45 | 0 | -1.6  | 0 | 0 | 181     | 0 | 0 | 0 | 0 | 0 | 0 | -183.1  | -183.1  |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18729.5 | 71.9 | 4000 | 96.45 | 0 | -1.6  | 0 | 0 | 613.77  | 0 | 0 | 0 | 0 | 0 | 0 | -622.7  | -622.7  |
| T54 | 619944    | 4765594    | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18729.5 | 71.9 | 8000 | 96.45 | 0 | -1.6  | 0 | 0 | 2189.14 | 0 | 0 | 0 | 0 | 0 | 0 | -2210.7 | -2210.7 |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | -39.4 | -39.4 | 1 | 18766.3 | 72.1 | 32   | 96.47 | 0 | -5.33 | 0 | 0 | 0.6     | 0 | 0 | 0 | 0 | 0 | 0 | -131.1  | -131.1  |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 83.6  | 83.6  | 1 | 18766.3 | 72.1 | 63   | 96.47 | 0 | -5.33 | 0 | 0 | 2.28    | 0 | 0 | 0 | 0 | 0 | 0 | -9.8    | -9.8    |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 91.7  | 91.7  | 1 | 18766.3 | 72.1 | 125  | 96.47 | 0 | 1.08  | 0 | 0 | 7.71    | 0 | 0 | 0 | 0 | 0 | 0 | -13.6   | -13.6   |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 98.7  | 98.7  | 1 | 18766.3 | 72.1 | 250  | 96.47 | 0 | -0.63 | 0 | 0 | 19.58   | 0 | 0 | 0 | 0 | 0 | 0 | -16.7   | -16.7   |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---------|---------|
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 100.8 | 100.8 | 1 | 18766.3 | 72.1 | 500  | 96.47 | 0 | -1.6  | 0 | 0 | 36.18   | 0 | 0 | 0 | 0 | 0 | -30.3   | -30.3   |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 98.3  | 98.3  | 1 | 18766.3 | 72.1 | 1000 | 96.47 | 0 | -1.6  | 0 | 0 | 68.64   | 0 | 0 | 0 | 0 | 0 | -65.2   | -65.2   |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 92.8  | 92.8  | 1 | 18766.3 | 72.1 | 2000 | 96.47 | 0 | -1.6  | 0 | 0 | 181.36  | 0 | 0 | 0 | 0 | 0 | -183.4  | -183.4  |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 85.9  | 85.9  | 1 | 18766.3 | 72.1 | 4000 | 96.47 | 0 | -1.6  | 0 | 0 | 614.97  | 0 | 0 | 0 | 0 | 0 | -623.9  | -623.9  |
| T38 | 620669.21 | 4765751.77 | 315    | 180    | 0 | 73.3  | 73.3  | 1 | 18766.3 | 72.1 | 8000 | 96.47 | 0 | -1.6  | 0 | 0 | 2193.44 | 0 | 0 | 0 | 0 | 0 | -2215.0 | -2215.0 |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | -39.4 | -39.4 | 1 | 15912.6 | 70.3 | 32   | 95.03 | 0 | -5.21 | 0 | 0 | 0.51    | 0 | 0 | 0 | 0 | 0 | -129.7  | -129.7  |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 86.6  | 86.6  | 1 | 15912.6 | 70.3 | 63   | 95.03 | 0 | -5.21 | 0 | 0 | 1.94    | 0 | 0 | 0 | 0 | 0 | -5.2    | -5.2    |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 94.7  | 94.7  | 1 | 15912.6 | 70.3 | 125  | 95.03 | 0 | 1.12  | 0 | 0 | 6.54    | 0 | 0 | 0 | 0 | 0 | -8.0    | -8.0    |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 94.4  | 94.4  | 1 | 15912.6 | 70.3 | 250  | 95.03 | 0 | -0.59 | 0 | 0 | 16.6    | 0 | 0 | 0 | 0 | 0 | -16.7   | -16.7   |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 97.3  | 97.3  | 1 | 15912.6 | 70.3 | 500  | 95.03 | 0 | -1.56 | 0 | 0 | 30.68   | 0 | 0 | 0 | 0 | 0 | -26.9   | -26.9   |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 98.7  | 98.7  | 1 | 15912.6 | 70.3 | 1000 | 95.03 | 0 | -1.56 | 0 | 0 | 58.2    | 0 | 0 | 0 | 0 | 0 | -53.0   | -53.0   |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 93.8  | 93.8  | 1 | 15912.6 | 70.3 | 2000 | 95.03 | 0 | -1.56 | 0 | 0 | 153.78  | 0 | 0 | 0 | 0 | 0 | -153.5  | -153.5  |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 81.5  | 81.5  | 1 | 15912.6 | 70.3 | 4000 | 95.03 | 0 | -1.56 | 0 | 0 | 521.46  | 0 | 0 | 0 | 0 | 0 | -533.4  | -533.4  |
| T36 | 622378.63 | 4763063.13 | 310    | 175    | 0 | 73.4  | 73.4  | 1 | 15912.6 | 70.3 | 8000 | 95.03 | 0 | -1.56 | 0 | 0 | 1859.89 | 0 | 0 | 0 | 0 | 0 | -1880.0 | -1880.0 |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 19108.9 | 74.0 | 32   | 96.62 | 0 | -5.34 | 0 | 0 | 0.61    | 0 | 0 | 0 | 0 | 0 | -131.3  | -131.3  |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 19108.9 | 74.0 | 63   | 96.62 | 0 | -5.34 | 0 | 0 | 2.33    | 0 | 0 | 0 | 0 | 0 | -10.0   | -10.0   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 19108.9 | 74.0 | 125  | 96.62 | 0 | 1.08  | 0 | 0 | 7.85    | 0 | 0 | 0 | 0 | 0 | -13.9   | -13.9   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 19108.9 | 74.0 | 250  | 96.62 | 0 | -0.63 | 0 | 0 | 19.94   | 0 | 0 | 0 | 0 | 0 | -17.2   | -17.2   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 19108.9 | 74.0 | 500  | 96.62 | 0 | -1.6  | 0 | 0 | 36.84   | 0 | 0 | 0 | 0 | 0 | -31.1   | -31.1   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 19108.9 | 74.0 | 1000 | 96.62 | 0 | -1.6  | 0 | 0 | 69.89   | 0 | 0 | 0 | 0 | 0 | -66.6   | -66.6   |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 19108.9 | 74.0 | 2000 | 96.62 | 0 | -1.6  | 0 | 0 | 184.67  | 0 | 0 | 0 | 0 | 0 | -186.9  | -186.9  |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 19108.9 | 74.0 | 4000 | 96.62 | 0 | -1.6  | 0 | 0 | 626.2   | 0 | 0 | 0 | 0 | 0 | -635.3  | -635.3  |
| T33 | 626968.74 | 4765950.41 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 19108.9 | 74.0 | 8000 | 96.62 | 0 | -1.6  | 0 | 0 | 2233.49 | 0 | 0 | 0 | 0 | 0 | -2255.2 | -2255.2 |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 19182.3 | 74.1 | 32   | 96.66 | 0 | -5.35 | 0 | 0 | 0.61    | 0 | 0 | 0 | 0 | 0 | -131.3  | -131.3  |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 19182.3 | 74.1 | 63   | 96.66 | 0 | -5.35 | 0 | 0 | 2.33    | 0 | 0 | 0 | 0 | 0 | -10.1   | -10.1   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 19182.3 | 74.1 | 125  | 96.66 | 0 | 1.08  | 0 | 0 | 7.88    | 0 | 0 | 0 | 0 | 0 | -13.9   | -13.9   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 19182.3 | 74.1 | 250  | 96.66 | 0 | -0.63 | 0 | 0 | 20.01   | 0 | 0 | 0 | 0 | 0 | -17.3   | -17.3   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 19182.3 | 74.1 | 500  | 96.66 | 0 | -1.6  | 0 | 0 | 36.98   | 0 | 0 | 0 | 0 | 0 | -31.2   | -31.2   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 19182.3 | 74.1 | 1000 | 96.66 | 0 | -1.6  | 0 | 0 | 70.16   | 0 | 0 | 0 | 0 | 0 | -66.9   | -66.9   |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 19182.3 | 74.1 | 2000 | 96.66 | 0 | -1.6  | 0 | 0 | 185.38  | 0 | 0 | 0 | 0 | 0 | -187.6  | -187.6  |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 19182.3 | 74.1 | 4000 | 96.66 | 0 | -1.6  | 0 | 0 | 628.61  | 0 | 0 | 0 | 0 | 0 | -637.8  | -637.8  |
| T02 | 627379.82 | 4765942.17 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 19182.3 | 74.1 | 8000 | 96.66 | 0 | -1.6  | 0 | 0 | 2242.07 | 0 | 0 | 0 | 0 | 0 | -2263.8 | -2263.8 |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | -39.4 | -39.4 | 1 | 19461.6 | 73.5 | 32   | 96.78 | 0 | -5.35 | 0 | 0 | 0.62    | 0 | 0 | 0 | 0 | 0 | -131.5  | -131.5  |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 83.6  | 83.6  | 1 | 19461.6 | 73.5 | 63   | 96.78 | 0 | -5.35 | 0 | 0 | 2.37    | 0 | 0 | 0 | 0 | 0 | -10.2   | -10.2   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 91.7  | 91.7  | 1 | 19461.6 | 73.5 | 125  | 96.78 | 0 | 1.08  | 0 | 0 | 8       | 0 | 0 | 0 | 0 | 0 | -14.2   | -14.2   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 98.7  | 98.7  | 1 | 19461.6 | 73.5 | 250  | 96.78 | 0 | -0.63 | 0 | 0 | 20.31   | 0 | 0 | 0 | 0 | 0 | -17.8   | -17.8   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 100.8 | 100.8 | 1 | 19461.6 | 73.5 | 500  | 96.78 | 0 | -1.61 | 0 | 0 | 37.52   | 0 | 0 | 0 | 0 | 0 | -31.9   | -31.9   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 98.3  | 98.3  | 1 | 19461.6 | 73.5 | 1000 | 96.78 | 0 | -1.61 | 0 | 0 | 71.18   | 0 | 0 | 0 | 0 | 0 | -68.1   | -68.1   |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 92.8  | 92.8  | 1 | 19461.6 | 73.5 | 2000 | 96.78 | 0 | -1.61 | 0 | 0 | 188.08  | 0 | 0 | 0 | 0 | 0 | -190.5  | -190.5  |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 85.9  | 85.9  | 1 | 19461.6 | 73.5 | 4000 | 96.78 | 0 | -1.61 | 0 | 0 | 637.76  | 0 | 0 | 0 | 0 | 0 | -647.0  | -647.0  |
| T97 | 617214.68 | 4765641.92 | 317.94 | 182.94 | 0 | 73.3  | 73.3  | 1 | 19461.6 | 73.5 | 8000 | 96.78 | 0 | -1.61 | 0 | 0 | 2274.71 | 0 | 0 | 0 | 0 | 0 | -2296.6 | -2296.6 |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | -39.4 | -39.4 | 1 | 19808.1 | 72.6 | 32   | 96.94 | 0 | -5.37 | 0 | 0 | 0.63    | 0 | 0 | 0 | 0 | 0 | -131.6  | -131.6  |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 83.6  | 83.6  | 1 | 19808.1 | 72.6 | 63   | 96.94 | 0 | -5.37 | 0 | 0 | 2.41    | 0 | 0 | 0 | 0 | 0 | -10.4   | -10.4   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 91.7  | 91.7  | 1 | 19808.1 | 72.6 | 125  | 96.94 | 0 | 1.07  | 0 | 0 | 8.14    | 0 | 0 | 0 | 0 | 0 | -14.5   | -14.5   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 98.7  | 98.7  | 1 | 19808.1 | 72.6 | 250  | 96.94 | 0 | -0.64 | 0 | 0 | 20.67   | 0 | 0 | 0 | 0 | 0 | -18.3   | -18.3   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 100.8 | 100.8 | 1 | 19808.1 | 72.6 | 500  | 96.94 | 0 | -1.61 | 0 | 0 | 38.19   | 0 | 0 | 0 | 0 | 0 | -32.7   | -32.7   |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 98.3  | 98.3  | 1 | 19808.1 | 72.6 | 1000 | 96.94 | 0 | -1.61 | 0 | 0 | 72.45   | 0 | 0 | 0 | 0 | 0 | -69.5   | -69.5   |

|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 92.8  | 92.8  | 1 | 19808.1 | 72.6 | 2000 | 96.94 | 0 | -1.61 | 0 | 0 | 191.42  | 0 | 0 | 0 | 0 | 0 | 0 | -194.0  | -194.0  |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 85.9  | 85.9  | 1 | 19808.1 | 72.6 | 4000 | 96.94 | 0 | -1.61 | 0 | 0 | 649.11  | 0 | 0 | 0 | 0 | 0 | 0 | -658.5  | -658.5  |
| T08 | 614544.5  | 4764911.35 | 315.73 | 180.73 | 0 | 73.3  | 73.3  | 1 | 19808.1 | 72.6 | 8000 | 96.94 | 0 | -1.61 | 0 | 0 | 2315.2  | 0 | 0 | 0 | 0 | 0 | 0 | -2337.2 | -2337.2 |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | -39.4 | -39.4 | 1 | 20064.5 | 74.9 | 32   | 97.05 | 0 | -5.37 | 0 | 0 | 0.64    | 0 | 0 | 0 | 0 | 0 | 0 | -131.7  | -131.7  |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 83.6  | 83.6  | 1 | 20064.5 | 74.9 | 63   | 97.05 | 0 | -5.37 | 0 | 0 | 2.44    | 0 | 0 | 0 | 0 | 0 | 0 | -10.5   | -10.5   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 91.7  | 91.7  | 1 | 20064.5 | 74.9 | 125  | 97.05 | 0 | 1.07  | 0 | 0 | 8.25    | 0 | 0 | 0 | 0 | 0 | 0 | -14.7   | -14.7   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 98.7  | 98.7  | 1 | 20064.5 | 74.9 | 250  | 97.05 | 0 | -0.64 | 0 | 0 | 20.93   | 0 | 0 | 0 | 0 | 0 | 0 | -18.6   | -18.6   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 100.8 | 100.8 | 1 | 20064.5 | 74.9 | 500  | 97.05 | 0 | -1.61 | 0 | 0 | 38.68   | 0 | 0 | 0 | 0 | 0 | 0 | -33.3   | -33.3   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 98.3  | 98.3  | 1 | 20064.5 | 74.9 | 1000 | 97.05 | 0 | -1.61 | 0 | 0 | 73.39   | 0 | 0 | 0 | 0 | 0 | 0 | -70.5   | -70.5   |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 92.8  | 92.8  | 1 | 20064.5 | 74.9 | 2000 | 97.05 | 0 | -1.61 | 0 | 0 | 193.9   | 0 | 0 | 0 | 0 | 0 | 0 | -196.5  | -196.5  |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 85.9  | 85.9  | 1 | 20064.5 | 74.9 | 4000 | 97.05 | 0 | -1.61 | 0 | 0 | 657.51  | 0 | 0 | 0 | 0 | 0 | 0 | -667.1  | -667.1  |
| T06 | 623095.6  | 4767244.45 | 320.97 | 185.97 | 0 | 73.3  | 73.3  | 1 | 20064.5 | 74.9 | 8000 | 97.05 | 0 | -1.61 | 0 | 0 | 2345.17 | 0 | 0 | 0 | 0 | 0 | 0 | -2367.3 | -2367.3 |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 20205.8 | 74.6 | 32   | 97.11 | 0 | -5.38 | 0 | 0 | 0.65    | 0 | 0 | 0 | 0 | 0 | 0 | -131.8  | -131.8  |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 20205.8 | 74.6 | 63   | 97.11 | 0 | -5.38 | 0 | 0 | 2.46    | 0 | 0 | 0 | 0 | 0 | 0 | -10.6   | -10.6   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 20205.8 | 74.6 | 125  | 97.11 | 0 | 1.07  | 0 | 0 | 8.3     | 0 | 0 | 0 | 0 | 0 | 0 | -14.8   | -14.8   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 20205.8 | 74.6 | 250  | 97.11 | 0 | -0.64 | 0 | 0 | 21.08   | 0 | 0 | 0 | 0 | 0 | 0 | -18.9   | -18.9   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 20205.8 | 74.6 | 500  | 97.11 | 0 | -1.61 | 0 | 0 | 38.95   | 0 | 0 | 0 | 0 | 0 | 0 | -33.7   | -33.7   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 20205.8 | 74.6 | 1000 | 97.11 | 0 | -1.61 | 0 | 0 | 73.91   | 0 | 0 | 0 | 0 | 0 | 0 | -71.1   | -71.1   |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 20205.8 | 74.6 | 2000 | 97.11 | 0 | -1.61 | 0 | 0 | 195.27  | 0 | 0 | 0 | 0 | 0 | 0 | -198.0  | -198.0  |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 20205.8 | 74.6 | 4000 | 97.11 | 0 | -1.61 | 0 | 0 | 662.14  | 0 | 0 | 0 | 0 | 0 | 0 | -671.7  | -671.7  |
| T18 | 630122.54 | 4766228.77 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 20205.8 | 74.6 | 8000 | 97.11 | 0 | -1.61 | 0 | 0 | 2361.69 | 0 | 0 | 0 | 0 | 0 | 0 | -2383.9 | -2383.9 |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 20575.4 | 74.6 | 32   | 97.27 | 0 | -5.39 | 0 | 0 | 0.66    | 0 | 0 | 0 | 0 | 0 | 0 | -131.9  | -131.9  |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 20575.4 | 74.6 | 63   | 97.27 | 0 | -5.39 | 0 | 0 | 2.5     | 0 | 0 | 0 | 0 | 0 | 0 | -10.8   | -10.8   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 20575.4 | 74.6 | 125  | 97.27 | 0 | 1.07  | 0 | 0 | 8.46    | 0 | 0 | 0 | 0 | 0 | 0 | -15.1   | -15.1   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 20575.4 | 74.6 | 250  | 97.27 | 0 | -0.64 | 0 | 0 | 21.47   | 0 | 0 | 0 | 0 | 0 | 0 | -19.4   | -19.4   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 20575.4 | 74.6 | 500  | 97.27 | 0 | -1.62 | 0 | 0 | 39.67   | 0 | 0 | 0 | 0 | 0 | 0 | -34.5   | -34.5   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 20575.4 | 74.6 | 1000 | 97.27 | 0 | -1.62 | 0 | 0 | 75.26   | 0 | 0 | 0 | 0 | 0 | 0 | -72.6   | -72.6   |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 20575.4 | 74.6 | 2000 | 97.27 | 0 | -1.62 | 0 | 0 | 198.84  | 0 | 0 | 0 | 0 | 0 | 0 | -201.7  | -201.7  |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 20575.4 | 74.6 | 4000 | 97.27 | 0 | -1.62 | 0 | 0 | 674.26  | 0 | 0 | 0 | 0 | 0 | 0 | -684.0  | -684.0  |
| T93 | 618324    | 4767127    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 20575.4 | 74.6 | 8000 | 97.27 | 0 | -1.62 | 0 | 0 | 2404.89 | 0 | 0 | 0 | 0 | 0 | 0 | -2427.2 | -2427.2 |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 20971.7 | 73.4 | 32   | 97.43 | 0 | -5.4  | 0 | 0 | 0.67    | 0 | 0 | 0 | 0 | 0 | 0 | -132.1  | -132.1  |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 20971.7 | 73.4 | 63   | 97.43 | 0 | -5.4  | 0 | 0 | 2.55    | 0 | 0 | 0 | 0 | 0 | 0 | -11.0   | -11.0   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 20971.7 | 73.4 | 125  | 97.43 | 0 | 1.06  | 0 | 0 | 8.62    | 0 | 0 | 0 | 0 | 0 | 0 | -15.4   | -15.4   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 20971.7 | 73.4 | 250  | 97.43 | 0 | -0.65 | 0 | 0 | 21.88   | 0 | 0 | 0 | 0 | 0 | 0 | -20.0   | -20.0   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 20971.7 | 73.4 | 500  | 97.43 | 0 | -1.62 | 0 | 0 | 40.43   | 0 | 0 | 0 | 0 | 0 | 0 | -35.4   | -35.4   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 20971.7 | 73.4 | 1000 | 97.43 | 0 | -1.62 | 0 | 0 | 76.71   | 0 | 0 | 0 | 0 | 0 | 0 | -74.2   | -74.2   |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 20971.7 | 73.4 | 2000 | 97.43 | 0 | -1.62 | 0 | 0 | 202.67  | 0 | 0 | 0 | 0 | 0 | 0 | -205.7  | -205.7  |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 20971.7 | 73.4 | 4000 | 97.43 | 0 | -1.62 | 0 | 0 | 687.25  | 0 | 0 | 0 | 0 | 0 | 0 | -697.2  | -697.2  |
| T04 | 627524.37 | 4767739.71 | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 20971.7 | 73.4 | 8000 | 97.43 | 0 | -1.62 | 0 | 0 | 2451.22 | 0 | 0 | 0 | 0 | 0 | 0 | -2473.7 | -2473.7 |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 20998.5 | 74.1 | 32   | 97.44 | 0 | -5.4  | 0 | 0 | 0.67    | 0 | 0 | 0 | 0 | 0 | 0 | -132.1  | -132.1  |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 20998.5 | 74.1 | 63   | 97.44 | 0 | -5.4  | 0 | 0 | 2.56    | 0 | 0 | 0 | 0 | 0 | 0 | -11.0   | -11.0   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 20998.5 | 74.1 | 125  | 97.44 | 0 | 1.06  | 0 | 0 | 8.63    | 0 | 0 | 0 | 0 | 0 | 0 | -15.4   | -15.4   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 20998.5 | 74.1 | 250  | 97.44 | 0 | -0.65 | 0 | 0 | 21.91   | 0 | 0 | 0 | 0 | 0 | 0 | -20.0   | -20.0   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 20998.5 | 74.1 | 500  | 97.44 | 0 | -1.62 | 0 | 0 | 40.48   | 0 | 0 | 0 | 0 | 0 | 0 | -35.5   | -35.5   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 20998.5 | 74.1 | 1000 | 97.44 | 0 | -1.62 | 0 | 0 | 76.81   | 0 | 0 | 0 | 0 | 0 | 0 | -74.3   | -74.3   |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 20998.5 | 74.1 | 2000 | 97.44 | 0 | -1.62 | 0 | 0 | 202.93  | 0 | 0 | 0 | 0 | 0 | 0 | -206.0  | -206.0  |
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 20998.5 | 74.1 | 4000 | 97.44 | 0 | -1.62 | 0 | 0 | 688.12  | 0 | 0 | 0 | 0 | 0 | 0 | -698.1  | -698.1  |



|     |           |            |        |        |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|--------|--------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T81 | 616342.83 | 4766967    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 20998.5 | 74.1 | 8000 | 97.44 | 0 | -1.62 | 0 | 0 | 2454.35 | 0 | 0 | 0 | 0 | 0 | 0 | -2476.9 | -2476.9 |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21072.3 | 73.7 | 32   | 97.47 | 0 | -5.4  | 0 | 0 | 0.67    | 0 | 0 | 0 | 0 | 0 | 0 | -132.1  | -132.1  |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 21072.3 | 73.7 | 63   | 97.47 | 0 | -5.4  | 0 | 0 | 2.56    | 0 | 0 | 0 | 0 | 0 | 0 | -11.0   | -11.0   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 21072.3 | 73.7 | 125  | 97.47 | 0 | 1.06  | 0 | 0 | 8.66    | 0 | 0 | 0 | 0 | 0 | 0 | -15.5   | -15.5   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 21072.3 | 73.7 | 250  | 97.47 | 0 | -0.65 | 0 | 0 | 21.99   | 0 | 0 | 0 | 0 | 0 | 0 | -20.1   | -20.1   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 21072.3 | 73.7 | 500  | 97.47 | 0 | -1.62 | 0 | 0 | 40.62   | 0 | 0 | 0 | 0 | 0 | 0 | -35.7   | -35.7   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 21072.3 | 73.7 | 1000 | 97.47 | 0 | -1.62 | 0 | 0 | 77.08   | 0 | 0 | 0 | 0 | 0 | 0 | -74.6   | -74.6   |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 21072.3 | 73.7 | 2000 | 97.47 | 0 | -1.62 | 0 | 0 | 203.64  | 0 | 0 | 0 | 0 | 0 | 0 | -206.7  | -206.7  |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 21072.3 | 73.7 | 4000 | 97.47 | 0 | -1.62 | 0 | 0 | 690.54  | 0 | 0 | 0 | 0 | 0 | 0 | -700.5  | -700.5  |
| T58 | 628473    | 4767629    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 21072.3 | 73.7 | 8000 | 97.47 | 0 | -1.62 | 0 | 0 | 2462.97 | 0 | 0 | 0 | 0 | 0 | 0 | -2485.5 | -2485.5 |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | -39.4 | -39.4 | 1 | 21408.7 | 74.6 | 32   | 97.61 | 0 | -5.41 | 0 | 0 | 0.69    | 0 | 0 | 0 | 0 | 0 | 0 | -132.3  | -132.3  |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 83.6  | 83.6  | 1 | 21408.7 | 74.6 | 63   | 97.61 | 0 | -5.41 | 0 | 0 | 2.61    | 0 | 0 | 0 | 0 | 0 | 0 | -11.2   | -11.2   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 91.7  | 91.7  | 1 | 21408.7 | 74.6 | 125  | 97.61 | 0 | 1.06  | 0 | 0 | 8.8     | 0 | 0 | 0 | 0 | 0 | 0 | -15.8   | -15.8   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 98.7  | 98.7  | 1 | 21408.7 | 74.6 | 250  | 97.61 | 0 | -0.65 | 0 | 0 | 22.34   | 0 | 0 | 0 | 0 | 0 | 0 | -20.6   | -20.6   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 100.8 | 100.8 | 1 | 21408.7 | 74.6 | 500  | 97.61 | 0 | -1.62 | 0 | 0 | 41.27   | 0 | 0 | 0 | 0 | 0 | 0 | -36.5   | -36.5   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 98.3  | 98.3  | 1 | 21408.7 | 74.6 | 1000 | 97.61 | 0 | -1.62 | 0 | 0 | 78.31   | 0 | 0 | 0 | 0 | 0 | 0 | -76.0   | -76.0   |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 92.8  | 92.8  | 1 | 21408.7 | 74.6 | 2000 | 97.61 | 0 | -1.62 | 0 | 0 | 206.89  | 0 | 0 | 0 | 0 | 0 | 0 | -210.1  | -210.1  |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 85.9  | 85.9  | 1 | 21408.7 | 74.6 | 4000 | 97.61 | 0 | -1.62 | 0 | 0 | 701.56  | 0 | 0 | 0 | 0 | 0 | 0 | -711.7  | -711.7  |
| T52 | 614214.82 | 4766530.6  | 320.65 | 185.65 | 0 | 73.3  | 73.3  | 1 | 21408.7 | 74.6 | 8000 | 97.61 | 0 | -1.62 | 0 | 0 | 2502.29 | 0 | 0 | 0 | 0 | 0 | 0 | -2525.0 | -2525.0 |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | -39.4 | -39.4 | 1 | 21526.4 | 73.6 | 32   | 97.66 | 0 | -5.42 | 0 | 0 | 0.69    | 0 | 0 | 0 | 0 | 0 | 0 | -132.3  | -132.3  |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 83.6  | 83.6  | 1 | 21526.4 | 73.6 | 63   | 97.66 | 0 | -5.42 | 0 | 0 | 2.62    | 0 | 0 | 0 | 0 | 0 | 0 | -11.3   | -11.3   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 91.7  | 91.7  | 1 | 21526.4 | 73.6 | 125  | 97.66 | 0 | 1.06  | 0 | 0 | 8.85    | 0 | 0 | 0 | 0 | 0 | 0 | -15.9   | -15.9   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 98.7  | 98.7  | 1 | 21526.4 | 73.6 | 250  | 97.66 | 0 | -0.65 | 0 | 0 | 22.46   | 0 | 0 | 0 | 0 | 0 | 0 | -20.8   | -20.8   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 100.8 | 100.8 | 1 | 21526.4 | 73.6 | 500  | 97.66 | 0 | -1.62 | 0 | 0 | 41.5    | 0 | 0 | 0 | 0 | 0 | 0 | -36.7   | -36.7   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 98.3  | 98.3  | 1 | 21526.4 | 73.6 | 1000 | 97.66 | 0 | -1.63 | 0 | 0 | 78.74   | 0 | 0 | 0 | 0 | 0 | 0 | -76.5   | -76.5   |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 92.8  | 92.8  | 1 | 21526.4 | 73.6 | 2000 | 97.66 | 0 | -1.63 | 0 | 0 | 208.03  | 0 | 0 | 0 | 0 | 0 | 0 | -211.3  | -211.3  |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 85.9  | 85.9  | 1 | 21526.4 | 73.6 | 4000 | 97.66 | 0 | -1.63 | 0 | 0 | 705.42  | 0 | 0 | 0 | 0 | 0 | 0 | -715.6  | -715.6  |
| T59 | 629963.99 | 4767676.12 | 319.03 | 184.03 | 0 | 73.3  | 73.3  | 1 | 21526.4 | 73.6 | 8000 | 97.66 | 0 | -1.63 | 0 | 0 | 2516.05 | 0 | 0 | 0 | 0 | 0 | 0 | -2538.8 | -2538.8 |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21540.0 | 74.5 | 32   | 97.66 | 0 | -5.42 | 0 | 0 | 0.69    | 0 | 0 | 0 | 0 | 0 | 0 | -132.3  | -132.3  |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 83.6  | 83.6  | 1 | 21540.0 | 74.5 | 63   | 97.66 | 0 | -5.42 | 0 | 0 | 2.62    | 0 | 0 | 0 | 0 | 0 | 0 | -11.3   | -11.3   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 91.7  | 91.7  | 1 | 21540.0 | 74.5 | 125  | 97.66 | 0 | 1.06  | 0 | 0 | 8.85    | 0 | 0 | 0 | 0 | 0 | 0 | -15.9   | -15.9   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 98.7  | 98.7  | 1 | 21540.0 | 74.5 | 250  | 97.66 | 0 | -0.65 | 0 | 0 | 22.47   | 0 | 0 | 0 | 0 | 0 | 0 | -20.8   | -20.8   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 100.8 | 100.8 | 1 | 21540.0 | 74.5 | 500  | 97.66 | 0 | -1.62 | 0 | 0 | 41.53   | 0 | 0 | 0 | 0 | 0 | 0 | -36.8   | -36.8   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 98.3  | 98.3  | 1 | 21540.0 | 74.5 | 1000 | 97.66 | 0 | -1.63 | 0 | 0 | 78.79   | 0 | 0 | 0 | 0 | 0 | 0 | -76.5   | -76.5   |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 92.8  | 92.8  | 1 | 21540.0 | 74.5 | 2000 | 97.66 | 0 | -1.63 | 0 | 0 | 208.16  | 0 | 0 | 0 | 0 | 0 | 0 | -211.4  | -211.4  |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 85.9  | 85.9  | 1 | 21540.0 | 74.5 | 4000 | 97.66 | 0 | -1.63 | 0 | 0 | 705.87  | 0 | 0 | 0 | 0 | 0 | 0 | -716.0  | -716.0  |
| T57 | 624435.2  | 4768696    | 320    | 185    | 0 | 73.3  | 73.3  | 1 | 21540.0 | 74.5 | 8000 | 97.66 | 0 | -1.63 | 0 | 0 | 2517.63 | 0 | 0 | 0 | 0 | 0 | 0 | -2540.4 | -2540.4 |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | -39.4 | -39.4 | 1 | 21542.5 | 76.2 | 32   | 97.67 | 0 | -5.42 | 0 | 0 | 0.69    | 0 | 0 | 0 | 0 | 0 | 0 | -132.3  | -132.3  |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 83.6  | 83.6  | 1 | 21542.5 | 76.2 | 63   | 97.67 | 0 | -5.42 | 0 | 0 | 2.62    | 0 | 0 | 0 | 0 | 0 | 0 | -11.3   | -11.3   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 91.7  | 91.7  | 1 | 21542.5 | 76.2 | 125  | 97.67 | 0 | 1.06  | 0 | 0 | 8.85    | 0 | 0 | 0 | 0 | 0 | 0 | -15.9   | -15.9   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 98.7  | 98.7  | 1 | 21542.5 | 76.2 | 250  | 97.67 | 0 | -0.65 | 0 | 0 | 22.48   | 0 | 0 | 0 | 0 | 0 | 0 | -20.8   | -20.8   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 100.8 | 100.8 | 1 | 21542.5 | 76.2 | 500  | 97.67 | 0 | -1.62 | 0 | 0 | 41.53   | 0 | 0 | 0 | 0 | 0 | 0 | -36.8   | -36.8   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 98.3  | 98.3  | 1 | 21542.5 | 76.2 | 1000 | 97.67 | 0 | -1.63 | 0 | 0 | 78.8    | 0 | 0 | 0 | 0 | 0 | 0 | -76.5   | -76.5   |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 92.8  | 92.8  | 1 | 21542.5 | 76.2 | 2000 | 97.67 | 0 | -1.63 | 0 | 0 | 208.19  | 0 | 0 | 0 | 0 | 0 | 0 | -211.4  | -211.4  |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 85.9  | 85.9  | 1 | 21542.5 | 76.2 | 4000 | 97.67 | 0 | -1.63 | 0 | 0 | 705.95  | 0 | 0 | 0 | 0 | 0 | 0 | -716.1  | -716.1  |
| T27 | 622534.5  | 4768708    | 325    | 190    | 0 | 73.3  | 73.3  | 1 | 21542.5 | 76.2 | 8000 | 97.67 | 0 | -1.63 | 0 | 0 | 2517.93 | 0 | 0 | 0 | 0 | 0 | 0 | -2540.7 | -2540.7 |
| T60 | 630277.42 | 4767682.18 | 320    | 185    | 0 | -39.4 | -39.4 | 1 | 21630.1 | 74.1 | 32   | 97.7  | 0 | -5.42 | 0 | 0 | 0.69    | 0 | 0 | 0 | 0 | 0 | 0 | -132.4  | -132.4  |

|     |           |            |     |     |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|-----|-----------|------------|-----|-----|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T60 | 630277.42 | 4767682.18 | 320 | 185 | 0 | 83.6  | 83.6  | 1 | 21630.1 | 74.1 | 63   | 97.7  | 0 | -5.42 | 0 | 0 | 2.63    | 0 | 0 | 0 | 0 | 0 | 0 | -11.3   | -11.3   |
| T60 | 630277.42 | 4767682.18 | 320 | 185 | 0 | 91.7  | 91.7  | 1 | 21630.1 | 74.1 | 125  | 97.7  | 0 | 1.06  | 0 | 0 | 8.89    | 0 | 0 | 0 | 0 | 0 | 0 | -16.0   | -16.0   |
| T60 | 630277.42 | 4767682.18 | 320 | 185 | 0 | 98.7  | 98.7  | 1 | 21630.1 | 74.1 | 250  | 97.7  | 0 | -0.65 | 0 | 0 | 22.57   | 0 | 0 | 0 | 0 | 0 | 0 | -20.9   | -20.9   |
| T60 | 630277.42 | 4767682.18 | 320 | 185 | 0 | 100.8 | 100.8 | 1 | 21630.1 | 74.1 | 500  | 97.7  | 0 | -1.62 | 0 | 0 | 41.7    | 0 | 0 | 0 | 0 | 0 | 0 | -37.0   | -37.0   |
| T60 | 630277.42 | 4767682.18 | 320 | 185 | 0 | 98.3  | 98.3  | 1 | 21630.1 | 74.1 | 1000 | 97.7  | 0 | -1.63 | 0 | 0 | 79.12   | 0 | 0 | 0 | 0 | 0 | 0 | -76.9   | -76.9   |
| T60 | 630277.42 | 4767682.18 | 320 | 185 | 0 | 92.8  | 92.8  | 1 | 21630.1 | 74.1 | 2000 | 97.7  | 0 | -1.63 | 0 | 0 | 209.03  | 0 | 0 | 0 | 0 | 0 | 0 | -212.3  | -212.3  |
| T60 | 630277.42 | 4767682.18 | 320 | 185 | 0 | 85.9  | 85.9  | 1 | 21630.1 | 74.1 | 4000 | 97.7  | 0 | -1.63 | 0 | 0 | 708.82  | 0 | 0 | 0 | 0 | 0 | 0 | -719.0  | -719.0  |
| T60 | 630277.42 | 4767682.18 | 320 | 185 | 0 | 73.3  | 73.3  | 1 | 21630.1 | 74.1 | 8000 | 97.7  | 0 | -1.63 | 0 | 0 | 2528.17 | 0 | 0 | 0 | 0 | 0 | 0 | -2551.0 | -2551.0 |
| T66 | 619127    | 4768529    | 325 | 190 | 0 | -39.4 | -39.4 | 1 | 21766.1 | 75.8 | 32   | 97.76 | 0 | -5.42 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.4  | -132.4  |
| T66 | 619127    | 4768529    | 325 | 190 | 0 | 83.6  | 83.6  | 1 | 21766.1 | 75.8 | 63   | 97.76 | 0 | -5.42 | 0 | 0 | 2.65    | 0 | 0 | 0 | 0 | 0 | 0 | -11.4   | -11.4   |
| T66 | 619127    | 4768529    | 325 | 190 | 0 | 91.7  | 91.7  | 1 | 21766.1 | 75.8 | 125  | 97.76 | 0 | 1.06  | 0 | 0 | 8.94    | 0 | 0 | 0 | 0 | 0 | 0 | -16.1   | -16.1   |
| T66 | 619127    | 4768529    | 325 | 190 | 0 | 98.7  | 98.7  | 1 | 21766.1 | 75.8 | 250  | 97.76 | 0 | -0.65 | 0 | 0 | 22.71   | 0 | 0 | 0 | 0 | 0 | 0 | -21.1   | -21.1   |
| T66 | 619127    | 4768529    | 325 | 190 | 0 | 100.8 | 100.8 | 1 | 21766.1 | 75.8 | 500  | 97.76 | 0 | -1.63 | 0 | 0 | 41.96   | 0 | 0 | 0 | 0 | 0 | 0 | -37.3   | -37.3   |
| T66 | 619127    | 4768529    | 325 | 190 | 0 | 98.3  | 98.3  | 1 | 21766.1 | 75.8 | 1000 | 97.76 | 0 | -1.63 | 0 | 0 | 79.61   | 0 | 0 | 0 | 0 | 0 | 0 | -77.4   | -77.4   |
| T66 | 619127    | 4768529    | 325 | 190 | 0 | 92.8  | 92.8  | 1 | 21766.1 | 75.8 | 2000 | 97.76 | 0 | -1.63 | 0 | 0 | 210.35  | 0 | 0 | 0 | 0 | 0 | 0 | -213.7  | -213.7  |
| T66 | 619127    | 4768529    | 325 | 190 | 0 | 85.9  | 85.9  | 1 | 21766.1 | 75.8 | 4000 | 97.76 | 0 | -1.63 | 0 | 0 | 713.28  | 0 | 0 | 0 | 0 | 0 | 0 | -723.5  | -723.5  |
| T66 | 619127    | 4768529    | 325 | 190 | 0 | 73.3  | 73.3  | 1 | 21766.1 | 75.8 | 8000 | 97.76 | 0 | -1.63 | 0 | 0 | 2544.07 | 0 | 0 | 0 | 0 | 0 | 0 | -2566.9 | -2566.9 |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | -39.4 | -39.4 | 1 | 21881.4 | 73.3 | 32   | 97.8  | 0 | -5.43 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.5  | -132.5  |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 83.6  | 83.6  | 1 | 21881.4 | 73.3 | 63   | 97.8  | 0 | -5.43 | 0 | 0 | 2.66    | 0 | 0 | 0 | 0 | 0 | 0 | -11.4   | -11.4   |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 91.7  | 91.7  | 1 | 21881.4 | 73.3 | 125  | 97.8  | 0 | 1.05  | 0 | 0 | 8.99    | 0 | 0 | 0 | 0 | 0 | 0 | -16.2   | -16.2   |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 98.7  | 98.7  | 1 | 21881.4 | 73.3 | 250  | 97.8  | 0 | -0.65 | 0 | 0 | 22.83   | 0 | 0 | 0 | 0 | 0 | 0 | -21.3   | -21.3   |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 100.8 | 100.8 | 1 | 21881.4 | 73.3 | 500  | 97.8  | 0 | -1.63 | 0 | 0 | 42.18   | 0 | 0 | 0 | 0 | 0 | 0 | -37.6   | -37.6   |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 98.3  | 98.3  | 1 | 21881.4 | 73.3 | 1000 | 97.8  | 0 | -1.63 | 0 | 0 | 80.04   | 0 | 0 | 0 | 0 | 0 | 0 | -77.9   | -77.9   |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 92.8  | 92.8  | 1 | 21881.4 | 73.3 | 2000 | 97.8  | 0 | -1.63 | 0 | 0 | 211.46  | 0 | 0 | 0 | 0 | 0 | 0 | -214.8  | -214.8  |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 85.9  | 85.9  | 1 | 21881.4 | 73.3 | 4000 | 97.8  | 0 | -1.63 | 0 | 0 | 717.06  | 0 | 0 | 0 | 0 | 0 | 0 | -727.3  | -727.3  |
| T56 | 626599    | 4768825    | 320 | 185 | 0 | 73.3  | 73.3  | 1 | 21881.4 | 73.3 | 8000 | 97.8  | 0 | -1.63 | 0 | 0 | 2557.54 | 0 | 0 | 0 | 0 | 0 | 0 | -2580.4 | -2580.4 |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | -39.4 | -39.4 | 1 | 21930.6 | 73.5 | 32   | 97.82 | 0 | -5.43 | 0 | 0 | 0.7     | 0 | 0 | 0 | 0 | 0 | 0 | -132.5  | -132.5  |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 83.6  | 83.6  | 1 | 21930.6 | 73.5 | 63   | 97.82 | 0 | -5.43 | 0 | 0 | 2.67    | 0 | 0 | 0 | 0 | 0 | 0 | -11.5   | -11.5   |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 91.7  | 91.7  | 1 | 21930.6 | 73.5 | 125  | 97.82 | 0 | 1.05  | 0 | 0 | 9.01    | 0 | 0 | 0 | 0 | 0 | 0 | -16.2   | -16.2   |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 98.7  | 98.7  | 1 | 21930.6 | 73.5 | 250  | 97.82 | 0 | -0.66 | 0 | 0 | 22.88   | 0 | 0 | 0 | 0 | 0 | 0 | -21.4   | -21.4   |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 100.8 | 100.8 | 1 | 21930.6 | 73.5 | 500  | 97.82 | 0 | -1.63 | 0 | 0 | 42.28   | 0 | 0 | 0 | 0 | 0 | 0 | -37.7   | -37.7   |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 98.3  | 98.3  | 1 | 21930.6 | 73.5 | 1000 | 97.82 | 0 | -1.63 | 0 | 0 | 80.22   | 0 | 0 | 0 | 0 | 0 | 0 | -78.1   | -78.1   |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 92.8  | 92.8  | 1 | 21930.6 | 73.5 | 2000 | 97.82 | 0 | -1.63 | 0 | 0 | 211.94  | 0 | 0 | 0 | 0 | 0 | 0 | -215.3  | -215.3  |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 85.9  | 85.9  | 1 | 21930.6 | 73.5 | 4000 | 97.82 | 0 | -1.63 | 0 | 0 | 718.67  | 0 | 0 | 0 | 0 | 0 | 0 | -729.0  | -729.0  |
| T28 | 622516.5  | 4769095.7  | 320 | 185 | 0 | 73.3  | 73.3  | 1 | 21930.6 | 73.5 | 8000 | 97.82 | 0 | -1.63 | 0 | 0 | 2563.29 | 0 | 0 | 0 | 0 | 0 | 0 | -2586.2 | -2586.2 |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | -39.4 | -39.4 | 1 | 22072.4 | 75.8 | 32   | 97.88 | 0 | -5.43 | 0 | 0 | 0.71    | 0 | 0 | 0 | 0 | 0 | 0 | -132.6  | -132.6  |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 83.6  | 83.6  | 1 | 22072.4 | 75.8 | 63   | 97.88 | 0 | -5.43 | 0 | 0 | 2.69    | 0 | 0 | 0 | 0 | 0 | 0 | -11.5   | -11.5   |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 91.7  | 91.7  | 1 | 22072.4 | 75.8 | 125  | 97.88 | 0 | 1.05  | 0 | 0 | 9.07    | 0 | 0 | 0 | 0 | 0 | 0 | -16.3   | -16.3   |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 98.7  | 98.7  | 1 | 22072.4 | 75.8 | 250  | 97.88 | 0 | -0.66 | 0 | 0 | 23.03   | 0 | 0 | 0 | 0 | 0 | 0 | -21.6   | -21.6   |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 100.8 | 100.8 | 1 | 22072.4 | 75.8 | 500  | 97.88 | 0 | -1.63 | 0 | 0 | 42.55   | 0 | 0 | 0 | 0 | 0 | 0 | -38.0   | -38.0   |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 98.3  | 98.3  | 1 | 22072.4 | 75.8 | 1000 | 97.88 | 0 | -1.63 | 0 | 0 | 80.73   | 0 | 0 | 0 | 0 | 0 | 0 | -78.7   | -78.7   |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 92.8  | 92.8  | 1 | 22072.4 | 75.8 | 2000 | 97.88 | 0 | -1.63 | 0 | 0 | 213.31  | 0 | 0 | 0 | 0 | 0 | 0 | -216.8  | -216.8  |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 85.9  | 85.9  | 1 | 22072.4 | 75.8 | 4000 | 97.88 | 0 | -1.63 | 0 | 0 | 723.31  | 0 | 0 | 0 | 0 | 0 | 0 | -733.7  | -733.7  |
| T94 | 618752.11 | 4768764.2  | 325 | 190 | 0 | 73.3  | 73.3  | 1 | 22072.4 | 75.8 | 8000 | 97.88 | 0 | -1.63 | 0 | 0 | 2579.86 | 0 | 0 | 0 | 0 | 0 | 0 | -2602.8 | -2602.8 |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | -39.4 | -39.4 | 1 | 22332.4 | 75.5 | 32   | 97.98 | 0 | -5.44 | 0 | 0 | 0.72    | 0 | 0 | 0 | 0 | 0 | 0 | -132.7  | -132.7  |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | 83.6  | 83.6  | 1 | 22332.4 | 75.5 | 63   | 97.98 | 0 | -5.44 | 0 | 0 | 2.72    | 0 | 0 | 0 | 0 | 0 | 0 | -11.7   | -11.7   |
| T85 | 619135.82 | 4769107.76 | 325 | 190 | 0 | 91.7  | 91.7  | 1 | 22332.4 | 75.5 | 125  | 97.98 | 0 | 1.05  | 0 | 0 | 9.18    | 0 | 0 | 0 | 0 | 0 | 0 | -16.5   | -16.5   |

|     |           |            |       |       |   |       |       |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |         |         |
|-----|-----------|------------|-------|-------|---|-------|-------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---------|---------|
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 98.7  | 98.7  | 1 | 22332.4 | 75.5 | 250  | 97.98 | 0 | -0.66 | 0 | 0 | 23.3    | 0 | 0 | 0 | 0 | 0 | -21.9   | -21.9   |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 100.8 | 100.8 | 1 | 22332.4 | 75.5 | 500  | 97.98 | 0 | -1.63 | 0 | 0 | 43.05   | 0 | 0 | 0 | 0 | 0 | -38.6   | -38.6   |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 98.3  | 98.3  | 1 | 22332.4 | 75.5 | 1000 | 97.98 | 0 | -1.63 | 0 | 0 | 81.68   | 0 | 0 | 0 | 0 | 0 | -79.7   | -79.7   |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 92.8  | 92.8  | 1 | 22332.4 | 75.5 | 2000 | 97.98 | 0 | -1.63 | 0 | 0 | 215.82  | 0 | 0 | 0 | 0 | 0 | -219.4  | -219.4  |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 85.9  | 85.9  | 1 | 22332.4 | 75.5 | 4000 | 97.98 | 0 | -1.63 | 0 | 0 | 731.83  | 0 | 0 | 0 | 0 | 0 | -742.3  | -742.3  |
| T85 | 619135.82 | 4769107.76 | 325   | 190   | 0 | 73.3  | 73.3  | 1 | 22332.4 | 75.5 | 8000 | 97.98 | 0 | -1.63 | 0 | 0 | 2610.25 | 0 | 0 | 0 | 0 | 0 | -2633.3 | -2633.3 |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | -39.4 | -39.4 | 1 | 24716.5 | 74.8 | 32   | 98.86 | 0 | -5.49 | 0 | 0 | 0.79    | 0 | 0 | 0 | 0 | 0 | -133.6  | -133.6  |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 83.6  | 83.6  | 1 | 24716.5 | 74.8 | 63   | 98.86 | 0 | -5.49 | 0 | 0 | 3.01    | 0 | 0 | 0 | 0 | 0 | -12.8   | -12.8   |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 91.7  | 91.7  | 1 | 24716.5 | 74.8 | 125  | 98.86 | 0 | 1.04  | 0 | 0 | 10.16   | 0 | 0 | 0 | 0 | 0 | -18.4   | -18.4   |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 98.7  | 98.7  | 1 | 24716.5 | 74.8 | 250  | 98.86 | 0 | -0.67 | 0 | 0 | 25.79   | 0 | 0 | 0 | 0 | 0 | -25.3   | -25.3   |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 100.8 | 100.8 | 1 | 24716.5 | 74.8 | 500  | 98.86 | 0 | -1.65 | 0 | 0 | 47.65   | 0 | 0 | 0 | 0 | 0 | -44.1   | -44.1   |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 98.3  | 98.3  | 1 | 24716.5 | 74.8 | 1000 | 98.86 | 0 | -1.65 | 0 | 0 | 90.41   | 0 | 0 | 0 | 0 | 0 | -89.3   | -89.3   |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 92.8  | 92.8  | 1 | 24716.5 | 74.8 | 2000 | 98.86 | 0 | -1.65 | 0 | 0 | 238.86  | 0 | 0 | 0 | 0 | 0 | -243.3  | -243.3  |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 85.9  | 85.9  | 1 | 24716.5 | 74.8 | 4000 | 98.86 | 0 | -1.65 | 0 | 0 | 809.96  | 0 | 0 | 0 | 0 | 0 | -821.3  | -821.3  |
| T83 | 615820.98 | 4770714.99 | 325   | 190   | 0 | 73.3  | 73.3  | 1 | 24716.5 | 74.8 | 8000 | 98.86 | 0 | -1.65 | 0 | 0 | 2888.92 | 0 | 0 | 0 | 0 | 0 | -2912.8 | -2912.8 |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | -39.4 | -39.4 | 1 | 25045.9 | 72.6 | 32   | 98.97 | 0 | -5.5  | 0 | 0 | 0.8     | 0 | 0 | 0 | 0 | 0 | -133.7  | -133.7  |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 83.6  | 83.6  | 1 | 25045.9 | 72.6 | 63   | 98.97 | 0 | -5.5  | 0 | 0 | 3.05    | 0 | 0 | 0 | 0 | 0 | -12.9   | -12.9   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 91.7  | 91.7  | 1 | 25045.9 | 72.6 | 125  | 98.97 | 0 | 1.03  | 0 | 0 | 10.29   | 0 | 0 | 0 | 0 | 0 | -18.6   | -18.6   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 98.7  | 98.7  | 1 | 25045.9 | 72.6 | 250  | 98.97 | 0 | -0.68 | 0 | 0 | 26.13   | 0 | 0 | 0 | 0 | 0 | -25.7   | -25.7   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 100.8 | 100.8 | 1 | 25045.9 | 72.6 | 500  | 98.97 | 0 | -1.65 | 0 | 0 | 48.29   | 0 | 0 | 0 | 0 | 0 | -44.8   | -44.8   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 98.3  | 98.3  | 1 | 25045.9 | 72.6 | 1000 | 98.97 | 0 | -1.65 | 0 | 0 | 91.61   | 0 | 0 | 0 | 0 | 0 | -90.6   | -90.6   |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 92.8  | 92.8  | 1 | 25045.9 | 72.6 | 2000 | 98.97 | 0 | -1.65 | 0 | 0 | 242.04  | 0 | 0 | 0 | 0 | 0 | -246.6  | -246.6  |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 85.9  | 85.9  | 1 | 25045.9 | 72.6 | 4000 | 98.97 | 0 | -1.65 | 0 | 0 | 820.76  | 0 | 0 | 0 | 0 | 0 | -832.2  | -832.2  |
| T88 | 615815.61 | 4771058.99 | 320.9 | 185.9 | 0 | 73.3  | 73.3  | 1 | 25045.9 | 72.6 | 8000 | 98.97 | 0 | -1.65 | 0 | 0 | 2927.41 | 0 | 0 | 0 | 0 | 0 | -2951.4 | -2951.4 |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | -39.4 | -39.4 | 1 | 21190.3 | 74.5 | 32   | 97.52 | 0 | -5.41 | 0 | 0 | 0.68    | 0 | 0 | 0 | 0 | 0 | -132.2  | -132.2  |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 86.6  | 86.6  | 1 | 21190.3 | 74.5 | 63   | 97.52 | 0 | -5.41 | 0 | 0 | 2.58    | 0 | 0 | 0 | 0 | 0 | -8.1    | -8.1    |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 94.7  | 94.7  | 1 | 21190.3 | 74.5 | 125  | 97.52 | 0 | 1.06  | 0 | 0 | 8.71    | 0 | 0 | 0 | 0 | 0 | -12.6   | -12.6   |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 94.4  | 94.4  | 1 | 21190.3 | 74.5 | 250  | 97.52 | 0 | -0.65 | 0 | 0 | 22.11   | 0 | 0 | 0 | 0 | 0 | -24.6   | -24.6   |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 97.3  | 97.3  | 1 | 21190.3 | 74.5 | 500  | 97.52 | 0 | -1.62 | 0 | 0 | 40.85   | 0 | 0 | 0 | 0 | 0 | -39.5   | -39.5   |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 98.7  | 98.7  | 1 | 21190.3 | 74.5 | 1000 | 97.52 | 0 | -1.62 | 0 | 0 | 77.51   | 0 | 0 | 0 | 0 | 0 | -74.7   | -74.7   |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 93.8  | 93.8  | 1 | 21190.3 | 74.5 | 2000 | 97.52 | 0 | -1.62 | 0 | 0 | 204.78  | 0 | 0 | 0 | 0 | 0 | -206.9  | -206.9  |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 81.5  | 81.5  | 1 | 21190.3 | 74.5 | 4000 | 97.52 | 0 | -1.62 | 0 | 0 | 694.41  | 0 | 0 | 0 | 0 | 0 | -708.8  | -708.8  |
| T53 | 614455.78 | 4766402.39 | 320   | 185   | 0 | 73.4  | 73.4  | 1 | 21190.3 | 74.5 | 8000 | 97.52 | 0 | -1.62 | 0 | 0 | 2476.76 | 0 | 0 | 0 | 0 | 0 | -2499.3 | -2499.3 |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | -39.4 | -39.4 | 1 | 25438.7 | 71.3 | 32   | 99.11 | 0 | -5.51 | 0 | 0 | 0.81    | 0 | 0 | 0 | 0 | 0 | -133.8  | -133.8  |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 83.6  | 83.6  | 1 | 25438.7 | 71.3 | 63   | 99.11 | 0 | -5.51 | 0 | 0 | 3.1     | 0 | 0 | 0 | 0 | 0 | -13.1   | -13.1   |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 91.7  | 91.7  | 1 | 25438.7 | 71.3 | 125  | 99.11 | 0 | 1.03  | 0 | 0 | 10.45   | 0 | 0 | 0 | 0 | 0 | -18.9   | -18.9   |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 98.7  | 98.7  | 1 | 25438.7 | 71.3 | 250  | 99.11 | 0 | -0.68 | 0 | 0 | 26.54   | 0 | 0 | 0 | 0 | 0 | -26.3   | -26.3   |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 100.8 | 100.8 | 1 | 25438.7 | 71.3 | 500  | 99.11 | 0 | -1.65 | 0 | 0 | 49.04   | 0 | 0 | 0 | 0 | 0 | -45.7   | -45.7   |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 98.3  | 98.3  | 1 | 25438.7 | 71.3 | 1000 | 99.11 | 0 | -1.65 | 0 | 0 | 93.05   | 0 | 0 | 0 | 0 | 0 | -92.2   | -92.2   |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 92.8  | 92.8  | 1 | 25438.7 | 71.3 | 2000 | 99.11 | 0 | -1.65 | 0 | 0 | 245.84  | 0 | 0 | 0 | 0 | 0 | -250.5  | -250.5  |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 85.9  | 85.9  | 1 | 25438.7 | 71.3 | 4000 | 99.11 | 0 | -1.65 | 0 | 0 | 833.63  | 0 | 0 | 0 | 0 | 0 | -845.2  | -845.2  |
| T79 | 630384    | 4771637    | 315   | 180   | 0 | 73.3  | 73.3  | 1 | 25438.7 | 71.3 | 8000 | 99.11 | 0 | -1.65 | 0 | 0 | 2973.33 | 0 | 0 | 0 | 0 | 0 | -2997.5 | -2997.5 |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | -39.4 | -39.4 | 1 | 25719.2 | 70.9 | 32   | 99.21 | 0 | -5.51 | 0 | 0 | 0.82    | 0 | 0 | 0 | 0 | 0 | -133.9  | -133.9  |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 83.6  | 83.6  | 1 | 25719.2 | 70.9 | 63   | 99.21 | 0 | -5.51 | 0 | 0 | 3.13    | 0 | 0 | 0 | 0 | 0 | -13.2   | -13.2   |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 91.7  | 91.7  | 1 | 25719.2 | 70.9 | 125  | 99.21 | 0 | 1.03  | 0 | 0 | 10.57   | 0 | 0 | 0 | 0 | 0 | -19.1   | -19.1   |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 98.7  | 98.7  | 1 | 25719.2 | 70.9 | 250  | 99.21 | 0 | -0.68 | 0 | 0 | 26.83   | 0 | 0 | 0 | 0 | 0 | -26.7   | -26.7   |
| T80 | 630185.71 | 4771983.86 | 315   | 180   | 0 | 100.8 | 100.8 | 1 | 25719.2 | 70.9 | 500  | 99.21 | 0 | -1.65 | 0 | 0 | 49.58   | 0 | 0 | 0 | 0 | 0 | -46.3   | -46.3   |

|                |           |            |     |     |   |      |      |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
|----------------|-----------|------------|-----|-----|---|------|------|---|---------|------|------|-------|---|-------|---|---|---------|---|---|---|---|---|---|---------|---------|
| T80            | 630185.71 | 4771983.86 | 315 | 180 | 0 | 98.3 | 98.3 | 1 | 25719.2 | 70.9 | 1000 | 99.21 | 0 | -1.65 | 0 | 0 | 94.07   | 0 | 0 | 0 | 0 | 0 | 0 | -93.3   | -93.3   |
| T80            | 630185.71 | 4771983.86 | 315 | 180 | 0 | 92.8 | 92.8 | 1 | 25719.2 | 70.9 | 2000 | 99.21 | 0 | -1.65 | 0 | 0 | 248.55  | 0 | 0 | 0 | 0 | 0 | 0 | -253.3  | -253.3  |
| T80            | 630185.71 | 4771983.86 | 315 | 180 | 0 | 85.9 | 85.9 | 1 | 25719.2 | 70.9 | 4000 | 99.21 | 0 | -1.65 | 0 | 0 | 842.82  | 0 | 0 | 0 | 0 | 0 | 0 | -854.5  | -854.5  |
| T80            | 630185.71 | 4771983.86 | 315 | 180 | 0 | 73.3 | 73.3 | 1 | 25719.2 | 70.9 | 8000 | 99.21 | 0 | -1.65 | 0 | 0 | 3006.11 | 0 | 0 | 0 | 0 | 0 | 0 | -3030.4 | -3030.4 |
| Limit. Value C | 40        |            |     |     |   |      |      |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |
| Level D/N:     | 39.3557   |            |     |     |   |      |      |   |         |      |      |       |   |       |   |   |         |   |   |   |   |   |   |         |         |

## **TRANSFORMER BARRIER COORDINATES**

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix F Additional Information

September 30, 2014

1. Substation ST1 (100/133/166 ONAN/ONAF/ONAF MVA Transformer noise source modeled at a height of 3.7m with UTM Coordinates 621960, 4761728) will require a four sided barrier of 5 metres in height above grade. Barrier corner coordinates are:

***Four sided barrier's 4 corner points are provided below***

| <b>4 corners</b> | <b>Easting [m]</b> | <b>Northing [m]</b> |
|------------------|--------------------|---------------------|
| <b>Corner 1</b>  | 621918             | 4761768             |
| <b>Corner 2</b>  | 622000             | 4761771             |
| <b>Corner 3</b>  | 622000             | 4761693             |
| <b>Corner 4</b>  | 621930             | 4761692             |

2. Substation ST2 (100/133/166 ONAN/ONAF/ONAF MVA Transformer noise source modeled at a height of 3.7m with UTM Coordinates 622837, 4754679) will require a two sided barrier of 5 metres in height above grade. This barrier should be placed on south and west side of the transformer and extended at least 2 meters beyond the transformer such that noise flanking is negligible. Barrier corner coordinates are:

***Two sided barrier's 3 corner points are provided below***

| <b>3 corners</b> | <b>Easting [m]</b> | <b>Northing [m]</b> |
|------------------|--------------------|---------------------|
| <b>Corner 1</b>  | 622789             | 4754697             |
| <b>Corner 2</b>  | 622823             | 4754636             |
| <b>Corner 3</b>  | 622891             | 4754667             |

## **Appendix G Response to Ministry of the Environment Technical Review Comments**

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- G1 – Verification of Specific Noise Receptors
- G2 – Supplemental Information to Address MOE Comments
- G3 – Sound Power Level Rationale
- G4 – Supplemental MOECC Receptor Verification Comments



**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

**Appendix G1 – Verification of Specific Noise Receptors**

During the Ministry of the Environment (MOE) Technical Review process and through correspondence received through the 60-day Environmental Bill of Rights (EBR) comment period for this Project, specific noise receptors were identified as requiring additional rationale to justify their location and / or classification in the noise model. These specific receptors were identified, reviewed and discussed with the MOE.

As appropriate, additional information was provided to the MOE to rationalize each of the noise receptors. Where amendments were required, the noise model and associated mapping was updated accordingly. The responses provided below summarize the result of discussions with the MOE.

The following information provides a summary of the issues raised regarding specific noise receptors identified for this Project and the rationale and resulting actions taken to either support or amend the Noise Assessment Report (NAR). Copies of applicable correspondence with the MOE and others in regards to these items are attached:

**Info Request 3: Eric Gillespie Letters**

Concern:

Correspondence received from Mr. Eric Gillespie dated January 28, 2014 (see attached) indicated that at least 2 dwellings have been omitted from the maps in the NAR.

Response:

Stikeman Elliot, on behalf of NRWC, responded on January 31, 2014 (see attached) requesting further information about the location of potential noise receptors suggested to be missing from the Noise Assessment Report. A response was received from Mr. Gillespie dated February 11, 2014 (see attached) stating that at least two houses were omitted from the maps within the northeast portion of the Study Area, although the location of these dwellings was not provided citing a “lack of necessary equipment” and rationale for it being “impossible ... to pinpoint the exact coordinates of these dwellings”.

Further attempts to contact Mr. Gillespie via email (February 12<sup>th</sup> and February 27<sup>th</sup>, 2014) (see attached) by Stikeman Elliot, as well as verbal discussions and phone messages, have not been successful and no further information has been provided as to the location of these omitted dwellings.

In the absence of further information, several supplemental reviews of the existing information were completed by Stantec to confirm the presence of any additional noise receptors within the Study Area.

Areas within the 40 dBA noise contour and the 550 m setback, which were determined to be the most sensitive area, were targeted for more detailed review. Aerial photographs, GIS parcels comparisons and information provided by the area municipalities with respect to new building permits or Planning Act approvals prior to the issuance of the draft site plan in August 2012 were reviewed. The results of this review identified no additional noise receptors within the 40 dBA contour or within 550m of a proposed turbine.

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

Further, 2 receptors were identified within 1.5 km of the proposed turbines that were not previously identified, including receptor O\_4001 (described below under Info Request 6) and receptor V\_4000, which is located on a vacant property along the west side of Caistor Gainsborough Rd. in the Township of West Lincoln.

The predicted noise level at receptor V\_4000 is 36.5 dBA and the nearest turbine (T08) is located 928 m from this receptor. As discussed below, O\_4001 is located 780 m from the closest turbine (T27) and the noise level at this receptor is 38.7 dBA. Both of these receptors are below the 40.0 dBA threshold and more than 550 m from the nearest turbine, and meet the requirements in accordance with O. Reg. 359/09.

**Action:**

Two new receptors have been added to the noise model and summarized in the NAR. There are no impacts on the location of the proposed turbines as a result of these new receptors as they comply with the setbacks and noise thresholds established in O. Reg. 359/09.

**Info Request 4: Receptor 1750****Concern:**

Concerns were raised by the landowner that the existing residence on the property was not identified as such in the NAR. The landowner noted that a dwelling exists on the property, which is part of an operational farm, and that the turbine is located closer to the dwelling than what is identified in the NAR.

**Response:**

Through site investigations, this property was initially identified as a commercial operation and it was determined to be unclear whether the structure in question was used as a residence or as part of the commercial operation. While commercial operations are exempt from assessment, this structure was conservatively identified as a point of reception (POR) and classified as V\_1750 (i.e. "vacant or future, if not currently" considered a receptor) and included in the noise model.

Despite the conflict in naming convention, the POR representing this structure was placed at the exact location of this dwelling. The predicted noise level at this receptor is 39.7 dBA and the nearest turbine (T06) is located at 697 m from the receptor. As such, the minimum REA setback of 550m has been accommodated for this structure and the noise model demonstrates that the sound level was predicted to be less than 40.0 dBA.

See correspondence dated February 12, 2014 (attached).

**Action:**

Based on the supplemental information provided by the landowner, this receptor label has been amended from V\_1750 to O\_1750 to recognize the existing residential use on the property. There are no impacts to the Project since this receptor complies with the minimum setback and noise threshold requirements under O. Reg. 359/09.

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

**Info Request 5: Receptor 3582 and 3583**

Concern:

Concerns were raised by the landowner with respect to the placement of the receptors on the subject property. The landowner claimed that the existing barn, while not currently a dwelling, could be converted to a residential use and therefore should be recognized as a noise receptor. The landowner also claimed that they intend to build a new house on the subject property at a location different than where receptor V\_3583 is located.

Response:

The subject property consists of two distinct parcels, one of which consists of an agricultural field and the other as a former rail line. Receptor V\_3583 is located on the former rail line parcel, while V\_3582 is identified on the property to the east where the existing barn is located. Both receptors are identified as vacant lot receptors as there are no dwellings constructed, or approved for construction, on the subject property.

The existing barn structure does not meet the definition of a noise receptor under O. Reg. 359/09, based on the size, shape and orientation of the structure and surrounding gravel parking area, construction equipment and outside storage containers. Further, the landowner and Township of West Lincoln have acknowledged that the structure is not currently used as a dwelling. In order to be converted to permit a residential use, the structure would have to be changed to comply with the Building Code and approved through the issuance of a building permit, which has not been completed to date (or prior to the issuance of the draft site plan).

The vacant lot receptor (V\_3582) located on this parcel was located between the barn and the road, consistent with the pattern of the area (i.e. houses are typically located between the road and the barn, not behind) and in line with the existing dwelling to the east, in accordance with the MOE Noise Guidelines. It is also located in proximity to a second access to the property. While the landowner may claim to have future plans for a house elsewhere on the property, there is no rationale for this alternate location over others nor an approved building permit or planning approvals for this work (as confirmed by the landowner).

In the absence of a building permit confirming the location of an approved dwelling prior to issuance of the draft site plan, the location of Receptor 3582 reflects a location where a building would “reasonably” be expected to be located, having regard to the existing zoning by-laws and the typical building pattern of lots in the area, in accordance with the requirements of O. Reg. 359/09 and MOE Noise Guidelines.

Further, the location of Turbine T93 complies with all applicable property line and waterbody setback distances defined under O. Reg. 359/09, as illustrated in the supporting REA technical reports under separate cover. See correspondence dated February 12, 2014 (attached). See correspondence dated February 13, 2014, April 17, 2014, April 23, 2014 and May 9, 2014 (attached).

Action:

No amendments to the NAR or no revision of model are required. Confirmation of the information summarized above and included in the attached correspondence has been requested through a *Freedom of Information Act* request to the Township of West Lincoln. This

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

request is being process at the time of the preparation of this report, and once available, this will be provided to the MOE.

**Info Request 6: Receptors 735, 794, 1762, 582, 674 and 148**

***V\_735 – Regional Road 65, West Lincoln***

Concern:

Concern was raised that this lot was incorrectly identified as a vacant property.

Response:

During the site investigations, this property was identified as a potential commercial property and it was determined to be unclear whether the structure in question was used as a residence or as part of the commercial operation. While commercial operations are exempt from assessment, this structure was conservatively identified as a point of reception (POR) and classified as V\_735 (i.e. “vacant or future, if not currently” considered a receptor) and included in the noise model.

Despite the conflict in naming convention, the POR representing this structure was placed at the exact location of this dwelling. The predicted noise level at this receptor is 36.9 dBA and the nearest turbine (T54) is located at 920 m from the receptor. As such, the minimum REA setback of 550m has been accommodated for this structure and the noise model demonstrates that the sound level was predicted to be less than 40.0 dBA. See correspondence dated March 6, 2014 (attached).

Action:

Based on the supplemental information provided by the landowner, this receptor label has been amended from V\_735 to O\_735 to recognize the existing residential use on the property. There are no impacts to the Project since this receptor complies with the minimum setback and noise threshold requirements under O. Reg. 359/09.

***V\_794 – Regional Road 65, West Lincoln***

Concern:

Concern was raised that this lot was incorrectly identified as a vacant property.

Response:

Based on our review of the current aerial photography, field verification during the initial development of the noise model to identify POR's, and review of building permits prior to issuance of the draft site plan, this property is a correctly identified as a vacant property. There is no existing dwelling on this property and no dwelling was approved prior to the issuance of the draft site plan. Receptor V\_794 was appropriately located on the subject property within the noise model. See correspondence dated March 6, 2014 (attached).

Action:

No change to the noise model is required.

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

***V\_1762 – Concession Road 4, West Lincoln***

Concern:

Concern was raised that this lot was incorrectly identified as a vacant property.

Response:

The subject property is located at the intersection of 2 unopened road allowances - Concession 4 (running east-west along the south side of the property) and Dengo Road (running north-south along the east side of the property). The property is also entirely comprised of significant woodland and wetland with no open areas. There is no existing dwelling on the subject property. However, a vacant lot receptor was conservatively identified in the noise model for the subject property.

It is possible that questions arising regarding the location of V\_1762 may be in regards to its location relative to a potential dwelling located on the property to the north. While this adjacent property is represented in the noise model by receptor O\_1758, a second structure is visible at the south of the property closer to V\_1762.

Through air photo interpretation, this second structure could be a dwelling; however verification of this structure was not possible through the physical verification process due to property access and isolation of the property. It appears to be accessible only from a private road that extends from Dengo Rd. at the north of the property and is not visible from a municipal right of way.

While not identified in the noise model, this structure was recognized during the development of the project layout and the appropriate receptor setback and noise threshold were maintained. This structure is located 780 m from the closest turbine (T27) and the noise level at this receptor is 38.7 dBA, which is below the 40.0 dBA threshold. See correspondence dated March 6, 2014 (attached).

Action:

No change is required to the location of V\_1762. However, in recognition of the information provided through the EBR and upon further review of the aerial photography, an additional receptor (O\_4001) has been added to the noise model to reflect the location of the apparent dwelling and the NAR has been updated accordingly.

***O\_148 – Concession 4 Road, West Lincoln***

Concern:

Concerns were raised as to the proximity of this receptor to the closest proposed turbine, which was suggested to be Turbine T08.

Response:

This receptor is correctly positioned on an existing dwelling that fronts onto Concession 4. Turbine T81 is correctly identified as the closest turbine to receptor O\_148 at a distance of approximately 1,180 m. Turbine T08 is not even the second closest turbine to this receptor, as Turbines T52 and T53 are closer. Turbine T08 is located approximately 2,806 m from receptor O\_148. See correspondence dated March 6, 2014 (attached).

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

Action:

No change is required to the NAR tables.

***O\_582 and O\_674 – Elcho Road, West Lincoln***

Concern:

Concerns were raised as to the proximity of this receptor to the closest proposed turbine, which was suggested to be Turbine T08.

Response:

The location of receptor O\_582 and O\_674 are correctly positioned on exiting dwellings fronting onto Elcho Rd. The closest turbine to these receptors is confirmed to be Turbine T07, which is located 612 m and 558 m away, respectively. See correspondence dated March 6, 2014 (attached).

Action:

No changes are required to the NAR tables.

**Info Request 7: Alleged Receptor between Receptors 1481 and 1598**

Concern:

Concern was raised that an occupied home between receptors 1481 and 1598 is that is not shown on the maps or included in the NAR reports as a receptor.

Response:

Upon further reviewing the aerial photographs, property mapping and site photographs of the various structures along this stretch of Regional Rd. 20, all parcels between Receptors 1481 and 1598 are represented by a noise receptor and there are no “occupied homes” that have been missed in the noise model.

See correspondence dated March 13, 2014 (attached).

Action:

No changes to the noise model or NAR are required.

**EKG****ERIC K. GILLESPIE PROFESSIONAL CORPORATION  
BARRISTERS & SOLICITORS**Eric K. Gillespie, LL.B.  
Direct Tel: 416.703.6362  
Email: [egillespie@gillespie-law.ca](mailto:egillespie@gillespie-law.ca)**FACSIMILE TRANSMISSION**

| TO        | FIRM                            | FACSIMILE NO. |
|-----------|---------------------------------|---------------|
| President | Niagara Region Wind Corporation | 416-314-8452  |

**From:** ERIC K. GILLESPIE

**Firm:** ERIC K. GILLESPIE PROFESSIONAL CORPORATION

**Date:** January 28, 2014

**Re:** Niagara Region Wind Farm – Unidentified Noise Receptors  
**Our File No.:** 00717

**PAGES (including cover sheet): 2**

If you do not receive all pages, please phone Sarah Qulldon at (416) 703-5400

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**MESSAGE: Our letter dated January 28, 2014**

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10 King Street East, Suite 600, Toronto, Ontario M5C 1G3, Canada  
TEL: 416.703.5400 | FAX: 416.703.9111



**EKG****ERIC K. GILLESPIE PROFESSIONAL CORPORATION  
BARRISTERS & SOLICITORS**

Eric K. Gillespie, LL.B.  
Direct Tel: 416.703.6362  
Email: [egil@gillespie.ca](mailto:egil@gillespie.ca)

January 28, 2014

**By Post**

President  
Niagara Region Wind Corporation  
277 Lakeshore Road East, Suite 211  
Oakville, Ontario  
L6J 6J3

Dear Sir or Madam:

**Re: Niagara Region Wind Farm – Unidentified Noise Receptors  
Our File No. 00717**

We have been retained by individuals concerned with the improper identification of noise receptors in the Niagara Region Wind Farm (the "Project") as required under the Guidelines for Renewable Energy Approval Applications and under Ontario Regulation 359/09. Specifically the maps made publically available for the Project do not include at least two noise receptors that were in existence long prior to the publication of the Notice of Draft Site Plan and as such as considered dwellings for the purposes of the Renewable Energy Approval Application. As a result it is impossible to properly calculate the required noise levels and setback distances for these dwellings and for the Project as a whole.

We look forward to your prompt response to these concerns.

Yours truly,

**ERIC K. GILLESPIE  
PROFESSIONAL CORPORATION**



Eric K. Gillespie  
EKG/ga

cc Sarah Raetsen, Senior Program Support Coordinator, Ministry of the Environment, Fax: 416-314-8452

10 King Street East, Suite 600, Toronto, Ontario M5C 1C3, Canada  
TEL: 416.703.3400 | FAX: 416.703.9111

# STIKEMAN ELLIOTT

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E-mail: pduffy@stikeman.com

**BY E-MAIL**  
(egillespie@gillespielaw.ca)

January 31, 2014  
File No.: 130367-1001

Mr. Eric Gillespie  
Eric K. Gillespie Professional Corporation  
Barristers and Solicitors  
10 King Street East, Suite 600  
Toronto, ON M5C 1C3

Dear Sirs/Mesdames:

**Re: Niagara Region Wind Farm - Unidentified Noise Receptors**

We are the solicitors for Niagara Region Wind Corporation ("NRWC") and write with respect to your letter of January 28, 2014. Your letter provides insufficient information for NRWC to address the concerns your clients have raised. Please provide us with further information about the potential noise receptors that you believe qualify as dwellings for the purposes of Regulation 359/09. At a minimum, we require municipal addresses for each of the potential receptors. Any additional information you could provide about the potential receptors (i.e. a description of the dwelling, photographs, etc.) would also be helpful.

We ask that you provide the requested information as soon as possible so that NRWC can respond to these concerns in a timely manner.

Yours truly,



Patrick Duffy

PD/il

c.c.: Jim Harbell, *Stikeman Elliott LLP*  
Sarah Raetsen, *Ministry of Environment, (via fax (416) 314-8452)*

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**ERIC K. GILLESPIE PROFESSIONAL CORPORATION  
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February 11, 2014

***By Facsimile***

Sarah Raetsen  
Senior Program Support Coordinator  
Environmental Approvals Branch, Ministry of the Environment  
2 St. Clair Avenue West, Floor 12 A  
Toronto, Ontario M4V 1L5  
Fax: (416) 314-8452

Dear Ms. Raetsen:

**Re: Niagara Region Wind Farm – Unidentified Noise Receptors  
Our File No. 00717**

Thank you for your letter of January 29, 2014. Our clients are aware of at least two houses located within the block bounded by Regional Road 69 to the north, Regional Road 24/Victoria Avenue to the east, and Regional Road 20 to the west and south in the West Lincoln area that have been omitted from the maps made publicly available and, presumably, submitted to the Ministry as part of Niagara Region Wind Corporation's Renewable Energy Approval application package. These dwellings were in existence for a number of years prior to the beginning of this project and, as a result, there does not appear to be any reason why they should have been omitted from the maps. Not having the necessary equipment, it is impossible for our clients to pinpoint the exact coordinates of these dwellings. However, we look forward to hearing from you regarding Niagara Region Wind Corporation's response to these omissions and the results of their review of the project's receptor location maps.

Yours truly,

**ERIC K. GILLESPIE  
PROFESSIONAL CORPORATION**

Eric K. Gillespie  
EKG/ga

## Powell, Chris

---

**From:** Patrick Duffy <PDuffy@stikeman.com>  
**Sent:** Thursday, February 27, 2014 12:39 PM  
**To:** 'egillespie@gillespielaw.ca'  
**Cc:** Jim Harbell  
**Subject:** RE: NRWC re Unidentified Noise Receptors  
**Attachments:** NRWC - Letter to Gillespie re Unidentified Noise Receptors (Dated Jan 31,....pdf)

Eric – Further to my emails below, please get back to us as soon as possible with details of the potential noise receptors referenced in your letter of January 28.

**Patrick Duffy**  
Tel : (416) 869-5257  
[pduffy@stikeman.com](mailto:pduffy@stikeman.com)

---

**From:** Patrick Duffy  
**Sent:** Wednesday, February 12, 2014 12:38 PM  
**To:** 'egillespie@gillespielaw.ca'  
**Cc:** Jim Harbell  
**Subject:** RE: NRWC re Unidentified Noise Receptors

Eric - I appreciate you have a few other things going on this week, but can you get back to us on the attached letter as soon as possible. If there is someone else in our office we should be dealing with on this matter, just let me know. Thanks.

**Patrick Duffy**  
Tel : (416) 869-5257  
[pduffy@stikeman.com](mailto:pduffy@stikeman.com)

---

**From:** Ivy C Lee **On Behalf Of** Patrick Duffy  
**Sent:** Friday, January 31, 2014 2:57 PM  
**To:** 'egillespie@gillespielaw.ca'  
**Cc:** Jim Harbell; Patrick Duffy  
**Subject:** NRWC re Unidentified Noise Receptors

Dear Mr. Gillespie,

Please see attached.

Regards,  
Ivy

**Ivy Lee**  
Legal Administrative Assistant to Patrick Duffy  
Tel : (416) 869-5569  
[ilee@stikeman.com](mailto:ilee@stikeman.com)

## Powell, Chris

---

**From:** Powell, Chris  
**Sent:** Thursday, March 06, 2014 1:45 PM  
**To:** Miller, Denton (ENE)  
**Cc:** Raetsen, Sarah (ENE); Darren Croghan; Leggett, Al; Patrick Duffy  
**Subject:** RE: NWCF Info Request - 3b MOE ref file # 1175-972NB9

Denton,

To my knowledge, there has been no response to the letter sent to Mr. Gillespie's office regarding this issue dated January 31, 2014. However, I will follow-up with NRWC to confirm if any further contact has been made with / received from Mr. Gillespie's office and will advise you as soon as possible with an update.

Sincerely,

Chris

**Chris Powell, M.A.**  
Project Manager, Environmental Planner  
Associate, Environmental Services  
Stantec Consulting Ltd.

Office: (519) 585-7416  
Cell: (519) 501-2368  
[chris.powell@stantec.com](mailto:chris.powell@stantec.com)

---

**From:** Miller, Denton (ENE) [Denton.Miller@ontario.ca]  
**Sent:** March 6, 2014 12:58 PM  
**To:** Powell, Chris  
**Cc:** Raetsen, Sarah (ENE)  
**Subject:** RE: NWCF Info Request - 3b MOE ref file # 1175-972NB9

Hello Chris

Did you receive a response from Eric Gillespie re our Jan 30, 2014 e-mail info request 3 to your office ?

Attached is a letter that EAB received from Eric Gillespie addressing the same issue .

*Regards*  
*Denton Miller*  
*416-314-8310*

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]  
**Sent:** January 31, 2014 3:39 PM  
**To:** Raetsen, Sarah (ENE); Miller, Denton (ENE)  
**Cc:** Leggett, Al; 'mervcroghan@nrwc.ca'; 'darrenc@nrwc.ca'; 'sberriman@nrwc.ca'; 'pduffy@stikeman.com'; 'JHarbell@stikeman.com'  
**Subject:** Fw: Niagara Region Wind Farm Information request - 3 MOE ref file # 1175-972NB9

Sarah / Denton,

In regards to the letter from Mr. Gillespie, NRWC has followed up with his firm to seek clarification on the location of the referenced noise receptors (see attached).

We will keep you informed of any response and once confirmed, will advise of the outcome.

Chris

Chris Powell, M.A.  
Project Manager  
Environmental Planner  
Stantec  
Cell: (519) 501-2368

Sent from my Blackberry

---

**From:** Patrick Duffy [<mailto:PDuffy@stikeman.com>]  
**Sent:** Friday, January 31, 2014 02:56 PM  
**To:** 'egillespie@gillespielaw.ca' <[egillespie@gillespielaw.ca](mailto:egillespie@gillespielaw.ca)>  
**Cc:** Jim Harbell <[JHarbell@stikeman.com](mailto:JHarbell@stikeman.com)>; Patrick Duffy <[PDuffy@stikeman.com](mailto:PDuffy@stikeman.com)>  
**Subject:** NRWC re Unidentified Noise Receptors

Dear Mr. Gillespie,

Please see attached.

Regards,  
Ivy

**Ivy Lee**  
Legal Administrative Assistant to Patrick Duffy  
Tel : (416) 869-5569  
[ilee@stikeman.com](mailto:ilee@stikeman.com)

**STIKEMAN ELLIOTT LLP** Barristers & Solicitors  
5300 Commerce Court West, 199 Bay Street, Toronto, ON, Canada M5L 1B9  
[www.stikeman.com](http://www.stikeman.com)

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**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

**Appendix G2 – Supplemental Information to Address MOE Comments**

During the Ministry of the Environment (MOE) Technical Review process and through correspondence received through the 60-day Environmental Bill of Rights (EBR) comment period for this Project, additional information was requested by the MOE to complete their technical review of the NAR.

The following information provides a summary of the additional information requested by the MOE for this Project and the corresponding response from the project team. Copies of applicable correspondence with the MOE and others in regards to these items are attached:

**Munich Higher Regional Court's Decision**

Concern:

MOE requested comments from Enercon on the following court decision identified via an EBR comment:

The Munich Higher Regional Court's decision pertinent to impulsive sound from Enercon E-82 wind turbines in a wind farm located in Rennertshofen in the district of Neuburg-Schrobenhausen. Judgment OLG München 14.08.2012

Response:

The following comments were provided by Enercon, the manufacturer of the E-82 turbine, in response to MOE's request for information on this issue:

The article referenced is in regard to a claim and subsequent ruling which has been made against Enercon regarding the impulsivity of E-82 turbines in one of its wind parks near Munich, Germany. Enercon is in full disagreement with the ruling and are launching a full appeal against the region.

In response, as per the official comments from Enercon GmbH made on this issue:  
"for us, this ruling is completely incomprehensible", says Felix Rehwald,  
Spokesperson for Europe's largest wind turbine manufacturer Enercon.

He continues to comment that Enercon manufactures, sells and guarantees its turbines worldwide against tonality (in accordance with the IEC standards) and furthermore that Enercon's own specialists in sound power have yet to yield any measurements which would indicate impulsivity of the turbines and as such, Enercon is launching counter-proceedings in the way of an appeal against the ruling.

The court case in Germany is not related to the NRWC project from a technical and environmental permitting perspective. See correspondence dated April 16, 2014 (attached).



**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

Action:

The noise model has been completed in accordance with the sound power level information provided by Enercon, as supported by Kotter. No adjustments are required.

**Rosa Flora Turbine**

Concern:

The source data for the Rosa Flora turbine described in the NAR and as identified in the supporting Cadna files provided to the MOE reference different sound power levels for this existing turbine.

Response:

The Rosa Flora turbine is a 0.65 MW (650 kW) turbine located approximately 3,500 m from the nearest NRWC turbine. The maximum sound power level for this turbine as used in the noise model is 103.5 dBA, as noted in Section 3.3 (page 3.9). This is further confirmed in the sample calculation and Cadna/A input/outputs table provided in Appendix E of the NAR and in the adjusted emission level for the Rosa Flora turbine identified in Table F1 of Appendix F of the NAR. This value was rounded to 104 dBA in Table 3.8 of the NAR.

Further, the version of the Cadna file that was provided to the MOE as part of the technical review process consisted a lower number. The correct version of this file representing the 103.5 dBA sound pressure level, as used in the noise model for this Project, was provided to the MOE. See correspondence dated April 16, 2014 (attached).

Action:

To avoid confusion, Table 3.8 has been amended to illustrate a maximum sound power level of 103.5 dBA, as used in the noise model for this individual turbine. No changes to the tables in Appendix C, E or F of the NAR are required.

## Powell, Chris

---

**From:** Miller, Denton (ENE) <Denton.Miller@ontario.ca>  
**Sent:** Thursday, February 13, 2014 10:40 AM  
**To:** Powell, Chris  
**Cc:** Raetsen, Sarah (ENE)  
**Subject:** RE: NRW Information request - 4 MOE ref file # 1175-972NB9

Hello Chris

We are satisfied with your explanation.

NRWC will be required to update the current noise study (or submit an amendment) addressing the noted oversights in the September 2013 noise study.

Regards

DM

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]  
**Sent:** February 10, 2014 2:57 PM  
**To:** Miller, Denton (ENE)  
**Cc:** Raetsen, Sarah (ENE); Ganesh, Kana; Leggett, Al; Darren Croghan; Merv Croghan; Shiloh Berriman ([sberriman@nrwc.ca](mailto:sberriman@nrwc.ca))  
**Subject:** RE: NRW Information request - 4 MOE ref file # 1175-972NB9

Denton,

We have looked into this request and offer the following rationale for the identification of this receptor as identified in the Noise Assessment Report:

During the initial development of the noise model, and identification of receptors (POR's), our field crews reviewed each of the potential POR's to confirm and verify the appropriate classification of these structures. Based on their site investigations, our field crew identified this particular property as "potentially commercial" due to several exhaust fans and dust collector style structures within the property. The following are two photographs of the subject property, with Receptor 1750 visible in both photos (behind trees in photo 1, more visible in photo 2):

Photo 1:



Photo 2:



The guidelines for wind farms suggest the following:

*For the purpose of approval of new sources, including verifying compliance with section 9 of the Environmental Protection Act, the Point of Reception may be located on any of the following existing or zoned for future use premises: permanent or seasonal residences, hotels/motels, nursing/retirement homes, rental residences,*

hospitals, camp grounds, and noise sensitive buildings such as schools and places of worship. A point of receptor is defined as a sensitive land use.

Typically, commercial properties are exempted from assessment, however, it was not possible to verify whether this structure was in fact commercial or supporting a residential use. Therefore, we conservatively identified this structure as a receptor (1750). Our initial thought was to identify this structure as "Other", but later decided to have a "V\_" suffix applied to this structure to mean "vacant or future, if not currently" considered a receptor.

Despite the conflict in naming convention, the POR representing this structure was placed at the exact location as the current location of this house. The predicted noise level at this POR is 39.7 dBA and the nearest turbine (T06) is located at 697 m from the receptor. As such, the minimum REA setback of 550m has been accommodated for this structure and the model demonstrates that the sound level was predicted to be less than 40.0 dBA

We trust that this clarifies the question from the public and for your consideration during the technical review process.

If you have any further questions, please do not hesitate to ask.

Sincerely,

Chris

---

**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Monday, February 03, 2014 11:02 AM  
**To:** Powell, Chris  
**Cc:** Raetsen, Sarah (ENE)  
**Subject:** RE: NRWF Information request - 4 MOE ref file # 1175-972NB9

Hi Chris

We have been approached by the owner of the lot that contains V\_1750 ( re: your Sept 30 , 2013 noise report). He has made the following assertion:

I am the OPERATIONAL FARM that has been in business since 1958 and I am marked as VACANT and the turbine is much closer than what NRWC has submitted.

The following is additional information about V\_1750 as noted in the Sept 30 , 2013 noise report .

| Receiver ID | Night<br>(dBA) | Height<br>(m) | Coordinates |              |          |
|-------------|----------------|---------------|-------------|--------------|----------|
|             |                |               | X<br>(m)    | Y<br>(m)     | Z<br>(m) |
| V_1750      | 39.7           | 4.5           | 623,336.69  | 4,766,590.11 | 189.5    |



Please provide rationale why this receptor was deemed to be a vacant lot.

*Regards*  
*Denton Miller*  
*416-314-8310*

## Powell, Chris

---

**From:** Powell, Chris  
**Sent:** Thursday, February 13, 2014 2:16 PM  
**To:** 'Miller, Denton (ENE)'  
**Cc:** Raetsen, Sarah (ENE); Leggett, Al; Darren Croghan  
**Subject:** RE: NRWC info request -5 Letter dated Jan 22, 2014 Receptor 3583  
**Attachments:** Attachment 1 - Subject Properties.jpg; Attachment 2 - Aerial of Barn Building.jpg; Attachment 3 - BarnBldgNearT93.jpg

Denton,

The property on which receptor V\_3583 is located is a former rail line, which extends from Concession 4 to Silver Street. This property is a separate parcel from the one immediately to the east where the barn is located (see Attachment 1). These properties may be under common ownership, however remain as two distinct parcels. As such, we have identified two distinct receptors on these parcels (V\_3583 and V\_3582), both fronting onto Concession 4. V\_3583 is located on the former rail line parcel, while V\_3582 is identified on the property to the east where the barn is located.

For the purpose of approval of new sources, including verifying compliance with section 9 of the Environmental Protection Act, the Point of Reception may be located on any of the following existing or zoned for future use premises:

- permanent or seasonal residences;
- hotels/motels;
- nursing/retirement homes;
- rental residences;
- hospitals;
- camp grounds; and
- noise sensitive buildings such as schools and places of worship.

The existing barn does not satisfy any of these criteria.

This barn was reviewed by our field staff when verifying the presence and location of Points of Reception for this project. During their surveys, the following observations were made specific to the barn:

1. The size of the building is larger than a 'typical house' (see Attachment 2 - aerial imagery);
2. The shape of the building resembles that of a barn and not of a dwelling (see Attachment 3 – building photograph);
3. The orientation of the building was perpendicular to Concession 4, while houses typically (but not always) face the road; and
4. The building is also surrounded on all sides by gravel, construction equipment and outside storage containers, which are atypical of a residential use (see Attachment 3 – building photograph).

Based on these observations, we concluded this building could be a barn or a similar structure and does not meet the criteria for a residential dwelling.

Correspondence received from this landowner between September 2012 and February 2013, after issuance of the draft site plan, confirmed that there was no dwelling on the property but they intended to build a dwelling on the property in the future. As part of our due diligence in preparing the draft site plan, we consulted in advance with the Township to confirm whether any building permits had been issued for this property, and others in the Project study area. It was confirmed that no building permit was issued by the Township of West Lincoln for a residence or residential use on the subject property prior to the issuance of the draft site plan in August 2012.



The future potential conversion of a barn is not considered as a residential use or structure, and this barn structure did not contain an existing residential use at the time the draft site plan was issued. As noted by this landowner in the information attached to your email, "there is no dwelling on the property", and while the Township has informed this landowner that the upper floor could be converted to a residential use, it would require "changes ... to comply with the building code".

Vacant Lots are defined as receptors that have been zoned by the local municipality to permit residential or similar noise-sensitive uses. The receptor location, if unknown at the time of the proposal (i.e. no building permit issued for construction), shall be based on a 1 hectare (10,000 m<sup>2</sup>) building envelope within the vacant lot property that would reasonably be expected to contain the use, and that conforms with the municipal zoning by-laws in effect. The specific receptor location for assessment purposes should be assumed to be 4.5 m above grade and:

1. consistent with the typical building pattern in the area, or
2. at the centre of the 1 hectare building envelope.

Since there is a barn on the property (and no existing receiver), vacant lot receptor V\_3582 is located between the barn and the road consistent with the pattern of the area, and in line with the existing dwelling to the east. It is not typical to have receivers behind a barn in the entire study area.

Therefore, while this landowner may not agree with the location of the vacant lot receptor on the subject property, it has been identified and appropriately located in accordance with the requirements of O. Reg. 359/09.

We trust that this supports the Noise Assessment Report and clarifies any questions you may have in this regard. If you have any further questions, please do not hesitate to ask.

Sincerely,

Chris

**Chris Powell, M.A.**

Project Manager, Environmental Planner  
Stantec  
49 Frederick Street Kitchener ON N2H 6M7  
Phone: (519) 585-7416  
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Chris.Powell@stantec.com



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**From:** Miller, Denton (ENE) [mailto:Denton.Miller@ontario.ca]  
**Sent:** Thursday, February 13, 2014 8:28 AM  
**To:** Powell, Chris  
**Cc:** Raetsen, Sarah (ENE); Leggett, Al; Darren Croghan  
**Subject:** RE: NRWC info request -5 Letter dated Jan 22, 2014 Receptor 3583

Hello Chris



Further to my previous E-mail ( info request -5) of Wednesday, February 12, 2014 1:57 PM , please also consider the following set back distance issues noted in the following excerpt from an e-mail I received yesterday from the owner of the lot identified with the vacant lot receptor ID 3583.

Thank You

Regards  
Denton Miller  
416-314-8310

---

**From:** XXXXX  
**Sent:** February 12, 2014 8:28 PM  
**To:** Miller, Denton (ENE)  
**Subject:** Re: FW: Re: Letter dated Jan 22, 2014 XXXXXXXX

Hello Mr. Miller

My property is the one with the number 3583 under the green triangle, immediately west of the property where T 93 is proposed. The western property line (the gray diagonal line) is a former railroad right-of-way. Our property is 32.61 acres, zoned A 2 agricultural, with provision for one private residence. I do not know what the green triangle on the right-of-way represents. Does it refer to our barn? The barn is 66 meters (216 feet) from the front property line and 23 meters (75 feet) from the west side property line.

XXXXXXXXXX

The green square 542, is a privately owned natural gas pumping station that is not currently pumping. XXXXXXXXXX

T93 is less than **70 meters** from the property line and approximately **440 meters** (1445 feet) from the site of our proposed house. The future house location was set in 2005 and all the infrastructure on the property was built to suit our choice of house site. There is a raised filter bed for the septic system for the barn which is fully plumbed and drained. The building has natural gas which supplies the boiler for the in-floor radiant heating and the furnace to heat the upper floor.

Due to the [septic bed location and the gas line location](#), it is impossible to build a house where NRWC says we should build it. There is a driveway, installed in 2005, that is 50 feet from the property line. Do I build the house on the driveway? How do I get to the barn? As you can see, not one clear thinking person has even physically looked at our property.

Putting a rural home 15 meters from a gravel road is absurd for a family that is trying to escape the noise and congestion of Mississauga. Not one home built in the last few years in West Lincoln on a property one acre or more, has been built 15 m (50 ft) from the road.

Between the two driveways, there are berms installed that slope away from the roadway to allow for drainage for the fruit and nut trees we intend to plant there. The slope drains into a swale that empties into the watercourse that runs along the eastern side of the property.

If you view aerial photos of the property, you can clearly see how we have prepared the property to accommodate a house that will **be at least 320 feet from the road**.

I have provided all this information to show that the building of the house was to be the culmination of a well thought out plan that predates the Green Energy Act., the Niagara Region Wind Corporation and this industrial Wind Turbine Proposal.

Our plan allowed for a sustainable and enhanced use of this property to keep employing the land for agricultural purposes while also having an energy efficient residence.

If there are any further questions or if you need more information, do not hesitate to contact me.

With Thanks

XXXXXXXXXX

*Regards*  
*Denton Miller*  
*416-314-8310*

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]  
**Sent:** February 12, 2014 2:51 PM  
**To:** Miller, Denton (ENE)  
**Cc:** Raetsen, Sarah (ENE); Leggett, Al; Darren Croghan  
**Subject:** RE: NRWC info request -5 Letter dated Jan 22, 2014 Receptor 3583

Denton,

We are familiar with these two properties and consulted with this landowner during the REA process. We will prepare a response to this comment and send it to you shortly.

Chris

---

**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Wednesday, February 12, 2014 1:57 PM  
**To:** Powell, Chris  
**Cc:** Raetsen, Sarah (ENE)  
**Subject:** NRWC info request -5 Letter dated Jan 22, 2014 Receptor 3583

Hello Chris

We have been approached by the owner of the lot that contains vacant lot receptor 3583 ( re: your Sept 30 , 2013 noise report; see diagram below). He has made the following assertion:

There is currently no dwelling on the property , although there is a new barn. The Township of West Lincoln now says can have the upper floor used as a dwelling, provided that changes are made to comply with the building code. The center of the existing building, erected in 2007 is 513 meters from the proposed turbine {T 93}. This building was built by us long before there was an NRWC.

All of the infrastructure on this property was placed there by us after taking possession on January 15, 2004.

Please refer to the attached document for a detailed description of all the noise issues identified by the owner of the lot and provide EAB with a response.

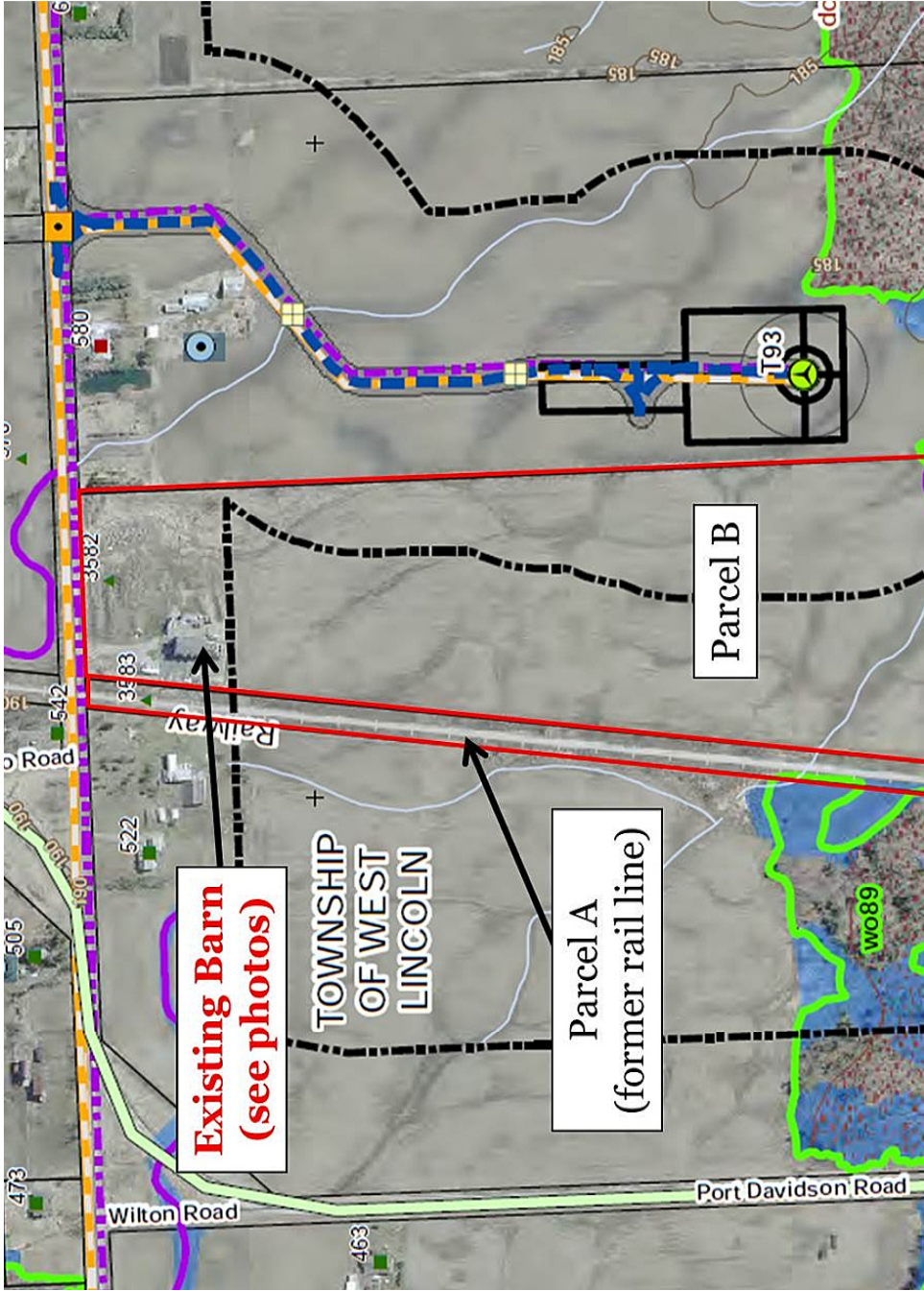
Your response should also address the definition of dwelling as defined Ontario Regulation 359/09 and how it applies to the existing barn on the subject property.

Thank You

DM



**Denton Miller** | Senior Review Engineer | Team 5 | Environmental Approvals Branch | Ministry of the Environment  
2 St. Clair Ave W. 12a Floor Toronto, Ontario, M4V 1L5 | Phone: 416-314-8310 | [Denton.Miller@ontario.ca](mailto:Denton.Miller@ontario.ca)







Google earth

© 2012 Google

Image © 2013 GeoEye





## Powell, Chris

---

**From:** Powell, Chris  
**Sent:** Thursday, April 17, 2014 4:43 PM  
**To:** Denton.Miller@ontario.ca; Raetsen, Sarah (ENE)  
**Cc:** Darren Croghan; Merv Croghan; Shiloh Berriman (sberriman@nrwc.ca); Leggett, Al (Al.Leggett@stantec.com); Ganesh, Kana  
**Subject:** FW: Building Permit in West Lincoln - (RE: NRWC info request -5 Letter dated Jan 22, 2014 Receptor 3583)  
**Attachments:** let\_FOI\_for\_6374\_Conc\_4\_West\_Lincoln\_2014\_03\_20.pdf; 2 - Twp - FOI Update\_04apr14.pdf; 3 - Janzen Google Streetview - June 2012.pdf; 4 - MOE - 5a - Receptor 3583\_12feb14.pdf  
**Importance:** High

Denton / Barbara,

Further to our call on April 9, 2014, the purpose of this email is to follow up on the status of our Freedom of Information Act (FOI) and to provide additional information with respect to the setbacks and receptor location identified for the subject property. Previous responses to this string of emails were provided to the MOE on February 13, March 20 and March 27, 2014 and should be read in conjunction with the following information.

### Freedom of Information Act Request

A copy of the Freedom of Information Act (FOI) request sent to the Township on March 25, 2014 is attached. Also attached is the response we received from the Township of West Lincoln with respect to our FOI request for the building permit for 6374 Concession Road 4, West Lincoln (i.e. property west of T93). This response indicates that they may not be able to respond to our request within the timeframe allotted by the MOE, and beyond that will be subject to potential further delays awaiting confirmation from the landowner who will be provided the opportunity to object to the release of the requested information in accordance with the Freedom of Information Act. To date, we have not received the requested information from the Township in this regard.

As soon as a copy of the building permit information is available, we will forward it to your attention. However, based on the FOI process currently underway with the Township, it may not be possible to provide the MOE with a copy of the building permit by the requested deadline of April 17, 2014.

### Existing Barn Structure

Stantec, on behalf of NRWC, has undertaken to clarify that the existing structure on the subject property is not a dwelling, and was not a dwelling at the time of crystallization (August 2012). We have incorporated observations of current site conditions into the identification of noise receptors, have corresponded with the landowner during the REA consultation process, and have discussed this specific property with Township staff. We have also provided supporting information to the MOE during the review for completeness and further during the technical review process, all of which suggests that the existing structure is not a dwelling, including comments received from the landowner (per your email dated February 12, 2014) confirming that "there is currently no dwelling on the property, although there is a new barn" (see attached).

While we currently do not have a copy of the building permit issued for the construction of the barn, we have requested this information from the Township and will continue to follow up with them to obtain this information. We have discussed this issue on several occasions with Brian Treble from the Township of West Lincoln who has verbally confirmed that the existing structure is not permitted for a residential use and would be subject to further building permits and approvals in order to convert this structure to permit a residential use.

No evidence has been presented by the landowner confirming that the existing barn structure is in fact a dwelling, and by identifying a desire to construct a dwelling elsewhere on the property suggests his intent is not to use the existing structure as a dwelling. While their long term plans may be to establish a residential structure on the subject property, either utilizing the existing structure or constructing a new dwelling on the property, to our knowledge no building permits have been issued permitting a residential structure on the subject property, or permitting use of the existing structure as a dwelling. This will be confirmed through the Township of West Lincoln FOI request.

### **Location of Receptor 3583**

*For the purposes of defining the location of a noise receptor on vacant land, the applicant must specify the position on the lot where a building would reasonably be expected to be located, having regard to the existing zoning by-laws and the typical building pattern of lots in the area (MOE, 2012).* Rationale for the location of Receptor 3583 was discussed in our email dated February 13, 2014.

Further to that email, questions have been raised as to the existence of a second driveway entrance to the property and its influence on determining the location of a vacant lot receptor on the subject property. We acknowledge that a secondary entrance to the property existed at the time the draft site plan was issued, as illustrated in the attached photograph (dated June 2012), however there is no evidence that a gravel driveway existed prior to the issuance of the draft site plan for this Project (August 2012). The location of Receptor 3583 is in proximity to this secondary entrance, which could accommodate a proposed future dwelling subject to the issuance of Building Permit.

While there is evidence of grading on the subject property, as visible in the available aerial photography, there is no obvious building location evident based on the information available. While the landowner may have future plans for a house on the property to be located 320 feet (97.5m) from the front of the property, there is no rationale for this location over others nor approved building permits (as confirmed by the landowner) that would support this location.

Furthermore, we suggest that the existence of Turbine T93 would not preclude the landowner from building a house at this location at some point in the future. While minimum setbacks apply for turbines being proposed in proximity to existing and/or approved dwellings, similar setbacks do not apply for proposed dwellings in proximity to existing and/or approved turbine locations. As such, the location of T93 would not preclude construction of a house on the subject property.

The test of an applicant for determining what is "reasonable" in terms of the location of a vacant lot receptor is not based on the future plans of a landowner but rather documentation approved by a municipality to justify the proposed location, such as an approved Building Permit, Site Plan or Planning Act approval. Taking into account all existing property entrances, driveways or farm access lanes when siting vacant lot receptors would be unreasonable.

In the absence of a building permit confirming the location of an approved dwelling prior to issuance of the draft site plan, the location of Receptor 3583 reflects a location where a building would reasonably be expected to be located, having regard to the existing zoning by-laws and the typical building pattern of lots in the area.

### **Summary**

We trust that this update will address your concerns in regards to Receptor 3583 pending resolution of the FOI request currently in front of the Township of West Lincoln.

Please do not hesitate to give me a call on my cell phone if you have any questions or would like to discuss this further.

Sincerely,

Chris

**Chris Powell, M.A.**

Project Manager, Environmental Planner  
Stantec  
49 Frederick Street Kitchener ON N2H 6M7  
Phone: (519) 585-7416  
Cell: (519) 501-2368  
Fax: (519) 579-6733  
Chris.Powell@stantec.com



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**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Thursday, April 03, 2014 3:12 PM  
**To:** Slattery, Barbara (ENE); Kossowski, Julia  
**Cc:** Powell, Chris; Raetsen, Sarah (ENE)  
**Subject:** RE: Building Permit in West Lincoln,

Hi Julia

Could you please provide this information by April 17, 2014.

Thank you

*Regards*  
*Denton Miller*  
*416-314-8310*

---

**From:** Slattery, Barbara (ENE)  
**Sent:** April 3, 2014 3:04 PM  
**To:** Kossowski, Julia ([Julia.Kossowski@stantec.com](mailto:Julia.Kossowski@stantec.com))  
**Cc:** [Chris.Powell@stantec.com](mailto:Chris.Powell@stantec.com); Miller, Denton (ENE)  
**Subject:** Building Permit in West Lincoln,  
**Importance:** High

Julia, I was wondering whether you have obtained a copy of the building and septic system permits for the property in question in West Lincoln to enable the completion of our review of the circumstances for Receptor 3583?



49 Frederick St.  
Kitchener, ON  
N2H 6M7

March 24, 2014  
File: 160950269

**Attention: Ms. Carolyn Langley, Clerk**  
Township of West Lincoln, Clerk's Department  
318 Canborough St, PO Box 400  
Smithville, ON  
LOR 2A0

Dear Ms. Langley,

**Reference: Freedom of Information Request – Approvals re: 6374 Concession Road 4**

On behalf of the Niagara Region Wind Corporation, I would like to submit this request for access to records under the Freedom of Information and Protection of Privacy Act. Specifically, I would like to request a copy of any land use approvals, building permits, building permit applications and supporting documentation relating to existing and/or proposed structures or land uses on the property located at 6374 Concession Road 4, in the Township of West Lincoln.

More specifically, we are requesting any and all building permits, building permit applications and supporting documentation for the following:

- Existing barn, believed to have been issued in 2006 (or after 2004). Specifically, any documentation that confirms the intended and/or approved use of the existing structure;
- Renewal of the 2006 building permit, believed to have been issued in 2007 (or after 2004);
- Any existing / proposed septic beds, including size, date of approval, construction date, etc.;
- Any entrance driveway, including size, date of approval, construction date, etc.; and
- Any other structures or land uses relating to the subject property since 2004.

A figure illustrating the location of the subject property is attached.

Please find enclosed a personal cheque for \$5 for the cost of this request. The documentation would be preferred to be received via email, if possible, or alternatively by regular mail. Please contact me at the number below if you require further information.

Regards,

**Stantec Consulting Ltd.**

A handwritten signature in black ink, appearing to be "JK" followed by a stylized flourish.

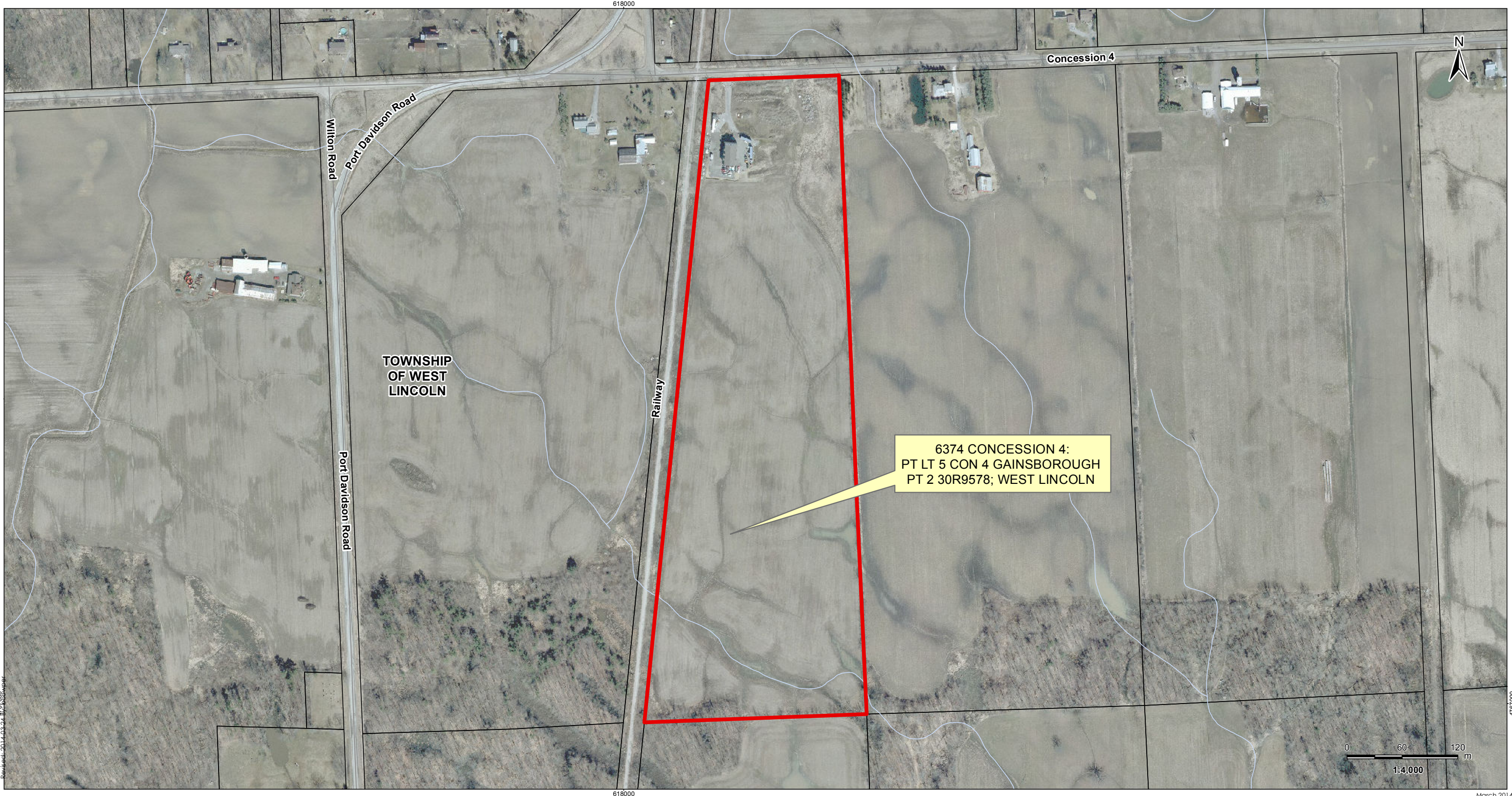
Julia Kossowski, P.Eng.  
Project Manager - Power  
Phone: 519 569 4338  
Julia.kossowski@stantec.com

c. Darren Croghan, NRWC, Chris Powell, Stantec

jk m:\01609\active\160950269\planning\correspondence\municipalities\west lincoln\let\_foi\_for\_6374\_conc\_4\_west\_lincoln\_2014\_03\_20.docx



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Revised: 2014.03.04 11:00:00 AM

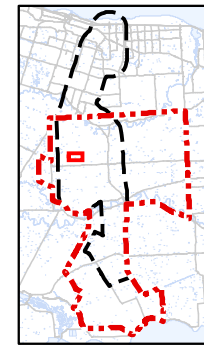


March 2014  
160950269



- Legend**
- Property Boundary
  - Existing Features**
  - Road
  - Abandoned Railway
  - Watercourse (MNR)
  - Property Boundary

- Notes**
1. Coordinate System: NAD 1983 UTM Zone 17N
  2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2013.
  3. Orthomagey © First Base Solutions, 2010.



Client/Project  
Niagara Region Wind Corporation

**1 PRELIMINARY**

**6374 Concession 4**



## Powell, Chris

---

**From:** Kossowski, Julia  
**Sent:** Friday, April 04, 2014 5:31 PM  
**To:** Powell, Chris; Leggett, Al  
**Subject:** Fw: FOI Request for building permit information

Chris. See email below. Please forward to Darren and MOE if you feel it necessary.

Julia

---

**From:** Carolyn Langley [<mailto:clangley@westlincoln.ca>]  
**Sent:** Friday, April 04, 2014 03:16 PM Mountain Standard Time  
**To:** Kossowski, Julia  
**Cc:** Brian Treble <[btreble@westlincoln.ca](mailto:btreble@westlincoln.ca)>  
**Subject:** RE: FOI Request for building permit information

Dear Julia:

Thank you for your email.

I have been gathering information in order to respond to your FOI request. I am sorry but I cannot confirm if I will be able to meet your April 15<sup>th</sup> deadline as I am still reviewing the information. Also, I must advise you that if my decision is to release the documents to you that you have requested, I will have to notify the owner of the property who will have the opportunity to appeal my decision which may further delay the provision of documentation to you.

With respect to releasing the documents to the MOE, please be advised that, in this instance, the MOE would be required to follow the same FOI request procedure that you are following.

**Carolyn Langley, Clerk**

Township of West Lincoln  
318 Canborough Street  
P.O. Box 400  
Smithville, Ontario.  
L0R 2A0

Tel: (905) 957-3346 ext. 6720

Fax: (905) 957-3219

\*\*\*\*\*

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**From:** Kossowski, Julia [<mailto:Julia.Kossowski@stantec.com>]  
**Sent:** April-04-14 9:29 AM  
**To:** Carolyn Langley; Brian Treble  
**Cc:** Powell, Chris  
**Subject:** FOI Request for building permit information

Good Morning Brian and Carolyn,

I am just following up on my FOI request submitted last week for 6374 Concession Road 4. This information has been requested so that we can respond to questions from the Ministry of Environment. The MOE has now

placed a deadline for us to submit the information by April 15<sup>th</sup>. Would it be possible for you to provide us with the information before this date? Alternatively, did you have any luck acquiring approval from your lawyers to provide the information directly to the MOE?

Regards,  
Julia

**Julia Kossowski, P. Eng.**  
Project Manager - Power  
Stantec  
49 Frederick Street  
Kitchener ON N2H 6M7  
Ph: (519) 569-4338  
Fx: (519) 579-4239  
Cell: (226) 989-5259  
[julia.kossowski@stantec.com](mailto:julia.kossowski@stantec.com)

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Secondary Entrance at 6374 Concession Road 4, West Lincoln (Source: Google Streetview, Photo Taken June 2012)

## Powell, Chris

---

**From:** Miller, Denton (ENE) <Denton.Miller@ontario.ca>  
**Sent:** Wednesday, February 12, 2014 1:57 PM  
**To:** Powell, Chris  
**Cc:** Raetsen, Sarah (ENE)  
**Subject:** NRWC info request -5 Letter dated Jan 22, 2014 Receptor 3583  
**Attachments:** EBR Comment re por 3583.docx

Hello Chris

We have been approached by the owner of the lot that contains vacant lot receptor 3583 ( re: your Sept 30 , 2013 noise report; see diagram below). He has made the following assertion:

There is currently no dwelling on the property , although there is a new barn. The Township of West Lincoln now says can have the upper floor used as a dwelling, provided that changes are made to comply with the building code. The center of the existing building, erected in 2007 is 513 meters from the proposed turbine {T 93}. This building was built by us long before there was an NRWC .

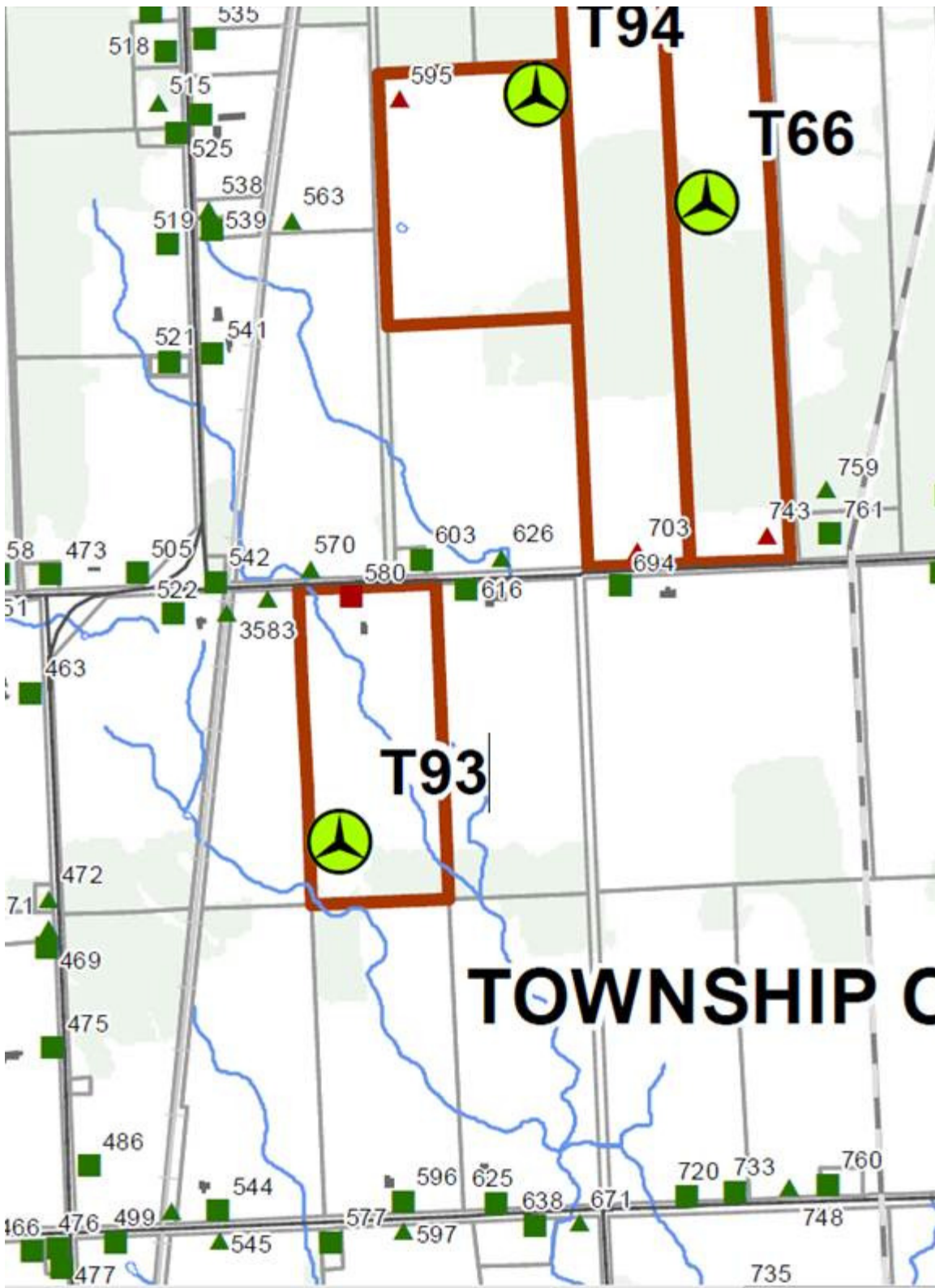
All of the infrastructure on this property was placed there by us after taking possession on January 15, 2004.

Please refer to the attached document for a detailed description of all the noise issues identified by the owner of the lot and provide EAB with a response.

Your response should also address the definition of dwelling as defined Ontario Regulation 359/09 and how it applies to the existing barn on the subject property.

Thank You

DM



## Powell, Chris

---

**From:** Powell, Chris  
**Sent:** Thursday, March 06, 2014 12:08 PM  
**To:** Denton.Miller@ontario.ca  
**Cc:** Raetsen, Sarah (ENE); Leggett, Al; Ganesh, Kana; Darren Croghan  
**Subject:** RE: NRWC Info Request 6 MOE ref file # 1175-972NB9  
**Attachments:** Attachments 1 to 4.pdf; Photo 1 - 5648 Regional Road 65.PNG; Photo 2 - V794 Property.jpg

Denton,

In response to your email below, our GIS and noise leads have reviewed the receptor and turbine information contained in the REA reports to generate a response to the EBR suggestions about the accuracy of individual noise receptors. The following information is provided in regards to receptors V\_735, V\_794 and V\_1762:

1. **V\_735** – Property: 5648 Regional Road 65 (Silver Street in MNR data and Bismark Road in Niagara Explorer), West Lincoln (see Attachment 1).

During the initial development of the noise model, and identification of receptors (POR's), our field crews reviewed each of the potential POR's to confirm and verify the appropriate classification of existing structures. Based on their site investigations, our field crew identified this particular property as "potentially commercial – similar to a nursery" due to the presence of similar structures within the property. The location of the receptor is correct, however, the designation could be revised. Regardless, this residence is located 920 m from the closest turbine (T54) and the noise level at this receptor is 36.9 dBA, which is below the 40.0 dBA threshold. A photograph of the subject property is attached for reference (see Photo 1).

Action: The designation of this existing structure will be revised from "vacant" to "existing" in order to reflect the existing dwelling.

2. **V\_794** – Property: No specific mailing address exists for this property, which is located on Regional Road 65 (Silver Street in MNR data and Bismark Road in Niagara Explorer), West Lincoln – east of V\_735 discussed above (see Attachment 1).

Based on our review of the current aerial photography, field verification during the initial development of the noise model to identify POR's, and review of building permits prior to issuance of the draft site plan, this property is a vacant property. Based on our information, there is no existing dwelling on this property (see Photo 2) and no dwelling was approved prior to the issuance of the draft site plan. As such, a vacant lot receptor (V\_794) was appropriately located on the subject property within the noise model. The existing dwelling to the east of receptor V\_794 is located on a separate parcel of land and represented by receptor O\_3887. Both receptors comply with the minimum distance from a turbine and the noise threshold.

Action: Additional information regarding the alleged location of an existing dwelling on the subject property is requested, if available. Otherwise, our information confirms that there is no existing dwelling on the subject property and no approved dwelling prior to the issuance of the draft site plan.

3. **V\_1762** – Property: No specific mailing address exists for this property, which is located on Concession Road 4, West Lincoln (see Attachment 2).

The subject property is located at the intersection of 2 unopened road allowances - Concession 4 (running east-west along the south side of the property) and Dengo Road (running north-south along



the east side of the property. The property is also entirely comprised of significant woodland and wetland with no open areas. There is no existing dwelling on the subject property, however, a vacant lot receptor was identified for the purposes of the noise model.

It is possible that questions arising regarding the location of V\_1762 may be in regards to its location relative to a potential dwelling located on the property to the north (2090 Dengo Road, West Lincoln). This property is represented in the noise model by receptor O\_1758 (2090 Dengo Road, West Lincoln coordinate 623376.46; 623376.46), which is located at the north of the property adjacent to the open portion of Dengo Rd.

Through air photo interpretation, a second structure is also located at the south of this property (i.e. closer to V\_1762 but on the adjacent parcel) (see Attachment 2). This second structure could be a dwelling, however verification of this structure was not possible through the physical verification process due to property access and isolation of the property. It appears to be accessible only from a private road that extends from the end of the opened section of Dengo Rd. at the north of the property and is not visible from a municipal right of way.

Nonetheless, this structure was recognized during the development of the noise model and project layout. While not confirmed as a receptor in the noise model, our noise team ensured that it remained outside of the appropriate setbacks and below the noise threshold. As a result, this structure is located 780 m from the closest turbine (T27) and the noise level at this receptor is 38.7 dBA, which is below the 40.0 dBA threshold.

Action: We defer to the MOE as to how to address this potential second noise receptor on the property (i.e. shift location O\_1958, or add an additional receptor to the model). In terms of V\_1762, our information confirms that there is no existing dwelling on that property or no approved dwelling prior to the issuance of the draft site plan.

The following information is provided in regards to the closest turbine to receptors O\_148, O\_582 and O\_674:

4. **O\_148** – Property 7057 Concession 4 Road, West Lincoln (see Attachment 3).

This receptor is correctly positioned on an existing dwelling that fronts onto Concession 4. As illustrated on Attachment 3, Turbine T81 is correctly identified as the closest turbine to receptor O\_148 (distance = approx. 1,180 m). Despite the EBR comments below, Turbine T08 is not even the second closest turbine to this receptor (Turbines T52 and T53 are the next nearest). Turbine T08 is located approximately 2806 m from receptor O\_148.

5. **O\_582** – Property: 6367 Elcho Road, West Lincoln (see Attachment 4).  
**O\_674** – Property: 6227 Elcho Road, West Lincoln (see Attachment 4).

Both of these receptors are correctly positioned on existing dwellings fronting onto Elcho Rd. As illustrated on Attachment 4, the closest turbine to these receptors is Turbine T07, located 612 m and 558 m away, respectively.

These responses are based on the information collected during the preparation of the noise model and project layout, including existing mapping, air photo interpretation, site investigations and consultation with the Township of West Lincoln to identify newly approved / potentially unconstructed dwellings or other possible noise receptors.

We trust that this additional information addresses the comments provided in the EBR comment below.

If you have any further questions, please do not hesitate to let us know.

Sincerely,

Chris

**Chris Powell, M.A.**

Project Manager, Environmental Planner  
Stantec  
49 Frederick Street Kitchener ON N2H 6M7  
Phone: (519) 585-7416  
Cell: (519) 501-2368  
Fax: (519) 579-6733  
Chris.Powell@stantec.com



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**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Friday, February 21, 2014 2:49 PM  
**To:** Powell, Chris  
**Cc:** Raetsen, Sarah (ENE)  
**Subject:** NRWC Info Request 6 MOE ref file # 1175-972NB9

Hello Chris

Comments via the EBR allege that the following three lots were incorrectly identified as vacant lots (existing dwellings are alleged to be present) .

1. 735,
2. 794 and
3. 1762

The correspondence further states that following three receptors are not correctly referenced from a distance perspective to the closest proposed turbine.

1. 582,
2. 674 and
3. 148

Please review the above issues and respond to this E-mail by **March 7, 2014**.

The EBR comment is copied below for your reference (yellow highlight).

Thank you

*Regards*  
*Denton Miller*  
416-314-8310

---

**From:** XXXXXXXX

**Sent:** February 17, 2014 6:03 PM

**To:** XXXXXX

**Cc:** XXXXXX

**Subject:** Fw: Mistakes

Ladies

It is difficult to respect and support the role that the MOE is taking in the supervisory role of the two wind projects in West Lincoln. I refer of course to the HAF/IPC project and the pending NRWC project. (012-0613). Several years ago MOE guidelines which we have respected were written to guide the big business wind enterprises that would invade our province. The only problem which is evidencing itself now is that those guidelines can have numerous exceptions in favour of the wind companies....they can BE changed, omitted, redirected or ignored. ALL those guidelines were supposedly developed to protect rural Ontario. Rural residents can no longer demand respect from the bullies you call Wind Companies.

There have been five infractions during the HAF/IPC development. I have already listed these for you in a previous e-mail dated February 9th, 2014. The most recent mistake....the positioning of 3 out of 5 turbines too close to non host property lines is the ultimate mistake. Unfortunately.... the wind developer is not prepared to correct his mistakes. The MOE is prepared to allow the company to correct their errors retroactively. The non host property owners may have to take the company to further litigation in a court of law.

Also the MOE did not complete due diligence in the Burnaby Skydiving facility in Wainfleet when IWTs were approved so close to a functioning skydiving business. This tells me that the provincial government MOE agency just slides along and shows neglect instead of working in a supervisory capacity.

Does the MOE not appreciate that the lives of rural Ontarians are in the hands of this supervisory division??? The outline of rules and regulations devised by the MOE with regard to monitoring BIG WIND COMPANIES appears to have evolved into a complete waste of time. Like all policing efforts.... rules mean nothing if they are not enforced. You break the rules. You pay the cost. In the case of HAF/IPC the non compliant wind turbines MUST come down or be moved!!! The decision is simple. The solution is simple.

The residents of West Lincoln living in the area for the proposed NRWC project have made a commitment and mission (beyond all others) to find all the mistakes within the project. I am reluctant to help the MOE complete it's job. I would assume that the NRWC proposal is checked by the MOE for inaccuracies. There are hundreds of mistakes. Most recently we have found so many properties marked as Vacant in the Stantec/NRWC paperwork. In actuality these are occupied Non Host properties. This raises many additional questions about mistakes. How many more properties marked Vacant are really occupied properties??? They will not have been measured for accurate distances from the proposed wind turbines. (For example ....Receptors 1750, 735, 794 and 1762) Other indicated non host properties have incorrect distances from turbines. (For



example...Receptors 582 and 674 in relation to each other and T07.....and Receptor 148 is actually closest to T08 but Stantec says T81) And so on it goes.....

The supervising, monitoring and correcting tasks involved in the NRWC project are not the responsibilities of the residents of West Lincoln. These are the responsibilities of the MOE. If the NRWC wind turbines are erected without caution....the MOE will be facing numerous challenges to correct the whiffle and waffle and mess which should have been corrected long before the project was approved. I think that the MOE will find that when true coordinates are found and accurate locations are indicated, the NRWC project of 77-80 3MW IWTs may not fit into our community. And all future corrections and manoeuvring of the MOE will never make it work.

It is the task of the MOE to check everything the residents of West Lincoln have questioned ...the Natural Heritage details, distances, noise/decibel inaccuracies, the safety of our children, turbine locations, receptor inaccuracies. It is the task of the MOE to respond with due diligence.

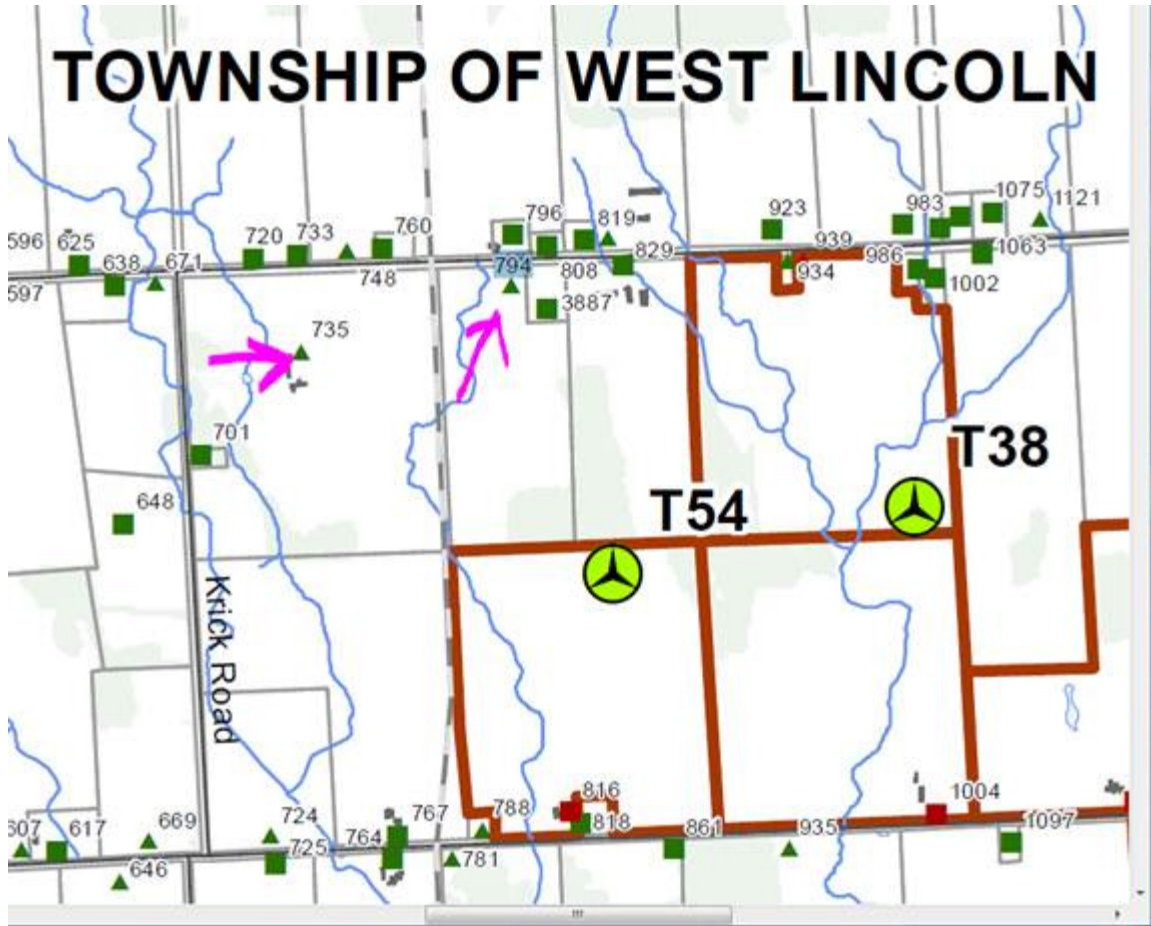
The alternative is to cancel this project 012-0613.

Thank you,  
XXXXXX

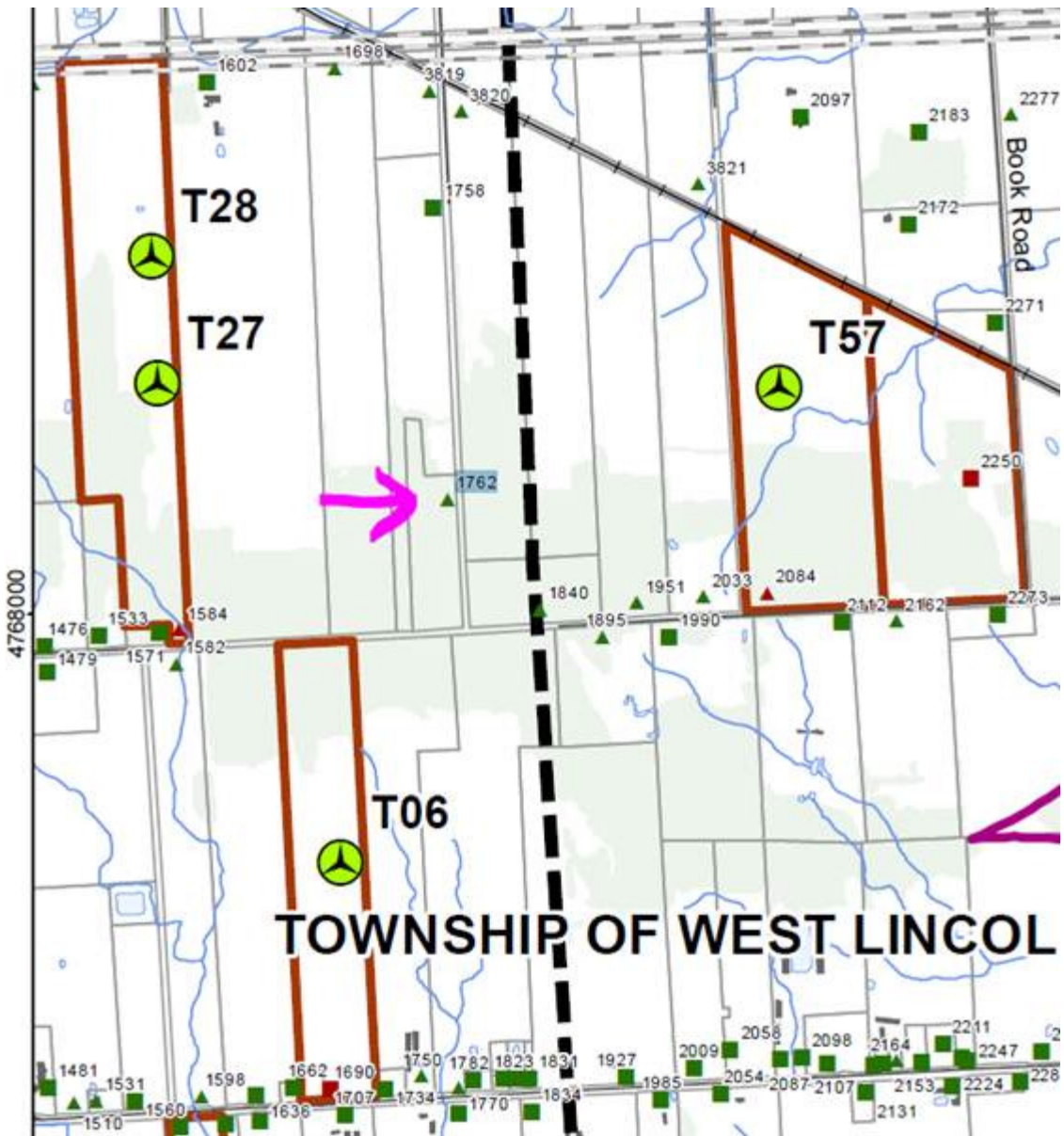
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Vacant Lot 735 & 794

# TOWNSHIP OF WEST LINCOLN

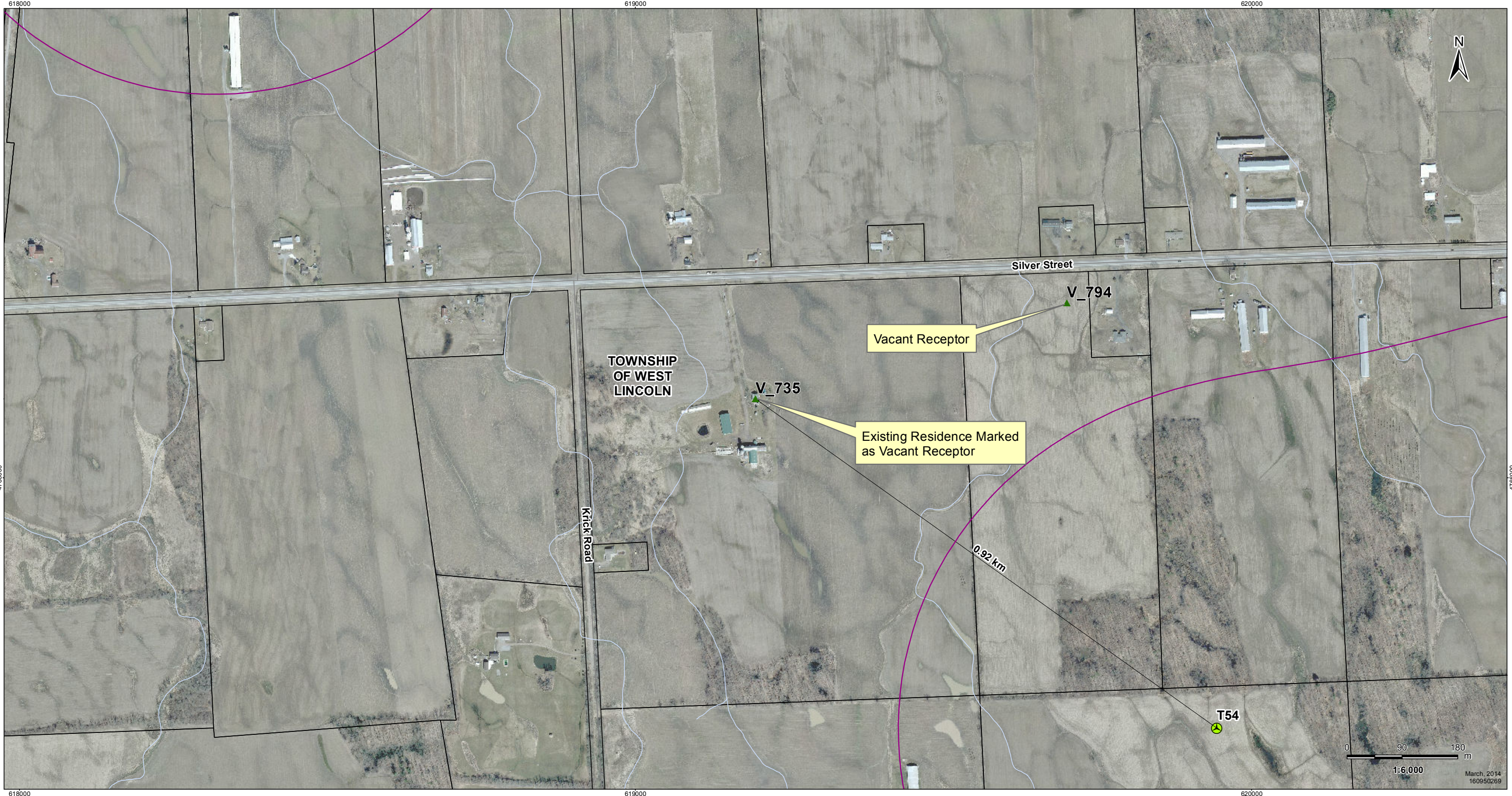


Vacant Lot 1762





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 Revised: 2014-03-05 By: bcowper

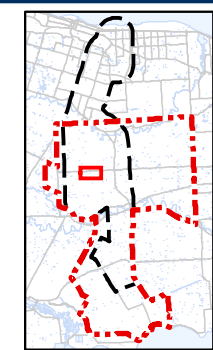


**Legend**

- |                                    |                                    |
|------------------------------------|------------------------------------|
| Project Study Area                 | Sound Level Contours 40dBA         |
| <b>Proposed Project Components</b> | <b>Non-participating Receptors</b> |
| Proposed Turbine Location          | Occupied                           |
|                                    | Vacant                             |
| <b>Existing Features</b>           |                                    |
| Road                               |                                    |
| Abandoned Railway                  |                                    |
| Watercourse (MNR)                  |                                    |
| Property Boundary                  |                                    |

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Orthoimagery source: First Base Solutions, Date Spring 2010.



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 Niagara Region Wind Corporation

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Figure No.  
 1

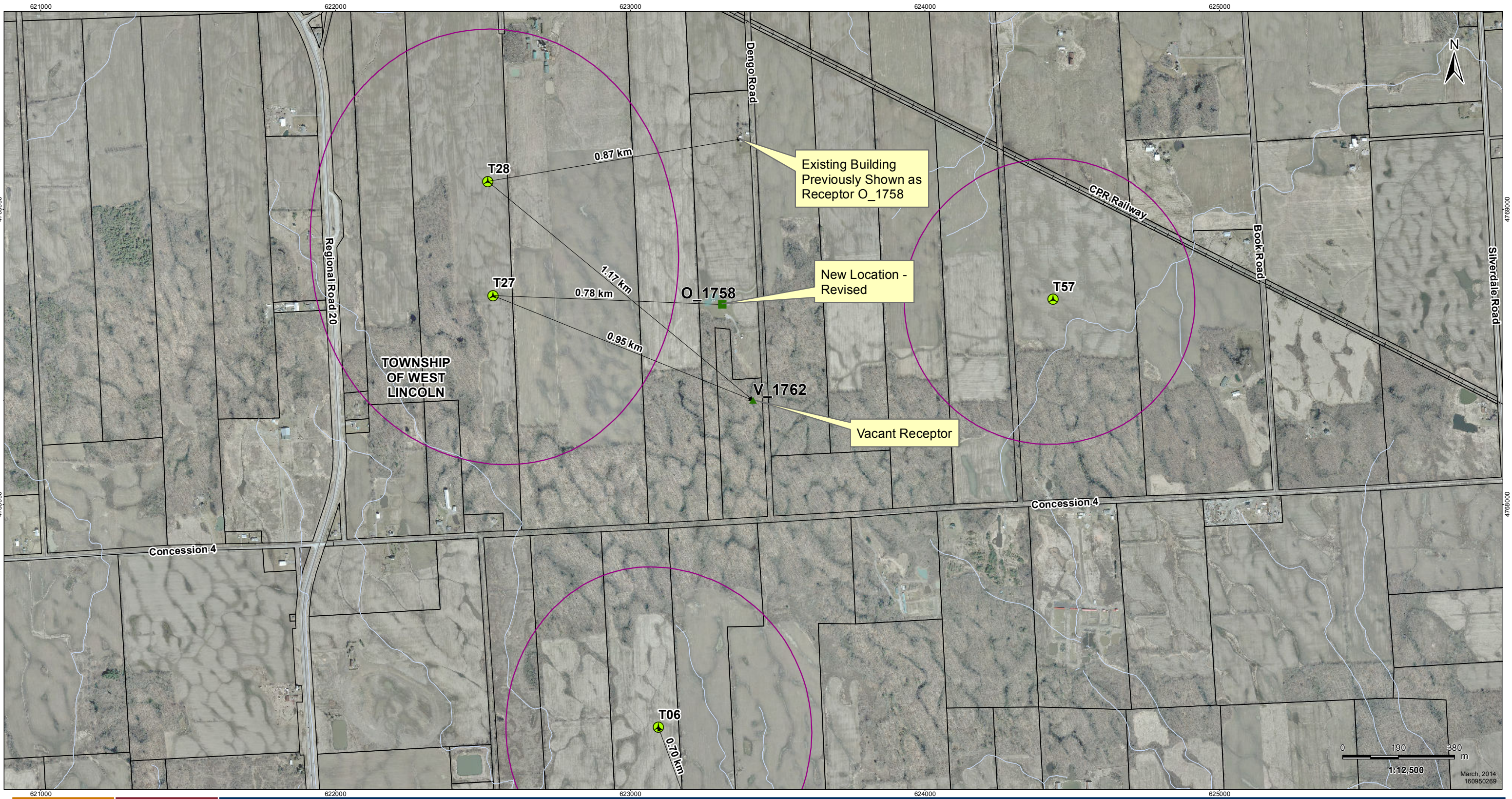
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Title  
**Attachment 1**



March, 2014  
 160950269





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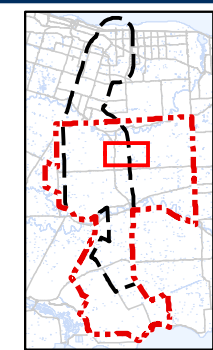


**Legend**

- |                                    |                                    |
|------------------------------------|------------------------------------|
| Project Study Area                 | Sound Level Contours 40dBA         |
| <b>Proposed Project Components</b> | <b>Non-participating Receptors</b> |
| Proposed Turbine Location          | Occupied                           |
|                                    | Vacant                             |
| <b>Existing Features</b>           |                                    |
| Road                               |                                    |
| Active Railway                     |                                    |
| Watercourse (MNR)                  |                                    |
| Property Boundary                  |                                    |

**Notes**

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- Orthimagery source: First Base Solutions, Date Spring 2010.



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Niagara Region Wind Corporation

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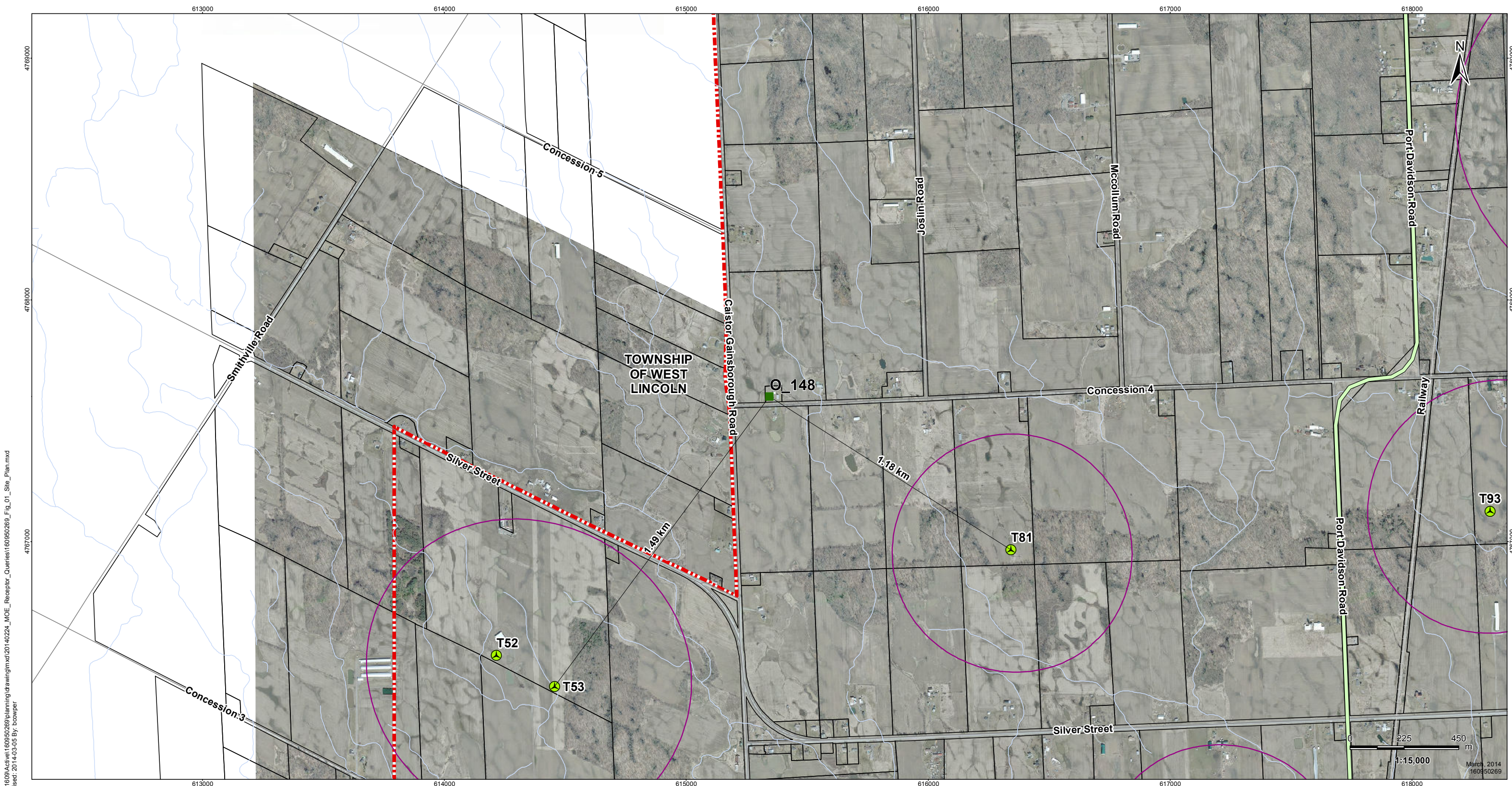
Figure No.  
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Title  
**Attachment 2**

March, 2014  
160950269





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 Revised: 2014-03-05 By: bcowper

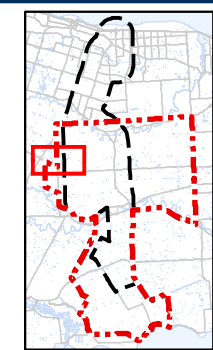


**Legend**

- |                                    |                                    |
|------------------------------------|------------------------------------|
| Project Study Area                 | Sound Level Contours 40dBA         |
| <b>Proposed Project Components</b> | <b>Non-participating Receptors</b> |
| Proposed Turbine Location          | Occupied                           |
| Preferred Transmission Line Route  | Vacant                             |
| <b>Existing Features</b>           |                                    |
| Road                               |                                    |
| Abandoned Railway                  |                                    |
| Watercourse (MNR)                  |                                    |
| Property Boundary                  |                                    |

**Notes**

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- Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
- Orthimagery source: First Base Solutions, Date Spring 2010.



Client/Project  
Niagara Region Wind Corporation

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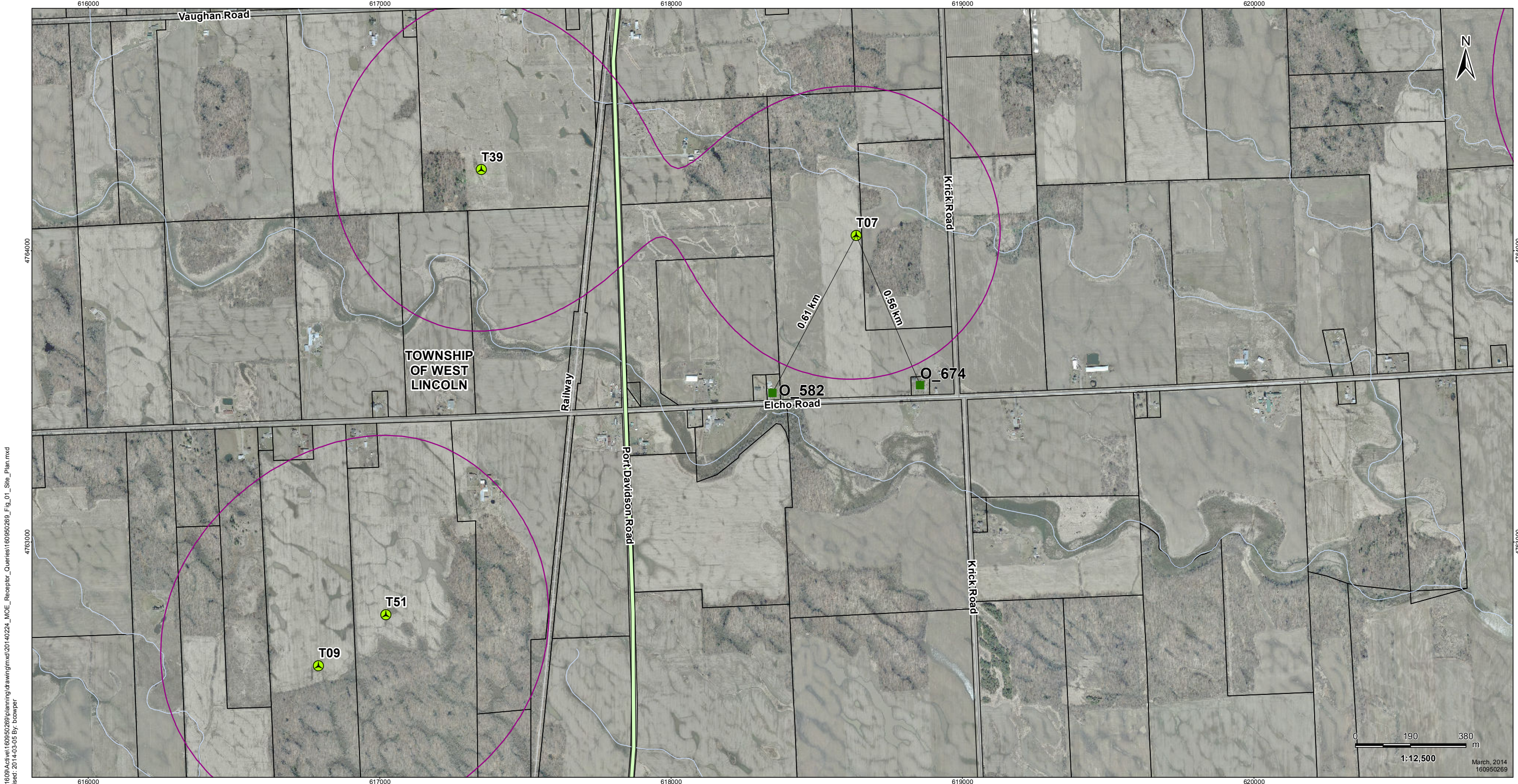
Figure No.  
3

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Title  
**Attachment 3**

March, 2014  
160950269





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Revised: 2014-03-05 By: bcowper

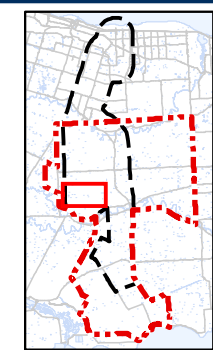


**Legend**

- |                                    |                                    |
|------------------------------------|------------------------------------|
| Project Study Area                 | Sound Level Contours 40dBA         |
| <b>Proposed Project Components</b> | <b>Non-participating Receptors</b> |
| Proposed Turbine Location          | Occupied                           |
| Preferred Transmission Line Route  | Vacant                             |
| <b>Existing Features</b>           |                                    |
| Road                               |                                    |
| Abandoned Railway                  |                                    |
| Watercourse (MNR)                  |                                    |
| Property Boundary                  |                                    |

**Notes**

- Coordinate System: NAD 1983 UTM Zone 17N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
- Orthimagery source: First Base Solutions, Date Spring 2010.



Client/Project  
Niagara Region Wind Corporation

---

Figure No.  
4

---

Title  
**Attachment 4**

March, 2014  
160950269





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© 2014 Google. Image Date: August 2012

Report a problem



## Powell, Chris

---

**From:** Powell, Chris  
**Sent:** Thursday, March 13, 2014 6:04 PM  
**To:** Denton.Miller@ontario.ca  
**Cc:** Raetsen, Sarah (ENE); Darren Croghan; Leggett, Al (Al.Leggett@stantec.com); Ganesh, Kana  
**Subject:** Re: NRWC Info request 7  
**Attachments:** Receptors 1481 to 1598 - Fig 2-27.jpg; Photo 1560.png; Photo\_1510\_1531.png

Denton,

The following noise receptors are identified between Receptors 1481 and 1598 in the noise model and on the site plan figures (see attached screen capture from Figure 2.27 of the PDR):

| Receptor | Noise    | Setback to Turbine | Closest Turbine | Description (see attached photos)   |
|----------|----------|--------------------|-----------------|---|
| V_1510   | 37.1 dBA | 1039 m             | T01             | "Photo 1510_1531" – large house like building (similar to a hotel or Bed and Breakfast) at left of photo; |
| V_1531   | 37.4 dBA | 998 m              | T01             | "Photo 1510_1531" – existing building with garages  |
| O_1560   | 37.9 dBA | 927 m              | T01             | "Photo 1560" – existing dwelling  |

All of these receivers satisfy the noise threshold of 40.0 dBA and are setback a minimum of 550m from the nearest turbine in accordance with O. Reg. 359/09.

Upon further reviewing our information for this area, we can confirm that all parcels between Receptors 1481 and 1598 are represented by a noise receptor and that there are no "occupied homes" that have been missed in the noise model.

We trust this addresses the comment from the public with respect the apparent missing occupied home in this area.

Sincerely,

Chris

---

**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Thursday, March 13, 2014 1:50 PM  
**To:** Powell, Chris  
**Cc:** Raetsen, Sarah (ENE)  
**Subject:** NRWC Info request 7

Hello Chris

Please review the e-mail below and :

Comment on the statement;

Between receptors 1481 and 1598, there is an occupied home that is not shown on their diagrams at all nor is it included in the NRWC reports as a receptor.

Please provide your comments by March 28, 2014.

Thank you

*Regards*  
*Denton Miller*  
*416-314-8310*

---

From:  
Sent: March 12, 2014 12:00 PM  
To: Garcia-Wright, Agatha (ENE)  
Subject: Fwd: Fw: Fwd: Letter Response- Ms. Shellie Correia- Dated March 6, 2014

Ms. Garcia-Wright,

I am in receipt of your response to my letter. However, I note that you did not comment on the MOE's processes or your intentions with regard to the errors that residents are finding in the NRWC application. I have pasted two paragraphs from my original letter in red below. What does the MOE intend to do about the abundance of errors that we have found and that we continue to find?

---

Mothers Against Wind Turbines and many Niagara residents have written to the MOE about gaps and errors in the application of the Niagara Region Wind Corporation (NRWC) project documents. We continue to find more and more errors in the NRWC documents and that is of great concern since these are the first 3MW wind turbines proposed for Ontario. Further to the issues/errors that have already been reported to you about the NRWC application, it would seem that additional mistakes have been made with respect to their "vacant" designations and some of these have already been reported to you. We have been finding more with alarming regularity and quite easily. Again, that brings into question the diligence of the MOE as well as that of the wind developers and the accuracy of their applications. As a sample, receptors 1750, 735, 794 and 1762 are all occupied homes within the definition contained in the regulations yet they show as vacant in the NRWC's reports. **Between receptors 1481 and 1598, there is an occupied home that is not shown on their diagrams at all nor is it included in the NRWC reports as a receptor.** We have other examples as well and we will continue to explore other parts of the project area to identify additional errors. Considering that we have barely initiated this exercise, it is appalling that we have already detected this many errors. Shouldn't that be the MOE's role?

It would also appear that inaccuracy in measuring distances is another issue that is common among wind developers. Mothers Against Wind Turbines is well aware of the correspondence sent to you by a resident of our community regarding the errors in the NRWC application whereby geocoded address data was used to estimate distances. Significant errors were pointed out to you in that correspondence and we will be following the MOE response and reaction in that regard. It, is yet another example of the arrogance and disrespect that wind developers display and that the MOE ignores. Why does the MOE permit this type of engineering sloppiness and why has the process been set up so that wind developers can so readily submit inaccurate data in error and by design?











## Powell, Chris

---

**From:** Powell, Chris  
**Sent:** Wednesday, April 16, 2014 9:46 AM  
**To:** Denton.Miller@ontario.ca; Raetsen, Sarah (ENE)  
**Cc:** Darren Croghan; Merv Croghan; Shiloh Berriman (sberriman@nrwc.ca); Leggett, Al (Al.Leggett@stantec.com); Ganesh, Kana; Hung, Timothy; Hassan.Shahriar@enercon.de  
**Subject:** FW: Niagara Region Wind Farm Info Request - 2e , 8 and 9 MOE ref file # 1175-972NB9  
**Attachments:** Letter regarding Sound Power Levels.pdf; Sound Power Level E-101 NRWC 140415.pdf; Sound Power Level E-82 NRWC 140415.pdf; KCE measurement excerpts E-101.pdf; KCE measurement excerpt E-82.pdf  
**Importance:** High

Denton,

In response to your email dated April 3, 2014, and further to our conference calls over this past week, we provide the following information to address your comments:

1. Info Request 2e - Sound Power Levels of the Subject Turbines

Based on follow-up discussions with Enercon, a more definitive statement confirming the use of the 104.8 dBA noise data for the E101 turbines proposed for the NRWC Project has been obtained from Enercon. Attached to this email are the following documents confirming the use of the appropriate data in the noise assessment report for this Project:

a. Letter from Enercon entitled *Sound Power Level (SPL) documents of the ENERCON Wind Energy Converters (WECs) E-101 3.0MW and the E-82 2.3MW for Niagara Region Wind Corporation (NRWC)* dated April 15, 2014, and corresponding attachments.

- 1) Sound Power Level E-101 NRWC dated April 15, 2014
- 2) KÖTTER measurement excerpts dated April 23, 2013 and March 13, 2013
- 3) Sound Power Level E-82 NRWC dated April 15, 2014
- 4) KÖTTER measurement excerpt dated February 8, 2010

This letter provides the additional confirmation requested in your last email and greater certainty with respect to the sound power level information for the turbines being proposed for the NRWC Project.

2. Info Request 8 – Munich Higher Regional Court's Decision pertinent to impulsive sound from Enercon E-82 wind turbines

The following comments have been provided by Enercon in response to MOE's request for information on this issue:

*The article referenced is in regard to a claim and subsequent ruling which has been made against ENERCON regarding the impulsivity of E-82 turbines in one of its wind parks near Munich, Germany.*

*ENERCON is in full disagreement with the ruling and are launching a full appeal against the region. In response, as per the official comments from ENERCON GmbH made on this issue.*

*"for us, this ruling is completely incomprehensible", says Felix Rehwald, Spokesperson for Europe's largest wind turbine manufacturer Enercon.*

*He continues to comment that ENERCON manufactures, sells and guarantees its turbines worldwide against tonality (in accordance with the IEC standards) and furthermore that Enercon's own specialists in sound power have yet to yield any measurements which would indicate impulsivity of the turbines and as such, Enercon is launching counter-proceedings in the way of an appeal against the ruling.*

*The court case in Germany is not related to the NRWC project from a technical and environmental permitting perspective.*

3. Info Request 9 – Cadna files for Existing Rosa Flora Turbine

In regards to the questions raised pertaining to the Cadna files, we will circulate the correct Cadna files to the MOE under a separate email, which will be available via an FTP site for your review. The Cadna file will illustrate the correct sound power level (103.5 dBA) for the Rosa Flora Turbine, as it was used in the noise model to generate the results in the Noise Assessment Report dated September 2013.

The Cadna file previously provided on March 17, 2014 identifying a sound power level for this turbine of 101 dBA (correction factor of -2.5 dBA) was not used in the modelling exercise for this Project.

The Rosa Flora turbine is a 0.65 MW turbine located approximately 3,500 m from the nearest NRWC turbine. As per the Noise Assessment Report, the maximum sound power level for this turbine used in the model was 103.5 dBA (Section 3.3, page 3.9), which was rounded to 104 in Table 3.8. This is further confirmed in the sample calculation and Cadna/A input/outputs table provided in Appendix E and in the adjusted emission level for the Rosa Flora turbine identified in Table F1 of Appendix F of the Noise Assessment Report (Stantec, September 2014).

Based on the above, we trust that the above information is sufficient to address MOE's concerns as expressed in your email dated April 3, 2014.

If you have any questions, please do not hesitate to call.

Sincerely,

Chris

**Chris Powell, M.A.**

Project Manager, Environmental Planner  
Stantec  
49 Frederick Street Kitchener ON N2H 6M7  
Phone: (519) 585-7416  
Cell: (519) 501-2368  
Fax: (519) 579-6733  
Chris.Powell@stantec.com



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---

**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]

**Sent:** Thursday, April 03, 2014 1:40 PM

**To:** Kossowski, Julia

**Cc:** Raetsen, Sarah (ENE); Powell, Chris; Ganesh, Kana; Leggett, Al; [darrenc@nrwc.ca](mailto:darrenc@nrwc.ca); Shiloh Berriman; [mervcroghan@nrwc.ca](mailto:mervcroghan@nrwc.ca); Hung, Timothy

**Subject:** FW: Niagara Region Wind Farm Info Request - 2e , 8 and 9 MOE ref file # 1175-972NB9

Hi Chris / Julia

Below are:

1. Additional comments to info request 2 ( Sound Power Levels of the subject turbines) ,
2. Two new information requests ( 8 & 9), and
3. A summary of the information requests to date ( attached).

---

### 1. Additional comments to Info Request 2

With respect to Enercon's attached document, I still have concerns with their specification of the applicable sound power level {RE: Section 6.2.2. of Noise Guidelines for Wind Farms}.

Specifically the use of the word suggests is problematic. ( reference copied below) .

The 104.8 dBA as presented in the Kotter document dated April 23, 2013 coincides with the Sound Power Level guarantee (95% rated power or higher) provided by ENERCON to the Niagara Region Wind Corporation. As such, ENERCON **suggests** that this document is more applicable to the Niagara Region Wind Corporation facility as opposed to the estimated 106 dBA presented in the ENERCON document.

Consequently, in the absence of a definitive statement from Enercon , I will be contacting you next week to discuss how my review will address this issue.

---

### 2. Info Request 8

Please ask Enercon to comment on the following court decision identified via an EBR comment:

*The Munich Higher Regional Court's decision pertinent to impulsive sound from Enercon E-82 wind turbines in a wind farm located in Rennertshofen in the district of Neuburg-Schrobenhausen. Judgment OLG München 14.08.2012*

Specifically;

1. What was the issue?
2. What was the outcome? and
3. How is this issue related to the turbines proposed in the NRWC

Please provide comments by April 17, 2014.

---

### 3. Info Request 9:

The Cadna files note the following sound power level (101.0 dBA) for Rosa Flora Turbine:



**Point Source**

Name: Rosa Flora Turbine

ID: RFT

Type: Spectrum

Frequency (Hz): 0

Operating Time (min)

Day: 60.00

Recreation: 60.00

Night: 60.00

K0 w/o Ground: 0.0

Result, PwL: Day: 101.0, Evening: 101.0, Night: 101.0

Correction: Day: -2.5, Evening: -2.5, Night: -2.5

PwL: RFS

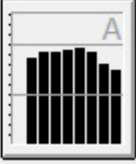
TransLoss:

Attenuation:

normal, A: 0.0

Area (m<sup>2</sup>): 0.00

Buttons: OK, Cancel, <--, -->, Geometry..., Directivity..., Help



The Noise Report notes the following sound power level (104 dBA) for the same turbine .

**Table 3.8 Assessed Noise Sources Associated with Adjacent or Proposed Wind Farms within 5 km**

| Source ID | Source Description | Sound Power Level [dBA] | UTM Coordinates |         |       |
|-----------|--------------------|-------------------------|-----------------|---------|-------|
|           |                    |                         | X [m]           | Y [m]   | Z [m] |
| RF        | Rosa Flora Turbine | 104                     | 615270          | 4756417 | 75    |

Please comment on the oversight between both sources of data, and the potential impact on the calculated sound pressure levels.

Please provide comments by April 17, 2014.

*Regards*  
*Denton Miller*  
 416-314-8310

---

**From:** Kossowski, Julia [<mailto:Julia.Kossowski@stantec.com>]  
**Sent:** March 25, 2014 4:35 PM  
**To:** Miller, Denton (ENE)  
**Cc:** Raetsen, Sarah (ENE); Powell, Chris; Ganesh, Kana; Leggett, Al; [darrenc@nrwc.ca](mailto:darrenc@nrwc.ca); Shiloh Berriman ([sberriman@nrwc.ca](mailto:sberriman@nrwc.ca)); [mervcroghan@nrwc.ca](mailto:mervcroghan@nrwc.ca); Hung, Timothy  
**Subject:** FW: Niagara Region Wind Farm Info Request -2e MOE ref file # 1175-972NB9

Hello Denton,

On behalf of Chris Powell and NRWC, please find attached ENERCON's request to your email below dated March 17, 2014.



Please contact us if you require additional information.

Kind Regards,  
Julia

**Julia Kossowski, P. Eng.**  
Project Manager - Power  
Stantec  
49 Frederick Street  
Kitchener ON N2H 6M7  
Ph: (519) 569-4338  
Fx: (519) 579-4239  
Cell: (226) 989-5259  
[julia.kossowski@stantec.com](mailto:julia.kossowski@stantec.com)

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---

**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Monday, March 17, 2014 02:37 PM  
**To:** Powell, Chris; Raetsen, Sarah (ENE) <[Sarah.Raetsen@ontario.ca](mailto:Sarah.Raetsen@ontario.ca)>; Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca' <[darrenc@nrwc.ca](mailto:darrenc@nrwc.ca)>; 'sberriman@nrwc.ca' <[sberriman@nrwc.ca](mailto:sberriman@nrwc.ca)>; 'mervcroghan@nrwc.ca' <[mervcroghan@nrwc.ca](mailto:mervcroghan@nrwc.ca)>  
**Subject:** RE: Niagara Region Wind Farm Info Request -2e MOE ref file # 1175-972NB9

Thank you for your response Chris.

**Summary :**

ENERCON considers the measurements values to be satisfactory representative values of the E-101 3,050 kW and E-82 E2 2,300 kW noise levels.

| Frequency (Hz)           | Octave band sound power level in dB(A) |      |      |       |       |       |       |       |
|--------------------------|--|------|------|-------|-------|-------|-------|-------|
|                          | 63                                     | 125  | 250  | 500   | 1,000 | 2,000 | 4,000 | 8,000 |
| E-101 3,050 kW @ 8.3m/s  | 86.3                                   | 91.6 | 98.6 | 100.8 | 98.3  | 92.8  | 85.9  | 73.3  |
| E-82 E2 2,300 kW @ 9 m/s | 86.6                                   | 94.6 | 94.3 | 97.3  | 98.7  | 93.8  | 81.5  | 73.4  |

**ISSUE:**

Unfortunately the response from Enercon (satisfactory representative) is not definitive enough for our review purposes. It is requested that Enercon explain why they have published at least two different data sheets for the

same equipment ( E-101), that have different values for the 95% rated capacity sound power levels (106 dBA and 104.8 dBA)?

It is also requested that Enercon explain why the above sound power levels for the E-101 are applicable to the Niagara Region Wind Corporation facility as opposed to the 106 dBA data that was referenced in a previous e-mail ?

Please provide a response by **March 25, 2014**.

*Regards*  
*Denton Miller*  
*416-314-8310*

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]  
**Sent:** March 17, 2014 1:25 PM  
**To:** Miller, Denton (ENE); Raetsen, Sarah (ENE); Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca'; 'sberriman@nrwc.ca'; 'mervcroghan@nrwc.ca'  
**Subject:** RE: Niagara Region Wind Farm Info Request -2d MOE ref file # 1175-972NB9

Denton,

The attached information has been provided by Enercon in response to your email dated March 12, 2014. The values contained in the attachment provide the A-weighted values for the E-101 and E-82 turbines to 95% rated capacity, while the values included in Table 3.2 of the Noise Assessment Report (as attached to your email) are linear weighted values. The A-weighted values provided by Enercon in the attached table are consistent with the information provided previously by Enercon to Stantec for use in the noise model. These values were converted to linear weighted values following standard conversion methods and incorporated accordingly into the noise model and Noise Assessment Report.

In regards to your second comment, the requested Cadna-A file has been provided under a separate email earlier today for your review.

We trust that this information will be sufficient. If you have any further questions, please do not hesitate to ask.

Sincerely,

Chris

**Chris Powell, M.A.**  
Project Manager, Environmental Planner  
Associate, Environmental Services  
Stantec Consulting Ltd.

Office: (519) 585-7416  
Cell: (519) 501-2368  
[chris.powell@stantec.com](mailto:chris.powell@stantec.com)

---

**From:** Miller, Denton (ENE) [[Denton.Miller@ontario.ca](mailto:Denton.Miller@ontario.ca)]  
**Sent:** March 12, 2014 12:22 PM  
**To:** Powell, Chris; Raetsen, Sarah (ENE); Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca'; 'sberriman@nrwc.ca'; 'mervcroghan@nrwc.ca'  
**Subject:** RE: Niagara Region Wind Farm Info Request -2d MOE ref file # 1175-972NB9

Thank you for your response Chris

**Summary:**

In accordance with Section 6.2.2 of the Noise Guidelines for Wind Farms your firm was requested to provide the sound power levels, frequency spectra in octave bands (63 to 8000 Hz), and tonality at integer wind speeds from 6 to 10 m/s for the subject wind turbines. ( E-82 & E-101)

Your firm responded (para-phrased) that this information is not necessary, as your analysis based on the 95% rated capacity sound power levels of the turbines. (This approach is acceptable to MOE.)

Enercon further notes (Mar 7, 2014 e-mail) that the SPL of the E-82 and the E-101 Wind Energy Converters (WECs) do not exceed beyond the values at 95% rated capacity for hub heights specified in its [Sound Power Level documents](#).

**Issue:**

There are several different Enercon documents noting different values for the 95% rated capacity sound power levels. For example:

1. There is a April 2013 Enercon document (attached) noting that the 95% rated capacity sound power level for the E-101 3050 kW turbine is **106 dBA**. ( NRWC report states this value to be **104.8 dBA**) {it is acknowledged that the ratings differ by 50 kW, Niagara turbines are smaller}
2. There is a April 2010 Enercon document (attached) noting that the 95% rated capacity sound power level for the E-82 2000 kW turbine is 103.5 dBA; (NRWC report states this value to be 103.3 dBA) {it is acknowledged that the ratings differ by 300 kW – Niagara turbines are larger}

**Requests:**

1. Please provide by **March 20, 2014**, a written statement from Enercon confirming that the values noted in Table 3.2 of your Report ( Sept 30, 2013) are accurate. (For reference the table is copied below.)

---

**Table 3.2 Highest Wind Turbine Sound Emission Corresponding to 95% or above Rated Electrical Output Power**

| Description                         | Octave Band Sound Power Level (dB ref. 10-12 Watts) |       |       |       |      |      |      |      |                 |
|-------------------------------------|---|-------|-------|-------|------|------|------|------|-----------------|
|                                     | 63  | 125   | 250   | 500   | 1k   | 2k   | 4k   | 8k   | dB/dBA          |
| ENERCON model E101 model at 8.3 m/s | 112.5   | 107.7 | 107.2 | 104.0 | 98.3 | 91.6 | 85   | 74.4 | 113.9/<br>104.8 |
| ENERCON model E82 model at 9 m/s    | 112.8   | 110.8 | 103   | 100.5 | 98.7 | 92.6 | 80.5 | 74.5 | 115.5/<br>103.3 |

2. Please also forward the cadna A file (s) to this office.

*Regards*  
*Denton Miller*  
*416-314-8310*

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]

**Sent:** March 7, 2014 4:17 PM

**To:** Miller, Denton (ENE); Raetsen, Sarah (ENE); Hung, Timothy

**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca'; 'sberriman@nrwc.ca'; 'mervcroghan@nrwc.ca'

**Subject:** RE: Niagara Region Wind Farm Info Request -2c MOE ref file # 1175-972NB9

Denton,

In preparing the Noise Assessment Report, Stantec and NRWC understood this issue and the requirements outlined in the MOE Noise Guidelines for Wind Farms. This issue was raised by NRWC and discussed during the project design stage with the manufacturer, who confirmed that despite the change in power with wind speed and height their guaranteed maximum sound power at rated capacity would not change for the proposed turbine models, and that tonality would not result at these higher turbine heights or wind speeds. This was confirmed and guaranteed through a separate letter from Enercon, which has been provided to the MOE as part of the Noise Assessment Report.

Following your email, we have discussed this further with Enercon and they have prepared additional information to address your specific comment with respect to hub height and tonality (see attached). In the supplemental information, they have reconfirmed the following:

1. that the sound power levels of the E82 and E101 turbines do not exceed beyond the values at 95% rated capacity,
2. that the turbines shall not exceed the guaranteed maximum sound power levels for hub heights specified; and
3. that the tonal audibility shall be equal to or less than 2 dB over the whole operational range, including at wind speeds of 10m/s.

Stantec confirms that the analysis provided in the Noise Assessment Report considered the spectral sound power data (i.e. frequency based data) based on the IEC test and overall sound power level corresponding to 95% rated electrical output power as guaranteed by the manufacturer (Enercon). The manufacturer has confirmed that the sound power level at 95% rated capacity is independent of height and wind speeds and has addressed the tonality concerns in a separate letter attached.

The MOE raised similar concerns during the screening of REA application for completeness and we provided additional discussion and rationale at that time. We understood that this additional information was sufficient to address your concern, but trust that the supplemental information now provided by Enercon further supports the completion of your technical review.

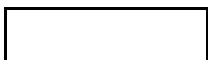
If you require further information in this regard, we request that a meeting be held to review and discuss this issue with our noise experts as soon as possible.

Sincerely,

Chris

**Chris Powell, M.A.**

Project Manager, Environmental Planner  
Stantec  
49 Frederick Street Kitchener ON N2H 6M7  
Phone: (519) 585-7416  
Cell: (519) 501-2368  
Fax: (519) 579-6733  
Chris.Powell@stantec.com



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**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Friday, February 21, 2014 12:39 PM  
**To:** Powell, Chris; Raetsen, Sarah (ENE); Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca'; 'sberriman@nrwc.ca'; 'mervcroghan@nrwc.ca'  
**Subject:** RE: Niagara Region Wind Farm Info Request -2c MOE ref file # 1175-972NB9

Hello Chris

I have yet to receive a response to the e-mails I sent to your office on January 24, and 30 , 2014 regarding the sound power levels of the proposed turbines (questions 2 & 3 in the January 24, 2014 email to your office; copied below).

Please provide a response by **March 7, 2014**. If your firm is unable to provide a response by this date I will have to stop the clock on our service guarantee time.

If you have any questions , please feel free to contact me.

PS:  
I also have additional questions via EBR comments pertinent to vacant lots which I will send to you in a separate e-mail later today.

*Regards*  
*Denton Miller*  
*416-314-8310*

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]  
**Sent:** January 30, 2014 8:29 AM  
**To:** Miller, Denton (ENE); Raetsen, Sarah (ENE); Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca'; 'sberriman@nrwc.ca'; 'mervcroghan@nrwc.ca'  
**Subject:** Re: Niagara Region Wind Farm Information request -2 MOE ref file # 1175-972NB9

Ok. I'll follow up with Kana and we will get back to you shortly.

Chris  
Chris Powell, M.A.  
Project Manager  
Environmental Planner  
Stantec  
Cell: (519) 501-2368

Sent from my Blackberry

---

**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Thursday, January 30, 2014 08:26 AM  
**To:** Powell, Chris; Raetsen, Sarah (ENE) <[Sarah.Raetsen@ontario.ca](mailto:Sarah.Raetsen@ontario.ca)>; Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; Darren Croghan <[darrenc@nrwc.ca](mailto:darrenc@nrwc.ca)>; Shiloh Berriman ([sberriman@nrwc.ca](mailto:sberriman@nrwc.ca)) <[sberriman@nrwc.ca](mailto:sberriman@nrwc.ca)>; Merv Croghan <[mervcroghan@nrwc.ca](mailto:mervcroghan@nrwc.ca)>

**Subject:** RE: Niagara Region Wind Farm Information request -2 MOE ref file # 1175-972NB9

Hello Chris.

Thank you for your response to my questions noted in your previous e-mail (January 29, 2014 10:40 AM).

The e-mail has answered question # 1 (RE: Participating Receptors), however questions 2 and 3 still require attention.

Below is additional rationale as to why questions # 2 and 3 will require further clarification from your firm:

**Rationale:**

Documents prepared by the International Electrotechnical Commission note that the apparent sound power level is correlated to the acoustic reference wind speed and not to the wind speed at hub height. An increase in hub height will increase the apparent sound power level and might have an unpredictable effect on tonality.

The following examples from Enercon publications note this phenomenon:

Example 1: Sound Power Level for the E-82 with 2300 kW rated power

| in relation to wind speed at 10 m height |             |             |             |             |
|--|-------------|-------------|-------------|-------------|
| hub height<br>$V_s$<br>in 10 m height    | 78 m        | 85 m        | 98 m        | 108 m       |
| 5 m/s                                    | 96,3 dB(A)  | 96.6 dB(A)  | 97.2 dB(A)  | 97.5 dB(A)  |
| 6 m/s                                    | 100.7 dB(A) | 101.0 dB(A) | 101.6 dB(A) | 101.9 dB(A) |
| 7 m/s                                    | 103.3 dB(A) | 103.5 dB(A) | 103.6 dB(A) | 103.6 dB(A) |
| 8 m/s                                    | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) |
| 9 m/s                                    | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) |
| 10 m/s                                   | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) |
| 95% rated power                          | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) |

Example 2:



## Sound Power Level for the E-33 with 330 kW rated power

| in relation to standardized wind speed $v_s$ at 10 m height |             |             |             |             |  |
|---|-------------|-------------|-------------|-------------|--|
| hub height<br>$v_s$<br>at 10 m height                       | 37 m        | 44 m        | 49 m        | 50 m        |  |
| 5 m/s   | 90.9 dB(A)  | 91.0 dB(A)  | 91.3 dB(A)  | 91.3 dB(A)  |  |
| 6 m/s   | 95.1 dB(A)  | 96.0 dB(A)  | 96.5 dB(A)  | 96.5 dB(A)  |  |
| 7 m/s   | 98.6 dB(A)  | 98.9 dB(A)  | 99.0 dB(A)  | 99.0 dB(A)  |  |
| 8 m/s   | 99.7 dB(A)  | 99.8 dB(A)  | 99.9 dB(A)  | 99.9 dB(A)  |  |
| 9 m/s   | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) |  |
| 10 m/s  | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) |  |
| 95% rated power   | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) |  |

Therefore in accordance with Section 6.2.2 of the Noise Guidelines for Wind Farms please provide the sound power levels, frequency spectra in octave bands (63 to 8000 Hz), and tonality at integer wind speeds from 6 to 10 m/s for the subject wind turbines.

I have another question which I send in a separate e-mail later today.

*Regards*  
Denton Miller  
416-314-8310

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]  
**Sent:** January 29, 2014 10:40 AM  
**To:** Miller, Denton (ENE); Raetsen, Sarah (ENE); Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; Darren Croghan; Shiloh Berriman ([sberriman@nrwc.ca](mailto:sberriman@nrwc.ca)); Merv Croghan  
**Subject:** RE: Niagara Region Wind Farm Information request MOE ref file # 1175-972NB9

Denton,

In response to your email from Friday, January 24, 2014, Kana has provided the justification you are seeking to address your specific questions. Based on his input, we offer the following responses:

### Question 1: Participating Receptors

All of the participating receptors will include project infrastructure and adhere to the definition provided in O. Reg. 359/09 and include a project component.

The REA application considered 80 turbines during the project planning and design stages, including the completion of the various technical reports. The 80 turbine layout is compliant with the noise requirements of the regulation. In order to meet the FIT contract requirements of 230 MW, only 77 of these 80 turbines are to be built (each rated at 3 MW - one or more to be de-rated to satisfy the 230MW requirement).

The specific turbines to be constructed will depend on the detailed engineering and wind resourcing studies to be completed. The decision to drop a turbine depends highly on wind power, and it is likely that a turbine may be dropped from a cluster of turbines where more than one turbine is located within the same property (due to wind resources). Based on that understanding, all participating receptors will continue to fit the definition of participating receptors.

In the event that a turbine is dropped from a property with only one turbine, the design of the wind farm will ensure that project infrastructure remains on that property to ensure its compliance as a participating receptor, in the event that it violates the 40.0 dBA noise threshold, as defined in the regulation.

Question 2: Re Table 3.1 ; Sound Power Levels for the E-101

In preparing the noise model and assessment, Stantec concluded the data is valid based on the following:

- a. Stantec used sound power levels in the analysis, which is a parameter independent of height of the source;
- b. The manufacturer has guaranteed /confirmed to NRWC that their machine will meet the sound power requirements as specified in the test sheet (included with the report); and
- c. IEC 61400-11 (i.e. international standard CAN/CSA-C61400-11-07) uses normalized height so that measurements are independent of height and terrain (i.e. location, where it was measured).

As such, the manufacturer's data values used in the noise model for predicting sound power levels at the various receptors are valid for the E-101 turbines.

Question 3: Re Table 3.1 ; Sound Power Levels for the E-82

Similar to the above rationale, the manufacturer's data values used in the noise model for predicting sound power levels at the various receptors are valid for the E-82 turbines.

We trust that this information is of assistance. If you have any further questions, please do not hesitate to give Kana or myself a call.

Sincerely,

Chris

**Chris Powell, M.A.**

Project Manager, Environmental Planner  
Stantec  
49 Frederick Street Kitchener ON N2H 6M7  
Phone: (519) 585-7416  
Cell: (519) 501-2368  
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**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Friday, January 24, 2014 3:15 PM  
**To:** Ganesh, Kana; Hung, Timothy; Raetsen, Sarah (ENE)  
**Cc:** Raetsen, Sarah (ENE); Powell, Chris; Leggett, Al  
**Subject:** RE: Niagara Region Wind Farm Information request MOE ref file # 1175-972NB9

Hello Kana

He have started review of the subject application and to date have the following preliminary questions.

**Question 1: Participating Receptors**

**Background:**

Section 1 of the report notes the following:

The facility is comprised of 80 wind turbine. However, only 77 of the wind turbines will be constructed.

Section 4.2 of the report notes the following:

There are a total of 96 Participating Receptors.

**Issue:**

Please confirm that the participating Noise Receptors adhere with the definition in Section 1(6) of O. Reg. 359/09. Specifically will all participating receptors have infrastructure located on them?

If this is not the case then some of these participating receptors must be considered as points of reception and the analysis in the report updated to address these points of reception.

---

**Question 2: Re Table 3.1 ; Sound Power Levels for the E-101**

It is noted that the data in Appendix D (Enercon E-101) is for a turbine with a hub height of **99 m**. The proposal ( Sept 30, 2013 report ) notes the turbine nacelles will be at **124 m** and/or **135 m** height. Please comment on the implication of using the 99 m data in your analysis to represent turbines at **124 m** and/or **135 m** height .

---

**Question 3: Re Table 3.1 ; Sound Power Levels for the E-82**

It is noted that the data in Appendix D (Enercon E-82) is for a turbine with a hub height of **108 m**. The proposal ( Sept 30, 2013 report ) notes the turbine nacelles will be at **135 m** height. Please comment on the implication of using the 108 m data in your analysis to represent turbines at **135 m** height .

Thank you.

*Regards*  
*Denton Miller*

Denton Miller | Senior Review Engineer | Team 5 | Environmental Approvals Branch | Ministry of the Environment  
2 St. Clair Ave W. 12a Floor Toronto, Ontario, M4V 1L5 | Phone: 416-314-8310 | [Denton.Miller@ontario.ca](mailto:Denton.Miller@ontario.ca)

---

**From:** Ganesh, Kana [<mailto:Kana.Ananthganeshan@stantec.com>]

**Sent:** January 7, 2014 4:18 PM

**To:** Miller, Denton (ENE); Hung, Timothy

**Cc:** Raetsen, Sarah (ENE); Powell, Chris; Leggett, Al

**Subject:** RE: Niagara Region Wind Farm Information request MOE ref file # 1175-972NB9

Thanks for the email Denton and happy New Year to you.

Please find attached the Tables; I have some of them in Word format (readily available) and some in Excel format.

Please let me know word format is acceptable for your purpose.

Best regards

**Kana Ganesh, PhD., P.Eng**

Sr. Acoustics Noise and Vibration Engineer

300 - 675 Cochrane Drive West Tower Markham ON L3R 0B8

Phone: 905-415-6332

Fax: 905-474-9889

kana.ganesh@stantec.com



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**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]

**Sent:** Tuesday, January 07, 2014 3:27 PM

**To:** Ganesh, Kana; Hung, Timothy

**Cc:** Raetsen, Sarah (ENE); Powell, Chris

**Subject:** Niagara Region Wind Farm Information request MOE ref file # 1175-972NB9

Hello Kana / Timothy

I am the review engineer assigned to this file. To facilitate my review , please forward excel copies of the following tables in the noise assessment report.

Tables:

|     |     |     |     |
|-----|-----|-----|-----|
| 2.1 | 3.3 | 3.6 | 4.1 |
| 3.1 | 3.4 | 3.7 | 6.2 |
| 3.2 | 3.5 | 3.8 | 6.3 |

F.5 Appendix E

F.6 Barrier Co-ordinates

your file # 160950269 dated September 30, 2013.

Thank you

## APPLICATION SUMMARY

|                         |  |                 |                    |
|-------------------------|--|-----------------|--------------------|
| <b>Status</b>           | <b>New Application</b>                 | <b>Assigned</b> |                    |
| <b>IDS Reference #</b>  | <b>1175-972NB9</b>                     | <b>File #</b>   | <b>R- 0018 -13</b> |
| <b>REA #</b>            |  |                 |                    |
| <b>Application Type</b> | <b>New Renewable Energy Approval</b>   |                 |                    |
| <b>Media</b>            | <b>Noise</b>                           |                 |                    |
| <b>Facility Type:</b>   |  |                 |                    |
| <b>Client Name</b>      | <b>Niagara Region Wind Corporation</b> | <b>Client #</b> | <b>2349-972N8X</b> |
| <b>Client Aliases</b>   |  |                 |                    |
| <b>Site Name</b>        | <b>Niagara Region Wind Farm</b>        | <b>Site #</b>   | <b>9527-972NA9</b> |

Denton Miller | Senior Review Engineer | Team 5 | Environmental Approvals Branch | Ministry of the Environment  
2 St. Clair Ave W. 12a Floor Toronto, Ontario, M4V 1L5 | Phone: 416-314-8310 | [Denton.Miller@ontario.ca](mailto:Denton.Miller@ontario.ca)

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

**Appendix G3 – Sound Power Level Rationale**

Concern:

Concerns were raised by the MOE with respect to Enercon's specification of the applicable sound power level for the E-82 and E-101 turbines for this Project. Specifically, MOE requested clarification regarding the applicability of different data sheets available from Enercon noting different values for the 95% rated capacity sound power levels for the E-82 and E-101 turbines.

Response:

Based on follow-up discussions with Enercon, and discussions with the MOE, a more definitive statement confirming the use of the 104.8 dBA noise data for the E101 turbines proposed for the NRWC Project has been obtained from Enercon. The following documents are attached confirming the use of the appropriate data in the NAR for this Project:

- a. Letter from Enercon entitled Sound Power Level (SPL) documents of the ENERCON Wind Energy Converters (WECs) E-101 3.0MW and the E-82 2.3MW for Niagara Region Wind Corporation (NRWC) dated April 15, 2014, and corresponding attachments:
  - 1) Sound Power Level E-101 NRWC dated April 15, 2014
  - 2) KÖTTER measurement excerpts dated April 23, 2013 and March 13, 2013
  - 3) Sound Power Level E-82 NRWC dated April 15, 2014
  - 4) KÖTTER measurement excerpt dated February 8, 2010

This letter provides the additional confirmation and greater certainty with respect to the sound power level information for the turbines being proposed for the NRWC Project.

As noted in the attached documents, Enercon is continuously optimizing the mechanical and aerodynamic characteristics of its turbines to reduce the overall SPL. Specific actions include the addition of dampers as well as design modifications, where possible. As such, Enercon has confirmed the validity of using the maximum sound power level 104.8 dBA for the E-101 turbine and 103.3 dBA for the E-82 turbine for the NRWC facility in accordance with the attached supporting documents. See correspondence dated April 16, 2014 and April 24, 2014 (attached).



**Hassan Shahriar**  
**Commercial Manager**  
Direct Line: (416) 572-8912  
Email: [hassan.shahriar@enercon.de](mailto:hassan.shahriar@enercon.de)

April 15, 2014

By email

**Niagara Region Wind Corporation**  
**277 Lakeshore Road East, Suite 211**  
**Oakville, ON L6J 6J3**

**Attn: Mr. Mervin Croghan**

**Subject: Sound Power Level (SPL) documents of the ENERCON Wind Energy Converters (WECs) E-101 3.0MW and the E-82 2.3MW for Niagara Region Wind Corporation (NRWC).**

Dear Sir,

It is our understanding that a document titled “Sound Power Level of the E-101, Operational Mode I (Data Sheet)” has been obtained by the Ministry of Environment of Ontario. This document differs from the one ENERCON provided to NRWC for the purpose of its facility. In order to prevent any confusion, please find below clarification on the relevancy of the SPL documents provided to NRWC.

The document “Sound Power Level of the E-101, Operational Mode I (Data Sheet)” contains estimated values, which are based on the theoretical estimation of sound characteristics of turbine technology, as well as modeling of mechanical and aerodynamic properties. ENERCON is continuously optimizing the mechanical and aerodynamic characteristics of its turbines to reduce the overall SPL. Specific actions include the addition of dampers as well as design modifications, where possible. These led to improved sound characteristics which were subsequently measured by KÖTTER Consulting Engineers GmbH & Co. KG, an independent engineering firm.

KÖTTER’s measurements for the E-101 and the E-82 form the basis of the SPL documents provided to NRWC. ENERCON confirms the validity of using the maximum SPL of E-101 at 104.8 dBA and of E-82 at 103.3 dBA for the NRWC facility. As such, ENERCON confirms that the attached Sound Power Level documents (dated April 15, 2014) be used for the noise assessment of the NRWC facility.

Sincerely,

Hassan Shahriar  
Commercial Manager  
**ENERCON Canada Inc.**

cc : Darren Croghan, Michael Weidemann, Mark Smith

attached: Sound Power Level E-101 NRWC dated April 15, 2014  
KÖTTER measurement excerpts dated April 23, 2013 and March 13, 2013  
Sound Power Level E-82 NRWC dated April 15, 2014  
KÖTTER measurement excerpt dated February 8, 2010

# Sound Power Level of the ENERCON E-82 2.3 MW

**Publisher:**

ENERCON Canada Inc.  
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|                |                       |                  |  |
|----------------|-----------------------|------------------|--|
| Author/date:   | H.Shahriar /15.06.12  | Translator/date: | N.Nnnn / DD.MM.YY                      |
| Department:    | Sales                 | Revisor/date:    | H.Shahriar / 11.04.14                  |
| Approved/date: | M. Weidemann/11.04.14 | Reference:       | Sound Power Level E-82 NRWC 140415.doc |
| Released/date: | H.Shahriar /15.04.14  |                  |  |

The following represents the sound power level of the E-82 2.3 MW for the entire operational range of wind speeds in accordance with the measurement technique IEC 61 400 – 11:2002 and A1:2006.

### Sound Power Level (SPL) for the E-82 with 2.3 MW rated power

| Vs<br>in 10m height    | Hub Height | 108m               | 138m               |
|------------------------|------------|--------------------|--------------------|
| <b>6 m/s</b>           |            | <b>100.6 dB(A)</b> | <b>101.1 dB(A)</b> |
| <b>7 m/s</b>           |            | <b>102.5 dB(A)</b> | <b>102.8 dB(A)</b> |
| <b>8 m/s</b>           |            | <b>103.2 dB(A)</b> | <b>103.3 dB(A)</b> |
| <b>9 m/s</b>           |            | <b>103.3 dB(A)</b> | <b>103.3 dB(A)</b> |
| <b>10 m/s</b>          |            | <b>103.3 dB(A)</b> | <b>103.3 dB(A)</b> |
| <b>95% rated power</b> |            | <b>103.3 dB(A)</b> | <b>103.3 dB(A)</b> |

Measurement results of the octave band corresponding to 95% or higher rated power are presented in the table below. ENERCON confirms the measurements values to be representative values of the E-82 2.3 MW noise levels.

| Frequency (Hz)                | Octave band sound power level in dB(A) |      |      |      |       |       |       |       | dB(A) |
|-------------------------------|--|------|------|------|-------|-------|-------|-------|-------|
|                               | 63                                     | 125  | 250  | 500  | 1,000 | 2,000 | 4,000 | 8,000 |       |
| <b>E-82 2.3 MW<br/>@ 9m/s</b> | 86.6                                   | 94.6 | 94.3 | 97.3 | 98.7  | 93.8  | 81.5  | 73.4  | 103.3 |

1. The relation between the sound power level and the standardized wind speed  $V_s$  in 10 m height as shown above is valid on the premise of a logarithmic wind profile with a roughness length of 0.05m. The relation between the sound power level and the wind speed at hub heights applies for all hub heights. During the sound measurements the wind speeds are derived from the power output and the power curve of the WEC.
2. A tonal audibility of  $\Delta L_{a,k} \leq 2$  dB can be expected over the whole operational range and is valid in the near vicinity of the turbine according to IEC 61 400 -11 ed. 2.

|                |                       |                  |  |
|----------------|-----------------------|------------------|--|
| Author/date:   | H.Shahriar /15.06.12  | Translator/date: | N.Nnnn / DD.MM.YY                      |
| Department:    | Sales                 | Revisor/date:    | H.Shahriar / 11.04.14                  |
| Approved/date: | M. Weidemann/11.04.14 | Reference:       | Sound Power Level E-82 NRWC 140415.doc |
| Released/date: | H.Shahriar /15.04.14  |                  |  |

3. Sound power level values provided in the table are valid for the **Operational Mode I**. The respective power curve is the calculated power curve of the E-82 E2 dated November 2009 (Rev 3.0).
4. Due to typical measurement uncertainties, if the sound power level is measured according to the accepted method, the measured values can differ from the values shown in this document in the range of +/- 1dB.

Accepted measurement method:

IEC 61400-11 ed.2 ("Wind turbine generator systems – Part 11: Acoustic noise measurement techniques; Second edition, 2002 – 12").

If the difference between total noise and background noise during a measurement is less than 6 dB, a higher uncertainty must be considered.

5. The sound power level of a wind turbine depends on several factors such as, but not limited to, regular maintenance and day-to-day operation in compliance with the manufacturer's operating instructions.

|                |                       |                  |  |
|----------------|-----------------------|------------------|--|
| Author/date:   | H.Shahriar /15.06.12  | Translator/date: | N.Nnnn / DD.MM.YY                      |
| Department:    | Sales                 | Revisor/date:    | H.Shahriar / 11.04.14                  |
| Approved/date: | M. Weidemann/11.04.14 | Reference:       | Sound Power Level E-82 NRWC 140415.doc |
| Released/date: | H.Shahriar /15.04.14  |                  |  |

| <b>Summary of Test Report</b>   |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
|---|--|----------------------------|-----------------------|-------|---------------------------|--|-------|----------------------------|-------|-------|-------|--------|
| <b>(Measured hub height of 108 m) /1/</b>   |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
| Basic sheet "Geräusche" (Noise), according to the   |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
| "Technische Richtlinien für Windenergieanlagen, Teil 1: Bestimmung der Schallemissionswerte"              |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
| (Technical Guidelines for Wind Energy Converters, Part 1: Determination of sound emission values)         |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
| Rev. 18 of February 1, 2008 (Editor: Fördergesellschaft Windenergie e.V. Stresemannplatz 4, D-24103 Kiel) |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
| Extract of Test Report 209244-04.01 IEC   |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
| on noise emission of wind energy converter of type E-82 E2  |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
| General Data  |  |                            |                       |       |                           | Technical Data (manufacturer's specifications)                                   |       |                            |       |       |       |        |
| Manufacturer of WEC:  |  | Enercon GmbH               |                       |       |                           | Rated power (generator):   |       | 2.300 kW                   |       |       |       |        |
| Serial number:  |  | 82679                      |                       |       |                           | Diameter of rotor:   |       | 82 m                       |       |       |       |        |
| Location of WEC (ca.):  |  | 26629 Großefehn            |                       |       |                           | Hub height above ground:   |       | 108 m                      |       |       |       |        |
| Geographic co-ordinates:  |  | GK longitude: 34.15.287    |                       |       |                           | Type of tower:   |       | conical tube tower         |       |       |       |        |
|   |  | GK latitude: 59.14.701     |                       |       |                           | Power control:   |       | Pitch                      |       |       |       |        |
| Complementary rotor data<br>(manufacturer's specifications)   |  |                            |                       |       |                           | Complementary data of gear unit and generator<br>(manufacturer's specifications) |       |                            |       |       |       |        |
| Manufacturer of rotor blade:  |  | Enercon                    |                       |       |                           | Manufacturer of gear unit:   |       | not applicable             |       |       |       |        |
| Type of rotor blade:  |  | E-82 E2                    |                       |       |                           | Type of gear unit:   |       | not applicable             |       |       |       |        |
| Blade setting angle:  |  | variable                   |                       |       |                           | Manufacturer of generator:   |       | Enercon                    |       |       |       |        |
| Number of rotor blades:   |  | 3                          |                       |       |                           | Type of generator:   |       | E-82 E2                    |       |       |       |        |
| Rotor speed range:  |  | 6 to 18 r.p.m. (mode OM I) |                       |       |                           | Generator speed range:   |       | 6 to 18 r.p.m. (mode OM I) |       |       |       |        |
| Calculated Performance Chart ENERCON E-82 E2; calculated by ENERCON (Rev. 3.0)                            |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
|   | Reference Point                        |                            |                       |       | Noise emission parameters | Observations   |       |                            |       |       |       |        |
|   | standardized wind speed in 10 m height |                            | true electrical power |       |                           |  |       |                            |       |       |       |        |
| sound power level $L_{WA,P}$  | 5 $ms^{-1}$                            |                            | 579 kW                |       | 96.4 dB(A)                |  |       |                            |       |       |       |        |
|   | 6 $ms^{-1}$                            |                            | 1,089 kW              |       | 100.6 dB(A)               |  |       |                            |       |       |       |        |
|   | 7 $ms^{-1}$                            |                            | 1,612 kW              |       | 102.5 dB(A)               |  |       |                            |       |       |       |        |
|   | 8 $ms^{-1}$                            |                            | 2,032 kW              |       | 103.2 dB(A)               |  |       |                            |       |       |       |        |
|   | 9 $ms^{-1}$                            |                            | 2,255 kW              |       | 103.3 dB(A)               |  |       |                            |       |       |       |        |
|   | 10 $ms^{-1}$                           |                            | 2,300 kW              |       | 102.9 dB(A)               |  |       |                            |       |       |       |        |
| tonal audibility $\Delta L_{a,k}$   | 5 $ms^{-1}$                            |                            | kW                    |       | -2.7 dB                   |  |       |                            |       |       |       |        |
|   | 6 $ms^{-1}$                            |                            | kW                    |       | <- 3.0 dB                 |  |       |                            |       |       |       |        |
|   | 7 $ms^{-1}$                            |                            | kW                    |       | -1.8 dB                   |  |       |                            |       |       |       |        |
|   | 8 $ms^{-1}$                            |                            | kW                    |       | -0.7 dB                   |  |       |                            |       |       |       |        |
|   | 9 $ms^{-1}$                            |                            | kW                    |       | 0.2 dB                    |  |       |                            |       |       |       |        |
|   | 10 $ms^{-1}$                           |                            | kW                    |       | -0.4 dB                   |  |       |                            |       |       |       |        |
| impulse adjustment for small distances $K_{IN}$   | 5 $ms^{-1}$                            |                            | kW                    |       | 0 dB                      |  |       |                            |       |       |       |        |
|   | 6 $ms^{-1}$                            |                            | kW                    |       | 0 dB                      |  |       |                            |       |       |       |        |
|   | 7 $ms^{-1}$                            |                            | kW                    |       | 0 dB                      |  |       |                            |       |       |       |        |
|   | 8 $ms^{-1}$                            |                            | kW                    |       | 0 dB                      |  |       |                            |       |       |       |        |
|   | 9 $ms^{-1}$                            |                            | kW                    |       | 0 dB                      |  |       |                            |       |       |       |        |
|   | 10 $ms^{-1}$                           |                            | kW                    |       | 0 dB                      |  |       |                            |       |       |       |        |
| Third-octave band sound power level for $v_s = 5 ms^{-1}$ in dB(A)  |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
| Frequency   | 50                                     | 63                         | 80                    | 100   | 125                       | 160  | 200   | 250                        | 315   | 400   | 500   | 630    |
| $L_{WA,P}$  | 74.1                                   | 76.5*                      | 80.0                  | 85.6  | 82.2                      | 81.7   | 81.9  | 83.7                       | 85.6  | 85.1  | 85.5  | 87.6   |
| Frequency   | 800                                    | 1,000                      | 1,250                 | 1,600 | 2,000                     | 2,500  | 3,150 | 4,000                      | 5,000 | 6,300 | 8,000 | 10,000 |
| $L_{WA,P}$  | 86.9                                   | 86.2                       | 84.8                  | 82.4  | 78.8                      | 75.3   | 70.6  | 65.5                       | 60.3* | 60.3* | 63.0  | 70.3   |
| Octave band sound power level for $v_s = 5 ms^{-1}$ in dB(A)  |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
| Frequency   | 63                                     | 125                        | 250                   | 500   | 1,000                     | 2,000  | 4,000 | 8,000                      |       |       |       |        |
| $L_{WA,P}$  | 82.3                                   | 88.3                       | 88.8                  | 91.0  | 90.8                      | 84.5   | 72.1  | 71.4                       |       |       |       |        |
| Third-octave band sound power level for $v_s = 6 ms^{-1}$ in dB(A)  |  |                            |                       |       |                           |  |       |                            |       |       |       |        |
| Frequency   | 50                                     | 63                         | 80                    | 100   | 125                       | 160  | 200   | 250                        | 315   | 400   | 500   | 630    |
| $L_{WA,P}$  | 78.2**                                 | 79.1*                      | 82.2                  | 85.2  | 87.4                      | 84.3   | 85.0  | 87.3                       | 88.7  | 88.5* | 89.5* | 93.2   |
| Frequency   | 800                                    | 1,000                      | 1,250                 | 1,600 | 2,000                     | 2,500  | 3,150 | 4,000                      | 5,000 | 6,300 | 8,000 | 10,000 |
| $L_{WA,P}$  | 91.7                                   | 91.5                       | 89.9                  | 87.1  | 83.0                      | 79.4   | 74.4  | 69.0                       | 63.5  | 64.4  | 67.4  | 74.3   |



| Octave band sound power level for $v_s = 6 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 84.9*  | 90.6  | 92.0  | 95.7  | 95.9  | 89.0  | 75.8  | 75.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 7 \text{ ms}^{-1}$ in dB(A)  |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 78.6** | 79.8  | 82.7  | 84.8  | 90.8  | 86.2  | 86.0  | 89.7  | 91.0  | 92.5  | 91.7  | 93.9   |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 93.4   | 93.3  | 91.8  | 89.2  | 85.8  | 81.9  | 77.0  | 72.2  | 66.1  | 65.3  | 66.8  | 72.8   |
| Octave band sound power level for $v_s = 7 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 85.5*  | 92.8  | 94.2  | 97.6  | 97.7  | 91.4  | 78.5  | 74.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A)  |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 77.4*  | 80.4  | 83.1  | 84.9  | 91.2  | 86.6  | 86.3  | 90.4  | 91.4  | 92.9  | 92.1* | 94.8   |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 94.2   | 94.1  | 92.6  | 90.1  | 86.7  | 82.7  | 77.8  | 73.3  | 67.7  | 65.8  | 66.6  | 71.4   |
| Octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 85.6   | 93.2  | 94.6  | 98.2  | 98.5  | 92.2  | 79.4  | 73.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A)  |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 78.5   | 81.4  | 83.9  | 85.7  | 92.6  | 88.2  | 86.4  | 90.2  | 90.7  | 91.8  | 91.5* | 93.9   |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 94.0   | 94.4  | 93.4  | 91.5  | 88.4  | 84.6  | 79.9  | 75.4  | 69.3  | 65.5* | 66.4  | 71.5   |
| Octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A)        |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 86.6   | 94.6  | 94.3  | 97.3* | 98.7  | 93.8  | 81.5  | 73.4  |       |       |       |        |
| Third-octave band sound power level for $v_s = 10 \text{ ms}^{-1}$ in dB(A) |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 50     | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>   | 78.8   | 81.7  | 84.5  | 86.3  | 92.4  | 88.5  | 86.4  | 89.8  | 90.0* | 91.2  | 90.9* | 92.7*  |
| Frequency   | 800    | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>   | 93.3   | 93.9  | 93.3  | 91.5  | 88.8  | 85.2  | 80.7  | 76.5  | 71.9  | 70.4  | 68.5  | 71.8   |
| Octave band sound power level for $v_s = 10 \text{ ms}^{-1}$ in dB(A)       |        |       |       |       |       |       |       |       |       |       |       |        |
| Frequency   | 63     | 125   | 250   | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |       |       |        |
| L <sub>WA,P</sub>   | 87.0   | 94.6  | 93.7  | 96.5* | 98.3  | 94.0  | 82.5  | 75.2  |       |       |       |        |

This summary of the test report is valid only in combination with the certification of the manufacturer of 03/05/2010.

**These specifications do not replace the test report mentioned above (particularly for noise immission predictions).**

Observations: \* Difference between working and background noise < 6 dB, correction by 1.3 dB  
 \*\* Difference between working and background noise < 3 dB, values shall not be presented

/1/ Wind turbine generator systems – Part 11: Acoustic noise; measurement techniques (IEC 61400-11:2002 and A1:2006);  
 German version DIN EN 61400-11:2007

Measured by: KÖTTER Consulting Engineers  
 - Rheine -




Date: 08/02/2010

i. V. Dipl.-Ing. O. Bunk i. A. Dipl.-Ing. J. Weinheimer

# Sound Power Level of the ENERCON E-101 3.0 MW

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|                |                       |                  |  |
|----------------|-----------------------|------------------|--|
| Author/date:   | H.Shahriar /15.06.12  | Translator/date: | N.Nnnn / DD.MM.YY                          |
| Department:    | Sales                 | Revisor/date:    | H.Shahriar / 11.04.14                      |
| Approved/date: | M. Weidemann/11.04.14 | Reference:       | Sound Power Level E-101 NRWC<br>140415.doc |
| Released/date: | H.Shahriar /15.04.14  |                  |  |

The following represents the sound power level of the E-101 3.0 MW for the entire operational range of wind speeds in accordance with the measurement technique IEC 61 400 – 11:2002 and A1:2006.

### Sound Power Level (SPL) for the E-101 with 3.0 MW rated power

| Vs<br>in 10m height \ Hub Height | 99m                | 124m               | 135m               |
|----------------------------------|--------------------|--------------------|--------------------|
| <b>6 m/s</b>                     | <b>103.6 dB(A)</b> | <b>103.6 dB(A)</b> | <b>103.8 dB(A)</b> |
| <b>7 m/s</b>                     | <b>104.3 dB(A)</b> | <b>104.3 dB(A)</b> | <b>104.5 dB(A)</b> |
| <b>8 m/s</b>                     | <b>104.8 dB(A)</b> | <b>104.8 dB(A)</b> | <b>104.8 dB(A)</b> |
| <b>9 m/s</b>                     | <b>104.8 dB(A)</b> | <b>104.8 dB(A)</b> | <b>104.8 dB(A)</b> |
| <b>10 m/s</b>                    | <b>104.8 dB(A)</b> | <b>104.8 dB(A)</b> | <b>104.8 dB(A)</b> |
| <b>95% rated power</b>           | <b>104.8 dB(A)</b> | <b>104.8 dB(A)</b> | <b>104.8 dB(A)</b> |

Measurement results of the octave band corresponding to 95% or higher rated power are presented in the table below. ENERCON confirms the measurements values to be representative values of the E-101 3.0 MW noise levels.

| Frequency (Hz)                   | Octave band sound power level in dB(A) |      |      |       |       |       |       |       | dB(A) |
|----------------------------------|--|------|------|-------|-------|-------|-------|-------|-------|
|                                  | 63                                     | 125  | 250  | 500   | 1,000 | 2,000 | 4,000 | 8,000 |       |
| <b>E-101 3.0 MW<br/>@ 8.3m/s</b> | 86.3                                   | 91.6 | 98.6 | 100.8 | 98.3  | 92.8  | 85.9  | 73.3  | 104.8 |

1. The relation between the sound power level and the standardized wind speed  $V_s$  in 10 m height as shown above is valid on the premise of a logarithmic wind profile with a roughness length of 0.05m. The relation between the sound power level and the wind speed at hub heights applies for all hub heights. During the sound measurements the wind speeds are derived from the power output and the power curve of the WEC.
2. A tonal audibility of  $\Delta L_{a,k} \leq 2$  dB can be expected over the whole operational range and is valid in the near vicinity of the turbine according to IEC 61 400 -11 ed. 2.

|                |                       |                  |  |
|----------------|-----------------------|------------------|--|
| Author/date:   | H.Shahriar /15.06.12  | Translator/date: | N.Nnnn / DD.MM.YY                          |
| Department:    | Sales                 | Revisor/date:    | H.Shahriar / 11.04.14                      |
| Approved/date: | M. Weidemann/11.04.14 | Reference:       | Sound Power Level E-101 NRWC<br>140415.doc |
| Released/date: | H.Shahriar /15.04.14  |                  |  |

3. Sound power level values provided in the table are valid for the **Operational Mode I**. The respective power curve is the calculated power curve of the E-101 dated October 2009 (Rev 2.0).
4. Due to typical measurement uncertainties, if the sound power level is measured according to the accepted method, the measured values can differ from the values shown in this document in the range of +/- 1dB.

Accepted measurement method:

IEC 61400-11 ed.2 ("Wind turbine generator systems – Part 11: Acoustic noise measurement techniques; Second edition, 2002 – 12").

If the difference between total noise and background noise during a measurement is less than 6 dB, a higher uncertainty must be considered.

5. The sound power level of a wind turbine depends on several factors such as, but not limited to, regular maintenance and day-to-day operation in compliance with the manufacturer's operating instructions.

|                |                       |                  |  |
|----------------|-----------------------|------------------|--|
| Author/date:   | H.Shahriar /15.06.12  | Translator/date: | N.Nnnn / DD.MM.YY                          |
| Department:    | Sales                 | Revisor/date:    | H.Shahriar / 11.04.14                      |
| Approved/date: | M. Weidemann/11.04.14 | Reference:       | Sound Power Level E-101 NRWC<br>140415.doc |
| Released/date: | H.Shahriar /15.04.14  |                  |  |

## Summary of Test Report (Measured hub height of 99 m) /1/

Master Data Sheet "Geräusche" (Noise), in accordance with  
 "Technische Richtlinien für Windenergieanlagen, Teil 1: Bestimmung der Schallemissionswerte"  
 (Technical Guidelines for Wind Turbine Generators, Part 1: Determination of sound emission values)

Rev. 18 of February 1, 2008 (Editor: Fördergesellschaft Windenergie e.V. Stresemannplatz 4, D-24103 Kiel)

Extract of Test Report 213122-02.01 IEC  
 on noise emission of wind turbine generator of type E-101

| General Data   |   | Technical Data (manufacturer's specifications)                                |                            |
|--|---|---|----------------------------|
| Manufacturer of WTG:                                     | Enercon GmbH                                      | Rated power (generator):  | 3,050 (3,250) kW           |
| Serial number:   | 1010002   | Diameter of rotor:  | 101 m                      |
| Location of WTG (approx.):                               | 49733 Haren                                       | Hub height above ground:  | 99 m                       |
| Geographic co-ordinates:                                 | GK longitude: 25.76.214<br>GK latitude: 58.59.856 | Type of tower:  | conical tubular concrete   |
|  |   | Power control:  | Pitch                      |
| Complementary rotor data (manufacturer's specifications) |   | Complementary data of gear unit and generator (manufacturer's specifications) |                            |
| Manufacturer of rotor blade:                             | Enercon   | Manufacturer of gear unit:  | not applicable             |
| Type of rotor blade:                                     | E-101-1   | Type of gear unit:  | not applicable             |
| Blade setting angle:                                     | variable  | Manufacturer of generator:  | Enercon                    |
| Number of rotor blades:                                  | 3   | Type of generator:  | G-101/30-G2                |
| Rotor speed range:                                       | 5 to 14.7 rpm. (mode OM I)                        | Rated speed of generator:   | 5 to 14.7 rpm. (mode OM I) |

Calculated Performance Chart: Performance characteristic E101 3 MW OM I ; calculated by ENERCON (Rev. 1.0)

|  | Reference Point                             |                       | Noise emission parameters | Observations |
|--|---|-----------------------|---------------------------|--------------|
|  | standardized wind speed at a height of 10 m | true electrical power |                           |              |
| sound power level $L_{WA,P}$                       | 6 $ms^{-1}$                                 | 1,414 kW              | 103.6 dB(A)               |              |
|  | 7 $ms^{-1}$                                 | 2,077 kW              | 104.3 dB(A)               |              |
|  | 8 $ms^{-1}$                                 | 2,751 kW              | 104.8 dB(A)               |              |
|  | 9 $ms^{-1}$                                 | 2,987 kW              | 104.6 dB(A)               | (1)          |
|  | 10 $ms^{-1}$                                | 3,050 kW              | --                        | (2)          |
| tonal audibility $\Delta L_{a,k}$                  | 6 $ms^{-1}$                                 | 1,414 kW              | - 1.5 dB                  |              |
|  | 7 $ms^{-1}$                                 | 2,077 kW              | 0 dB                      |              |
|  | 8 $ms^{-1}$                                 | 2,751 kW              | 0 dB                      |              |
|  | 9 $ms^{-1}$                                 | 2,987 kW              | 0 dB                      | (1)          |
|  | 10 $ms^{-1}$                                | 3,050 kW              | --                        | (2)          |
| impulse adjustment for immediate vicinity $K_{IN}$ | 6 $ms^{-1}$                                 | 1,414 kW              | 0 dB                      |              |
|  | 7 $ms^{-1}$                                 | 2,077 kW              | 0 dB                      |              |
|  | 8 $ms^{-1}$                                 | 2,751 kW              | 0 dB                      |              |
|  | 9 $ms^{-1}$                                 | 2,987 kW              | 0 dB                      | (1)          |
|  | 10 $ms^{-1}$                                | 3,050 kW              | --                        | (2)          |

| Third-octave band sound power level for $v_s = 6 ms^{-1}$ in dB(A) |      |       |        |       |       |       |       |       |       |       |        |        |
|--|------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Frequency  | 50   | 63    | 80     | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500    | 630    |
| $L_{WA,P}$   | 78.3 | 81.8* | 83.0** | 84.2  | 89.6  | 85.7* | 89.2  | 92.7  | 94.1  | 94.6  | 95.1   | 94.9   |
| Frequency  | 800  | 1,000 | 1,250  | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000  | 10,000 |
| $L_{WA,P}$   | 93.5 | 91.6  | 90.0   | 89.0  | 85.4  | 84.1  | 82.3  | 79.3  | 74.8  | 67.8* | 64.7** | 65.3** |

| Octave band sound power level for $v_s = 6 ms^{-1}$ in dB(A) |       |      |      |      |       |       |       |       |  |
|--|-------|------|------|------|-------|-------|-------|-------|--|
| Frequency  | 63    | 125  | 250  | 500  | 1,000 | 2,000 | 4,000 | 8,000 |  |
| $L_{WA,P}$   | 85.6* | 91.9 | 97.2 | 99.6 | 96.7  | 91.5  | 84.6  | 70.3* |  |

| Third-octave band sound power level for $v_s = 7 ms^{-1}$ in dB(A) |      |       |       |       |       |       |       |       |       |       |        |        |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Frequency  | 50   | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500    | 630    |
| $L_{WA,P}$   | 78.9 | 83.3  | 84.0  | 84.9  | 88.2  | 86.4* | 89.6  | 94.7  | 94.9  | 95.4  | 95.8   | 95.5   |
| Frequency  | 800  | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000  | 10,000 |
| $L_{WA,P}$   | 94.0 | 92.0  | 90.4  | 89.3  | 86.1  | 84.7  | 82.9  | 79.9  | 74.4* | 68.4* | 64.6** | 62.7** |

| Octave band sound power level for $v_s = 7 ms^{-1}$ in dB(A) |      |      |      |       |       |       |       |        |  |
|--|------|------|------|-------|-------|-------|-------|--------|--|
| Frequency  | 63   | 125  | 250  | 500   | 1,000 | 2,000 | 4,000 | 8,000  |  |
| $L_{WA,P}$   | 87.3 | 91.5 | 98.4 | 100.3 | 97.1  | 91.9  | 85.0  | 71.5** |  |

| Third-octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A) |      |       |       |       |       |       |       |       |       |       |        |        |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Frequency  | 50   | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500    | 630    |
| L <sub>WA,P</sub>  | 82.1 | 82.8  | 84.4  | 88.4  | 86.8  | 90.1  | 94.8  | 95.0  | 95.6  | 96.3  | 96.2   | 82.1   |
| Frequency  | 800  | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000  | 10,000 |
| L <sub>WA,P</sub>  | 95.0 | 93.3  | 91.5  | 90.4  | 86.7  | 85.4  | 83.7  | 80.9  | 75.9  | 69.7* | 67.1** | 65.5** |

| Octave band sound power level for $v_s = 8 \text{ ms}^{-1}$ in dB(A) |      |      |      |       |       |       |       |        |
|--|------|------|------|-------|-------|-------|-------|--------|
| Frequency  | 63   | 125  | 250  | 500   | 1,000 | 2,000 | 4,000 | 8,000  |
| L <sub>WA,P</sub>  | 86.3 | 91.6 | 98.6 | 100.8 | 98.3  | 92.8  | 86.0  | 73.3** |

| Third-octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A) |      |       |       |       |       |       |       |       |       |       |       |        |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Frequency  | 50   | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630    |
| L <sub>WA,P</sub>  | 78.6 | 81.9  | 82.4* | 83.9  | 87.8  | 85.9* | 88.6  | 93.8  | 94.2  | 95.1  | 96.0  | 96.3   |
| Frequency  | 800  | 1,000 | 1,250 | 1,600 | 2,000 | 2,500 | 3,150 | 4,000 | 5,000 | 6,300 | 8,000 | 10,000 |
| L <sub>WA,P</sub>  | 95.4 | 93.8  | 92.3  | 91.0  | 87.4  | 86.0  | 84.1  | 81.1  | 76.7  | 71.7  | 68.4  | 66.8*  |

| Octave band sound power level for $v_s = 9 \text{ ms}^{-1}$ in dB(A) |      |      |      |       |       |       |       |       |
|--|------|------|------|-------|-------|-------|-------|-------|
| Frequency  | 63   | 125  | 250  | 500   | 1,000 | 2,000 | 4,000 | 8,000 |
| L <sub>WA,P</sub>  | 86.0 | 90.8 | 97.6 | 100.6 | 98.8  | 93.5  | 86.4  | 74.2  |

This summary of the test report is valid only in combination with the manufacturer's certificate dated 12/03/2013.

**These specifications do not replace the test report mentioned above (particularly for noise immission predictions).**

- Observations:
- (1) Maximum value of standardized wind speed during the WTG-operation measurement  $v_s = 8,9 \text{ m/s}$
  - (2) Due to weather conditions, no data available during WTG operation
- \* Difference between working and background noise < 6 dB, correction by 1.3 dB
- \*\* Difference between working and background noise < 3 dB, values shall not be presented

/1/ Wind turbine generator systems – Part 11: Acoustic noise; measurement techniques (IEC 61400-11:2002 and A1:2006); German version DIN EN 61400-11:2007

Measured by: KÖTTER Consulting Engineers  
- Rheine -



Dipl.-Ing. Oliver Bunk



Matthias Humpohl, B.Sc.

Date: 23/04/2013



### Vorläufiger Auszug aus dem Prüfbericht

Stamblatt "Geräusche", entsprechend den "Technischen Richtlinien für Windenergieanlagen, Teil 1: Bestimmung der Schallemissionswerte"

Rev. 18 vom 01. Februar 2008 (Herausgeber: Fördergesellschaft Windenergie e.V. Siresemanplatz 4, D-24103 Kiel)

Auszug aus dem Prüfbericht 213121-01.01  
zur Schallemission einer Windenergieanlage vom Typ E-101

| Allgemeine Angaben                             |                                | Technische Daten (Herstellerangaben)                           |               |
|--|--------------------------------|--|---------------|
| Anlagenhersteller                              | Enercon GmbH                   | Nennleistung (Generator):                                      | 3,0 (3,25) MW |
| Seriennummer:                                  | 1010002                        | Rotordurchmesser:  | 101 m         |
| WEA-Standort (ca.):                            | 49733 Haren                    | Nabenhöhe über Grund:  | 99 m          |
| Standortkoordinaten:                           | RW: 25.76.214<br>HW: 58.59.856 | Turmbauart:  | Beton         |
|  |                                | Leistungsregelung:   | Pitch         |
| Ergänzende Daten zum Rotor (Herstellerangaben) |                                | Ergänzende Daten zu Getriebe und Generator (Herstellerangaben) |               |
| Rotorblatthersteller                           | Enercon                        | Getriebehersteller   | entfällt      |
| Typenbezeichnung Blatt:                        | E-101-1                        | Typenbezeichnung Getriebe:                                     | entfällt      |
| Blatteinstellwinkel:                           | variabel                       | Generatorhersteller  | Enercon       |
| Rotorblattanzahl:                              | 3                              | Typenbezeichnung Generator:                                    | G-101/30-G2   |
| Rotordrehzahlbereich:                          | 5 - 14,7 U/min                 | Generatormendrehzahl:  | 14,7 U/min    |

Leistungskurve: Leistungskennlinie E101 3 MW OM I (berechnet) der Enercon GmbH zur E-101 vom 05.07.2012

|   | Referenzpunkt                              |                          | Schallemissions-Parameter | Bemerkungen |
|---|--|--------------------------|---------------------------|-------------|
|   | Normierte Windgeschwindigkeit in 10 m Höhe | Elektrische Wirkleistung |                           |             |
| Schalleistungs-Pegel<br>L <sub>WA,P</sub>         | 6 ms <sup>-1</sup>                         | 1.414 kW                 | 103,6 dB(A)               |             |
|   | 7 ms <sup>-1</sup>                         | 2.077 kW                 | 104,3 dB(A)               |             |
|   | 8 ms <sup>-1</sup>                         | 2.751 kW                 | 104,7 dB(A)               |             |
|   | 9 ms <sup>-1</sup>                         | 2.987 kW                 | 104,6 dB(A)               |             |
|   | 10 ms <sup>-1</sup>                        | 3.050 kW                 | -- dB(A)                  | (2)         |
|   | 8,3 ms <sup>-1</sup>                       | 2.850 kW                 | 104,8 dB(A)               | (1)         |
| Tonzuschlag für den Nahbereich K <sub>TN</sub>    | 6 ms <sup>-1</sup>                         | 1.414 kW                 | 0 dB bei 116 Hz           |             |
|   | 7 ms <sup>-1</sup>                         | 2.077 kW                 | 0 dB                      |             |
|   | 8 ms <sup>-1</sup>                         | 2.751 kW                 | 0 dB                      |             |
|   | 9 ms <sup>-1</sup>                         | 2.987 kW                 | 0 dB                      |             |
|   | 10 ms <sup>-1</sup>                        | 3.050 kW                 | -- dB                     | (2)         |
|   | 8,3 ms <sup>-1</sup>                       | 2.850 kW                 | 0 dB                      | (1)         |
| Impulszuschlag für den Nahbereich K <sub>IN</sub> | 6 ms <sup>-1</sup>                         | 1.414 kW                 | 0 dB                      |             |
|   | 7 ms <sup>-1</sup>                         | 2.077 kW                 | 0 dB                      |             |
|   | 8 ms <sup>-1</sup>                         | 2.751 kW                 | 0 dB                      |             |
|   | 9 ms <sup>-1</sup>                         | 2.987 kW                 | 0 dB                      |             |
|   | 10 ms <sup>-1</sup>                        | 3.050 kW                 | -- dB                     | (2)         |
|   | 8,3 ms <sup>-1</sup>                       | 2.850 kW                 | 0 dB                      | (1)         |

Terz-Schalleistungspegel für v<sub>s</sub> = 8,3 ms<sup>-1</sup> in dB(A) entsprechend dem maximalen Schalleistungspegel

| Frequenz              | 50   | 63    | 80    | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500    | 630    |
|-----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| L <sub>WA,P,max</sub> | 78,8 | 82,1  | 82,7  | 84,4  | 88,4  | 86,7  | 90,0  | 94,8  | 95,0  | 95,6  | 96,3   | 96,2   |
| Frequenz              | 800  | 1.000 | 1.250 | 1.600 | 2.000 | 2.500 | 3.150 | 4.000 | 5.000 | 6.300 | 8.000  | 10.000 |
| L <sub>WA,P,max</sub> | 95,0 | 93,3  | 91,5  | 90,4  | 86,6  | 85,4  | 83,7  | 80,8  | 75,8  | 69,7* | 67,1** | 65,5** |

Oktaf-Schalleistungspegel für v<sub>s</sub> = 8,3 ms<sup>-1</sup> in dB(A) entsprechend dem maximalen Schalleistungspegel

| Frequenz              | 63   | 125  | 250  | 500   | 1.000 | 2.000 | 4.000 | 8.000  |
|-----------------------|------|------|------|-------|-------|-------|-------|--------|
| L <sub>WA,P,max</sub> | 86,3 | 91,6 | 98,6 | 100,8 | 98,3  | 92,8  | 85,9  | 73,3** |

Dieser Auszug aus dem Prüfbericht gilt nur in Verbindung mit der Herstellerbescheinigung vom 13.03.2013.

Die Angaben ersetzen nicht den o. g. Prüfbericht (insbesondere bei Schallimmissionsprognosen).

- Bemerkungen:
- (1) Die normierte Windgeschwindigkeit von v<sub>s</sub> = 8,3 ms<sup>-1</sup> entspricht 95 % der Nennleistung.
  - (2) Witterungsbedingt keine Daten vorhanden
  - \* Abstand zwischen Anlagengeräusch und Fremdgeräusch < 6 dB, Pegelkorrektur um 1,3 dB
  - \*\* Abstand zwischen Anlagengeräusch und Fremdgeräusch < 3 dB, keine Pegelkorrektur

Gemessen durch: KÖTTER Consulting Engineers GmbH & Co. KG

Datum: 13.01.2013

i. V. Dipl.-Ing. Oliver Bunk

i. A. Matthias Humpohl, B. Sc.

## Powell, Chris

---

**From:** Miller, Denton (ENE) <Denton.Miller@ontario.ca>  
**Sent:** Thursday, April 24, 2014 12:03 PM  
**To:** Powell, Chris; Raetsen, Sarah (ENE)  
**Cc:** Darren Croghan; Merv Croghan; Shiloh Berriman (sberriman@nrwc.ca); Leggett, Al; Ganesh, Kana; Hung, Timothy  
**Subject:** RE: NRWC Info Request - 2e , 8 and 9 MOE ref file # 1175-972NB9

Chris

Yes, the information provided previously has addressed our concerns.

Thank you

*Regards*  
*Denton Miller*  
*416-314-8310*

---

**From:** Powell, Chris [mailto:Chris.Powell@stantec.com]  
**Sent:** April 24, 2014 12:00 PM  
**To:** Miller, Denton (ENE); Raetsen, Sarah (ENE)  
**Cc:** Darren Croghan; Merv Croghan; Shiloh Berriman (sberriman@nrwc.ca); Leggett, Al; Ganesh, Kana; Hung, Timothy  
**Subject:** RE: NRWC Info Request - 2e , 8 and 9 MOE ref file # 1175-972NB9

Denton,

Thank you for the comments and we trust the information we provided satisfies your concerns. We will work to get the report updated as soon as possible to provide to you on or before May 9, 2014.

Sincerely,

Chris

---

**From:** Miller, Denton (ENE) [mailto:Denton.Miller@ontario.ca]  
**Sent:** Thursday, April 24, 2014 11:56 AM  
**To:** Powell, Chris; Raetsen, Sarah (ENE)  
**Cc:** Darren Croghan; Merv Croghan; Shiloh Berriman (sberriman@nrwc.ca); Leggett, Al; Ganesh, Kana; Hung, Timothy  
**Subject:** RE: NRWC Info Request - 2e , 8 and 9 MOE ref file # 1175-972NB9

Hello Chris

Thank you for your response.

Moving forward please update the noise report as noted below:

### 1. Info request 2: Sound Power Levels

- Include the turbine data sheets provided by Enercon , that address the E-101 and E-82 turbines specifications ( April 16,2014 email)

2. Add an appendix to the report that summarize :

**i) Info request 3: Eric Gillespie Letters**

- summarize the efforts made to date to address the concerns raised by Eric Gillespie (include your Jan 31, 2014 letter)

**ii) Info request 4: Receptor 1750**

- summarize the issues associated with receptor 1750. Also note the resolution. ( your Feb 12, 2014 e-mail)
- Also update the noise report accordingly (vacant lot changed to existing lot)

**iii) Info request 5: Receptor 3583**

- summarize the issues associated with receptor 3583. ( your Feb 13, 2014 and April 17 , 2014 e-mails)

**iv) Info request 6: Receptors 735,794, 1762, 582, 674, 148**

- summarize the issues associated with the receptors identified above ( your Mar 6, 2014 e-mail)
- Also update the noise report accordingly (vacant lots changed to existing lot)
- Include the new point of reception, that is in close proximity to O\_1958, in the POR Results Summary Table ( Appendix C)

**v) Info request 7: Alleged receptor between receptors 1481 and 1598**

- summarize the issues associated with the receptors identified above ( your Mar 13, 2014 e-mail)

**vi) Info request 8: Munich Higher Regional Court's decision**

- summarize the issues and Enercon's opinion associated with the Munich Higher Regional Court's decision ( your April 16, 2014 e-mail)

**vii) Info request 9: Rosa Flora Turbine**

- summarize the issues associated with the assessment of the turbine and provide the updated Cadna files ( your April 16, 2014 e-mail)

**viii) Info request 2: Sound Power Levels**

- summarize the issues associated with the different sound power level datasheets for the subject turbines ( your April 16, 2014 e-mail)

3. Please submit a signed hard copy of the report and a PDF version of the report. (Please also provide a word document with the track changes noted for the first seven sections of the report.)

4. Please submit the updated report by **May 9, 2014**.

*Regards*  
*Denton Miller*  
*416-314-8310*

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]  
**Sent:** April 16, 2014 9:46 AM  
**To:** Miller, Denton (ENE); Raetsen, Sarah (ENE)  
**Cc:** Darren Croghan; Merv Croghan; Shiloh Berriman ([sberriman@nrwc.ca](mailto:sberriman@nrwc.ca)); Leggett, Al; Ganesh, Kana; Hung, Timothy; [Hassan.Shahriar@enercon.de](mailto:Hassan.Shahriar@enercon.de)  
**Subject:** FW: Niagara Region Wind Farm Info Request - 2e , 8 and 9 MOE ref file # 1175-972NB9  
**Importance:** High

Denton,

In response to your email dated April 3, 2014, and further to our conference calls over this past week, we provide the following information to address your comments:

1. Info Request 2e - Sound Power Levels of the Subject Turbines

Based on follow-up discussions with Enercon, a more definitive statement confirming the use of the 104.8 dBA noise data for the E101 turbines proposed for the NRWC Project has been obtained from Enercon. Attached to this email are the following documents confirming the use of the appropriate data in the noise assessment report for this Project:

a. Letter from Enercon entitled *Sound Power Level (SPL) documents of the ENERCON Wind Energy Converters (WECs) E-101 3.0MW and the E-82 2.3MW for Niagara Region Wind Corporation (NRWC)* dated April 15, 2014, and corresponding attachments.

- 1) Sound Power Level E-101 NRWC dated April 15, 2014
- 2) KÖTTER measurement excerpts dated April 23, 2013 and March 13, 2013
- 3) Sound Power Level E-82 NRWC dated April 15, 2014
- 4) KÖTTER measurement excerpt dated February 8, 2010

This letter provides the additional confirmation requested in your last email and greater certainty with respect to the sound power level information for the turbines being proposed for the NRWC Project.

2. Info Request 8 – Munich Higher Regional Court's Decision pertinent to impulsive sound from Enercon E-82 wind turbines

The following comments have been provided by Enercon in response to MOE's request for information on this issue:

*The article referenced is in regard to a claim and subsequent ruling which has been made against ENERCON regarding the impulsivity of E-82 turbines in one of its wind parks near Munich, Germany.*

*ENERCON is in full disagreement with the ruling and are launching a full appeal against the region. In response, as per the official comments from ENERCON GmbH made on this issue.*

*"for us, this ruling is completely incomprehensible", says Felix Rehwald, Spokesperson for Europe's largest wind turbine manufacturer Enercon.*

*He continues to comment that ENERCON manufactures, sells and guarantees its turbines worldwide against tonality (in accordance with the IEC standards) and furthermore that Enercon's own specialists in sound power*

*have yet to yield any measurements which would indicate impulsivity of the turbines and as such, Enercon is launching counter-proceedings in the way of an appeal against the ruling.*

*The court case in Germany is not related to the NRWC project from a technical and environmental permitting perspective.*

3. Info Request 9 – Cadna files for Existing Rosa Flora Turbine

In regards to the questions raised pertaining to the Cadna files, we will circulate the correct Cadna files to the MOE under a separate email, which will be available via an FTP site for your review. The Cadna file will illustrate the correct sound power level (103.5 dBA) for the Rosa Flora Turbine, as it was used in the noise model to generate the results in the Noise Assessment Report dated September 2013.

The Cadna file previously provided on March 17, 2014 identifying a sound power level for this turbine of 101 dBA (correction factor of -2.5 dBA) was not used in the modelling exercise for this Project.

The Rosa Flora turbine is a 0.65 MW turbine located approximately 3,500 m from the nearest NRWC turbine. As per the Noise Assessment Report, the maximum sound power level for this turbine used in the model was 103.5 dBA (Section 3.3, page 3.9), which was rounded to 104 in Table 3.8. This is further confirmed in the sample calculation and Cadna/A input/outputs table provided in Appendix E and in the adjusted emission level for the Rosa Flora turbine identified in Table F1 of Appendix F of the Noise Assessment Report (Stantec, September 2014).

Based on the above, we trust that the above information is sufficient to address MOE's concerns as expressed in your email dated April 3, 2014.

If you have any questions, please do not hesitate to call.

Sincerely,

Chris

**Chris Powell, M.A.**

Project Manager, Environmental Planner  
Stantec  
49 Frederick Street Kitchener ON N2H 6M7  
Phone: (519) 585-7416  
Cell: (519) 501-2368  
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Chris.Powell@stantec.com



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**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Thursday, April 03, 2014 1:40 PM  
**To:** Kossowski, Julia  
**Cc:** Raetsen, Sarah (ENE); Powell, Chris; Ganesh, Kana; Leggett, Al; [darrenc@nrwc.ca](mailto:darrenc@nrwc.ca); Shiloh Berriman; [mervcroghan@nrwc.ca](mailto:mervcroghan@nrwc.ca); Hung, Timothy  
**Subject:** FW: Niagara Region Wind Farm Info Request - 2e , 8 and 9 MOE ref file # 1175-972NB9

Hi Chris / Julia



Below are:

1. Additional comments to info request 2 ( Sound Power Levels of the subject turbines) ,
2. Two new information requests ( 8 & 9), and
3. A summary of the information requests to date ( attached).

---

### 1. Additional comments to Info Request 2

With respect to Enercon's attached document, I still have concerns with their specification of the applicable sound power level {RE: Section 6.2.2. of Noise Guidelines for Wind Farms}.

Specifically the use of the word suggests is problematic. ( reference copied below) .

The 104.8 dBA as presented in the Kotter document dated April 23, 2013 coincides with the Sound Power Level guarantee (95% rated power or higher) provided by ENERCON to the Niagara Region Wind Corporation. As such, ENERCON **suggests** that this document is more applicable to the Niagara Region Wind Corporation facility as opposed to the estimated 106 dBA presented in the ENERCON document.

Consequently, in the absence of a definitive statement from Enercon , I will be contacting you next week to discuss how my review will address this issue.

---

### 2. Info Request 8

Please ask Enercon to comment on the following court decision identified via an EBR comment:

*The Munich Higher Regional Court's decision pertinent to impulsive sound from Enercon E-82 wind turbines in a wind farm located in Rennertshofen in the district of Neuburg-Schrobenhausen. Judgment OLG München 14.08.2012*

Specifically;

1. What was the issue?
2. What was the outcome? and
3. How is this issue related to the turbines proposed in the NRWC

Please provide comments by April 17, 2014.

---

### 3. Info Request 9:

The Cadna files note the following sound power level (101.0 dBA) for Rosa Flora Turbine:





The Noise Report notes the following sound power level (104 dBA) for the same turbine .

**Table 3.8 Assessed Noise Sources Associated with Adjacent or Proposed Wind Farms within 5 km**

| Source ID | Source Description | Sound Power Level [dBA] | UTM Coordinates |         |       |
|-----------|--------------------|-------------------------|-----------------|---------|-------|
|           |                    |                         | X [m]           | Y [m]   | Z [m] |
| RF        | Rosa Flora Turbine | 104                     | 615270          | 4756417 | 75    |

Please comment on the oversight between both sources of data, and the potential impact on the calculated sound pressure levels.

Please provide comments by April 17, 2014.

*Regards*  
*Denton Miller*  
 416-314-8310

---

**From:** Kossowski, Julia [<mailto:Julia.Kossowski@stantec.com>]  
**Sent:** March 25, 2014 4:35 PM  
**To:** Miller, Denton (ENE)  
**Cc:** Raetsen, Sarah (ENE); Powell, Chris; Ganesh, Kana; Leggett, Al; [darrenc@nrwc.ca](mailto:darrenc@nrwc.ca); Shiloh Berriman ([sberriman@nrwc.ca](mailto:sberriman@nrwc.ca)); [mervcroghan@nrwc.ca](mailto:mervcroghan@nrwc.ca); Hung, Timothy  
**Subject:** FW: Niagara Region Wind Farm Info Request -2e MOE ref file # 1175-972NB9

Hello Denton,

On behalf of Chris Powell and NRWC, please find attached ENERCON's request to your email below dated March 17, 2014.

Please contact us if you require additional information.

Kind Regards,  
Julia

**Julia Kossowski, P. Eng.**  
Project Manager - Power  
Stantec  
49 Frederick Street  
Kitchener ON N2H 6M7  
Ph: (519) 569-4338  
Fx: (519) 579-4239  
Cell: (226) 989-5259  
[julia.kossowski@stantec.com](mailto:julia.kossowski@stantec.com)

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---

**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Monday, March 17, 2014 02:37 PM  
**To:** Powell, Chris; Raetsen, Sarah (ENE) <[Sarah.Raetsen@ontario.ca](mailto:Sarah.Raetsen@ontario.ca)>; Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca' <[darrenc@nrwc.ca](mailto:darrenc@nrwc.ca)>; 'sberriman@nrwc.ca' <[sberriman@nrwc.ca](mailto:sberriman@nrwc.ca)>; 'mervcroghan@nrwc.ca' <[mervcroghan@nrwc.ca](mailto:mervcroghan@nrwc.ca)>  
**Subject:** RE: Niagara Region Wind Farm Info Request -2e MOE ref file # 1175-972NB9

Thank you for your response Chris.

**Summary :**

ENERCON considers the measurements values to be satisfactory representative values of the E-101 3,050 kW and E-82 E2 2,300 kW noise levels.

| Frequency (Hz)           | Octave band sound power level in dB(A) |      |      |       |       |       |       |       |
|--------------------------|--|------|------|-------|-------|-------|-------|-------|
|                          | 63                                     | 125  | 250  | 500   | 1,000 | 2,000 | 4,000 | 8,000 |
| E-101 3,050 kW @ 8.3m/s  | 86.3                                   | 91.6 | 98.6 | 100.8 | 98.3  | 92.8  | 85.9  | 73.3  |
| E-82 E2 2,300 kW @ 9 m/s | 86.6                                   | 94.6 | 94.3 | 97.3  | 98.7  | 93.8  | 81.5  | 73.4  |

**ISSUE:**

Unfortunately the response from Enercon (satisfactory representative) is not definitive enough for our review purposes. It is requested that Enercon explain why they have published at least two different data sheets for the

same equipment ( E-101), that have different values for the 95% rated capacity sound power levels (106 dBA and 104.8 dBA)?

It is also requested that Enercon explain why the above sound power levels for the E-101 are applicable to the Niagara Region Wind Corporation facility as opposed to the 106 dBA data that was referenced in a previous e-mail ?

Please provide a response by **March 25, 2014**.

*Regards*  
*Denton Miller*  
*416-314-8310*

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]  
**Sent:** March 17, 2014 1:25 PM  
**To:** Miller, Denton (ENE); Raetsen, Sarah (ENE); Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca'; 'sberriman@nrwc.ca'; 'mervcroghan@nrwc.ca'  
**Subject:** RE: Niagara Region Wind Farm Info Request -2d MOE ref file # 1175-972NB9

Denton,

The attached information has been provided by Enercon in response to your email dated March 12, 2014. The values contained in the attachment provide the A-weighted values for the E-101 and E-82 turbines to 95% rated capacity, while the values included in Table 3.2 of the Noise Assessment Report (as attached to your email) are linear weighted values. The A-weighted values provided by Enercon in the attached table are consistent with the information provided previously by Enercon to Stantec for use in the noise model. These values were converted to linear weighted values following standard conversion methods and incorporated accordingly into the noise model and Noise Assessment Report.

In regards to your second comment, the requested Cadna-A file has been provided under a separate email earlier today for your review.

We trust that this information will be sufficient. If you have any further questions, please do not hesitate to ask.

Sincerely,

Chris

**Chris Powell, M.A.**  
Project Manager, Environmental Planner  
Associate, Environmental Services  
Stantec Consulting Ltd.

Office: (519) 585-7416  
Cell: (519) 501-2368  
[chris.powell@stantec.com](mailto:chris.powell@stantec.com)

---

**From:** Miller, Denton (ENE) [[Denton.Miller@ontario.ca](mailto:Denton.Miller@ontario.ca)]  
**Sent:** March 12, 2014 12:22 PM  
**To:** Powell, Chris; Raetsen, Sarah (ENE); Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca'; 'sberriman@nrwc.ca'; 'mervcroghan@nrwc.ca'  
**Subject:** RE: Niagara Region Wind Farm Info Request -2d MOE ref file # 1175-972NB9

Thank you for your response Chris

**Summary:**

In accordance with Section 6.2.2 of the Noise Guidelines for Wind Farms your firm was requested to provide the sound power levels, frequency spectra in octave bands (63 to 8000 Hz), and tonality at integer wind speeds from 6 to 10 m/s for the subject wind turbines. ( E-82 & E-101)

Your firm responded (para-phrased) that this information is not necessary, as your analysis based on the 95% rated capacity sound power levels of the turbines. (This approach is acceptable to MOE.)

Enercon further notes (Mar 7, 2014 e-mail) that the SPL of the E-82 and the E-101 Wind Energy Converters (WECs) do not exceed beyond the values at 95% rated capacity for hub heights specified in its [Sound Power Level documents](#).

**Issue:**

There are several different Enercon documents noting different values for the 95% rated capacity sound power levels. For example:

1. There is a April 2013 Enercon document (attached) noting that the 95% rated capacity sound power level for the E-101 3050 kW turbine is **106 dBA**. ( NRWC report states this value to be **104.8 dBA**) {it is acknowledged that the ratings differ by 50 kW, Niagara turbines are smaller}
2. There is a April 2010 Enercon document (attached) noting that the 95% rated capacity sound power level for the E-82 2000 kW turbine is 103.5 dBA; (NRWC report states this value to be 103.3 dBA) {it is acknowledged that the ratings differ by 300 kW – Niagara turbines are larger}

**Requests:**

1. Please provide by **March 20, 2014**, a written statement from Enercon confirming that the values noted in Table 3.2 of your Report ( Sept 30, 2013) are accurate. (For reference the table is copied below.)

**Table 3.2 Highest Wind Turbine Sound Emission Corresponding to 95% or above Rated Electrical Output Power**

| Description                         | Octave Band Sound Power Level (dB ref. 10-12 Watts) |       |       |       |      |      |      |      |                 |
|-------------------------------------|---|-------|-------|-------|------|------|------|------|-----------------|
|                                     | 63  | 125   | 250   | 500   | 1k   | 2k   | 4k   | 8k   | dB/dBA          |
| ENERCON model E101 model at 8.3 m/s | 112.5   | 107.7 | 107.2 | 104.0 | 98.3 | 91.6 | 85   | 74.4 | 113.9/<br>104.8 |
| ENERCON model E82 model at 9 m/s    | 112.8   | 110.8 | 103   | 100.5 | 98.7 | 92.6 | 80.5 | 74.5 | 115.5/<br>103.3 |

2. Please also forward the cadna A file (s) to this office.

*Regards*  
*Denton Miller*  
*416-314-8310*

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]  
**Sent:** March 7, 2014 4:17 PM  
**To:** Miller, Denton (ENE); Raetsen, Sarah (ENE); Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca'; 'sberriman@nrwc.ca'; 'mervcroghan@nrwc.ca'  
**Subject:** RE: Niagara Region Wind Farm Info Request -2c MOE ref file # 1175-972NB9

Denton,

In preparing the Noise Assessment Report, Stantec and NRWC understood this issue and the requirements outlined in the MOE Noise Guidelines for Wind Farms. This issue was raised by NRWC and discussed during the project design stage with the manufacturer, who confirmed that despite the change in power with wind speed and height their guaranteed maximum sound power at rated capacity would not change for the proposed turbine models, and that tonality would not result at these higher turbine heights or wind speeds. This was confirmed and guaranteed through a separate letter from Enercon, which has been provided to the MOE as part of the Noise Assessment Report.

Following your email, we have discussed this further with Enercon and they have prepared additional information to address your specific comment with respect to hub height and tonality (see attached). In the supplemental information, they have reconfirmed the following:

1. that the sound power levels of the E82 and E101 turbines do not exceed beyond the values at 95% rated capacity,
2. that the turbines shall not exceed the guaranteed maximum sound power levels for hub heights specified; and
3. that the tonal audibility shall be equal to or less than 2 dB over the whole operational range, including at wind speeds of 10m/s.

Stantec confirms that the analysis provided in the Noise Assessment Report considered the spectral sound power data (i.e. frequency based data) based on the IEC test and overall sound power level corresponding to 95% rated electrical output power as guaranteed by the manufacturer (Enercon). The manufacturer has confirmed that the sound power level at 95% rated capacity is independent of height and wind speeds and has addressed the tonality concerns in a separate letter attached.

The MOE raised similar concerns during the screening of REA application for completeness and we provided additional discussion and rationale at that time. We understood that this additional information was sufficient to address your concern, but trust that the supplemental information now provided by Enercon further supports the completion of your technical review.

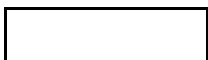
If you require further information in this regard, we request that a meeting be held to review and discuss this issue with our noise experts as soon as possible.

Sincerely,

Chris

**Chris Powell, M.A.**

Project Manager, Environmental Planner  
Stantec  
49 Frederick Street Kitchener ON N2H 6M7  
Phone: (519) 585-7416  
Cell: (519) 501-2368  
Fax: (519) 579-6733  
Chris.Powell@stantec.com



 Please consider the environment before printing this email.

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**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Friday, February 21, 2014 12:39 PM  
**To:** Powell, Chris; Raetsen, Sarah (ENE); Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca'; 'sberriman@nrwc.ca'; 'mervcroghan@nrwc.ca'  
**Subject:** RE: Niagara Region Wind Farm Info Request -2c MOE ref file # 1175-972NB9

Hello Chris

I have yet to receive a response to the e-mails I sent to your office on January 24, and 30 , 2014 regarding the sound power levels of the proposed turbines (questions 2 & 3 in the January 24, 2014 email to your office; copied below).

Please provide a response by **March 7, 2014**. If your firm is unable to provide a response by this date I will have to stop the clock on our service guarantee time.

If you have any questions , please feel free to contact me.

PS:  
I also have additional questions via EBR comments pertinent to vacant lots which I will send to you in a separate e-mail later today.

*Regards*  
*Denton Miller*  
*416-314-8310*

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]  
**Sent:** January 30, 2014 8:29 AM  
**To:** Miller, Denton (ENE); Raetsen, Sarah (ENE); Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; 'darrenc@nrwc.ca'; 'sberriman@nrwc.ca'; 'mervcroghan@nrwc.ca'  
**Subject:** Re: Niagara Region Wind Farm Information request -2 MOE ref file # 1175-972NB9

Ok. I'll follow up with Kana and we will get back to you shortly.

Chris  
Chris Powell, M.A.  
Project Manager  
Environmental Planner  
Stantec  
Cell: (519) 501-2368

Sent from my Blackberry

---

**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Thursday, January 30, 2014 08:26 AM  
**To:** Powell, Chris; Raetsen, Sarah (ENE) <[Sarah.Raetsen@ontario.ca](mailto:Sarah.Raetsen@ontario.ca)>; Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; Darren Croghan <[darrenc@nrwc.ca](mailto:darrenc@nrwc.ca)>; Shiloh Berriman ([sberriman@nrwc.ca](mailto:sberriman@nrwc.ca)) <[sberriman@nrwc.ca](mailto:sberriman@nrwc.ca)>; Merv Croghan <[mervcroghan@nrwc.ca](mailto:mervcroghan@nrwc.ca)>



**Subject:** RE: Niagara Region Wind Farm Information request -2 MOE ref file # 1175-972NB9

Hello Chris.

Thank you for your response to my questions noted in your previous e-mail (January 29, 2014 10:40 AM).

The e-mail has answered question # 1 (RE: Participating Receptors), however questions 2 and 3 still require attention.

Below is additional rationale as to why questions # 2 and 3 will require further clarification from your firm:

**Rationale:**

Documents prepared by the International Electrotechnical Commission note that the apparent sound power level is correlated to the acoustic reference wind speed and not to the wind speed at hub height. An increase in hub height will increase the apparent sound power level and might have an unpredictable effect on tonality.

The following examples from Enercon publications note this phenomenon:

Example 1: Sound Power Level for the E-82 with 2300 kW rated power

| in relation to wind speed at 10 m height |             |             |             |             |
|--|-------------|-------------|-------------|-------------|
| hub height<br>$V_s$<br>in 10 m height    | 78 m        | 85 m        | 98 m        | 108 m       |
| 5 m/s                                    | 96,3 dB(A)  | 96.6 dB(A)  | 97.2 dB(A)  | 97.5 dB(A)  |
| 6 m/s                                    | 100.7 dB(A) | 101.0 dB(A) | 101.6 dB(A) | 101.9 dB(A) |
| 7 m/s                                    | 103.3 dB(A) | 103.5 dB(A) | 103.6 dB(A) | 103.6 dB(A) |
| 8 m/s                                    | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) |
| 9 m/s                                    | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) |
| 10 m/s                                   | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) |
| 95% rated power                          | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) | 104.0 dB(A) |

Example 2:

## Sound Power Level for the E-33 with 330 kW rated power

| in relation to standardized wind speed $v_s$ at 10 m height |             |             |             |             |  |
|---|-------------|-------------|-------------|-------------|--|
| hub height<br>$v_s$<br>at 10 m height                       | 37 m        | 44 m        | 49 m        | 50 m        |  |
| 5 m/s   | 90.9 dB(A)  | 91.0 dB(A)  | 91.3 dB(A)  | 91.3 dB(A)  |  |
| 6 m/s   | 95.1 dB(A)  | 96.0 dB(A)  | 96.5 dB(A)  | 96.5 dB(A)  |  |
| 7 m/s   | 98.6 dB(A)  | 98.9 dB(A)  | 99.0 dB(A)  | 99.0 dB(A)  |  |
| 8 m/s   | 99.7 dB(A)  | 99.8 dB(A)  | 99.9 dB(A)  | 99.9 dB(A)  |  |
| 9 m/s   | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) |  |
| 10 m/s  | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) |  |
| 95% rated power   | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) | 100.0 dB(A) |  |

Therefore in accordance with Section 6.2.2 of the Noise Guidelines for Wind Farms please provide the sound power levels, frequency spectra in octave bands (63 to 8000 Hz), and tonality at integer wind speeds from 6 to 10 m/s for the subject wind turbines.

I have another question which I send in a separate e-mail later today.

*Regards*  
Denton Miller  
416-314-8310

---

**From:** Powell, Chris [<mailto:Chris.Powell@stantec.com>]  
**Sent:** January 29, 2014 10:40 AM  
**To:** Miller, Denton (ENE); Raetsen, Sarah (ENE); Hung, Timothy  
**Cc:** Ganesh, Kana; Leggett, Al; Darren Croghan; Shiloh Berriman ([sberriman@nrwc.ca](mailto:sberriman@nrwc.ca)); Merv Croghan  
**Subject:** RE: Niagara Region Wind Farm Information request MOE ref file # 1175-972NB9

Denton,

In response to your email from Friday, January 24, 2014, Kana has provided the justification you are seeking to address your specific questions. Based on his input, we offer the following responses:

### Question 1: Participating Receptors

All of the participating receptors will include project infrastructure and adhere to the definition provided in O. Reg. 359/09 and include a project component.

The REA application considered 80 turbines during the project planning and design stages, including the completion of the various technical reports. The 80 turbine layout is compliant with the noise requirements of the regulation. In order to meet the FIT contract requirements of 230 MW, only 77 of these 80 turbines are to be built (each rated at 3 MW - one or more to be de-rated to satisfy the 230MW requirement).

The specific turbines to be constructed will depend on the detailed engineering and wind resourcing studies to be completed. The decision to drop a turbine depends highly on wind power, and it is likely that a turbine may be dropped from a cluster of turbines where more than one turbine is located within the same property (due to wind resources). Based on that understanding, all participating receptors will continue to fit the definition of participating receptors.

In the event that a turbine is dropped from a property with only one turbine, the design of the wind farm will ensure that project infrastructure remains on that property to ensure its compliance as a participating receptor, in the event that it violates the 40.0 dBA noise threshold, as defined in the regulation.

Question 2: Re Table 3.1 ; Sound Power Levels for the E-101

In preparing the noise model and assessment, Stantec concluded the data is valid based on the following:

- a. Stantec used sound power levels in the analysis, which is a parameter independent of height of the source;
- b. The manufacturer has guaranteed /confirmed to NRWC that their machine will meet the sound power requirements as specified in the test sheet (included with the report); and
- c. IEC 61400-11 (i.e. international standard CAN/CSA-C61400-11-07) uses normalized height so that measurements are independent of height and terrain (i.e. location, where it was measured).

As such, the manufacturer's data values used in the noise model for predicting sound power levels at the various receptors are valid for the E-101 turbines.

Question 3: Re Table 3.1 ; Sound Power Levels for the E-82

Similar to the above rationale, the manufacturer's data values used in the noise model for predicting sound power levels at the various receptors are valid for the E-82 turbines.

We trust that this information is of assistance. If you have any further questions, please do not hesitate to give Kana or myself a call.

Sincerely,

Chris

**Chris Powell, M.A.**

Project Manager, Environmental Planner  
Stantec  
49 Frederick Street Kitchener ON N2H 6M7  
Phone: (519) 585-7416  
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**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]  
**Sent:** Friday, January 24, 2014 3:15 PM  
**To:** Ganesh, Kana; Hung, Timothy; Raetsen, Sarah (ENE)  
**Cc:** Raetsen, Sarah (ENE); Powell, Chris; Leggett, Al  
**Subject:** RE: Niagara Region Wind Farm Information request MOE ref file # 1175-972NB9

Hello Kana

He have started review of the subject application and to date have the following preliminary questions.

### **Question 1: Participating Receptors**

#### **Background:**

Section 1 of the report notes the following:

The facility is comprised of 80 wind turbine. However, only 77 of the wind turbines will be constructed.

Section 4.2 of the report notes the following:

There are a total of 96 Participating Receptors.

#### **Issue:**

Please confirm that the participating Noise Receptors adhere with the definition in Section 1(6) of O. Reg. 359/09. Specifically will all participating receptors have infrastructure located on them?

If this is not the case then some of these participating receptors must be considered as points of reception and the analysis in the report updated to address these points of reception.

---

### **Question 2: Re Table 3.1 ; Sound Power Levels for the E-101**

It is noted that the data in Appendix D (Enercon E-101) is for a turbine with a hub height of **99 m**. The proposal ( Sept 30, 2013 report ) notes the turbine nacelles will be at **124 m** and/or **135 m** height. Please comment on the implication of using the 99 m data in your analysis to represent turbines at **124 m** and/or **135 m** height .

---

### **Question 3: Re Table 3.1 ; Sound Power Levels for the E-82**

It is noted that the data in Appendix D (Enercon E-82) is for a turbine with a hub height of **108 m**. The proposal ( Sept 30, 2013 report ) notes the turbine nacelles will be at **135 m** height. Please comment on the implication of using the 108 m data in your analysis to represent turbines at **135 m** height .

Thank you.

*Regards*  
*Denton Miller*

Denton Miller | Senior Review Engineer | Team 5 | Environmental Approvals Branch | Ministry of the Environment  
2 St. Clair Ave W. 12a Floor Toronto, Ontario, M4V 1L5 | Phone: 416-314-8310 | [Denton.Miller@ontario.ca](mailto:Denton.Miller@ontario.ca)

---

**From:** Ganesh, Kana [<mailto:Kana.Ananthganeshan@stantec.com>]

**Sent:** January 7, 2014 4:18 PM

**To:** Miller, Denton (ENE); Hung, Timothy

**Cc:** Raetsen, Sarah (ENE); Powell, Chris; Leggett, Al

**Subject:** RE: Niagara Region Wind Farm Information request MOE ref file # 1175-972NB9

Thanks for the email Denton and happy New Year to you.

Please find attached the Tables; I have some of them in Word format (readily available) and some in Excel format.

Please let me know word format is acceptable for your purpose.

Best regards

**Kana Ganesh, PhD., P.Eng**

Sr. Acoustics Noise and Vibration Engineer

300 - 675 Cochrane Drive West Tower Markham ON L3R 0B8

Phone: 905-415-6332

Fax: 905-474-9889

kana.ganesh@stantec.com



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**From:** Miller, Denton (ENE) [<mailto:Denton.Miller@ontario.ca>]

**Sent:** Tuesday, January 07, 2014 3:27 PM

**To:** Ganesh, Kana; Hung, Timothy

**Cc:** Raetsen, Sarah (ENE); Powell, Chris

**Subject:** Niagara Region Wind Farm Information request MOE ref file # 1175-972NB9

Hello Kana / Timothy

I am the review engineer assigned to this file. To facilitate my review , please forward excel copies of the following tables in the noise assessment report.

Tables:

|     |     |     |     |
|-----|-----|-----|-----|
| 2.1 | 3.3 | 3.6 | 4.1 |
| 3.1 | 3.4 | 3.7 | 6.2 |
| 3.2 | 3.5 | 3.8 | 6.3 |

F.5 Appendix E

F.6 Barrier Co-ordinates

your file # 160950269 dated September 30, 2013.

Thank you

## APPLICATION SUMMARY

|                         |  |                 |                    |
|-------------------------|--|-----------------|--------------------|
| <b>Status</b>           | <b>New Application</b>                 | <b>Assigned</b> |                    |
| <b>IDS Reference #</b>  | <b>1175-972NB9</b>                     | <b>File #</b>   | <b>R- 0018 -13</b> |
| <b>REA #</b>            |  |                 |                    |
| <b>Application Type</b> | <b>New Renewable Energy Approval</b>   |                 |                    |
| <b>Media</b>            | <b>Noise</b>                           |                 |                    |
| <b>Facility Type:</b>   |  |                 |                    |
| <b>Client Name</b>      | <b>Niagara Region Wind Corporation</b> | <b>Client #</b> | <b>2349-972N8X</b> |
| <b>Client Aliases</b>   |  |                 |                    |
| <b>Site Name</b>        | <b>Niagara Region Wind Farm</b>        | <b>Site #</b>   | <b>9527-972NA9</b> |

Denton Miller | Senior Review Engineer | Team 5 | Environmental Approvals Branch | Ministry of the Environment  
2 St. Clair Ave W. 12a Floor Toronto, Ontario, M4V 1L5 | Phone: 416-314-8310 | [Denton.Miller@ontario.ca](mailto:Denton.Miller@ontario.ca)



**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

**Appendix G4 – Supplemental MOECC Receptor Verification Comments**

**Info Request 12: Receptors 986, 1002, 856, 3139, 3142, 2922**

On September 26, 2014, the Ministry of the Environment and Climate Change (MOECC) raised concerns with respect to the location of 6 PORs that had been identified by members of the public. The rationale for the location of these PORs was requested, along with an update to the NAR is adjustments were required.

***O\_986 – Regional Road 65, West Lincoln***

Concern:

The following questions were posed by the MOECC:

1. Please confirm the location (UTM Coordinates) of the POR on this lot.
2. Does the current UTM Coordinates represent a POR?
3. Please identify the building immediately south of the current location of this POR. (Approximately 546 m away from T38).
4. If a POR please amend noise report accordingly.

Response:

Upon review of the aerial photography, the location of this POR does not represent the centre of a noise receptor. As such, the location has been adjusted to the centre of the dwelling, located to the southwest of the original POR location. This adjustment has been reflected in the noise model and corresponding updates to the NAR above. The result of this change is a reduction in the separation between the centre of the closest turbine (T38) and this POR from 573 m to 559 m, and a minor increase in the sound level from 39.5 to 39.8 dBA.

The building immediately south of the current location (i.e. to the southeast of the dwelling) is not a noise receptor. This building, as evidenced by the photograph below, is a garage, and is therefore not reflected in the noise model as a POR.

Action:

The noise model, mapping and appropriate tables in the NAR have been amended to reflect the minor shift in the location of this POR. There are no impacts to the Project since this receptor complies with the minimum setback and noise threshold requirements under O. Reg. 359/09.

***O\_1002 – Regional Road 65, West Lincoln***

Concern:

The following questions were posed by the MOECC:

1. Please confirm the location (UTM Coordinates) of the POR on this lot.
2. Does the current UTM Coordinates represent centre of the POR?

Response:

Upon review of the aerial photography, the location of this POR does not represent the centre of the noise receptor. As such, the location has been adjusted to the centre of the dwelling, which has been reflected in the noise model and corresponding updates to the NAR above. The result of this change is an increase in the separation between the centre of the closest turbine (T38) and this POR from 551 m to 555 m, and a minor decrease in the sound level from 39.8 dBA to 39.7 dBA.

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

Action:

The noise model, mapping and appropriate tables in the NAR have been amended to reflect the minor shift in the location of this POR. There are no impacts to the Project since this receptor complies with the minimum setback and noise threshold requirements under O. Reg. 359/09.

***O\_856 – Inman Rd, Haldimand***

Concern:

The following questions were posed by the MOECC:

1. Please confirm the location (UTM Coordinates) of the POR on this lot.
2. Does the current UTM Coordinates represent centre of the POR?

Response:

Upon review of the aerial photography, the location of this POR does not represent the centre of the noise receptor. As such, the location has been adjusted to the centre of the dwelling, which has been reflected in the noise model and corresponding updates to the NAR above. The result of this change is an increase in the separation between the centre of the closest turbine (T20) and this POR from 552 m to 556 m, and there is no change in the predicted sound level, which remains at 40.0 dBA.

Action:

The noise model, mapping and appropriate tables in the NAR have been amended to reflect the minor shift in the location of this POR. There are no impacts to the Project since this receptor complies with the minimum setback and noise threshold requirements under O. Reg. 359/09.

***O\_3139 and O\_3142 – Regional Road 65, West Lincoln***

Concern:

The following questions were posed by the MOECC:

1. Please confirm the rationale used to determine the location (UTM Coordinates) of the POR on this lot.
2. Should the POR be a vacant lot receptor?

Response:

Both receptors represent vacant lot receptors as there are no dwellings constructed, or approved for construction, on the subject properties. These receptors were mis-labelled in the original noise model but have been corrected above.

Further, both of these PORs are located on land-locked parcels created as a result of the existing Hydro One transmission lines bisecting the farms (i.e. to the north and south of these parcels). These parcels are legally identified as separate properties with no road frontage. However, noise receptors were conservatively identified on these properties in the unlikely event that future road access was provided from the south along the unopened road allowance. The POR's were located near the south of these properties, closest to the unopened road allowance, similar to the development pattern in the area (i.e. located closest to the potential location where access would be considered). Access from the north is not available. Despite the conflict in naming convention, the location of these POR's represents the location where a potential structure would reasonably be constructed in the event that access from the

**NIAGARA REGION WIND FARM  
NOISE ASSESSMENT REPORT**

Appendix G Response to Ministry of the Environment Technical Review Comments  
September 30, 2014

south was provided. The minimum REA setback of 550m has been accommodated for these receptors and the noise model demonstrates that the sound level does not exceed 40.0 dBA.

Action:

The noise model, mapping and appropriate tables in the NAR have been amended to re-label these noise receptors as V\_3139 and V\_3142 to reflect the fact that they represent vacant lots. There are no impacts to the Project since this receptor complies with the minimum setback and noise threshold requirements under O. Reg. 359/09.

***O\_2922 – Vaughn Rd, West Lincoln***

Concern:

The following questions were posed by the MOECC:

1. Please confirm the location (UTM Coordinates) of the POR on this lot.
2. Does the current UTM Coordinates represent a POR?
3. Please identify the buildings immediately south of the current location of this POR. (Approximately 520 m away from the closest turbine). If a POR please amend noise report accordingly.
4. Please identify the building immediately north of the current location of this POR. If a POR please amend noise report accordingly.

Response:

Upon review of the aerial photography, the location of this POR does not represent the centre of a noise receptor. Instead, it is located on a shed (or similar storage structure) south of the house and closer to the nearest turbine (T78). As such, the location has been adjusted to the centre of the dwelling north of this shed, which has been reflected in the noise model and corresponding updates to the NAR above. The result of this change is an increase in the separation between the centre of the closest turbine (T78) and this POR from 563 m to 582 m, and a minor decrease in the sound level from 39.6 dBA to 39.4 dBA.

The building immediately south of the current location (i.e. to the southeast of the dwelling) is not a noise receptor. This building is a barn and is therefore not reflected in the noise model as a POR.

Action:

The noise model, mapping and appropriate tables in the NAR have been amended to reflect the minor shift in the location of this POR. There are no impacts to the Project since this receptor complies with the minimum setback and noise threshold requirements under O. Reg. 359/09.