

**SEBARAN GETARAN PELEDAKAN PERTAMBANGAN BATUBARA**

**DISERTASI**

*Untuk Memenuhi Sebagian Persyaratan Mencapai Derajat Doktor  
Program Studi Ilmu Lingkungan*



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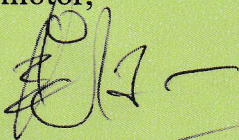


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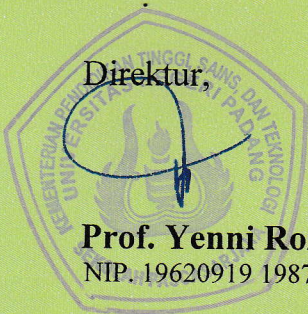
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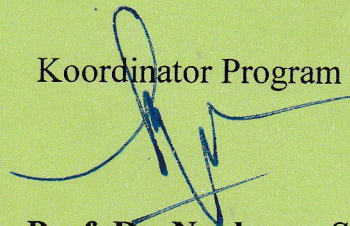
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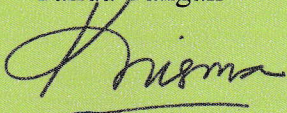
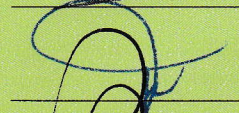
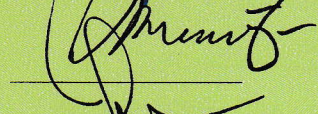
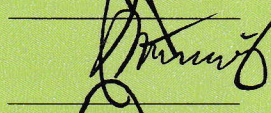


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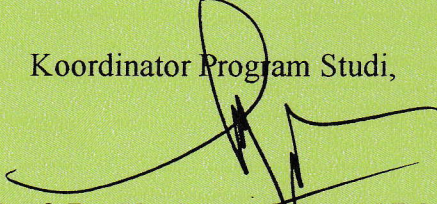
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## **PERNYATAAN KEASLIAN KARYA TULIS DISERTASI**

Dengan ini saya menyatakan bahwa Disertasi saya yang berjudul:

### **SEBARAN GETARAN PELEDAKAN PERTAMBANGAN BATUBARA**

Tidak pernah diajukan untuk memperoleh gelar kesarjanaan di suatu perguruan tinggi lain dan tidak terdapat keseluruhan atau sebagian tulisan orang lain yang saya akui seolah-olah sebagai tulisan saya sendiri tanpa memberikan pengakuan pada penulis aslinya. Apabila di kemudian hari saya terbukti melakukan tindakan menyalin atau meniru tulisan orang lain seolah-olah hasil pemikiran saya sendiri, gelar dan ijazah yang telah diberikan oleh universitas batal saya terima.

Padang, 17 Januari 2025  
Yang memberi pernyataan,

A handwritten signature in black ink is written over a yellow rectangular stamp. The stamp contains the text 'KEMENTERIAN PENDIDIKAN DAN KULTUR' at the top, 'DIREKTORAT JENDERAL PENDIDIKAN TINGGI' in the middle, and '17 136ALX173354161' at the bottom. The signature is a cursive script that flows across the stamp.

**Nur Efendi, S.T., M.Si.**  
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## KATA PENGANTAR

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Padang, 17 Januari 2025  
**Wasalam,**



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## DAFTAR SINGKATAN

Singkatan-singkatan dan definisi-definisi berikut ini adalah yang umum digunakan dalam Industri Batubara dalam kaitannya dengan pelaporan tambang, infrastruktur, ekonomi, lingkungan dan geoteknik maupun hal lainnya yang mungkin digunakan dalam Ringkasan ini.

Singkatan-Singkatan lainnya, khusus terhadap Ringkasan Eksekutif ini disampaikan bersama definisi-definisi dalam isi Ringkasan Laporan Disertasi.

|           |                                                       |
|-----------|-------------------------------------------------------|
| 40 °      | : 40 derajat                                          |
| AAT       | : Air Asam Tambang                                    |
| ABA       | : Acid-Base Accounting                                |
| AC        | : Acid Consuming                                      |
| ACPE      | : ASEAN Chartered Professional Engineer               |
| Ad        | : Air dried                                           |
| adb       | : Air dried basis                                     |
| ADT       | : Articulated Dump Truck                              |
| AF        | : Acid Forming                                        |
| AFT       | : Ash Fusion Temperature                              |
| AMD       | : Acid Mine Drainage                                  |
| AMDAL     | : Analisis Mengenai Dampak Lingkungan Hidup           |
| ANC       | : Acid Neutralising Capacity                          |
| ANDAL     | : Analisis Dampak Lingkungan Hidup                    |
| APBI      | : Asosiasi Pertambangan Batubara Indonesia            |
| PT. IBP   | : PT. Insani Baraperkasa                              |
| PT. ANSAF | : PT. ANSAF                                           |
| APD       | : Alat Pengaman Diri                                  |
| APL       | : Area Penggunaan Lain                                |
| AS        | : Australian Standards                                |
| ASCII     | : American Standard Code for Information Interchange. |
| ASEAN     | : Association of Southeast Asian Nations              |
| Ash       | : Ash content                                         |

|                  |                                                                                         |
|------------------|-----------------------------------------------------------------------------------------|
| ASTER Radiometer | : Advanced Spaceborne Thermal Emission and Reflection Radiometer                        |
| Arb              | : As received basis                                                                     |
| ARD              | : Acid Rock Drainage                                                                    |
| ASTM             | : American Society for Testing and Materials                                            |
| Avg.             | : Average                                                                               |
| bcm              | : Bank cubic metre                                                                      |
| BESR             | : Break Even Stripping Ratio                                                            |
| BLC              | : Barge Loading Conveyor                                                                |
| BLHD             | : Badan Lingkungan Hidup Daerah                                                         |
| BM               | : Bench Marking                                                                         |
| BML              | : Baku Mutu Lingkungan                                                                  |
| BoW              | : Base of Weathering                                                                    |
| BPS              | : Badan Pusat Statistik                                                                 |
| BT               | : Bujur Timur                                                                           |
| BUMN             | : Badan Usaha Milik Negara capex Capital costs                                          |
| CBR              | : California Bearing Ratio                                                              |
| CCoW             | : Coal Contract of Work                                                                 |
| CHPP             | : Coal Handling and Processing Plant                                                    |
| CI               | : Coking Index CV Measure of energy (kilocalorie) per kilogram CP<br>: Competent Person |
| CPI              | : Competent Person Indonesia                                                            |
| CPP              | : Coal Crushing Plant                                                                   |
| CSR              | : Corporate Sosial Responsibility                                                       |
| CTM              | : Coal to Methanol                                                                      |
| CV               | : calorific value                                                                       |
| Daf              | : Dry ash free                                                                          |
| DCF              | : Discounted Cash Flow                                                                  |
| DEMNAS           | : Digital Elevation Model Nasional                                                      |
| DME              | : Dimetil Ether                                                                         |



|        |                                                             |
|--------|-------------------------------------------------------------|
| DMO    | : Domestic Market Obligation                                |
| EBITDA | : Earning Before Interest Tax Depreciation and Amortization |
| ESDM   | : Kementerian Energi Dan Sumber Daya Mineral                |
| ET     | : Eksportir Terdaftar                                       |
| FC     | : Fixed carbon                                              |
| FEM    | : Finite Element Method                                     |
| FGD    | : Forum Group Discussion                                    |
| FOB    | : Free on Board (maybe Barge or Vessel, as stated)          |
| FoS    | : factor of safety                                          |
| FS     | : Feasibility Study                                         |
| gar    | : Gross as received                                         |
| GoI    | : Government of Indonesia                                   |
| GPS    | : Global Positioning Station                                |
| GWL    | : ground water level                                        |
| ha     | : Hectare                                                   |
| HBA    | : Harga Batubara Acuan                                      |
| HE     | : Hydraulic Excavator                                       |
| HGI    | : Hardgrove Grindability Index                              |
| HPK    | : Hutan Produksi Konversi                                   |
| HPB    | : Harga Patokan Batubara                                    |
| HSE    | : Health Safety Environment hr Hour                         |
| IB     | : Interburden                                               |
| ICI    | : Indonesia Coal Index                                      |
| ID     | : In situ density                                           |
| IDR    | : Indonesia Rupiah                                          |
| IM     | : Inherent Moisture                                         |
| IPD    | : Inpit Dump                                                |
| IPM    | : Insinyur Profesional Madya                                |
| IPPKH  | : Izin Pinjam Pakai Kawasan Hutan                           |
| IRR    | : Internal Rate of Return                                   |
| ISM    | : Interpretative Structural Modeling                        |

|                |                                                                                                                                                                    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISP            | : Intermediate stockpile                                                                                                                                           |
| IUJP           | : Izin Usaha Jasa Pertambangan                                                                                                                                     |
| IUP            | : Izin Usaha Pertambangan (Mining Permit)                                                                                                                          |
| JORC           | : The Joint Ore Reserves Committee of The Australasian Institute of Mining and Metallurgy, Australian Institute of Geoscientists and Minerals Council of Australia |
| JSA            | : Job Safety Analysis                                                                                                                                              |
| kcal/kg        | : Unit of energy (kilocalorie) per kilogram                                                                                                                        |
| KCMI           | : Komite Cadangan Mineral Indonesia                                                                                                                                |
| K              | : Ribu                                                                                                                                                             |
| kg             | : Kilogram                                                                                                                                                         |
| km             | : Kilometer                                                                                                                                                        |
| KO             | : Keselamatan Operasi                                                                                                                                              |
| KP             | : Kuasa Pertambangan                                                                                                                                               |
| KPI            | : Key Performance Indicator                                                                                                                                        |
| KPL            | : Kolam Pengendapan Lumpur                                                                                                                                         |
| KTT            | : Kepala Teknik Tambang                                                                                                                                            |
| kt             | : Thousand tonne                                                                                                                                                   |
| kV             | : Kilovolt                                                                                                                                                         |
| Kw             | : Kilowatt                                                                                                                                                         |
| L              | : Liter                                                                                                                                                            |
| LAS            | : log ASCII standard                                                                                                                                               |
| LCM            | : Loose cubic metre                                                                                                                                                |
| LIDAR          | : Light Detection and Ranging                                                                                                                                      |
| LNG            | : Liquid Natural Gas                                                                                                                                               |
| LOM            | : Life of Mine                                                                                                                                                     |
| LPG            | : liquefied petroleum gas                                                                                                                                          |
| LV             | : Light Vehicle                                                                                                                                                    |
| m <sup>3</sup> | : Kubik Meter                                                                                                                                                      |
| m              | : Meter                                                                                                                                                            |
| M              | : Juta                                                                                                                                                             |

|                    |                                        |
|--------------------|----------------------------------------|
| Mbcm               | : Million bank cubic metres            |
| Mbcm <sub>pa</sub> | : Million bank cubic metres per annum  |
| MDS                | : Analisis Multidimensional Scaling    |
| ML                 | : Million Litres                       |
| MODI               | : Minerba One Database Indonesia       |
| MOMI               | : Minerba One Map Indonesia            |
| MoU                | : Memorandum of Understanding          |
| MPA                | : Maximum Potential Acidity            |
| MSDS               | : Material Safety Data Sheet           |
| m/s                | : Metres per second                    |
| Mt                 | : Million tonne                        |
| Mtpa               | : Million tonnes per annum             |
| MV                 | : MV                                   |
| MW                 | : Megawatt                             |
| NAF                | : Non-Acid Forming                     |
| NAG                | : Nett Acid Generation                 |
| NAR                | : Nett as Received                     |
| NPV                | : Net Present Value                    |
| OB (o/b)           | : Overburden                           |
| OH                 | : Off Highway                          |
| OPD                | : Outpit Dump                          |
| Opex               | : Operating costs                      |
| Pa                 | : Per Annum                            |
| PAF                | : Potential Acid Forming               |
| PP                 | : Peraturan Pemerintah                 |
| PPN                | : Pajak Penghasilan                    |
| PPE                | : Personal Protective Equipment        |
| RD                 | : Relative Density                     |
| RKAB               | : Rencana Kerja dan Anggaran Biaya     |
| RKL                | : Rencana Pengelolaan Lingkungan Hidup |
| RL                 | : Relative Level                       |



|                  |                                        |
|------------------|----------------------------------------|
| RMR              | : Rock Mass Rating                     |
| ROM              | : Run-of-Mine                          |
| RPL              | : Rencana Pemantauan Lingkungan Hidup. |
| SE               | : Specific Energy                      |
| SNI              | : Standar Nasional Indonesia           |
| SR               | : Strip ratio                          |
| SOP              | : Standard operating procedure         |
| ST               | : Seam Thickness                       |
| SPT              | : Standard Penetration Test            |
| t                | : Tonne                                |
| tkm              | : Tonne kilometre                      |
| TM               | : Total Moisture                       |
| t/m <sup>3</sup> | : Tonne per cubic metre                |
| tpd              | : Tonnes per day                       |
| tph              | : Tonne per hour                       |
| TS               | : Total Sulphur                        |
| TM               | : Total Moisture                       |
| TSS              | : Total Suspended Solid                |
| UAV              | : Unmanned Aerial Vehicle              |
| UBC              | : Upgraded Brown Coal                  |
| USD              | : United States Dollars                |
| UU               | : Undang-Undang                        |
| VM               | : Volatile Matter                      |

## ABSTRAK

**Nur Efendi, 2025.** Sebaran Getaran Peledakan Pertambangan Batubara. Disertasi. Sekolah Pascasarjana. Universitas Negeri Padang.

Pertambangan batubara adalah kegiatan ekstraksi yang penting untuk memenuhi kebutuhan energi global. Namun, peledakan yang digunakan dalam proses pertambangan dapat menghasilkan sebaran getaran yang berpotensi menyebabkan dampak negatif terhadap lingkungan dan masyarakat sekitarnya. Tujuan penelitian mengidentifikasi dan menganalisis sebaran getaran yang tidak aman, kurang aman, dan aman terhadap lingkungan wilayah tambang dan lingkungan di luar tambang, serta menghasilkan luas daerah pengaruh pada lokasi yang terkena sebaran getaran peledakan, menemukan peta sebaran dan zonasi getaran peledakan pertambangan terhadap lingkungan, dan merumuskan sebaran peledakan pertambangan batubara (kriging), dengan mencari permasalahan prioritas (ISM), serta status keberlanjutan dalam strategi peledakan (MDS). Metoda yang digunakan adalah metoda kriging, ISM, dan MDS. Hasil penelitian ditemukan sebaran tidak aman mencakup area dengan radius 400 meter (zona atas), panduan bagi perusahaan agar lebih berhati-hati terhadap peledakan selanjutnya, hubungan driver power dan hirarki pada elemen 2 (dua) kerusakan terhadap struktur bangunan, elemen 3 (tiga) kekhawatiran terhadap masyarakat lokal, dan elemen 4 (empat) lemahnya pengawasan dan penegakan hukum, menganalisis dan memahami kompleksitas getaran peledakan terhadap bangunan serta dalam merancang langkah-langkah untuk mengurangi dampak, cukup berkelanjutan masing-masing sebesar 54,09, 50,75, 69,15, 74,78, dan 57,98% untuk dimensi Lingkungan, Sosial, Ekonomi, Teknis, dan Kelembagaan. Namun perlu diwaspadai pada dimensi Sosial, Lingkungan, dan Kelembagaan. Output dari penelitian ini akan mencakup pemahaman yang lebih baik tentang sebaran getaran peledakan pertambangan batubara, pemodelan distribusi spasial getaran, dan rekomendasi mitigasi untuk mengurangi dampak negatifnya. Hasil ini diharapkan dapat menjadi pedoman bagi industri pertambangan dalam mengoptimalkan proses peledakan untuk mengurangi dampak pada lingkungan.

## ABSTRACT

**Nur Efendi, 2025.** Distribution of Coal Mining Blasting Vibration. Dissertation. PostGraduate School of Universitas Negeri Padang.

Coal mining is an important extraction activity to meet global energy needs. However, blasting used in the mining process can produce vibration distribution that has the potential to cause negative impacts on the environment and surrounding communities. The purpose of this study is to identify and analyze the distribution of vibrations that are unsafe, less safe, and safe for the environment of the mining area and the environment outside the mine, and to produce an area of influence at the location affected by the distribution of blasting vibrations, to find a map of the distribution and zoning of mining blasting vibrations on the environment, and to formulate the distribution of coal mining blasting (kriging), by finding priority problems (ISM), and the sustainability status in the blasting strategy (MDS). The methods used are the kriging method, ISM, and MDS. The results of the study found that the unsafe distribution covers an area with a radius of 400 meters (upper zone), a guide for companies to be more careful about further blasting, the relationship between driver power and hierarchy in element 2 (two) damage to building structures, element 3 (three) concerns about local communities, and element 4 (four) weak supervision and law enforcement, analyzing and understanding the complexity of blasting vibrations on buildings and in designing steps to reduce the impact, quite sustainable, each at 54.09, 50.75, 69.15, 74.78, and 57.98% for the Environmental, Social, Economic, Technical, and Institutional dimensions. However, it is necessary to be aware of the Social, Environmental, and Institutional dimensions. The output of this study will include a better understanding of the distribution of coal mining blasting vibrations, modeling the spatial distribution of vibrations, and mitigation recommendations to reduce its negative impacts. These results are expected to be a guideline for the mining industry in optimizing the blasting process to reduce the impact on the environment.

## **BAB I**

### **PENDAHULUAN**

#### **A. Latar Belakang**

Berdasarkan Keputusan Menteri Energi dan Sumber Daya Mineral Republik Indonesia Nomor 1827 K/30/MEM/2018 Tentang Pedoman Pelaksanaan Kaidah Teknik Pertambangan yang Benar, pengelolaan lingkungan kerja mencakup antisipasi, pengenalan, pengukuran, penilaian, pencegahan, pengelolaan, pengukuran, penilaian, dan evaluasi dalam lingkungan kerja.

Orang selalu dipengaruhi dan mempengaruhi lingkungannya, baik secara sadar maupun tanpa disadari (Syah, N., 2021). Salah satu dampak aktivitas penambangan batubara terkait dengan masyarakat adalah dampak langsung yang ditimbulkannya terhadap lingkungan. Namun, tidak semua kegiatan pertambangan akan memiliki dampak negatif bagi masyarakat sekitar; sebaliknya, mereka akan memiliki dampak positif, seperti semakin banyak kesempatan kerja, kesempatan berusaha yang lebih merata, dan peningkatan nilai ekspor dan dana. Industri memiliki dampak yang signifikan pada budaya, sosial, dan gaya hidup masyarakat selain mengubah kualitas lingkungan (Barlian, E., & Yunhendri Danhas, S. P., 2022).

PT. Insani Baraperkasa (selanjutnya disingkat PT. IBP) merupakan Perusahaan pertambangan batubara memiliki Kontrak Perjanjian PKP2B. Pada saat ini luas wilayah 24.477,60 Hektar yang masuk tahap produksi berdasarkan surat yang dikeluarkan oleh Menteri Energi dan Sumber Daya



Mineral Nomor 476.K/30/DJB/2008. Lokasi kegiatan penelitian berada di PT. Ansaf Inti Resources (selanjutnya disingkat PT. ANSAF) sebagai salah satu Sub-Kontraktor di Blok Separi lokasi Berambai dengan luas  $\pm 182$  Ha, terletak di Desa Kertabuana, Kecamatan Tenggarong Seberang, Kabupaten Kutai Kartanegara, Provinsi Kalimantan Timur. Dimungkinkan untuk mencapai lokasi kantor PT. ANSAF dengan menggunakan rute perjalanan dari Samarinda ke Desa Bangun Rejo dengan jarak  $\pm 25$  km,  $\pm 30$  menit untuk kendaraan roda dua,  $\pm 20$  menit untuk kendaraan roda empat, dan  $\pm 10$  km ke lokasi penambangan PT. ANSAF dengan menggunakan bus karyawan tambang dan kendaraan ringan (LV) selama  $\pm 40$  menit dalam cuaca cerah tetapi mungkin selama 60 menit dalam cuaca hujan.

Penelitian dilakukan di area penambangan dengan sistem tambang terbuka, yang memiliki kelebihan dan kekurangan. Untuk mengurangi dampak negatif penambangan batubara terhadap masyarakat, perlu dilakukan upaya pengendalian pencemaran udara, air, dan tanah, serta pengelolaan residu tambang yang baik, termasuk pengendalian efek getaran peledakan terhadap masyarakat secara keseluruhan. Masalah getaran terhadap lingkungan sekitar wilayah pertambangan harus dikelola dengan mengacu kepada Tingkat getaran peledakan pada aktivitas tambang terbuka terhadap bangunan sesuai dengan Standar Nasional Indonesia (SNI) 7571:2010.

Santoso EKO (2021) Mengatakan bahwa hasil peledakan berdampak pada lingkungan termasuk getaran tanah. Getaran tanah tinggi dapat menyebabkan gangguan, ketidaknyamanan, bahkan kerusakan struktur di sekitar. Menurut

definisi ekologi (Santoso et al., 2021), ekologi adalah hubungan antara makhluk hidup dengan benda mati dan satu sama lain. Akibatnya, getaran peledakan tinggi akan merusak ekologi lingkungan pada struktur bangunan.

Getaran tanah adalah gelombang yang bergerak di dalam tanah sebagai akibat dari aktivitas peledakan batuan dan merupakan salah satu masalah lingkungan paling penting di tambang terbuka. Getaran tanah dapat merusak struktur dan infrastruktur di sekitar lokasi tambang. (Sandoyo, et al., 2018). Oleh karena itu, sangat penting untuk melakukan analisis getaran tanah akibat ledakan agar masyarakat sekitar tidak mengeluh karena kerusakan struktur. (Maryura, et al., 2014; Ma'rief, et al., 2020; Sundoyo, 2015).

Estimasi dengan Kriging, Estimasi nilai unit model blok yang lebih kecil (grid) dilakukan dengan cara metode geostatistik berupa kriging, dimana jenis metoda kriging yang digunakan dalam hal ini yaitu kriging blok biasa (M Gusman et al 2019 IOP Con). Sehingga penelitian ini berhubungan dengan pengaruh kegiatan peledakan pada penambangan batubara terhadap masyarakat sekitar pertambangan. Kerugian disebabkan oleh getaran peledakan menyebabkan kerusakan pada struktur dan budaya masyarakat, merupakan akibat yang paling signifikan dari peledakan.

## **B. Identifikasi Masalah**

Tidak ada penelitian yang tidak memiliki masalah, masalah adalah awal penelitian (Barlian, E., 2018). Studi yang digunakan berkorelasi zonasi getaran peledakan dan efek peledakan terhadap bangunan.

Berdasarkan latar belakang yang telah dijelaskan, masalah penelitian ini diidentifikasi sebagai berikut:

1. Tingkat getaran peledakan ANFO (Amonium Nitrat Fuel Oil) dapat melebihi ambang batas yang ditetapkan berdasarkan SNI 7571:2010, dapat menyebabkan kerusakan lingkungan abiotik (struktur bangunan).
2. Dampak getaran kegiatan peledakan menimbulkan keretakan pada bangunan, serta dapat mempengaruhi lingkungan biotik, termasuk flora (vegetasi) dan fauna (hewan).
3. Belum adanya pemetaan getaran akibat dampak peledakan di lokasi tambang guna meminimalkan dampak yang ditimbulkan.
4. Kecemasan masyarakat terhadap getaran yang dihasilkan oleh peledakan. (angket)

### **C. Pembatasan Masalah**

Dengan mempertimbangkan batasan masalah di dalam disertasi “*Sebaran Getaran Peledakan Pertambangan Batubara*”, membahas tingkat getaran dan jarak aman peledakan menggunakan metoda kriging pada tambang terbuka terhadap lingkungan tambang, Menggunakan Metoda ISM dan MDS dengan mempertimbangkan dimensi sosial, ekologi, ekonomi, teknik, dan kelembagaan untuk keberlanjutan.

### **D. Perumusan Masalah**

Permasalahan yang akan diteliti sehubungan dengan latar belakang dan masalah identifikasi di atas yaitu:

1. Bagaimana mengidentifikasi dan menganalisis sebaran getaran peledakan

yang berbeda tingkat keamanannya di lingkungan tambang dan sekitarnya?

2. Sejauh mana sebaran dan jarak getaran peledakan yang ditimbulkan sehingga mempengaruhi lingkungan, terutama pada bangunan, flora dan fauna?
3. Bagaimana proses sebaran peledakan pertambangan batubara menggunakan metode kriging, dan bagaimana langkah dalam mencari permasalahan prioritas dengan ISM dapat diintegrasikan mengevaluasi status keberlanjutan strategi peledakan menggunakan MDS?

#### **E. Tujuan Penelitian**

Berikut ini adalah tujuan penelitian:

1. Mengidentifikasi dan menganalisis sebaran getaran yang tidak aman, kurang aman, dan aman terhadap lingkungan wilayah tambang dan lingkungan di luar tambang, serta menghasilkan luas daerah pengaruh pada lokasi terkena sebaran getaran peledakan.
2. Menemukan peta sebaran dan zonasi getaran peledakan pertambangan terhadap lingkungan.
3. Merumuskan sebaran peledakan pertambangan batubara (kriging), dengan mencari permasalahan prioritas (ISM), serta status keberlanjutan dalam strategi peledakan (MDS).

#### **F. Manfaat Penelitian**

Manfaat dari penelitian ini diharapkan dapat menentukan rekomendasi dampak getaran dari peledakan dapat menjadi panduan sebagai kebijakan.

1. Bagi Pengambilan Keputusan: Hasil penelitian ini diharapkan akan berfungsi sebagai referensi dan pedoman untuk kebijakan masa depan Pemerintah

Provinsi Kalimantan Timur dalam menentukan rekomendasi pengembangan untuk wilayah yang terdampak oleh getaran peledakan.

2. Bagi Ilmu Pengetahuan: Hasil penelitian ini dapat diterapkan pada penelitian lain yang memiliki dampak.
3. Bagi Peneliti: Dengan memperoleh peta zonasi getaran peledakan, lebih berhati-hati dalam melakukan peledakan di area pemukiman.
4. Bagi Masyarakat: Dapat memahami bahwa peristiwa peledakan kemungkinan tidak akan berdampak terhadap psikologi masyarakat.

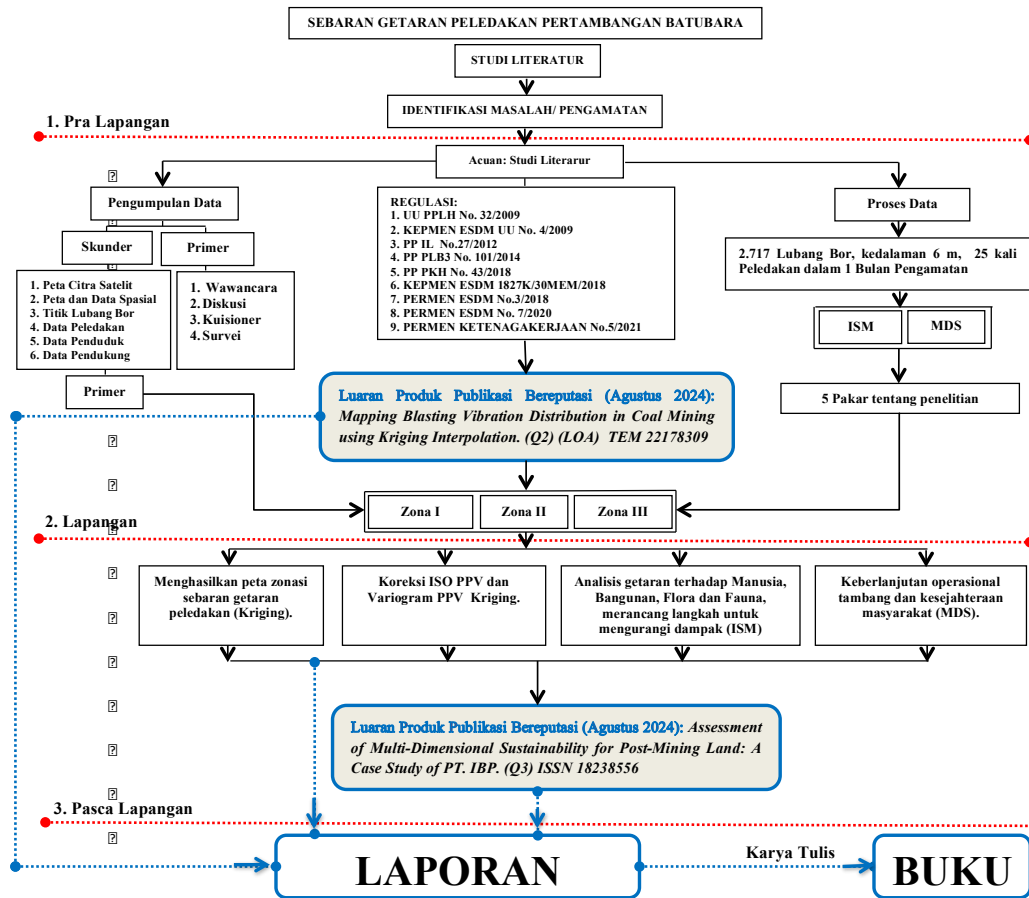
#### **G. Kebaharuan (Novelty)**

1. Keterbaharuan menghasilkan Peta zonasi sebaran getaran peledakan dengan metoda Kriging, sehingga gambaran jarak aman untuk manusia (200 meter), bangunan, flora, dan fauna, sebagaimana yang tertuang dalam pasal 16 Undang-Undang Lingkungan Hidup Nomor 32 Tahun 2009.
2. Menemukan elemen-elemen prioritas dan menjadikan kebijakan utama dalam menyelesaikan persoalan peledakan dengan metoda *Interpretative Structural Modeling* (ISM), Mengetahui status keberlanjutan strategi dengan mempertimbangkan dimensi sosial, ekologi, ekonomi, teknis, dan kelembagaan dengan metoda *Multidimensional Scaling* (MDS), dari strategi peledakan pertambangan batubara.

#### **H. Roadmap Penelitian**

Pra-lapangan, lapangan, dan pasca-lapangan adalah tiga tahapan penelitian digunakan. Berikut adalah pekerjaan yang dilakukan pada setiap tahapan:





Gambar 1.1. Roadmap penelitian

## I. Defenisi Operasional

Untuk mengontrol dampak getaran peledakan dari pertambangan batubara, metode geostatistika memiliki beberapa keuntungan operasional yang signifikan, antara lain:

1. Analisis yang lebih mendalam, memungkinkan analisis terhadap dampak getaran peledakan termasuk pemetaan distribusi getaran, identifikasi area yang rentan terhadap kerusakan, dan penemuan pola-pola spasial terkait dengan peledakan.

2. Perencanaan peledakan yang optimal, Untuk mengurangi risiko getaran berlebihan dan mengurangi dampak negatifnya, teknik ini termasuk menentukan lokasi dan kedalaman peledakan yang tepat.
3. Pemantauan dampak secara real-time, Metode geostatistika dapat digunakan untuk memantau dampak getaran peledakan secara real-time. Melakukan perbaikan segera setelah terdeteksi kerusakan atau efek buruk lainnya.
4. Penggunaan bahan peledak yang lebih efisien dan mengatur parameter peledakan agar sesuai dengan geologi dan lingkungan lokal.
5. Metode geostatistika dapat memprediksi efek buruk pada lingkungan, mengurangi polusi udara, mengurangi risiko bagi tanah dan air, dan mempertahankan habitat dan keanekaragaman hayati yang alami.
6. Kepatuhan Regulasi, menggunakan teknik geostatistika untuk mengontrol efek getaran peledakan untuk menjamin kepatuhan terhadap peraturan lingkungan terkait. Analisis dan pengawasan yang ketat memastikan bahwa operasi pertambangan tidak melampaui aturan dan hukum.

Oleh karena itu, untuk mengelola efek getaran peledakan dari pertambangan batubara, metode geostatistika dapat meningkatkan efisiensi operasional, mengurangi risiko lingkungan, dan memastikan kepatuhan terhadap hukum yang berlaku.

## **BAB V**

### **KESIMPULAN, IMPLIKASI, DAN SARAN**

#### **A. Kesimpulan**

##### **1. Mengidentifikasi dan menganalisis sebaran getaran:**

###### **a. Mengidentifikasi sebaran getaran dalam lingkungan wilayah tambang:**

Sebaran tidak aman mencakup area dengan radius 400 meter (zona 1),

Sebaran kurang aman meliputi daerah dengan radius 250 meter (zona 2),

Sebaran aman adalah area dengan radius 200 meter (zona 3).

###### **b. Menganalisis sebaran getaran dalam konteks lingkungan wilayah tambang:**

Hasil penelitian menunjukkan bahwa getaran melebihi ambang batas

Standar Nasional Indonesia (SNI) 7571:2010 yang ditetapkan dengan radius

200 meter untuk jarak aman manusia. Hal ini disebabkan struktur tanah,

kontur, dan topografi. Sebaran getaran peledakan pertambangan batubara

dapat berdampak besar pada flora dan fauna, kerusakan fisik pada flora dan

gangguan perilaku dan kesehatan hewan. Sebagai hasil dari analisis yang

dilakukan dengan teknik geostatistika, ditemukan bahwa getaran menyebar

secara tidak merata dan mungkin mempengaruhi area yang lebih luas dari

yang diperkirakan. Flora sering mengalami kerusakan pada akar dan

penurunan pertumbuhan, sedangkan fauna dapat mengalami tekanan,

gangguan habitat, dan perubahan pola migrasi.

2. Menghasilkan peta sebaran zonasi getaran peledakan menggunakan metoda kriging yang terbagi menjadi 3 (tiga) zona, dimana zona 1 (satu) tidak aman berada di posisi atas, zona 2 (dua) kurang aman di posisi tengah, dan zona 3 (tiga) aman di posisi bawah.
3. Melalui kriging diperoleh peta sebaran getaran peledakan terhadap lingkungan tambang. Hasil ini akan membantu dalam mengidentifikasi masalah yang paling prioritas menggunakan ISM yaitu Kerusakan pada struktur bangunan (E2), Kekhawatiran terhadap masyarakat lokal (E3), Lemahnya Pengawasan dan Penegakan Hukum (E4). Selanjutnya, dengan mempertimbangkan hasil tersebut, MDS dapat digunakan untuk mengevaluasi keberlanjutan sebaran peledakan, hasil status cukup berkelanjutan masing-masing sebesar 54,09, 50,75, 69,15, 74,78 dan 57,98% untuk dimensi Lingkungan, Sosial, Ekonomi, Teknis, dan Kelembagaan. Perlu diwaspadai dimensi Sosial, Lingkungan, dan Kelembagaan.

Ketiga elemen ini saling mendukung untuk menciptakan praktik tambang yang lebih aman dan berkelanjutan.

## **B. Implikasi**

1. Implikasi dari mengidentifikasi dan menganalisis sebaran getaran adalah sebagai berikut:
  - a. Keselamatan Masyarakat: Memungkinkan penentuan area berisiko tinggi, sehingga tindakan mitigasi dapat diterapkan untuk melindungi penduduk dan infrastruktur.
  - b. Perlindungan Lingkungan: Memberikan wawasan tentang dampak

peledakan terhadap ekosistem, sehingga kebijakan lingkungan yang lebih baik dapat dirumuskan.

- c. Pengelolaan Risiko: Menghasilkan data yang dapat digunakan untuk perencanaan yang lebih baik dalam kegiatan peledakan, mengurangi potensi kerugian.
  - d. Regulasi dan Kebijakan: Menjadi dasar untuk rekomendasi regulasi yang lebih ketat dalam operasi pertambangan demi menjaga keberlanjutan dan keamanan.
  - e. Peningkatan Teknologi: Mendorong pengembangan teknologi pemantauan dan mitigasi yang lebih efektif dalam aktivitas peledakan.
2. Menemukan peta sebaran dan zonasi getaran peledakan pertambangan memiliki beberapa implikasi penting:
- a. Perencanaan Tata Ruang: Peta ini dapat digunakan untuk merencanakan penggunaan lahan di sekitar area tambang, membantu menghindari pembangunan infrastruktur yang berisiko.
  - b. Mitigasi Risiko: Identifikasi zona berisiko memungkinkan penerapan langkah-langkah mitigasi yang tepat, seperti penyesuaian teknik peledakan atau penetapan zona larangan.
  - c. Kebijakan Lingkungan: Data sebaran mendukung pengembangan kebijakan yang lebih baik untuk perlindungan lingkungan, memastikan kegiatan tambang dilakukan secara berkelanjutan.
  - d. Kesadaran Masyarakat: Peta sebaran dapat meningkatkan kesadaran masyarakat tentang potensi dampak getaran, mendorong keterlibatan dalam

pengawasan dan pengambilan keputusan.

- e. Penelitian dan Pengembangan: Memfasilitasi penelitian lebih lanjut tentang dampak jangka panjang dari getaran terhadap ekosistem dan kesehatan manusia.

Dengan demikian, peta sebaran dan zonasi ini menjadi alat penting dalam pengelolaan risiko dan keberlanjutan di industri pertambangan.

3. Merumuskan sebaran peledakan pertambangan batubara dengan menggunakan kriging, mencari permasalahan prioritas melalui ISM, dan mengevaluasi status keberlanjutan dalam strategi peledakan dengan MDS memiliki beberapa implikasi penting:

- a. Optimalisasi Proses Peledakan: Penggunaan kriging dapat meningkatkan akurasi prediksi dampak peledakan, memungkinkan teknik yang lebih efisien dan aman.
- b. Pengambilan Keputusan yang Informatif: ISM membantu mengidentifikasi masalah prioritas, sehingga pengelolaan risiko dapat lebih fokus dan efektif.
- c. Keberlanjutan: MDS memberikan gambaran tentang keberlanjutan strategi peledakan, memastikan bahwa praktik pertambangan tidak merusak lingkungan dan memenuhi standar sosial.
- d. Kolaborasi Stakeholder: Pendekatan ini mendorong dialog antara pihak-pihak terkait, termasuk komunitas lokal dan pemerintah, untuk mencapai solusi yang lebih holistik.
- e. Perbaikan Regulasi: Hasil analisis dapat menjadi dasar untuk rekomendasi regulasi yang lebih baik, mendukung praktik pertambangan yang



bertanggung jawab.

Dengan demikian, integrasi ketiga metode ini berkontribusi pada keberlanjutan dan keselamatan dalam industri pertambangan.

### **C. Saran**

1. Berikut beberapa saran terkait identifikasi dan analisis sebaran getaran:
  - a. Pemantauan Berkelanjutan: Lakukan pemantauan rutin terhadap sebaran getaran untuk mendeteksi perubahan dan mengantisipasi dampak.
  - b. Penggunaan Teknologi Modern: Manfaatkan teknologi seperti sensor dan perangkat lunak analitik untuk memperoleh data yang lebih akurat dan real-time.
  - c. Penentuan Zona Aman: Kembangkan dan terapkan batasan zona aman berdasarkan hasil analisis, termasuk penetapan zona larangan bagi aktivitas sensitif.
  - d. Keterlibatan Komunitas: Libatkan masyarakat sekitar dalam proses pemantauan dan pengambilan keputusan untuk meningkatkan kesadaran dan kepercayaan.
  - e. Pendidikan dan Pelatihan: Berikan pelatihan kepada tenaga kerja dan masyarakat mengenai risiko sebaran getaran dan langkah mitigasi yang perlu diambil.
  - f. Kolaborasi dengan Ahli: Bekerjasama dengan ahli geoteknik dan lingkungan untuk mendapatkan rekomendasi yang komprehensif dan berbasis data.

Melalui langkah-langkah ini, pengelolaan sebaran getaran dapat dilakukan dengan lebih efektif dan bertanggung jawab.

2. Berikut adalah beberapa saran terkait penemuan peta sebaran dan zonasi getaran peledakan pertambangan terhadap lingkungan:
  - a. Pembaruan Peta Secara Berkala: Pastikan peta sebaran dan zonasi diperbarui secara rutin untuk mencerminkan perubahan kondisi dan aktivitas tambang.
  - b. Analisis Dampak Lingkungan: Lakukan analisis dampak lingkungan yang lebih mendalam untuk memahami efek jangka panjang dari sebaran getaran terhadap ekosistem.
  - c. Sosialisasi kepada Masyarakat: Adakan program sosialisasi untuk menjelaskan peta sebaran dan zonasi kepada masyarakat sekitar, meningkatkan kesadaran tentang potensi risiko.
  - d. Pengembangan Kebijakan Berbasis Data: Gunakan peta sebaran untuk mengembangkan kebijakan dan regulasi yang lebih efektif dalam mengelola dampak peledakan.
  - e. Integrasi dengan Sistem Informasi Geografis (SIG): Integrasikan peta sebaran dengan sistem informasi geografis untuk analisis yang lebih komprehensif dan visualisasi yang lebih baik.
  - f. Evaluasi Teknik Peledakan: Tinjau dan evaluasi teknik peledakan yang digunakan untuk meminimalkan dampak getaran pada lingkungan dan masyarakat.
  - g. Pengawasan yang Ketat: Implementasikan pengawasan yang ketat di zona

berisiko tinggi untuk mengurangi dampak negatif terhadap infrastruktur dan ekosistem.

Dengan menerapkan saran-saran ini, pengelolaan dampak getaran peledakan dapat dilakukan dengan lebih efektif dan berkelanjutan.

3. Berikut adalah beberapa saran terkait merumuskan sebaran peledakan pertambangan batubara dengan metode kriging, analisis permasalahan prioritas menggunakan ISM, dan evaluasi status keberlanjutan dengan MDS:
  - a. Keterpaduan Data: Integrasikan hasil kriging dengan data lingkungan dan sosial lainnya untuk mendapatkan gambaran yang lebih holistik tentang dampak peledakan.
  - b. Analisis Sensitivitas: Lakukan analisis sensitivitas untuk memahami bagaimana perubahan dalam variabel peledakan mempengaruhi hasil dan risiko.
  - c. Workshop dan Pelatihan: Selenggarakan workshop bagi para pemangku kepentingan untuk memahami penggunaan metode ISM dan MDS, serta cara interpretasi hasilnya.
  - d. Rencana Aksi Berbasis Hasil: Buat rencana aksi yang jelas berdasarkan hasil analisis permasalahan prioritas untuk mengatasi isu-isu yang teridentifikasi.
  - e. Monitoring Keberlanjutan: Implementasikan sistem pemantauan untuk mengevaluasi keberlanjutan dari strategi peledakan secara berkala dan adaptif.
  - f. Keterlibatan Stakeholder: Libatkan masyarakat dan stakeholder dalam

proses pengambilan keputusan, mengumpulkan masukan mereka untuk meningkatkan relevansi strategi.

- g. Pengembangan Teknologi: Investasikan dalam teknologi yang dapat meningkatkan efisiensi dan mengurangi dampak peledakan, seperti teknik peledakan yang lebih ramah lingkungan.

Dengan saran-saran ini, diharapkan pengelolaan sebaran peledakan dapat dilakukan dengan lebih bertanggung jawab dan berkelanjutan.

Penelitian ini menyimpulkan bahwa PT. IBP menunjukkan keberlanjutan yang moderat dalam hal ini pengelolaan lahan pascatambang, perbaikan signifikan dapat dilakukan di bidang sosial dan aspek lingkungan. Dengan mengatasi kekhawatiran masyarakat, meningkatkan asuransi kesehatan akses, dan melaksanakan program rehabilitasi lingkungan strategis, PT. IBP bisa mencapai tingkat keberlanjutan yang lebih tinggi. Selain itu, penelitian ini menyoroti peran penting penegakan peraturan dan tanggung jawab perusahaan dalam menjaga pertambangan berkelanjutan operasi. Kombinasi kerangka kelembagaan yang kuat dan keterlibatan masyarakat akan memastikan hasil yang lebih berkelanjutan dalam jangka panjang.

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| NO. | NORTHING    | EASTING    | ELEVASI | CODE  | PPV AKTUAL |
|-----|-------------|------------|---------|-------|------------|
| 1   | 9966089,377 | 521531,308 | 126,318 | DH 1  | 3,54       |
| 2   | 9966093,080 | 521527,282 | 125,521 | DH 2  | 3,54       |
| 3   | 9966088,335 | 521526,349 | 126,702 | DH 3  | 3,54       |
| 4   | 9966084,729 | 521529,768 | 128,087 | DH 4  | 3,54       |
| 5   | 9966092,865 | 521522,536 | 126,043 | DH 5  | 3,54       |
| 6   | 9966088,117 | 521520,931 | 127,288 | DH 6  | 3,54       |
| 7   | 9966087,591 | 521516,155 | 127,211 | DH 7  | 3,54       |
| 8   | 9966091,692 | 521517,466 | 126,559 | DH 8  | 3,54       |
| 9   | 9966089,780 | 521512,123 | 127,162 | DH 9  | 3,54       |
| 10  | 9966085,515 | 521511,604 | 128,303 | DH 10 | 3,54       |
| 11  | 9966093,920 | 521513,872 | 126,392 | DH 11 | 3,54       |
| 12  | 9966089,220 | 521507,544 | 127,768 | DH 12 | 3,54       |
| 13  | 9966084,058 | 521506,493 | 128,404 | DH 13 | 3,54       |
| 14  | 9966093,282 | 521508,275 | 126,765 | DH 14 | 3,54       |
| 15  | 9966088,540 | 521502,397 | 127,606 | DH 15 | 3,54       |
| 16  | 9966079,932 | 521505,047 | 129,244 | DH 16 | 3,54       |
| 17  | 9966093,066 | 521503,736 | 126,581 | DH 17 | 3,54       |
| 18  | 9966086,797 | 521499,821 | 127,434 | DH 18 | 3,54       |
| 19  | 9966081,072 | 521509,851 | 128,932 | DH 19 | 3,54       |
| 20  | 9966094,740 | 521501,050 | 126,028 | DH 20 | 3,54       |
| 21  | 9966084,104 | 521501,927 | 128,312 | DH 21 | 3,54       |
| 22  | 9966091,744 | 521499,207 | 126,310 | DH 22 | 3,54       |
| 23  | 9966076,069 | 521509,379 | 129,829 | DH 23 | 3,54       |
| 24  | 9966077,709 | 521513,814 | 129,596 | DH 24 | 3,54       |
| 25  | 9966072,384 | 521512,873 | 130,464 | DH 25 | 3,54       |
| 26  | 9966068,360 | 521516,594 | 131,164 | DH 26 | 3,54       |
| 27  | 9966064,372 | 521520,579 | 131,739 | DH 27 | 3,54       |
| 28  | 9966082,228 | 521515,155 | 128,502 | DH 28 | 3,54       |
| 29  | 9966083,307 | 521519,328 | 128,047 | DH 29 | 3,54       |
| 30  | 9966077,998 | 521518,896 | 129,271 | DH 30 | 3,54       |
| 31  | 9966083,981 | 521524,230 | 128,005 | DH 31 | 3,54       |
| 32  | 9966078,273 | 521523,638 | 128,600 | DH 32 | 3,54       |
| 33  | 9966080,022 | 521528,814 | 128,291 | DH 33 | 3,54       |
| 34  | 9966085,815 | 521534,604 | 126,655 | DH 34 | 3,54       |
| 35  | 9966070,847 | 521526,748 | 130,252 | DH 35 | 3,54       |
| 36  | 9966081,150 | 521533,475 | 127,681 | DH 36 | 3,54       |
| 37  | 9966086,457 | 521539,565 | 126,145 | DH 37 | 3,54       |
| 38  | 9966071,361 | 521531,959 | 130,043 | DH 38 | 3,54       |
| 39  | 9966076,655 | 521532,486 | 129,391 | DH 39 | 3,54       |
| 40  | 9966081,596 | 521538,731 | 127,282 | DH 40 | 3,54       |
| 41  | 9966072,205 | 521536,496 | 129,832 | DH 41 | 3,54       |
| 42  | 9966075,015 | 521527,661 | 129,320 | DH 42 | 3,54       |
| 43  | 9966077,839 | 521537,091 | 128,271 | DH 43 | 3,54       |
| 44  | 9966074,046 | 521522,800 | 129,622 | DH 44 | 3,54       |
| 45  | 9966072,831 | 521517,910 | 130,415 | DH 45 | 3,54       |
| 46  | 9966089,574 | 521536,200 | 125,580 | DH 46 | 3,54       |
| 47  | 9966092,939 | 521533,369 | 125,146 | DH 47 | 3,54       |
| 48  | 9966068,537 | 521540,821 | 130,824 | DH 48 | 3,54       |
| 49  | 9966074,078 | 521540,988 | 129,209 | DH 49 | 3,54       |
| 50  | 9966064,012 | 521538,931 | 131,457 | DH 50 | 3,54       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 51  | 9966064,770 | 521543,452 | 131,555 | DH 51  | 3,54       |
| 52  | 9966060,257 | 521542,628 | 132,451 | DH 52  | 3,54       |
| 53  | 9966059,023 | 521537,823 | 132,608 | DH 53  | 3,54       |
| 54  | 9966063,142 | 521534,434 | 131,768 | DH 54  | 3,54       |
| 55  | 9966054,341 | 521533,923 | 133,843 | DH 55  | 3,54       |
| 56  | 9966057,756 | 521533,148 | 132,887 | DH 56  | 3,54       |
| 57  | 9966062,133 | 521529,392 | 132,134 | DH 57  | 3,54       |
| 58  | 9966053,920 | 521536,536 | 133,622 | DH 58  | 3,54       |
| 59  | 9966095,309 | 521547,429 | 124,728 | DH 59  | 3,54       |
| 60  | 9966096,347 | 521542,571 | 124,105 | DH 60  | 3,54       |
| 61  | 9966098,793 | 521542,161 | 123,696 | DH 61  | 3,54       |
| 62  | 9966069,836 | 521544,560 | 130,085 | DH 62  | 3,54       |
| 63  | 9966089,083 | 521543,614 | 125,237 | DH 63  | 3,54       |
| 64  | 9966092,292 | 521549,398 | 125,133 | DH 64  | 3,54       |
| 65  | 9966092,292 | 521549,398 | 125,133 | DH 65  | 3,54       |
| 66  | 9966079,498 | 521547,007 | 127,710 | DH 66  | 3,54       |
| 67  | 9966079,883 | 521552,040 | 127,493 | DH 67  | 3,54       |
| 68  | 9966088,673 | 521553,244 | 125,808 | DH 68  | 3,54       |
| 69  | 9966075,987 | 521556,123 | 128,299 | DH 69  | 3,54       |
| 70  | 9966085,657 | 521557,295 | 126,415 | DH 70  | 3,54       |
| 71  | 9966080,038 | 521561,075 | 127,494 | DH 71  | 3,54       |
| 72  | 9966075,470 | 521564,572 | 128,199 | DH 72  | 3,54       |
| 73  | 9966067,862 | 521565,022 | 129,222 | DH 73  | 3,54       |
| 74  | 9966067,855 | 521558,897 | 130,131 | DH 74  | 3,54       |
| 75  | 9966071,375 | 521555,209 | 129,306 | DH 75  | 3,54       |
| 76  | 9966066,907 | 521553,606 | 130,573 | DH 76  | 3,54       |
| 77  | 9966062,769 | 521552,482 | 131,814 | DH 77  | 3,54       |
| 78  | 9966057,289 | 521551,889 | 133,071 | DH 78  | 3,54       |
| 79  | 9966054,019 | 521555,442 | 133,392 | DH 79  | 3,54       |
| 80  | 9966048,077 | 521547,188 | 135,361 | DH 80  | 3,54       |
| 81  | 9966048,132 | 521547,140 | 135,364 | DH 81  | 3,54       |
| 82  | 9966052,681 | 521551,613 | 134,180 | DH 82  | 3,54       |
| 83  | 9966044,090 | 521553,606 | 135,957 | DH 83  | 3,54       |
| 84  | 9966047,271 | 521549,698 | 135,618 | DH 84  | 3,54       |
| 85  | 9966052,932 | 521545,171 | 134,131 | DH 85  | 3,54       |
| 86  | 9966049,952 | 521543,542 | 134,705 | DH 86  | 3,54       |
| 87  | 9966055,714 | 521541,606 | 133,543 | DH 87  | 3,54       |
| 88  | 9966074,906 | 521546,040 | 128,711 | DH 88  | 3,54       |
| 89  | 9966075,468 | 521550,605 | 128,367 | DH 89  | 3,54       |
| 90  | 9966064,006 | 521557,493 | 131,160 | DH 90  | 3,54       |
| 91  | 9966058,743 | 521555,020 | 132,174 | DH 91  | 3,54       |
| 92  | 9966092,679 | 521545,849 | 124,892 | DH 92  | 3,54       |
| 93  | 9966091,972 | 521541,386 | 124,562 | DH 93  | 3,54       |
| 94  | 9966083,297 | 521543,470 | 126,781 | DH 94  | 3,54       |
| 95  | 9966089,358 | 521548,945 | 125,635 | DH 95  | 3,54       |
| 96  | 9966084,497 | 521548,716 | 126,416 | DH 96  | 3,54       |
| 97  | 9966080,579 | 521556,889 | 127,505 | DH 97  | 3,54       |
| 98  | 9966077,037 | 521561,452 | 128,022 | DH 98  | 3,54       |
| 99  | 9966070,462 | 521549,822 | 129,616 | DH 99  | 3,54       |
| 100 | 9966078,348 | 521541,836 | 128,112 | DH 100 | 3,54       |
| 101 | 9966051,033 | 521540,222 | 134,706 | DH 101 | 3,54       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 102 | 9966351,091 | 521555,857 | 91,375  | DH 102 | 4,03       |
| 103 | 9966351,243 | 521561,521 | 91,432  | DH 103 | 4,03       |
| 104 | 9966351,648 | 521567,091 | 91,568  | DH 104 | 4,03       |
| 105 | 9966351,924 | 521571,192 | 91,209  | DH 105 | 4,03       |
| 106 | 9966356,197 | 521573,295 | 90,698  | DH 106 | 4,03       |
| 107 | 9966360,745 | 521575,823 | 90,226  | DH 107 | 4,03       |
| 108 | 9966364,596 | 521578,467 | 90,492  | DH 108 | 4,03       |
| 109 | 9966368,502 | 521584,824 | 88,884  | DH 109 | 4,03       |
| 110 | 9966339,056 | 521554,850 | 91,344  | DH 110 | 4,03       |
| 111 | 9966341,789 | 521552,286 | 91,552  | DH 111 | 4,03       |
| 112 | 9966342,547 | 521547,616 | 91,558  | DH 112 | 4,03       |
| 113 | 9966339,573 | 521560,495 | 91,811  | DH 113 | 4,03       |
| 114 | 9966343,636 | 521568,214 | 92,103  | DH 114 | 4,03       |
| 115 | 9966347,679 | 521569,703 | 91,970  | DH 115 | 4,03       |
| 116 | 9966343,229 | 521562,739 | 91,805  | DH 116 | 4,03       |
| 117 | 9966335,703 | 521568,718 | 92,290  | DH 117 | 4,03       |
| 118 | 9966343,915 | 521572,405 | 91,877  | DH 118 | 4,03       |
| 119 | 9966347,430 | 521564,784 | 91,838  | DH 119 | 4,03       |
| 120 | 9966330,913 | 521570,636 | 92,161  | DH 120 | 4,03       |
| 121 | 9966340,043 | 521575,321 | 91,896  | DH 121 | 4,03       |
| 122 | 9966331,643 | 521566,729 | 92,366  | DH 122 | 4,03       |
| 123 | 9966331,744 | 521571,415 | 92,641  | DH 123 | 4,03       |
| 124 | 9966336,125 | 521578,003 | 92,397  | DH 124 | 4,03       |
| 125 | 9966327,981 | 521569,705 | 92,586  | DH 125 | 4,03       |
| 126 | 9966330,431 | 521574,229 | 92,715  | DH 126 | 4,03       |
| 127 | 9966332,395 | 521575,775 | 92,396  | DH 127 | 4,03       |
| 128 | 9966335,757 | 521573,601 | 92,355  | DH 128 | 4,03       |
| 129 | 9966352,715 | 521576,390 | 90,700  | DH 129 | 4,03       |
| 130 | 9966360,588 | 521580,636 | 89,817  | DH 130 | 4,03       |
| 131 | 9966361,089 | 521585,938 | 89,233  | DH 131 | 4,03       |
| 132 | 9966356,665 | 521578,751 | 90,300  | DH 132 | 4,03       |
| 133 | 9966352,818 | 521581,299 | 90,479  | DH 133 | 4,03       |
| 134 | 9966356,767 | 521585,060 | 89,790  | DH 134 | 4,03       |
| 135 | 9966364,166 | 521588,429 | 88,530  | DH 135 | 4,03       |
| 136 | 9966353,547 | 521585,232 | 90,181  | DH 136 | 4,03       |
| 137 | 9966349,069 | 521583,879 | 90,467  | DH 137 | 4,03       |
| 138 | 9966348,866 | 521579,236 | 90,643  | DH 138 | 4,03       |
| 139 | 9966349,176 | 521589,152 | 89,723  | DH 139 | 4,03       |
| 140 | 9966348,322 | 521574,188 | 91,232  | DH 140 | 4,03       |
| 141 | 9966344,252 | 521576,943 | 91,146  | DH 141 | 4,03       |
| 142 | 9966345,124 | 521587,551 | 90,392  | DH 142 | 4,03       |
| 143 | 9966344,507 | 521582,417 | 90,692  | DH 143 | 4,03       |
| 144 | 9966340,488 | 521579,728 | 91,288  | DH 144 | 4,03       |
| 145 | 9966341,272 | 521590,873 | 90,452  | DH 145 | 4,03       |
| 146 | 9966341,079 | 521586,362 | 90,749  | DH 146 | 4,03       |
| 147 | 9966349,607 | 521594,982 | 88,761  | DH 147 | 4,03       |
| 148 | 9966346,026 | 521598,656 | 88,495  | DH 148 | 4,03       |
| 149 | 9966349,775 | 521605,188 | 88,224  | DH 149 | 4,03       |
| 150 | 9966349,928 | 521600,110 | 88,224  | DH 150 | 4,03       |
| 151 | 9966342,141 | 521595,628 | 89,368  | DH 151 | 4,03       |
| 152 | 9966331,787 | 521584,917 | 90,121  | DH 152 | 4,03       |
| 153 | 9966341,370 | 521590,735 | 90,346  | DH 153 | 4,03       |
| 154 | 9966330,648 | 521583,413 | 91,825  | DH 154 | 4,03       |

| NO. | NORTHING    | EASTING     | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|-------------|---------|--------|------------|
| 155 | 9966271,545 | 521495,194  | 95,013  | DH 155 | 2,94       |
| 156 | 9966276,396 | 521495,019  | 95,081  | DH 156 | 2,94       |
| 157 | 9966281,755 | 521494,646  | 94,742  | DH 157 | 2,94       |
| 158 | 9966286,886 | 521493,898  | 94,266  | DH 158 | 2,94       |
| 159 | 9966266,616 | 521495,574  | 95,198  | DH 159 | 2,94       |
| 160 | 9966261,369 | 521495,662  | 95,050  | DH 160 | 2,94       |
| 161 | 9966256,483 | 521496,101  | 94,324  | DH 161 | 2,94       |
| 162 | 9966251,974 | 521496,061  | 94,892  | DH 162 | 2,94       |
| 163 | 9966248,225 | 521500,637  | 94,360  | DH 163 | 2,94       |
| 164 | 9966253,644 | 521500,835  | 93,978  | DH 164 | 2,94       |
| 165 | 9966250,914 | 521500,002  | 94,260  | DH 165 | 2,94       |
| 166 | 9966263,689 | 521499,602  | 94,897  | DH 166 | 2,94       |
| 167 | 9966269,293 | 521499,363  | 95,037  | DH 167 | 2,94       |
| 168 | 9966266,961 | 521503,787  | 94,660  | DH 168 | 2,94       |
| 169 | 9966261,380 | 521503,756  | 94,132  | DH 169 | 2,94       |
| 170 | 9966256,830 | 521503,838  | 93,926  | DH 170 | 2,94       |
| 171 | 9966251,681 | 521503,822  | 93,615  | DH 171 | 2,94       |
| 172 | 9966246,974 | 521503,935  | 94,370  | DH 172 | 2,94       |
| 173 | 9966242,940 | 521507,991  | 94,421  | DH 173 | 2,94       |
| 174 | 9966248,580 | 521508,062  | 93,342  | DH 174 | 2,94       |
| 175 | 9966250,380 | 521508,179  | 93,324  | DH 175 | 2,94       |
| 176 | 9966258,545 | 521508,340  | 93,782  | DH 176 | 2,94       |
| 177 | 9966264,421 | 521507,703  | 94,222  | DH 177 | 2,94       |
| 178 | 9966269,291 | 521507,772  | 94,535  | DH 178 | 2,94       |
| 179 | 9966267,223 | 521511,697  | 94,365  | DH 179 | 2,94       |
| 180 | 9966262,263 | 521511,750  | 94,167  | DH 180 | 2,94       |
| 181 | 9966256,140 | 521511,768  | 93,318  | DH 181 | 2,94       |
| 182 | 9966251,683 | 521511,856  | 93,089  | DH 182 | 2,94       |
| 183 | 9966245,974 | 521512,094  | 93,256  | DH 183 | 2,94       |
| 184 | 9966242,076 | 521512,805  | 94,064  | DH 184 | 2,94       |
| 185 | 9966239,084 | 521516,556  | 94,783  | DH 185 | 2,94       |
| 186 | 9966243,844 | 521516,777  | 93,836  | DH 186 | 2,94       |
| 187 | 9966248,474 | 521516,280  | 93,424  | DH 187 | 2,94       |
| 188 | 9966253,622 | 521516,139  | 93,108  | DH 188 | 2,94       |
| 189 | 9966258,970 | 521515,500  | 94,254  | DH 189 | 2,94       |
| 190 | 9966270,171 | 521515,,530 | 94,492  | DH 190 | 2,94       |
| 191 | 9966272,892 | 521518,769  | 94,137  | DH 191 | 2,94       |
| 192 | 9966276,123 | 521522,438  | 93,447  | DH 192 | 2,94       |
| 193 | 9966278,827 | 521525,863  | 93,020  | DH 193 | 2,94       |
| 194 | 9966279,465 | 521531,187  | 92,752  | DH 194 | 2,94       |
| 195 | 9966275,500 | 521531,184  | 93,204  | DH 195 | 2,94       |
| 196 | 9966273,068 | 521527,093  | 93,729  | DH 196 | 2,94       |
| 197 | 9966270,304 | 521523,272  | 94,358  | DH 197 | 2,94       |
| 198 | 9966267,614 | 521519,679  | 94,494  | DH 198 | 2,94       |
| 199 | 9966262,645 | 521519,485  | 94,669  | DH 199 | 2,94       |
| 200 | 9966264,978 | 521523,678  | 94,880  | DH 200 | 2,94       |
| 201 | 9966268,720 | 521527,262  | 94,401  | DH 201 | 2,94       |
| 202 | 9966270,356 | 521531,125  | 93,792  | DH 202 | 2,94       |
| 203 | 9966274,530 | 521536,243  | 92,708  | DH 203 | 2,94       |
| 204 | 9966270,004 | 521534,860  | 93,893  | DH 204 | 2,94       |
| 205 | 9966265,854 | 521531,689  | 94,936  | DH 205 | 2,94       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 206 | 9966262,499 | 521527,746 | 94,936  | DH 206 | 2,94       |
| 207 | 9966259,490 | 521524,306 | 94,473  | DH 207 | 2,94       |
| 208 | 9966256,194 | 521519,935 | 93,601  | DH 208 | 2,94       |
| 209 | 9966258,548 | 521525,557 | 94,558  | DH 209 | 2,94       |
| 210 | 9966257,868 | 521528,175 | 94,623  | DH 210 | 2,94       |
| 211 | 9966260,645 | 521532,069 | 94,498  | DH 211 | 2,94       |
| 212 | 9966254,196 | 521533,249 | 92,590  | DH 212 | 2,94       |
| 213 | 9966250,894 | 521535,334 | 91,816  | DH 213 | 2,94       |
| 214 | 9966249,945 | 521531,737 | 92,243  | DH 214 | 2,94       |
| 215 | 9966245,190 | 521532,515 | 92,081  | DH 215 | 2,94       |
| 216 | 9966246,589 | 521529,303 | 93,019  | DH 216 | 2,94       |
| 217 | 9966347,465 | 521554,619 | 88,976  | DH 217 | 2,94       |
| 218 | 9966290,425 | 521497,602 | 93,731  | DH 218 | 2,94       |
| 219 | 9966284,958 | 521498,034 | 93,832  | DH 219 | 2,94       |
| 220 | 9966279,901 | 521498,999 | 94,509  | DH 220 | 2,94       |
| 221 | 9966274,443 | 521498,932 | 94,782  | DH 221 | 2,94       |
| 222 | 9966271,875 | 521503,153 | 94,934  | DH 222 | 2,94       |
| 223 | 9966274,322 | 521507,000 | 94,556  | DH 223 | 2,94       |
| 224 | 9966236,977 | 521520,289 | 94,939  | DH 224 | 2,94       |
| 225 | 9966241,561 | 521520,717 | 94,018  | DH 225 | 2,94       |
| 226 | 9966245,774 | 521521,042 | 93,371  | DH 226 | 2,94       |
| 227 | 9966251,145 | 521520,244 | 93,103  | DH 227 | 2,94       |
| 228 | 9966265,443 | 521515,751 | 94,626  | DH 228 | 2,94       |
| 229 | 9966278,568 | 521519,022 | 93,703  | DH 229 | 2,94       |
| 230 | 9966241,805 | 521530,437 | 93,025  | DH 230 | 2,94       |
| 231 | 9966278,018 | 521511,081 | 94,387  | DH 231 | 2,94       |
| 232 | 9966281,151 | 521514,937 | 93,935  | DH 232 | 2,94       |
| 233 | 9966280,899 | 521506,886 | 94,383  | DH 233 | 2,94       |
| 234 | 9966283,242 | 521502,703 | 94,200  | DH 234 | 2,94       |
| 235 | 9966289,031 | 521501,780 | 93,416  | DH 235 | 2,94       |
| 236 | 9966240,954 | 521523,972 | 93,195  | DH 236 | 2,94       |
| 237 | 9966255,099 | 521524,360 | 93,412  | DH 237 | 2,94       |
| 238 | 9966254,680 | 521529,312 | 93,156  | DH 238 | 2,94       |
| 239 | 9966242,644 | 521527,147 | 93,573  | DH 239 | 2,94       |
| 240 | 9966239,460 | 521525,071 | 93,917  | DH 240 | 2,94       |
| 241 | 9966239,338 | 521525,247 | 93,894  | DH 241 | 2,94       |
| 242 | 9966235,576 | 521525,674 | 94,693  | DH 242 | 2,94       |
| 243 | 9966233,334 | 521529,786 | 94,754  | DH 243 | 2,94       |
| 244 | 9966244,859 | 521525,903 | 93,532  | DH 244 | 2,94       |
| 245 | 9966283,320 | 521510,867 | 94,144  | DH 245 | 2,94       |
| 246 | 9966275,974 | 521515,090 | 94,244  | DH 246 | 2,94       |
| 247 | 9966286,068 | 521506,519 | 93,825  | DH 247 | 2,94       |
| 248 | 9966277,765 | 521502,999 | 94,572  | DH 248 | 2,94       |
| 249 | 9966137,318 | 521506,201 | 113,938 | DH 249 | 2,03       |
| 250 | 9966132,088 | 521507,836 | 114,494 | DH 250 | 2,03       |
| 251 | 9966145,360 | 521508,251 | 113,624 | DH 251 | 2,03       |
| 252 | 9966126,588 | 521511,143 | 115,339 | DH 252 | 2,03       |
| 253 | 9966130,477 | 521513,458 | 115,517 | DH 253 | 2,03       |
| 254 | 9966128,827 | 521518,215 | 115,063 | DH 254 | 2,03       |
| 255 | 9966138,197 | 521520,140 | 114,598 | DH 255 | 2,03       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 256 | 9966124,644 | 521515,022 | 116,926 | DH 256 | 2,03       |
| 257 | 9966123,808 | 521520,062 | 115,320 | DH 257 | 2,03       |
| 258 | 9966142,717 | 521523,277 | 114,227 | DH 258 | 2,03       |
| 259 | 9966121,948 | 521513,192 | 115,425 | DH 259 | 2,03       |
| 260 | 9966119,396 | 521522,796 | 115,725 | DH 260 | 2,03       |
| 261 | 9966120,055 | 521516,868 | 115,382 | DH 261 | 2,03       |
| 262 | 9966132,615 | 521521,468 | 114,043 | DH 262 | 2,03       |
| 263 | 9966115,268 | 521522,845 | 115,157 | DH 263 | 2,03       |
| 264 | 9966115,432 | 521517,879 | 115,976 | DH 264 | 2,03       |
| 265 | 9966129,204 | 521518,714 | 115,062 | DH 265 | 2,03       |
| 266 | 9966112,730 | 521519,723 | 117,651 | DH 266 | 2,03       |
| 267 | 9966127,527 | 521523,746 | 115,082 | DH 267 | 2,03       |
| 268 | 9966117,124 | 521526,438 | 116,290 | DH 268 | 2,03       |
| 269 | 9966117,100 | 521526,442 | 116,257 | DH 269 | 2,03       |
| 270 | 9966123,909 | 521520,168 | 115,317 | DH 270 | 2,03       |
| 271 | 9966116,469 | 521530,709 | 115,817 | DH 271 | 2,03       |
| 272 | 9966122,633 | 521524,942 | 115,525 | DH 272 | 2,03       |
| 273 | 9966126,751 | 521528,250 | 115,004 | DH 273 | 2,03       |
| 274 | 9966121,203 | 521529,825 | 115,266 | DH 274 | 2,03       |
| 275 | 9966114,683 | 521535,767 | 115,704 | DH 275 | 2,03       |
| 276 | 9966125,837 | 521533,263 | 115,150 | DH 276 | 2,03       |
| 277 | 9966120,474 | 521534,898 | 115,394 | DH 277 | 2,03       |
| 278 | 9966113,270 | 521541,186 | 116,508 | DH 278 | 2,03       |
| 279 | 9966130,723 | 521531,417 | 114,850 | DH 279 | 2,03       |
| 280 | 9966132,298 | 521526,615 | 114,772 | DH 280 | 2,03       |
| 281 | 9966129,303 | 521536,514 | 115,998 | DH 281 | 2,03       |
| 282 | 9966136,055 | 521529,824 | 114,567 | DH 282 | 2,03       |
| 283 | 9966134,547 | 521534,756 | 115,924 | DH 283 | 2,03       |
| 284 | 9966140,901 | 521527,687 | 114,506 | DH 284 | 2,03       |
| 285 | 9966139,912 | 521533,272 | 114,809 | DH 285 | 2,03       |
| 286 | 9966146,455 | 521526,424 | 114,276 | DH 286 | 2,03       |
| 287 | 9966145,040 | 521530,915 | 114,646 | DH 287 | 2,03       |
| 288 | 9966122,955 | 521543,127 | 115,352 | DH 288 | 2,03       |
| 289 | 9966118,099 | 521544,533 | 115,895 | DH 289 | 2,03       |
| 290 | 9966128,117 | 521541,295 | 115,307 | DH 290 | 2,03       |
| 291 | 9966112,237 | 521546,209 | 116,243 | DH 291 | 2,03       |
| 292 | 9966133,441 | 521539,590 | 115,393 | DH 292 | 2,03       |
| 293 | 9966111,277 | 521550,585 | 116,570 | DH 293 | 2,03       |
| 294 | 9966138,735 | 521537,837 | 114,979 | DH 294 | 2,03       |
| 295 | 9966165,280 | 521529,125 | 113,184 | DH 295 | 2,03       |
| 296 | 9966144,982 | 521513,522 | 113,658 | DH 296 | 2,03       |
| 297 | 9966141,254 | 521509,640 | 113,737 | DH 297 | 2,03       |
| 298 | 9966136,273 | 521511,395 | 114,054 | DH 298 | 2,03       |
| 299 | 9966142,740 | 521517,400 | 114,174 | DH 299 | 2,03       |
| 300 | 9966140,121 | 521514,509 | 114,182 | DH 300 | 2,03       |
| 301 | 9966134,314 | 521516,618 | 114,994 | DH 301 | 2,03       |
| 302 | 9966136,845 | 521524,909 | 114,512 | DH 302 | 2,03       |
| 303 | 9966118,908 | 521539,990 | 115,442 | DH 303 | 2,03       |
| 304 | 9966124,134 | 521538,181 | 115,312 | DH 304 | 2,03       |
| 305 | 9966148,736 | 521534,264 | 114,498 | DH 305 | 2,03       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 306 | 9966148,667 | 521534,213 | 114,447 | DH 306 | 2,03       |
| 307 | 9966152,126 | 521519,963 | 111,656 | DH 307 | 2,03       |
| 308 | 9966149,619 | 521512,420 | 112,498 | DH 308 | 2,03       |
| 309 | 9966152,077 | 521520,031 | 111,976 | DH 309 | 2,03       |
| 310 | 9966110,923 | 521537,792 | 116,188 | DH 310 | 2,03       |
| 311 | 9966148,326 | 521517,426 | 113,225 | DH 311 | 2,03       |
| 312 | 9966150,893 | 521524,791 | 112,891 | DH 312 | 2,03       |
| 313 | 9966146,924 | 521521,991 | 113,510 | DH 313 | 2,03       |
| 314 | 9966154,395 | 521533,363 | 113,510 | DH 314 | 2,03       |
| 315 | 9966150,918 | 521529,579 | 114,299 | DH 315 | 2,03       |
| 316 | 9966156,036 | 521529,435 | 113,497 | DH 316 | 2,03       |
| 317 | 9966161,648 | 521527,560 | 113,388 | DH 317 | 2,03       |
| 318 | 9966166,206 | 521523,504 | 113,182 | DH 318 | 2,03       |
| 319 | 9966170,394 | 521522,563 | 112,414 | DH 319 | 2,03       |
| 320 | 9966143,995 | 521536,218 | 114,775 | DH 320 | 2,03       |
| 321 | 9966119,712 | 521550,346 | 114,970 | DH 321 | 2,03       |
| 322 | 9966114,015 | 521553,681 | 115,480 | DH 322 | 2,03       |
| 323 | 9966114,646 | 521556,808 | 115,448 | DH 323 | 2,03       |
| 324 | 9966118,125 | 521554,777 | 114,641 | DH 324 | 2,03       |
| 325 | 9966159,729 | 521531,839 | 113,440 | DH 325 | 2,03       |
| 326 | 9966170,384 | 521528,100 | 112,612 | DH 326 | 2,03       |
| 327 | 9966174,686 | 521526,671 | 111,944 | DH 327 | 2,03       |
| 328 | 9966384,319 | 521628,279 | 84,377  | DH 328 | 3,43       |
| 329 | 9966380,305 | 521628,668 | 84,578  | DH 329 | 3,43       |
| 330 | 9966383,407 | 521623,351 | 84,562  | DH 330 | 3,43       |
| 331 | 9966377,061 | 521627,836 | 84,420  | DH 331 | 3,43       |
| 332 | 9966373,435 | 521628,083 | 84,593  | DH 332 | 3,43       |
| 333 | 9966382,778 | 521617,875 | 84,679  | DH 333 | 3,43       |
| 334 | 9966368,849 | 521628,144 | 84,308  | DH 334 | 3,43       |
| 335 | 9966367,103 | 521623,037 | 84,522  | DH 335 | 3,43       |
| 336 | 9966378,874 | 521616,530 | 84,902  | DH 336 | 3,43       |
| 337 | 9966372,181 | 521625,367 | 84,386  | DH 337 | 3,43       |
| 338 | 9966379,832 | 521620,186 | 85,064  | DH 338 | 3,43       |
| 339 | 9966380,204 | 521625,449 | 84,334  | DH 339 | 3,43       |
| 340 | 9966376,298 | 521623,057 | 84,272  | DH 340 | 3,43       |
| 341 | 9966375,311 | 521619,431 | 84,676  | DH 341 | 3,43       |
| 342 | 9966382,891 | 521611,191 | 84,712  | DH 342 | 3,43       |
| 343 | 9966371,023 | 521621,638 | 84,624  | DH 343 | 3,43       |
| 344 | 9966370,538 | 521616,724 | 85,050  | DH 344 | 3,43       |
| 345 | 9966378,414 | 521611,743 | 85,215  | DH 345 | 3,43       |
| 346 | 9966366,779 | 521619,027 | 85,177  | DH 346 | 3,43       |
| 347 | 9966366,550 | 521614,773 | 85,678  | DH 347 | 3,43       |
| 348 | 9966374,670 | 521614,513 | 85,086  | DH 348 | 3,43       |
| 349 | 9966363,734 | 521621,043 | 85,451  | DH 349 | 3,43       |
| 350 | 9966362,019 | 521612,312 | 86,380  | DH 350 | 3,43       |
| 351 | 9966371,492 | 521612,201 | 85,231  | DH 351 | 3,43       |
| 352 | 9966362,191 | 521616,973 | 86,427  | DH 352 | 3,43       |
| 353 | 9966357,353 | 521609,772 | 86,713  | DH 353 | 3,43       |
| 354 | 9966374,668 | 521609,804 | 85,247  | DH 354 | 3,43       |
| 355 | 9966358,514 | 521618,321 | 86,746  | DH 355 | 3,43       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 356 | 9966353,947 | 521607,416 | 86,736  | DH 356 | 3,43       |
| 357 | 9966378,320 | 521606,912 | 85,027  | DH 357 | 3,43       |
| 358 | 9966356,647 | 521616,174 | 87,083  | DH 358 | 3,43       |
| 359 | 9966357,384 | 521604,944 | 86,217  | DH 359 | 3,43       |
| 360 | 9966357,937 | 521614,540 | 86,780  | DH 360 | 3,43       |
| 361 | 9966377,513 | 521602,604 | 84,206  | DH 361 | 3,43       |
| 362 | 9966361,317 | 521607,241 | 85,895  | DH 362 | 3,43       |
| 363 | 9966377,053 | 521597,872 | 84,152  | DH 363 | 3,43       |
| 364 | 9966353,693 | 521612,221 | 87,367  | DH 364 | 3,43       |
| 365 | 9966366,181 | 521610,663 | 85,624  | DH 365 | 3,43       |
| 366 | 9966373,764 | 521595,974 | 85,519  | DH 366 | 3,43       |
| 367 | 9966361,338 | 521607,292 | 85,810  | DH 367 | 3,43       |
| 368 | 9966365,574 | 521604,974 | 85,368  | DH 368 | 3,43       |
| 369 | 9966361,026 | 521602,806 | 85,753  | DH 369 | 3,43       |
| 370 | 9966369,927 | 521606,968 | 85,200  | DH 370 | 3,43       |
| 371 | 9966358,442 | 521602,845 | 87,530  | DH 371 | 3,43       |
| 372 | 9966374,127 | 521605,090 | 85,277  | DH 372 | 3,43       |
| 373 | 9966359,709 | 521600,017 | 85,993  | DH 373 | 3,43       |
| 374 | 9966360,631 | 521597,552 | 85,388  | DH 374 | 3,43       |
| 375 | 9966373,280 | 521600,255 | 84,884  | DH 375 | 3,43       |
| 376 | 9966365,031 | 521600,363 | 85,504  | DH 376 | 3,43       |
| 377 | 9966368,728 | 521602,415 | 85,185  | DH 377 | 3,43       |
| 378 | 9966368,764 | 521597,789 | 85,514  | DH 378 | 3,43       |
| 379 | 9966370,437 | 521593,266 | 86,157  | DH 379 | 3,43       |
| 380 | 9966369,132 | 521592,022 | 86,039  | DH 380 | 3,43       |
| 381 | 9966364,710 | 521593,995 | 85,245  | DH 381 | 3,43       |
| 382 | 9966361,085 | 521592,627 | 85,185  | DH 382 | 3,43       |
| 383 | 9966357,235 | 521594,730 | 85,231  | DH 383 | 3,43       |
| 384 | 9966364,785 | 521589,462 | 84,298  | DH 384 | 3,43       |
| 385 | 9966356,331 | 521599,877 | 85,979  | DH 385 | 3,43       |
| 386 | 9966364,709 | 521585,443 | 83,800  | DH 386 | 3,43       |
| 387 | 9966352,650 | 521602,145 | 85,741  | DH 387 | 3,43       |
| 388 | 9966360,696 | 521588,532 | 84,381  | DH 388 | 3,43       |
| 389 | 9966351,048 | 521606,313 | 85,330  | DH 389 | 3,43       |
| 390 | 9966356,709 | 521590,597 | 85,086  | DH 390 | 3,43       |
| 391 | 9966348,373 | 521607,868 | 84,759  | DH 391 | 3,43       |
| 392 | 9966352,366 | 521592,853 | 85,766  | DH 392 | 3,43       |
| 393 | 9966348,076 | 521604,514 | 84,941  | DH 393 | 3,43       |
| 394 | 9966351,432 | 521587,451 | 85,248  | DH 394 | 3,43       |
| 395 | 9966348,121 | 521594,874 | 85,361  | DH 395 | 3,43       |
| 396 | 9966356,794 | 521585,591 | 84,576  | DH 396 | 3,43       |
| 397 | 9966360,649 | 521583,266 | 84,061  | DH 397 | 3,43       |
| 398 | 9966347,372 | 521589,509 | 85,582  | DH 398 | 3,43       |
| 399 | 9966359,488 | 521579,142 | 84,007  | DH 399 | 3,43       |
| 400 | 9966347,365 | 521584,898 | 85,628  | DH 400 | 3,43       |
| 401 | 9966355,870 | 521580,682 | 84,292  | DH 401 | 3,43       |
| 402 | 9966351,229 | 521582,538 | 85,024  | DH 402 | 3,43       |
| 403 | 9966343,545 | 521589,546 | 85,529  | DH 403 | 3,43       |
| 404 | 9966342,553 | 521592,127 | 85,536  | DH 404 | 3,43       |
| 405 | 9966348,218 | 521599,629 | 85,369  | DH 405 | 3,43       |



| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 406 | 9966344,285 | 521596,981 | 85,407  | DH 406 | 3,43       |
| 407 | 9966340,089 | 521599,772 | 85,460  | DH 407 | 3,43       |
| 408 | 9966113,782 | 521544,085 | 112,243 | DH 408 | 1,90       |
| 409 | 9966112,609 | 521548,479 | 112,183 | DH 409 | 1,90       |
| 410 | 9966111,300 | 521554,112 | 112,681 | DH 410 | 1,90       |
| 411 | 9966114,150 | 521556,956 | 112,305 | DH 411 | 1,90       |
| 412 | 9966109,832 | 521558,850 | 113,830 | DH 412 | 1,90       |
| 413 | 9966105,858 | 521561,090 | 114,411 | DH 413 | 1,90       |
| 414 | 9966109,535 | 521563,873 | 115,449 | DH 414 | 1,90       |
| 415 | 9966105,378 | 521564,997 | 115,937 | DH 415 | 1,90       |
| 416 | 9966108,496 | 521567,638 | 115,582 | DH 416 | 1,90       |
| 417 | 9966112,008 | 521568,938 | 115,089 | DH 417 | 1,90       |
| 418 | 9966112,924 | 521566,330 | 114,926 | DH 418 | 1,90       |
| 419 | 9966252,944 | 521558,403 | 92,159  | DH 419 | 1,90       |
| 420 | 9966252,109 | 521562,776 | 92,273  | DH 420 | 1,90       |
| 421 | 9966248,385 | 521555,225 | 92,270  | DH 421 | 1,90       |
| 422 | 9966244,957 | 521552,910 | 92,415  | DH 422 | 1,90       |
| 423 | 9966247,677 | 521564,492 | 92,919  | DH 423 | 1,90       |
| 424 | 9966245,396 | 521548,595 | 92,116  | DH 424 | 1,90       |
| 425 | 9966247,716 | 521560,066 | 92,612  | DH 425 | 1,90       |
| 426 | 9966243,748 | 521557,329 | 92,787  | DH 426 | 1,90       |
| 427 | 9966114,751 | 521562,944 | 114,297 | DH 427 | 1,90       |
| 428 | 9966118,135 | 521564,541 | 113,407 | DH 428 | 1,90       |
| 429 | 9966243,191 | 521562,593 | 93,381  | DH 429 | 1,90       |
| 430 | 9966239,054 | 521559,774 | 93,404  | DH 430 | 1,90       |
| 431 | 9966119,622 | 521555,707 | 112,335 | DH 431 | 1,90       |
| 432 | 9966241,881 | 521566,314 | 93,490  | DH 432 | 1,90       |
| 433 | 9966238,338 | 521564,424 | 93,603  | DH 433 | 1,90       |
| 434 | 9966121,982 | 521562,015 | 111,948 | DH 434 | 1,90       |
| 435 | 9966123,529 | 521553,833 | 111,594 | DH 435 | 1,90       |
| 436 | 9966233,241 | 521567,241 | 93,481  | DH 436 | 1,90       |
| 437 | 9966234,182 | 521562,143 | 93,623  | DH 437 | 1,90       |
| 438 | 9966115,629 | 521551,828 | 111,631 | DH 438 | 1,90       |
| 439 | 9966229,859 | 521564,008 | 93,433  | DH 439 | 1,90       |
| 440 | 9966230,391 | 521558,910 | 93,416  | DH 440 | 1,90       |
| 441 | 9966120,632 | 521550,677 | 111,478 | DH 441 | 1,90       |
| 442 | 9966116,759 | 521546,992 | 111,715 | DH 442 | 1,90       |
| 443 | 9966225,388 | 521561,404 | 93,686  | DH 443 | 1,90       |
| 444 | 9966226,540 | 521556,538 | 93,383  | DH 444 | 1,90       |
| 445 | 9966122,619 | 521545,637 | 111,394 | DH 445 | 1,90       |
| 446 | 9966118,296 | 521542,581 | 111,470 | DH 446 | 1,90       |
| 447 | 9966222,439 | 521559,007 | 93,864  | DH 447 | 1,90       |
| 448 | 9966223,795 | 521555,182 | 94,970  | DH 448 | 1,90       |
| 449 | 9966126,406 | 521547,698 | 111,202 | DH 449 | 1,90       |
| 450 | 9966114,941 | 521539,559 | 113,369 | DH 450 | 1,90       |
| 451 | 9966234,860 | 521557,149 | 93,696  | DH 451 | 1,90       |
| 452 | 9966231,248 | 521554,846 | 93,509  | DH 452 | 1,90       |
| 453 | 9966127,143 | 521544,365 | 110,947 | DH 453 | 1,90       |
| 454 | 9966123,655 | 521541,361 | 110,573 | DH 454 | 1,90       |
| 455 | 9966236,151 | 521552,846 | 91,399  | DH 455 | 1,90       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 456 | 9966239,707 | 521555,184 | 92,935  | DH 456 | 1,90       |
| 457 | 9966128,105 | 521539,596 | 110,353 | DH 457 | 1,90       |
| 458 | 9966123,654 | 521536,101 | 110,547 | DH 458 | 1,90       |
| 459 | 9966240,284 | 521550,240 | 90,929  | DH 459 | 1,90       |
| 460 | 9966247,484 | 521531,434 | 90,228  | DH 460 | 1,90       |
| 461 | 9966119,635 | 521537,611 | 112,728 | DH 461 | 1,90       |
| 462 | 9966133,678 | 521532,250 | 110,009 | DH 462 | 1,90       |
| 463 | 9966244,860 | 521533,418 | 92,290  | DH 463 | 1,90       |
| 464 | 9966244,277 | 521529,771 | 92,782  | DH 464 | 1,90       |
| 465 | 9966244,222 | 521529,764 | 92,790  | DH 465 | 1,90       |
| 466 | 9966137,992 | 521530,359 | 109,751 | DH 466 | 1,90       |
| 467 | 9966131,486 | 521541,660 | 110,748 | DH 467 | 1,90       |
| 468 | 9966241,381 | 521531,661 | 92,838  | DH 468 | 1,90       |
| 469 | 9966240,359 | 521529,089 | 93,108  | DH 469 | 1,90       |
| 470 | 9966137,348 | 521535,540 | 110,519 | DH 470 | 1,90       |
| 471 | 9966132,745 | 521537,129 | 110,778 | DH 471 | 1,90       |
| 472 | 9966237,293 | 521531,719 | 93,465  | DH 472 | 1,90       |
| 473 | 9966236,907 | 521527,973 | 93,441  | DH 473 | 1,90       |
| 474 | 9966136,324 | 521540,123 | 111,021 | DH 474 | 1,90       |
| 475 | 9966135,696 | 521544,742 | 111,720 | DH 475 | 1,90       |
| 476 | 9966128,498 | 521552,137 | 110,937 | DH 476 | 1,90       |
| 477 | 9966216,656 | 521568,598 | 96,846  | DH 477 | 1,90       |
| 478 | 9966137,972 | 521547,742 | 111,584 | DH 478 | 1,90       |
| 479 | 9966139,370 | 521544,368 | 111,437 | DH 479 | 1,90       |
| 480 | 9966212,170 | 521572,891 | 96,825  | DH 480 | 1,90       |
| 481 | 9966211,912 | 521570,210 | 97,144  | DH 481 | 1,90       |
| 482 | 9966212,163 | 521567,399 | 97,484  | DH 482 | 1,90       |
| 483 | 9966129,004 | 521534,366 | 110,456 | DH 483 | 1,90       |
| 484 | 9966141,485 | 521538,520 | 110,829 | DH 484 | 1,90       |
| 485 | 9966143,314 | 521529,192 | 110,445 | DH 485 | 1,90       |
| 486 | 9966141,966 | 521533,299 | 110,256 | DH 486 | 1,90       |
| 487 | 9966252,175 | 521564,024 | 93,338  | DH 487 | 1,90       |
| 488 | 9966118,518 | 521560,070 | 112,546 | DH 488 | 1,90       |
| 489 | 9966122,751 | 521557,821 | 111,313 | DH 489 | 1,90       |
| 490 | 9966130,641 | 521546,752 | 111,617 | DH 490 | 1,90       |
| 491 | 9966214,446 | 521570,900 | 96,444  | DH 491 | 1,90       |
| 492 | 9966211,290 | 521574,094 | 96,775  | DH 492 | 1,90       |
| 493 | 9966127,816 | 521556,346 | 110,978 | DH 493 | 1,90       |
| 494 | 9966126,966 | 521561,175 | 110,306 | DH 494 | 1,90       |
| 495 | 9966146,061 | 521548,728 | 108,981 | DH 495 | 1,90       |
| 496 | 9966126,962 | 521565,723 | 110,604 | DH 496 | 1,90       |
| 497 | 9966141,579 | 521550,895 | 109,263 | DH 497 | 1,90       |
| 498 | 9966126,119 | 521568,833 | 110,768 | DH 498 | 1,90       |
| 499 | 9966137,199 | 521552,662 | 109,409 | DH 499 | 1,90       |
| 500 | 9966122,700 | 521567,554 | 111,411 | DH 500 | 1,90       |
| 501 | 9966133,298 | 521550,479 | 110,184 | DH 501 | 1,90       |
| 502 | 9966117,800 | 521568,745 | 112,311 | DH 502 | 1,90       |
| 503 | 9966132,764 | 521554,568 | 109,956 | DH 503 | 1,90       |
| 504 | 9966118,442 | 521572,698 | 112,233 | DH 504 | 1,90       |
| 505 | 9966131,367 | 521559,280 | 109,828 | DH 505 | 1,90       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 506 | 9966120,248 | 521574,192 | 112,065 | DH 506 | 1,90       |
| 507 | 9966130,716 | 521563,292 | 109,950 | DH 507 | 1,90       |
| 508 | 9966114,701 | 521572,211 | 112,748 | DH 508 | 1,90       |
| 509 | 9966130,304 | 521566,298 | 110,233 | DH 509 | 1,90       |
| 510 | 9966142,210 | 521546,426 | 110,808 | DH 510 | 1,90       |
| 511 | 9966144,752 | 521541,591 | 111,092 | DH 511 | 1,90       |
| 512 | 9966147,092 | 521544,182 | 110,446 | DH 512 | 1,90       |
| 513 | 9966149,014 | 521539,523 | 110,351 | DH 513 | 1,90       |
| 514 | 9966171,041 | 521673,510 | 90,238  | DH 514 | 2,54       |
| 515 | 9966167,828 | 521668,449 | 89,827  | DH 515 | 2,54       |
| 516 | 9966164,650 | 521664,092 | 89,508  | DH 516 | 2,54       |
| 517 | 9966176,791 | 521671,867 | 90,157  | DH 517 | 2,54       |
| 518 | 9966170,318 | 521663,160 | 89,825  | DH 518 | 2,54       |
| 519 | 9966161,260 | 521659,496 | 89,751  | DH 519 | 2,54       |
| 520 | 9966173,658 | 521667,257 | 89,972  | DH 520 | 2,54       |
| 521 | 9966166,711 | 521658,635 | 89,755  | DH 521 | 2,54       |
| 522 | 9966171,990 | 521657,586 | 89,834  | DH 522 | 2,54       |
| 523 | 9966175,661 | 521661,903 | 90,085  | DH 523 | 2,54       |
| 524 | 9966178,954 | 521666,425 | 90,200  | DH 524 | 2,54       |
| 525 | 9966177,798 | 521656,594 | 90,155  | DH 525 | 2,54       |
| 526 | 9966181,286 | 521661,010 | 90,250  | DH 526 | 2,54       |
| 527 | 9966184,805 | 521665,310 | 90,519  | DH 527 | 2,54       |
| 528 | 9966183,619 | 521655,347 | 90,304  | DH 528 | 2,54       |
| 529 | 9966186,704 | 521659,619 | 90,395  | DH 529 | 2,54       |
| 530 | 9966189,881 | 521663,605 | 90,608  | DH 530 | 2,54       |
| 531 | 9966188,839 | 521654,033 | 90,340  | DH 531 | 2,54       |
| 532 | 9966191,508 | 521658,257 | 90,555  | DH 532 | 2,54       |
| 533 | 9966194,657 | 521653,228 | 90,215  | DH 533 | 2,54       |
| 534 | 9966197,412 | 521650,450 | 90,130  | DH 534 | 2,54       |
| 535 | 9966190,748 | 521648,541 | 90,369  | DH 535 | 2,54       |
| 536 | 9966196,074 | 521647,161 | 90,115  | DH 536 | 2,54       |
| 537 | 9966198,953 | 521645,714 | 90,049  | DH 537 | 2,54       |
| 538 | 9966185,255 | 521649,773 | 90,495  | DH 538 | 2,54       |
| 539 | 9966192,834 | 521642,759 | 90,285  | DH 539 | 2,54       |
| 540 | 9966201,009 | 521643,269 | 90,183  | DH 540 | 2,54       |
| 541 | 9966194,947 | 521637,403 | 90,178  | DH 541 | 2,54       |
| 542 | 9966198,424 | 521641,781 | 90,415  | DH 542 | 2,54       |
| 543 | 9966196,916 | 521631,671 | 90,481  | DH 543 | 2,54       |
| 544 | 9966201,349 | 521638,761 | 90,359  | DH 544 | 2,54       |
| 545 | 9966181,628 | 521645,572 | 90,739  | DH 545 | 2,54       |
| 546 | 9966198,664 | 521626,467 | 90,536  | DH 546 | 2,54       |
| 547 | 9966200,124 | 521635,789 | 90,546  | DH 547 | 2,54       |
| 548 | 9966176,427 | 521647,177 | 90,853  | DH 548 | 2,54       |
| 549 | 9966200,191 | 521621,362 | 90,142  | DH 549 | 2,54       |
| 550 | 9966203,271 | 521634,341 | 90,532  | DH 550 | 2,54       |
| 551 | 9966179,760 | 521651,050 | 90,289  | DH 551 | 2,54       |
| 552 | 9966202,833 | 521623,249 | 89,798  | DH 552 | 2,54       |
| 553 | 9966202,511 | 521630,352 | 90,385  | DH 553 | 2,54       |
| 554 | 9966174,257 | 521652,480 | 90,278  | DH 554 | 2,54       |
| 555 | 9966196,578 | 521615,983 | 90,434  | DH 555 | 2,54       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 556 | 9966204,437 | 521629,694 | 90,095  | DH 556 | 2,54       |
| 557 | 9966168,941 | 521654,033 | 90,524  | DH 557 | 2,54       |
| 558 | 9966194,723 | 521622,337 | 90,448  | DH 558 | 2,54       |
| 559 | 9966204,288 | 521626,099 | 89,919  | DH 559 | 2,54       |
| 560 | 9966163,236 | 521654,304 | 90,291  | DH 560 | 2,54       |
| 561 | 9966190,818 | 521617,415 | 90,559  | DH 561 | 2,54       |
| 562 | 9966171,107 | 521648,002 | 91,998  | DH 562 | 2,54       |
| 563 | 9966189,035 | 521623,317 | 90,323  | DH 563 | 2,54       |
| 564 | 9966191,331 | 521632,724 | 90,286  | DH 564 | 2,54       |
| 565 | 9966173,187 | 521642,663 | 92,728  | DH 565 | 2,54       |
| 566 | 9966184,923 | 521618,709 | 90,835  | DH 566 | 2,54       |
| 567 | 9966187,549 | 521628,983 | 90,576  | DH 567 | 2,54       |
| 568 | 9966178,417 | 521641,020 | 91,736  | DH 568 | 2,54       |
| 569 | 9966183,717 | 521624,847 | 91,031  | DH 569 | 2,54       |
| 570 | 9966185,684 | 521633,840 | 90,679  | DH 570 | 2,54       |
| 571 | 9966180,267 | 521635,278 | 91,445  | DH 571 | 2,54       |
| 572 | 9966182,115 | 521629,607 | 91,222  | DH 572 | 2,54       |
| 573 | 9966189,201 | 521638,057 | 90,400  | DH 573 | 2,54       |
| 574 | 9966183,997 | 521639,781 | 90,899  | DH 574 | 2,54       |
| 575 | 9966186,896 | 521643,964 | 90,708  | DH 575 | 2,54       |
| 576 | 9966185,478 | 521671,637 | 91,052  | DH 576 | 2,54       |
| 577 | 9966188,051 | 521669,551 | 90,407  | DH 577 | 2,54       |
| 578 | 9966183,314 | 521670,518 | 90,548  | DH 578 | 2,54       |
| 579 | 9966180,155 | 521674,424 | 90,792  | DH 579 | 2,54       |
| 580 | 9966165,605 | 521673,899 | 89,969  | DH 580 | 2,54       |
| 581 | 9966164,643 | 521650,393 | 91,628  | DH 581 | 2,54       |
| 582 | 9966192,785 | 521627,293 | 90,467  | DH 582 | 2,54       |
| 583 | 9966176,277 | 521676,514 | 91,006  | DH 583 | 2,54       |
| 584 | 9966168,491 | 521678,533 | 90,135  | DH 584 | 2,54       |
| 585 | 9966154,705 | 521509,323 | 110,913 | DH 585 | 1,78       |
| 586 | 9966159,272 | 521510,361 | 110,446 | DH 586 | 1,78       |
| 587 | 9966160,282 | 521514,850 | 110,446 | DH 587 | 1,78       |
| 588 | 9966156,385 | 521518,284 | 110,764 | DH 588 | 1,78       |
| 589 | 9966153,996 | 521504,139 | 110,720 | DH 589 | 1,78       |
| 590 | 9966151,989 | 521517,334 | 111,063 | DH 590 | 1,78       |
| 591 | 9966153,027 | 521499,259 | 111,043 | DH 591 | 1,78       |
| 592 | 9966152,966 | 521522,042 | 110,926 | DH 592 | 1,78       |
| 593 | 9966151,709 | 521495,539 | 111,480 | DH 593 | 1,78       |
| 594 | 9966149,111 | 521521,223 | 111,071 | DH 594 | 1,78       |
| 595 | 9966155,843 | 521495,551 | 110,703 | DH 595 | 1,78       |
| 596 | 9966148,158 | 521516,393 | 111,019 | DH 596 | 1,78       |
| 597 | 9966159,034 | 521492,669 | 110,196 | DH 597 | 1,78       |
| 598 | 9966150,654 | 521512,282 | 111,009 | DH 598 | 1,78       |
| 599 | 9966155,388 | 521513,633 | 111,185 | DH 599 | 1,78       |
| 600 | 9966158,169 | 521523,089 | 110,478 | DH 600 | 1,78       |
| 601 | 9966161,424 | 521519,693 | 110,341 | DH 601 | 1,78       |
| 602 | 9966160,957 | 521532,408 | 109,441 | DH 602 | 1,78       |
| 603 | 9966164,531 | 521529,485 | 109,271 | DH 603 | 1,78       |
| 604 | 9966162,532 | 521537,216 | 109,620 | DH 604 | 1,78       |
| 605 | 9966163,864 | 521539,342 | 109,405 | DH 605 | 1,78       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 606 | 9966165.848 | 521533.692 | 109.135 | DH 606 | 1,78       |
| 607 | 9966167.414 | 521537.693 | 109.180 | DH 607 | 1,78       |
| 608 | 9966170.661 | 521534.920 | 108.581 | DH 608 | 1,78       |
| 609 | 9966169.490 | 521529.899 | 108.381 | DH 609 | 1,78       |
| 610 | 9966171.965 | 521538.790 | 107.689 | DH 610 | 1,78       |
| 611 | 9966168.057 | 521525.566 | 108.511 | DH 611 | 1,78       |
| 612 | 9966175.876 | 521535.999 | 107.246 | DH 612 | 1,78       |
| 613 | 9966171.941 | 521521.820 | 107.766 | DH 613 | 1,78       |
| 614 | 9966172.496 | 521526.646 | 107.484 | DH 614 | 1,78       |
| 615 | 9966173.876 | 521531.172 | 107.666 | DH 615 | 1,78       |
| 616 | 9966178.051 | 521540.676 | 106.880 | DH 616 | 1,78       |
| 617 | 9966178.368 | 521532.671 | 106.962 | DH 617 | 1,78       |
| 618 | 9966181.024 | 521541.586 | 106.501 | DH 618 | 1,78       |
| 619 | 9966177.263 | 521527.763 | 106.821 | DH 619 | 1,78       |
| 620 | 9966180.510 | 521537.230 | 105.818 | DH 620 | 1,78       |
| 621 | 9966176.010 | 521523.136 | 106.955 | DH 621 | 1,78       |
| 622 | 9966182.952 | 521533.574 | 105.725 | DH 622 | 1,78       |
| 623 | 9966175.032 | 521518.874 | 107.601 | DH 623 | 1,78       |
| 624 | 9966186.844 | 521530.144 | 105.207 | DH 624 | 1,78       |
| 625 | 9966179.291 | 521520.314 | 106.413 | DH 625 | 1,78       |
| 626 | 9966181.916 | 521529.162 | 106.041 | DH 626 | 1,78       |
| 627 | 9966180.250 | 521524.620 | 106.150 | DH 627 | 1,78       |
| 628 | 9966184.600 | 521526.224 | 105.699 | DH 628 | 1,78       |
| 629 | 9966183.060 | 521522.033 | 105.912 | DH 629 | 1,78       |
| 630 | 9966185.049 | 521538.388 | 105.302 | DH 630 | 1,78       |
| 631 | 9966187.835 | 521535.247 | 105.090 | DH 631 | 1,78       |
| 632 | 9966186.135 | 521542.828 | 105.502 | DH 632 | 1,78       |
| 633 | 9966189.757 | 521539.239 | 105.019 | DH 633 | 1,78       |
| 634 | 9966188.495 | 521547.238 | 105.346 | DH 634 | 1,78       |
| 635 | 9966191.892 | 521543.818 | 105.55  | DH 635 | 1,78       |
| 636 | 9966182.889 | 521546.881 | 105.107 | DH 636 | 1,78       |
| 637 | 9966193.540 | 521547.678 | 105.729 | DH 637 | 1,78       |
| 638 | 9966192.452 | 521536.729 | 104.741 | DH 638 | 1,78       |
| 639 | 9966197.920 | 521545.512 | 105.309 | DH 639 | 1,78       |
| 640 | 9966210.710 | 521546.983 | 104.201 | DH 640 | 1,78       |
| 641 | 9966201.923 | 521548.645 | 105.509 | DH 641 | 1,78       |
| 642 | 9966208.203 | 521551.134 | 104.654 | DH 642 | 1,78       |
| 643 | 9966204.313 | 521549.675 | 104.680 | DH 643 | 1,78       |
| 644 | 9966210.627 | 521555.167 | 104.574 | DH 644 | 1,78       |
| 645 | 9966205.930 | 521547.648 | 104.091 | DH 645 | 1,78       |
| 646 | 9966212.794 | 521552.104 | 104.468 | DH 646 | 1,78       |
| 647 | 9966209.361 | 521543.453 | 104.105 | DH 647 | 1,78       |
| 648 | 9966211.484 | 521535.476 | 104.980 | DH 648 | 1,78       |
| 649 | 9966203.180 | 521537.589 | 104.375 | DH 649 | 1,78       |
| 650 | 9966159.120 | 521540.639 | 109.377 | DH 650 | 1,78       |
| 651 | 9966157.983 | 521536.413 | 109.748 | DH 651 | 1,78       |
| 652 | 9966155.039 | 521539.733 | 110.132 | DH 652 | 1,78       |
| 653 | 9966157.016 | 521541.504 | 109.794 | DH 653 | 1,78       |
| 654 | 9966149.067 | 521534.195 | 109.909 | DH 654 | 1,78       |
| 655 | 9966153.138 | 521534.812 | 109.744 | DH 655 | 1,78       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 656 | 9966155.251 | 521537.369 | 109.941 | DH 656 | 1,78       |
| 657 | 9966150.394 | 521539.282 | 110.373 | DH 657 | 1,78       |
| 658 | 9966146.889 | 521539.862 | 110.643 | DH 658 | 1,78       |
| 659 | 9966144.664 | 521541.417 | 111.123 | DH 659 | 1,78       |
| 660 | 9966148.820 | 521542.500 | 110.569 | DH 660 | 1,78       |
| 661 | 9966150.670 | 521543.326 | 110.417 | DH 661 | 1,78       |
| 662 | 9966159.056 | 521487.652 | 111.258 | DH 662 | 1,78       |
| 663 | 9966162.628 | 521489.241 | 110.853 | DH 663 | 1,78       |
| 664 | 9966149.704 | 521526.496 | 109.889 | DH 664 | 1,78       |
| 665 | 9966154.879 | 521526.820 | 109.833 | DH 665 | 1,78       |
| 666 | 9966156.664 | 521531.695 | 109.738 | DH 666 | 1,78       |
| 667 | 9966161.093 | 521524.409 | 110.372 | DH 667 | 1,78       |
| 668 | 9966159.758 | 521528.199 | 109.947 | DH 668 | 1,78       |
| 669 | 9966161.370 | 521519.823 | 110.362 | DH 669 | 1,78       |
| 670 | 9966150.374 | 521530.716 | 109.467 | DH 670 | 1,78       |
| 671 | 9966169.901 | 521517.140 | 109.703 | DH 671 | 1,78       |
| 672 | 9966173.304 | 521513.709 | 109.178 | DH 672 | 1,78       |
| 673 | 9966165.540 | 521519.914 | 110.262 | DH 673 | 1,78       |
| 674 | 9966168.353 | 521513.485 | 109.937 | DH 674 | 1,78       |
| 675 | 9966164.717 | 521516.590 | 110.105 | DH 675 | 1,78       |
| 676 | 9966163.670 | 521511.628 | 110.321 | DH 676 | 1,78       |
| 677 | 9966161.492 | 521502.188 | 109.999 | DH 677 | 1,78       |
| 678 | 9966162.551 | 521506.821 | 110.341 | DH 678 | 1,78       |
| 679 | 9966160.561 | 521497.465 | 110.027 | DH 679 | 1,78       |
| 680 | 9966177.285 | 521510.861 | 108.823 | DH 680 | 1,78       |
| 681 | 9966175.564 | 521506.254 | 109.018 | DH 681 | 1,78       |
| 682 | 9966170.835 | 521509.625 | 109.517 | DH 682 | 1,78       |
| 683 | 9966174.559 | 521501.314 | 109.263 | DH 683 | 1,78       |
| 684 | 9966170.641 | 521504.453 | 109.562 | DH 684 | 1,78       |
| 685 | 9966165.123 | 521502.611 | 110.083 | DH 685 | 1,78       |
| 686 | 9966169.977 | 521499.810 | 109.414 | DH 686 | 1,78       |
| 687 | 9966165.526 | 521498.500 | 109.646 | DH 687 | 1,78       |
| 688 | 9966164.028 | 521494.067 | 109.744 | DH 688 | 1,78       |
| 689 | 9966238.681 | 521644.388 | 83.876  | DH 689 | 2,41       |
| 690 | 9966241.024 | 521647.506 | 84.074  | DH 690 | 2,41       |
| 691 | 9966239.135 | 521639.829 | 84.319  | DH 691 | 2,41       |
| 692 | 9966242.547 | 521643.387 | 84.444  | DH 692 | 2,41       |
| 693 | 9966242.524 | 521637.758 | 84.487  | DH 693 | 2,41       |
| 694 | 9966246.122 | 521646.623 | 84.392  | DH 694 | 2,41       |
| 695 | 9966246.436 | 521641.674 | 84.310  | DH 695 | 2,41       |
| 696 | 9966246.547 | 521636.159 | 84.007  | DH 696 | 2,41       |
| 697 | 9966250.516 | 521647.640 | 83.576  | DH 697 | 2,41       |
| 698 | 9966250.855 | 521645.043 | 84.025  | DH 698 | 2,41       |
| 699 | 9966251.545 | 521639.781 | 83.609  | DH 699 | 2,41       |
| 700 | 9966251.068 | 521634.168 | 83.384  | DH 700 | 2,41       |
| 701 | 9966254.464 | 521647.268 | 83.290  | DH 701 | 2,41       |
| 702 | 9966255.497 | 521643.345 | 83.168  | DH 702 | 2,41       |
| 703 | 9966255.267 | 521637.763 | 82.948  | DH 703 | 2,41       |
| 704 | 9966255.209 | 521632.580 | 82.701  | DH 704 | 2,41       |
| 705 | 9966257.572 | 521646.934 | 82.942  | DH 705 | 2,41       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 706 | 9966259.346 | 521641.286 | 82.582  | DH 706 | 2,41       |
| 707 | 9966259.487 | 521635.504 | 82.175  | DH 707 | 2,41       |
| 708 | 9966259.510 | 521630.896 | 81.866  | DH 708 | 2,41       |
| 709 | 9966259.126 | 521644.750 | 82.740  | DH 709 | 2,41       |
| 710 | 9966263.280 | 521639.396 | 81.848  | DH 710 | 2,41       |
| 711 | 9966263.303 | 521629.012 | 81.561  | DH 711 | 2,41       |
| 712 | 9966261.899 | 521642.204 | 82.161  | DH 712 | 2,41       |
| 713 | 9966266.466 | 521636.532 | 80.896  | DH 713 | 2,41       |
| 714 | 9966267.249 | 521632.360 | 81.051  | DH 714 | 2,41       |
| 715 | 9966268.200 | 521627.109 | 80.781  | DH 715 | 2,41       |
| 716 | 9966264.128 | 521623.438 | 81.041  | DH 716 | 2,41       |
| 717 | 9966269.868 | 521633.042 | 80.627  | DH 717 | 2,41       |
| 718 | 9966270.573 | 521631.085 | 80.528  | DH 718 | 2,41       |
| 719 | 9966269.335 | 521621.458 | 80.371  | DH 719 | 2,41       |
| 720 | 9966259.331 | 521625.207 | 81.642  | DH 720 | 2,41       |
| 721 | 9966273.307 | 521624.859 | 79.881  | DH 721 | 2,41       |
| 722 | 9966278.322 | 521622.563 | 78.888  | DH 722 | 2,41       |
| 723 | 9966264.804 | 521617.970 | 80.802  | DH 723 | 2,41       |
| 724 | 9966255.121 | 521626.861 | 82.396  | DH 724 | 2,41       |
| 725 | 9966260.076 | 521619.996 | 81.387  | DH 725 | 2,41       |
| 726 | 9966251.029 | 521628.506 | 82.961  | DH 726 | 2,41       |
| 727 | 9966263.665 | 521634.245 | 81.662  | DH 727 | 2,41       |
| 728 | 9966274.920 | 521620.025 | 79.524  | DH 728 | 2,41       |
| 729 | 9966254.832 | 521621.669 | 82.135  | DH 729 | 2,41       |
| 730 | 9966246.098 | 521631.167 | 83.774  | DH 730 | 2,41       |
| 731 | 9966251.397 | 521623.182 | 82.740  | DH 731 | 2,41       |
| 732 | 9966246.306 | 521626.013 | 83.580  | DH 732 | 2,41       |
| 733 | 9966270.460 | 521616.624 | 80.140  | DH 733 | 2,41       |
| 734 | 9966279.402 | 521617.434 | 78.932  | DH 734 | 2,41       |
| 735 | 9966283.299 | 521620.684 | 78.313  | DH 735 | 2,41       |
| 736 | 9966240.211 | 521656.639 | 79.800  | DH 736 | 2,41       |
| 737 | 9966245.324 | 521654.673 | 79.458  | DH 737 | 2,41       |
| 738 | 9966239.836 | 521662.133 | 79.400  | DH 738 | 2,41       |
| 739 | 9966261.871 | 521658.408 | 77.701  | DH 739 | 2,41       |
| 740 | 9966244.810 | 521660.127 | 79.136  | DH 740 | 2,41       |
| 741 | 9966239.747 | 521667.103 | 78.746  | DH 741 | 2,41       |
| 742 | 9966244.196 | 521664.775 | 78.348  | DH 742 | 2,41       |
| 743 | 9966261.440 | 521654.193 | 77.940  | DH 743 | 2,41       |
| 744 | 9966261.372 | 521664.552 | 78.104  | DH 744 | 2,41       |
| 745 | 9966239.841 | 521667.083 | 78.764  | DH 745 | 2,41       |
| 746 | 9966243.525 | 521669.959 | 77.996  | DH 746 | 2,41       |
| 747 | 9966265.451 | 521667.759 | 78.253  | DH 747 | 2,41       |
| 748 | 9966257.912 | 521655.608 | 78.645  | DH 748 | 2,41       |
| 749 | 9966239.327 | 521671.897 | 78.858  | DH 749 | 2,41       |
| 750 | 9966242.876 | 521674.415 | 77.553  | DH 750 | 2,41       |
| 751 | 9966264.763 | 521670.806 | 77.867  | DH 751 | 2,41       |
| 752 | 9966254.024 | 521656.567 | 78.951  | DH 752 | 2,41       |
| 753 | 9966238.267 | 521676.898 | 78.711  | DH 753 | 2,41       |
| 754 | 9966242.332 | 521678.451 | 77.241  | DH 754 | 2,41       |
| 755 | 9966261.078 | 521668.794 | 78.017  | DH 755 | 2,41       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 756 | 9966258.183 | 521659.924 | 78.288  | DH 756 | 2,41       |
| 757 | 9966246.523 | 521677.490 | 77.386  | DH 757 | 2,41       |
| 758 | 9966250.479 | 521678.859 | 77.496  | DH 758 | 2,41       |
| 759 | 9966257.130 | 521665.019 | 78.072  | DH 759 | 2,41       |
| 760 | 9966253.384 | 521662.365 | 78.292  | DH 760 | 2,41       |
| 761 | 9966247.518 | 521672.997 | 77.724  | DH 761 | 2,41       |
| 762 | 9966251.192 | 521675.433 | 77.604  | DH 762 | 2,41       |
| 763 | 9966256.670 | 521669.632 | 77.966  | DH 763 | 2,41       |
| 764 | 9966252.463 | 521666.231 | 78.022  | DH 764 | 2,41       |
| 765 | 9966247.882 | 521667.853 | 78.024  | DH 765 | 2,41       |
| 766 | 9966251.552 | 521670.774 | 77.64   | DH 766 | 2,41       |
| 767 | 9966259.789 | 521672.433 | 78.229  | DH 767 | 2,41       |
| 768 | 9966248.888 | 521663.416 | 78.361  | DH 768 | 2,41       |
| 769 | 9966251.533 | 521670.758 | 77.615  | DH 769 | 2,41       |
| 770 | 9966255.637 | 521673.704 | 77.913  | DH 770 | 2,41       |
| 771 | 9966255.603 | 521678.153 | 77.774  | DH 771 | 2,41       |
| 772 | 9966258.200 | 521676.655 | 77.807  | DH 772 | 2,41       |
| 773 | 9966265.465 | 521664.566 | 78.793  | DH 773 | 2,41       |
| 774 | 9966125.017 | 521651.910 | 96.290  | DH 774 | 2,61       |
| 775 | 9966130.763 | 521653.063 | 96.574  | DH 775 | 2,61       |
| 776 | 9966109.063 | 521668.659 | 93.985  | DH 776 | 2,61       |
| 777 | 9966113.448 | 521669.772 | 93.463  | DH 777 | 2,61       |
| 778 | 9966119.500 | 521650.650 | 96.458  | DH 778 | 2,61       |
| 779 | 9966139.706 | 521651.962 | 95.809  | DH 779 | 2,61       |
| 780 | 9966104.365 | 521672.542 | 93.248  | DH 780 | 2,61       |
| 781 | 9966113.811 | 521675.288 | 93.245  | DH 781 | 2,61       |
| 782 | 9966119.117 | 521644.715 | 96.720  | DH 782 | 2,61       |
| 783 | 9966142.957 | 521652.593 | 95.645  | DH 783 | 2,61       |
| 784 | 9966098.997 | 521671.531 | 94.462  | DH 784 | 2,61       |
| 785 | 9966110.334 | 521674.226 | 93.701  | DH 785 | 2,61       |
| 786 | 9966123.782 | 521646.489 | 96.647  | DH 786 | 2,61       |
| 787 | 9966134.974 | 521648.831 | 95.986  | DH 787 | 2,61       |
| 788 | 9966093.555 | 521669.767 | 94.695  | DH 788 | 2,61       |
| 789 | 9966106.148 | 521678.265 | 93.622  | DH 789 | 2,61       |
| 790 | 9966129.292 | 521647.594 | 96.277  | DH 790 | 2,61       |
| 791 | 9966138.568 | 521644.730 | 96.162  | DH 791 | 2,61       |
| 792 | 9966097.501 | 521665.643 | 94.832  | DH 792 | 2,61       |
| 793 | 9966100.249 | 521677.074 | 94.113  | DH 793 | 2,61       |
| 794 | 9966132.946 | 521643.772 | 96.320  | DH 794 | 2,61       |
| 795 | 9966141.535 | 521647.295 | 96.344  | DH 795 | 2,61       |
| 796 | 9966103.225 | 521666.998 | 94.642  | DH 796 | 2,61       |
| 797 | 9966096.147 | 521681.285 | 94.192  | DH 797 | 2,61       |
| 798 | 9966127.742 | 521642.238 | 96.649  | DH 798 | 2,61       |
| 799 | 9966131.787 | 521638.152 | 96.921  | DH 799 | 2,61       |
| 800 | 9966107.526 | 521662.936 | 94.774  | DH 800 | 2,61       |
| 801 | 9966101.350 | 521682.485 | 93.815  | DH 801 | 2,61       |
| 802 | 9966123.648 | 521641.075 | 96.854  | DH 802 | 2,61       |
| 803 | 9966114.955 | 521649.342 | 96.020  | DH 803 | 2,61       |
| 804 | 9966106.389 | 521657.470 | 95.236  | DH 804 | 2,61       |
| 805 | 9966110.582 | 521652.971 | 95.216  | DH 805 | 2,61       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 806 | 9966144.353 | 521625.261 | 97.382  | DH 806 | 2,61       |
| 807 | 9966148.413 | 521620.606 | 97.050  | DH 807 | 2,61       |
| 808 | 9966150.020 | 521626.781 | 97.027  | DH 808 | 2,61       |
| 809 | 9966153.812 | 521621.610 | 96.399  | DH 809 | 2,61       |
| 810 | 9966156.493 | 521611.713 | 96.008  | DH 810 | 2,61       |
| 811 | 9966151.834 | 521616.428 | 96.465  | DH 811 | 2,61       |
| 812 | 9966160.120 | 521607.737 | 95.364  | DH 812 | 2,61       |
| 813 | 9966163.199 | 521623.787 | 95.851  | DH 813 | 2,61       |
| 814 | 9966158.335 | 521617.411 | 96.108  | DH 814 | 2,61       |
| 815 | 9966161.975 | 521613.093 | 95.940  | DH 815 | 2,61       |
| 816 | 9966166.257 | 521608.955 | 95.228  | DH 816 | 2,61       |
| 817 | 9966164.331 | 521603.472 | 95.170  | DH 817 | 2,61       |
| 818 | 9966167.422 | 521614.626 | 95.194  | DH 818 | 2,61       |
| 819 | 9966170.185 | 521604.581 | 94.413  | DH 819 | 2,61       |
| 820 | 9966174.577 | 521599.825 | 93.800  | DH 820 | 2,61       |
| 821 | 9966168.464 | 521598.942 | 94.258  | DH 821 | 2,61       |
| 822 | 9966163.642 | 521619.375 | 95.451  | DH 822 | 2,61       |
| 823 | 9966166.352 | 521619.767 | 95.766  | DH 823 | 2,61       |
| 824 | 9966171.748 | 521609.852 | 94.413  | DH 824 | 2,61       |
| 825 | 9966175.328 | 521606.035 | 93.678  | DH 825 | 2,61       |
| 826 | 9966172.315 | 521594.925 | 93.554  | DH 826 | 2,61       |
| 827 | 9966159.423 | 521623.600 | 96.078  | DH 827 | 2,61       |
| 828 | 9966158.661 | 521627.100 | 96.190  | DH 828 | 2,61       |
| 829 | 9966155.484 | 521627.636 | 96.480  | DH 829 | 2,61       |
| 830 | 9966152.906 | 521633.253 | 97.005  | DH 830 | 2,61       |
| 831 | 9966106.931 | 521683.752 | 93.511  | DH 831 | 2,61       |
| 832 | 9966110.483 | 521679.806 | 93.325  | DH 832 | 2,61       |
| 833 | 9966092.835 | 521684.377 | 94.341  | DH 833 | 2,61       |
| 834 | 9966089.667 | 521686.856 | 94.538  | DH 834 | 2,61       |
| 835 | 9966091.080 | 521678.756 | 94.621  | DH 835 | 2,61       |
| 836 | 9966089.038 | 521681.545 | 94.765  | DH 836 | 2,61       |
| 837 | 9966086.402 | 521676.290 | 95.063  | DH 837 | 2,61       |
| 838 | 9966082.993 | 521680.038 | 95.666  | DH 838 | 2,61       |
| 839 | 9966145.854 | 521630.916 | 97.219  | DH 839 | 2,61       |
| 840 | 9966141.576 | 521634.831 | 97.313  | DH 840 | 2,61       |
| 841 | 9966141.620 | 521641.631 | 96.364  | DH 841 | 2,61       |
| 842 | 9966150.572 | 521631.755 | 97.055  | DH 842 | 2,61       |
| 843 | 9966141.003 | 521630.328 | 97.494  | DH 843 | 2,61       |
| 844 | 9966136.060 | 521634.095 | 97.322  | DH 844 | 2,61       |
| 845 | 9966085.599 | 521730.518 | 98.788  | DH 845 | 1,78       |
| 846 | 9966080.232 | 521728.907 | 99.653  | DH 846 | 1,78       |
| 847 | 9966076.453 | 521733.075 | 100.649 | DH 847 | 1,78       |
| 848 | 9966081.699 | 521734.827 | 99.644  | DH 848 | 1,78       |
| 849 | 9966077.260 | 521738.563 | 100.735 | DH 849 | 1,78       |
| 850 | 9966072.111 | 521737.116 | 101.481 | DH 850 | 1,78       |
| 851 | 9966074.124 | 521748.048 | 101.411 | DH 851 | 1,78       |
| 852 | 9966073.006 | 521742.798 | 101.329 | DH 852 | 1,78       |
| 853 | 9966067.666 | 521741.187 | 101.864 | DH 853 | 1,78       |
| 854 | 9966070.041 | 521752.559 | 102.328 | DH 854 | 1,78       |
| 855 | 9966069.049 | 521746.941 | 102.216 | DH 855 | 1,78       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 856 | 9966065.062 | 521745.556 | 102.111 | DH 856 | 1,78       |
| 857 | 9966066.631 | 521755.080 | 102.821 | DH 857 | 1,78       |
| 858 | 9966064.607 | 521750.677 | 102.513 | DH 858 | 1,78       |
| 859 | 9966076.836 | 521759.660 | 101.784 | DH 859 | 1,78       |
| 860 | 9966081.070 | 521755.567 | 100.891 | DH 860 | 1,78       |
| 861 | 9966077.614 | 521765.008 | 101.825 | DH 861 | 1,78       |
| 862 | 9966082.693 | 521761.046 | 101.091 | DH 862 | 1,78       |
| 863 | 9966086.945 | 521756.480 | 100.140 | DH 863 | 1,78       |
| 864 | 9966078.591 | 521770.284 | 102.197 | DH 864 | 1,78       |
| 865 | 9966087.988 | 521762.325 | 100.892 | DH 865 | 1,78       |
| 866 | 9966092.251 | 521758.381 | 100.427 | DH 866 | 1,78       |
| 867 | 9966083.329 | 521766.935 | 101.498 | DH 867 | 1,78       |
| 868 | 9966096.943 | 521754.161 | 99.650  | DH 868 | 1,78       |
| 869 | 9966097.615 | 521752.737 | 100.308 | DH 869 | 1,78       |
| 870 | 9966101.294 | 521750.148 | 98.408  | DH 870 | 1,78       |
| 871 | 9966105.188 | 521745.681 | 97.741  | DH 871 | 1,78       |
| 872 | 9966109.552 | 521741.381 | 96.923  | DH 872 | 1,78       |
| 873 | 9966093.195 | 521716.457 | 95.892  | DH 873 | 1,78       |
| 874 | 9966096.482 | 521733.601 | 97.209  | DH 874 | 1,78       |
| 875 | 9966090.815 | 521731.847 | 98.197  | DH 875 | 1,78       |
| 876 | 9966101.351 | 521729.062 | 96.183  | DH 876 | 1,78       |
| 877 | 9966092.423 | 521737.736 | 98.177  | DH 877 | 1,78       |
| 878 | 9966086.825 | 521736.192 | 99.097  | DH 878 | 1,78       |
| 879 | 9966082.711 | 521740.245 | 99.563  | DH 879 | 1,78       |
| 880 | 9966084.242 | 521746.157 | 100.011 | DH 880 | 1,78       |
| 881 | 9966087.846 | 521741.989 | 98.978  | DH 881 | 1,78       |
| 882 | 9966078.340 | 521744.335 | 100.469 | DH 882 | 1,78       |
| 883 | 9966079.991 | 521750.023 | 100.724 | DH 883 | 1,78       |
| 884 | 9966075.660 | 521754.011 | 101.519 | DH 884 | 1,78       |
| 885 | 9966072.480 | 521757.422 | 101.941 | DH 885 | 1,78       |
| 886 | 9966085.839 | 521751.654 | 100.167 | DH 886 | 1,78       |
| 887 | 9966089.840 | 521747.705 | 99.394  | DH 887 | 1,78       |
| 888 | 9966095.620 | 521748.844 | 98.707  | DH 888 | 1,78       |
| 889 | 9966090.952 | 521753.131 | 99.681  | DH 889 | 1,78       |
| 890 | 9966094.173 | 521743.064 | 98.457  | DH 890 | 1,78       |
| 891 | 9966098.190 | 521739.204 | 97.670  | DH 891 | 1,78       |
| 892 | 9966103.606 | 521740.442 | 97.179  | DH 892 | 1,78       |
| 893 | 9966108.123 | 521735.260 | 95.938  | DH 893 | 1,78       |
| 894 | 9966107.156 | 521729.480 | 95.701  | DH 894 | 1,78       |
| 895 | 9966099.379 | 521744.566 | 97.896  | DH 895 | 1,78       |
| 896 | 9966102.266 | 521734.499 | 96.661  | DH 896 | 1,78       |
| 897 | 9966095.980 | 521728.066 | 96.857  | DH 897 | 1,78       |
| 898 | 9966105.864 | 521724.775 | 95.434  | DH 898 | 1,78       |
| 899 | 9966100.238 | 521723.758 | 95.919  | DH 899 | 1,78       |
| 900 | 9966104.402 | 521719.486 | 95.255  | DH 900 | 1,78       |
| 901 | 9966094.422 | 521722.122 | 96.694  | DH 901 | 1,78       |
| 902 | 9966098.388 | 521717.600 | 95.648  | DH 902 | 1,78       |
| 903 | 9966097.219 | 521712.364 | 95.295  | DH 903 | 1,78       |
| 904 | 9966088.631 | 521720.742 | 97.373  | DH 904 | 1,78       |
| 905 | 9966089.844 | 521726.797 | 98.053  | DH 905 | 1,78       |

| NO. | NORTHING    | EASTING    | ELEVASI | CODE   | PPV AKTUAL |
|-----|-------------|------------|---------|--------|------------|
| 906 | 9966084.661 | 521724.695 | 98.921  | DH 906 | 1,78       |
| 907 | 9966177.512 | 521503.251 | 108.792 | DH 907 | 1,40       |
| 908 | 9966169.191 | 521497.838 | 108.542 | DH 908 | 1,40       |
| 909 | 9966172.272 | 521498.568 | 108.437 | DH 909 | 1,40       |
| 910 | 9966173.267 | 521503.180 | 108.107 | DH 910 | 1,40       |
| 911 | 9966170.843 | 521504.949 | 107.792 | DH 911 | 1,40       |
| 912 | 9966179.392 | 521508.187 | 107.601 | DH 912 | 1,40       |
| 913 | 9966169.527 | 521501.729 | 108.210 | DH 913 | 1,40       |
| 914 | 9966174.542 | 521507.245 | 107.729 | DH 914 | 1,40       |
| 915 | 9966183.526 | 521508.958 | 107.086 | DH 915 | 1,40       |
| 916 | 9966181.968 | 521505.315 | 107.801 | DH 916 | 1,40       |
| 917 | 9966180.826 | 521501.158 | 108.871 | DH 917 | 1,40       |
| 918 | 9966187.044 | 521510.076 | 106.883 | DH 918 | 1,40       |
| 919 | 9966186.370 | 521506.370 | 107.464 | DH 919 | 1,40       |
| 920 | 9966189.759 | 521503.074 | 107.629 | DH 920 | 1,40       |
| 921 | 9966190.478 | 521507.343 | 107.146 | DH 921 | 1,40       |
| 922 | 9966190.954 | 521511.223 | 106.779 | DH 922 | 1,40       |
| 923 | 9966185.919 | 521501.936 | 108.079 | DH 923 | 1,40       |
| 924 | 9966194.530 | 521507.798 | 106.950 | DH 924 | 1,40       |
| 925 | 9966194.794 | 521512.343 | 106.719 | DH 925 | 1,40       |
| 926 | 9966188.657 | 521498.952 | 108.040 | DH 926 | 1,40       |
| 927 | 9966198.486 | 521509.834 | 106.952 | DH 927 | 1,40       |
| 928 | 9966196.052 | 521515.153 | 107.003 | DH 928 | 1,40       |
| 929 | 9966193.801 | 521503.847 | 107.272 | DH 929 | 1,40       |
| 930 | 9966202.699 | 521510.785 | 105.720 | DH 930 | 1,40       |
| 931 | 9966199.395 | 521513.510 | 106.274 | DH 931 | 1,40       |
| 932 | 9966197.891 | 521505.237 | 107.054 | DH 932 | 1,40       |
| 933 | 9966201.886 | 521506.796 | 106.243 | DH 933 | 1,40       |
| 934 | 9966201.608 | 521502.090 | 106.529 | DH 934 | 1,40       |
| 935 | 9966203.344 | 521498.725 | 106.673 | DH 935 | 1,40       |
| 936 | 9966199.894 | 521496.855 | 107.479 | DH 936 | 1,40       |
| 937 | 9966196.668 | 521500.694 | 107.301 | DH 937 | 1,40       |
| 938 | 9966192.841 | 521500.035 | 107.626 | DH 938 | 1,40       |
| 939 | 9966177.081 | 521499.657 | 109.056 | DH 939 | 1,40       |
| 940 | 9966195.992 | 521496.888 | 107.811 | DH 940 | 1,40       |
| 941 | 9966199.217 | 521493.490 | 107.767 | DH 941 | 1,40       |
| 942 | 9966191.701 | 521495.947 | 108.100 | DH 942 | 1,40       |
| 943 | 9966194.404 | 521493.264 | 108.173 | DH 943 | 1,40       |
| 944 | 9966190.638 | 521491.607 | 108.617 | DH 944 | 1,40       |
| 945 | 9966197.690 | 521490.012 | 108.301 | DH 945 | 1,40       |
| 946 | 9966202.970 | 521490.801 | 107.921 | DH 946 | 1,40       |
| 947 | 9966193.531 | 521488.777 | 108.784 | DH 947 | 1,40       |
| 948 | 9966202.369 | 521486.634 | 108.151 | DH 948 | 1,40       |
| 949 | 9966197.272 | 521485.890 | 108.477 | DH 949 | 1,40       |
| 950 | 9966266.858 | 521647.291 | 76.040  | DH 950 | 2,16       |
| 951 | 9966261.239 | 521646.622 | 76.133  | DH 951 | 2,16       |
| 952 | 9966265.384 | 521641.792 | 76.236  | DH 952 | 2,16       |
| 953 | 9966270.842 | 521642.894 | 76.347  | DH 953 | 2,16       |
| 954 | 9966259.501 | 521640.962 | 76.413  | DH 954 | 2,16       |
| 955 | 9966268.350 | 521638.491 | 76.444  | DH 955 | 2,16       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 956  | 9966273.860 | 521638.346 | 76.608  | DH 956  | 2,16       |
| 957  | 9966255.535 | 521646.168 | 77.021  | DH 957  | 2,16       |
| 958  | 9966271.078 | 521633.782 | 76.670  | DH 958  | 2,16       |
| 959  | 9966279.569 | 521638.747 | 76.389  | DH 959  | 2,16       |
| 960  | 9966252.169 | 521649.677 | 78.106  | DH 960  | 2,16       |
| 961  | 9966269.774 | 521629.110 | 76.772  | DH 961  | 2,16       |
| 962  | 9966282.781 | 521634.122 | 76.640  | DH 962  | 2,16       |
| 963  | 9966249.660 | 521645.596 | 77.686  | DH 963  | 2,16       |
| 964  | 9966266.962 | 521623.246 | 76.960  | DH 964  | 2,16       |
| 965  | 9966281.189 | 521629.732 | 76.696  | DH 965  | 2,16       |
| 966  | 9966245.972 | 521649.886 | 78.349  | DH 966  | 2,16       |
| 967  | 9966271.919 | 521624.340 | 76.957  | DH 967  | 2,16       |
| 968  | 9966278.931 | 521624.551 | 77.172  | DH 968  | 2,16       |
| 969  | 9966253.007 | 521640.921 | 77.617  | DH 969  | 2,16       |
| 970  | 9966275.249 | 521628.845 | 77.076  | DH 970  | 2,16       |
| 971  | 9966277.321 | 521633.847 | 76.696  | DH 971  | 2,16       |
| 972  | 9966256.023 | 521637.058 | 77.286  | DH 972  | 2,16       |
| 973  | 9966261.866 | 521637.787 | 76.352  | DH 973  | 2,16       |
| 974  | 9966276.069 | 521620.561 | 77.688  | DH 974  | 2,16       |
| 975  | 9966265.302 | 521633.048 | 76.769  | DH 975  | 2,16       |
| 976  | 9966258.460 | 521627.678 | 77.854  | DH 976  | 2,16       |
| 977  | 9966259.449 | 521632.341 | 77.085  | DH 977  | 2,16       |
| 978  | 9966252.784 | 521631.287 | 78.147  | DH 978  | 2,16       |
| 979  | 9966250.662 | 521636.131 | 77.902  | DH 979  | 2,16       |
| 980  | 9966254.162 | 521626.261 | 78.199  | DH 980  | 2,16       |
| 981  | 9966247.188 | 521640.416 | 77.756  | DH 981  | 2,16       |
| 982  | 9966243.811 | 521644.679 | 78.142  | DH 982  | 2,16       |
| 983  | 9966247.283 | 521630.841 | 77.914  | DH 983  | 2,16       |
| 984  | 9966241.787 | 521639.567 | 78.599  | DH 984  | 2,16       |
| 985  | 9966244.641 | 521634.815 | 77.936  | DH 985  | 2,16       |
| 986  | 9966298.331 | 521680.684 | 71.060  | DH 986  | 2,16       |
| 987  | 9966294.885 | 521676.534 | 71.910  | DH 987  | 2,16       |
| 988  | 9966302.623 | 521681.495 | 70.984  | DH 988  | 2,16       |
| 989  | 9966288.973 | 521675.885 | 71.941  | DH 989  | 2,16       |
| 990  | 9966306.443 | 521681.657 | 70.793  | DH 990  | 2,16       |
| 991  | 9966305.253 | 521677.153 | 71.222  | DH 991  | 2,16       |
| 992  | 9966291.795 | 521671.422 | 72.267  | DH 992  | 2,16       |
| 993  | 9966300.318 | 521677.240 | 71.482  | DH 993  | 2,16       |
| 994  | 9966294.976 | 521666.694 | 72.287  | DH 994  | 2,16       |
| 995  | 9966303.369 | 521672.678 | 71.794  | DH 995  | 2,16       |
| 996  | 9966298.151 | 521662.795 | 72.184  | DH 996  | 2,16       |
| 997  | 9966308.547 | 521672.799 | 71.563  | DH 997  | 2,16       |
| 998  | 9966300.503 | 521659.702 | 72.300  | DH 998  | 2,16       |
| 999  | 9966306.425 | 521668.111 | 71.806  | DH 999  | 2,16       |
| 1000 | 9966297.924 | 521654.693 | 72.679  | DH 1000 | 2,16       |
| 1001 | 9966303.457 | 521664.463 | 72.065  | DH 1001 | 2,16       |
| 1002 | 9966295.316 | 521657.676 | 72.654  | DH 1002 | 2,16       |
| 1003 | 9966301.024 | 521667.510 | 72.196  | DH 1003 | 2,16       |
| 1004 | 9966292.159 | 521661.933 | 72.556  | DH 1004 | 2,16       |
| 1005 | 9966297.494 | 521671.967 | 71.929  | DH 1005 | 2,16       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1006 | 9966289.262 | 521666.152 | 72.616  | DH 1006 | 2,16       |
| 1007 | 9966286.421 | 521661.046 | 72.992  | DH 1007 | 2,16       |
| 1008 | 9966285.463 | 521669.971 | 72.395  | DH 1008 | 2,16       |
| 1009 | 9966281.727 | 521661.309 | 73.709  | DH 1009 | 2,16       |
| 1010 | 9966284.308 | 521671.922 | 72.394  | DH 1010 | 2,16       |
| 1011 | 9966284.751 | 521665.964 | 72.619  | DH 1011 | 2,16       |
| 1012 | 9966279.399 | 521665.630 | 72.754  | DH 1012 | 2,16       |
| 1013 | 9966279.854 | 521669.148 | 72.379  | DH 1013 | 2,16       |
| 1014 | 9966277.562 | 521662.704 | 73.126  | DH 1014 | 2,16       |
| 1015 | 9966275.584 | 521671.404 | 72.159  | DH 1015 | 2,16       |
| 1016 | 9966273.459 | 521663.502 | 72.850  | DH 1016 | 2,16       |
| 1017 | 9966273.772 | 521668.368 | 72.392  | DH 1017 | 2,16       |
| 1018 | 9966278.913 | 521656.676 | 74.273  | DH 1018 | 2,16       |
| 1019 | 9966286.303 | 521652.135 | 73.550  | DH 1019 | 2,16       |
| 1020 | 9966283.922 | 521657.037 | 73.733  | DH 1020 | 2,16       |
| 1021 | 9966289.561 | 521656.779 | 73.024  | DH 1021 | 2,16       |
| 1022 | 9966281.842 | 521652.936 | 74.455  | DH 1022 | 2,16       |
| 1023 | 9966292.386 | 521653.031 | 72.998  | DH 1023 | 2,16       |
| 1024 | 9966276.112 | 521651.617 | 75.284  | DH 1024 | 2,16       |
| 1025 | 9966295.733 | 521649.976 | 73.225  | DH 1025 | 2,16       |
| 1026 | 9966289.433 | 521648.382 | 73.464  | DH 1026 | 2,16       |
| 1027 | 9966287.281 | 521633.173 | 76.563  | DH 1027 | 2,16       |
| 1028 | 9966285.349 | 521630.414 | 76.808  | DH 1028 | 2,16       |
| 1029 | 9966288.395 | 521625.794 | 77.598  | DH 1029 | 2,16       |
| 1030 | 9966293.153 | 521626.227 | 77.103  | DH 1030 | 2,16       |
| 1031 | 9966291.107 | 521630.916 | 77.541  | DH 1031 | 2,16       |
| 1032 | 9966294.176 | 521635.039 | 77.340  | DH 1032 | 2,16       |
| 1033 | 9966297.706 | 521638.990 | 77.182  | DH 1033 | 2,16       |
| 1034 | 9966299.072 | 521633.895 | 76.549  | DH 1034 | 2,16       |
| 1035 | 9966301.197 | 521630.443 | 76.216  | DH 1035 | 2,16       |
| 1036 | 9966299.030 | 521625.306 | 76.263  | DH 1036 | 2,16       |
| 1037 | 9966296.323 | 521621.032 | 76.401  | DH 1037 | 2,16       |
| 1038 | 9966290.923 | 521622.087 | 77.361  | DH 1038 | 2,16       |
| 1039 | 9966172.006 | 521543.192 | 103.659 | DH 1039 | 1,03       |
| 1040 | 9966171.637 | 521545.605 | 103.918 | DH 1040 | 1,03       |
| 1041 | 9966168.168 | 521544.836 | 104.672 | DH 1041 | 1,03       |
| 1042 | 9966162.101 | 521544.602 | 105.689 | DH 1042 | 1,03       |
| 1043 | 9966166.893 | 521548.994 | 104.888 | DH 1043 | 1,03       |
| 1044 | 9966159.459 | 521546.591 | 106.186 | DH 1044 | 1,03       |
| 1045 | 9966162.095 | 521549.930 | 105.109 | DH 1045 | 1,03       |
| 1046 | 9966166.472 | 521552.762 | 103.705 | DH 1046 | 1,03       |
| 1047 | 9966155.158 | 521546.177 | 106.882 | DH 1047 | 1,03       |
| 1048 | 9966163.288 | 521552.001 | 104.648 | DH 1048 | 1,03       |
| 1049 | 9966156.918 | 521555.938 | 105.974 | DH 1049 | 1,03       |
| 1050 | 9966156.931 | 521549.749 | 106.320 | DH 1050 | 1,03       |
| 1051 | 9966154.035 | 521550.693 | 107.049 | DH 1051 | 1,03       |
| 1052 | 9966150.786 | 521547.705 | 107.134 | DH 1052 | 1,03       |
| 1053 | 9966137.646 | 521534.691 | 107.120 | DH 1053 | 1,03       |
| 1054 | 9966138.082 | 521530.428 | 107.077 | DH 1054 | 1,03       |
| 1055 | 9966137.741 | 521539.866 | 107.605 | DH 1055 | 1,03       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1056 | 9966142.553 | 521537.662 | 107.146 | DH 1056 | 1,03       |
| 1057 | 9966142.040 | 521532.418 | 107.035 | DH 1057 | 1,03       |
| 1058 | 9966137.494 | 521544.858 | 108.229 | DH 1058 | 1,03       |
| 1059 | 9966142.062 | 521542.493 | 107.422 | DH 1059 | 1,03       |
| 1060 | 9966141.804 | 521547.226 | 108.313 | DH 1060 | 1,03       |
| 1061 | 9966137.201 | 521549.371 | 108.810 | DH 1061 | 1,03       |
| 1062 | 9966145.891 | 521549.597 | 107.757 | DH 1062 | 1,03       |
| 1063 | 9966147.047 | 521530.424 | 106.866 | DH 1063 | 1,03       |
| 1064 | 9966146.671 | 521539.868 | 106.669 | DH 1064 | 1,03       |
| 1065 | 9966146.488 | 521544.444 | 107.086 | DH 1065 | 1,03       |
| 1066 | 9966133.713 | 521532.865 | 107.242 | DH 1066 | 1,03       |
| 1067 | 9966133.068 | 521537.530 | 107.425 | DH 1067 | 1,03       |
| 1068 | 9966128.891 | 521535.416 | 107.291 | DH 1068 | 1,03       |
| 1069 | 9966128.796 | 521540.083 | 107.316 | DH 1069 | 1,03       |
| 1070 | 9966124.366 | 521538.106 | 107.322 | DH 1070 | 1,03       |
| 1071 | 9966124.215 | 521542.387 | 107.643 | DH 1071 | 1,03       |
| 1072 | 9966120.102 | 521540.151 | 107.621 | DH 1072 | 1,03       |
| 1073 | 9966119.584 | 521545.012 | 107.723 | DH 1073 | 1,03       |
| 1074 | 9966115.620 | 521542.953 | 107.656 | DH 1074 | 1,03       |
| 1075 | 9966115.516 | 521547.702 | 108.046 | DH 1075 | 1,03       |
| 1076 | 9966115.372 | 521552.537 | 107.978 | DH 1076 | 1,03       |
| 1077 | 9966115.284 | 521557.288 | 108.043 | DH 1077 | 1,03       |
| 1078 | 9966119.756 | 521550.218 | 107.884 | DH 1078 | 1,03       |
| 1079 | 9966110.937 | 521559.908 | 108.613 | DH 1079 | 1,03       |
| 1080 | 9966123.717 | 521548.000 | 107.694 | DH 1080 | 1,03       |
| 1081 | 9966111.250 | 521564.824 | 108.642 | DH 1081 | 1,03       |
| 1082 | 9966128.452 | 521545.077 | 107.614 | DH 1082 | 1,03       |
| 1083 | 9966115.118 | 521562.204 | 108.306 | DH 1083 | 1,03       |
| 1084 | 9966132.888 | 521542.761 | 107.702 | DH 1084 | 1,03       |
| 1085 | 9966115.378 | 521567.071 | 108.421 | DH 1085 | 1,03       |
| 1086 | 9966133.007 | 521547.508 | 108.024 | DH 1086 | 1,03       |
| 1087 | 9966115.208 | 521572.059 | 108.026 | DH 1087 | 1,03       |
| 1088 | 9966128.038 | 521550.300 | 107.882 | DH 1088 | 1,03       |
| 1089 | 9966110.715 | 521569.839 | 108.438 | DH 1089 | 1,03       |
| 1090 | 9966124.020 | 521552.388 | 107.895 | DH 1090 | 1,03       |
| 1091 | 9966108.201 | 521574.149 | 109.313 | DH 1091 | 1,03       |
| 1092 | 9966119.750 | 521555.243 | 107.796 | DH 1092 | 1,03       |
| 1093 | 9966111.316 | 521574.785 | 109.205 | DH 1093 | 1,03       |
| 1094 | 9966119.687 | 521559.799 | 108.204 | DH 1094 | 1,03       |
| 1095 | 9966112.094 | 521579.628 | 109.075 | DH 1095 | 1,03       |
| 1096 | 9966124.475 | 521557.494 | 108.248 | DH 1096 | 1,03       |
| 1097 | 9966115.368 | 521581.011 | 107.731 | DH 1097 | 1,03       |
| 1098 | 9966123.963 | 521561.941 | 108.352 | DH 1098 | 1,03       |
| 1099 | 9966119.779 | 521564.644 | 108.280 | DH 1099 | 1,03       |
| 1100 | 9966119.781 | 521569.297 | 108.055 | DH 1100 | 1,03       |
| 1101 | 9966123.769 | 521567.140 | 108.154 | DH 1101 | 1,03       |
| 1102 | 9966115.348 | 521576.674 | 107.799 | DH 1102 | 1,03       |
| 1103 | 9966120.384 | 521573.999 | 107.331 | DH 1103 | 1,03       |
| 1104 | 9966119.742 | 521578.735 | 107.416 | DH 1104 | 1,03       |
| 1105 | 9966123.937 | 521576.284 | 107.066 | DH 1105 | 1,03       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1106 | 9966131.110 | 521566.084 | 109.420 | DH 1106 | 1,03       |
| 1107 | 9966128.320 | 521564.532 | 109.745 | DH 1107 | 1,03       |
| 1108 | 9966127.707 | 521554.917 | 108.076 | DH 1108 | 1,03       |
| 1109 | 9966132.386 | 521562.081 | 109.555 | DH 1109 | 1,03       |
| 1110 | 9966128.386 | 521559.744 | 109.365 | DH 1110 | 1,03       |
| 1111 | 9966132.080 | 521557.205 | 109.122 | DH 1111 | 1,03       |
| 1112 | 9966132.619 | 521552.363 | 108.700 | DH 1112 | 1,03       |
| 1113 | 9966136.755 | 521559.434 | 109.250 | DH 1113 | 1,03       |
| 1114 | 9966136.811 | 521554.475 | 108.835 | DH 1114 | 1,03       |
| 1115 | 9966141.108 | 521556.977 | 109.010 | DH 1115 | 1,03       |
| 1116 | 9966141.267 | 521552.006 | 108.613 | DH 1116 | 1,03       |
| 1117 | 9966145.475 | 521554.558 | 108.603 | DH 1117 | 1,03       |
| 1118 | 9966150.188 | 521552.182 | 107.655 | DH 1118 | 1,03       |
| 1119 | 9966153.998 | 521554.661 | 106.938 | DH 1119 | 1,03       |
| 1120 | 9966198.742 | 521515.541 | 104.310 | DH 1120 | 1,92       |
| 1121 | 9966201.686 | 521519.204 | 103.891 | DH 1121 | 1,92       |
| 1122 | 9966204.286 | 521523.111 | 103.232 | DH 1122 | 1,92       |
| 1123 | 9966196.791 | 521520.279 | 103.914 | DH 1123 | 1,92       |
| 1124 | 9966199.940 | 521523.884 | 103.000 | DH 1124 | 1,92       |
| 1125 | 9966201.326 | 521527.368 | 103.834 | DH 1125 | 1,92       |
| 1126 | 9966203.364 | 521527.706 | 103.330 | DH 1126 | 1,92       |
| 1127 | 9966196.767 | 521524.103 | 103.990 | DH 1127 | 1,92       |
| 1128 | 9966208.856 | 521527.255 | 103.167 | DH 1128 | 1,92       |
| 1129 | 9966204.185 | 521534.974 | 101.988 | DH 1129 | 1,92       |
| 1130 | 9966206.308 | 521530.764 | 103.168 | DH 1130 | 1,92       |
| 1131 | 9966213.494 | 521527.322 | 104.039 | DH 1131 | 1,92       |
| 1132 | 9966207.352 | 521539.270 | 101.411 | DH 1132 | 1,92       |
| 1133 | 9966210.897 | 521531.114 | 104.301 | DH 1133 | 1,92       |
| 1134 | 9966208.471 | 521534.484 | 102.667 | DH 1134 | 1,92       |
| 1135 | 9966216.361 | 521527.377 | 104.204 | DH 1135 | 1,92       |
| 1136 | 9966214.677 | 521530.137 | 104.790 | DH 1136 | 1,92       |
| 1137 | 9966212.007 | 521538.694 | 101.741 | DH 1137 | 1,92       |
| 1138 | 9966213.450 | 521532.663 | 104.722 | DH 1138 | 1,92       |
| 1139 | 9966200.026 | 521534.845 | 102.405 | DH 1139 | 1,92       |
| 1140 | 9966217.548 | 521541.526 | 101.961 | DH 1140 | 1,92       |
| 1141 | 9966202.098 | 521539.143 | 101.825 | DH 1141 | 1,92       |
| 1142 | 9966216.435 | 521539.058 | 102.088 | DH 1142 | 1,92       |
| 1143 | 9966205.790 | 521543.032 | 101.131 | DH 1143 | 1,92       |
| 1144 | 9966200.394 | 521543.563 | 101.947 | DH 1144 | 1,92       |
| 1145 | 9966215.463 | 521543.159 | 102.098 | DH 1145 | 1,92       |
| 1146 | 9966210.520 | 521543.401 | 100.886 | DH 1146 | 1,92       |
| 1147 | 9966216.874 | 521545.107 | 102.036 | DH 1147 | 1,92       |
| 1148 | 9966208.403 | 521547.699 | 100.945 | DH 1148 | 1,92       |
| 1149 | 9966199.093 | 521547.993 | 101.922 | DH 1149 | 1,92       |
| 1150 | 9966212.592 | 521548.113 | 100.814 | DH 1150 | 1,92       |
| 1151 | 9966214.758 | 521551.828 | 100.538 | DH 1151 | 1,92       |
| 1152 | 9966201.141 | 521551.317 | 101.127 | DH 1152 | 1,92       |
| 1153 | 9966203.049 | 521548.093 | 102.034 | DH 1153 | 1,92       |
| 1154 | 9966206.249 | 521551.899 | 102.249 | DH 1154 | 1,92       |
| 1155 | 9966209.269 | 521556.117 | 101.520 | DH 1155 | 1,92       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1156 | 9966213.589 | 521556.347 | 100.816 | DH 1156 | 1,92       |
| 1157 | 9966195.426 | 521550.359 | 101.990 | DH 1157 | 1,92       |
| 1158 | 9966197.994 | 521538.612 | 101.510 | DH 1158 | 1,92       |
| 1159 | 9966213.504 | 521559.892 | 100.784 | DH 1159 | 1,92       |
| 1160 | 9966210.939 | 521560.390 | 101.239 | DH 1160 | 1,92       |
| 1161 | 9966196.726 | 521543.852 | 101.129 | DH 1161 | 1,92       |
| 1162 | 9966193.056 | 521546.619 | 100.469 | DH 1162 | 1,92       |
| 1163 | 9966196.928 | 521530.861 | 102.998 | DH 1163 | 1,92       |
| 1164 | 9966186.709 | 521538.700 | 100.740 | DH 1164 | 1,92       |
| 1165 | 9966185.085 | 521543.314 | 100.650 | DH 1165 | 1,92       |
| 1166 | 9966190.743 | 521537.454 | 100.656 | DH 1166 | 1,92       |
| 1167 | 9966180.593 | 521543.959 | 101.200 | DH 1167 | 1,92       |
| 1168 | 9966180.557 | 521543.942 | 101.207 | DH 1168 | 1,92       |
| 1169 | 9966184.153 | 521534.683 | 100.829 | DH 1169 | 1,92       |
| 1170 | 9966178.951 | 521548.879 | 101.544 | DH 1170 | 1,92       |
| 1171 | 9966190.747 | 521537.397 | 100.637 | DH 1171 | 1,92       |
| 1172 | 9966183.623 | 521547.729 | 100.987 | DH 1172 | 1,92       |
| 1173 | 9966182.375 | 521539.230 | 101.048 | DH 1173 | 1,92       |
| 1174 | 9966177.206 | 521552.732 | 101.599 | DH 1174 | 1,92       |
| 1175 | 9966181.806 | 521552.362 | 101.074 | DH 1175 | 1,92       |
| 1176 | 9966186.392 | 521551.546 | 101.329 | DH 1176 | 1,92       |
| 1177 | 9966193.331 | 521540.117 | 100.755 | DH 1177 | 1,92       |
| 1178 | 9966190.730 | 521551.403 | 100.652 | DH 1178 | 1,92       |
| 1179 | 9966178.905 | 521555.163 | 101.355 | DH 1179 | 1,92       |
| 1180 | 9966187.035 | 521547.705 | 100.681 | DH 1180 | 1,92       |
| 1181 | 9966191.130 | 521543.275 | 100.389 | DH 1181 | 1,92       |
| 1182 | 9966188.687 | 521609.494 | 91.749  | DH 1182 | 1,90       |
| 1183 | 9966187.532 | 521605.564 | 91.559  | DH 1183 | 1,90       |
| 1184 | 9966183.438 | 521613.026 | 92.460  | DH 1184 | 1,90       |
| 1185 | 9966183.535 | 521608.448 | 91.880  | DH 1185 | 1,90       |
| 1186 | 9966178.917 | 521611.838 | 92.158  | DH 1186 | 1,90       |
| 1187 | 9966174.405 | 521615.175 | 91.769  | DH 1187 | 1,90       |
| 1188 | 9966179.587 | 521617.015 | 92.317  | DH 1188 | 1,90       |
| 1189 | 9966175.103 | 521620.455 | 92.154  | DH 1189 | 1,90       |
| 1190 | 9966173.928 | 521610.399 | 91.817  | DH 1190 | 1,90       |
| 1191 | 9966179.567 | 521621.663 | 93.385  | DH 1191 | 1,90       |
| 1192 | 9966172.586 | 521605.324 | 91.560  | DH 1192 | 1,90       |
| 1193 | 9966176.682 | 521625.517 | 92.568  | DH 1193 | 1,90       |
| 1194 | 9966170.965 | 521601.113 | 91.502  | DH 1194 | 1,90       |
| 1195 | 9966171.209 | 521624.066 | 92.646  | DH 1195 | 1,90       |
| 1196 | 9966167.655 | 521603.974 | 91.762  | DH 1196 | 1,90       |
| 1197 | 9966167.409 | 521627.472 | 93.881  | DH 1197 | 1,90       |
| 1198 | 9966168.765 | 521608.711 | 91.744  | DH 1198 | 1,90       |
| 1199 | 9966171.553 | 521629.372 | 93.799  | DH 1199 | 1,90       |
| 1200 | 9966164.055 | 521607.219 | 91.928  | DH 1200 | 1,90       |
| 1201 | 9966175.171 | 521629.812 | 93.466  | DH 1201 | 1,90       |
| 1202 | 9966164.693 | 521612.157 | 91.999  | DH 1202 | 1,90       |
| 1203 | 9966173.019 | 521634.317 | 94.347  | DH 1203 | 1,90       |
| 1204 | 9966159.888 | 521610.656 | 91.991  | DH 1204 | 1,90       |
| 1205 | 9966167.911 | 521632.497 | 94.609  | DH 1205 | 1,90       |



| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1206 | 9966160.550 | 521615.637 | 91.991  | DH 1206 | 1,90       |
| 1207 | 9966163.619 | 521631.341 | 94.717  | DH 1207 | 1,90       |
| 1208 | 9966161.659 | 521620.632 | 92.046  | DH 1208 | 1,90       |
| 1209 | 9966158.901 | 521635.233 | 95.151  | DH 1209 | 1,90       |
| 1210 | 9966166.174 | 521622.116 | 92.110  | DH 1210 | 1,90       |
| 1211 | 9966163.892 | 521636.154 | 94.727  | DH 1211 | 1,90       |
| 1212 | 9966161.926 | 521625.825 | 92.343  | DH 1212 | 1,90       |
| 1213 | 9966168.730 | 521637.956 | 94.449  | DH 1213 | 1,90       |
| 1214 | 9966157.355 | 521624.299 | 92.271  | DH 1214 | 1,90       |
| 1215 | 9966172.314 | 521638.743 | 94.555  | DH 1215 | 1,90       |
| 1216 | 9966156.874 | 521619.412 | 92.002  | DH 1216 | 1,90       |
| 1217 | 9966168.900 | 521642.093 | 94.894  | DH 1217 | 1,90       |
| 1218 | 9966155.720 | 521614.270 | 91.958  | DH 1218 | 1,90       |
| 1219 | 9966166.053 | 521644.505 | 94.906  | DH 1219 | 1,90       |
| 1220 | 9966152.226 | 521617.778 | 92.015  | DH 1220 | 1,90       |
| 1221 | 9966164.371 | 521641.094 | 94.752  | DH 1221 | 1,90       |
| 1222 | 9966152.298 | 521622.425 | 92.112  | DH 1222 | 1,90       |
| 1223 | 9966160.584 | 521639.225 | 95.146  | DH 1223 | 1,90       |
| 1224 | 9966148.749 | 521622.852 | 92.145  | DH 1224 | 1,90       |
| 1225 | 9966149.014 | 521625.933 | 92.206  | DH 1225 | 1,90       |
| 1226 | 9966153.104 | 521627.869 | 92.312  | DH 1226 | 1,90       |
| 1227 | 9966158.020 | 521629.344 | 92.467  | DH 1227 | 1,90       |
| 1228 | 9966153.956 | 521632.921 | 92.334  | DH 1228 | 1,90       |
| 1229 | 9966149.122 | 521631.156 | 92.348  | DH 1229 | 1,90       |
| 1230 | 9966144.075 | 521629.758 | 92.743  | DH 1230 | 1,90       |
| 1231 | 9966144.886 | 521634.680 | 92.182  | DH 1231 | 1,90       |
| 1232 | 9966140.287 | 521633.058 | 92.760  | DH 1232 | 1,90       |
| 1233 | 9966136.320 | 521637.398 | 93.046  | DH 1233 | 1,90       |
| 1234 | 9966135.980 | 521641.812 | 92.821  | DH 1234 | 1,90       |
| 1235 | 9966158.906 | 521645.570 | 92.753  | DH 1235 | 1,90       |
| 1236 | 9966155.382 | 521643.389 | 92.502  | DH 1236 | 1,90       |
| 1237 | 9966156.559 | 521638.452 | 93.642  | DH 1237 | 1,90       |
| 1238 | 9966155.493 | 521648.164 | 92.281  | DH 1238 | 1,90       |
| 1239 | 9966150.169 | 521641.872 | 92.352  | DH 1239 | 1,90       |
| 1240 | 9966145.482 | 521639.887 | 92.222  | DH 1240 | 1,90       |
| 1241 | 9966140.931 | 521643.780 | 92.539  | DH 1241 | 1,90       |
| 1242 | 9966141.421 | 521648.765 | 92.756  | DH 1242 | 1,90       |
| 1243 | 9966145.781 | 521645.281 | 92.489  | DH 1243 | 1,90       |
| 1244 | 9966150.568 | 521646.955 | 92.448  | DH 1244 | 1,90       |
| 1245 | 9966151.638 | 521652.047 | 92.309  | DH 1245 | 1,90       |
| 1246 | 9966146.276 | 521650.493 | 92.759  | DH 1246 | 1,90       |
| 1247 | 9966147.576 | 521655.654 | 92.427  | DH 1247 | 1,90       |
| 1248 | 9966142.243 | 521654.049 | 92.711  | DH 1248 | 1,90       |
| 1249 | 9966141.300 | 521744.162 | 91.697  | DH 1249 | 1,92       |
| 1250 | 9966144.970 | 521739.635 | 91.478  | DH 1250 | 1,92       |
| 1251 | 9966139.093 | 521738.476 | 91.862  | DH 1251 | 1,92       |
| 1252 | 9966133.541 | 521715.906 | 92.384  | DH 1252 | 1,92       |
| 1253 | 9966137.184 | 521732.890 | 92.119  | DH 1253 | 1,92       |
| 1254 | 9966132.694 | 521711.425 | 92.221  | DH 1254 | 1,92       |
| 1255 | 9966136.586 | 521727.094 | 92.237  | DH 1255 | 1,92       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1256 | 9966131.064 | 521705.260 | 92.226  | DH 1256 | 1,92       |
| 1257 | 9966140.922 | 521728.491 | 92.230  | DH 1257 | 1,92       |
| 1258 | 9966129.142 | 521699.690 | 92.313  | DH 1258 | 1,92       |
| 1259 | 9966134.744 | 521721.920 | 92.301  | DH 1259 | 1,92       |
| 1260 | 9966124.916 | 521703.635 | 92.427  | DH 1260 | 1,92       |
| 1261 | 9966128.381 | 521715.037 | 92.601  | DH 1261 | 1,92       |
| 1262 | 9966126.626 | 521709.357 | 92.467  | DH 1262 | 1,92       |
| 1263 | 9966129.334 | 521720.521 | 92.577  | DH 1263 | 1,92       |
| 1264 | 9966122.365 | 521713.130 | 92.882  | DH 1264 | 1,92       |
| 1265 | 9966130.437 | 521726.054 | 92.561  | DH 1265 | 1,92       |
| 1266 | 9966123.358 | 521718.012 | 92.901  | DH 1266 | 1,92       |
| 1267 | 9966131.790 | 521731.646 | 92.367  | DH 1267 | 1,92       |
| 1268 | 9966125.391 | 521724.390 | 92.901  | DH 1268 | 1,92       |
| 1269 | 9966133.296 | 521737.323 | 92.002  | DH 1269 | 1,92       |
| 1270 | 9966120.344 | 521724.019 | 93.42   | DH 1270 | 1,92       |
| 1271 | 9966135.746 | 521742.769 | 92.182  | DH 1271 | 1,92       |
| 1272 | 9966121.116 | 521729.158 | 93.884  | DH 1272 | 1,92       |
| 1273 | 9966137.990 | 521747.991 | 91.938  | DH 1273 | 1,92       |
| 1274 | 9966125.818 | 521729.707 | 93.468  | DH 1274 | 1,92       |
| 1275 | 9966131.767 | 521747.140 | 93.363  | DH 1275 | 1,92       |
| 1276 | 9966129.952 | 521741.866 | 93.356  | DH 1276 | 1,92       |
| 1277 | 9966116.294 | 521726.481 | 92.159  | DH 1277 | 1,92       |
| 1278 | 9966114.319 | 521722.143 | 94.219  | DH 1278 | 1,92       |
| 1279 | 9966121.482 | 521733.961 | 94.634  | DH 1279 | 1,92       |
| 1280 | 9966112.557 | 521715.934 | 93.954  | DH 1280 | 1,92       |
| 1281 | 9966117.322 | 521731.767 | 94.597  | DH 1281 | 1,92       |
| 1282 | 9966116.003 | 521711.958 | 93.273  | DH 1282 | 1,92       |
| 1283 | 9966112.178 | 521731.494 | 95.195  | DH 1283 | 1,92       |
| 1284 | 9966120.312 | 521707.622 | 92.868  | DH 1284 | 1,92       |
| 1285 | 9966109.259 | 521721.125 | 94.571  | DH 1285 | 1,92       |
| 1286 | 9966113.906 | 521736.458 | 95.448  | DH 1286 | 1,92       |
| 1287 | 9966107.914 | 521735.084 | 96.144  | DH 1287 | 1,92       |
| 1288 | 9966118.612 | 521738.431 | 95.099  | DH 1288 | 1,92       |
| 1289 | 9966109.379 | 521741.148 | 97.015  | DH 1289 | 1,92       |
| 1290 | 9966122.920 | 521740.601 | 94.713  | DH 1290 | 1,92       |
| 1291 | 9966115.185 | 521742.482 | 95.989  | DH 1291 | 1,92       |
| 1292 | 9966125.200 | 521736.218 | 94.177  | DH 1292 | 1,92       |
| 1293 | 9966118.576 | 521744.324 | 95.734  | DH 1293 | 1,92       |
| 1294 | 9966116.682 | 521748.331 | 96.446  | DH 1294 | 1,92       |
| 1295 | 9966111.085 | 521746.858 | 97.141  | DH 1295 | 1,92       |
| 1296 | 9966125.596 | 521745.346 | 94.703  | DH 1296 | 1,92       |
| 1297 | 9966105.546 | 521745.666 | 97.852  | DH 1297 | 1,92       |
| 1298 | 9966106.866 | 521751.239 | 97.915  | DH 1298 | 1,92       |
| 1299 | 9966127.070 | 521749.772 | 94.627  | DH 1299 | 1,92       |
| 1300 | 9966112.271 | 521752.523 | 97.273  | DH 1300 | 1,92       |
| 1301 | 9966107.827 | 521756.668 | 98.097  | DH 1301 | 1,92       |
| 1302 | 9966109.875 | 521762.451 | 98.286  | DH 1302 | 1,92       |
| 1303 | 9966129.098 | 521756.732 | 94.631  | DH 1303 | 1,92       |
| 1304 | 9966111.666 | 521767.009 | 97.973  | DH 1304 | 1,92       |
| 1305 | 9966125.259 | 521760.035 | 95.654  | DH 1305 | 1,92       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1306 | 9966115.163 | 521763.100 | 97.447  | DH 1306 | 1,92       |
| 1307 | 9966123.122 | 521754.705 | 95.579  | DH 1307 | 1,92       |
| 1308 | 9966120.632 | 521764.419 | 96.273  | DH 1308 | 1,92       |
| 1309 | 9966118.514 | 521759.403 | 96.594  | DH 1309 | 1,92       |
| 1310 | 9966113.875 | 521757.582 | 97.198  | DH 1310 | 1,92       |
| 1311 | 9966126.780 | 521497.512 | 117.509 | DH 1311 | 1,40       |
| 1312 | 9966124.607 | 521501.071 | 117.547 | DH 1312 | 1,40       |
| 1313 | 9966123.359 | 521493.357 | 117.615 | DH 1313 | 1,40       |
| 1314 | 9966118.123 | 521506.599 | 117.912 | DH 1314 | 1,40       |
| 1315 | 9966120.894 | 521488.651 | 117.932 | DH 1315 | 1,40       |
| 1316 | 9966114.399 | 521506.440 | 118.565 | DH 1316 | 1,40       |
| 1317 | 9966117.651 | 521484.900 | 118.557 | DH 1317 | 1,40       |
| 1318 | 9966114.774 | 521481.249 | 119.028 | DH 1318 | 1,40       |
| 1319 | 9966115.365 | 521502.496 | 118.296 | DH 1319 | 1,40       |
| 1320 | 9966110.220 | 521481.745 | 119.498 | DH 1320 | 1,40       |
| 1321 | 9966112.615 | 521498.468 | 118.449 | DH 1321 | 1,40       |
| 1322 | 9966113.084 | 521485.146 | 119.057 | DH 1322 | 1,40       |
| 1323 | 9966117.406 | 521497.690 | 117.988 | DH 1323 | 1,40       |
| 1324 | 9966116.012 | 521488.974 | 118.481 | DH 1324 | 1,40       |
| 1325 | 9966121.321 | 521497.355 | 117.875 | DH 1325 | 1,40       |
| 1326 | 9966118.855 | 521492.825 | 117.919 | DH 1326 | 1,40       |
| 1327 | 9966113.930 | 521493.973 | 118.595 | DH 1327 | 1,40       |
| 1328 | 9966111.307 | 521490.132 | 119.039 | DH 1328 | 1,40       |
| 1329 | 9966108.799 | 521486.005 | 119.468 | DH 1329 | 1,40       |
| 1330 | 9966109.148 | 521494.572 | 119.175 | DH 1330 | 1,40       |
| 1331 | 9966105.587 | 521482.025 | 119.632 | DH 1331 | 1,40       |
| 1332 | 9966107.039 | 521499.390 | 118.973 | DH 1332 | 1,40       |
| 1333 | 9966106.940 | 521478.256 | 119.767 | DH 1333 | 1,40       |
| 1334 | 9966102.601 | 521499.750 | 119.541 | DH 1334 | 1,40       |
| 1335 | 9966103.487 | 521478.658 | 120.395 | DH 1335 | 1,40       |
| 1336 | 9966103.979 | 521486.506 | 119.555 | DH 1336 | 1,40       |
| 1337 | 9966106.372 | 521490.718 | 119.461 | DH 1337 | 1,40       |
| 1338 | 9966102.150 | 521491.289 | 119.684 | DH 1338 | 1,40       |
| 1339 | 9966104.515 | 521495.535 | 119.603 | DH 1339 | 1,40       |
| 1340 | 9966099.892 | 521486.519 | 120.092 | DH 1340 | 1,40       |
| 1341 | 9966100.364 | 521495.408 | 119.920 | DH 1341 | 1,40       |
| 1342 | 9966100.766 | 521481.417 | 121.115 | DH 1342 | 1,40       |
| 1343 | 9966099.058 | 521478.371 | 121.924 | DH 1343 | 1,40       |
| 1344 | 9966095.474 | 521495.701 | 120.449 | DH 1344 | 1,40       |
| 1345 | 9966098.455 | 521474.574 | 122.382 | DH 1345 | 1,40       |
| 1346 | 9966097.515 | 521490.882 | 120.146 | DH 1346 | 1,40       |
| 1347 | 9966095.812 | 521478.952 | 121.907 | DH 1347 | 1,40       |
| 1348 | 9966095.618 | 521486.632 | 120.676 | DH 1348 | 1,40       |
| 1349 | 9966096.803 | 521482.266 | 121.876 | DH 1349 | 1,40       |
| 1350 | 9966090.816 | 521487.150 | 121.420 | DH 1350 | 1,40       |
| 1351 | 9966093.022 | 521483.021 | 121.973 | DH 1351 | 1,40       |
| 1352 | 9966091.254 | 521478.711 | 121.830 | DH 1352 | 1,40       |
| 1353 | 9966088.575 | 521474.352 | 121.524 | DH 1353 | 1,40       |
| 1354 | 9966087.853 | 521482.689 | 121.924 | DH 1354 | 1,40       |
| 1355 | 9966087.971 | 521491.200 | 122.140 | DH 1355 | 1,40       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1356 | 9966092.924 | 521491.285 | 121.163 | DH 1356 | 1,40       |
| 1357 | 9966086.194 | 521478.152 | 121.610 | DH 1357 | 1,40       |
| 1358 | 9966083.640 | 521473.391 | 121.478 | DH 1358 | 1,40       |
| 1359 | 9966082.552 | 521482.845 | 121.909 | DH 1359 | 1,40       |
| 1360 | 9966079.058 | 521473.894 | 121.517 | DH 1360 | 1,40       |
| 1361 | 9966081.117 | 521477.808 | 121.575 | DH 1361 | 1,40       |
| 1362 | 9966078.022 | 521482.703 | 121.88  | DH 1362 | 1,40       |
| 1363 | 9966076.287 | 521478.059 | 121.811 | DH 1363 | 1,40       |
| 1364 | 9966073.075 | 521482.886 | 122.347 | DH 1364 | 1,40       |
| 1365 | 9966073.669 | 521473.318 | 121.336 | DH 1365 | 1,40       |
| 1366 | 9966068.895 | 521483.240 | 123.147 | DH 1366 | 1,40       |
| 1367 | 9966069.261 | 521474.058 | 121.996 | DH 1367 | 1,40       |
| 1368 | 9966071.613 | 521477.635 | 121.726 | DH 1368 | 1,40       |
| 1369 | 9966064.784 | 521483.446 | 123.411 | DH 1369 | 1,40       |
| 1370 | 9966066.310 | 521477.693 | 122.639 | DH 1370 | 1,40       |
| 1371 | 9966059.136 | 521483.725 | 123.788 | DH 1371 | 1,40       |
| 1372 | 9966054.416 | 521483.652 | 123.932 | DH 1372 | 1,40       |
| 1373 | 9966054.838 | 521491.847 | 124.986 | DH 1373 | 1,40       |
| 1374 | 9966057.266 | 521488.289 | 124.600 | DH 1374 | 1,40       |
| 1375 | 9966056.590 | 521495.968 | 125.270 | DH 1375 | 1,40       |
| 1376 | 9966061.176 | 521488.022 | 124.249 | DH 1376 | 1,40       |
| 1377 | 9966058.642 | 521492.564 | 124.965 | DH 1377 | 1,40       |
| 1378 | 9966066.169 | 521487.305 | 123.822 | DH 1378 | 1,40       |
| 1379 | 9966061.481 | 521496.249 | 125.075 | DH 1379 | 1,40       |
| 1380 | 9966063.668 | 521492.169 | 124.457 | DH 1380 | 1,40       |
| 1381 | 9966071.027 | 521487.805 | 123.402 | DH 1381 | 1,40       |
| 1382 | 9966066.239 | 521496.237 | 124.701 | DH 1382 | 1,40       |
| 1383 | 9966068.259 | 521492.042 | 124.117 | DH 1383 | 1,40       |
| 1384 | 9966075.590 | 521488.129 | 123.413 | DH 1384 | 1,40       |
| 1385 | 9966071.030 | 521496.035 | 124.341 | DH 1385 | 1,40       |
| 1386 | 9966073.177 | 521492.128 | 124.023 | DH 1386 | 1,40       |
| 1387 | 9966080.464 | 521487.478 | 122.779 | DH 1387 | 1,40       |
| 1388 | 9966076.068 | 521496.194 | 124.136 | DH 1388 | 1,40       |
| 1389 | 9966085.216 | 521487.550 | 122.357 | DH 1389 | 1,40       |
| 1390 | 9966078.043 | 521492.137 | 123.525 | DH 1390 | 1,40       |
| 1391 | 9966080.923 | 521495.979 | 123.485 | DH 1391 | 1,40       |
| 1392 | 9966082.943 | 521491.831 | 122.848 | DH 1392 | 1,40       |
| 1393 | 9966083.147 | 521500.282 | 123.035 | DH 1393 | 1,40       |
| 1394 | 9966081.508 | 521503.919 | 123.495 | DH 1394 | 1,40       |
| 1395 | 9966085.715 | 521496.152 | 122.339 | DH 1395 | 1,40       |
| 1396 | 9966085.931 | 521504.490 | 122.365 | DH 1396 | 1,40       |
| 1397 | 9966087.861 | 521500.114 | 121.999 | DH 1397 | 1,40       |
| 1398 | 9966093.287 | 521500.206 | 120.843 | DH 1398 | 1,40       |
| 1399 | 9966090.770 | 521504.016 | 121.28  | DH 1399 | 1,40       |
| 1400 | 9966098.031 | 521499.893 | 120.067 | DH 1400 | 1,40       |
| 1401 | 9966095.510 | 521504.250 | 120.470 | DH 1401 | 1,40       |
| 1402 | 9966100.398 | 521504.296 | 119.705 | DH 1402 | 1,40       |
| 1403 | 9966102.722 | 521499.779 | 118.355 | DH 1403 | 1,40       |
| 1404 | 9966105.538 | 521503.062 | 119.052 | DH 1404 | 1,40       |
| 1405 | 9966094.366 | 521508.963 | 120.803 | DH 1405 | 1,40       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1406 | 9966110.479 | 521503.267 | 118.708 | DH 1406 | 1,40       |
| 1407 | 9966091.175 | 521507.673 | 121.501 | DH 1407 | 1,40       |
| 1408 | 9966104.412 | 521508.234 | 119.613 | DH 1408 | 1,40       |
| 1409 | 9966099.671 | 521508.824 | 120.203 | DH 1409 | 1,40       |
| 1410 | 9966089.436 | 521506.538 | 123.176 | DH 1410 | 1,40       |
| 1411 | 9966078.373 | 521500.734 | 124.122 | DH 1411 | 1,40       |
| 1412 | 9966087.427 | 521506.366 | 123.810 | DH 1412 | 1,40       |
| 1413 | 9966076.072 | 521504.590 | 124.723 | DH 1413 | 1,40       |
| 1414 | 9966078.338 | 521509.262 | 124.719 | DH 1414 | 1,40       |
| 1415 | 9966070.551 | 521504.903 | 125.518 | DH 1415 | 1,40       |
| 1416 | 9966073.564 | 521509.425 | 125.408 | DH 1416 | 1,40       |
| 1417 | 9966067.015 | 521505.063 | 125.796 | DH 1417 | 1,40       |
| 1418 | 9966063.653 | 521509.037 | 126.567 | DH 1418 | 1,40       |
| 1419 | 9966068.832 | 521509.652 | 126.230 | DH 1419 | 1,40       |
| 1420 | 9966059.328 | 521509.753 | 126.817 | DH 1420 | 1,40       |
| 1421 | 9966054.464 | 521509.547 | 127.235 | DH 1421 | 1,40       |
| 1422 | 9966061.401 | 521505.021 | 126.224 | DH 1422 | 1,40       |
| 1423 | 9966059.117 | 521501.117 | 125.834 | DH 1423 | 1,40       |
| 1424 | 9966063.878 | 521500.872 | 125.473 | DH 1424 | 1,40       |
| 1425 | 9966068.205 | 521500.913 | 125.107 | DH 1425 | 1,40       |
| 1426 | 9966073.115 | 521500.923 | 124.759 | DH 1426 | 1,40       |
| 1427 | 9966071.401 | 521513.560 | 126.074 | DH 1427 | 1,40       |
| 1428 | 9966056.470 | 521513.866 | 127.384 | DH 1428 | 1,40       |
| 1429 | 9966075.741 | 521514.199 | 125.318 | DH 1429 | 1,40       |
| 1430 | 9966051.622 | 521514.047 | 128.175 | DH 1430 | 1,40       |
| 1431 | 9966072.499 | 521517.481 | 126.688 | DH 1431 | 1,40       |
| 1432 | 9966049.252 | 521518.175 | 127.918 | DH 1432 | 1,40       |
| 1433 | 9966068.802 | 521518.199 | 126.598 | DH 1433 | 1,40       |
| 1434 | 9966070.235 | 521521.630 | 127.032 | DH 1434 | 1,40       |
| 1435 | 9966053.778 | 521518.633 | 127.524 | DH 1435 | 1,40       |
| 1436 | 9966072.208 | 521523.016 | 127.651 | DH 1436 | 1,40       |
| 1437 | 9966070.828 | 521526.808 | 127.949 | DH 1437 | 1,40       |
| 1438 | 9966059.277 | 521518.588 | 126.961 | DH 1438 | 1,40       |
| 1439 | 9966068.725 | 521524.855 | 126.984 | DH 1439 | 1,40       |
| 1440 | 9966061.689 | 521522.798 | 127.219 | DH 1440 | 1,40       |
| 1441 | 9966066.354 | 521522.318 | 126.764 | DH 1441 | 1,40       |
| 1442 | 9966066.775 | 521528.841 | 127.332 | DH 1442 | 1,40       |
| 1443 | 9966059.339 | 521527.282 | 127.292 | DH 1443 | 1,40       |
| 1444 | 9966069.831 | 521529.302 | 128.213 | DH 1444 | 1,40       |
| 1445 | 9966062.027 | 521531.181 | 127.218 | DH 1445 | 1,40       |
| 1446 | 9966068.657 | 521531.297 | 128.076 | DH 1446 | 1,40       |
| 1447 | 9966064.664 | 521532.180 | 127.640 | DH 1447 | 1,40       |
| 1448 | 9966059.135 | 521535.475 | 127.551 | DH 1448 | 1,40       |
| 1449 | 9966057.468 | 521531.297 | 127.330 | DH 1449 | 1,40       |
| 1450 | 9966054.894 | 521535.996 | 127.530 | DH 1450 | 1,40       |
| 1451 | 9966049.761 | 521536.465 | 127.677 | DH 1451 | 1,40       |
| 1452 | 9966054.804 | 521527.076 | 127.389 | DH 1452 | 1,40       |
| 1453 | 9966044.650 | 521536.409 | 127.798 | DH 1453 | 1,40       |
| 1454 | 9966039.542 | 521536.909 | 128.247 | DH 1454 | 1,40       |
| 1455 | 9966049.815 | 521527.399 | 127.522 | DH 1455 | 1,40       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1456 | 9966042.509 | 521540.968 | 128.303 | DH 1456 | 1,40       |
| 1457 | 9966044.957 | 521528.244 | 127.782 | DH 1457 | 1,40       |
| 1458 | 9966047.574 | 521540.623 | 127.867 | DH 1458 | 1,40       |
| 1459 | 9966052.897 | 521540.325 | 127.737 | DH 1459 | 1,40       |
| 1460 | 9966057.168 | 521539.668 | 127.666 | DH 1460 | 1,40       |
| 1461 | 9966042.196 | 521532.724 | 127.737 | DH 1461 | 1,40       |
| 1462 | 9966057.098 | 521539.661 | 127.650 | DH 1462 | 1,40       |
| 1463 | 9966058.536 | 521542.990 | 127.744 | DH 1463 | 1,40       |
| 1464 | 9966055.309 | 521544.341 | 127.273 | DH 1464 | 1,40       |
| 1465 | 9966050.589 | 521544.599 | 127.256 | DH 1465 | 1,40       |
| 1466 | 9966052.576 | 521548.654 | 127.480 | DH 1466 | 1,40       |
| 1467 | 9966045.783 | 521544.192 | 128.252 | DH 1467 | 1,40       |
| 1468 | 9966109.136 | 521507.801 | 118.770 | DH 1468 | 1,40       |
| 1469 | 9966117.567 | 521508.146 | 117.804 | DH 1469 | 1,40       |
| 1470 | 9966121.375 | 521505.273 | 117.611 | DH 1470 | 1,40       |
| 1471 | 9966124.390 | 521504.213 | 117.445 | DH 1471 | 1,40       |
| 1472 | 9966122.020 | 521484.305 | 117.977 | DH 1472 | 1,40       |
| 1473 | 9966125.531 | 521489.102 | 117.375 | DH 1473 | 1,40       |
| 1474 | 9966128.238 | 521493.108 | 117.344 | DH 1474 | 1,40       |
| 1475 | 9966127.745 | 521500.888 | 117.292 | DH 1475 | 1,40       |
| 1476 | 9966129.395 | 521498.544 | 117.154 | DH 1476 | 1,40       |
| 1477 | 9966131.960 | 521498.837 | 117.870 | DH 1477 | 1,40       |
| 1478 | 9966131.216 | 521495.803 | 117.156 | DH 1478 | 1,40       |
| 1479 | 9966015.161 | 521592.667 | 141.178 | DH 1479 | 1,89       |
| 1480 | 9966019.570 | 521593.429 | 140.197 | DH 1480 | 1,89       |
| 1481 | 9966018.684 | 521588.964 | 140.634 | DH 1481 | 1,89       |
| 1482 | 9966013.979 | 521587.785 | 141.580 | DH 1482 | 1,89       |
| 1483 | 9966012.214 | 521583.375 | 141.488 | DH 1483 | 1,89       |
| 1484 | 9966016.883 | 521583.897 | 141.022 | DH 1484 | 1,89       |
| 1485 | 9966015.664 | 521579.239 | 141.375 | DH 1485 | 1,89       |
| 1486 | 9966010.488 | 521578.254 | 141.355 | DH 1486 | 1,89       |
| 1487 | 9966009.453 | 521573.609 | 141.351 | DH 1487 | 1,89       |
| 1488 | 9966008.169 | 521568.947 | 140.916 | DH 1488 | 1,89       |
| 1489 | 9966012.635 | 521570.313 | 141.054 | DH 1489 | 1,89       |
| 1490 | 9966014.218 | 521574.764 | 141.428 | DH 1490 | 1,89       |
| 1491 | 9966034.234 | 521570.287 | 136.997 | DH 1491 | 1,89       |
| 1492 | 9966033.416 | 521567.569 | 137.113 | DH 1492 | 1,89       |
| 1493 | 9966037.042 | 521566.116 | 136.268 | DH 1493 | 1,89       |
| 1494 | 9966041.799 | 521567.062 | 135.315 | DH 1494 | 1,89       |
| 1495 | 9966040.633 | 521562.665 | 136.175 | DH 1495 | 1,89       |
| 1496 | 9966042.835 | 521559.501 | 135.649 | DH 1496 | 1,89       |
| 1497 | 9966044.990 | 521563.735 | 134.727 | DH 1497 | 1,89       |
| 1498 | 9966045.819 | 521567.494 | 134.281 | DH 1498 | 1,89       |
| 1499 | 9966047.669 | 521559.709 | 134.313 | DH 1499 | 1,89       |
| 1500 | 9966028.167 | 521609.680 | 136.338 | DH 1500 | 1,89       |
| 1501 | 9966026.949 | 521605.717 | 137.027 | DH 1501 | 1,89       |
| 1502 | 9966029.694 | 521605.595 | 136.304 | DH 1502 | 1,89       |
| 1503 | 9966031.793 | 521600.669 | 136.109 | DH 1503 | 1,89       |
| 1504 | 9966028.838 | 521601.217 | 136.743 | DH 1504 | 1,89       |
| 1505 | 9966030.728 | 521596.787 | 136.435 | DH 1505 | 1,89       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1506 | 9966034.582 | 521597.102 | 135.824 | DH 1506 | 1,89       |
| 1507 | 9966033.044 | 521592.310 | 136.188 | DH 1507 | 1,89       |
| 1508 | 9966037.657 | 521592.110 | 135.218 | DH 1508 | 1,89       |
| 1509 | 9966036.112 | 521587.344 | 135.324 | DH 1509 | 1,89       |
| 1510 | 9966032.108 | 521586.846 | 136.207 | DH 1510 | 1,89       |
| 1511 | 9966034.442 | 521583.525 | 135.682 | DH 1511 | 1,89       |
| 1512 | 9966030.565 | 521573.659 | 137.915 | DH 1512 | 1,89       |
| 1513 | 9966029.840 | 521569.372 | 138.048 | DH 1513 | 1,89       |
| 1514 | 9966024.448 | 521569.579 | 139.091 | DH 1514 | 1,89       |
| 1515 | 9966025.910 | 521573.208 | 138.820 | DH 1515 | 1,89       |
| 1516 | 9966027.750 | 521577.520 | 138.471 | DH 1516 | 1,89       |
| 1517 | 9966024.452 | 521581.526 | 139.571 | DH 1517 | 1,89       |
| 1518 | 9966023.286 | 521576.903 | 139.890 | DH 1518 | 1,89       |
| 1519 | 9966021.709 | 521571.784 | 139.726 | DH 1519 | 1,89       |
| 1520 | 9966017.160 | 521571.586 | 140.629 | DH 1520 | 1,89       |
| 1521 | 9966018.338 | 521575.603 | 140.859 | DH 1521 | 1,89       |
| 1522 | 9966020.281 | 521580.485 | 140.755 | DH 1522 | 1,89       |
| 1523 | 9966021.055 | 521585.203 | 139.931 | DH 1523 | 1,89       |
| 1524 | 9966022.602 | 521590.013 | 139.332 | DH 1524 | 1,89       |
| 1525 | 9966022.620 | 521594.292 | 139.302 | DH 1525 | 1,89       |
| 1526 | 9966021.129 | 521598.593 | 139.624 | DH 1526 | 1,89       |
| 1527 | 9966018.317 | 521601.764 | 140.282 | DH 1527 | 1,89       |
| 1528 | 9966018.836 | 521604.798 | 139.659 | DH 1528 | 1,89       |
| 1529 | 9966016.970 | 521597.537 | 140.837 | DH 1529 | 1,89       |
| 1530 | 9966057.182 | 521562.284 | 132.216 | DH 1530 | 1,89       |
| 1531 | 9966060.274 | 521563.197 | 131.477 | DH 1531 | 1,89       |
| 1532 | 9966059.637 | 521567.711 | 130.997 | DH 1532 | 1,89       |
| 1533 | 9966064.445 | 521569.911 | 129.879 | DH 1533 | 1,89       |
| 1534 | 9966108.219 | 521458.187 | 121.472 | DH 1534 | 1,89       |
| 1535 | 9966100.405 | 521460.454 | 122.712 | DH 1535 | 1,89       |
| 1536 | 9966109.082 | 521451.608 | 120.958 | DH 1536 | 1,89       |
| 1537 | 9966104.453 | 521450.566 | 121.766 | DH 1537 | 1,89       |
| 1538 | 9966103.073 | 521456.782 | 122.175 | DH 1538 | 1,89       |
| 1539 | 9966095.303 | 521459.509 | 123.654 | DH 1539 | 1,89       |
| 1540 | 9966105.468 | 521454.745 | 121.810 | DH 1540 | 1,89       |
| 1541 | 9966101.274 | 521452.951 | 122.229 | DH 1541 | 1,89       |
| 1542 | 9966098.931 | 521455.808 | 122.644 | DH 1542 | 1,89       |
| 1543 | 9966090.633 | 521456.855 | 124.204 | DH 1543 | 1,89       |
| 1544 | 9966097.165 | 521451.423 | 122.750 | DH 1544 | 1,89       |
| 1545 | 9966092.296 | 521450.463 | 123.278 | DH 1545 | 1,89       |
| 1546 | 9966093.867 | 521454.849 | 123.436 | DH 1546 | 1,89       |
| 1547 | 9966085.812 | 521456.884 | 124.624 | DH 1547 | 1,89       |
| 1548 | 9966095.558 | 521447.421 | 122.508 | DH 1548 | 1,89       |
| 1549 | 9966090.314 | 521446.061 | 123.260 | DH 1549 | 1,89       |
| 1550 | 9966089.480 | 521454.051 | 124.547 | DH 1550 | 1,89       |
| 1551 | 9966080.431 | 521455.808 | 125.978 | DH 1551 | 1,89       |
| 1552 | 9966081.718 | 521448.758 | 124.520 | DH 1552 | 1,89       |
| 1553 | 9966087.005 | 521449.519 | 123.949 | DH 1553 | 1,89       |
| 1554 | 9966075.983 | 521454.871 | 125.919 | DH 1554 | 1,89       |
| 1555 | 9966083.355 | 521453.301 | 124.525 | DH 1555 | 1,89       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1556 | 9966076.945 | 521447.707 | 125.067 | DH 1556 | 1,89       |
| 1557 | 9966078.595 | 521452.272 | 125.126 | DH 1557 | 1,89       |
| 1558 | 9966070.846 | 521453.814 | 126.342 | DH 1558 | 1,89       |
| 1559 | 9966072.302 | 521447.071 | 125.917 | DH 1559 | 1,89       |
| 1560 | 9966068.653 | 521450.097 | 126.419 | DH 1560 | 1,89       |
| 1561 | 9966074.482 | 521451.378 | 125.665 | DH 1561 | 1,89       |
| 1562 | 9966085.366 | 521444.551 | 123.670 | DH 1562 | 1,89       |
| 1563 | 9966065.652 | 521453.229 | 127.099 | DH 1563 | 1,89       |
| 1564 | 9966060.662 | 521453.055 | 127.519 | DH 1564 | 1,89       |
| 1565 | 9966063.991 | 521449.744 | 126.976 | DH 1565 | 1,89       |
| 1566 | 9966067.058 | 521445.136 | 126.462 | DH 1566 | 1,89       |
| 1567 | 9966080.631 | 521444.275 | 124.468 | DH 1567 | 1,89       |
| 1568 | 9966058.540 | 521448.841 | 127.195 | DH 1568 | 1,89       |
| 1569 | 9966058.538 | 521454.906 | 127.709 | DH 1569 | 1,89       |
| 1570 | 9966057.121 | 521457.539 | 128.092 | DH 1570 | 1,89       |
| 1571 | 9966057.248 | 521444.975 | 127.153 | DH 1571 | 1,89       |
| 1572 | 9966056.123 | 521452.287 | 127.609 | DH 1572 | 1,89       |
| 1573 | 9966057.201 | 521444.839 | 126.938 | DH 1573 | 1,89       |
| 1574 | 9966040.316 | 521589.929 | 134.864 | DH 1574 | 1,89       |
| 1575 | 9966043.073 | 521586.484 | 134.251 | DH 1575 | 1,89       |
| 1576 | 9966044.993 | 521582.087 | 133.723 | DH 1576 | 1,89       |
| 1577 | 9966048.008 | 521577.958 | 133.512 | DH 1577 | 1,89       |
| 1578 | 9966043.596 | 521576.526 | 134.034 | DH 1578 | 1,89       |
| 1579 | 9966040.967 | 521580.941 | 133.884 | DH 1579 | 1,89       |
| 1580 | 9966037.268 | 521580.566 | 134.898 | DH 1580 | 1,89       |
| 1581 | 9966032.425 | 521579.836 | 136.207 | DH 1581 | 1,89       |
| 1582 | 9966030.651 | 521583.913 | 137.007 | DH 1582 | 1,89       |
| 1583 | 9966031.826 | 521588.187 | 136.170 | DH 1583 | 1,89       |
| 1584 | 9966039.536 | 521576.495 | 134.841 | DH 1584 | 1,89       |
| 1585 | 9966048.680 | 521574.759 | 133.601 | DH 1585 | 1,89       |
| 1586 | 9966046.613 | 521572.729 | 133.854 | DH 1586 | 1,89       |
| 1587 | 9966043.156 | 521572.957 | 134.632 | DH 1587 | 1,89       |
| 1588 | 9966038.337 | 521572.290 | 135.892 | DH 1588 | 1,89       |
| 1589 | 9966050.490 | 521569.246 | 133.300 | DH 1589 | 1,89       |
| 1590 | 9966055.508 | 521570.037 | 131.758 | DH 1590 | 1,89       |
| 1591 | 9966053.672 | 521565.937 | 132.583 | DH 1591 | 1,89       |
| 1592 | 9966052.057 | 521561.784 | 133.402 | DH 1592 | 1,89       |
| 1593 | 9966049.191 | 521565.553 | 133.481 | DH 1593 | 1,89       |
| 1594 | 9966122.194 | 521473.861 | 118.648 | DH 1594 | 1,40       |
| 1595 | 9966125.998 | 521470.253 | 118.155 | DH 1595 | 1,40       |
| 1596 | 9966117.958 | 521472.806 | 118.848 | DH 1596 | 1,40       |
| 1597 | 9966121.062 | 521469.177 | 119.019 | DH 1597 | 1,40       |
| 1598 | 9966116.303 | 521468.177 | 120.068 | DH 1598 | 1,40       |
| 1599 | 9966112.335 | 521470.176 | 121.208 | DH 1599 | 1,40       |
| 1600 | 9966111.374 | 521467.581 | 121.240 | DH 1600 | 1,40       |
| 1601 | 9966108.034 | 521470.716 | 121.744 | DH 1601 | 1,40       |
| 1602 | 9966104.808 | 521472.218 | 121.973 | DH 1602 | 1,40       |
| 1603 | 9966101.767 | 521474.454 | 122.163 | DH 1603 | 1,40       |
| 1604 | 9966106.408 | 521466.350 | 121.894 | DH 1604 | 1,40       |
| 1605 | 9966109.586 | 521462.933 | 121.439 | DH 1605 | 1,40       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1606 | 9966105.161 | 521461.506 | 122.126 | DH 1606 | 1,40       |
| 1607 | 9966100.232 | 521460.609 | 122.752 | DH 1607 | 1,40       |
| 1608 | 9966100.763 | 521447.514 | 121.995 | DH 1608 | 1,40       |
| 1609 | 9966103.339 | 521445.553 | 121.254 | DH 1609 | 1,40       |
| 1610 | 9966098.449 | 521443.780 | 121.817 | DH 1610 | 1,40       |
| 1611 | 9966108.102 | 521446.907 | 120.815 | DH 1611 | 1,40       |
| 1612 | 9966101.518 | 521440.473 | 121.103 | DH 1612 | 1,40       |
| 1613 | 9966112.729 | 521448.542 | 120.528 | DH 1613 | 1,40       |
| 1614 | 9966104.648 | 521436.369 | 120.309 | DH 1614 | 1,40       |
| 1615 | 9966111.384 | 521443.513 | 120.259 | DH 1615 | 1,40       |
| 1616 | 9966107.306 | 521432.892 | 119.888 | DH 1616 | 1,40       |
| 1617 | 9966113.465 | 521434.584 | 119.680 | DH 1617 | 1,40       |
| 1618 | 9966109.879 | 521438.242 | 120.719 | DH 1618 | 1,40       |
| 1619 | 9966117.741 | 521435.857 | 119.509 | DH 1619 | 1,40       |
| 1620 | 9966114.761 | 521439.081 | 119.717 | DH 1620 | 1,40       |
| 1621 | 9966102.711 | 521431.972 | 120.250 | DH 1621 | 1,40       |
| 1622 | 9966099.804 | 521435.886 | 120.852 | DH 1622 | 1,40       |
| 1623 | 9966097.832 | 521430.836 | 120.710 | DH 1623 | 1,40       |
| 1624 | 9966096.167 | 521439.290 | 121.580 | DH 1624 | 1,40       |
| 1625 | 9966095.314 | 521434.236 | 121.337 | DH 1625 | 1,40       |
| 1626 | 9966093.831 | 521442.291 | 122.488 | DH 1626 | 1,40       |
| 1627 | 9966092.705 | 521430.087 | 121.304 | DH 1627 | 1,40       |
| 1628 | 9966088.706 | 521441.361 | 123.359 | DH 1628 | 1,40       |
| 1629 | 9966088.783 | 521429.030 | 122.124 | DH 1629 | 1,40       |
| 1630 | 9966092.315 | 521437.836 | 122.231 | DH 1630 | 1,40       |
| 1631 | 9966084.444 | 521439.681 | 123.798 | DH 1631 | 1,40       |
| 1632 | 9966090.697 | 521433.467 | 122.448 | DH 1632 | 1,40       |
| 1633 | 9966082.026 | 521436.151 | 123.532 | DH 1633 | 1,40       |
| 1634 | 9966087.470 | 521436.953 | 123.126 | DH 1634 | 1,40       |
| 1635 | 9966079.909 | 521431.276 | 123.763 | DH 1635 | 1,40       |
| 1636 | 9966084.951 | 521433.046 | 123.158 | DH 1636 | 1,40       |
| 1637 | 9966078.412 | 521439.794 | 124.491 | DH 1637 | 1,40       |
| 1638 | 9966077.031 | 521434.878 | 124.089 | DH 1638 | 1,40       |
| 1639 | 9966087.090 | 521424.717 | 121.928 | DH 1639 | 1,40       |
| 1640 | 9966073.776 | 521438.629 | 125.108 | DH 1640 | 1,40       |
| 1641 | 9966072.260 | 521434.033 | 124.930 | DH 1641 | 1,40       |
| 1642 | 9966081.652 | 521423.673 | 123.178 | DH 1642 | 1,40       |
| 1643 | 9966075.089 | 521443.050 | 125.282 | DH 1643 | 1,40       |
| 1644 | 9966075.089 | 521430.481 | 124.276 | DH 1644 | 1,40       |
| 1645 | 9966078.942 | 521426.626 | 123.706 | DH 1645 | 1,40       |
| 1646 | 9966070.462 | 521442.140 | 125.961 | DH 1646 | 1,40       |
| 1647 | 9966070.708 | 521429.201 | 124.851 | DH 1647 | 1,40       |
| 1648 | 9966076.842 | 521421.960 | 123.791 | DH 1648 | 1,40       |
| 1649 | 9966068.306 | 521437.721 | 125.601 | DH 1649 | 1,40       |
| 1650 | 9966074.253 | 521426.048 | 124.279 | DH 1650 | 1,40       |
| 1651 | 9966071.963 | 521421.872 | 124.348 | DH 1651 | 1,40       |
| 1652 | 9966064.936 | 521441.180 | 126.132 | DH 1652 | 1,40       |
| 1653 | 9966068.634 | 521424.823 | 124.966 | DH 1653 | 1,40       |
| 1654 | 9966067.539 | 521419.893 | 124.824 | DH 1654 | 1,40       |
| 1655 | 9966061.114 | 521440.634 | 126.468 | DH 1655 | 1,40       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1656 | 9966065.706 | 521428.218 | 125.363 | DH 1656 | 1,40       |
| 1657 | 9966058.876 | 521422.754 | 125.653 | DH 1657 | 1,40       |
| 1658 | 9966064.142 | 521436.592 | 125.866 | DH 1658 | 1,40       |
| 1659 | 9966067.336 | 521432.907 | 125.449 | DH 1659 | 1,40       |
| 1660 | 9966062.559 | 521419.238 | 125.195 | DH 1660 | 1,40       |
| 1661 | 9966059.382 | 521435.839 | 126.360 | DH 1661 | 1,40       |
| 1662 | 9966062.083 | 521431.807 | 125.983 | DH 1662 | 1,40       |
| 1663 | 9966064.198 | 521424.099 | 125.337 | DH 1663 | 1,40       |
| 1664 | 9966056.150 | 521439.448 | 126.810 | DH 1664 | 1,40       |
| 1665 | 9966057.323 | 521430.932 | 126.396 | DH 1665 | 1,40       |
| 1666 | 9966060.441 | 521427.654 | 125.844 | DH 1666 | 1,40       |
| 1667 | 9966054.645 | 521434.687 | 126.769 | DH 1667 | 1,40       |
| 1668 | 9966054.442 | 521447.359 | 127.649 | DH 1668 | 1,40       |
| 1669 | 9966111.255 | 521454.556 | 120.794 | DH 1669 | 1,40       |
| 1670 | 9966135.679 | 521471.858 | 116.002 | DH 1670 | 1,40       |
| 1671 | 9966124.425 | 521453.706 | 119.037 | DH 1671 | 1,40       |
| 1672 | 9966113.072 | 521459.215 | 120.642 | DH 1672 | 1,40       |
| 1673 | 9966119.679 | 521452.224 | 119.985 | DH 1673 | 1,40       |
| 1674 | 9966117.718 | 521460.307 | 119.881 | DH 1674 | 1,40       |
| 1675 | 9966137.610 | 521468.535 | 115.510 | DH 1675 | 1,40       |
| 1676 | 9966116.845 | 521455.734 | 120.053 | DH 1676 | 1,40       |
| 1677 | 9966114.701 | 521463.937 | 120.594 | DH 1677 | 1,40       |
| 1678 | 9966133.403 | 521467.316 | 116.306 | DH 1678 | 1,40       |
| 1679 | 9966121.172 | 521456.915 | 119.340 | DH 1679 | 1,40       |
| 1680 | 9966119.570 | 521464.777 | 119.211 | DH 1680 | 1,40       |
| 1681 | 9966130.733 | 521470.934 | 116.827 | DH 1681 | 1,40       |
| 1682 | 9966125.824 | 521457.895 | 118.329 | DH 1682 | 1,40       |
| 1683 | 9966124.221 | 521465.612 | 118.438 | DH 1683 | 1,40       |
| 1684 | 9966128.488 | 521466.568 | 117.426 | DH 1684 | 1,40       |
| 1685 | 9966129.021 | 521454.687 | 117.807 | DH 1685 | 1,40       |
| 1686 | 9966127.260 | 521462.033 | 117.604 | DH 1686 | 1,40       |
| 1687 | 9966130.922 | 521459.106 | 116.867 | DH 1687 | 1,40       |
| 1688 | 9966131.936 | 521463.118 | 116.735 | DH 1688 | 1,40       |
| 1689 | 9966122.295 | 521461.286 | 118.449 | DH 1689 | 1,40       |
| 1690 | 9966133.771 | 521455.465 | 116.452 | DH 1690 | 1,40       |
| 1691 | 9966136.491 | 521464.059 | 115.903 | DH 1691 | 1,40       |
| 1692 | 9966135.417 | 521460.116 | 116.057 | DH 1692 | 1,40       |
| 1693 | 9966138.061 | 521456.153 | 115.406 | DH 1693 | 1,40       |
| 1694 | 9966139.646 | 521461.119 | 115.411 | DH 1694 | 1,40       |
| 1695 | 9966214.456 | 521560.966 | 93.731  | DH 1695 | 2,92       |
| 1696 | 9966209.863 | 521561.424 | 93.928  | DH 1696 | 2,92       |
| 1697 | 9966212.783 | 521557.373 | 94.260  | DH 1697 | 2,92       |
| 1698 | 9966207.521 | 521557.655 | 94.540  | DH 1698 | 2,92       |
| 1699 | 9966216.085 | 521554.267 | 94.480  | DH 1699 | 2,92       |
| 1700 | 9966205.003 | 521553.583 | 95.078  | DH 1700 | 2,92       |
| 1701 | 9966209.962 | 521553.796 | 94.786  | DH 1701 | 2,92       |
| 1702 | 9966203.255 | 521549.072 | 95.867  | DH 1702 | 2,92       |
| 1703 | 9966213.512 | 521550.059 | 95.316  | DH 1703 | 2,92       |
| 1704 | 9966218.185 | 521549.948 | 95.732  | DH 1704 | 2,92       |
| 1705 | 9966201.044 | 521544.771 | 96.464  | DH 1705 | 2,92       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1706 | 9966207.530 | 521565.163 | 93.874  | DH 1706 | 2,92       |
| 1707 | 9966221.457 | 521550.284 | 96.205  | DH 1707 | 2,92       |
| 1708 | 9966198.941 | 521540.330 | 96.960  | DH 1708 | 2,92       |
| 1709 | 9966201.364 | 521564.209 | 94.584  | DH 1709 | 2,92       |
| 1710 | 9966221.160 | 521546.306 | 96.387  | DH 1710 | 2,92       |
| 1711 | 9966196.390 | 521535.297 | 97.416  | DH 1711 | 2,92       |
| 1712 | 9966199.188 | 521560.961 | 94.951  | DH 1712 | 2,92       |
| 1713 | 9966223.924 | 521545.479 | 96.414  | DH 1713 | 2,92       |
| 1714 | 9966193.697 | 521532.046 | 97.973  | DH 1714 | 2,92       |
| 1715 | 9966202.720 | 521557.634 | 95.016  | DH 1715 | 2,92       |
| 1716 | 9966224.039 | 521542.239 | 96.103  | DH 1716 | 2,92       |
| 1717 | 9966197.360 | 521527.767 | 97.961  | DH 1717 | 2,92       |
| 1718 | 9966200.379 | 521553.207 | 95.545  | DH 1718 | 2,92       |
| 1719 | 9966225.273 | 521538.818 | 96.138  | DH 1719 | 2,92       |
| 1720 | 9966199.257 | 521531.918 | 97.594  | DH 1720 | 2,92       |
| 1721 | 9966197.192 | 521556.310 | 95.635  | DH 1721 | 2,92       |
| 1722 | 9966224.803 | 521534.476 | 96.975  | DH 1722 | 2,92       |
| 1723 | 9966201.437 | 521536.192 | 97.244  | DH 1723 | 2,92       |
| 1724 | 9966194.233 | 521559.521 | 95.784  | DH 1724 | 2,92       |
| 1725 | 9966226.962 | 521530.881 | 96.595  | DH 1725 | 2,92       |
| 1726 | 9966203.741 | 521540.898 | 96.868  | DH 1726 | 2,92       |
| 1727 | 9966191.789 | 521555.521 | 96.095  | DH 1727 | 2,92       |
| 1728 | 9966222.020 | 521530.449 | 97.569  | DH 1728 | 2,92       |
| 1729 | 9966205.500 | 521544.988 | 96.390  | DH 1729 | 2,92       |
| 1730 | 9966189.883 | 521551.633 | 96.450  | DH 1730 | 2,92       |
| 1731 | 9966217.219 | 521529.799 | 98.125  | DH 1731 | 2,92       |
| 1732 | 9966207.822 | 521549.516 | 95.667  | DH 1732 | 2,92       |
| 1733 | 9966187.027 | 521555.539 | 96.500  | DH 1733 | 2,92       |
| 1734 | 9966219.522 | 521534.210 | 97.431  | DH 1734 | 2,92       |
| 1735 | 9966210.415 | 521545.982 | 96.177  | DH 1735 | 2,92       |
| 1736 | 9966183.506 | 521555.014 | 97.161  | DH 1736 | 2,92       |
| 1737 | 9966221.655 | 521538.599 | 96.679  | DH 1737 | 2,92       |
| 1738 | 9966215.347 | 521545.775 | 95.540  | DH 1738 | 2,92       |
| 1739 | 9966185.087 | 521550.692 | 96.602  | DH 1739 | 2,92       |
| 1740 | 9966218.950 | 521542.530 | 96.340  | DH 1740 | 2,92       |
| 1741 | 9966213.362 | 521541.753 | 96.563  | DH 1741 | 2,92       |
| 1742 | 9966188.263 | 521547.216 | 96.380  | DH 1742 | 2,92       |
| 1743 | 9966216.661 | 521538.295 | 97.386  | DH 1743 | 2,92       |
| 1744 | 9966208.525 | 521541.146 | 96.638  | DH 1744 | 2,92       |
| 1745 | 9966193.002 | 521548.082 | 96.219  | DH 1745 | 2,92       |
| 1746 | 9966214.678 | 521533.939 | 97.957  | DH 1746 | 2,92       |
| 1747 | 9966206.240 | 521537.382 | 97.144  | DH 1747 | 2,92       |
| 1748 | 9966190.745 | 521543.262 | 96.504  | DH 1748 | 2,92       |
| 1749 | 9966211.806 | 521529.694 | 98.424  | DH 1749 | 2,92       |
| 1750 | 9966204.348 | 521532.910 | 97.603  | DH 1750 | 2,92       |
| 1751 | 9966186.126 | 521542.948 | 96.778  | DH 1751 | 2,92       |
| 1752 | 9966211.433 | 521537.487 | 97.446  | DH 1752 | 2,92       |
| 1753 | 9966202.375 | 521528.551 | 97.862  | DH 1753 | 2,92       |
| 1754 | 9966183.042 | 521546.891 | 97.098  | DH 1754 | 2,92       |
| 1755 | 9966208.778 | 521533.445 | 97.966  | DH 1755 | 2,92       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1756 | 9966198.893 | 521525.251 | 98.335  | DH 1756 | 2,92       |
| 1757 | 9966184.181 | 521538.592 | 97.489  | DH 1757 | 2,92       |
| 1758 | 9966210.775 | 521526.827 | 99.722  | DH 1758 | 2,92       |
| 1759 | 9966200.560 | 521523.851 | 98.487  | DH 1759 | 2,92       |
| 1760 | 9966189.219 | 521538.988 | 96.948  | DH 1760 | 2,92       |
| 1761 | 9966207.034 | 521528.768 | 98.477  | DH 1761 | 2,92       |
| 1762 | 9966202.387 | 521520.815 | 100.176 | DH 1762 | 2,92       |
| 1763 | 9966194.231 | 521539.811 | 96.924  | DH 1763 | 2,92       |
| 1764 | 9966208.443 | 521524.535 | 99.283  | DH 1764 | 2,92       |
| 1765 | 9966205.231 | 521522.188 | 100.353 | DH 1765 | 2,92       |
| 1766 | 9966191.783 | 521536.658 | 97.345  | DH 1766 | 2,92       |
| 1767 | 9966205.586 | 521524.468 | 98.792  | DH 1767 | 2,92       |
| 1768 | 9966190.759 | 521534.215 | 98.006  | DH 1768 | 2,92       |
| 1769 | 9966222.531 | 521583.650 | 93.595  | DH 1769 | 2,92       |
| 1770 | 9966219.816 | 521587.150 | 92.374  | DH 1770 | 2,92       |
| 1771 | 9966225.925 | 521584.166 | 93.643  | DH 1771 | 2,92       |
| 1772 | 9966221.852 | 521589.825 | 92.571  | DH 1772 | 2,92       |
| 1773 | 9966221.757 | 521585.932 | 92.988  | DH 1773 | 2,92       |
| 1774 | 9966229.963 | 521583.491 | 93.053  | DH 1774 | 2,92       |
| 1775 | 9966220.627 | 521593.474 | 92.001  | DH 1775 | 2,92       |
| 1776 | 9966225.248 | 521587.592 | 93.192  | DH 1776 | 2,92       |
| 1777 | 9966232.988 | 521584.947 | 92.493  | DH 1777 | 2,92       |
| 1778 | 9966219.986 | 521597.684 | 91.693  | DH 1778 | 2,92       |
| 1779 | 9966227.270 | 521590.611 | 92.655  | DH 1779 | 2,92       |
| 1780 | 9966237.335 | 521586.244 | 91.869  | DH 1780 | 2,92       |
| 1781 | 9966212.098 | 521602.702 | 91.700  | DH 1781 | 2,92       |
| 1782 | 9966231.322 | 521593.933 | 92.255  | DH 1782 | 2,92       |
| 1783 | 9966244.548 | 521588.720 | 90.375  | DH 1783 | 2,92       |
| 1784 | 9966212.272 | 521604.487 | 91.920  | DH 1784 | 2,92       |
| 1785 | 9966227.548 | 521595.965 | 92.540  | DH 1785 | 2,92       |
| 1786 | 9966247.650 | 521591.372 | 89.586  | DH 1786 | 2,92       |
| 1787 | 9966214.827 | 521607.395 | 91.566  | DH 1787 | 2,92       |
| 1788 | 9966231.941 | 521598.870 | 92.295  | DH 1788 | 2,92       |
| 1789 | 9966245.052 | 521592.302 | 89.914  | DH 1789 | 2,92       |
| 1790 | 9966212.446 | 521609.439 | 92.386  | DH 1790 | 2,92       |
| 1791 | 9966227.736 | 521600.952 | 92.962  | DH 1791 | 2,92       |
| 1792 | 9966240.978 | 521590.184 | 91.052  | DH 1792 | 2,92       |
| 1793 | 9966213.812 | 521611.221 | 92.678  | DH 1793 | 2,92       |
| 1794 | 9966225.260 | 521599.286 | 93.166  | DH 1794 | 2,92       |
| 1795 | 9966239.522 | 521594.785 | 91.048  | DH 1795 | 2,92       |
| 1796 | 9966212.339 | 521613.231 | 92.985  | DH 1796 | 2,92       |
| 1797 | 9966223.610 | 521596.516 | 92.490  | DH 1797 | 2,92       |
| 1798 | 9966236.080 | 521595.073 | 91.402  | DH 1798 | 2,92       |
| 1799 | 9966211.724 | 521615.034 | 93.559  | DH 1799 | 2,92       |
| 1800 | 9966222.393 | 521598.662 | 92.211  | DH 1800 | 2,92       |
| 1801 | 9966236.541 | 521591.509 | 91.660  | DH 1801 | 2,92       |
| 1802 | 9966209.933 | 521615.411 | 93.277  | DH 1802 | 2,92       |
| 1803 | 9966224.339 | 521592.475 | 92.596  | DH 1803 | 2,92       |
| 1804 | 9966232.664 | 521588.826 | 92.458  | DH 1804 | 2,92       |
| 1805 | 9966209.930 | 521613.898 | 93.060  | DH 1805 | 2,92       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1806 | 9966228.743 | 521586.633 | 93.071  | DH 1806 | 2,92       |
| 1807 | 9966209.996 | 521611.278 | 92.413  | DH 1807 | 2,92       |
| 1808 | 9966210.189 | 521608.640 | 91.903  | DH 1808 | 2,92       |
| 1809 | 9966066.720 | 521769.364 | 97.132  | DH 1809 | 2,92       |
| 1810 | 9966072.469 | 521767.365 | 95.929  | DH 1810 | 2,92       |
| 1811 | 9966072.405 | 521772.877 | 97.460  | DH 1811 | 2,92       |
| 1812 | 9966077.679 | 521765.104 | 95.317  | DH 1812 | 2,92       |
| 1813 | 9966068.111 | 521730.928 | 94.449  | DH 1813 | 2,92       |
| 1814 | 9966082.316 | 521769.802 | 96.337  | DH 1814 | 2,92       |
| 1815 | 9966084.895 | 521764.601 | 95.805  | DH 1815 | 2,92       |
| 1816 | 9966077.012 | 521771.201 | 96.822  | DH 1816 | 2,92       |
| 1817 | 9966090.222 | 521762.991 | 95.301  | DH 1817 | 2,92       |
| 1818 | 9966088.636 | 521768.542 | 95.582  | DH 1818 | 2,92       |
| 1819 | 9966095.871 | 521761.627 | 94.447  | DH 1819 | 2,92       |
| 1820 | 9966100.072 | 521766.495 | 94.479  | DH 1820 | 2,92       |
| 1821 | 9966094.157 | 521767.150 | 94.935  | DH 1821 | 2,92       |
| 1822 | 9966101.609 | 521760.460 | 93.692  | DH 1822 | 2,92       |
| 1823 | 9966105.256 | 521765.422 | 93.749  | DH 1823 | 2,92       |
| 1824 | 9966107.095 | 521759.955 | 93.180  | DH 1824 | 2,92       |
| 1825 | 9966112.005 | 521762.936 | 93.073  | DH 1825 | 2,92       |
| 1826 | 9966116.787 | 521762.645 | 93.040  | DH 1826 | 2,92       |
| 1827 | 9966113.375 | 521757.819 | 92.605  | DH 1827 | 2,92       |
| 1828 | 9966118.567 | 521757.428 | 92.743  | DH 1828 | 2,92       |
| 1829 | 9966121.017 | 521751.217 | 92.724  | DH 1829 | 2,92       |
| 1830 | 9966126.870 | 521749.756 | 92.703  | DH 1830 | 2,92       |
| 1831 | 9966123.470 | 521745.275 | 92.907  | DH 1831 | 2,92       |
| 1832 | 9966125.043 | 521739.338 | 92.840  | DH 1832 | 2,92       |
| 1833 | 9966119.607 | 521741.251 | 93.026  | DH 1833 | 2,92       |
| 1834 | 9966131.106 | 521752.902 | 92.644  | DH 1834 | 2,92       |
| 1835 | 9966132.568 | 521748.408 | 92.221  | DH 1835 | 2,92       |
| 1836 | 9966128.714 | 521744.091 | 92.680  | DH 1836 | 2,92       |
| 1837 | 9966131.112 | 521738.242 | 92.203  | DH 1837 | 2,92       |
| 1838 | 9966136.489 | 521752.922 | 92.175  | DH 1838 | 2,92       |
| 1839 | 9966138.549 | 521747.136 | 91.780  | DH 1839 | 2,92       |
| 1840 | 9966135.002 | 521742.685 | 91.731  | DH 1840 | 2,92       |
| 1841 | 9966138.101 | 521736.948 | 91.293  | DH 1841 | 2,92       |
| 1842 | 9966134.635 | 521732.549 | 91.350  | DH 1842 | 2,92       |
| 1843 | 9966141.830 | 521751.341 | 91.667  | DH 1843 | 2,92       |
| 1844 | 9966144.247 | 521745.876 | 91.662  | DH 1844 | 2,92       |
| 1845 | 9966140.549 | 521741.658 | 91.570  | DH 1845 | 2,92       |
| 1846 | 9966142.734 | 521736.096 | 90.920  | DH 1846 | 2,92       |
| 1847 | 9966139.346 | 521731.598 | 90.879  | DH 1847 | 2,92       |
| 1848 | 9966147.470 | 521749.686 | 91.537  | DH 1848 | 2,92       |
| 1849 | 9966149.624 | 521745.108 | 91.328  | DH 1849 | 2,92       |
| 1850 | 9966146.186 | 521740.596 | 91.294  | DH 1850 | 2,92       |
| 1851 | 9966126.921 | 521734.476 | 92.612  | DH 1851 | 2,92       |
| 1852 | 9966123.308 | 521730.942 | 92.758  | DH 1852 | 2,92       |
| 1853 | 9966121.813 | 521735.406 | 92.750  | DH 1853 | 2,92       |
| 1854 | 9966114.026 | 521742.330 | 92.858  | DH 1854 | 2,92       |
| 1855 | 9966116.038 | 521736.962 | 92.773  | DH 1855 | 2,92       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1856 | 9966118.634 | 521731.833 | 92.740  | DH 1856 | 2,79       |
| 1857 | 9966110.125 | 521737.792 | 92.829  | DH 1857 | 2,79       |
| 1858 | 9966117.319 | 521746.786 | 92.696  | DH 1858 | 2,79       |
| 1859 | 9966115.434 | 521752.494 | 92.643  | DH 1859 | 2,79       |
| 1860 | 9966107.646 | 521743.607 | 92.836  | DH 1860 | 2,79       |
| 1861 | 9966106.791 | 521735.674 | 92.905  | DH 1861 | 2,79       |
| 1862 | 9966104.119 | 521739.234 | 92.961  | DH 1862 | 2,79       |
| 1863 | 9966109.521 | 521753.682 | 92.553  | DH 1863 | 2,79       |
| 1864 | 9966111.340 | 521747.818 | 92.655  | DH 1864 | 2,79       |
| 1865 | 9966102.098 | 521744.866 | 92.900  | DH 1865 | 2,79       |
| 1866 | 9966098.203 | 521740.540 | 92.515  | DH 1866 | 2,79       |
| 1867 | 9966100.290 | 521734.763 | 92.727  | DH 1867 | 2,79       |
| 1868 | 9966105.852 | 521749.014 | 92.586  | DH 1868 | 2,79       |
| 1869 | 9966096.437 | 521746.695 | 92.751  | DH 1869 | 2,79       |
| 1870 | 9966099.713 | 521750.581 | 92.804  | DH 1870 | 2,79       |
| 1871 | 9966092.055 | 521742.117 | 92.391  | DH 1871 | 2,79       |
| 1872 | 9966094.090 | 521736.140 | 92.189  | DH 1872 | 2,79       |
| 1873 | 9966090.246 | 521748.037 | 92.664  | DH 1873 | 2,79       |
| 1874 | 9966097.596 | 521756.404 | 93.502  | DH 1874 | 2,79       |
| 1875 | 9966094.298 | 521752.162 | 93.033  | DH 1875 | 2,79       |
| 1876 | 9966087.976 | 521737.599 | 92.197  | DH 1876 | 2,79       |
| 1877 | 9966084.740 | 521749.035 | 93.229  | DH 1877 | 2,79       |
| 1878 | 9966091.544 | 521757.745 | 93.591  | DH 1878 | 2,79       |
| 1879 | 9966088.203 | 521753.512 | 93.596  | DH 1879 | 2,79       |
| 1880 | 9966080.919 | 521744.559 | 93.030  | DH 1880 | 2,79       |
| 1881 | 9966082.477 | 521738.928 | 92.648  | DH 1881 | 2,79       |
| 1882 | 9966078.448 | 521750.455 | 93.674  | DH 1882 | 2,79       |
| 1883 | 9966085.877 | 521758.782 | 94.365  | DH 1883 | 2,79       |
| 1884 | 9966081.938 | 521754.639 | 94.250  | DH 1884 | 2,79       |
| 1885 | 9966076.145 | 521746.013 | 93.816  | DH 1885 | 2,79       |
| 1886 | 9966077.471 | 521739.443 | 92.537  | DH 1886 | 2,79       |
| 1887 | 9966072.487 | 521751.530 | 94.883  | DH 1887 | 2,79       |
| 1888 | 9966079.957 | 521760.133 | 94.697  | DH 1888 | 2,79       |
| 1889 | 9966073.450 | 521761.360 | 95.202  | DH 1889 | 2,79       |
| 1890 | 9966069.532 | 521747.098 | 94.850  | DH 1890 | 2,79       |
| 1891 | 9966070.362 | 521741.232 | 94.201  | DH 1891 | 2,79       |
| 1892 | 9966067.395 | 521752.682 | 95.496  | DH 1892 | 2,79       |
| 1893 | 9966070.374 | 521757.192 | 95.096  | DH 1893 | 2,79       |
| 1894 | 9966068.478 | 521763.075 | 95.905  | DH 1894 | 2,79       |
| 1895 | 9966063.839 | 521748.169 | 95.580  | DH 1895 | 2,79       |
| 1896 | 9966065.766 | 521742.562 | 95.010  | DH 1896 | 2,79       |
| 1897 | 9966061.713 | 521753.802 | 95.864  | DH 1897 | 2,79       |
| 1898 | 9966065.165 | 521758.333 | 95.967  | DH 1898 | 2,79       |
| 1899 | 9966060.468 | 521743.566 | 95.507  | DH 1899 | 2,79       |
| 1900 | 9966058.269 | 521749.196 | 95.902  | DH 1900 | 2,79       |
| 1901 | 9966054.573 | 521744.388 | 95.225  | DH 1901 | 2,79       |
| 1902 | 9966051.646 | 521742.401 | 94.803  | DH 1902 | 2,79       |
| 1903 | 9966057.336 | 521739.836 | 95.360  | DH 1903 | 2,79       |
| 1904 | 9966061.865 | 521737.657 | 94.751  | DH 1904 | 2,79       |
| 1905 | 9966050.042 | 521735.503 | 94.715  | DH 1905 | 2,79       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1906 | 9966048.634 | 521740.394 | 94.909  | DH 1906 | 2,79       |
| 1907 | 9966044.226 | 521736.124 | 94.981  | DH 1907 | 2,79       |
| 1908 | 9966055.985 | 521734.197 | 94.959  | DH 1908 | 2,79       |
| 1909 | 9966067.315 | 521736.807 | 93.998  | DH 1909 | 2,79       |
| 1910 | 9966045.883 | 521731.180 | 94.642  | DH 1910 | 2,79       |
| 1911 | 9966051.950 | 521729.886 | 94.510  | DH 1911 | 2,79       |
| 1912 | 9966041.775 | 521727.307 | 94.592  | DH 1912 | 2,79       |
| 1913 | 9966057.557 | 521728.338 | 94.496  | DH 1913 | 2,79       |
| 1914 | 9966061.357 | 521732.538 | 94.749  | DH 1914 | 2,79       |
| 1915 | 9966047.932 | 521725.733 | 94.240  | DH 1915 | 2,79       |
| 1916 | 9966044.387 | 521721.772 | 94.333  | DH 1916 | 2,79       |
| 1917 | 9966053.826 | 521724.222 | 94.066  | DH 1917 | 2,79       |
| 1918 | 9966063.521 | 521727.452 | 94.793  | DH 1918 | 2,79       |
| 1919 | 9966068.116 | 521730.881 | 94.489  | DH 1919 | 2,79       |
| 1920 | 9966049.500 | 521719.843 | 94.017  | DH 1920 | 2,79       |
| 1921 | 9966046.114 | 521716.008 | 94.338  | DH 1921 | 2,79       |
| 1922 | 9966055.727 | 521718.695 | 93.886  | DH 1922 | 2,79       |
| 1923 | 9966059.527 | 521722.980 | 93.808  | DH 1923 | 2,79       |
| 1924 | 9966051.482 | 521714.518 | 94.011  | DH 1924 | 2,79       |
| 1925 | 9966047.534 | 521710.021 | 95.158  | DH 1925 | 2,79       |
| 1926 | 9966053.637 | 521709.082 | 93.925  | DH 1926 | 2,79       |
| 1927 | 9966051.012 | 521704.023 | 95.070  | DH 1927 | 2,79       |
| 1928 | 9966055.672 | 521703.150 | 94.164  | DH 1928 | 2,79       |
| 1929 | 9966057.966 | 521698.083 | 94.205  | DH 1929 | 2,79       |
| 1930 | 9966061.918 | 521701.978 | 93.635  | DH 1930 | 2,79       |
| 1931 | 9966063.312 | 521697.748 | 94.364  | DH 1931 | 2,79       |
| 1932 | 9966074.548 | 521723.534 | 93.071  | DH 1932 | 2,79       |
| 1933 | 9966064.952 | 521721.789 | 93.625  | DH 1933 | 2,79       |
| 1934 | 9966069.078 | 521725.797 | 93.156  | DH 1934 | 2,79       |
| 1935 | 9966061.556 | 521717.328 | 93.515  | DH 1935 | 2,79       |
| 1936 | 9966071.582 | 521720.405 | 93.259  | DH 1936 | 2,79       |
| 1937 | 9966063.356 | 521712.034 | 93.324  | DH 1937 | 2,79       |
| 1938 | 9966067.754 | 521716.086 | 93.339  | DH 1938 | 2,79       |
| 1939 | 9966059.711 | 521707.517 | 93.509  | DH 1939 | 2,79       |
| 1940 | 9966073.692 | 521714.904 | 92.947  | DH 1940 | 2,79       |
| 1941 | 9966065.902 | 521706.521 | 93.319  | DH 1941 | 2,79       |
| 1942 | 9966077.989 | 521718.961 | 92.783  | DH 1942 | 2,79       |
| 1943 | 9966069.822 | 521710.580 | 93.015  | DH 1943 | 2,79       |
| 1944 | 9966083.467 | 521717.326 | 92.179  | DH 1944 | 2,79       |
| 1945 | 9966075.519 | 521709.628 | 92.520  | DH 1945 | 2,79       |
| 1946 | 9966079.308 | 521713.298 | 92.390  | DH 1946 | 2,79       |
| 1947 | 9966071.961 | 521705.214 | 93.343  | DH 1947 | 2,79       |
| 1948 | 9966080.915 | 521708.013 | 92.296  | DH 1948 | 2,79       |
| 1949 | 9966067.798 | 521700.966 | 94.639  | DH 1949 | 2,79       |
| 1950 | 9966076.809 | 521703.930 | 93.270  | DH 1950 | 2,79       |
| 1951 | 9966069.032 | 521695.025 | 94.593  | DH 1951 | 2,79       |
| 1952 | 9966073.318 | 521699.467 | 93.551  | DH 1952 | 2,79       |
| 1953 | 9966075.879 | 521694.011 | 93.390  | DH 1953 | 2,79       |
| 1954 | 9966079.736 | 521698.678 | 93.597  | DH 1954 | 2,79       |
| 1955 | 9966083.685 | 521702.775 | 93.027  | DH 1955 | 2,79       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 1956 | 9966087.963 | 521706.489 | 92.317  | DH 1956 | 2,79       |
| 1957 | 9966084.728 | 521711.894 | 91.984  | DH 1957 | 2,79       |
| 1958 | 9966082.478 | 521723.172 | 92.589  | DH 1958 | 2,79       |
| 1959 | 9966092.438 | 521710.552 | 91.975  | DH 1959 | 2,79       |
| 1960 | 9966088.013 | 521721.509 | 92.002  | DH 1960 | 2,79       |
| 1961 | 9966096.439 | 521714.816 | 91.663  | DH 1961 | 2,79       |
| 1962 | 9966092.381 | 521725.715 | 91.822  | DH 1962 | 2,79       |
| 1963 | 9966090.650 | 521716.293 | 91.697  | DH 1963 | 2,79       |
| 1964 | 9966096.256 | 521730.288 | 92.162  | DH 1964 | 2,79       |
| 1965 | 9966099.422 | 521719.416 | 91.465  | DH 1965 | 2,79       |
| 1966 | 9966084.963 | 521733.167 | 92.382  | DH 1966 | 2,79       |
| 1967 | 9966085.649 | 521726.831 | 92.360  | DH 1967 | 2,79       |
| 1968 | 9966081.267 | 521728.870 | 92.757  | DH 1968 | 2,79       |
| 1969 | 9966079.747 | 521734.190 | 92.566  | DH 1969 | 2,79       |
| 1970 | 9966078.967 | 521725.414 | 93.256  | DH 1970 | 2,79       |
| 1971 | 9966075.762 | 521730.347 | 92.549  | DH 1971 | 2,79       |
| 1972 | 9966073.638 | 521735.847 | 92.898  | DH 1972 | 2,79       |
| 1973 | 9966089.447 | 521731.617 | 91.991  | DH 1973 | 2,79       |
| 1974 | 9966097.066 | 521722.865 | 91.789  | DH 1974 | 2,79       |
| 1975 | 9966094.466 | 521720.543 | 91.751  | DH 1975 | 2,79       |
| 1976 | 9966103.438 | 521727.422 | 90.462  | DH 1976 | 2,79       |
| 1977 | 9966103.983 | 521723.616 | 90.112  | DH 1977 | 2,79       |
| 1978 | 9966108.259 | 521727.776 | 90.212  | DH 1978 | 2,79       |
| 1979 | 9966112.321 | 521731.960 | 90.593  | DH 1979 | 2,79       |
| 1980 | 9966114.357 | 521726.708 | 90.161  | DH 1980 | 2,79       |
| 1981 | 9966110.275 | 521722.379 | 90.132  | DH 1981 | 2,79       |
| 1982 | 9966120.182 | 521725.353 | 90.144  | DH 1982 | 2,79       |
| 1983 | 9966116.344 | 521720.933 | 90.160  | DH 1983 | 2,79       |
| 1984 | 9966126.194 | 521724.344 | 90.146  | DH 1984 | 2,79       |
| 1985 | 9966122.339 | 521719.962 | 89.973  | DH 1985 | 2,79       |
| 1986 | 9966129.770 | 521728.511 | 90.602  | DH 1986 | 2,79       |
| 1987 | 9966127.867 | 521719.046 | 90.421  | DH 1987 | 2,79       |
| 1988 | 9966139.743 | 521731.539 | 90.832  | DH 1988 | 2,79       |
| 1989 | 9966131.856 | 521723.408 | 90.722  | DH 1989 | 2,79       |
| 1990 | 9966135.421 | 521727.292 | 91.011  | DH 1990 | 2,79       |
| 1991 | 9966123.865 | 521714.435 | 89.940  | DH 1991 | 2,79       |
| 1992 | 9966119.784 | 521710.000 | 89.859  | DH 1992 | 2,79       |
| 1993 | 9966118.386 | 521715.969 | 90.059  | DH 1993 | 2,79       |
| 1994 | 9966116.256 | 521705.421 | 89.934  | DH 1994 | 2,79       |
| 1995 | 9966112.192 | 521716.903 | 90.110  | DH 1995 | 2,79       |
| 1996 | 9966112.236 | 521702.572 | 90.028  | DH 1996 | 2,79       |
| 1997 | 9966106.615 | 521718.036 | 90.206  | DH 1997 | 2,79       |
| 1998 | 9966109.989 | 521707.062 | 89.882  | DH 1998 | 2,79       |
| 1999 | 9966108.527 | 521712.936 | 90.394  | DH 1999 | 2,79       |
| 2000 | 9966102.253 | 521714.164 | 91.042  | DH 2000 | 2,79       |
| 2001 | 9966098.922 | 521709.475 | 91.822  | DH 2001 | 2,79       |
| 2002 | 9966100.420 | 521703.759 | 92.171  | DH 2002 | 2,79       |
| 2003 | 9966094.715 | 521705.261 | 92.203  | DH 2003 | 2,79       |
| 2004 | 9966096.748 | 521699.864 | 92.417  | DH 2004 | 2,79       |
| 2005 | 9966102.458 | 521698.035 | 91.617  | DH 2005 | 2,79       |



| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2006 | 9966092.443 | 521696.056 | 92.455  | DH 2006 | 2,79       |
| 2007 | 9966098.735 | 521694.474 | 91.583  | DH 2007 | 2,79       |
| 2008 | 9966088.043 | 521691.956 | 92.498  | DH 2008 | 2,79       |
| 2009 | 9966094.415 | 521690.178 | 91.570  | DH 2009 | 2,79       |
| 2010 | 9966084.242 | 521687.691 | 92.512  | DH 2010 | 2,79       |
| 2011 | 9966081.269 | 521684.615 | 92.755  | DH 2011 | 2,79       |
| 2012 | 9966090.129 | 521686.090 | 91.813  | DH 2012 | 2,79       |
| 2013 | 9966086.336 | 521682.487 | 91.940  | DH 2013 | 2,79       |
| 2014 | 9966092.500 | 521680.555 | 91.497  | DH 2014 | 2,79       |
| 2015 | 9966096.236 | 521684.422 | 91.403  | DH 2015 | 2,79       |
| 2016 | 9966100.809 | 521688.176 | 90.918  | DH 2016 | 2,79       |
| 2017 | 9966104.576 | 521692.769 | 90.717  | DH 2017 | 2,79       |
| 2018 | 9966108.309 | 521697.279 | 91.072  | DH 2018 | 2,79       |
| 2019 | 9966078.231 | 521688.599 | 93.445  | DH 2019 | 2,79       |
| 2020 | 9966081.487 | 521693.867 | 93.367  | DH 2020 | 2,79       |
| 2021 | 9966085.856 | 521696.955 | 93.019  | DH 2021 | 2,79       |
| 2022 | 9966090.447 | 521701.151 | 92.628  | DH 2022 | 2,79       |
| 2023 | 9966106.517 | 521702.421 | 91.262  | DH 2023 | 2,79       |
| 2024 | 9966105.715 | 521708.914 | 90.920  | DH 2024 | 2,79       |
| 2025 | 9966116.036 | 521737.034 | 92.816  | DH 2025 | 2,79       |
| 2026 | 9966107.087 | 521732.183 | 91.376  | DH 2026 | 2,79       |
| 2027 | 9966101.094 | 521731.951 | 92.709  | DH 2027 | 2,79       |
| 2028 | 9966160.499 | 521508.994 | 105.475 | DH 2028 | 2,54       |
| 2029 | 9966164.447 | 521512.872 | 104.345 | DH 2029 | 2,54       |
| 2030 | 9966154.662 | 521510.432 | 105.922 | DH 2030 | 2,54       |
| 2031 | 9966164.069 | 521516.810 | 103.965 | DH 2031 | 2,54       |
| 2032 | 9966149.148 | 521510.875 | 106.510 | DH 2032 | 2,54       |
| 2033 | 9966158.987 | 521513.409 | 105.200 | DH 2033 | 2,54       |
| 2034 | 9966160.272 | 521520.769 | 104.716 | DH 2034 | 2,54       |
| 2035 | 9966143.200 | 521511.385 | 107.460 | DH 2035 | 2,54       |
| 2036 | 9966152.842 | 521514.650 | 106.052 | DH 2036 | 2,54       |
| 2037 | 9966157.350 | 521517.104 | 105.032 | DH 2037 | 2,54       |
| 2038 | 9966137.825 | 521513.143 | 107.871 | DH 2038 | 2,54       |
| 2039 | 9966147.263 | 521516.042 | 106.673 | DH 2039 | 2,54       |
| 2040 | 9966155.797 | 521521.776 | 105.127 | DH 2040 | 2,54       |
| 2041 | 9966133.513 | 521514.266 | 108.625 | DH 2041 | 2,54       |
| 2042 | 9966141.429 | 521517.012 | 107.408 | DH 2042 | 2,54       |
| 2043 | 9966151.104 | 521519.164 | 105.654 | DH 2043 | 2,54       |
| 2044 | 9966137.020 | 521518.195 | 107.997 | DH 2044 | 2,54       |
| 2045 | 9966145.186 | 521520.900 | 106.684 | DH 2045 | 2,54       |
| 2046 | 9966128.607 | 521516.078 | 109.052 | DH 2046 | 2,54       |
| 2047 | 9966132.976 | 521519.200 | 108.721 | DH 2047 | 2,54       |
| 2048 | 9966140.555 | 521521.919 | 107.500 | DH 2048 | 2,54       |
| 2049 | 9966123.798 | 521518.010 | 109.819 | DH 2049 | 2,54       |
| 2050 | 9966127.834 | 521521.157 | 109.434 | DH 2050 | 2,54       |
| 2051 | 9966135.949 | 521523.464 | 108.267 | DH 2051 | 2,54       |
| 2052 | 9966119.739 | 521520.148 | 109.966 | DH 2052 | 2,54       |
| 2053 | 9966123.258 | 521523.013 | 109.673 | DH 2053 | 2,54       |
| 2054 | 9966131.265 | 521526.344 | 109.106 | DH 2054 | 2,54       |
| 2055 | 9966116.434 | 521523.676 | 110.221 | DH 2055 | 2,54       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2056 | 9966118.932 | 521524.927 | 109.812 | DH 2056 | 2,54       |
| 2057 | 9966126.049 | 521526.247 | 109.498 | DH 2057 | 2,54       |
| 2058 | 9966115.257 | 521528.671 | 110.563 | DH 2058 | 2,54       |
| 2059 | 9966118.555 | 521529.969 | 110.027 | DH 2059 | 2,54       |
| 2060 | 9966122.900 | 521527.274 | 109.592 | DH 2060 | 2,54       |
| 2061 | 9966114.770 | 521531.996 | 110.611 | DH 2061 | 2,54       |
| 2062 | 9966118.350 | 521534.223 | 110.056 | DH 2062 | 2,54       |
| 2063 | 9966126.726 | 521530.951 | 109.227 | DH 2063 | 2,54       |
| 2064 | 9966114.031 | 521535.254 | 110.608 | DH 2064 | 2,54       |
| 2065 | 9966122.153 | 521532.657 | 109.427 | DH 2065 | 2,54       |
| 2066 | 9966130.516 | 521529.301 | 109.195 | DH 2066 | 2,54       |
| 2067 | 9966134.759 | 521528.350 | 108.586 | DH 2067 | 2,54       |
| 2068 | 9966138.806 | 521526.986 | 107.722 | DH 2068 | 2,54       |
| 2069 | 9966144.536 | 521525.536 | 106.915 | DH 2069 | 2,54       |
| 2070 | 9966144.400 | 521525.511 | 106.828 | DH 2070 | 2,54       |
| 2071 | 9966147.972 | 521528.363 | 106.267 | DH 2071 | 2,54       |
| 2072 | 9966153.472 | 521526.909 | 105.578 | DH 2072 | 2,54       |
| 2073 | 9966149.775 | 521524.158 | 106.058 | DH 2073 | 2,54       |
| 2074 | 9966158.185 | 521526.411 | 104.797 | DH 2074 | 2,54       |
| 2075 | 9966156.966 | 521530.814 | 104.67  | DH 2075 | 2,54       |
| 2076 | 9966151.910 | 521531.979 | 105.328 | DH 2076 | 2,54       |
| 2077 | 9966147.161 | 521532.606 | 105.761 | DH 2077 | 2,54       |
| 2078 | 9966154.816 | 521536.370 | 104.688 | DH 2078 | 2,54       |
| 2079 | 9966151.608 | 521540.059 | 104.566 | DH 2079 | 2,54       |
| 2080 | 9966147.841 | 521544.298 | 104.330 | DH 2080 | 2,54       |
| 2081 | 9966150.690 | 521536.248 | 105.205 | DH 2081 | 2,54       |
| 2082 | 9966142.814 | 521547.444 | 104.458 | DH 2082 | 2,54       |
| 2083 | 9966138.485 | 521545.858 | 104.219 | DH 2083 | 2,54       |
| 2084 | 9966147.551 | 521539.055 | 104.355 | DH 2084 | 2,54       |
| 2085 | 9966138.461 | 521550.310 | 104.132 | DH 2085 | 2,54       |
| 2086 | 9966134.403 | 521548.816 | 104.142 | DH 2086 | 2,54       |
| 2087 | 9966143.416 | 521536.776 | 104.415 | DH 2087 | 2,54       |
| 2088 | 9966143.207 | 521542.457 | 104.312 | DH 2088 | 2,54       |
| 2089 | 9966130.048 | 521552.804 | 104.376 | DH 2089 | 2,54       |
| 2090 | 9966137.047 | 521535.199 | 104.250 | DH 2090 | 2,54       |
| 2091 | 9966138.936 | 521539.843 | 104.111 | DH 2091 | 2,54       |
| 2092 | 9966133.965 | 521554.160 | 104.219 | DH 2092 | 2,54       |
| 2093 | 9966139.756 | 521532.466 | 104.862 | DH 2093 | 2,54       |
| 2094 | 9966133.263 | 521538.255 | 104.342 | DH 2094 | 2,54       |
| 2095 | 9966135.102 | 521542.750 | 104.143 | DH 2095 | 2,54       |
| 2096 | 9966129.105 | 521541.524 | 104.458 | DH 2096 | 2,54       |
| 2097 | 9966138.849 | 521555.299 | 104.118 | DH 2097 | 2,54       |
| 2098 | 9966129.305 | 521546.616 | 104.165 | DH 2098 | 2,54       |
| 2099 | 9966124.493 | 521544.117 | 104.344 | DH 2099 | 2,54       |
| 2100 | 9966139.074 | 521560.102 | 104.223 | DH 2100 | 2,54       |
| 2101 | 9966124.944 | 521549.838 | 104.087 | DH 2101 | 2,54       |
| 2102 | 9966120.075 | 521546.890 | 103.981 | DH 2102 | 2,54       |
| 2103 | 9966143.599 | 521558.046 | 104.357 | DH 2103 | 2,54       |
| 2104 | 9966145.087 | 521562.714 | 104.761 | DH 2104 | 2,54       |
| 2105 | 9966147.615 | 521549.088 | 104.375 | DH 2105 | 2,54       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2106 | 9966143.093 | 521552.721 | 104.380 | DH 2106 | 2,54       |
| 2107 | 9966147.101 | 521558.212 | 105.321 | DH 2107 | 2,54       |
| 2108 | 9966151.317 | 521545.741 | 104.198 | DH 2108 | 2,54       |
| 2109 | 9966147.918 | 521554.199 | 104.297 | DH 2109 | 2,54       |
| 2110 | 9966149.086 | 521559.824 | 106.148 | DH 2110 | 2,54       |
| 2111 | 9966152.350 | 521556.556 | 104.426 | DH 2111 | 2,54       |
| 2112 | 9966152.170 | 521550.848 | 104.226 | DH 2112 | 2,54       |
| 2113 | 9966176.764 | 521538.714 | 101.986 | DH 2113 | 2,54       |
| 2114 | 9966179.023 | 521535.062 | 101.614 | DH 2114 | 2,54       |
| 2115 | 9966181.624 | 521530.800 | 101.562 | DH 2115 | 2,54       |
| 2116 | 9966178.522 | 521528.012 | 101.890 | DH 2116 | 2,54       |
| 2117 | 9966176.071 | 521531.894 | 101.910 | DH 2117 | 2,54       |
| 2118 | 9966168.829 | 521523.682 | 101.011 | DH 2118 | 2,54       |
| 2119 | 9966168.763 | 521523.350 | 103.425 | DH 2119 | 2,54       |
| 2120 | 9966167.167 | 521528.467 | 103.587 | DH 2120 | 2,54       |
| 2121 | 9966163.632 | 521524.533 | 103.671 | DH 2121 | 2,54       |
| 2122 | 9966173.014 | 521539.323 | 102.561 | DH 2122 | 2,54       |
| 2123 | 9966165.286 | 521533.268 | 103.975 | DH 2123 | 2,54       |
| 2124 | 9966159.742 | 521534.574 | 104.464 | DH 2124 | 2,54       |
| 2125 | 9966170.330 | 521537.299 | 103.063 | DH 2125 | 2,54       |
| 2126 | 9966157.839 | 521539.001 | 104.332 | DH 2126 | 2,54       |
| 2127 | 9966162.705 | 521537.668 | 104.259 | DH 2127 | 2,54       |
| 2128 | 9966170.233 | 521532.620 | 102.878 | DH 2128 | 2,54       |
| 2129 | 9966172.368 | 521527.498 | 102.935 | DH 2129 | 2,54       |
| 2130 | 9966217.243 | 521520.756 | 103.101 | DH 2130 | 2,54       |
| 2131 | 9966217.227 | 521522.551 | 103.414 | DH 2131 | 2,54       |
| 2132 | 9966219.054 | 521522.716 | 103.403 | DH 2132 | 2,54       |
| 2133 | 9966221.433 | 521521.649 | 103.608 | DH 2133 | 2,54       |
| 2134 | 9966222.665 | 521516.981 | 103.391 | DH 2134 | 2,54       |
| 2135 | 9966053.885 | 521553.099 | 126.874 | DH 2135 | 1,93       |
| 2136 | 9966052.234 | 521550.250 | 126.966 | DH 2136 | 1,93       |
| 2137 | 9966048.733 | 521552.709 | 127.750 | DH 2137 | 1,93       |
| 2138 | 9966045.412 | 521551.221 | 128.426 | DH 2138 | 1,93       |
| 2139 | 9966040.950 | 521554.367 | 129.082 | DH 2139 | 1,93       |
| 2140 | 9966042.170 | 521547.460 | 128.872 | DH 2140 | 1,93       |
| 2141 | 9966039.711 | 521549.567 | 129.212 | DH 2141 | 1,93       |
| 2142 | 9966036.560 | 521553.011 | 129.675 | DH 2142 | 1,93       |
| 2143 | 9966038.610 | 521545.049 | 128.961 | DH 2143 | 1,93       |
| 2144 | 9966034.469 | 521548.530 | 129.675 | DH 2144 | 1,93       |
| 2145 | 9966033.879 | 521543.930 | 129.535 | DH 2145 | 1,93       |
| 2146 | 9966033.222 | 521556.702 | 130.226 | DH 2146 | 1,93       |
| 2147 | 9966036.879 | 521541.121 | 128.671 | DH 2147 | 1,93       |
| 2148 | 9966030.226 | 521547.164 | 129.888 | DH 2148 | 1,93       |
| 2149 | 9966031.867 | 521539.298 | 129.212 | DH 2149 | 1,93       |
| 2150 | 9966031.305 | 521552.263 | 130.134 | DH 2150 | 1,93       |
| 2151 | 9966035.009 | 521535.856 | 128.592 | DH 2151 | 1,93       |
| 2152 | 9966025.782 | 521546.190 | 130.167 | DH 2152 | 1,93       |
| 2153 | 9966029.090 | 521542.377 | 129.722 | DH 2153 | 1,93       |
| 2154 | 9966029.660 | 521560.370 | 130.939 | DH 2154 | 1,93       |
| 2155 | 9966037.829 | 521531.143 | 128.221 | DH 2155 | 1,93       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2156 | 9966021.277 | 521545.337 | 130.934 | DH 2156 | 1,93       |
| 2157 | 9966027.719 | 521537.631 | 129.577 | DH 2157 | 1,93       |
| 2158 | 9966027.003 | 521551.025 | 130.518 | DH 2158 | 1,93       |
| 2159 | 9966025.060 | 521559.316 | 131.425 | DH 2159 | 1,93       |
| 2160 | 9966040.476 | 521525.092 | 127.734 | DH 2160 | 1,93       |
| 2161 | 9966019.774 | 521540.259 | 131.062 | DH 2161 | 1,93       |
| 2162 | 9966031.008 | 521533.443 | 128.914 | DH 2162 | 1,93       |
| 2163 | 9966022.221 | 521550.065 | 131.260 | DH 2163 | 1,93       |
| 2164 | 9966021.634 | 521562.920 | 132.268 | DH 2164 | 1,93       |
| 2165 | 9966034.469 | 521529.864 | 128.299 | DH 2165 | 1,93       |
| 2166 | 9966024.169 | 521541.441 | 130.255 | DH 2166 | 1,93       |
| 2167 | 9966026.642 | 521533.418 | 129.559 | DH 2167 | 1,93       |
| 2168 | 9966023.403 | 521554.672 | 131.373 | DH 2168 | 1,93       |
| 2169 | 9966021.183 | 521557.999 | 131.823 | DH 2169 | 1,93       |
| 2170 | 9966022.849 | 521536.843 | 130.235 | DH 2170 | 1,93       |
| 2171 | 9966015.149 | 521539.301 | 131.834 | DH 2171 | 1,93       |
| 2172 | 9966016.605 | 521543.688 | 131.759 | DH 2172 | 1,93       |
| 2173 | 9966015.853 | 521557.003 | 132.635 | DH 2173 | 1,93       |
| 2174 | 9966012.073 | 521542.770 | 132.473 | DH 2174 | 1,93       |
| 2175 | 9966012.860 | 521547.627 | 132.331 | DH 2175 | 1,93       |
| 2176 | 9966017.615 | 521548.529 | 131.954 | DH 2176 | 1,93       |
| 2177 | 9966014.338 | 521552.421 | 132.507 | DH 2177 | 1,93       |
| 2178 | 9966017.059 | 521562.010 | 132.851 | DH 2178 | 1,93       |
| 2179 | 9966009.123 | 521546.162 | 132.585 | DH 2179 | 1,93       |
| 2180 | 9966009.828 | 521551.260 | 132.806 | DH 2180 | 1,93       |
| 2181 | 9966010.959 | 521555.812 | 132.933 | DH 2181 | 1,93       |
| 2182 | 9966012.287 | 521560.901 | 133.372 | DH 2182 | 1,93       |
| 2183 | 9966018.510 | 521566.893 | 132.791 | DH 2183 | 1,93       |
| 2184 | 9966013.864 | 521565.382 | 133.410 | DH 2184 | 1,93       |
| 2185 | 9966015.410 | 521570.607 | 133.457 | DH 2185 | 1,93       |
| 2186 | 9966016.796 | 521575.591 | 133.622 | DH 2186 | 1,93       |
| 2187 | 9966022.994 | 521581.221 | 133.528 | DH 2187 | 1,93       |
| 2188 | 9966024.236 | 521585.932 | 133.905 | DH 2188 | 1,93       |
| 2189 | 9966020.844 | 521589.767 | 134.448 | DH 2189 | 1,93       |
| 2190 | 9966025.944 | 521577.955 | 132.414 | DH 2190 | 1,93       |
| 2191 | 9966027.330 | 521582.670 | 132.698 | DH 2191 | 1,93       |
| 2192 | 9966025.697 | 521590.159 | 134.504 | DH 2192 | 1,93       |
| 2193 | 9966030.327 | 521591.638 | 133.659 | DH 2193 | 1,93       |
| 2194 | 9966028.802 | 521586.945 | 133.046 | DH 2194 | 1,93       |
| 2195 | 9966046.137 | 521556.255 | 128.413 | DH 2195 | 1,93       |
| 2196 | 9966024.690 | 521572.890 | 131.232 | DH 2196 | 1,93       |
| 2197 | 9966020.618 | 521618.480 | 133.786 | DH 2197 | 1,93       |
| 2198 | 9966021.272 | 521622.465 | 133.266 | DH 2198 | 1,93       |
| 2199 | 9966035.219 | 521620.996 | 132.591 | DH 2199 | 1,93       |
| 2200 | 9966024.577 | 521623.508 | 133.071 | DH 2200 | 1,93       |
| 2201 | 9966034.108 | 521617.599 | 133.370 | DH 2201 | 1,93       |
| 2202 | 9966025.635 | 521620.456 | 133.579 | DH 2202 | 1,93       |
| 2203 | 9966030.788 | 521621.152 | 133.002 | DH 2203 | 1,93       |
| 2204 | 9966029.340 | 521616.452 | 133.782 | DH 2204 | 1,93       |
| 2205 | 9966028.094 | 521612.803 | 134.011 | DH 2205 | 1,93       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2206 | 9966030.287 | 521623.704 | 132.611 | DH 2206 | 1,93       |
| 2207 | 9966024.237 | 521615.918 | 133.930 | DH 2207 | 1,93       |
| 2208 | 9966032.935 | 521613.605 | 133.885 | DH 2208 | 1,93       |
| 2209 | 9966026.623 | 521607.621 | 134.357 | DH 2209 | 1,93       |
| 2210 | 9966037.636 | 521614.348 | 133.147 | DH 2210 | 1,93       |
| 2211 | 9966030.086 | 521604.045 | 134.237 | DH 2211 | 1,93       |
| 2212 | 9966038.272 | 521617.621 | 132.651 | DH 2212 | 1,93       |
| 2213 | 9966031.779 | 521608.762 | 134.136 | DH 2213 | 1,93       |
| 2214 | 9966034.521 | 521605.250 | 133.723 | DH 2214 | 1,93       |
| 2215 | 9966036.371 | 521609.889 | 133.407 | DH 2215 | 1,93       |
| 2216 | 9966032.993 | 521600.244 | 133.634 | DH 2216 | 1,93       |
| 2217 | 9966039.176 | 521606.140 | 133.131 | DH 2217 | 1,93       |
| 2218 | 9966036.038 | 521596.512 | 133.192 | DH 2218 | 1,93       |
| 2219 | 9966037.899 | 521601.544 | 133.413 | DH 2219 | 1,93       |
| 2220 | 9966040.493 | 521597.807 | 132.957 | DH 2220 | 1,93       |
| 2221 | 9966025.067 | 521602.894 | 134.358 | DH 2221 | 1,93       |
| 2222 | 9966031.584 | 521596.003 | 133.787 | DH 2222 | 1,93       |
| 2223 | 9966028.209 | 521599.264 | 134.393 | DH 2223 | 1,93       |
| 2224 | 9966023.799 | 521598.156 | 134.557 | DH 2224 | 1,93       |
| 2225 | 9966026.674 | 521594.805 | 134.710 | DH 2225 | 1,93       |
| 2226 | 9966022.099 | 521593.375 | 134.574 | DH 2226 | 1,93       |
| 2227 | 9966021.074 | 521589.816 | 134.477 | DH 2227 | 1,93       |
| 2228 | 9966021.397 | 521576.599 | 133.213 | DH 2228 | 1,93       |
| 2229 | 9966028.170 | 521555.569 | 130.649 | DH 2229 | 1,93       |
| 2230 | 9966018.014 | 521553.793 | 132.075 | DH 2230 | 1,93       |
| 2231 | 9966032.009 | 521583.498 | 131.615 | DH 2231 | 1,93       |
| 2232 | 9966033.590 | 521588.173 | 132.072 | DH 2232 | 1,93       |
| 2233 | 9966035.066 | 521592.116 | 132.384 | DH 2233 | 1,93       |
| 2234 | 9966030.649 | 521579.072 | 131.254 | DH 2234 | 1,93       |
| 2235 | 9966036.620 | 521584.474 | 130.435 | DH 2235 | 1,93       |
| 2236 | 9966039.468 | 521593.238 | 131.463 | DH 2236 | 1,93       |
| 2237 | 9966029.196 | 521573.992 | 131.280 | DH 2237 | 1,93       |
| 2238 | 9966035.430 | 521580.073 | 130.233 | DH 2238 | 1,93       |
| 2239 | 9966030.997 | 521565.389 | 130.903 | DH 2239 | 1,93       |
| 2240 | 9966026.835 | 521564.306 | 131.337 | DH 2240 | 1,93       |
| 2241 | 9966033.902 | 521575.239 | 129.614 | DH 2241 | 1,93       |
| 2242 | 9966041.274 | 521585.510 | 129.414 | DH 2242 | 1,93       |
| 2243 | 9966034.383 | 521561.817 | 130.355 | DH 2243 | 1,93       |
| 2244 | 9966032.596 | 521570.217 | 130.679 | DH 2244 | 1,93       |
| 2245 | 9966036.010 | 521566.534 | 129.875 | DH 2245 | 1,93       |
| 2246 | 9966039.947 | 521580.707 | 129.167 | DH 2246 | 1,93       |
| 2247 | 9966035.985 | 521566.517 | 129.946 | DH 2247 | 1,93       |
| 2248 | 9966037.240 | 521571.621 | 129.635 | DH 2248 | 1,93       |
| 2249 | 9966038.449 | 521576.167 | 129.217 | DH 2249 | 1,93       |
| 2250 | 9966042.972 | 521590.196 | 129.902 | DH 2250 | 1,93       |
| 2251 | 9966044.209 | 521594.378 | 131.029 | DH 2251 | 1,93       |
| 2252 | 9966045.186 | 521598.156 | 131.433 | DH 2252 | 1,93       |
| 2253 | 9966046.958 | 521603.149 | 131.056 | DH 2253 | 1,93       |
| 2254 | 9966046.668 | 521607.016 | 131.215 | DH 2254 | 1,93       |
| 2255 | 9966043.723 | 521606.513 | 131.941 | DH 2255 | 1,93       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2256 | 9966042.604 | 521602.373 | 132.485 | DH 2256 | 1,93       |
| 2257 | 9966028.031 | 521569.065 | 132.129 | DH 2257 | 1,93       |
| 2258 | 9966040.970 | 521610.376 | 132.557 | DH 2258 | 1,93       |
| 2259 | 9966018.214 | 521579.995 | 133.775 | DH 2259 | 1,93       |
| 2260 | 9966022.429 | 521581.305 | 133.987 | DH 2260 | 1,93       |
| 2261 | 9966102.934 | 521498.655 | 119.420 | DH 2261 | 1,40       |
| 2262 | 9966111.994 | 521512.075 | 118.804 | DH 2262 | 1,40       |
| 2263 | 9966107.810 | 521512.250 | 119.117 | DH 2263 | 1,40       |
| 2264 | 9966108.439 | 521515.916 | 118.943 | DH 2264 | 1,40       |
| 2265 | 9966104.499 | 521516.092 | 119.554 | DH 2265 | 1,40       |
| 2266 | 9966105.197 | 521519.639 | 119.431 | DH 2266 | 1,40       |
| 2267 | 9966101.903 | 521520.047 | 119.982 | DH 2267 | 1,40       |
| 2268 | 9966100.456 | 521528.388 | 119.936 | DH 2268 | 1,40       |
| 2269 | 9966103.394 | 521524.106 | 119.791 | DH 2269 | 1,40       |
| 2270 | 9966102.185 | 521532.584 | 119.829 | DH 2270 | 1,40       |
| 2271 | 9966097.331 | 521532.285 | 120.385 | DH 2271 | 1,40       |
| 2272 | 9966101.593 | 521537.730 | 120.256 | DH 2272 | 1,40       |
| 2273 | 9966094.517 | 521536.123 | 121.294 | DH 2273 | 1,40       |
| 2274 | 9966099.194 | 521536.637 | 120.785 | DH 2274 | 1,40       |
| 2275 | 9966095.604 | 521540.767 | 121.439 | DH 2275 | 1,40       |
| 2276 | 9966099.132 | 521541.804 | 120.962 | DH 2276 | 1,40       |
| 2277 | 9966092.709 | 521544.764 | 121.608 | DH 2277 | 1,40       |
| 2278 | 9966097.350 | 521545.373 | 121.237 | DH 2278 | 1,40       |
| 2279 | 9966094.731 | 521548.441 | 121.698 | DH 2279 | 1,40       |
| 2280 | 9966089.804 | 521548.472 | 121.920 | DH 2280 | 1,40       |
| 2281 | 9966091.538 | 521552.756 | 122.199 | DH 2281 | 1,40       |
| 2282 | 9966086.325 | 521552.275 | 122.565 | DH 2282 | 1,40       |
| 2283 | 9966093.359 | 521557.085 | 122.361 | DH 2283 | 1,40       |
| 2284 | 9966081.725 | 521551.258 | 122.907 | DH 2284 | 1,40       |
| 2285 | 9966083.682 | 521555.593 | 123.085 | DH 2285 | 1,40       |
| 2286 | 9966088.251 | 521556.570 | 122.675 | DH 2286 | 1,40       |
| 2287 | 9966078.454 | 521555.863 | 123.578 | DH 2287 | 1,40       |
| 2288 | 9966085.118 | 521560.929 | 123.470 | DH 2288 | 1,40       |
| 2289 | 9966082.401 | 521564.017 | 124.107 | DH 2289 | 1,40       |
| 2290 | 9966075.431 | 521559.428 | 124.053 | DH 2290 | 1,40       |
| 2291 | 9966080.662 | 521559.738 | 123.637 | DH 2291 | 1,40       |
| 2292 | 9966077.385 | 521564.059 | 124.406 | DH 2292 | 1,40       |
| 2293 | 9966077.392 | 521564.009 | 124.412 | DH 2293 | 1,40       |
| 2294 | 9966079.398 | 521568.287 | 124.672 | DH 2294 | 1,40       |
| 2295 | 9966072.367 | 521563.491 | 124.731 | DH 2295 | 1,40       |
| 2296 | 9966074.460 | 521567.801 | 125.104 | DH 2296 | 1,40       |
| 2297 | 9966075.154 | 521573.112 | 125.251 | DH 2297 | 1,40       |
| 2298 | 9966070.849 | 521571.285 | 125.771 | DH 2298 | 1,40       |
| 2299 | 9966067.549 | 521575.772 | 126.141 | DH 2299 | 1,40       |
| 2300 | 9966066.249 | 521571.088 | 125.982 | DH 2300 | 1,40       |
| 2301 | 9966064.479 | 521579.402 | 126.222 | DH 2301 | 1,40       |
| 2302 | 9966062.917 | 521574.749 | 126.787 | DH 2302 | 1,40       |
| 2303 | 9966059.506 | 521578.433 | 127.064 | DH 2303 | 1,40       |
| 2304 | 9966058.322 | 521586.356 | 127.153 | DH 2304 | 1,40       |
| 2305 | 9966058.950 | 521591.245 | 126.927 | DH 2305 | 1,40       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2306 | 9966055.625 | 521589.320 | 127.878 | DH 2306 | 1,40       |
| 2307 | 9966116.795 | 521487.786 | 118.391 | DH 2307 | 1,40       |
| 2308 | 9966109.331 | 521491.439 | 119.738 | DH 2308 | 1,40       |
| 2309 | 9966105.852 | 521494.999 | 119.398 | DH 2309 | 1,40       |
| 2310 | 9966107.638 | 521488.434 | 119.028 | DH 2310 | 1,40       |
| 2311 | 9966107.617 | 521499.126 | 118.965 | DH 2311 | 1,40       |
| 2312 | 9966104.619 | 521491.094 | 120.303 | DH 2312 | 1,40       |
| 2313 | 9966101.081 | 521494.448 | 120.462 | DH 2313 | 1,40       |
| 2314 | 9966104.486 | 521502.821 | 119.144 | DH 2314 | 1,40       |
| 2315 | 9966097.850 | 521495.191 | 120.040 | DH 2315 | 1,40       |
| 2316 | 9966099.525 | 521502.549 | 119.952 | DH 2316 | 1,40       |
| 2317 | 9966098.642 | 521498.060 | 120.011 | DH 2317 | 1,40       |
| 2318 | 9966101.588 | 521506.610 | 119.746 | DH 2318 | 1,40       |
| 2319 | 9966093.148 | 521497.871 | 120.824 | DH 2319 | 1,40       |
| 2320 | 9966096.662 | 521506.584 | 120.377 | DH 2320 | 1,40       |
| 2321 | 9966098.042 | 521510.866 | 120.449 | DH 2321 | 1,40       |
| 2322 | 9966093.740 | 521510.291 | 120.849 | DH 2322 | 1,40       |
| 2323 | 9966098.175 | 521510.712 | 120.422 | DH 2323 | 1,40       |
| 2324 | 9966089.893 | 521501.542 | 120.795 | DH 2324 | 1,40       |
| 2325 | 9966092.039 | 521505.339 | 121.156 | DH 2325 | 1,40       |
| 2326 | 9966086.871 | 521505.248 | 121.248 | DH 2326 | 1,40       |
| 2327 | 9966088.510 | 521509.275 | 121.873 | DH 2327 | 1,40       |
| 2328 | 9966084.343 | 521508.847 | 122.266 | DH 2328 | 1,40       |
| 2329 | 9966094.852 | 521514.553 | 120.439 | DH 2329 | 1,40       |
| 2330 | 9966090.571 | 521514.202 | 120.743 | DH 2330 | 1,40       |
| 2331 | 9966082.016 | 521513.369 | 122.063 | DH 2331 | 1,40       |
| 2332 | 9966091.795 | 521518.645 | 119.979 | DH 2332 | 1,40       |
| 2333 | 9966085.666 | 521514.190 | 121.612 | DH 2333 | 1,40       |
| 2334 | 9966082.749 | 521517.334 | 121.862 | DH 2334 | 1,40       |
| 2335 | 9966087.074 | 521517.695 | 121.199 | DH 2335 | 1,40       |
| 2336 | 9966084.483 | 521521.628 | 121.801 | DH 2336 | 1,40       |
| 2337 | 9966080.576 | 521520.683 | 122.386 | DH 2337 | 1,40       |
| 2338 | 9966089.229 | 521521.847 | 120.892 | DH 2338 | 1,40       |
| 2339 | 9966081.076 | 521525.603 | 122.572 | DH 2339 | 1,40       |
| 2340 | 9966078.066 | 521529.018 | 123.026 | DH 2340 | 1,40       |
| 2341 | 9966085.437 | 521525.985 | 121.703 | DH 2341 | 1,40       |
| 2342 | 9966082.851 | 521529.413 | 122.168 | DH 2342 | 1,40       |
| 2343 | 9966075.148 | 521533.351 | 123.512 | DH 2343 | 1,40       |
| 2344 | 9966079.720 | 521533.178 | 122.730 | DH 2344 | 1,40       |
| 2345 | 9966071.771 | 521536.764 | 124.263 | DH 2345 | 1,40       |
| 2346 | 9966076.787 | 521537.373 | 123.235 | DH 2346 | 1,40       |
| 2347 | 9966081.433 | 521537.904 | 122.635 | DH 2347 | 1,40       |
| 2348 | 9966068.805 | 521540.782 | 124.667 | DH 2348 | 1,40       |
| 2349 | 9966062.593 | 521548.387 | 125.624 | DH 2349 | 1,40       |
| 2350 | 9966077.953 | 521542.227 | 123.133 | DH 2350 | 1,40       |
| 2351 | 9966059.718 | 521552.728 | 126.029 | DH 2351 | 1,40       |
| 2352 | 9966070.421 | 521558.845 | 124.342 | DH 2352 | 1,40       |
| 2353 | 9966073.639 | 521554.486 | 123.990 | DH 2353 | 1,40       |
| 2354 | 9966061.215 | 521569.901 | 126.051 | DH 2354 | 1,40       |
| 2355 | 9966057.977 | 521573.732 | 126.509 | DH 2355 | 1,40       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2356 | 9966054.651 | 521577.636 | 127.498 | DH 2356 | 1,40       |
| 2357 | 9966051.556 | 521579.364 | 127.856 | DH 2357 | 1,40       |
| 2358 | 9966049.966 | 521576.555 | 127.885 | DH 2358 | 1,40       |
| 2359 | 9966082.972 | 521542.870 | 122.317 | DH 2359 | 1,40       |
| 2360 | 9966056.418 | 521582.120 | 127.593 | DH 2360 | 1,40       |
| 2361 | 9966053.314 | 521585.320 | 128.199 | DH 2361 | 1,40       |
| 2362 | 9966047.879 | 521571.663 | 127.777 | DH 2362 | 1,40       |
| 2363 | 9966086.377 | 521539.139 | 121.935 | DH 2363 | 1,40       |
| 2364 | 9966089.431 | 521535.524 | 121.531 | DH 2364 | 1,40       |
| 2365 | 9966091.794 | 521531.738 | 121.052 | DH 2365 | 1,40       |
| 2366 | 9966095.182 | 521527.688 | 120.464 | DH 2366 | 1,40       |
| 2367 | 9966098.258 | 521523.920 | 120.184 | DH 2367 | 1,40       |
| 2368 | 9966067.683 | 521562.111 | 124.786 | DH 2368 | 1,40       |
| 2369 | 9966064.156 | 521566.561 | 125.390 | DH 2369 | 1,40       |
| 2370 | 9966076.677 | 521550.758 | 123.469 | DH 2370 | 1,40       |
| 2371 | 9966080.052 | 521546.703 | 122.83  | DH 2371 | 1,40       |
| 2372 | 9966051.400 | 521568.461 | 127.023 | DH 2372 | 1,40       |
| 2373 | 9966057.975 | 521560.919 | 126.032 | DH 2373 | 1,40       |
| 2374 | 9966066.900 | 521549.576 | 124.595 | DH 2374 | 1,40       |
| 2375 | 9966062.694 | 521561.839 | 125.475 | DH 2375 | 1,40       |
| 2376 | 9966064.198 | 521553.421 | 125.086 | DH 2376 | 1,40       |
| 2377 | 9966120.346 | 521483.853 | 117.922 | DH 2377 | 1,40       |
| 2378 | 9966061.127 | 521557.088 | 125.546 | DH 2378 | 1,40       |
| 2379 | 9966065.915 | 521557.924 | 124.935 | DH 2379 | 1,40       |
| 2380 | 9966068.852 | 521554.426 | 124.578 | DH 2380 | 1,40       |
| 2381 | 9966071.848 | 521550.093 | 123.979 | DH 2381 | 1,40       |
| 2382 | 9966074.998 | 521546.247 | 123.625 | DH 2382 | 1,40       |
| 2383 | 9966070.301 | 521545.626 | 124.323 | DH 2383 | 1,40       |
| 2384 | 9966124.976 | 521484.564 | 117.571 | DH 2384 | 1,40       |
| 2385 | 9966084.461 | 521534.589 | 122.028 | DH 2385 | 1,40       |
| 2386 | 9966073.408 | 521541.325 | 123.892 | DH 2386 | 1,40       |
| 2387 | 9966087.663 | 521530.705 | 121.447 | DH 2387 | 1,40       |
| 2388 | 9966129.489 | 521485.215 | 117.049 | DH 2388 | 1,40       |
| 2389 | 9966130.357 | 521497.954 | 117.215 | DH 2389 | 1,40       |
| 2390 | 9966090.770 | 521526.870 | 120.746 | DH 2390 | 1,40       |
| 2391 | 9966093.851 | 521522.992 | 120.373 | DH 2391 | 1,40       |
| 2392 | 9966131.278 | 521489.672 | 116.815 | DH 2392 | 1,40       |
| 2393 | 9966096.879 | 521519.289 | 120.207 | DH 2393 | 1,40       |
| 2394 | 9966099.817 | 521515.642 | 120.052 | DH 2394 | 1,40       |
| 2395 | 9966103.039 | 521511.743 | 119.627 | DH 2395 | 1,40       |
| 2396 | 9966106.217 | 521507.739 | 119.196 | DH 2396 | 1,40       |
| 2397 | 9966109.401 | 521504.256 | 118.771 | DH 2397 | 1,40       |
| 2398 | 9966112.551 | 521499.888 | 118.284 | DH 2398 | 1,40       |
| 2399 | 9966069.724 | 521566.519 | 125.23  | DH 2399 | 1,40       |
| 2400 | 9966061.337 | 521583.030 | 126.657 | DH 2400 | 1,40       |
| 2401 | 9966114.856 | 521508.784 | 118.422 | DH 2401 | 1,40       |
| 2402 | 9966110.764 | 521495.901 | 118.915 | DH 2402 | 1,40       |
| 2403 | 9966114.263 | 521504.751 | 118.495 | DH 2403 | 1,40       |
| 2404 | 9966114.109 | 521491.908 | 118.604 | DH 2404 | 1,40       |
| 2405 | 9966115.814 | 521496.500 | 118.187 | DH 2405 | 1,40       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2406 | 9966118.919 | 521492.487 | 117.989 | DH 2406 | 1,40       |
| 2407 | 9966121.037 | 521496.548 | 117.748 | DH 2407 | 1,40       |
| 2408 | 9966118.796 | 521505.665 | 117.731 | DH 2408 | 1,40       |
| 2409 | 9966121.842 | 521488.726 | 117.782 | DH 2409 | 1,40       |
| 2410 | 9966117.164 | 521501.286 | 118.058 | DH 2410 | 1,40       |
| 2411 | 9966123.429 | 521493.195 | 117.605 | DH 2411 | 1,40       |
| 2412 | 9966122.147 | 521501.739 | 117.586 | DH 2412 | 1,40       |
| 2413 | 9966125.301 | 521497.727 | 117.559 | DH 2413 | 1,40       |
| 2414 | 9966126.104 | 521501.783 | 117.269 | DH 2414 | 1,40       |
| 2415 | 9966128.154 | 521493.667 | 117.322 | DH 2415 | 1,40       |
| 2416 | 9966126.808 | 521489.403 | 117.343 | DH 2416 | 1,40       |
| 2417 | 9966133.043 | 521494.433 | 117.048 | DH 2417 | 1,40       |
| 2418 | 9966223.936 | 521609.239 | 86.468  | DH 2418 | 1,65       |
| 2419 | 9966213.214 | 521604.630 | 87.955  | DH 2419 | 1,65       |
| 2420 | 9966207.932 | 521602.192 | 88.741  | DH 2420 | 1,65       |
| 2421 | 9966202.218 | 521600.057 | 89.331  | DH 2421 | 1,65       |
| 2422 | 9966196.888 | 521597.571 | 90.029  | DH 2422 | 1,65       |
| 2423 | 9966218.836 | 521612.651 | 86.758  | DH 2423 | 1,65       |
| 2424 | 9966191.095 | 521595.557 | 90.805  | DH 2424 | 1,65       |
| 2425 | 9966214.110 | 521616.382 | 87.559  | DH 2425 | 1,65       |
| 2426 | 9966185.835 | 521593.422 | 90.668  | DH 2426 | 1,65       |
| 2427 | 9966208.896 | 521620.032 | 88.491  | DH 2427 | 1,65       |
| 2428 | 9966180.331 | 521591.725 | 90.785  | DH 2428 | 1,65       |
| 2429 | 9966204.209 | 521616.813 | 88.919  | DH 2429 | 1,65       |
| 2430 | 9966208.543 | 521613.886 | 88.444  | DH 2430 | 1,65       |
| 2431 | 9966217.979 | 521601.184 | 87.054  | DH 2431 | 1,65       |
| 2432 | 9966213.480 | 521610.611 | 87.908  | DH 2432 | 1,65       |
| 2433 | 9966177.890 | 521599.435 | 91.053  | DH 2433 | 1,65       |
| 2434 | 9966223.037 | 521603.057 | 86.342  | DH 2434 | 1,65       |
| 2435 | 9966208.007 | 521608.173 | 88.663  | DH 2435 | 1,65       |
| 2436 | 9966181.001 | 521596.956 | 90.918  | DH 2436 | 1,65       |
| 2437 | 9966222.911 | 521597.292 | 86.079  | DH 2437 | 1,65       |
| 2438 | 9966203.467 | 521611.839 | 89.180  | DH 2438 | 1,65       |
| 2439 | 9966222.140 | 521591.377 | 85.948  | DH 2439 | 1,65       |
| 2440 | 9966182.527 | 521602.535 | 90.824  | DH 2440 | 1,65       |
| 2441 | 9966216.793 | 521589.246 | 86.695  | DH 2441 | 1,65       |
| 2442 | 9966188.047 | 521604.395 | 91.252  | DH 2442 | 1,65       |
| 2443 | 9966217.492 | 521595.100 | 86.691  | DH 2443 | 1,65       |
| 2444 | 9966192.346 | 521610.971 | 90.668  | DH 2444 | 1,65       |
| 2445 | 9966191.829 | 521601.255 | 90.759  | DH 2445 | 1,65       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2446 | 9966212.628 | 521598.746 | 87.943  | DH 2446 | 1,65       |
| 2447 | 9966189.645 | 521608.902 | 90.953  | DH 2447 | 1,65       |
| 2448 | 9966212.158 | 521592.870 | 87.605  | DH 2448 | 1,65       |
| 2449 | 9966192.584 | 521607.278 | 90.772  | DH 2449 | 1,65       |
| 2450 | 9966196.129 | 521592.025 | 89.848  | DH 2450 | 1,65       |
| 2451 | 9966211.135 | 521587.118 | 87.547  | DH 2451 | 1,65       |
| 2452 | 9966201.563 | 521594.301 | 89.356  | DH 2452 | 1,65       |
| 2453 | 9966201.231 | 521588.271 | 89.198  | DH 2453 | 1,65       |
| 2454 | 9966206.012 | 521586.383 | 88.494  | DH 2454 | 1,65       |
| 2455 | 9966206.487 | 521590.372 | 88.586  | DH 2455 | 1,65       |
| 2456 | 9966249.703 | 521584.799 | 89.736  | DH 2456 | 1,65       |
| 2457 | 9966258.308 | 521584.489 | 90.028  | DH 2457 | 1,65       |
| 2458 | 9966245.733 | 521583.389 | 90.463  | DH 2458 | 1,65       |
| 2459 | 9966249.479 | 521580.377 | 90.020  | DH 2459 | 1,65       |
| 2460 | 9966262.468 | 521581.450 | 90.347  | DH 2460 | 1,65       |
| 2461 | 9966241.924 | 521580.632 | 90.874  | DH 2461 | 1,65       |
| 2462 | 9966245.276 | 521578.726 | 90.702  | DH 2462 | 1,65       |
| 2463 | 9966266.192 | 521578.913 | 90.665  | DH 2463 | 1,65       |
| 2464 | 9966240.793 | 521576.711 | 91.326  | DH 2464 | 1,65       |
| 2465 | 9966244.597 | 521573.857 | 90.746  | DH 2465 | 1,65       |
| 2466 | 9966262.081 | 521576.712 | 90.324  | DH 2466 | 1,65       |
| 2467 | 9966240.296 | 521571.852 | 91.174  | DH 2467 | 1,65       |
| 2468 | 9966238.430 | 521576.749 | 91.611  | DH 2468 | 1,65       |
| 2469 | 9966236.450 | 521574.238 | 91.480  | DH 2469 | 1,65       |
| 2470 | 9966258.117 | 521579.454 | 90.083  | DH 2470 | 1,65       |
| 2471 | 9966243.642 | 521568.995 | 90.651  | DH 2471 | 1,65       |
| 2472 | 9966234.778 | 521579.642 | 89.760  | DH 2472 | 1,65       |
| 2473 | 9966254.550 | 521582.504 | 89.987  | DH 2473 | 1,65       |
| 2474 | 9966248.381 | 521566.256 | 90.081  | DH 2474 | 1,65       |
| 2475 | 9966231.187 | 521580.931 | 90.375  | DH 2475 | 1,65       |
| 2476 | 9966253.628 | 521577.264 | 89.996  | DH 2476 | 1,65       |
| 2477 | 9966248.732 | 521570.055 | 90.116  | DH 2477 | 1,65       |
| 2478 | 9966230.568 | 521576.820 | 89.939  | DH 2478 | 1,65       |
| 2479 | 9966249.233 | 521575.628 | 90.187  | DH 2479 | 1,65       |
| 2480 | 9966252.713 | 521572.808 | 90.089  | DH 2480 | 1,65       |
| 2481 | 9966226.860 | 521580.269 | 90.690  | DH 2481 | 1,65       |
| 2482 | 9966257.139 | 521569.954 | 90.146  | DH 2482 | 1,65       |
| 2483 | 9966252.405 | 521567.673 | 90.186  | DH 2483 | 1,65       |
| 2484 | 9966222.815 | 521577.724 | 90.844  | DH 2484 | 1,65       |
| 2485 | 9966256.738 | 521564.933 | 90.223  | DH 2485 | 1,65       |
| 2486 | 9966243.438 | 521563.965 | 90.125  | DH 2486 | 1,65       |
| 2487 | 9966220.346 | 521579.407 | 91.043  | DH 2487 | 1,65       |
| 2488 | 9966252.512 | 521562.970 | 90.225  | DH 2488 | 1,65       |
| 2489 | 9966239.361 | 521566.394 | 90.055  | DH 2489 | 1,65       |
| 2490 | 9966218.340 | 521576.386 | 91.072  | DH 2490 | 1,65       |
| 2491 | 9966247.922 | 521561.065 | 90.212  | DH 2491 | 1,65       |
| 2492 | 9966238.306 | 521562.390 | 89.977  | DH 2492 | 1,65       |
| 2493 | 9966218.098 | 521571.639 | 91.309  | DH 2493 | 1,65       |
| 2494 | 9966243.508 | 521559.297 | 90.177  | DH 2494 | 1,65       |
| 2495 | 9966234.351 | 521564.745 | 89.914  | DH 2495 | 1,65       |
| 2496 | 9966222.503 | 521573.149 | 90.936  | DH 2496 | 1,65       |
| 2497 | 9966238.437 | 521557.400 | 90.157  | DH 2497 | 1,65       |
| 2498 | 9966235.010 | 521569.751 | 90.562  | DH 2498 | 1,65       |
| 2499 | 9966226.474 | 521575.136 | 90.470  | DH 2499 | 1,65       |
| 2500 | 9966234.163 | 521555.311 | 90.112  | DH 2500 | 1,65       |
| 2501 | 9966230.419 | 521568.564 | 89.884  | DH 2501 | 1,65       |
| 2502 | 9966230.843 | 521572.987 | 90.228  | DH 2502 | 1,65       |
| 2503 | 9966234.412 | 521560.225 | 90.034  | DH 2503 | 1,65       |
| 2504 | 9966226.048 | 521565.812 | 90.144  | DH 2504 | 1,65       |
| 2505 | 9966226.608 | 521570.166 | 90.473  | DH 2505 | 1,65       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2506 | 9966229.012 | 521558.057 | 90.192  | DH 2506 | 1,65       |
| 2507 | 9966221.545 | 521564.212 | 90.534  | DH 2507 | 1,65       |
| 2508 | 9966222.403 | 521568.720 | 91.074  | DH 2508 | 1,65       |
| 2509 | 9966226.165 | 521561.290 | 90.139  | DH 2509 | 1,65       |
| 2510 | 9966218.711 | 521565.020 | 91.494  | DH 2510 | 1,65       |
| 2511 | 9966217.821 | 521567.401 | 91.870  | DH 2511 | 1,65       |
| 2512 | 9966229.257 | 521564.455 | 90.012  | DH 2512 | 1,65       |
| 2513 | 9966213.500 | 521566.829 | 92.148  | DH 2513 | 1,65       |
| 2514 | 9966208.928 | 521565.050 | 92.264  | DH 2514 | 1,65       |
| 2515 | 9966204.296 | 521563.195 | 92.147  | DH 2515 | 1,65       |
| 2516 | 9966207.388 | 521561.293 | 92.072  | DH 2516 | 1,65       |
| 2517 | 9966238.666 | 521552.118 | 90.068  | DH 2517 | 1,65       |
| 2518 | 9966242.603 | 521554.139 | 89.949  | DH 2518 | 1,65       |
| 2519 | 9966242.182 | 521549.859 | 90.055  | DH 2519 | 1,65       |
| 2520 | 9966247.378 | 521556.054 | 90.030  | DH 2520 | 1,65       |
| 2521 | 9966246.383 | 521546.475 | 90.207  | DH 2521 | 1,65       |
| 2522 | 9966247.009 | 521551.346 | 90.096  | DH 2522 | 1,65       |
| 2523 | 9966250.626 | 521543.485 | 90.539  | DH 2523 | 1,65       |
| 2524 | 9966218.224 | 521606.958 | 87.001  | DH 2524 | 1,65       |
| 2525 | 9966176.185 | 521594.653 | 90.969  | DH 2525 | 1,65       |
| 2526 | 9966173.308 | 521597.489 | 91.019  | DH 2526 | 1,65       |
| 2527 | 9966186.223 | 521599.196 | 91.026  | DH 2527 | 1,65       |
| 2528 | 9966202.508 | 521605.823 | 89.29   | DH 2528 | 1,65       |
| 2529 | 9966198.022 | 521609.359 | 89.884  | DH 2529 | 1,65       |
| 2530 | 9966197.237 | 521603.379 | 90.216  | DH 2530 | 1,65       |
| 2531 | 9966206.835 | 521596.490 | 88.435  | DH 2531 | 1,65       |
| 2532 | 9966254.434 | 521587.339 | 89.527  | DH 2532 | 1,65       |
| 2533 | 9966257.137 | 521574.759 | 90.159  | DH 2533 | 1,65       |
| 2534 | 9966213.797 | 521562.299 | 90.802  | DH 2534 | 1,65       |
| 2535 | 9966213.173 | 521558.716 | 91.140  | DH 2535 | 1,65       |
| 2536 | 9966228.929 | 521547.825 | 90.513  | DH 2536 | 1,65       |
| 2537 | 9966225.772 | 521550.733 | 90.312  | DH 2537 | 1,65       |
| 2538 | 9966229.953 | 521553.223 | 90.211  | DH 2538 | 1,65       |
| 2539 | 9966234.376 | 521550.848 | 90.004  | DH 2539 | 1,65       |
| 2540 | 9966221.089 | 521554.279 | 90.100  | DH 2540 | 1,65       |
| 2541 | 9966225.814 | 521556.755 | 90.208  | DH 2541 | 1,65       |
| 2542 | 9966221.613 | 521559.252 | 90.454  | DH 2542 | 1,65       |
| 2543 | 9966252.228 | 521558.732 | 90.281  | DH 2543 | 1,65       |
| 2544 | 9966256.100 | 521555.251 | 90.321  | DH 2544 | 1,65       |
| 2545 | 9966256.415 | 521560.025 | 90.403  | DH 2545 | 1,65       |
| 2546 | 9966251.433 | 521553.229 | 90.207  | DH 2546 | 1,65       |
| 2547 | 9966260.463 | 521552.438 | 90.569  | DH 2547 | 1,65       |
| 2548 | 9966260.790 | 521562.076 | 90.188  | DH 2548 | 1,65       |
| 2549 | 9966255.518 | 521550.328 | 90.412  | DH 2549 | 1,65       |
| 2550 | 9966260.535 | 521557.256 | 90.316  | DH 2550 | 1,65       |
| 2551 | 9966261.139 | 521566.766 | 90.192  | DH 2551 | 1,65       |
| 2552 | 9966260.489 | 521552.419 | 90.561  | DH 2552 | 1,65       |
| 2553 | 9966265.092 | 521559.371 | 90.615  | DH 2553 | 1,65       |
| 2554 | 9966261.901 | 521571.815 | 90.240  | DH 2554 | 1,65       |
| 2555 | 9966264.879 | 521554.546 | 90.531  | DH 2555 | 1,65       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPV AKTUAL |
|------|-------------|------------|---------|---------|------------|
| 2556 | 9966269.749 | 521561.465 | 90.778  | DH 2556 | 1,65       |
| 2557 | 9966269.801 | 521566.389 | 90.664  | DH 2557 | 1,65       |
| 2558 | 9966265.671 | 521569.209 | 90.506  | DH 2558 | 1,65       |
| 2559 | 9966269.371 | 521556.514 | 90.557  | DH 2559 | 1,65       |
| 2560 | 9966270.217 | 521571.230 | 90.596  | DH 2560 | 1,65       |
| 2561 | 9966265.415 | 521564.298 | 90.453  | DH 2561 | 1,65       |
| 2562 | 9966270.865 | 521576.056 | 90.765  | DH 2562 | 1,65       |
| 2563 | 9966273.359 | 521553.694 | 90.472  | DH 2563 | 1,65       |
| 2564 | 9966274.469 | 521568.009 | 91.304  | DH 2564 | 1,65       |
| 2565 | 9966274.927 | 521573.195 | 90.639  | DH 2565 | 1,65       |
| 2566 | 9966268.984 | 521551.643 | 90.259  | DH 2566 | 1,65       |
| 2567 | 9966264.577 | 521549.549 | 90.700  | DH 2567 | 1,65       |
| 2568 | 9966259.872 | 521547.511 | 90.629  | DH 2568 | 1,65       |
| 2569 | 9966255.139 | 521545.517 | 90.660  | DH 2569 | 1,65       |
| 2570 | 9966249.204 | 521548.988 | 90.152  | DH 2570 | 1,65       |
| 2571 | 9966149.755 | 521741.363 | 90.446  | DH 2571 | 1,65       |
| 2572 | 9966149.011 | 521736.161 | 89.873  | DH 2572 | 1,65       |
| 2573 | 9966143.665 | 521740.868 | 90.426  | DH 2573 | 1,65       |
| 2574 | 9966142.622 | 521735.207 | 89.875  | DH 2574 | 1,65       |
| 2575 | 9966133.723 | 521737.687 | 89.662  | DH 2575 | 1,65       |
| 2576 | 9966147.486 | 521731.062 | 89.85   | DH 2576 | 1,65       |
| 2577 | 9966138.320 | 521739.211 | 89.891  | DH 2577 | 1,65       |
| 2578 | 9966141.903 | 521729.614 | 89.988  | DH 2578 | 1,65       |
| 2579 | 9966137.461 | 521732.573 | 89.639  | DH 2579 | 1,65       |
| 2580 | 9966140.444 | 521723.561 | 89.925  | DH 2580 | 1,65       |
| 2581 | 9966136.139 | 521727.510 | 89.599  | DH 2581 | 1,65       |
| 2582 | 9966144.964 | 521719.809 | 89.964  | DH 2582 | 1,65       |
| 2583 | 9966131.612 | 521731.033 | 89.333  | DH 2583 | 1,65       |
| 2584 | 9966151.400 | 521727.762 | 89.199  | DH 2584 | 1,65       |
| 2585 | 9966150.851 | 521722.021 | 89.136  | DH 2585 | 1,65       |
| 2586 | 9966127.652 | 521734.912 | 89.182  | DH 2586 | 1,65       |
| 2587 | 9966156.426 | 521723.726 | 88.406  | DH 2587 | 1,65       |
| 2588 | 9966157.394 | 521729.097 | 88.332  | DH 2588 | 1,65       |
| 2589 | 9966126.265 | 521729.128 | 89.118  | DH 2589 | 1,65       |
| 2590 | 9966162.032 | 521725.817 | 87.542  | DH 2590 | 1,65       |
| 2591 | 9966162.957 | 521731.818 | 86.954  | DH 2591 | 1,65       |
| 2592 | 9966167.483 | 521727.516 | 86.488  | DH 2592 | 1,65       |
| 2593 | 9966167.222 | 521732.994 | 86.281  | DH 2593 | 1,65       |
| 2594 | 9966133.841 | 521715.780 | 89.739  | DH 2594 | 1,65       |
| 2595 | 9966172.694 | 521729.333 | 85.408  | DH 2595 | 1,65       |
| 2596 | 9966174.196 | 521735.312 | 85.211  | DH 2596 | 1,65       |
| 2597 | 9966178.711 | 521730.920 | 84.456  | DH 2597 | 1,65       |
| 2598 | 9966179.696 | 521736.627 | 84.520  | DH 2598 | 1,65       |
| 2599 | 9966129.668 | 521719.601 | 89.155  | DH 2599 | 1,65       |
| 2600 | 9966171.531 | 521723.412 | 85.571  | DH 2600 | 1,65       |
| 2601 | 9966180.972 | 521721.034 | 83.606  | DH 2601 | 1,65       |
| 2602 | 9966124.971 | 521723.059 | 88.883  | DH 2602 | 1,65       |
| 2603 | 9966165.927 | 521721.918 | 86.986  | DH 2603 | 1,65       |
| 2604 | 9966175.665 | 521719.566 | 84.993  | DH 2604 | 1,65       |
| 2605 | 9966123.557 | 521717.576 | 88.705  | DH 2605 | 1,65       |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPVAKTUAL |
|------|-------------|------------|---------|---------|-----------|
| 2606 | 9966159.838 | 521719.668 | 88.002  | DH 2606 | 1,65      |
| 2607 | 9966170.240 | 521717.978 | 86.165  | DH 2607 | 1,65      |
| 2608 | 9966127.663 | 521713.866 | 89.221  | DH 2608 | 1,65      |
| 2609 | 9966154.952 | 521718.051 | 88.449  | DH 2609 | 1,65      |
| 2610 | 9966179.877 | 521715.418 | 84.379  | DH 2610 | 1,65      |
| 2611 | 9966122.873 | 521711.840 | 89.046  | DH 2611 | 1,65      |
| 2612 | 9966148.612 | 521715.401 | 89.222  | DH 2612 | 1,65      |
| 2613 | 9966173.963 | 521713.767 | 85.487  | DH 2613 | 1,65      |
| 2614 | 9966132.038 | 521710.233 | 89.774  | DH 2614 | 1,65      |
| 2615 | 9966143.214 | 521713.533 | 89.521  | DH 2615 | 1,65      |
| 2616 | 9966168.874 | 521712.376 | 86.504  | DH 2616 | 1,65      |
| 2617 | 9966163.605 | 521710.488 | 87.442  | DH 2617 | 1,65      |
| 2618 | 9966130.953 | 521704.285 | 89.634  | DH 2618 | 1,65      |
| 2619 | 9966141.986 | 521707.866 | 89.574  | DH 2619 | 1,65      |
| 2620 | 9966164.613 | 521716.119 | 87.112  | DH 2620 | 1,65      |
| 2621 | 9966125.687 | 521708.253 | 89.234  | DH 2621 | 1,65      |
| 2622 | 9966147.390 | 521710.025 | 89.102  | DH 2622 | 1,65      |
| 2623 | 9966159.135 | 521714.263 | 88.134  | DH 2623 | 1,65      |
| 2624 | 9966120.771 | 521706.050 | 89.070  | DH 2624 | 1,65      |
| 2625 | 9966152.672 | 521711.835 | 88.702  | DH 2625 | 1,65      |
| 2626 | 9966157.836 | 521708.216 | 87.845  | DH 2626 | 1,65      |
| 2627 | 9966125.827 | 521702.426 | 85.386  | DH 2627 | 1,65      |
| 2628 | 9966145.925 | 521704.062 | 89.063  | DH 2628 | 1,65      |
| 2629 | 9966145.667 | 521698.430 | 89.432  | DH 2629 | 1,65      |
| 2630 | 9966145.971 | 521704.067 | 89.012  | DH 2630 | 1,65      |
| 2631 | 9966120.255 | 521700.277 | 89.447  | DH 2631 | 1,65      |
| 2632 | 9966130.285 | 521698.448 | 89.324  | DH 2632 | 1,65      |
| 2633 | 9966135.774 | 521699.961 | 89.738  | DH 2633 | 1,65      |
| 2634 | 9966128.951 | 521692.609 | 89.546  | DH 2634 | 1,65      |
| 2635 | 9966119.008 | 521694.427 | 90.003  | DH 2635 | 1,65      |
| 2636 | 9966134.602 | 521694.240 | 89.647  | DH 2636 | 1,65      |
| 2637 | 9966123.716 | 521690.686 | 89.549  | DH 2637 | 1,65      |
| 2638 | 9966114.288 | 521699.035 | 89.581  | DH 2638 | 1,65      |
| 2639 | 9966118.279 | 521689.023 | 89.703  | DH 2639 | 1,65      |
| 2640 | 9966110.634 | 521690.707 | 89.765  | DH 2640 | 1,65      |
| 2641 | 9966127.837 | 521686.122 | 89.641  | DH 2641 | 1,65      |
| 2642 | 9966113.763 | 521692.517 | 89.791  | DH 2642 | 1,65      |
| 2643 | 9966112.688 | 521687.129 | 89.801  | DH 2643 | 1,65      |
| 2644 | 9966122.284 | 521684.688 | 89.772  | DH 2644 | 1,65      |
| 2645 | 9966117.179 | 521682.842 | 90.048  | DH 2645 | 1,65      |
| 2646 | 9966111.401 | 521681.110 | 89.862  | DH 2646 | 1,65      |
| 2647 | 9966105.649 | 521679.568 | 89.846  | DH 2647 | 1,65      |
| 2648 | 9966115.816 | 521676.881 | 89.777  | DH 2648 | 1,65      |
| 2649 | 9966125.582 | 521675.007 | 90.288  | DH 2649 | 1,65      |
| 2650 | 9966100.128 | 521680.379 | 90.451  | DH 2650 | 1,65      |
| 2651 | 9966124.132 | 521669.259 | 90.645  | DH 2651 | 1,65      |
| 2652 | 9966096.317 | 521677.440 | 90.776  | DH 2652 | 1,65      |
| 2653 | 9966114.333 | 521671.243 | 89.617  | DH 2653 | 1,65      |
| 2654 | 9966100.198 | 521677.142 | 90.138  | DH 2654 | 1,65      |
| 2655 | 9966118.817 | 521667.225 | 90.804  | DH 2655 | 1,65      |

| NO.  | NORTHING    | EASTING    | ELEVASI | CODE    | PPVAKTUAL |
|------|-------------|------------|---------|---------|-----------|
| 2656 | 9966108.901 | 521668.930 | 89.590  | DH 2656 | 1,65      |
| 2657 | 9966098.900 | 521672.845 | 90.073  | DH 2657 | 1,65      |
| 2658 | 9966117.756 | 521661.682 | 91.288  | DH 2658 | 1,65      |
| 2659 | 9966103.785 | 521673.221 | 89.477  | DH 2659 | 1,65      |
| 2660 | 9966127.429 | 521658.889 | 90.216  | DH 2660 | 1,65      |
| 2661 | 9966128.563 | 521665.672 | 89.819  | DH 2661 | 1,65      |
| 2662 | 9966129.810 | 521670.596 | 90.218  | DH 2662 | 1,65      |
| 2663 | 9966130.731 | 521676.973 | 89.902  | DH 2663 | 1,65      |
| 2664 | 9966136.803 | 521678.405 | 89.612  | DH 2664 | 1,65      |
| 2665 | 9966140.838 | 521674.636 | 89.720  | DH 2665 | 1,65      |
| 2666 | 9966141.638 | 521680.736 | 89.569  | DH 2666 | 1,65      |
| 2667 | 9966143.555 | 521687.226 | 89.467  | DH 2667 | 1,65      |
| 2668 | 9966145.608 | 521676.207 | 89.403  | DH 2668 | 1,65      |
| 2669 | 9966144.295 | 521692.300 | 89.746  | DH 2669 | 1,65      |
| 2670 | 9966140.077 | 521696.455 | 89.743  | DH 2670 | 1,65      |
| 2671 | 9966146.862 | 521683.277 | 89.347  | DH 2671 | 1,65      |
| 2672 | 9966141.065 | 521702.250 | 89.390  | DH 2672 | 1,65      |
| 2673 | 9966156.588 | 521702.995 | 87.849  | DH 2673 | 1,65      |
| 2674 | 9966162.083 | 521704.234 | 87.493  | DH 2674 | 1,65      |
| 2675 | 9966154.852 | 521696.825 | 88.121  | DH 2675 | 1,65      |
| 2676 | 9966159.553 | 521693.320 | 87.613  | DH 2676 | 1,65      |
| 2677 | 9966160.694 | 521698.563 | 87.502  | DH 2677 | 1,65      |
| 2678 | 9966153.688 | 521691.225 | 88.504  | DH 2678 | 1,65      |
| 2679 | 9966152.792 | 521685.360 | 88.581  | DH 2679 | 1,65      |
| 2680 | 9966148.547 | 521689.676 | 89.268  | DH 2680 | 1,65      |
| 2681 | 9966151.171 | 521679.147 | 88.782  | DH 2681 | 1,65      |
| 2682 | 9966158.145 | 521687.210 | 87.852  | DH 2682 | 1,65      |
| 2683 | 9966149.876 | 521673.607 | 88.637  | DH 2683 | 1,65      |
| 2684 | 9966145.451 | 521676.175 | 89.430  | DH 2684 | 1,65      |
| 2685 | 9966156.813 | 521681.334 | 88.143  | DH 2685 | 1,65      |
| 2686 | 9966153.529 | 521669.764 | 88.136  | DH 2686 | 1,65      |
| 2687 | 9966158.191 | 521671.273 | 87.580  | DH 2687 | 1,65      |
| 2688 | 9966155.323 | 521675.535 | 88.043  | DH 2688 | 1,65      |
| 2689 | 9966146.274 | 521725.686 | 89.663  | DH 2689 | 1,65      |
| 2690 | 9966137.959 | 521711.708 | 90.050  | DH 2690 | 1,65      |
| 2691 | 9966136.827 | 521705.950 | 89.795  | DH 2691 | 1,65      |
| 2692 | 9966124.501 | 521696.706 | 89.495  | DH 2692 | 1,65      |
| 2693 | 9966133.375 | 521688.454 | 89.770  | DH 2693 | 1,65      |
| 2694 | 9966108.151 | 521684.975 | 89.816  | DH 2694 | 1,65      |
| 2695 | 9966126.731 | 521680.819 | 89.829  | DH 2695 | 1,65      |
| 2696 | 9966121.240 | 521678.926 | 90.340  | DH 2696 | 1,65      |
| 2697 | 9966110.743 | 521676.182 | 89.596  | DH 2697 | 1,65      |
| 2698 | 9966119.978 | 521672.930 | 90.725  | DH 2698 | 1,65      |
| 2699 | 9966123.099 | 521663.031 | 90.462  | DH 2699 | 1,65      |
| 2700 | 9966135.448 | 521672.675 | 89.714  | DH 2700 | 1,65      |
| 2701 | 9966132.195 | 521682.593 | 89.746  | DH 2701 | 1,65      |
| 2702 | 9966137.773 | 521684.565 | 89.674  | DH 2702 | 1,65      |
| 2703 | 9966138.846 | 521690.255 | 89.559  | DH 2703 | 1,65      |
| 2704 | 9966149.778 | 521694.558 | 88.692  | DH 2704 | 1,65      |
| 2705 | 9966160.270 | 521677.515 | 87.523  | DH 2705 | 1,65      |
| 2706 | 9966163.887 | 521672.982 | 86.811  | DH 2706 | 1,65      |
| 2707 | 9966167.433 | 521684.829 | 86.512  | DH 2707 | 1,65      |
| 2708 | 9966165.494 | 521678.639 | 86.606  | DH 2708 | 1,65      |
| 2709 | 9966170.403 | 521696.711 | 85.359  | DH 2709 | 1,65      |
| 2710 | 9966168.897 | 521690.670 | 85.343  | DH 2710 | 1,65      |
| 2711 | 9966164.752 | 521695.048 | 85.975  | DH 2711 | 1,65      |
| 2712 | 9966166.094 | 521700.744 | 86.160  | DH 2712 | 1,65      |
| 2713 | 9966173.158 | 521708.101 | 85.005  | DH 2713 | 1,65      |
| 2714 | 9966167.515 | 521706.504 | 85.950  | DH 2714 | 1,65      |
| 2715 | 9966171.735 | 521701.997 | 85.340  | DH 2715 | 1,65      |
| 2716 | 9966173.123 | 521708.194 | 85.017  | DH 2716 | 1,65      |
| 2717 | 9966162.258 | 521666.933 | 86.941  | DH 2717 | 1,65      |



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI  
**UNIVERSITAS NEGERI PADANG**  
**SEKOLAH PASCASARJANA**

Jalan Prof. Dr. Hamka Air Tawar Padang 25131 Telepon (0751) 7051147,  
(0751) 445087, Faksimile (0751) 445088, Operator UNP (0751) 7051260

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Nomor : 2621/UN35.11.1/LT/2023  
Hal : **Mohon Izin Observasi/  
Pengambilan Data Awal Penelitian**

20 Juli 2023

Yth. Bapak/Ibu Pimpinan **PT. Insani Baraperkasa**  
di-  
Samarinda, Kalimantan Timur

Dengan hormat,

Bersama ini, kami sampaikan bahwa mahasiswa Program Doktor (S-3) Sekolah Pascasarjana Universitas Negeri Padang yang namanya tertera di bawah ini:

Nama : **Nur Efendi**  
NIM : 22327023  
Program Studi : Ilmu Lingkungan

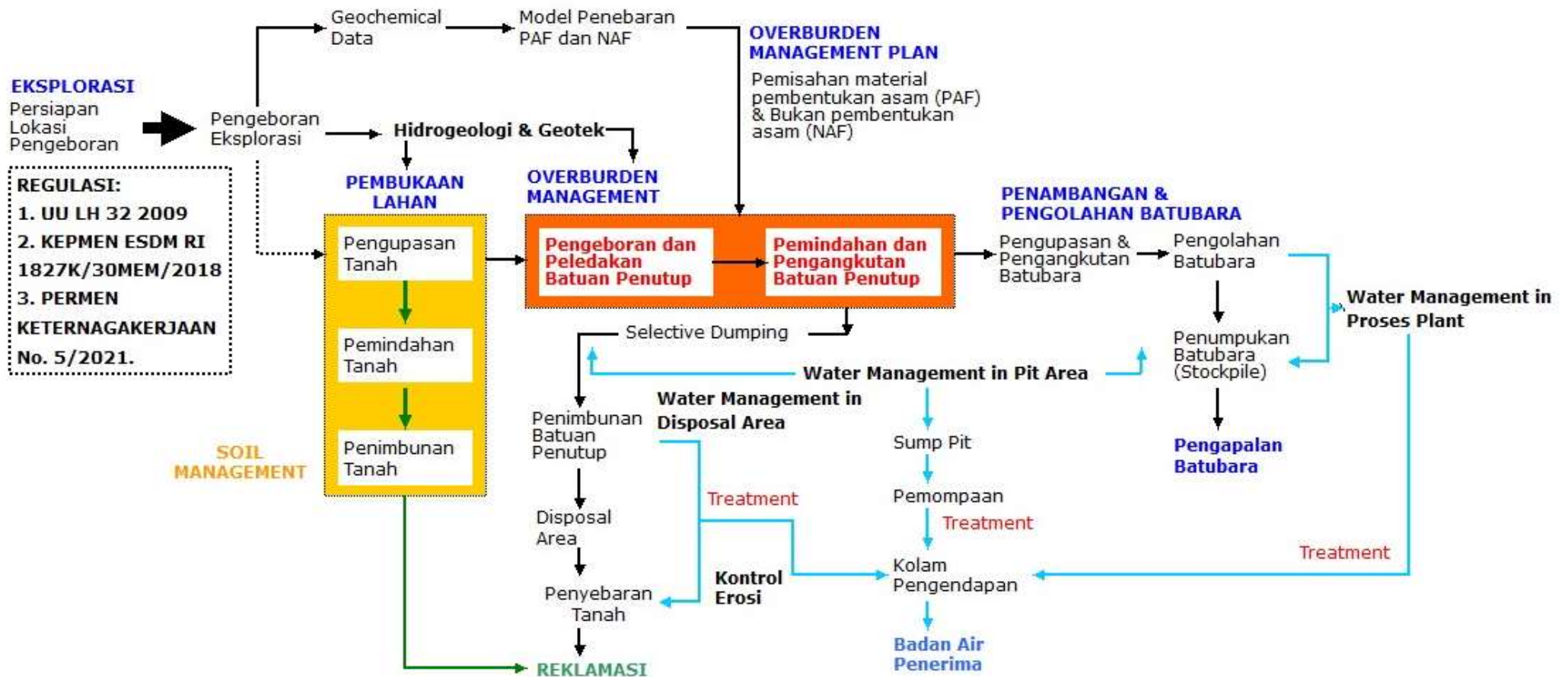
akan melaksanakan penelitian dalam rangka penulisan Disertasi dengan judul: "**Analisis Dampak Getaran Peledakan di Wilayah Pertambangan terhadap Lingkungan dan Bangunan Sekitar dengan Metoda Geostatistika**". Dalam melaksanakan penelitian ini, yang bersangkutan membutuhkan beberapa data yang terdapat di instansi yang Bapak/Ibu pimpin. Sehubungan dengan itu, kami mengharapkan bantuan Bapak/Ibu untuk menyediakan data penelitian yang dibutuhkan kepada yang bersangkutan.

Demikianlah kami sampaikan, atas bantuan dan kerja sama Bapak/Ibu kami ucapkan terima kasih.

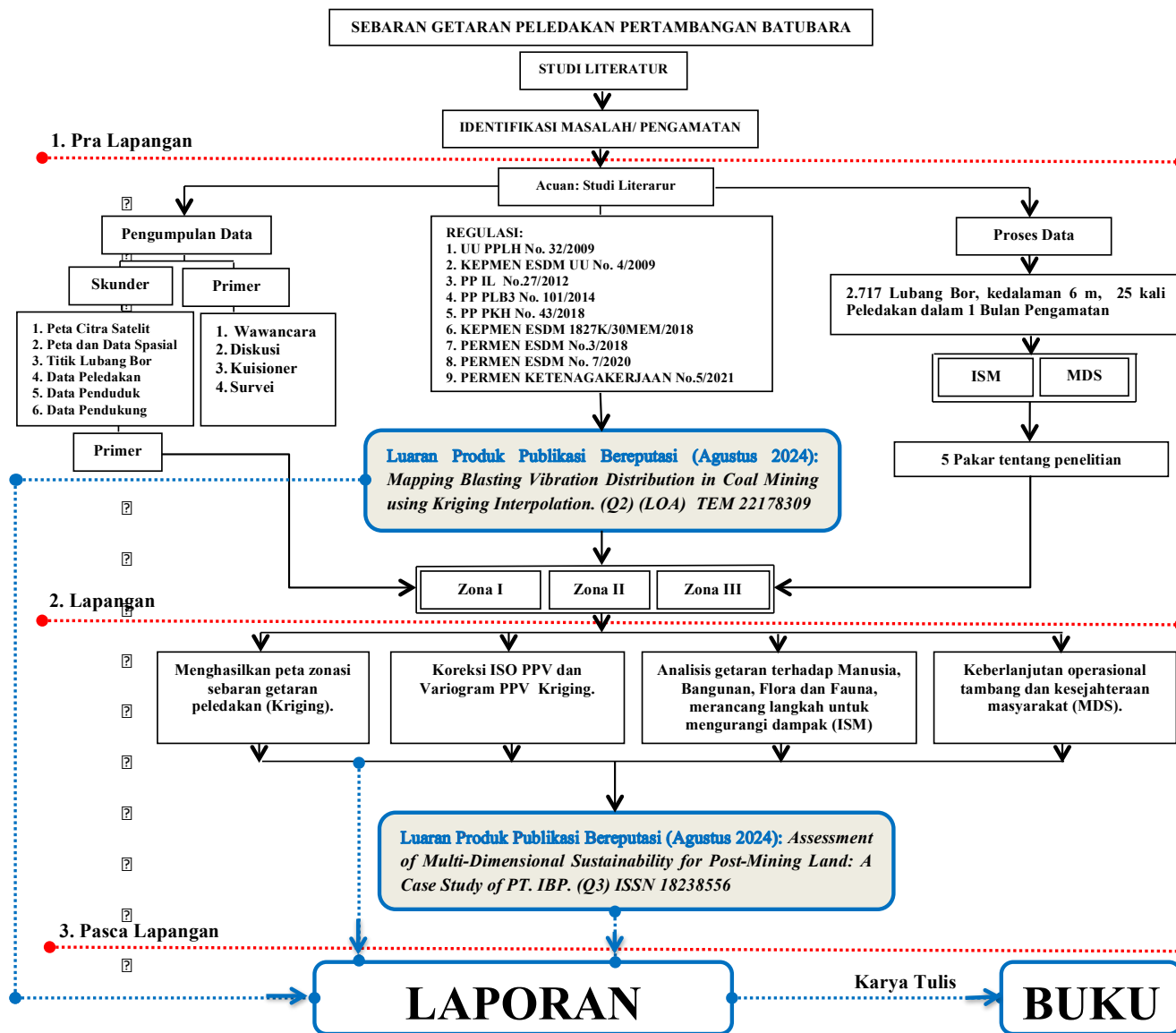
a.n. Direktur  
Wakil Direktur I,

**Prof. Dr. Indang Dewata, M.Si.**  
NIP. 196511181991021 003

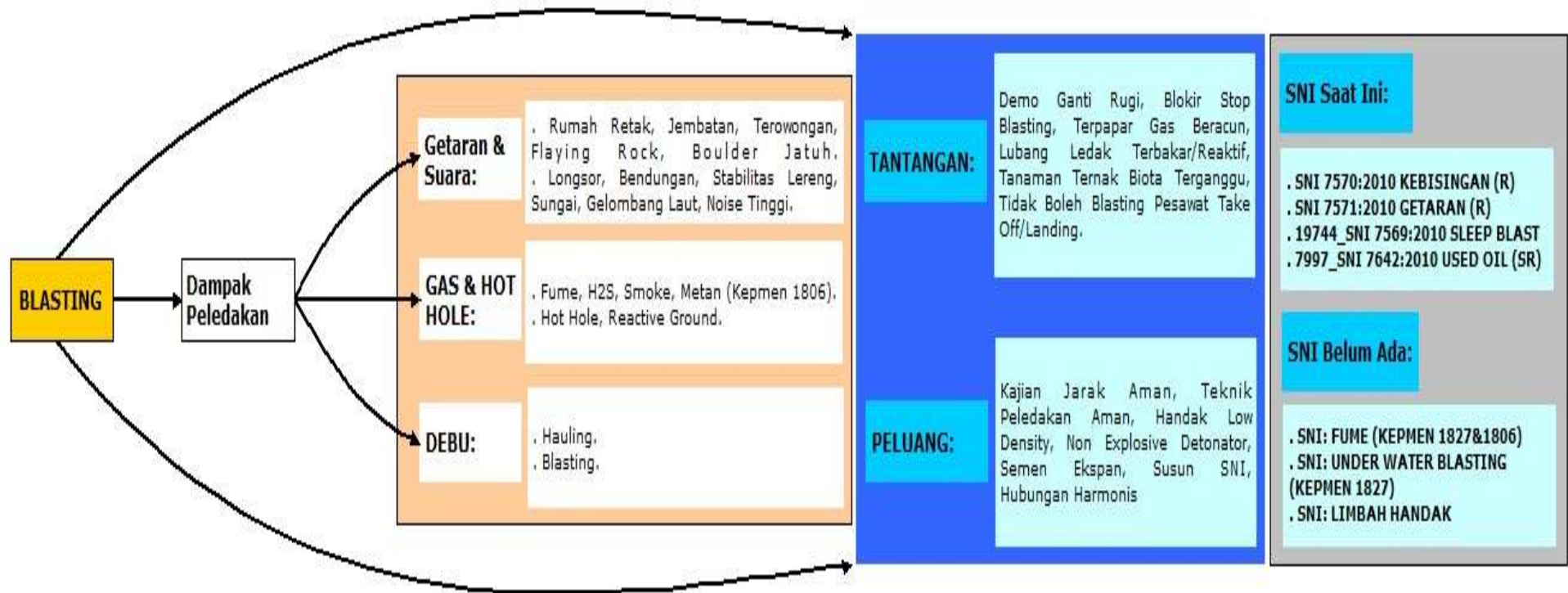




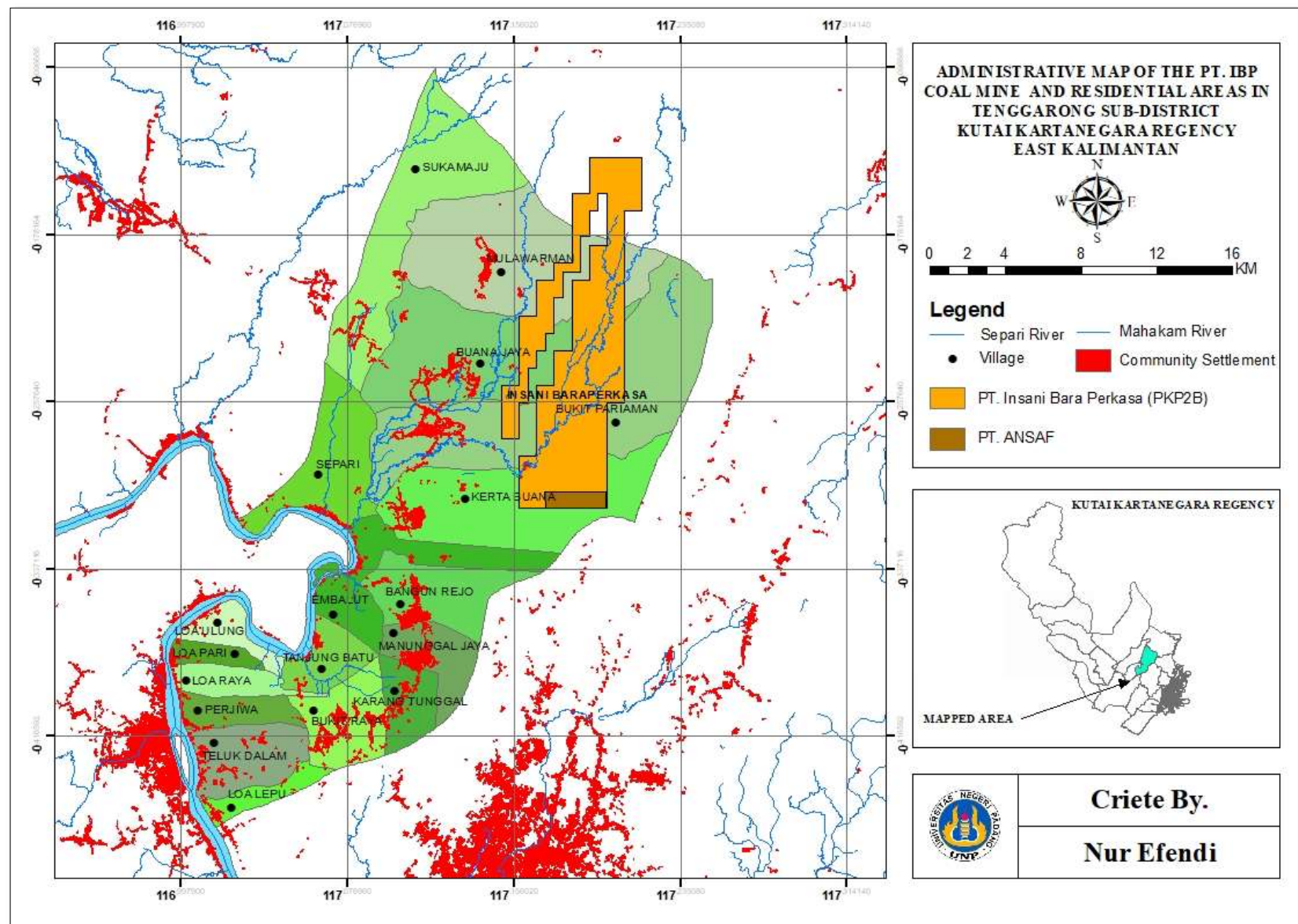
**Gambar 1.** Konsep Pengelolaan Berkelanjutan Di Lingkungan Pertambangan (dibuat: Nur Efendi, 2024).



**Gambar 2.** Roadmap Penelitian (dibuat: Nur Efendi, 2024).

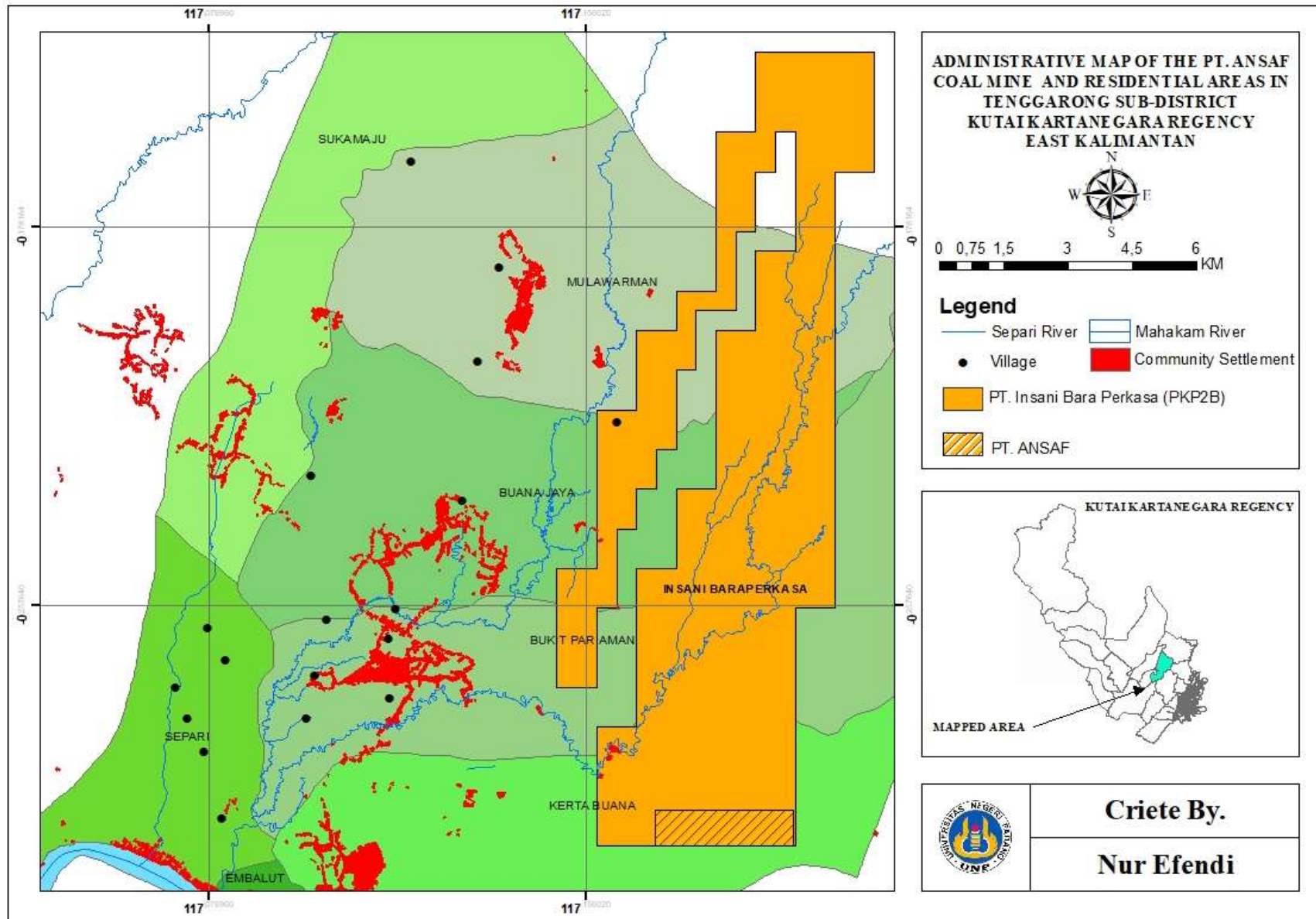


**Gambar 3.** Dampak Akibat Peledakan (dibuat: Nur Efendi, 2024).



**Gambar 4.** Peta Administrasi PT. INSANI BARAPERKASA (digambar: Nur Efendi, 2024).





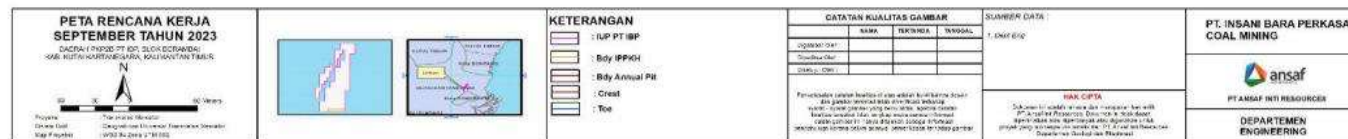
**Gambar 5.** Peta Administrasi PT. ANSAF (digambar: Nur Efendi, 2024).

## Radius Blasting □ Area Workshop dan Gudang Handak

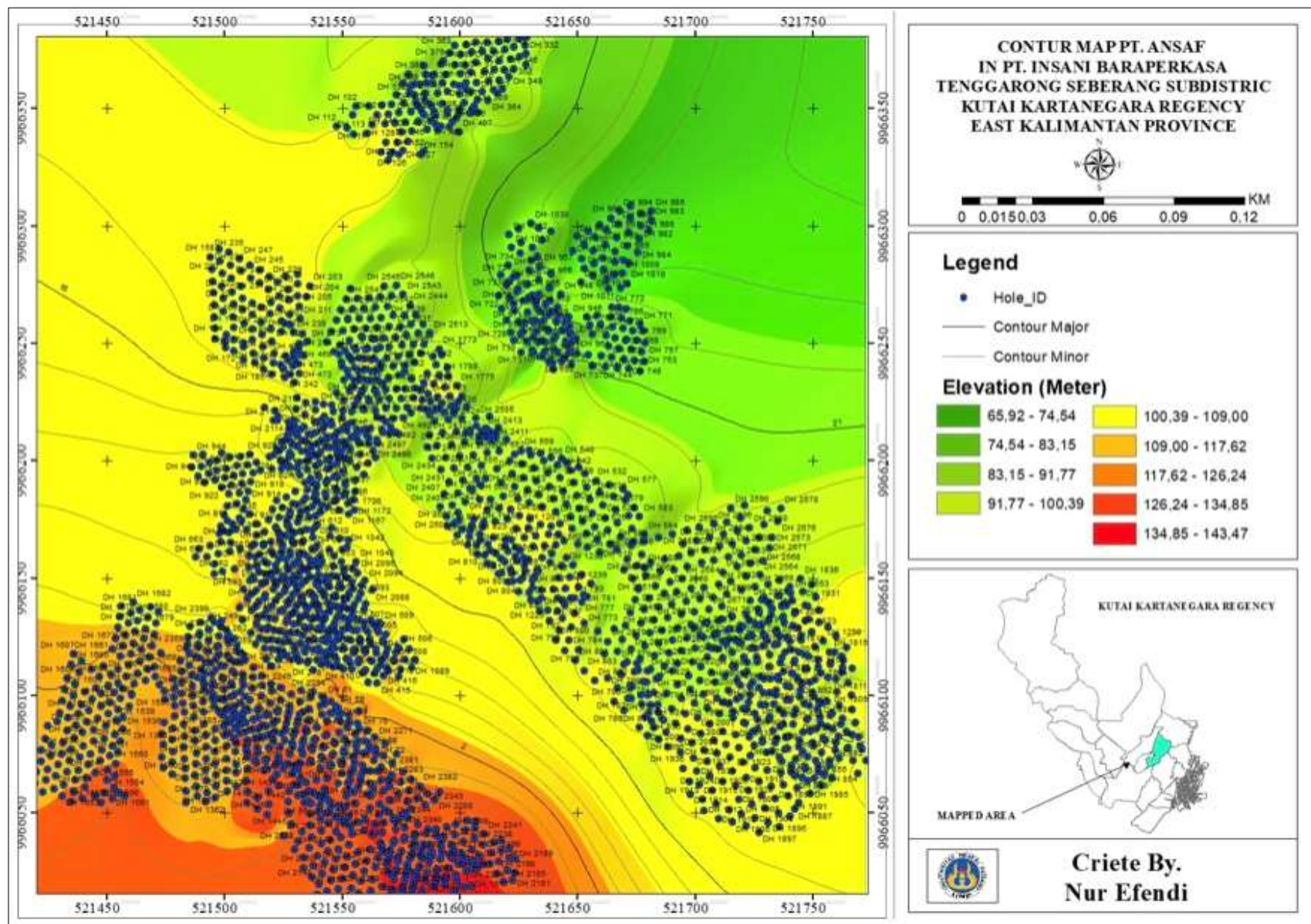


**Gambar 6.** Radius Blasting, Area Workshop dan Gudang Handak PT. ANSAF



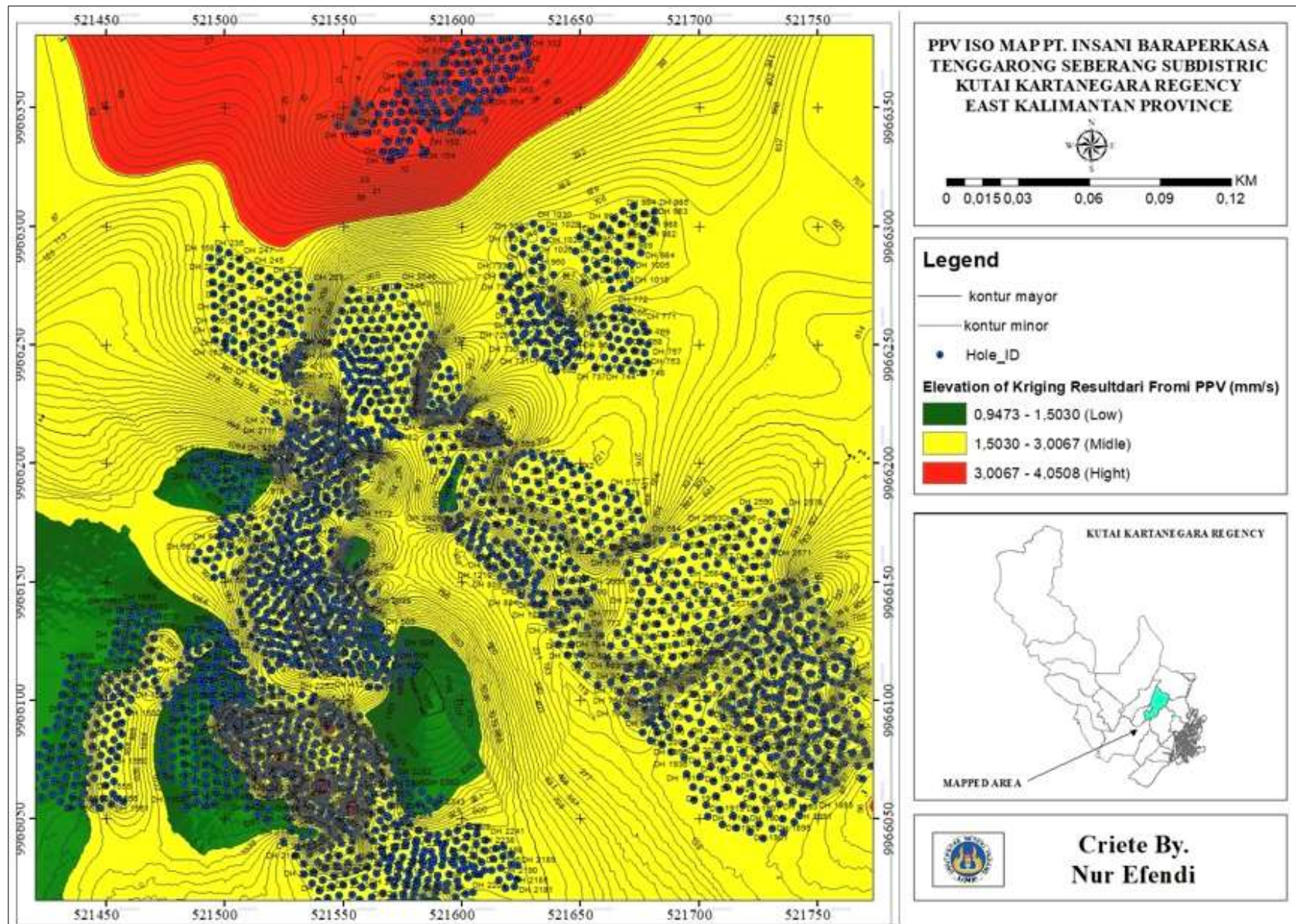


**Gambar 7.** Plan Area Blasting Bulan September 2023 PT. ANSAF



**Gambar 8.** Peta Kontur dan Titik Lubang Bor (dibuat: Nur Efendi, 2024).





**Gambar 9.** Peta PPV ISO MAP (dibuat: Nur Efendi, 2024).

## **JURNAL DAN KARYA TULIS BERDASARKAN ISI JUDUL DISERTASI**

1. **Q3, Model of environmental management due to coal mining on the Separi River in Tenggarong Seberang District, Kutai Kartanegara Regency, East Kalimantan Province.**

(Pra Lapangan, Published 1 Oktober 2024 sebagai penulis pertama).

2. **Q2, SUSTAINABILITY ASSESSMENT OF POST-MINING LAND USING MULTIDIMENSIONAL SCALING: INSIGHTS FROM THE INDONESIAN COAL MINING SECTOR.**

(Pasca Lapangan, Published 16 Februari 2025 sebagai penulis kedua).

3. **Q2, Mapping Blasting Vibration Distribution in Coal Mining Using Kriging Interpolation.**

(Lapangan, Published 27 Februari 2025 sebagai penulis pertama).

4. **Karya Ilmiah, PREDIKSI GETARAN PELEDAKAN PERTAMBANGAN BATUBARA MENGGUNAKAN GEOSTATISTIKA.**

<https://drive.google.com/file/d/1R31OMX3PVIQ7ESwSjbdo59q2ypsDqVTM/view?usp=sharing>

(Laporan, ISBN: 978-623-125-401-6 cetakan pertama September 2024).