

# Delivery Report Germany

EEA-FTSP-Sealing\_CountryDeliveryReport-DE

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## 1 INTRODUCTION

### 1.1 PURPOSE AND SCOPE

This document presents the country delivery report of EEA's Fast Track Service Precursor Sealing Product of Germany.

According to the Tender Specifications, this report corresponds to deliverable 5 (38 Country delivery reports).

### 1.2 APPLICABLE DOCUMENTS

ITD-0490-PRO-0006	Proposal responding to EEA's Invitation for Tender, Technical Offer including Management Part –Issue 1

### 1.3 REFERENCE DOCUMENTS

EEA/IDS/07/001	Tender Specifications "GMES Fast Track Service on Land Monitoring", EEA, 2006
ISO9001	ISO 9001: 2000 Standard
ITD-QMS-POL-0001_Infoterra_Quality_Policy	Quality Policy Statement
QMS-ITD-MA-0011_QMSManual_I3.1	Quality Management System (QMS) Manual
ITD-UMS-POL-0001_Infoterra_Environmental_Policy	Declaration of Enterprise Environmental Policy
ITD-QMS-STD-0001-ControlOfDocumentation	Control of Documentation and Data
QMS-ITD-ST-0001_CSM	Customer Satisfaction Measurement
QMS-ITD-PR-0003_PM_ProductDevelopment_I4	Project Management, Product (Prototype) Development and Production

## 2 DATA SPECIFICATIONS

### 2.1 TECHNICAL PRODUCT SPECIFICATION

<b>Content</b>
<i>Raster dataset of built-up and non built-up areas including continuous degree of soil sealing ranging from 0 - 100% in full spatial resolution (20 x 20 m) with the associated metadata.</i>
<b>Geographic coverage</b>
<i>Country of Germany (DE) – delivery comprises four files (Gauss-Krueger zones: GK2, GK3, GK4, GK5); Coverage [km<sup>2</sup>]: 357.030 (plus additional buffer of 200 meters outside of country border)</i>
<b>Input data sources</b>
<p><u>Input data provided by ESA:</u></p> <ul style="list-style-type: none"> <li>▪ <i>Orthorectified satellite data coverage for Europe (Image2006), acquired primarily in the reference year 2006 (+/- 1 year), covering two dates, used sensors SPOT 4 and 5 (HRVIR) and IRS-P6 LISS-III:</i> <ul style="list-style-type: none"> <li>• <i>20 m resampled (with cubic convolution interpolation)</i></li> <li>• <i>4 spectral bands</i></li> <li>• <i>Max. 5% cloud coverage</i></li> <li>• <i>Covering 2 dates, at least 6 weeks apart from the respect. scene selected for the first coverage</i></li> <li>• <i>Orthorectified towards national projection systems (used DTM unknown)</i></li> <li>• <i>Delivery on a country by country basis foreseen</i></li> <li>• <i>Metadata to each scene</i></li> </ul> </li> </ul> <p><u>Input data provided by EEA</u></p> <ul style="list-style-type: none"> <li>▪ <i>Dataset with national country borders (to be used for clipping the data at a national level) as defined and provided by the EEA</i></li> </ul> <p><u>Ancillary input data</u></p> <ul style="list-style-type: none"> <li>▪ <i>National Corine Land Cover 2000 data in vector format to be used for the stratification of the QA sample plots</i></li> </ul>
<b>Methodology</b>
<i>Supervised classification of built-up areas with following visual improvement of classification result and derivation of degree of soil sealing based on calibrated NDVI</i>
<b>Geometric resolution</b>
<i>Pixel resolution 20 x 20 m</i>

<b>Coordinate Reference System</b>
<i>Projection: Transverse Mercator - Gauss-Krueger Projection - Zones: 2 / 3 / 4 / 5</i>
<i>False Easting: n500000,00</i>
<i>False Northing: 0,00</i>
<i>Scale Factor: 1,00</i>
<i>Central Meridian: 6°00'00" / 9°00'00" / 12°00'00" / 15°00'00"</i>
<i>Latitude of Origin: 0°00'00"</i>
<i>Datum: Bessel 1841</i>
<b>Geometric accuracy (positioning scale)</b>
<i>According to orthorectified satellite image base delivered by ESA</i>
<b>Thematic accuracy (in %)</b>
<i>Classification accuracy per hectare (based on 100 x 100 m grid) of built-up non built-up areas is &gt; 85% (assessed according approach as described in chapter 4.1)</i>
<b>Accuracy assessment approach</b>
<i>Accuracy assessment based on random sample plots</i>
<b>Delivery format</b>
<i>IMAGINE Image (IMG)</i>
<b>Data type</b>
<i>Raster</i>
<b>Raster coding</b>
<i>Thematic pixel values</i> <i>0 – Non-built up areas, water bodies inland</i> <i>1-100 - sealing values for built-up areas</i> <i>254 – Unclassifiable areas (clouds, shadows, etc.)</i> <i>255 – No Data (No thematic information)</i>
<b>Metadata</b>
<i>According to EEA metadata standards (EEA MSGI specification)</i>
<b>Ancillary Data – Mitigation shape file</b>
<i>Metadata set per delivered country in vector format defining all areas which deviate from the ITT's EO data specifications (i.e. clouds, acquisition date). The vector layer is derived from image footprints and cloud cover information of Image2006 within the country border.</i>  <i>The attribute table contains information about WU identification and possible deviations from the standard specifications of Image2006:</i> <ul style="list-style-type: none"> <li><i>[Cntr] Country Code;</i></li> </ul>

- *[SCU] Number of Sub-Country unit containing the Working Unit;*
- *[WU\_ID] Full name of the Working Unit;*
- *[No\_acqu] Number of acquisitions within the WU; 0 = gap / no image available;*
- *[Out\_Veg] No of acquisition dates outside of country-specific vegetation period;*
- *[Below\_6w] Acquisition dates less than 6 weeks apart;*
- *[Cloud\_cov] Thematic value indicating the cloud coverage: No clouds = 1; Clouds present in coverage 1 = 2; Clouds present in Coverage 2 = 3; Clouds present in both coverages = 4*

## 2.2 ALGORITHMS USED

The aim of the image processing is to derive in a robust, reliable and reproducible way based on satellite images (Spot 4/5, IRS LISS) a raster dataset of built-up and non built-up areas including continuous degree of soil sealing ranging from 0 - 100% in full spatial resolution (20 x 20 m).

As the main challenge, the derivation of a continuous degree of soil sealing has to be solved. The proposed image processing approach is based on the fact that a reliable derivation of soil sealing degrees is not possible directly from the vegetation index. Low vegetation index values, which are characteristic for densely built-up areas are e.g. also found in bare soil areas of agricultural fields. Even when using multi-temporal satellite images with different acquisition dates in combination with bi-temporal, multi-spectral classification techniques the result may be improved, but the vegetation indices of two acquisitions are still too ambiguous.

Therefore, the proposed image processing approach will start with deriving a binary map of built-up areas and then further subdivide this area into 100 degrees of soil sealing, ranging from totally sealed surfaces (100% degree of soil sealing) up to built-up areas with extensive vegetation cover (1% degree of soil sealing). This allows the final user to aggregate the continuous values as required.

To be viable for this objective the classification methodology has to fulfil the following general criteria:

- Allow for local calibration of parameters used per working sub-area (as defined by satellite images) to overcome diversity of different regions in Europe and image immanent characteristics (such compensating for different settlement structures, ecozones, phonological and weather conditions).
- Deliver the required accuracy
- Maximise consistency and objectivity of the results all over Europe
- Maximise cost-efficiency under given constraints
- Maximise standardisation of production and working motivation of the analysts
- Secure realisation in due time.



Based on these criteria, the proposed methodological approach consists of the following main steps:

- a) Data preparation & management: Provision of spatial database of bi-temporal satellite images and derived working sub-areas ("Working Units" = WU) to be processed in the following steps
- b) Core processing, containing the 3 main processing steps:
  - (1) Hybrid automated classification with supervised and unsupervised elements, leading to binary maps of built-up area
  - (2) Manual correction of the binary built-up map to obtain the required quantitative thematic accuracy (85%) as well as good qualitative results
  - (3) Derivation of degree of soil sealing based on the NDVI (Normalised Difference Vegetation Index)
- c) Generation of sub-country / country data sets
- d) Accuracy assessment
- e) Re-projection & mosaicing, generation of seamless European dataset.

## 2.3 FORMAT DESCRIPTION

<b>Delivery format</b>
<i>ERDAS IMAGINE Image (IMG)</i>
<i>Data Type: unsigned 8-bit</i>
<i>Compression: Run-length encoding (ESRI)</i>
<i>Number of bands: 1</i>
<i>Pixel size: 20 m</i>
<b>Data type</b>
<i>Thematic Raster</i>
<b>Metadata</b>
<i>According to EEA metadata standards (EEA MSGI specification)</i>

## 2.4 METADATA

See European Environment Agency – Metadata Standard for Geographic Information (EEA-MSGI), Version 1.1a (18 August 2004).

The metadata is provided as XML-file and as PDF-document according to EEA Metadata Standard for Geographic Information (EEA-MSGI).

### 3 SUMMARY OF PRODUCTION

#### 3.1 TIMETABLE, PRODUCTION MILESTONES

Delivery by ESA	Data Reception	Data Preparation		Received by SP	Production	
		Start	End		Start	End
02.10.2007	10.10.2007	11.10.2007	12.11.2007	12.11.2007	14.01.2008	17.06.2008

#### 3.2 TECHNICAL PROBLEMS ENCOUNTERED, MITIGATION MEASURES

The following table shows the non-conformities to the ITT's specifications of the soil sealing product of Germany.

This statistic has been derived from the Mitigation Shape file which is delivered in complement to the country product.

##### Germany, Gauss-Krueger Zone 2

		% of total area
Total area of sealing layer (country area including a 200m Buffer)	50.530 km <sup>2</sup>	100,0%
Area with one acquisition date	4 km <sup>2</sup>	0,0%
Area without clouds	35.180 km <sup>2</sup>	69,6%
Area with clouds present in coverage 1	686 km <sup>2</sup>	1,4%
Area with clouds present in coverage 2	14.652 km <sup>2</sup>	29,0%
Area with clouds present in both coverages (no data)	12 km <sup>2</sup>	0,0%
Area with acquisition dates less than 6 weeks apart	14.392 km <sup>2</sup>	28,5%
Area with one acquisition dates outside of vegetation period	16.073 km <sup>2</sup>	31,8%
Area with two acquisition dates outside of vegetation period	0 km <sup>2</sup>	0,0%
Overall area which does not correspond to the ITT's specifications	37.897 km <sup>2</sup>	75,0%

##### Germany, Gauss-Krueger Zone 3

		% of total area
Total area of sealing layer (country area including a 200m Buffer)	148.647 km <sup>2</sup>	100,0%
Area with one acquisition date	0 km <sup>2</sup>	0,0%
Area without clouds	131.780 km <sup>2</sup>	88,7%
Area with clouds present in coverage 1	6.976 km <sup>2</sup>	4,7%
Area with clouds present in coverage 2	9.624 km <sup>2</sup>	6,5%
Area with clouds present in both coverages (no data)	268 km <sup>2</sup>	0,2%
Area with acquisition dates less than 6 weeks apart	415 km <sup>2</sup>	0,3%
Area with one acquisition dates outside of vegetation period	60.393 km <sup>2</sup>	40,6%
Area with two acquisition dates outside of vegetation period	343 km <sup>2</sup>	0,2%
Overall area which does not correspond to the ITT's specifications	66.569 km <sup>2</sup>	44,8%

#### Germany, Gauss-Krueger Zone 4

		% of total area
Total area of sealing layer (country area including a 200m Buffer)	141.139 km <sup>2</sup>	100,0%
Area with one acquisition date	0 km <sup>2</sup>	0,0%
Area without clouds	125.789 km <sup>2</sup>	89,1%
Area with clouds present in coverage 1	4.302 km <sup>2</sup>	3,0%
Area with clouds present in coverage 2	10.980 km <sup>2</sup>	7,8%
Area with clouds present in both coverages (no data)	69 km <sup>2</sup>	0,0%
Area with acquisition dates less than 6 weeks apart	697 km <sup>2</sup>	0,5%
Area with one acquisition dates outside of vegetation period	15.081 km <sup>2</sup>	10,7%
Area with two acquisition dates outside of vegetation period	0 km <sup>2</sup>	0,0%
Overall area which does not correspond to the ITT's specifications	26.974 km <sup>2</sup>	19,1%

#### Germany, Gauss-Krueger Zone 5

		% of whole area
Total area of sealing layer (country area including a 200m Buffer)	19.540 km <sup>2</sup>	100,0%
Area with one acquisition date	0 km <sup>2</sup>	0,0%
Area without clouds	19.420 km <sup>2</sup>	99,4%
Area with clouds present in coverage 1	21 km <sup>2</sup>	0,1%
Area with clouds present in coverage 2	98 km <sup>2</sup>	0,5%
Area with clouds present in both coverages (no data)	0 km <sup>2</sup>	0,0%
Area with acquisition dates less than 6 weeks apart	0 km <sup>2</sup>	0,0%
Area with one acquisition dates outside of vegetation period	4.762 km <sup>2</sup>	24,4%
Area with two acquisition dates outside of vegetation period	0 km <sup>2</sup>	0,0%
Overall area which does not correspond to the ITT's specifications	4.822 km <sup>2</sup>	24,7%

## 4 ACCURACY ASSESSMENT REPORT

### 4.1 DESCRIPTION OF APPROACH

The derivation of accuracy measures as agreed with EEA includes the following steps:

1. Definition of 100 x 100 m reference grid in national projection of the respective country as-  
sessed
2. Stratification of the area based on Corine Land Cover level I. To emphasize the accuracy as-  
sessment in the urban areas, 50 % of the sample plots are placed within CLC class Artificial  
Surfaces, the other 50 % are placed in the remaining classes.
3. Cluster based random sampling based on 100 x 100 m reference grid, defined per single na-  
tion, number of samples adapted to nation size in km<sup>2</sup>
4. Re-projection of reference samples to allow overlay with Google Earth
5. Estimation , if reference cell will be labelled as “built-up” according to EEA definition or not  
(80% threshold degree of soil sealing) taking into account the visibility of objects in the satel-  
lite images used for the production of the raster product (technically possible also when using  
Google Earth<sup>1</sup>)
6. Estimation of overall accuracy to generate accuracy measure (overall accuracy, user accu-  
racy, (commission error), producer accuracy (omission error), per single nation (for internal  
use & validation only) and for European dataset for publication by EEA.
7. Adaptation of statistics with regard to the mitigation shape file. All sample plots falling within  
areas of the raster product, where the underlying IMAGE2006 data has been identified to fail  
the ITT’s specifications, are not included in the final statistics. This includes areas where
  - Less than two coverages of EO data are available
  - One or more acquisition dates are outside the defined acquisition window
  - The acquisition dates of the two coverages used are less than six weeks apart
  - Cloud cover is present in one or more coverage

The built-up raster product which is subject to the accuracy assessment is accepted as according to the specifications if the final statistics indicate an overall accuracy of more than 85 %.

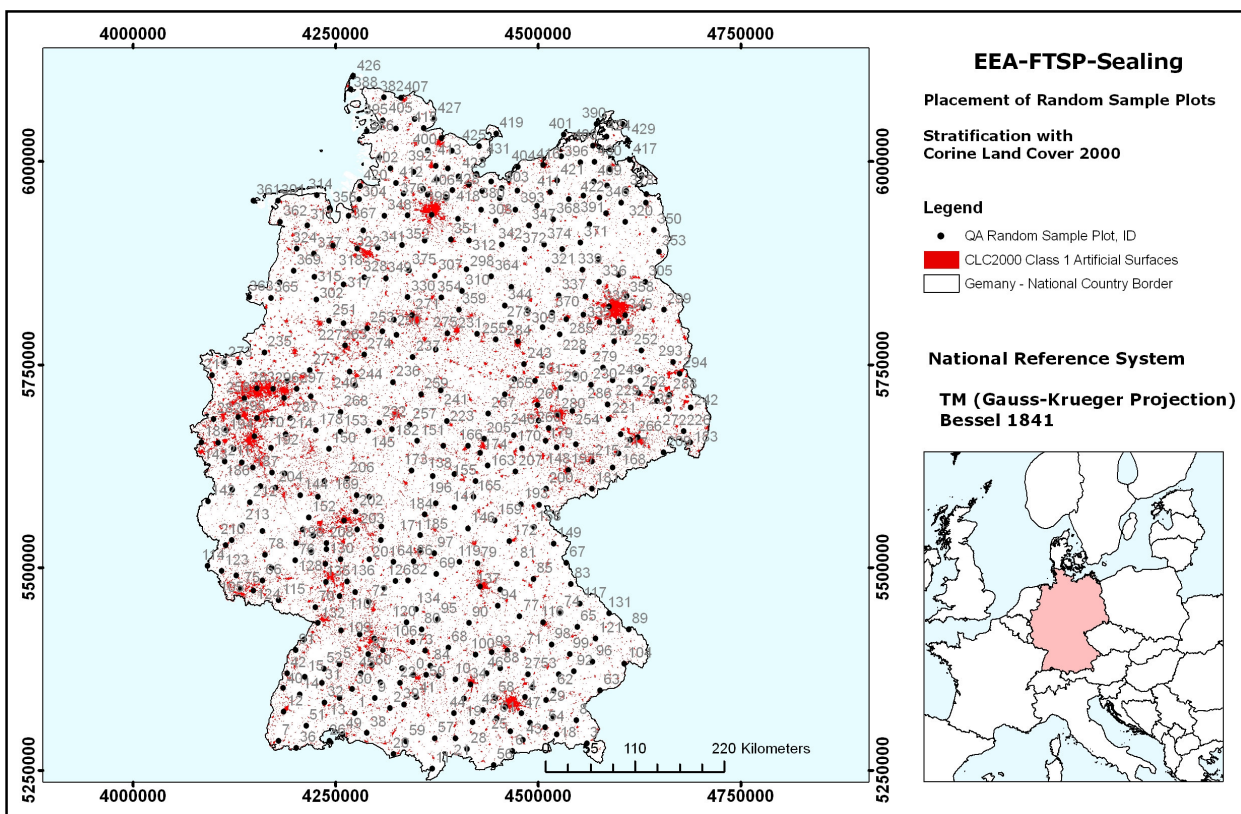
Accuracy assessment is performed per country product for internal quality control. For final accep-  
tance by EEA, the overall accuracy of the European product is arbitratative.

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<sup>1</sup> using web-based information input to a local server

## 4.2 SAMPLE PLACEMENT (STRATIFICATION, NUMBER & LOCATIONS OF SAMPLE SITES)

Overall number of sample plots: 432 (216 within CLC2000 Artificial Surfaces). The figure below shows the placement of sample plots (black dots) within CLC urban areas (red areas) and outside.



### 4.3 FINAL RESULT

The final accuracy assessment for the country product surpassed the threshold of an overall accuracy of 85 %.

	Classification			Producer's Accuracy	Omission Error
	>80%	<80%	$\Sigma$		
Validation	>80%	20	4	24	83,3%
	<80%	12	230	242	95,0%
	$\Sigma$	32	234	266	
	User's Accuracy	62,5%	98,3%		
	Commission Error	37,5%	1,7%		
	Overall Accuracy	94,0%			

## 5 DETAILED LIST OF PROVIDED DATA

- Raster dataset of built-up and non built-up areas including degree of soil sealing, 2006, in full spatial resolution (20 m x 20 m). The data set is delivered in four separated files according to different projection zones of the national reference system:
  - Transverse Mercator (Gauss-Krueger Projection) Zone 2
  - Transverse Mercator (Gauss-Krueger Projection) Zone 3
  - Transverse Mercator (Gauss-Krueger Projection) Zone 4
  - Transverse Mercator (Gauss-Krueger Projection) Zone 5
- ArcMap Legend File for raster data set for plotting a degree of soil sealing, aggregated to thematic classes
- ArcMap Legend File for raster data set for plotting a degree of soil sealing in a range from 1-100 %
- Mitigation shape file; metadata set per delivered country defining all areas which deviate from the ITT's EO data specifications. The shapes are also divided according to the different projection zones of the national reference system (GK Zone 2/ 3/ 4/ 5)
- XML-Metadata of raster and vector data after EEA specifications
- EEA Metadata Stylesheet
- Report per Country with description of raster and vector data, country specific production & mitigation issues (the document at hand)
- Product inspection sheet for outgoing deliveries, ensuring product conformity of raster dataset
- National country borders in national projection zones



## **ANNEX 1: INTERPRETATION GUIDELINE FOR VISUAL CORRECTION**

### **Objective**

To produce a pixel-based high-resolution layer of built-up areas including degree of soil sealing for the EEA member states of homogeneous look & feel with an overall thematic accuracy of 85%.

### **Definition of Built-up Areas**

Built-up areas according to the consortium definition are represented by a degree of soil sealing between 1 and 100%.

Built-up area therefore comprises pixels that are fully or partly covered by houses, roads, mines and quarries and any other facilities, including their auxiliary spaces, deliberately installed for the pursuit of human activities. Built-up area does not include any fully vegetated pixels, even if they are closely related to these activities (such as city parks and gardens), or any other unvegetated non-built-up open spaces covered with bare soil, sand, glacier, bare rocks or water.

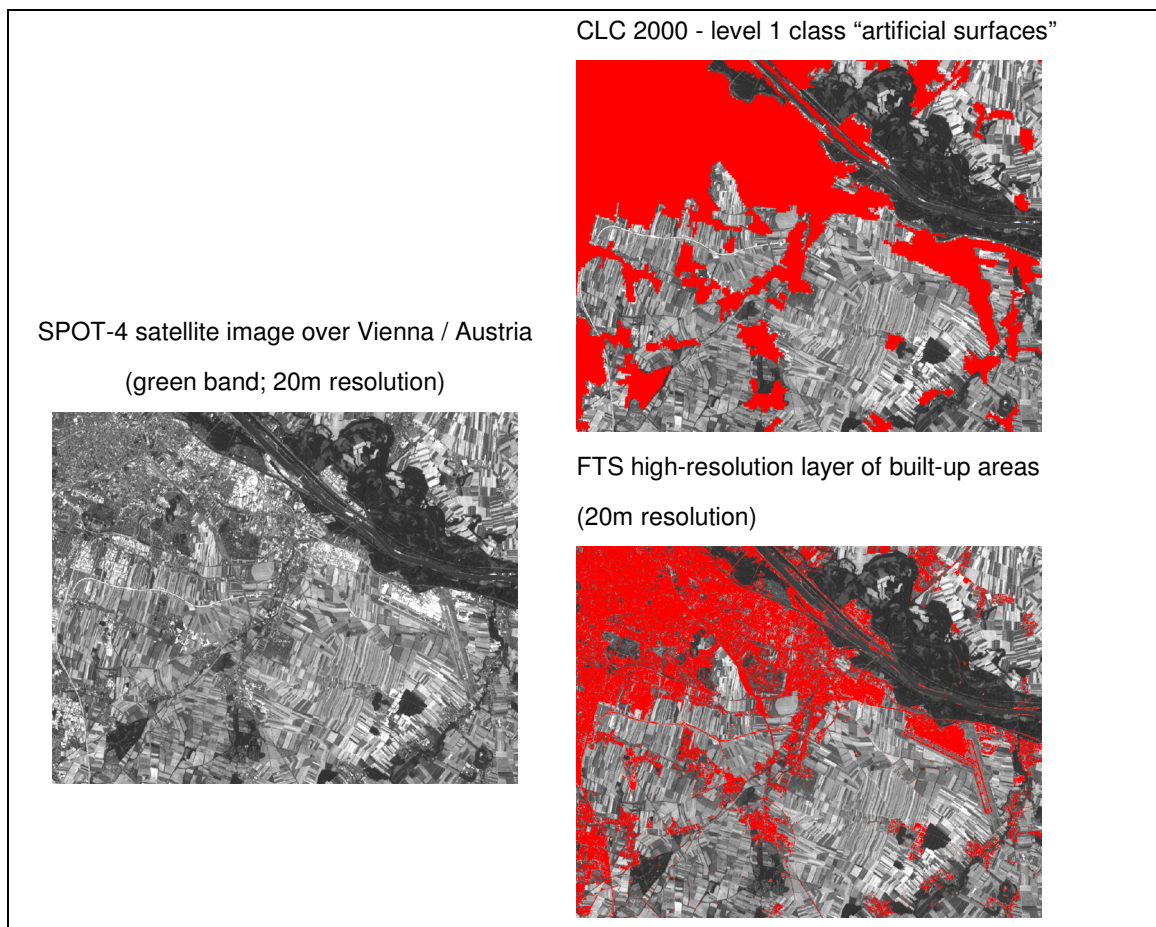
(modified according to [http://glossary.eea.europa.eu/EEAGlossary/B/built\\_up\\_land](http://glossary.eea.europa.eu/EEAGlossary/B/built_up_land))

### **The FTS in Relation to Corine Land Cover**

The FTS high resolution core land cover data is a complementary element of the GMES Fast Track Services. The data set will be a land cover product, reflecting actual ground cover on a pixel by pixel level rather than functional properties.

CLC level 1 class 'artificial surfaces' contains artificial surfaces and functionally related vegetated areas, reflecting the land use aspect. Therefore a significant part of this CLC level 1 class contains vegetated areas composed of fully vegetated pixels. However, in the FTS product only pixels that contain some built-up/sealed area will be included.

In addition, built-up pixels within all other CLC level 1 classes (which are not mapped in CLC according to the 25ha MMU) will be included according to the above definition. Fully vegetated or unvegetated non-built-up pixels will be excluded.



### Special Considerations

- The same definition of built-up areas shall apply for production and quality control.
- To ensure homogeneity across the whole of Europe, partially captured linear features outside of urban agglomerations (e.g. fragments of roads or railway lines) will not be completed by the manual post editing.
- Mines and quarries will be considered built-up areas according to the above definition.
- It is proposed to include a no-data class for unclassifiable areas (e.g., clouds) which is to be marked and identified during the process of manual interpretation.

## ANNEX 2: LIST OF WORKING UNITS AND EO DATA USED

The following list provides information about the two coverages of EO data which were used to create the working units. The file name is identical to the WU identification within the mitigation shapefile's attribute table and contains the specifications of sensors, paths/rows and capture dates.

The full file name is explained in the following:

[Sensor Coverage 1]\_[TrackFrame Coverage 1]\_[Capture Date YY/MM/DD Coverage 1]\_[Instrument Coverage 1]\_  
[Sensor Coverage 2]\_[TrackFrame Coverage 2]\_[Capture Date YY/MM/DD Coverage 2]\_[Instrument Coverage 2]

**Table 1: List of Working Units used for the production of Germany**

GK Zone	SCU	Working Unit
2	1	irsp6_021029_070312_I30_irsp6_021030_060715_I30
2	1	irsp6_021030_060715_I30_irsp6_021030_070312_I30
2	1	irsp6_021030_070312_I30_irsp6_021031_060715_I30
2	1	irsp6_021031_060715_I30_irsp6_021031_070312_I30
2	1	irsp6_021031_070312_I30_irsp6_021032_060715_I30
2	1	irsp6_021032_070312_I30_irsp6_021032_060715_I30
2	1	irsp6_022031_050818_I30_irsp6_022032_060720_I30
2	1	irsp6_022031_050818_I30_spot5_046245_060713_2j0
2	1	irsp6_022032_060720_I30
2	1	irsp6_022032_060720_I30_irsp6_023033_050401_I30
2	1	irsp6_022032_060720_I30_spot4_047248_051028_1i0
2	1	irsp6_022033_060720_I30_irsp6_023033_050401_I30
2	1	irsp6_022033_060720_I30_irsp6_023034_050401_I30
2	1	irsp6_022033_060720_I30_spot4_047248_051028_1i0
2	1	irsp6_022033_060720_I30_spot4_047249_061224_2i0
2	1	irsp6_023033_050401_I30_irsp6_023033_060701_I30
2	1	irsp6_023033_050401_I30_spot4_049250_060905_1i0
2	1	irsp6_023034_050401_I30_spot4_049250_060905_1i0
2	1	irsp6_023034_050401_I30_spot4_049251_060720_2i0
2	1	irsp6_024035_060730_I30_spot4_051254_061107_1i0
2	1	ispot5_048247_060714_1j0_irsp6_022032_060720_I30
3	2	irsp6_024032_070327_I30_irsp6_025033_050318_I30
3	2	irsp6_024032_070327_I30_spot4_053247_051028_2i0
3	2	irsp6_024032_070327_I30_spot5_052247_050901_2j6
3	2	irsp6_024033_050828_I30_irsp6_024033_070327_I30
3	2	irsp6_024033_070327_I30_irsp6_025033_050318_I30
3	2	irsp6_024034_060730_I30_irsp6_024034_070327_I30
3	2	irsp6_025033_050318_I30_spot5_052248_050901_2j6
3	2	irsp6_025034_050318_I30_irsp6_025034_050716_I30
3	2	irsp6_025034_050318_I30_irsp6_026034_050907_I30

GK Zone	SCU	Working Unit
3	2	irsp6_025035_050318_I30_ irsp6_025035_060711_I30
3	2	irsp6_025035_050318_I30_ spot4_051253_051029_1i0
3	2	irsp6_026034_050907_I30_ irsp6_026034_070406_I30
3	2	irsp6_026034_070406_I30_ spot4_057253_061220_1i0
3	2	irsp6_026035_050907_I30_ irsp6_026035_070406_I30
3	2	spot4_051253_051029_1i0_ spot5_051253_060715_1j0
3	2	spot5_050248_060715_2j0_ spot5_051248_050831_2j0
3	2	spot5_054247_060719_1j0_ spot4_053247_051028_2i0
3	2	spot5_054248_051028_1j0_ spot5_054248_060909_2j0
3	2	spot5_054249_060909_2j0_ irsp6_025033_050318_I30
3	2	spot5_054250_060909_2j0_ irsp6_025033_050318_I30
3	3	irsp6_021028_060715_I30_ irsp6_021028_070312_I30
3	3	irsp6_021028_070312_I30_ irsp6_021029_060715_I30
3	3	irsp6_021029_060715_I30_ irsp6_022029_050818_I30
3	3	irsp6_022029_050818_I30_ irsp6_023029_050401_I30
3	3	irsp6_023029_050401_I30_ spot5_049239_060719_2j6
3	3	irsp6_023029_050401_I30_ spot5_050240_060704_2j0
3	3	irsp6_023030_050401_I30_ irsp6_023030_060701_I30
3	3	irsp6_023030_060701_I30_ irsp6_024030_070327_I30
3	3	irsp6_023031_050401_I30_ irsp6_023031_060701_I30
3	3	irsp6_023031_060701_I30_ irsp6_024031_070327_I30
3	3	irsp6_023032_050401_I30_ irsp6_023032_060701_I30
3	3	irsp6_023032_060701_I30_ irsp6_024032_070327_I30
3	3	irsp6_024030_070327_L30_ irsp6_025031_060711_L30
3	3	irsp6_024030_070327_I30_ spot4_050241_060705_2i0
3	3	irsp6_024030_070327_I30_ spot5_049240_060719_2j6
3	3	irsp6_024031_070327_L30_ irsp6_025031_060711_L30
3	3	irsp6_024031_070327_I30_ spot4_053245_060910_1i1
3	3	irsp6_024032_070327_I30_ spot4_053245_070805_1i6
3	3	irsp6_024032_070327_I30_ spot5_052246_050901_2j6
3	3	irsp6_025030_060711_L30_ irsp6_024030_070327_L30
3	3	spot4_053246_060510_2i0_ spot5_053246_060720_2j0
4	4	irsp6_027033_050819_I30_ irsp6_027034_060907_I30
4	4	irsp6_027034_060907_I30_ irsp6_028034_070416_I30
4	4	irsp6_027034_060907_I30_ spot4_057252_060615_1i0
4	4	irsp6_027035_060907_I30_ irsp6_027035_070411_I30
4	4	irsp6_028033_060819_I30_ irsp6_028033_070416_I30
4	4	irsp6_028033_070416_I30_ irsp6_028034_060702_I30
4	4	irsp6_028034_060702_I30_ irsp6_028034_070416_I30
4	4	irsp6_028034_070416_I30_ irsp6_028035_060702_I30
4	4	irsp6_028035_060702_I30_ irsp6_029035_051109_I30
4	4	irsp6_029034_050829_I30_ irsp6_029034_070328_I30
4	4	irsp6_029035_051109_I30_ spot4_062253_060901_1i0
4	4	irsp6_029035_051109_I30_ spot4_062254_060901_1i0

GK Zone	SCU	Working Unit
4	4	spot5_058252_060720_1j7_irs6_027034_060907_l30
4	4	spot5_058252_060720_1j7_spot5_059253_060504_1j0
4	4	spot5_059252_060504_1j0_irs6_027034_060907_l30
4	5	irs6_026032_050907_l30_irs6_026032_060505_l30
4	5	irs6_026033_050907_l30_irs6_026033_070406_l30
4	5	irs6_027032_060510_l30_irs6_027032_060907_l30
4	5	irs6_027032_060510_l30_irs6_028032_060819_l30
4	5	irs6_027033_060510_l30_irs6_027033_060907_l30
4	5	irs6_028031_070416_l30_irs6_028032_060819_l30
4	5	irs6_028032_060819_l30_irs6_028032_070416_l30
4	5	irs6_028032_070416_l30_irs6_028033_060819_l30
4	6	irs6_024029_060706_l30_irs6_024029_070327_l30
4	6	irs6_025031_060711_l30_irs6_026031_050907_l30
4	6	irs6_026029_050907_l30_irs6_026029_060505_l30
4	6	irs6_026030_050907_l30_irs6_026030_060505_l30
4	6	irs6_026031_050907_l30_irs6_026031_060505_l30
4	6	irs6_027031_060510_l30_irs6_027031_060907_l30
5	7	irs6_028029_070416_l30_irs6_028029_060726_l30
5	7	irs6_028030_060726_l30_irs6_028029_070416_l30
5	7	irs6_028030_070416_l30_irs6_028030_060726_l30
5	7	irs6_028031_060726_l30_irs6_028030_070416_l30
5	7	irs6_029031_070328_l30_irs6_028031_060726_l30
5	7	irs6_029032_050829_l30_irs6_029031_070328_l30
5	7	spot4_062245_060722_2i2_irs6_029031_070328_l30

### ANNEX 3: SAMPLE PLOT VALIDATION SHEET

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape [TRUE / FALSE]
0	0,0	FALSE	FALSE	TRUE	FALSE
1	3,6	FALSE	FALSE	TRUE	FALSE
2	0,0	FALSE	FALSE	TRUE	FALSE
3	0,0	FALSE	FALSE	TRUE	TRUE
4	0,0	FALSE	FALSE	TRUE	FALSE
5	0,0	FALSE	FALSE	TRUE	TRUE
6	0,0	FALSE	FALSE	TRUE	FALSE
7	0,0	FALSE	FALSE	TRUE	TRUE
8	0,0	FALSE	FALSE	TRUE	FALSE
9	1,5	FALSE	FALSE	TRUE	FALSE
10	0,0	FALSE	FALSE	TRUE	FALSE
11	35,8	FALSE	FALSE	TRUE	FALSE
12	0,0	FALSE	FALSE	TRUE	TRUE
13	0,0	FALSE	FALSE	TRUE	TRUE
14	0,0	FALSE	FALSE	TRUE	TRUE
15	0,0	FALSE	FALSE	TRUE	TRUE
16	0,0	FALSE	FALSE	TRUE	FALSE
17	0,0	FALSE	FALSE	TRUE	FALSE
18	0,0	FALSE	FALSE	TRUE	FALSE
19	20,0	FALSE	FALSE	TRUE	FALSE
20	0,0	FALSE	FALSE	TRUE	FALSE
21	0,0	FALSE	FALSE	TRUE	FALSE
22	0,0	FALSE	FALSE	TRUE	FALSE
23	0,0	FALSE	FALSE	TRUE	FALSE
24	0,0	FALSE	FALSE	TRUE	FALSE
25	33,8	FALSE	FALSE	TRUE	FALSE
26	0,0	FALSE	FALSE	TRUE	TRUE
27	0,8	FALSE	FALSE	TRUE	FALSE
28	0,0	FALSE	FALSE	TRUE	FALSE
29	0,0	FALSE	FALSE	TRUE	FALSE
30	0,0	FALSE	FALSE	TRUE	TRUE
31	0,0	FALSE	FALSE	TRUE	TRUE
32	77,6	FALSE	FALSE	TRUE	TRUE
33	76,6	FALSE	FALSE	TRUE	FALSE
34	62,8	FALSE	FALSE	TRUE	FALSE
35	92,5	TRUE	TRUE	TRUE	FALSE
36	63,7	FALSE	FALSE	TRUE	TRUE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape  [TRUE / FALSE]
37	22,4	FALSE	FALSE	TRUE	TRUE
38	80,6	TRUE	FALSE	FALSE	FALSE
39	96,3	TRUE	TRUE	TRUE	FALSE
40	74,7	FALSE	FALSE	TRUE	TRUE
41	24,8	FALSE	FALSE	TRUE	FALSE
42	48,3	FALSE	FALSE	TRUE	TRUE
43	16,4	FALSE	FALSE	TRUE	FALSE
44	62,9	FALSE	FALSE	TRUE	FALSE
45	57,4	FALSE	FALSE	TRUE	FALSE
46	76,1	FALSE	FALSE	TRUE	FALSE
47	70,1	FALSE	FALSE	TRUE	FALSE
48	56,6	FALSE	FALSE	TRUE	FALSE
49	35,4	FALSE	FALSE	TRUE	FALSE
50	61,2	FALSE	FALSE	TRUE	FALSE
51	56,7	FALSE	FALSE	TRUE	TRUE
52	34,3	FALSE	FALSE	TRUE	TRUE
53	77,9	FALSE	FALSE	TRUE	TRUE
54	96,6	TRUE	FALSE	FALSE	FALSE
55	100,0	TRUE	TRUE	TRUE	FALSE
56	29,4	FALSE	FALSE	TRUE	FALSE
57	15,8	FALSE	FALSE	TRUE	FALSE
58	13,3	FALSE	FALSE	TRUE	FALSE
59	95,4	TRUE	TRUE	TRUE	FALSE
60	57,3	FALSE	FALSE	TRUE	FALSE
61	0,0	FALSE	FALSE	TRUE	FALSE
62	16,2	FALSE	FALSE	TRUE	TRUE
63	98,7	TRUE	TRUE	TRUE	TRUE
64	0,0	FALSE	FALSE	TRUE	TRUE
65	0,0	FALSE	FALSE	TRUE	TRUE
66	0,0	FALSE	FALSE	TRUE	TRUE
67	0,0	FALSE	FALSE	TRUE	FALSE
68	0,0	FALSE	FALSE	TRUE	FALSE
69	0,0	FALSE	FALSE	TRUE	FALSE
70	0,0	FALSE	FALSE	TRUE	TRUE
71	0,0	FALSE	FALSE	TRUE	FALSE
72	0,0	FALSE	FALSE	TRUE	TRUE
73	0,0	FALSE	FALSE	TRUE	FALSE
74	0,0	FALSE	FALSE	TRUE	FALSE
75	2,6	FALSE	FALSE	TRUE	FALSE



Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape  [TRUE / FALSE]
76	0,0	FALSE	FALSE	TRUE	TRUE
77	0,0	FALSE	FALSE	TRUE	FALSE
78	0,0	FALSE	FALSE	TRUE	TRUE
79	0,0	FALSE	FALSE	TRUE	FALSE
80	0,0	FALSE	FALSE	TRUE	FALSE
81	0,0	FALSE	FALSE	TRUE	FALSE
82	0,0	FALSE	FALSE	TRUE	TRUE
83	0,0	FALSE	FALSE	TRUE	FALSE
84	0,0	FALSE	FALSE	TRUE	FALSE
85	0,0	FALSE	FALSE	TRUE	FALSE
86	0,0	FALSE	FALSE	TRUE	TRUE
87	0,0	FALSE	FALSE	TRUE	FALSE
88	0,0	FALSE	FALSE	TRUE	FALSE
89	0,0	FALSE	FALSE	TRUE	TRUE
90	0,0	FALSE	FALSE	TRUE	FALSE
91	0,0	FALSE	FALSE	TRUE	TRUE
92	0,0	FALSE	FALSE	TRUE	TRUE
93	6,8	FALSE	FALSE	TRUE	FALSE
94	0,0	FALSE	FALSE	TRUE	TRUE
95	0,0	FALSE	FALSE	TRUE	FALSE
96	0,7	FALSE	FALSE	TRUE	TRUE
97	0,0	FALSE	FALSE	TRUE	TRUE
98	0,0	FALSE	FALSE	TRUE	FALSE
99	0,0	FALSE	FALSE	TRUE	TRUE
100	0,0	FALSE	FALSE	TRUE	FALSE
101	64,8	FALSE	FALSE	TRUE	FALSE
102	100,0	TRUE	TRUE	TRUE	TRUE
103	0,0	FALSE	FALSE	TRUE	TRUE
104	0,8	FALSE	FALSE	TRUE	TRUE
105	44,2	FALSE	FALSE	TRUE	FALSE
106	61,2	FALSE	FALSE	TRUE	FALSE
107	52,9	FALSE	FALSE	TRUE	TRUE
108	65,9	FALSE	FALSE	TRUE	TRUE
109	85,0	TRUE	FALSE	FALSE	FALSE
110	93,8	TRUE	FALSE	FALSE	TRUE
111	96,9	TRUE	TRUE	TRUE	FALSE
112	11,2	FALSE	FALSE	TRUE	TRUE
113	49,9	FALSE	FALSE	TRUE	TRUE
114	92,2	TRUE	TRUE	TRUE	FALSE



Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape  [TRUE / FALSE]
115	64,5	FALSE	FALSE	TRUE	TRUE
116	2,5	FALSE	FALSE	TRUE	FALSE
117	38,4	FALSE	FALSE	TRUE	TRUE
118	0,0	FALSE	FALSE	TRUE	TRUE
119	96,4	TRUE	TRUE	TRUE	FALSE
120	72,8	FALSE	FALSE	TRUE	FALSE
121	70,3	FALSE	FALSE	TRUE	TRUE
122	0,0	FALSE	FALSE	TRUE	FALSE
123	81,8	TRUE	FALSE	FALSE	FALSE
124	9,4	FALSE	FALSE	TRUE	TRUE
125	42,5	FALSE	FALSE	TRUE	FALSE
126	19,2	FALSE	FALSE	TRUE	TRUE
127	50,2	FALSE	FALSE	TRUE	FALSE
128	71,0	FALSE	FALSE	TRUE	TRUE
129	0,0	FALSE	FALSE	TRUE	TRUE
130	65,9	FALSE	TRUE	FALSE	FALSE
131	24,3	FALSE	FALSE	TRUE	TRUE
132	26,3	FALSE	FALSE	TRUE	TRUE
133	55,9	FALSE	FALSE	TRUE	TRUE
134	47,0	FALSE	FALSE	TRUE	FALSE
135	63,3	FALSE	FALSE	TRUE	TRUE
136	43,4	FALSE	FALSE	TRUE	TRUE
137	76,0	FALSE	FALSE	TRUE	TRUE
138	0,0	FALSE	FALSE	TRUE	FALSE
139	0,0	FALSE	FALSE	TRUE	TRUE
140	0,0	FALSE	FALSE	TRUE	FALSE
141	0,0	FALSE	FALSE	TRUE	FALSE
142	0,0	FALSE	FALSE	TRUE	TRUE
143	0,0	FALSE	FALSE	TRUE	TRUE
144	0,0	FALSE	FALSE	TRUE	FALSE
145	0,0	FALSE	FALSE	TRUE	FALSE
146	0,0	FALSE	FALSE	TRUE	FALSE
147	0,0	FALSE	FALSE	TRUE	TRUE
148	0,0	FALSE	FALSE	TRUE	TRUE
149	0,0	FALSE	FALSE	TRUE	FALSE
150	0,0	FALSE	FALSE	TRUE	FALSE
151	0,0	FALSE	FALSE	TRUE	TRUE
152	0,0	FALSE	FALSE	TRUE	FALSE
153	0,0	FALSE	FALSE	TRUE	FALSE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape  [TRUE / FALSE]
154	0,0	FALSE	FALSE	TRUE	FALSE
155	0,0	FALSE	FALSE	TRUE	FALSE
156	0,0	FALSE	FALSE	TRUE	FALSE
157	0,0	FALSE	FALSE	TRUE	FALSE
158	0,0	FALSE	FALSE	TRUE	FALSE
159	0,0	FALSE	FALSE	TRUE	FALSE
160	254,0	NO DATA	FALSE	FALSE	TRUE
161	0,0	FALSE	FALSE	TRUE	FALSE
162	0,0	FALSE	FALSE	TRUE	FALSE
163	0,0	FALSE	FALSE	TRUE	FALSE
164	0,0	FALSE	FALSE	TRUE	FALSE
165	0,0	FALSE	FALSE	TRUE	TRUE
166	0,0	FALSE	FALSE	TRUE	FALSE
167	0,0	FALSE	FALSE	TRUE	TRUE
168	0,0	FALSE	FALSE	TRUE	FALSE
169	0,0	FALSE	FALSE	TRUE	TRUE
170	0,0	FALSE	FALSE	TRUE	FALSE
171	0,0	FALSE	FALSE	TRUE	FALSE
172	6,2	FALSE	FALSE	TRUE	FALSE
173	0,0	FALSE	FALSE	TRUE	TRUE
174	0,0	FALSE	FALSE	TRUE	FALSE
175	0,0	FALSE	FALSE	TRUE	FALSE
176	0,0	FALSE	FALSE	TRUE	FALSE
177	5,4	FALSE	FALSE	TRUE	TRUE
178	56,7	FALSE	FALSE	TRUE	FALSE
179	69,2	FALSE	FALSE	TRUE	FALSE
180	126,0	NO DATA	FALSE	FALSE	TRUE
181	86,2	TRUE	TRUE	TRUE	FALSE
182	22,0	FALSE	FALSE	TRUE	TRUE
183	36,0	FALSE	FALSE	TRUE	TRUE
184	76,6	FALSE	FALSE	TRUE	FALSE
185	40,9	FALSE	FALSE	TRUE	TRUE
186	75,5	FALSE	TRUE	FALSE	FALSE
187	88,8	TRUE	TRUE	TRUE	FALSE
188	93,2	TRUE	TRUE	TRUE	TRUE
189	100,0	TRUE	TRUE	TRUE	TRUE
190	55,7	FALSE	FALSE	TRUE	TRUE
191	27,8	FALSE	FALSE	TRUE	FALSE
192	51,4	FALSE	FALSE	TRUE	TRUE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape  [TRUE / FALSE]
193	36,3	FALSE	FALSE	TRUE	FALSE
194	100,0	TRUE	FALSE	FALSE	TRUE
195	30,4	FALSE	FALSE	TRUE	FALSE
196	45,2	FALSE	FALSE	TRUE	FALSE
197	0,0	FALSE	FALSE	TRUE	FALSE
198	44,2	FALSE	FALSE	TRUE	TRUE
199	0,0	FALSE	FALSE	TRUE	FALSE
200	43,8	FALSE	FALSE	TRUE	FALSE
201	35,1	FALSE	FALSE	TRUE	TRUE
202	35,9	FALSE	FALSE	TRUE	TRUE
203	84,4	TRUE	FALSE	FALSE	TRUE
204	100,0	TRUE	TRUE	TRUE	FALSE
205	53,4	FALSE	FALSE	TRUE	FALSE
206	83,2	TRUE	FALSE	FALSE	FALSE
207	30,0	FALSE	FALSE	TRUE	FALSE
208	83,8	TRUE	FALSE	FALSE	FALSE
209	35,8	FALSE	FALSE	TRUE	FALSE
210	36,6	FALSE	FALSE	TRUE	FALSE
211	91,3	TRUE	FALSE	FALSE	TRUE
212	6,0	FALSE	FALSE	TRUE	FALSE
213	87,9	TRUE	TRUE	TRUE	FALSE
214	17,9	FALSE	FALSE	TRUE	TRUE
215	35,8	FALSE	FALSE	TRUE	FALSE
216	0,0	FALSE	FALSE	TRUE	TRUE
217	0,0	FALSE	FALSE	TRUE	FALSE
218	0,0	FALSE	FALSE	TRUE	FALSE
219	0,0	FALSE	FALSE	TRUE	TRUE
220	0,0	FALSE	FALSE	TRUE	FALSE
221	0,0	FALSE	FALSE	TRUE	FALSE
222	0,0	FALSE	FALSE	TRUE	FALSE
223	0,0	FALSE	FALSE	TRUE	FALSE
224	0,0	FALSE	FALSE	TRUE	TRUE
225	0,0	FALSE	FALSE	TRUE	FALSE
226	0,0	FALSE	FALSE	TRUE	TRUE
227	0,0	FALSE	FALSE	TRUE	FALSE
228	0,0	FALSE	FALSE	TRUE	FALSE
229	0,0	FALSE	FALSE	TRUE	FALSE
230	0,0	FALSE	FALSE	TRUE	FALSE
231	0,0	FALSE	FALSE	TRUE	FALSE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape  [TRUE / FALSE]
232	0,0	FALSE	FALSE	TRUE	TRUE
233	31,5	FALSE	FALSE	TRUE	FALSE
234	0,0	FALSE	FALSE	TRUE	FALSE
235	0,0	FALSE	FALSE	TRUE	TRUE
236	0,0	FALSE	FALSE	TRUE	TRUE
237	0,0	FALSE	FALSE	TRUE	TRUE
238	0,0	FALSE	FALSE	TRUE	TRUE
239	0,0	FALSE	FALSE	TRUE	FALSE
240	0,0	FALSE	FALSE	TRUE	FALSE
241	0,0	FALSE	FALSE	TRUE	TRUE
242	0,0	FALSE	FALSE	TRUE	TRUE
243	0,0	FALSE	FALSE	TRUE	FALSE
244	0,0	FALSE	FALSE	TRUE	FALSE
245	0,0	FALSE	FALSE	TRUE	FALSE
246	0,0	FALSE	FALSE	TRUE	FALSE
247	0,0	FALSE	FALSE	TRUE	FALSE
248	0,0	FALSE	FALSE	TRUE	FALSE
249	0,0	FALSE	FALSE	TRUE	TRUE
250	0,0	FALSE	FALSE	TRUE	FALSE
251	0,0	FALSE	FALSE	TRUE	FALSE
252	0,0	FALSE	FALSE	TRUE	FALSE
253	3,2	FALSE	FALSE	TRUE	FALSE
254	0,0	FALSE	FALSE	TRUE	FALSE
255	0,0	FALSE	FALSE	TRUE	FALSE
256	0,0	FALSE	FALSE	TRUE	TRUE
257	77,7	FALSE	FALSE	TRUE	TRUE
258	52,7	FALSE	FALSE	TRUE	TRUE
259	90,0	TRUE	FALSE	FALSE	TRUE
260	99,9	TRUE	TRUE	TRUE	FALSE
261	78,0	FALSE	FALSE	TRUE	FALSE
262	100,0	TRUE	TRUE	TRUE	TRUE
263	44,7	FALSE	FALSE	TRUE	FALSE
264	23,1	FALSE	FALSE	TRUE	TRUE
265	81,7	TRUE	FALSE	FALSE	FALSE
266	95,4	TRUE	TRUE	TRUE	FALSE
267	88,9	TRUE	FALSE	FALSE	TRUE
268	74,2	FALSE	FALSE	TRUE	FALSE
269	87,4	TRUE	FALSE	FALSE	FALSE
270	66,0	FALSE	FALSE	TRUE	TRUE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape  [TRUE / FALSE]
271	38,7	FALSE	FALSE	TRUE	TRUE
272	72,2	FALSE	FALSE	TRUE	FALSE
273	65,9	FALSE	FALSE	TRUE	TRUE
274	21,5	FALSE	FALSE	TRUE	FALSE
275	73,1	FALSE	FALSE	TRUE	TRUE
276	35,2	FALSE	FALSE	TRUE	FALSE
277	86,0	TRUE	TRUE	TRUE	FALSE
278	0,0	FALSE	FALSE	TRUE	FALSE
279	27,5	FALSE	FALSE	TRUE	FALSE
280	1,6	FALSE	FALSE	TRUE	FALSE
281	57,6	FALSE	FALSE	TRUE	FALSE
282	89,9	TRUE	FALSE	FALSE	TRUE
283	0,0	FALSE	FALSE	TRUE	TRUE
284	94,7	TRUE	TRUE	TRUE	FALSE
285	20,5	FALSE	FALSE	TRUE	FALSE
286	61,1	FALSE	FALSE	TRUE	FALSE
287	43,9	FALSE	FALSE	TRUE	TRUE
288	9,9	FALSE	FALSE	TRUE	TRUE
289	48,4	FALSE	FALSE	TRUE	FALSE
290	63,1	FALSE	FALSE	TRUE	FALSE
291	11,6	FALSE	FALSE	TRUE	FALSE
292	96,6	TRUE	TRUE	TRUE	TRUE
293	80,4	TRUE	FALSE	FALSE	FALSE
294	0,0	FALSE	TRUE	FALSE	FALSE
295	50,6	FALSE	FALSE	TRUE	TRUE
296	77,2	FALSE	FALSE	TRUE	TRUE
297	35,9	FALSE	FALSE	TRUE	TRUE
298	20,0	FALSE	FALSE	TRUE	TRUE
299	0,0	FALSE	FALSE	TRUE	FALSE
300	0,0	FALSE	FALSE	TRUE	FALSE
301	0,0	FALSE	FALSE	TRUE	TRUE
302	0,0	FALSE	FALSE	TRUE	FALSE
303	0,0	FALSE	FALSE	TRUE	FALSE
304	0,0	FALSE	FALSE	TRUE	TRUE
305	0,0	FALSE	FALSE	TRUE	FALSE
306	41,4	FALSE	FALSE	TRUE	TRUE
307	0,0	FALSE	FALSE	TRUE	TRUE
308	0,0	FALSE	FALSE	TRUE	FALSE
309	0,0	FALSE	FALSE	TRUE	FALSE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape  [TRUE / FALSE]
310	0,0	FALSE	FALSE	TRUE	TRUE
311	0,0	FALSE	FALSE	TRUE	TRUE
312	0,0	FALSE	FALSE	TRUE	TRUE
313	0,0	FALSE	FALSE	TRUE	FALSE
314	0,0	FALSE	FALSE	TRUE	TRUE
315	0,0	FALSE	FALSE	TRUE	FALSE
316	0,0	FALSE	FALSE	TRUE	TRUE
317	0,0	FALSE	FALSE	TRUE	FALSE
318	0,0	FALSE	FALSE	TRUE	FALSE
319	0,0	FALSE	FALSE	TRUE	FALSE
320	0,0	FALSE	FALSE	TRUE	FALSE
321	0,0	FALSE	FALSE	TRUE	FALSE
322	5,3	FALSE	FALSE	TRUE	FALSE
323	0,0	FALSE	FALSE	TRUE	FALSE
324	0,0	FALSE	FALSE	TRUE	TRUE
325	0,0	FALSE	FALSE	TRUE	FALSE
326	0,0	FALSE	FALSE	TRUE	FALSE
327	0,0	FALSE	FALSE	TRUE	TRUE
328	0,0	FALSE	FALSE	TRUE	FALSE
329	0,0	FALSE	FALSE	TRUE	FALSE
330	0,0	FALSE	FALSE	TRUE	FALSE
331	0,0	FALSE	FALSE	TRUE	FALSE
332	0,0	FALSE	FALSE	TRUE	TRUE
333	0,0	FALSE	FALSE	TRUE	TRUE
334	0,0	FALSE	FALSE	TRUE	TRUE
335	0,0	FALSE	FALSE	TRUE	FALSE
336	0,0	FALSE	FALSE	TRUE	FALSE
337	0,0	FALSE	FALSE	TRUE	TRUE
338	95,9	TRUE	TRUE	TRUE	FALSE
339	51,4	FALSE	FALSE	TRUE	TRUE
340	48,8	FALSE	FALSE	TRUE	TRUE
341	0,0	FALSE	FALSE	TRUE	FALSE
342	24,3	FALSE	FALSE	TRUE	FALSE
343	100,0	TRUE	TRUE	TRUE	TRUE
344	78,8	FALSE	FALSE	TRUE	FALSE
345	32,8	FALSE	FALSE	TRUE	FALSE
346	39,9	FALSE	FALSE	TRUE	FALSE
347	92,2	TRUE	TRUE	TRUE	TRUE
348	54,7	FALSE	FALSE	TRUE	FALSE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape  [TRUE / FALSE]
349	34,8	FALSE	FALSE	TRUE	FALSE
350	0,0	FALSE	FALSE	TRUE	FALSE
351	24,2	FALSE	FALSE	TRUE	TRUE
352	78,4	FALSE	TRUE	FALSE	FALSE
353	22,7	FALSE	FALSE	TRUE	FALSE
354	38,8	FALSE	FALSE	TRUE	TRUE
355	66,4	FALSE	FALSE	TRUE	TRUE
356	100,0	TRUE	TRUE	TRUE	TRUE
357	70,8	FALSE	FALSE	TRUE	TRUE
358	42,2	FALSE	FALSE	TRUE	FALSE
359	88,2	TRUE	FALSE	FALSE	TRUE
360	100,0	TRUE	TRUE	TRUE	FALSE
361	86,6	TRUE	TRUE	TRUE	TRUE
362	98,9	TRUE	TRUE	TRUE	TRUE
363	20,0	FALSE	FALSE	TRUE	TRUE
364	41,6	FALSE	FALSE	TRUE	FALSE
365	35,3	FALSE	FALSE	TRUE	TRUE
366	80,9	TRUE	TRUE	TRUE	FALSE
367	41,0	FALSE	FALSE	TRUE	FALSE
368	58,0	FALSE	FALSE	TRUE	FALSE
369	88,8	TRUE	TRUE	TRUE	TRUE
370	12,5	FALSE	FALSE	TRUE	FALSE
371	36,0	FALSE	FALSE	TRUE	FALSE
372	61,6	FALSE	FALSE	TRUE	FALSE
373	51,3	FALSE	FALSE	TRUE	TRUE
374	0,0	FALSE	FALSE	TRUE	TRUE
375	28,5	FALSE	FALSE	TRUE	FALSE
376	97,5	TRUE	TRUE	TRUE	TRUE
377	85,4	TRUE	FALSE	FALSE	TRUE
378	0,0	FALSE	FALSE	TRUE	FALSE
379	0,0	FALSE	FALSE	TRUE	TRUE
380	0,0	FALSE	FALSE	TRUE	TRUE
381	0,0	FALSE	FALSE	TRUE	FALSE
382	0,0	FALSE	FALSE	TRUE	FALSE
383	0,0	FALSE	FALSE	TRUE	FALSE
384	0,0	FALSE	FALSE	TRUE	FALSE
385	0,0	FALSE	FALSE	TRUE	TRUE
386	0,0	FALSE	FALSE	TRUE	FALSE
387	0,0	FALSE	FALSE	TRUE	FALSE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape  [TRUE / FALSE]
388	0,0	FALSE	FALSE	TRUE	TRUE
389	0,0	FALSE	FALSE	TRUE	FALSE
390	0,0	FALSE	FALSE	TRUE	FALSE
391	0,0	FALSE	FALSE	TRUE	FALSE
392	0,0	FALSE	FALSE	TRUE	FALSE
393	57,8	FALSE	FALSE	TRUE	FALSE
394	0,0	FALSE	FALSE	TRUE	FALSE
395	0,0	FALSE	FALSE	TRUE	FALSE
396	0,0	FALSE	FALSE	TRUE	FALSE
397	0,0	FALSE	FALSE	TRUE	FALSE
398	0,0	FALSE	FALSE	TRUE	FALSE
399	0,0	FALSE	FALSE	TRUE	TRUE
400	0,0	FALSE	FALSE	TRUE	FALSE
401	0,0	FALSE	FALSE	TRUE	FALSE
402	0,0	FALSE	FALSE	TRUE	FALSE
403	0,0	FALSE	FALSE	TRUE	TRUE
404	0,0	FALSE	FALSE	TRUE	TRUE
405	48,7	FALSE	FALSE	TRUE	FALSE
406	99,5	TRUE	TRUE	TRUE	FALSE
407	86,5	TRUE	FALSE	FALSE	FALSE
408	5,6	FALSE	FALSE	TRUE	FALSE
409	44,1	FALSE	FALSE	TRUE	FALSE
410	11,2	FALSE	FALSE	TRUE	FALSE
411	83,9	TRUE	FALSE	FALSE	FALSE
412	50,2	FALSE	FALSE	TRUE	FALSE
413	88,0	TRUE	FALSE	FALSE	FALSE
414	5,3	FALSE	FALSE	TRUE	FALSE
415	8,4	FALSE	FALSE	TRUE	FALSE
416	64,7	FALSE	FALSE	TRUE	FALSE
417	50,7	FALSE	FALSE	TRUE	FALSE
418	92,0	TRUE	FALSE	FALSE	TRUE
419	44,1	FALSE	FALSE	TRUE	TRUE
420	71,9	FALSE	FALSE	TRUE	FALSE
421	34,0	FALSE	FALSE	TRUE	FALSE
422	0,0	FALSE	FALSE	TRUE	FALSE
423	73,3	FALSE	FALSE	TRUE	TRUE
424	40,3	FALSE	FALSE	TRUE	FALSE
425	32,1	FALSE	FALSE	TRUE	TRUE
426	0,0	FALSE	FALSE	TRUE	TRUE



Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape  [TRUE / FALSE]
427	24,5	FALSE	FALSE	TRUE	TRUE
428	74,6	FALSE	FALSE	TRUE	TRUE
429	67,2	FALSE	FALSE	TRUE	FALSE
430	100,0	TRUE	TRUE	TRUE	FALSE
431	14,1	FALSE	FALSE	TRUE	TRUE