



# Delivery Report Norway

EEA-FTSP-Sealing\_CountryDeliveryReport-NO

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## CONTENT

<b>1</b>	<b>INTRODUCTION.....</b>	<b>4</b>
1.1	Purpose and Scope .....	4
1.2	Applicable Documents .....	4
1.3	Reference Documents .....	4
<b>2</b>	<b>DATA SPECIFICATIONS .....</b>	<b>4</b>
2.1	Technical Product Specification .....	4
2.2	Algorithms used .....	4
2.3	Format description .....	4
2.4	Metadata .....	4
<b>3</b>	<b>SUMMARY OF PRODUCTION.....</b>	<b>4</b>
3.1	Timetable, production milestones .....	4
3.2	Technical problems encountered, mitigation measures .....	4
3.2.1	Zone 31.....	4
3.2.2	Zone 32.....	4
3.2.3	Zone 33.....	4
3.2.4	Zone 34.....	4
3.2.5	Zone 35.....	4
3.2.6	Zone 36.....	4
<b>4</b>	<b>ACCURACY ASSESSMENT REPORT .....</b>	<b>4</b>
4.1	Description of approach.....	4
4.2	Sample placement (stratification, number & locations of sample sites).....	4
4.3	Final result .....	4
<b>5</b>	<b>DETAILED LIST OF PROVIDED DATA.....</b>	<b>4</b>
	<b>ANNEX 1: INTERPRETATION GUIDELINE FOR VISUAL CORRECTION .....</b>	<b>4</b>
	<b>ANNEX 2: LIST OF WORKING UNITS AND EO DATA USED .....</b>	<b>4</b>
	<b>ANNEX 3: SAMPLE PLOT VALIDATION SHEET .....</b>	<b>4</b>

## 1 INTRODUCTION

### 1.1 PURPOSE AND SCOPE

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

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

### 1.2 APPLICABLE DOCUMENTS

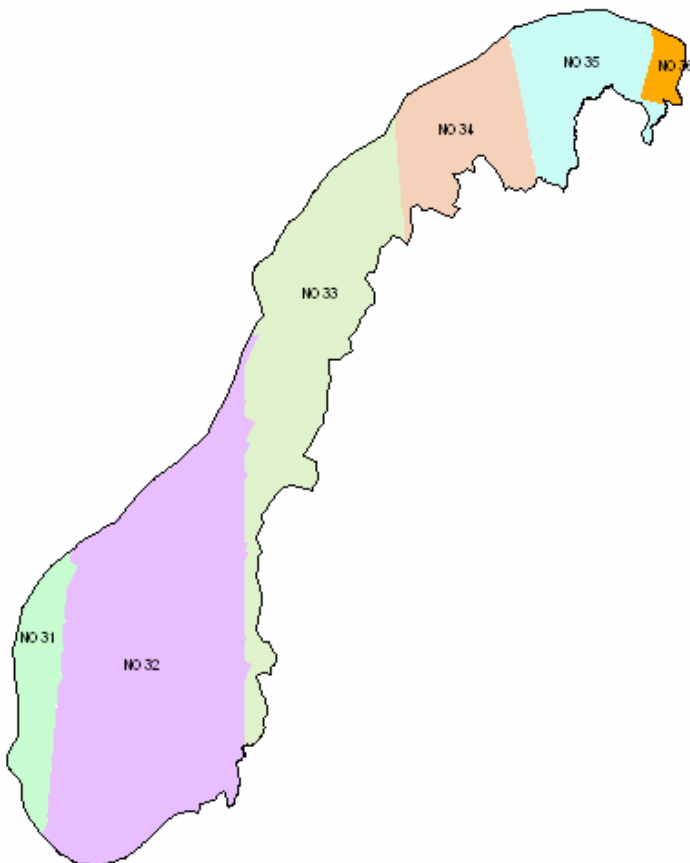
ITD-0490-PRO-0006	Proposal responding to EEA's Invitation for Tender, Technical Offer including Management Part –Issue 1

### 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

Content
<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>
Geographic coverage
<p>Norway (NO) – delivery comprises six files (UTM Zones); NO UTM 31, NO UTM 32, NO UTM 33, NO UTM 34, NO UTM 35 and NO UTM 36.</p> <p>Coverage [km<sup>2</sup>]: 323.802 (plus additional buffer of 200 meters outside of country border)</p>

<p>Figure 1: National border of Norway including the six divided UTM zones</p>

## Input data sources

### Input data provided by ESA:

- *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:*
  - *20 m resampled (with cubic convolution interpolation)*
  - *4 spectral bands*
  - *Max. 5% cloud coverage*
  - *Covering 2 dates, at least 6 weeks apart from the respect. scene selected for the first coverage*
  - *Orthorectified towards national projection systems (used DTM unknown)*
  - *Delivery on a country by country basis foreseen*
  - *Metadata to each scene*

### Input data provided by EEA

- *Dataset with national country borders (to be used for clipping the data at a national level) as defined and provided by the EEA*

### Ancillary input data

- *Digital Chart of the World data in vector format to be used for the stratification of the QA sample plots*

## Methodology

*Supervised classification of built-up areas with following visual improvement of classification result and derivation of degree of soil sealing based on calibrated NDVI*

## Geometric resolution

*Pixel resolution 20 x 20 m*

## Coordinate Reference System

### **NO zone 31**

*Universal Transverse Mercator – UTM31*

*False Easting: 500000,000000*

*False Northing: 0,000000*

*Central Meridian: 3,000000*

*Latitude of Origin: 0,000000*

*Scale Factor: 0,9996*

*Datum: D\_WGS\_1984*

### **NO zone 32**

*Universal Transverse Mercator – UTM32*

*False Easting: 500000,000000*

*False Northing: 0,000000*

*Central Meridian: 9,000000*

*Latitude of Origin: 0,000000*

*Scale Factor: 0,9996*

*Datum: D\_WGS\_1984*

### **NO zone 33**

*Universal Transverse Mercator – UTM33*

*False Easting: 500000,000000*

*False Northing: 0,000000*

*Central Meridian: 15,000000*

*Latitude of Origin: 0,000000*

*Scale Factor: 0,9996*

*Datum: D\_WGS\_1984*

### **NO zone 34**

*Universal Transverse Mercator – UTM34*

*False Easting: 500000,000000*

*False Northing: 0,000000*

*Central Meridian: 21,000000*

*Latitude of Origin: 0,000000*

*Scale Factor: 0,9996*

*Datum: D\_WGS\_1984*

### **NO zone 35**

*Universal Transverse Mercator – UTM35*

*False Easting: 500000,000000*

*False Northing: 0,000000*

*Central Meridian: 27,000000*

*Latitude of Origin: 0,000000*

*Scale Factor: 0,9996*

*Datum: D\_WGS\_1984*

<b>NO zone 36</b>
<p>Universal Transverse Mercator – UTM36  False Easting: 500000,000000  False Northing: 0,000000  Central Meridian: 33,000000  Latitude of Origin: 0,000000  Scale Factor: 0,9996  Datum: D_WGS_1984</p>
<b>Geometric accuracy (positioning scale)</b>
According to orthorectified satellite image base delivered by ESA
<b>Thematic accuracy (in %)</b>
Classification accuracy per hectare (based on 100 x 100 m grid) of built-up non built-up areas is > 85% (assessed according approach as described in chapter 4.1)
<b>Accuracy assessment approach</b>
Accuracy assessment based on random sample plots
<b>Delivery format</b>
IMAGINE Image (IMG)
<b>Data type</b>
Raster
<b>Raster coding</b>
<p>Thematic pixel values</p> <p>0 – Non-built up areas, water bodies inland</p> <p>1-100 - sealing values for built-up areas</p> <p>254 – Unclassifiable areas (clouds, shadows, etc.)</p> <p>255 – No Data (No thematic information)</p>
<b>Metadata</b>
According to EEA metadata standards (EEA MSGI specification)
<b>Ancillary Data – Mitigation shape file</b>
<p>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.</p> <p>The attribute table contains information about WU identification and possible deviations from the standard specifications of Image2006:</p> <ul style="list-style-type: none"> <li>• [Cntr] Country Code;</li> <li>• [SCU] Number of Sub-Country unit containing the Working Unit;</li> <li>• [WU_ID] Full name of the Working Unit;</li> </ul>



- *[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
-	20.12.2007 15.01.2008	05.02.2008	29.02.2008	29.02.2008	05.03.2008	23.05.2008

#### 3.2 TECHNICAL PROBLEMS ENCOUNTERED, MITIGATION MEASURES

The analysis of the GIS metadata file to the ITT's specifications yielded the following results for Norway.

If it was clouds in the 1<sup>st</sup> coverage a visual check was done to see if the area were sealed. If it appeared that there was a sealed area then the 2<sup>nd</sup> coverage was used, applying a monotemporal approach.

##### 3.2.1 Zone 31

- WU (2 coverages): 72 %
- Gaps filled with single coverage: 28%
- Gaps not covered by single coverage: None
- Country area outside of vegetation period 25<sup>th</sup> 15<sup>th</sup> of June to 20<sup>th</sup> of August: 91 %
- Country area with acquisition dates less than 6 weeks apart: None
- Clouds and shadows in WU: 0.010%

##### 3.2.2 Zone 32

- WU (2 coverages): 88 %
- Gaps filled with single coverage: 12%
- Gaps not covered by single coverage: 0%
- Country area outside of vegetation period 15<sup>th</sup> of June to 20<sup>th</sup> of August: 85 %
- Country area with acquisition dates less than 6 weeks apart: 13 %
- Clouds and shadows in WU: 0.27%

### 3.2.3 Zone 33

- WU (2 coverages): 83 %
- Gaps filled with single coverage: 17%
- Gaps not covered by single coverage: None
- Country area outside of vegetation period 25<sup>th</sup> 15<sup>th</sup> of June to 20<sup>th</sup> of August: 61 %
- Country area with acquisition dates less than 6 weeks apart: 27 %
- Clouds in WU: 0.03%

### 3.2.4 Zone 34

- WU (2 coverages): 89 %
- Gaps filled with single coverage: 11%
- Gaps not covered by single coverage: None
- Country area outside of vegetation period 25<sup>th</sup> 15<sup>th</sup> of June to 20<sup>th</sup> of August: None
- Country area with acquisition dates less than 6 weeks apart: None
- Clouds in single coverages outside WU: None

### 3.2.5 Zone 35

- WU (2 coverages): 64 %
- Gaps filled with single coverage: 36%
- Gaps not covered by single coverage: None
- Country area outside of vegetation period 15<sup>th</sup> of June to 20<sup>th</sup> of August: 25 %
- Country area with acquisition dates less than 6 weeks apart: 40 %
- Clouds and shadows in WU: None

### 3.2.6 Zone 36

- WU (2 coverages): None
- Gaps filled with single coverage: 100 %
- Gaps not covered by single coverage: None
- Country area outside of vegetation period 15<sup>th</sup> of June to 20<sup>th</sup> of August: 100 %
- Country area with acquisition dates less than 6 weeks apart: None
- Clouds and shadows in WU: 42.5%

## 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 assessed
2. Stratification of the area based on Corine Land Cover level I. To emphasize the accuracy assessment 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 nation, 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 satellite 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 accuracy, (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 %.

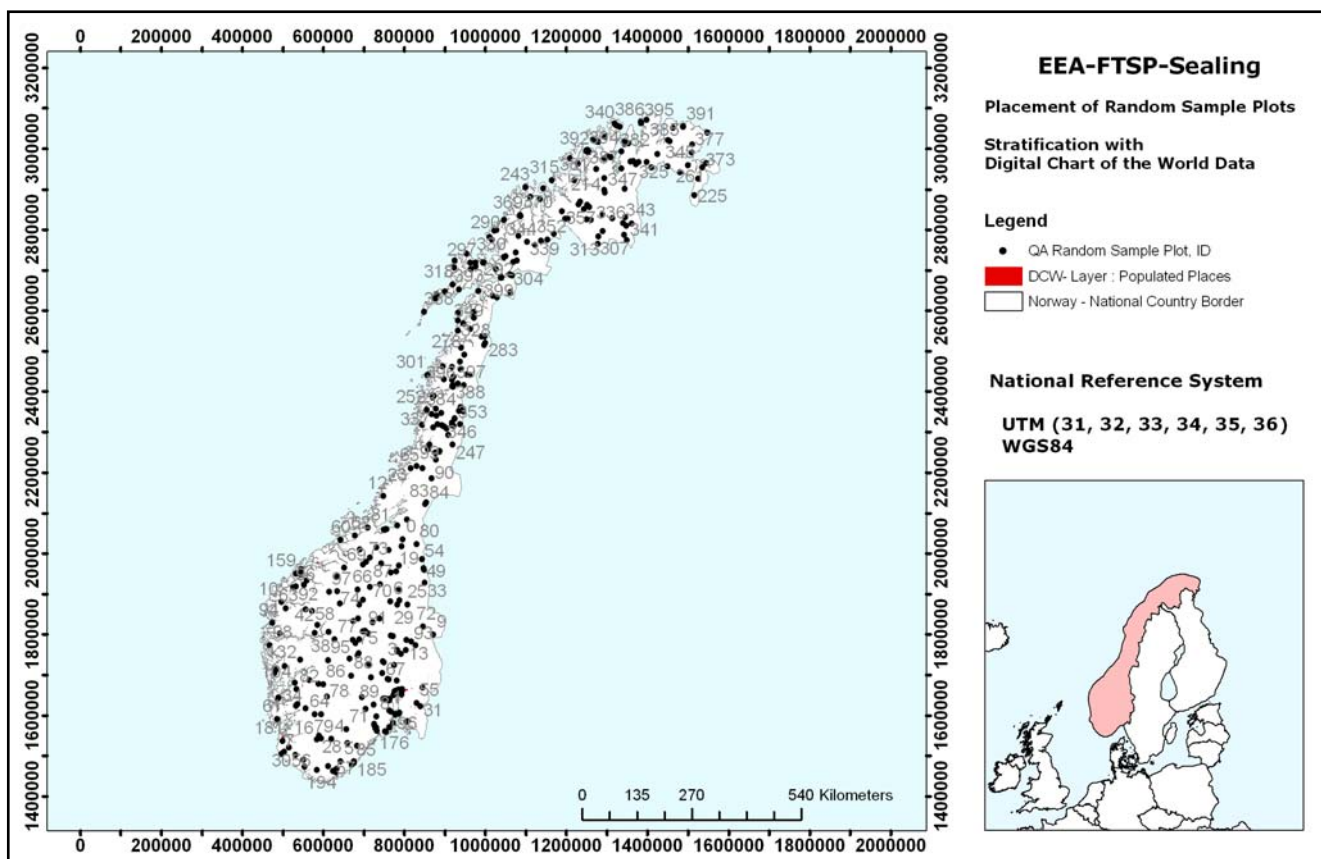
Accuracy assessment is performed per country product for internal quality control. For final acceptance by EEA, the overall accuracy of the European product is arbitative.

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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: 400 (120 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
Validation		>80%	<80%	$\Sigma$	
	>80%	3	4	7	
	<80%	2	267	269	
	$\Sigma$	5	271	276	
	User's Accuracy	60,0%	98,5%		
	Commission Error	40,0%	1,5%		
	Overall Accuracy	97,8%			



## 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 six separated files according to different projection zones of the national reference system:
  - WGS 84 UTM Zone 31
  - WGS 84 UTM Zone 32
  - WGS 84 UTM Zone 33
  - WGS 84 UTM Zone 34
  - WGS 84 UTM Zone 35
  - WGS 84 UTM Zone 36
- 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:
- 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

## 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 FTSP in Relation to Corine Land Cover

The FTSP 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.

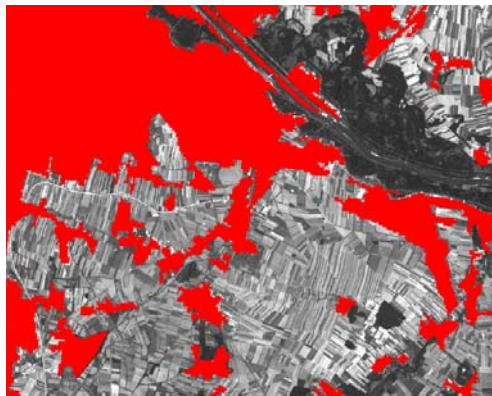
CLC level 1 class 'artificial surfaces' contains artificial surfaces and functionally related vegetated areas, reflecting the land use aspect. Therefore a significant part of this CLC level 1 class contains vegetated areas composed of fully vegetated pixels. However, in the FTSP product only pixels that 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.

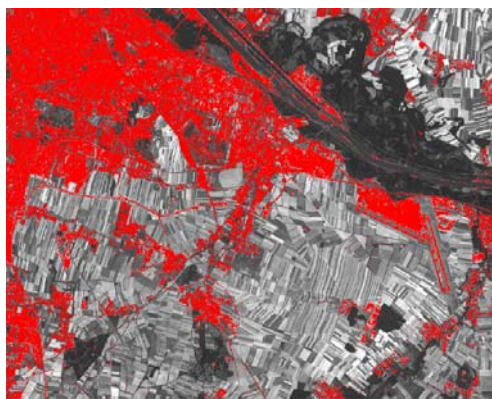
SPOT-4 satellite image over Vienna / Austria  
(green band; 20m resolution)



CLC 2000 - level 1 class "artificial surfaces"



FTSP high-resolution layer of built-up areas  
(20m resolution)



### 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 Norway

UTM zone	Working_unit
NO31	irsp6_014022_060610_I30_spot4_030222_060924_1i6
NO31	irsp6_014022_060610_I30_spot4_030222_061004_1i0
NO31	irsp6_014022_060610_I30_spot5_029222_060922_1j6
NO31	irsp6_014023_060610_I30_spot4_030222_060924_1i6
NO31	irsp6_014023_060610_I30_spot4_030223_060924_1i6
NO31	irsp6_014023_060610_I30_spot4_030224_051016_2i0
NO31	irsp6_014023_060610_I30_spot4_030224_060814_1i0
NO31	irsp6_014023_060610_I30_spot4_030225_051016_2i0
NO31	irsp6_014023_060610_I30_spot5_029222_060922_1j6
NO31	irsp6_017025_060719_I30_spot4_033228_070415_2i0
NO31	irsp6_017025_060719_I30_spot4_033229_070415_2i0
NO31	spot4_033224_060818_2i0_spot5_033224_051024_2j0
NO31	spot4_033225_051016_1i0_spot4_033225_060818_2i0
NO31	spot4_033226_051016_1i0_spot4_033226_060818_2i0
NO31	spot4_033226_060914_1i0_spot4_034226_060719_2i0
NO31	spot4_033227_051016_1i0_spot4_033227_060818_2i0
NO31	spot4_033227_060814_2i1_spot4_033227_070415_2i0
NO31	spot4_033227_060814_2i1_spot4_033228_070415_2i0
NO31	spot4_033227_070415_2i0_spot4_034226_060719_2i7
NO31	spot4_033228_060808_1i1_spot4_033228_070415_2i0
NO31	spot4_033229_060814_2i0_spot4_033229_070415_2i0
NO31	irsp6_017024_060719_I30
NO31	irsp6_017025_060719_I31
NO31	irsp6_014022_060610_I30
NO31	irsp6_014023_060610_I30
NO31	irsp6_017025_060719_I30
NO31	spot4_033227_070415_2i0
NO31	spot4_033228_070415_2i0
NO31	spot4_034226_060719_2i7
NO32	irsp6_014021_060610_I30_irsp6_016021_060924_I30

NO32	irsp6_014021_060610_l30_spot4_030221_060924_i10
NO32	irsp6_014021_060610_l30_spot4_033220_060819_i10
NO32	irsp6_014021_060610_l30_spot4_033220_070607_i10
NO32	irsp6_014021_060610_l30_spot4_033221_051016_i10
NO32	irsp6_014021_060610_l30_spot4_033221_060819_i10
NO32	irsp6_016021_060924_l30_irsp6_017021_050630_l30
NO32	irsp6_016021_060924_l30_irsp6_017022_050630_l30
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NO32	irsp6_017019_050630_l30_spot4_034213_060809_i20
NO32	irsp6_017020_050630_l30_irsp6_018021_060724_l30
NO32	irsp6_017020_050630_l30_spot4_037217_060925_i20
NO32	irsp6_017021_050630_l30_irsp6_018021_060724_l30
NO32	irsp6_017021_050630_l30_spot4_034218_060915_i20
NO32	irsp6_017021_050630_l30_spot4_038220_060819_i20
NO32	irsp6_017022_050630_l30_irsp6_017023_060719_l30
NO32	irsp6_017022_050630_l30_spot4_034221_060914_i20
NO32	irsp6_017022_050630_l30_spot4_034222_060723_i10
NO32	irsp6_017022_050630_l30_spot4_034222_060914_i20
NO32	irsp6_017022_050630_l30_spot4_037221_070616_i10
NO32	irsp6_017022_050630_l30_spot4_037222_070611_i10
NO32	irsp6_017022_050630_l30_spot4_038223_051017_i10
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NO32	irsp6_017022_050630_l30_spot5_034222_061014_i28
NO32	irsp6_017022_050630_l30_spot5_034222_070721_i10
NO32	irsp6_017023_060719_l30_spot4_033223_070822_i23
NO32	irsp6_017023_060719_l30_spot4_033224_070616_i20
NO32	irsp6_017023_060719_l30_spot4_037224_060914_i20
NO32	irsp6_017023_060719_l30_spot4_038223_051017_i10
NO32	irsp6_017023_060719_l30_spot4_038224_051017_i10
NO32	irsp6_017023_060719_l30_spot4_038225_051017_i10
NO32	irsp6_017023_060719_l30_spot4_038226_051017_i10
NO32	irsp6_017023_060719_l30_spot5_033222_070701_i13
NO32	irsp6_017023_060719_l30_spot5_034222_061014_i28
NO32	irsp6_017024_060719_l30_spot4_037227_061010_i13
NO32	irsp6_017024_060719_l30_spot4_038226_051017_i10
NO32	irsp6_017024_060719_l30_spot4_038227_051017_i10
NO32	irsp6_017024_060719_l30_spot4_038228_051017_i10
NO32	irsp6_017025_050513_l30_irsp6_017025_060719_l31
NO32	irsp6_017025_050513_l30_spot4_038231_051017_i10
NO32	irsp6_017025_060719_l31_spot4_037228_061010_i13
NO32	irsp6_017025_060719_l31_spot4_038228_071026_i24
NO32	irsp6_017025_060719_l31_spot4_038230_061015_i20
NO32	irsp6_018020_050705_l30_spot4_038216_051016_i10
NO32	irsp6_018020_050705_l30_spot4_038217_070928_i20
NO32	irsp6_018020_050705_l30_spot5_037216_060930_i11

NO32	irsp6_018021_060724_I30	irsp6_019021_060611_I30
NO32	irsp6_018021_060724_I30	irsp6_019022_060611_I30
NO32	irsp6_018021_060724_I30_spot4_037218_060930_1i0	
NO32	irsp6_018021_060724_I30_spot4_038218_070928_2i0	
NO32	irsp6_018022_050705_I30	irsp6_019022_060611_I30
NO32	irsp6_018022_050705_I30	irsp6_019023_060611_I30
NO32	irsp6_018022_050705_I30_spot4_038221_060914_1i0	
NO32	irsp6_018022_050705_I30_spot4_038222_060914_1i0	
NO32	irsp6_019022_060611_I30_spot4_041221_071005_2i0	
NO32	irsp6_019022_060611_I30_spot4_042222_061016_2i0	
NO32	irsp6_019023_060611_I30_spot4_038223_051017_1i0	
NO32	irsp6_019023_060611_I30_spot4_038223_051017_2i0	
NO32	irsp6_019023_060611_I30_spot4_038224_051017_2i0	
NO32	irsp6_019023_060611_I30_spot4_038224_060804_2i0	
NO32	irsp6_019023_060611_I30_spot4_038225_051017_2i0	
NO32	irsp6_019023_060611_I30_spot4_041225_071010_2i0	
NO32	irsp6_019024_060611_I30	irsp6_021024_050415_I30
NO32	irsp6_019024_060611_I30_spot4_038225_051017_2i0	
NO32	irsp6_019024_060611_I30_spot4_038226_051017_2i0	
NO32	irsp6_019024_060611_I30_spot4_038227_051017_2i0	
NO32	irsp6_019024_060611_I30_spot4_038227_061015_2i3	
NO32	irsp6_019024_060611_I30_spot4_041226_071005_2i0	
NO32	irsp6_019024_060611_I30_spot4_041227_071005_2i0	
NO32	irsp6_019024_060611_I30_spot4_042228_060909_2i0	
NO32	irsp6_019025_060611_I30	irsp6_020026_061014_I30
NO32	irsp6_019025_060611_I30_spot4_038230_051017_2i0	
NO32	irsp6_019025_060611_I30_spot4_038231_051017_1i0	
NO32	irsp6_019025_060611_I30_spot4_038231_051017_2i0	
NO32	irsp6_019025_060611_I31	irsp6_021025_070405_I30
NO32	irsp6_019025_060611_I31_spot4_038228_061015_2i0	
NO32	irsp6_019025_060611_I31_spot4_038229_051017_2i0	
NO32	irsp6_019025_060611_I31_spot4_041229_071005_2i0	
NO32	irsp6_019025_060611_I31_spot4_041230_071005_2i0	
NO32	irsp6_019025_060611_I31_spot4_042228_060909_2i0	
NO32	irsp6_019025_060611_I31_spot4_042229_061101_1i0	
NO32	irsp6_019025_060611_I31_spot4_042230_060905_1i0	
NO32	irsp6_020026_061014_I30	irsp6_021025_060715_I30
NO32	irsp6_021023_060715_I30_spot4_042225_071010_1i0	
NO32	irsp6_021024_050415_I30	irsp6_021024_060715_I30
NO32	irsp6_021025_060715_I30	irsp6_021025_070405_I30
NO32	irsp6_021025_060715_I30_spot4_042230_060905_1i0	
NO32	irsp6_021025_060715_I31	irsp6_021025_070405_I30
NO32	irsp6_021025_070405_I30_spot4_042228_060909_2i0	
NO32	irsp6_022025_060720_I30_spot4_046229_060910_1i0	
NO32	irsp6_022025_060720_I30_spot4_046229_070401_1i0	



NO32	spot4_030221_060924_1i0_spot4_033221_051016_1i0
NO32	spot4_030221_060924_1i0_spot5_033222_060723_2j1
NO32	spot4_033220_060819_1i0_spot4_033220_070607_1i0
NO32	spot4_033221_051016_1i0_spot4_033221_060819_1i0
NO32	spot4_033221_051016_1i0_spot4_033221_070607_1i8
NO32	spot4_033221_060819_1i0_spot4_034221_070430_1i0
NO32	spot4_033221_070607_1i8_spot4_033222_061004_2i0
NO32	spot4_033221_070607_1i8_spot4_034222_060723_1i0
NO32	spot4_033222_061004_2i0_spot5_033222_060723_2j1
NO32	spot4_033222_061004_2i0_spot5_033222_070701_1j3
NO32	spot4_033223_051016_1i0_spot4_033223_070822_2i3
NO32	spot4_033223_051016_1i0_spot5_033222_060723_2j1
NO32	spot4_033223_051016_1i0_spot5_033222_070701_1j3
NO32	spot4_033223_070822_2i3_spot4_033224_070616_2i0
NO32	spot4_033223_070822_2i3_spot5_033222_070701_1j3
NO32	spot4_033224_070616_2i0_spot4_034225_060719_2i0
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NO32	spot4_038225_051017_1i0_spot4_038225_060804_2i0
NO32	spot4_038226_051017_1i0_spot4_038226_060804_2i0
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NO32	spot5_038220_070928_2j0_irs6_018021_060724_I30
NO32	spot5_041226_060804_1j0_irs6_019024_060611_I30
NO32	spot5_041227_061015_1j2_irs6_019024_060611_I30
NO32	spot5_041228_061015_1j0_irs6_019024_060611_I30
NO32	spot5_041228_061015_1j0_irs6_019025_060611_I31
NO32	spot5_041231_061014_2j0_irs6_019025_060611_I30
NO32	spot5_041232_061025_2j0_irs6_019025_060611_I30
NO32	spot5_042220_071005_2j0_irs6_019021_060611_I30
NO32	spot5_042220_071005_2j0_irs6_019022_060611_I30
NO32	spot5_042224_071007_2j0_irs6_019023_060611_I30
NO32	spot5_042224_071007_2j0_irs6_021023_060715_I30
NO32	spot5_045223_070823_2j0_irs6_021023_060715_I30
NO32	spot5_045230_060909_1j0_irs6_021025_060715_I30
NO32	spot5_046228_060908_1j3_irs6_022025_060720_I30
NO32	irs6_014021_060610_I30
NO32	irs6_017019_050630_I30
NO32	irs6_017020_050630_I30
NO32	irs6_017021_050630_I30
NO32	irs6_017022_050630_I30
NO32	irs6_017023_060719_I30
NO32	irs6_017024_060719_I30
NO32	irs6_017025_050513_I30
NO32	irs6_019022_060611_I30
NO32	irs6_019023_060611_I30
NO32	irs6_019023_060715_I30

NO32	irsp6_019025_060611_I30
NO32	irsp6_021024_060715_I30
NO32	irsp6_021025_060715_I30
NO32	spot4_030221_060924_1i0
NO32	spot4_033223_051016_1i0
NO32	spot4_033223_070822_2i3
NO32	spot4_038231_051017_1i0
NO32	spot5_033222_060723_2j1
NO32	spot4_033224_070616_2i0
NO32	spot4_034224_060804_1i0
NO32	spot4_034225_060719_2i0
NO33	irsp6_016016_050719_I30 spot4_034206_060915_2i0
NO33	irsp6_016016_050719_I30 spot4_034207_060926_2i0
NO33	irsp6_016017_050719_I30 spot4_034211_060925_2i0
NO33	irsp6_017017_050630_I30 spot4_034208_060926_1i0
NO33	irsp6_017017_050630_I30 spot4_037209_060915_2i0
NO33	irsp6_018016_050705_I30 spot4_038205_060829_2i0
NO33	irsp6_018016_050705_I30 spot4_038206_060903_2i0
NO33	irsp6_018017_050705_I30 spot4_038209_060914_1i0
NO33	irsp6_018018_060630_I30 irsp6_016017_050719_I30
NO33	irsp6_018018_060630_I30 spot4_034211_060925_2i0
NO33	irsp6_018018_060630_I30 spot4_038211_060518_2i0
NO33	irsp6_018018_060630_I30 spot4_038212_070621_1i0
NO33	irsp6_018018_060630_I30 spot4_041212_060819_2i0
NO33	irsp6_018019_060630_I30 spot4_037214_070621_1i0
NO33	irsp6_018019_060630_I30 spot4_038212_070621_1i0
NO33	irsp6_018019_060630_I30 spot4_038213_070621_1i0
NO33	irsp6_018019_060630_I30 spot4_038215_051016_1i0
NO33	irsp6_018019_060630_I30 spot4_038215_070531_2i0
NO33	irsp6_019016_060729_I30 irsp6_018016_050705_I30
NO33	irsp6_019017_060729_I30 irsp6_018017_050705_I30
NO33	irsp6_019017_060729_I30 spot4_038207_060929_1i0
NO33	irsp6_019018_060822_I30 irsp6_018017_050705_I30
NO33	irsp6_019018_060822_I30 irsp6_018018_060630_I30
NO33	irsp6_019018_060822_I30 spot4_042212_070624_1i0
NO33	irsp6_019019_060822_I30 irsp6_018018_060630_I30
NO33	irsp6_019019_060822_I30 irsp6_018019_060630_I30
NO33	irsp6_019019_060822_I30 spot4_042214_070617_1i1
NO33	irsp6_019019_060822_I30 spot5_042215_070919_2j0
NO33	irsp6_020017_060827_I30 irsp6_018016_050705_I30
NO33	irsp6_020018_060803_I30 spot4_042210_070624_2i7
NO33	irsp6_020018_060803_I30 spot4_042212_070624_1i0
NO33	irsp6_020020_060803_I30 spot4_038215_070531_2i0
NO33	irsp6_020020_060803_I30 spot4_038216_051016_2i0
NO33	irsp6_020020_060803_I30 spot4_041217_070617_2i0



NO33	irsp6_020020_060803_I30_spot4_042216_060612_1i6
NO33	irsp6_020020_060803_I30_spot4_042217_060612_1i0
NO33	irsp6_020020_060803_I30_spot5_042215_070919_2j0
NO33	irsp6_020020_060803_I30_spot5_042217_061009_1j3
NO33	irsp6_020021_060803_I30_spot4_041217_070606_2i8
NO33	irsp6_020021_060803_I30_spot4_041217_070617_2i0
NO33	irsp6_020021_060803_I30_spot4_042218_071005_1i0
NO33	irsp6_020021_060803_I30_spot5_041219_071005_2j0
NO33	irsp6_021022_060715_I30_spot4_042221_071006_1i0
NO33	irsp6_021022_060715_I30_spot4_045221_060831_1i8
NO33	spot4_034212_060809_2i0_spot4_034211_060925_2i0
NO33	spot4_038210_060820_1i0_spot4_038210_060518_2i0
NO33	spot4_038211_060820_1i0_irsp6_018018_060630_I30
NO33	spot4_038215_070531_2i0_spot4_038215_051016_1i0
NO33	spot4_041210_060914_2i0_irsp6_020018_060803_I30
NO33	spot4_041215_060820_1i0_irsp6_018019_060630_I30
NO33	spot4_041215_060820_1i0_spot4_038215_070531_2i0
NO33	spot4_041217_070617_2i0_spot4_038216_051016_2i0
NO33	spot4_041218_060724_1i0_spot4_041217_070617_2i0
NO33	spot4_042216_060819_1i0_irsp6_018019_060630_I30
NO33	spot4_042216_060819_1i0_spot4_045216_060628_1i4
NO33	spot4_046226_050910_1i0_spot4_046226_070427_2i0
NO33	spot4_046227_060915_1i0_spot4_046226_050910_1i0
NO33	spot4_046227_060915_1i0_spot5_049227_050619_1j2
NO33	spot5_042220_050630_1j0_irsp6_020021_060803_I30
NO33	spot5_042220_050630_1j0_irsp6_021022_060715_I30
NO33	spot5_045218_060705_1j0_spot4_042218_071005_1i0
NO33	spot5_045223_060611_2j0_spot4_046224_071009_1i0
NO33	spot5_046224_060804_1j0_spot4_046224_071009_1i0
NO33	spot5_046225_050909_1j0_spot4_046224_071009_1i0
NO33	spot5_046225_050909_1j0_spot4_046226_070427_2i0
NO33	irsp6_020021_060803_I30
NO33	irsp6_021022_060715_I30
NO33	spot4_038204_060829_2i0
NO33	spot4_038215_051016_1i0
NO33	spot4_038216_051016_2i0
NO33	spot4_041217_070617_2i0
NO33	spot4_041218_060724_1i0
NO33	spot4_042208_060815_1i0
NO33	spot4_042213_060914_1i0
NO33	spot4_042216_060819_1i0
NO33	spot4_046224_071009_1i0
NO33	spot4_046226_050910_1i0
NO33	spot4_046227_060915_1i0
NO33	spot5_042220_050630_1j0

NO33	spot5_045222_060611_2j0
NO33	spot5_045223_060611_2j0
NO33	spot5_046225_050909_1j0
NO33	irsp6_016017_050719_I30
NO33	irsp6_017017_050630_I30
NO33	irsp6_018016_050705_I30
NO33	irsp6_018018_060630_I30
NO33	irsp6_018019_060630_I30
NO33	irsp6_019016_060729_I30
NO33	irsp6_019017_060729_I30
NO33	irsp6_019018_060822_I30
NO33	irsp6_020020_060803_I30
NO34	irsp6_020015_060827_I30 irsp6_018015_050705_I30
NO34	irsp6_020016_060827_I30 irsp6_018015_050705_I30
NO34	irsp6_022015_050701_I30 irsp6_020015_060827_I30
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NO34	irsp6_022016_050701_I30 irsp6_020015_060827_I30
NO34	irsp6_022016_050701_I30 irsp6_020016_060827_I30
NO34	irsp6_022017_050701_I30 irsp6_020016_060827_I30
NO34	irsp6_023015_050706_I30 irsp6_022015_050818_I30
NO34	irsp6_024016_060730_I30 irsp6_022016_050701_I30
NO34	spot4_042207_060729_2i4 irsp6_022017_050701_I30
NO34	spot4_042208_070624_2i0 irsp6_022017_050701_I30
NO34	spot4_042208_070624_2i0 spot4_042207_060729_2i4
NO34	spot4_045206_070622_1i0 irsp6_020016_060827_I30
NO34	spot4_045207_060915_1i6 irsp6_022017_050701_I30
NO34	spot4_046201_060824_2i7 irsp6_022015_050818_I30
NO34	spot4_046201_060824_2i7 irsp6_023015_050706_I30
NO34	spot4_046205_060729_1i5 irsp6_022016_050701_I30
NO34	spot4_046205_060820_2i0 irsp6_022016_050701_I30
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NO34	spot4_053206_060915_1i0 irsp6_024016_060730_I30
NO34	spot4_053207_060915_1i0 spot4_050207_060727_2i0
NO34	spot4_054207_070706_1i0 irsp6_024016_060730_I30
NO34	spot5_049201_060729_1j4 irsp6_023015_050706_I30
NO34	irsp6_018015_050705_I30
NO34	irsp6_020015_060827_I30
NO34	irsp6_020016_060827_I30
NO34	irsp6_022017_050701_I30
NO34	irsp6_023015_050706_I30
NO34	spot4_042206_060815_1i0
NO34	spot4_042207_060729_2i4
NO34	spot4_042208_070624_2i0

NO34	spot4_046201_060824_2i7
NO34	spot5_049201_060729_1j4
NO35	irsp6_024014_060730_I30 irsp6_023014_050706_I30
NO35	irsp6_024015_060730_I30 irsp6_023014_050706_I30
NO35	irsp6_027014_050702_I30 irsp6_024014_060730_I30
NO35	irsp6_027015_050702_I30 irsp6_024015_060730_I30
NO35	irsp6_029016_060824_I30 irsp6_027015_050702_I30
NO35	spot4_053203_060915_1i0 irsp6_024015_060730_I30
NO35	spot4_053205_070706_1i1 irsp6_027016_050702_I30
NO35	spot4_053205_070706_1i1 spot4_053204_060811_2i4
NO35	spot4_053206_070706_1i0 irsp6_027016_050702_I30
NO35	spot4_054201_060730_1i0 irsp6_027014_050702_I30
NO35	spot4_054202_071001_1i0 irsp6_027014_050702_I30
NO35	spot4_054203_071001_1i0 irsp6_024015_060730_I30
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NO35	spot4_054203_071001_1i0 irsp6_027015_050702_I30
NO35	spot4_054204_060915_2i0 irsp6_024015_060730_I30
NO35	spot4_054204_060915_2i0 irsp6_027015_050702_I30
NO35	spot4_054204_070624_2i5 irsp6_024015_060730_I30
NO35	spot4_054204_070624_2i5 spot4_053204_060811_2i4
NO35	spot4_054205_060801_2i0 irsp6_027015_050702_I30
NO35	spot4_054205_070624_1i0 irsp6_027015_050702_I30
NO35	spot4_054205_070624_1i0 spot4_054205_060801_2i0
NO35	spot4_054206_060801_2i0 irsp6_027016_050702_I30
NO35	spot4_054206_060915_2i5 irsp6_027016_050702_I30
NO35	spot4_054206_060915_2i5 spot4_053206_070706_1i0
NO35	spot4_057206_070929_2i1 irsp6_027016_050702_I30
NO35	spot4_057206_070929_2i1 spot4_053206_070706_1i0
NO35	spot4_058206_060801_1i3 irsp6_027016_050702_I30
NO35	spot4_062206_070623_2i0 irsp6_029016_060824_I30
NO35	irsp6_023014_050706_I30
NO35	irsp6_024015_060730_I30
NO35	irsp6_027014_050702_I30
NO35	irsp6_027015_050702_I30
NO35	irsp6_027016_050702_I30
NO35	irsp6_029016_060824_I30
NO35	spot4_053203_060811_2i4
NO35	spot4_053204_060811_2i4
NO35	spot4_053205_070706_1i1
NO35	spot4_053206_070706_1i0
NO36	irsp6_029015_060824_I30

### 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	0,0	FALSE	FALSE	TRUE	FALSE
2	0,0	FALSE	FALSE	TRUE	FALSE
3	0,0	FALSE	FALSE	TRUE	FALSE
4	0,0	FALSE	FALSE	TRUE	FALSE
5	0,0	FALSE	FALSE	TRUE	FALSE
6	0,0	FALSE	FALSE	TRUE	FALSE
7	0,0	FALSE	FALSE	TRUE	FALSE
8	0,0	FALSE	FALSE	TRUE	FALSE
9	0,0	FALSE	FALSE	TRUE	FALSE
10	0,0	FALSE	FALSE	TRUE	FALSE
11	0,0	FALSE	FALSE	TRUE	FALSE
12	0,0	FALSE	FALSE	TRUE	FALSE
13	0,0	FALSE	FALSE	TRUE	FALSE
14	0,0	FALSE	FALSE	TRUE	FALSE
15	0,0	FALSE	FALSE	TRUE	FALSE
16	0,0	FALSE	FALSE	TRUE	FALSE
17	0,0	FALSE	FALSE	TRUE	FALSE
18	0,0	FALSE	FALSE	TRUE	FALSE
19	0,0	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	0,0	FALSE	FALSE	TRUE	FALSE
26	0,0	FALSE	FALSE	TRUE	FALSE
27	0,0	FALSE	FALSE	TRUE	FALSE
28	0,0	FALSE	FALSE	TRUE	FALSE
29	0,0	FALSE	FALSE	TRUE	FALSE
30	0,0	FALSE	FALSE	TRUE	FALSE
31	0,0	FALSE	FALSE	TRUE	FALSE
32	0,0	FALSE	FALSE	TRUE	FALSE
33	0,0	FALSE	FALSE	TRUE	FALSE
34	0,0	FALSE	FALSE	TRUE	FALSE
35	0,0	FALSE	FALSE	TRUE	FALSE
36	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]
37	0,0	FALSE	FALSE	TRUE	FALSE
38	0,0	FALSE	FALSE	TRUE	FALSE
39	0,0	FALSE	FALSE	TRUE	FALSE
40	0,0	FALSE	FALSE	TRUE	FALSE
41	0,0	FALSE	FALSE	TRUE	FALSE
42	0,0	FALSE	FALSE	TRUE	FALSE
43	0,0	FALSE	FALSE	TRUE	FALSE
44	0,0	FALSE	FALSE	TRUE	FALSE
45	0,0	FALSE	FALSE	TRUE	FALSE
46	0,0	FALSE	FALSE	TRUE	FALSE
47	0,0	FALSE	FALSE	TRUE	FALSE
48	0,0	FALSE	FALSE	TRUE	FALSE
49	0,0	FALSE	FALSE	TRUE	FALSE
50	0,0	FALSE	FALSE	TRUE	FALSE
51	0,0	FALSE	FALSE	TRUE	FALSE
52	0,0	FALSE	FALSE	TRUE	FALSE
53	0,0	FALSE	FALSE	TRUE	FALSE
54	0,0	FALSE	FALSE	TRUE	FALSE
55	0,0	FALSE	FALSE	TRUE	FALSE
56	0,0	FALSE	FALSE	TRUE	FALSE
57	0,0	FALSE	FALSE	TRUE	FALSE
58	0,0	FALSE	FALSE	TRUE	FALSE
59	0,0	FALSE	FALSE	TRUE	FALSE
60	0,0	FALSE	FALSE	TRUE	FALSE
61	0,0	FALSE	FALSE	TRUE	FALSE
62	0,0	FALSE	FALSE	TRUE	FALSE
63	0,0	FALSE	FALSE	TRUE	FALSE
64	0,0	FALSE	FALSE	TRUE	FALSE
65	0,0	FALSE	FALSE	TRUE	FALSE
66	0,0	FALSE	FALSE	TRUE	FALSE
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	FALSE
71	0,0	FALSE	FALSE	TRUE	FALSE
72	0,0	FALSE	FALSE	TRUE	FALSE
73	0,0	FALSE	FALSE	TRUE	FALSE
74	0,0	FALSE	FALSE	TRUE	FALSE
75	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]
76	0,0	FALSE	FALSE	TRUE	FALSE
77	0,0	FALSE	FALSE	TRUE	FALSE
78	0,0	FALSE	FALSE	TRUE	FALSE
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	FALSE
83	0,0	FALSE	FALSE	TRUE	FALSE
84	0,0	FALSE	FALSE	TRUE	FALSE
85	12,9	FALSE	FALSE	TRUE	FALSE
86	0,0	FALSE	FALSE	TRUE	FALSE
87	0,0	FALSE	FALSE	TRUE	FALSE
88	0,0	FALSE	FALSE	TRUE	FALSE
89	0,0	FALSE	FALSE	TRUE	FALSE
90	0,0	FALSE	FALSE	TRUE	FALSE
91	0,0	FALSE	FALSE	TRUE	FALSE
92	0,0	FALSE	FALSE	TRUE	FALSE
93	0,0	FALSE	FALSE	TRUE	FALSE
94	0,0	FALSE	FALSE	TRUE	FALSE
95	0,0	FALSE	FALSE	TRUE	FALSE
96	0,0	FALSE	FALSE	TRUE	FALSE
97	0,0	FALSE	FALSE	TRUE	FALSE
98	0,0	FALSE	FALSE	TRUE	FALSE
99	0,0	FALSE	FALSE	TRUE	FALSE
100	0,0	FALSE	FALSE	TRUE	FALSE
101	0,0	FALSE	FALSE	TRUE	FALSE
102	0,0	FALSE	FALSE	TRUE	FALSE
103	0,0	FALSE	FALSE	TRUE	FALSE
104	0,0	FALSE	FALSE	TRUE	FALSE
105	0,0	FALSE	FALSE	TRUE	FALSE
106	0,0	FALSE	FALSE	TRUE	FALSE
107	0,0	FALSE	FALSE	TRUE	FALSE
108	0,0	FALSE	FALSE	TRUE	FALSE
109	0,0	FALSE	FALSE	TRUE	FALSE
110	0,0	FALSE	FALSE	TRUE	FALSE
111	0,0	FALSE	FALSE	TRUE	FALSE
112	0,0	FALSE	FALSE	TRUE	FALSE
113	0,1	FALSE	FALSE	TRUE	FALSE
114	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]
115	0,0	FALSE	FALSE	TRUE	FALSE
116	0,0	FALSE	FALSE	TRUE	FALSE
117	0,0	FALSE	FALSE	TRUE	FALSE
118	0,0	FALSE	FALSE	TRUE	FALSE
119	0,0	FALSE	FALSE	TRUE	FALSE
120	59,1	FALSE	FALSE	TRUE	FALSE
121	0,0	FALSE	FALSE	TRUE	FALSE
122	62,2	FALSE	FALSE	TRUE	FALSE
123	7,2	FALSE	FALSE	TRUE	FALSE
124	18,3	FALSE	FALSE	TRUE	FALSE
125	19,2	FALSE	FALSE	TRUE	FALSE
126	0,0	FALSE	FALSE	TRUE	FALSE
127	0,0	FALSE	FALSE	TRUE	FALSE
128	30,5	FALSE	FALSE	TRUE	FALSE
129	0,0	FALSE	FALSE	TRUE	FALSE
130	0,0	FALSE	FALSE	TRUE	FALSE
131	88,6	TRUE	TRUE	TRUE	FALSE
132	2,5	FALSE	FALSE	TRUE	FALSE
133	37,4	FALSE	FALSE	TRUE	FALSE
134	18,4	FALSE	FALSE	TRUE	FALSE
135	7,0	FALSE	FALSE	TRUE	FALSE
136	17,4	FALSE	FALSE	TRUE	FALSE
137	4,9	FALSE	FALSE	TRUE	FALSE
138	0,0	FALSE	FALSE	TRUE	FALSE
139	0,0	FALSE	FALSE	TRUE	FALSE
140	0,0	FALSE	FALSE	TRUE	FALSE
141	30,5	FALSE	FALSE	TRUE	FALSE
142	0,0	FALSE	FALSE	TRUE	FALSE
143	9,3	FALSE	FALSE	TRUE	FALSE
144	0,0	FALSE	FALSE	TRUE	FALSE
145	12,6	FALSE	FALSE	TRUE	FALSE
146	0,0	FALSE	FALSE	TRUE	FALSE
147	0,0	FALSE	FALSE	TRUE	FALSE
148	0,0	FALSE	FALSE	TRUE	FALSE
149	0,0	FALSE	FALSE	TRUE	FALSE
150	0,0	FALSE	FALSE	TRUE	FALSE
151	16,3	FALSE	FALSE	TRUE	FALSE
152	98,5	TRUE	FALSE	FALSE	FALSE
153	2,4	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	20,4	FALSE	FALSE	TRUE	FALSE
155	0,9	FALSE	FALSE	TRUE	FALSE
156	0,0	FALSE	FALSE	TRUE	FALSE
157	51,8	FALSE	TRUE	FALSE	FALSE
158	0,0	FALSE	FALSE	TRUE	FALSE
159	0,0	FALSE	FALSE	TRUE	FALSE
160	0,0	FALSE	FALSE	TRUE	FALSE
161	98,3	TRUE	TRUE	TRUE	FALSE
162	20,1	FALSE	FALSE	TRUE	FALSE
163	0,3	FALSE	FALSE	TRUE	FALSE
164	63,2	FALSE	TRUE	FALSE	FALSE
165	0,0	FALSE	FALSE	TRUE	FALSE
166	6,6	FALSE	FALSE	TRUE	FALSE
167	11,5	FALSE	FALSE	TRUE	FALSE
168	35,7	FALSE	FALSE	TRUE	FALSE
169	46,0	FALSE	FALSE	TRUE	FALSE
170	12,3	FALSE	FALSE	TRUE	FALSE
171	0,0	FALSE	FALSE	TRUE	FALSE
172	0,0	FALSE	FALSE	TRUE	FALSE
173	1,9	FALSE	FALSE	TRUE	FALSE
174	66,4	FALSE	TRUE	FALSE	FALSE
175	0,2	FALSE	FALSE	TRUE	FALSE
176	31,9	FALSE	FALSE	TRUE	FALSE
177	0,0	FALSE	FALSE	TRUE	FALSE
178	6,7	FALSE	FALSE	TRUE	FALSE
179	0,0	FALSE	FALSE	TRUE	FALSE
180	0,0	FALSE	FALSE	TRUE	FALSE
181	0,0	FALSE	FALSE	TRUE	FALSE
182	0,0	FALSE	FALSE	TRUE	FALSE
183	6,5	FALSE	FALSE	TRUE	FALSE
184	0,0	FALSE	FALSE	TRUE	FALSE
185	0,0	FALSE	FALSE	TRUE	FALSE
186	1,3	FALSE	FALSE	TRUE	FALSE
187	0,0	FALSE	FALSE	TRUE	FALSE
188	2,2	FALSE	FALSE	TRUE	FALSE
189	0,3	FALSE	FALSE	TRUE	FALSE
190	44,3	FALSE	FALSE	TRUE	FALSE
191	0,0	FALSE	FALSE	TRUE	FALSE
192	41,8	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]
193	21,0	FALSE	FALSE	TRUE	FALSE
194	1,2	FALSE	FALSE	TRUE	FALSE
195	26,2	FALSE	FALSE	TRUE	FALSE
196	0,0	FALSE	FALSE	TRUE	FALSE
197	85,8	TRUE	FALSE	FALSE	FALSE
198	15,3	FALSE	FALSE	TRUE	FALSE
199	0,0	FALSE	FALSE	TRUE	FALSE
200	0,0	FALSE	FALSE	TRUE	FALSE
201	0,0	FALSE	FALSE	TRUE	FALSE
202	0,0	FALSE	FALSE	TRUE	FALSE
203	0,0	FALSE	FALSE	TRUE	FALSE
204	0,0	FALSE	FALSE	TRUE	FALSE
205	0,0	FALSE	FALSE	TRUE	FALSE
206	0,0	FALSE	FALSE	TRUE	FALSE
207	0,0	FALSE	FALSE	TRUE	FALSE
208	0,0	FALSE	FALSE	TRUE	FALSE
209	0,0	FALSE	FALSE	TRUE	FALSE
210	60,1	FALSE	FALSE	TRUE	FALSE
211	0,0	FALSE	FALSE	TRUE	FALSE
212	0,0	FALSE	FALSE	TRUE	FALSE
213	0,0	FALSE	FALSE	TRUE	FALSE
214	0,0	FALSE	FALSE	TRUE	FALSE
215	0,0	FALSE	FALSE	TRUE	FALSE
216	0,0	FALSE	FALSE	TRUE	FALSE
217	0,0	FALSE	FALSE	TRUE	FALSE
218	0,0	FALSE	FALSE	TRUE	FALSE
219	0,0	FALSE	FALSE	TRUE	FALSE
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	FALSE
225	0,0	FALSE	FALSE	TRUE	FALSE
226	7,8	FALSE	FALSE	TRUE	FALSE
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	FALSE
233	0,0	FALSE	FALSE	TRUE	FALSE
234	0,0	FALSE	FALSE	TRUE	FALSE
235	0,0	FALSE	FALSE	TRUE	FALSE
236	0,0	FALSE	FALSE	TRUE	FALSE
237	0,0	FALSE	FALSE	TRUE	FALSE
238	0,0	FALSE	FALSE	TRUE	FALSE
239	0,0	FALSE	FALSE	TRUE	FALSE
240	0,0	FALSE	FALSE	TRUE	FALSE
241	0,0	FALSE	FALSE	TRUE	FALSE
242	0,0	FALSE	FALSE	TRUE	FALSE
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	FALSE
250	0,0	FALSE	FALSE	TRUE	FALSE
251	0,0	FALSE	FALSE	TRUE	FALSE
252	0,0	FALSE	FALSE	TRUE	FALSE
253	0,0	FALSE	FALSE	TRUE	FALSE
254	0,0	FALSE	FALSE	TRUE	FALSE
255	0,0	FALSE	FALSE	TRUE	FALSE
256	0,0	FALSE	FALSE	TRUE	FALSE
257	0,0	FALSE	FALSE	TRUE	FALSE
258	0,0	FALSE	FALSE	TRUE	FALSE
259	0,0	FALSE	FALSE	TRUE	FALSE
260	0,0	FALSE	FALSE	TRUE	FALSE
261	0,0	FALSE	FALSE	TRUE	FALSE
262	0,0	FALSE	FALSE	TRUE	FALSE
263	0,0	FALSE	FALSE	TRUE	FALSE
264	0,0	FALSE	FALSE	TRUE	FALSE
265	0,0	FALSE	FALSE	TRUE	FALSE
266	0,0	FALSE	FALSE	TRUE	FALSE
267	0,0	FALSE	FALSE	TRUE	FALSE
268	0,0	FALSE	FALSE	TRUE	FALSE
269	0,0	FALSE	FALSE	TRUE	FALSE
270	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]
271	0,0	FALSE	FALSE	TRUE	FALSE
272	0,0	FALSE	FALSE	TRUE	FALSE
273	0,0	FALSE	FALSE	TRUE	FALSE
274	0,0	FALSE	FALSE	TRUE	FALSE
275	0,0	FALSE	FALSE	TRUE	FALSE
276	0,0	FALSE	FALSE	TRUE	FALSE
277	0,0	FALSE	FALSE	TRUE	FALSE
278	0,0	FALSE	FALSE	TRUE	FALSE
279	0,0	FALSE	FALSE	TRUE	FALSE
280	0,0	FALSE	FALSE	TRUE	FALSE
281	0,0	FALSE	FALSE	TRUE	FALSE
282	0,0	FALSE	FALSE	TRUE	FALSE
283	0,0	FALSE	FALSE	TRUE	FALSE
284	0,0	FALSE	FALSE	TRUE	FALSE
285	0,0	FALSE	FALSE	TRUE	FALSE
286	0,0	FALSE	FALSE	TRUE	FALSE
287	0,0	FALSE	FALSE	TRUE	FALSE
288	0,0	FALSE	FALSE	TRUE	FALSE
289	0,0	FALSE	FALSE	TRUE	FALSE
290	0,0	FALSE	FALSE	TRUE	FALSE
291	0,0	FALSE	FALSE	TRUE	FALSE
292	7,6	FALSE	FALSE	TRUE	FALSE
293	0,0	FALSE	FALSE	TRUE	FALSE
294	0,0	FALSE	FALSE	TRUE	FALSE
295	0,0	FALSE	FALSE	TRUE	FALSE
296	0,0	FALSE	FALSE	TRUE	FALSE
297	0,0	FALSE	FALSE	TRUE	FALSE
298	0,0	FALSE	FALSE	TRUE	FALSE
299	0,0	FALSE	FALSE	TRUE	FALSE
300	0,0	FALSE	FALSE	TRUE	FALSE
301	0,0	FALSE	FALSE	TRUE	FALSE
302	0,0	FALSE	FALSE	TRUE	FALSE
303	0,0	FALSE	FALSE	TRUE	FALSE
304	0,0	FALSE	FALSE	TRUE	FALSE
305	0,0	FALSE	FALSE	TRUE	FALSE
306	0,0	FALSE	FALSE	TRUE	FALSE
307	0,0	FALSE	FALSE	TRUE	FALSE
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	FALSE
311	0,0	FALSE	FALSE	TRUE	FALSE
312	0,0	FALSE	FALSE	TRUE	FALSE
313	0,0	FALSE	FALSE	TRUE	FALSE
314	0,0	FALSE	FALSE	TRUE	FALSE
315	0,0	FALSE	FALSE	TRUE	FALSE
316	0,0	FALSE	FALSE	TRUE	FALSE
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	0,0	FALSE	FALSE	TRUE	FALSE
323	0,0	FALSE	FALSE	TRUE	FALSE
324	0,0	FALSE	FALSE	TRUE	FALSE
325	0,0	FALSE	FALSE	TRUE	FALSE
326	0,0	FALSE	FALSE	TRUE	FALSE
327	0,0	FALSE	FALSE	TRUE	FALSE
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	FALSE
333	0,0	FALSE	FALSE	TRUE	FALSE
334	0,0	FALSE	FALSE	TRUE	FALSE
335	0,0	FALSE	FALSE	TRUE	FALSE
336	0,0	FALSE	FALSE	TRUE	FALSE
337	0,0	FALSE	FALSE	TRUE	FALSE
338	0,0	FALSE	FALSE	TRUE	FALSE
339	0,0	FALSE	FALSE	TRUE	FALSE
340	12,0	FALSE	FALSE	TRUE	FALSE
341	0,0	FALSE	FALSE	TRUE	FALSE
342	0,0	FALSE	FALSE	TRUE	FALSE
343	0,0	FALSE	FALSE	TRUE	FALSE
344	0,0	FALSE	FALSE	TRUE	FALSE
345	0,0	FALSE	FALSE	TRUE	FALSE
346	0,0	FALSE	FALSE	TRUE	FALSE
347	0,0	FALSE	FALSE	TRUE	FALSE
348	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]
349	0,0	FALSE	FALSE	TRUE	FALSE
350	0,0	FALSE	FALSE	TRUE	FALSE
351	0,0	FALSE	FALSE	TRUE	FALSE
352	0,0	FALSE	FALSE	TRUE	FALSE
353	0,0	FALSE	FALSE	TRUE	FALSE
354	0,0	FALSE	FALSE	TRUE	FALSE
355	0,0	FALSE	FALSE	TRUE	FALSE
356	152,2	NO DATA	FALSE	FALSE	FALSE
357	0,0	FALSE	FALSE	TRUE	FALSE
358	0,0	FALSE	FALSE	TRUE	FALSE
359	0,0	FALSE	FALSE	TRUE	FALSE
360	16,9	FALSE	FALSE	TRUE	FALSE
361	0,0	FALSE	FALSE	TRUE	FALSE
362	0,0	FALSE	FALSE	TRUE	FALSE
363	41,0	FALSE	FALSE	TRUE	FALSE
364	63,2	FALSE	FALSE	TRUE	FALSE
365	15,4	FALSE	FALSE	TRUE	FALSE
366	0,0	FALSE	FALSE	TRUE	FALSE
367	0,0	FALSE	FALSE	TRUE	FALSE
368	0,0	FALSE	FALSE	TRUE	FALSE
369	2,0	FALSE	FALSE	TRUE	FALSE
370	12,0	FALSE	FALSE	TRUE	FALSE
371	0,0	FALSE	FALSE	TRUE	FALSE
372	99,5	TRUE	TRUE	TRUE	FALSE
373	25,3	FALSE	FALSE	TRUE	FALSE
374	0,0	FALSE	FALSE	TRUE	FALSE
375	0,0	FALSE	FALSE	TRUE	FALSE
376	20,0	FALSE	FALSE	TRUE	FALSE
377	39,7	FALSE	FALSE	TRUE	FALSE
378	64,3	FALSE	FALSE	TRUE	FALSE
379	0,0	FALSE	FALSE	TRUE	FALSE
380	0,0	FALSE	FALSE	TRUE	FALSE
381	20,0	FALSE	FALSE	TRUE	FALSE
382	0,0	FALSE	FALSE	TRUE	FALSE
383	62,2	FALSE	FALSE	TRUE	FALSE
384	37,9	FALSE	FALSE	TRUE	FALSE
385	0,0	FALSE	FALSE	TRUE	FALSE
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	49,0	FALSE	FALSE	TRUE	FALSE
389	52,0	FALSE	FALSE	TRUE	FALSE
390	0,0	FALSE	FALSE	TRUE	FALSE
391	16,4	FALSE	FALSE	TRUE	FALSE
392	29,7	FALSE	FALSE	TRUE	FALSE
393	0,0	FALSE	FALSE	TRUE	FALSE
394	0,0	FALSE	FALSE	TRUE	FALSE
395	0,0	FALSE	FALSE	TRUE	FALSE
396	1,6	FALSE	FALSE	TRUE	FALSE
397	0,0	FALSE	FALSE	TRUE	FALSE
398	16,4	FALSE	FALSE	TRUE	FALSE
399	42,3	FALSE	TRUE	FALSE	FALSE