

Delivery Report France

EEA-FTSP-Sealing_CountryDeliveryReport-FR

Issue 1.0
Date Issued: 19.09.2008

European Environment Agency






Service Contract No. 3601/B2007.EEA.52942

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Document Release Sheet

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Approval:	Ana Sousa, EEA	Sign _____ Date _____
Distribution:	European Environment Agency	

Change Record

Issue/Rev	Date	Page(s)	Description of Change	Release
-	19.09.08	39	Release of issue 1	F1v0

Printed on XEROX® Business paper produced using processes conforming to ISO 14001 or EMAS Environmental Management Systems –
Elemental 100% chlorine free bleached

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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 France.

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
<i>Country of France (FR)</i>
<i>Coverage [km²]: 547.030 km² (plus additional buffer of 200 meters outside of country border)</i>
Input data sources
<p><u>Input data provided by ESA:</u></p> <ul style="list-style-type: none"> ▪ <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"> • <i>20 m resampled (with cubic convolution interpolation)</i> • <i>4 spectral bands</i> • <i>Max. 5% cloud coverage</i> • <i>Covering 2 dates, at least 6 weeks apart from the respect. scene selected for the first coverage</i> • <i>Orthorectified towards national projection systems (used DTM unknown)</i> • <i>Delivery on a country by country basis foreseen</i> • <i>Metadata to each scene</i> <p><u>Input data provided by EEA</u></p> <ul style="list-style-type: none"> ▪ <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> <p><u>Ancillary input data</u></p> <ul style="list-style-type: none"> ▪ <i>National Corine Land Cover 2000 data in vector format to be used for the stratification of the QA sample plots</i>
Methodology
<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>
Geometric resolution
<i>Pixel resolution 20 x 20 m</i>

Coordinate Reference System
<i>Projection: Lambert Conformal Conic</i> <i>False Easting: 600000,00</i> <i>False Northing: 2200000,00</i> <i>Longitude of Origin: 2°20'14,025"</i> <i>Latitude of Origin: 46°48'0"</i> <i>Standard Parrallel 1: 45°53'56,108"</i> <i>Standard Parrallel 2: 47°41'45,652"</i> <i>Datum: France NTF (Ellipsoid: Clarke 1880)</i>
Geometric accuracy (positioning scale)
<i>According to orthorectified satellite image base delivered by ESA</i>
Thematic accuracy (in %)
<i>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)</i>
Accuracy assessment approach
<i>Accuracy assessment based on random sample plots</i>
Delivery format
<i>IMAGINE Image (IMG)</i>
Data type
<i>Raster</i>
Raster coding
<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>
Metadata
<i>According to EEA metadata standards (EEA MSGI specification)</i>
Ancillary Data – Mitigation shape file
<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>

- *[Cntr]* Country Code;
- *[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

Delivery format
<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>
Data type
<i>Thematic Raster</i>
Metadata
<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

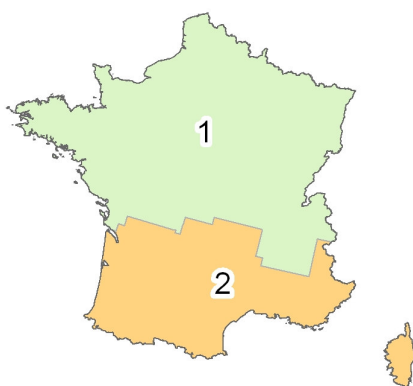
Delivery by ESA	Data Reception	Data Preparation		Received by SP	Production	
		Start	End		Start	End
03.08.2007	11.08.2007	03.12.2007	21.12.2007	07.01.2007	11.04.2008	16.09.2008

3.2 TECHNICAL PROBLEMS ENCOUNTERED, MITIGATION MEASURES

Statistics of France

		% of total area
Total area of sealing layer (country area including a 200m Buffer)	551.977 km ²	100,0%
Area with one acquisition date	82 km ²	0,0%
Area without clouds	499.267 km ²	90,5%
Area with clouds present in coverage 1	31.006 km ²	5,6%
Area with clouds present in coverage 2	20.436 km ²	3,7%
Area with clouds present in both coverages (no data)	1.268 km ²	0,2%
Area with acquisition dates less than 6 weeks apart	5.389 km ²	1,0%
Area with one acquisition dates outside of vegetation period	0 km ²	0,0%
Area with two acquisition dates outside of vegetation period	121.098 km ²	21,9%
Overall area which does not correspond to the ITT's specifications	173.412 km ²	31,4%

The country mosaic of the soil sealing layer for France is delivered in two tiles due to large volume of data set.



Tile	Filename	Area
1	EEA-FTSP-Sealing_FR1_F1v0.img	North
2	EEA-FTSP-Sealing_FR2_F1v0.img	South

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 km²
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 Earth¹)
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

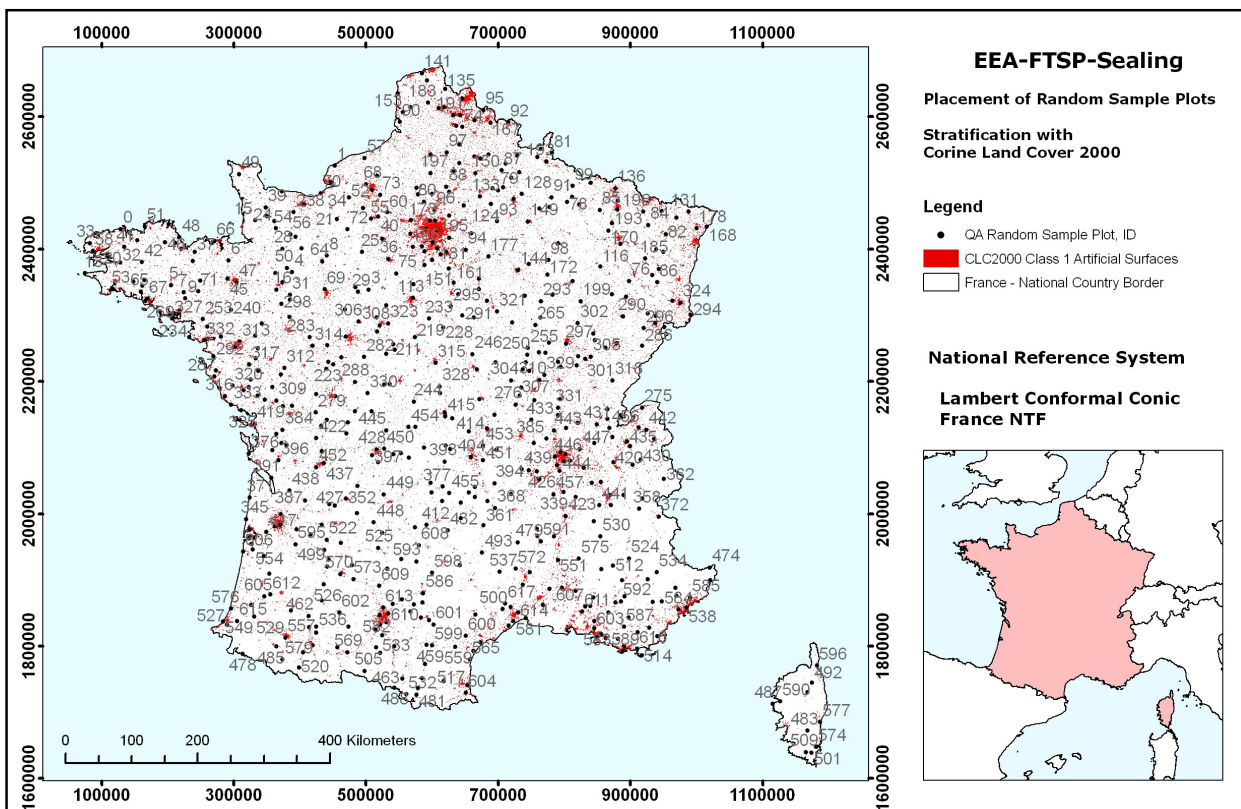
The built-up raster product which is subject to the accuracy assessment is accepted as according to the specifications if the final statistics indicate an overall accuracy of more than 85 %.

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.

¹ using web-based information input to a local server

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

Overall number of sample plots : 618 (309 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	Ommission Error
		>80%	<80%	Σ		
Validation	>80%	29	6	35	82,9%	17,1%
	<80%	10	375	385	97,4%	2,6%
	Σ	39	381	420		
	User's Accuracy	74,4%	98,4%			
	Commission Error	25,6%	1,6%			
	Overall Accuracy	96,2%				

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).
 - Tile 1 (France North)
 - Tile 2 (France South)
- 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.
- 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.

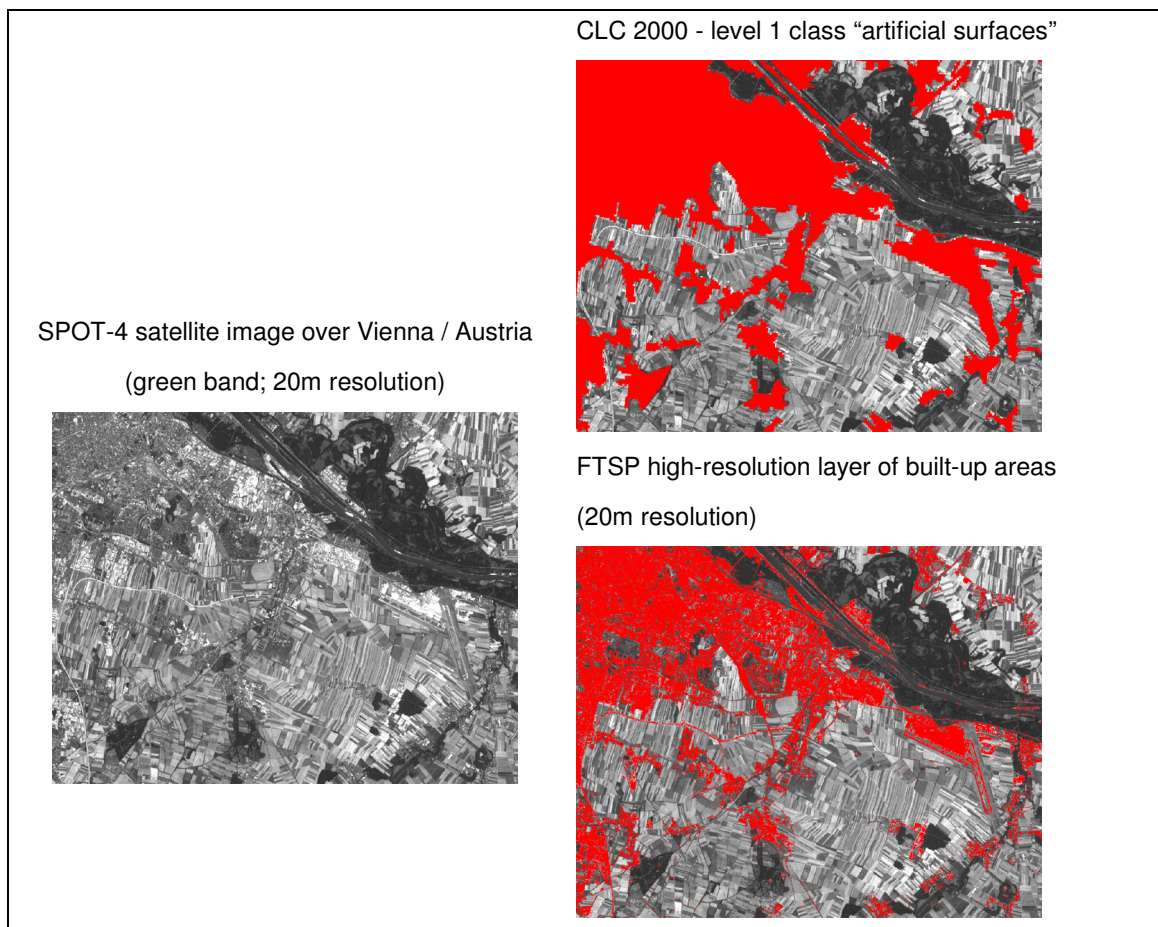
(modified according to http://glossary.eea.europa.eu/EEAGlossary/B/built_up_land)

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.



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 France

Tile	SCU	WU_ID
1	1	irsp6_012034_060718_l30_spot4_025252_070419_2i0
1	1	irsp6_012034_060718_l30_spot4_026252_060511_1i0
1	1	irsp6_013034_060605_l30_irsp6_012034_060718_l30
1	1	irsp6_013034_060605_l30_spot4_028251_060718_2i8
1	1	irsp6_013034_060605_l30_spot4_029251_070907_1i2
1	1	irsp6_013034_060605_l30_spot4_029252_070420_2i7n
1	1	irsp6_013034_060605_l30_spot5_027251_051119_2j4
1	1	irsp6_013034_060605_l30_spot5_027252_051119_2j4
1	1	irsp6_013035_050610_l30_irsp6_012034_060718_l30
1	1	irsp6_013035_050610_l30_spot4_028254_060908_1i0
1	1	irsp6_013035_050610_l30n
1	1	irsp6_015033_050714_l30_irsp6_015033_050527_l30
1	1	irsp6_015034_050714_l30_irsp6_015034_050527_l30
1	1	irsp6_015035_050316_l30_spot4_032255_050921_2i4
1	1	irsp6_015035_050527_l30_irsp6_015035_050316_l30
1	1	irsp6_015035_050527_l30_spot4_030253_060718_1i0
1	1	irsp6_015035_050527_l30_spot4_030254_060919_1i0
1	1	irsp6_015035_050527_l30_spot4_031253_060920_1i0
1	1	irsp6_015035_050527_l30_spot4_031254_060908_2i0
1	1	irsp6_016034_070311_l30_irsp6_016034_060831_l30
1	1	irsp6_016035_070311_l30_irsp6_015035_050527_l30
1	1	spot4_030253_060718_1i0_spot4_029253_051227_1i2n
1	1	spot4_030253_060718_1i0_spot4_030252_070929_1i3
1	1	spot4_030254_060919_1i0_spot4_029253_051227_1i2n
1	1	spot4_030254_060919_1i0_spot4_029254_051227_1i0n
1	1	spot5_028253_050712_1j0_spot4_028252_060718_2i6
1	1	spot5_028253_050712_1j0_spot4_029253_060908_1i0
1	1	spot5_029252_061103_2j0_spot4_030252_070929_1i3n
1	2	irsp6_016035_070311_l30_irsp6_016035_060831_l30
1	2	irsp6_016036_060714_l30_irsp6_016036_060831_l30

Tile	SCU	WU_ID
1	2	irsp6_017035_070409_l30_irsp6_017035_060905_l30
1	2	irsp6_017036_051121_l30_irsp6_016036_060831_l30
1	2	irsp6_017036_060905_l30_irsp6_017036_051121_l30
1	2	irsp6_018035_060910_l30_irsp6_018035_060606_l30
1	2	irsp6_018036_060724_l30_irsp6_018036_050915_l30
1	2	irsp6_019036_070419_l30_irsp6_018036_060724_l30
1	3	irsp6_016033_060831_l30_irsp6_016033_060714_l30
1	3	irsp6_017034_070409_l30_irsp6_017034_050817_l30n
1	3	irsp6_018032_060910_l30_irsp6_017032_060719_l30
1	3	irsp6_018033_060910_l30_irsp6_018033_060630_l30
1	3	irsp6_018034_060910_l30_irsp6_018034_060606_l30
1	3	irsp6_019032_060611_l30_irsp6_018032_060910_l30
1	3	irsp6_019033_060729_l30_irsp6_019033_060611_l30
1	3	irsp6_020033_050528_l30_irsp6_019032_060611_l30n
1	3	spot4_036249_070411_1i3_spot4_035248_060910_2i7n
1	3	spot4_036249_070411_1i3_spot4_036249_060910_2i7n
1	3	spot4_036250_060422_2i3_spot4_036249_060910_2i7n
1	3	spot4_036250_060910_2i6_irsp6_017034_050817_l30n
1	3	spot4_036251_060422_2i2_irsp6_017034_050817_l30n
1	3	spot4_037246_060909_2i8_irsp6_017032_060719_l30
1	3	spot4_038246_051122_2i7_irsp6_018032_060910_l30
1	3	spot4_039247_051218_1i6_irsp6_018032_060910_l30n
1	4	irsp6_020033_060710_l30_irsp6_020033_050528_l30
1	4	irsp6_021034_070312_l30_irsp6_021034_060901_l30
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1	4	irsp6_023034_050401_l30_irsp6_023033_060911_l30
1	4	irsp6_023034_060911_l30_irsp6_023034_050401_l30
1	4	irsp6_023035_060701_l30_irsp6_023034_060911_l30n
1	4	irsp6_024034_060612_l30_irsp6_023034_050401_l30
1	4	irsp6_024034_060612_l30_irsp6_023034_060911_l30
1	4	spot4_045250_060726_1i0_irsp6_021033_070312_l30n
1	4	spot4_048250_051028_2i1_irsp6_022033_060720_l30n
1	4	spot4_052251_070726_2i1_irsp6_024034_060612_l30
1	4	spot5_051253_060715_1j0_irsp6_023034_060911_l30n
1	5	irsp6_019034_070419_l30_irsp6_019034_060729_l30
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1	5	irsp6_020035_050715_l30_irsp6_020035_050528_l30
1	5	irsp6_020036_060710_l30_irsp6_020036_050528_l30
1	5	irsp6_021035_060901_l30_irsp6_021035_050602_l30
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1	5	spot4_040253_060905_2i7_irsp6_019035_061102_l30n
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Tile	SCU	WU_ID
1	5	spot4_041257_060724_1i0_irsp6_019036_070419_I30n
1	5	spot4_041258_060724_1i0_irsp6_019036_070419_I30n
1	5	spot4_041258_060724_1i0_irsp6_019037_070419_I30
1	5	spot5_041254_060718_2j3_irsp6_019035_061102_I30n
1	5	spot5_041255_060718_2j3_irsp6_019035_061102_I30n
1	5	spot5_041255_060718_2j3_irsp6_019036_070419_I30n
1	5	spot5_041256_060718_2j3_irsp6_019036_070419_I30n
2	6	irsp6_018037_060724_I30_irsp6_017037_051121_I30
2	6	irsp6_018037_060724_I30_irsp6_018037_060606_I30
2	6	irsp6_018038_060724_I30_irsp6_017038_051121_I30
2	6	irsp6_018038_060724_I30_irsp6_018038_060606_I30
2	6	irsp6_018039_060724_I30_irsp6_018039_060606_I30
2	6	irsp6_019037_070419_I30_irsp6_018037_060606_I30
2	6	irsp6_019038_050429_I30_irsp6_018038_060606_I30
2	6	irsp6_019039_051107_I30_irsp6_018039_060606_I30
2	6	spot4_036259_060809_1i0_irsp6_017037_051121_I30
2	6	spot4_036260_060809_1i0_irsp6_017037_051121_I30
2	6	spot4_036260_060909_1i6_irsp6_017038_051121_I30
2	6	spot4_036261_060729_2i5_irsp6_017038_051121_I30
2	6	spot4_036262_060729_2i5_irsp6_017038_051121_I30n
2	6	spot4_036263_060920_1i0_irsp6_017039_060905_I30n
2	6	spot4_037261_060724_2i0_irsp6_017038_051121_I30
2	6	spot4_040259_060920_1i0_irsp6_019037_070419_I30
2	6	spot4_040259_060920_1i8_irsp6_019038_050429_I30n
2	6	spot4_040260_060904_1i7_irsp6_019038_050429_I30
2	6	spot4_040261_060904_1i7_irsp6_019038_050429_I30
2	6	spot4_041258_060724_1i7_irsp6_019037_070419_I30
2	6	spot4_041262_050805_1i5_irsp6_019038_050429_I30
2	6	spot4_041262_050805_1i5_irsp6_019039_051107_I30
2	6	spot4_041263_060905_1i4_irsp6_019039_051107_I30
2	6	spot5_036258_060607_1j1_irsp6_017037_051121_I30
2	6	spot5_040259_050804_1j6_irsp6_019037_070419_I30
2	6	spot5_040262_050724_2j0_irsp6_019038_050429_I30
2	6	spot5_040263_050804_1j0_irsp6_019039_051107_I30
2	6	spot5_041259_060718_1j0_irsp6_019037_070419_I30
2	6	spot5_041260_050724_1j0_irsp6_019037_070419_I30
2	6	spot5_041260_050724_1j0_irsp6_019038_050429_I30
2	6	spot5_041261_060606_1j0_irsp6_019038_050429_I30
2	6	spot5_041262_060606_1j0_irsp6_019038_050429_I30
2	6	spot5_041264_060904_1j0_irsp6_019039_051107_I30
2	7	irsp6_020037_060710_I30_irsp6_019037_070419_I30
2	7	irsp6_020037_061014_I30_irsp6_020037_060710_I30
2	7	irsp6_020038_050317_I30_irsp6_019038_050429_I30
2	7	irsp6_020038_060710_I30_irsp6_020038_050317_I30

Tile	SCU	WU_ID
2	7	irsp6_020039_060710_l30_irsp6_019039_051107_l30
2	7	irsp6_020039_061014_l30_irsp6_020039_060710_l30
2	7	irsp6_021037_070312_l30_irsp6_021037_060901_l30
1	8	irsp6_023035_060818_l30_irsp6_023035_060701_l30
1	8	irsp6_023036_051010_l30_irsp6_022036_070410_l30n
1	8	irsp6_023036_051010_l30_irsp6_023035_060818_l30n
1	8	irsp6_023036_060818_l30_irsp6_023036_051010_l30
1	8	irsp6_023037_051010_l30_irsp6_023036_060818_l30n
1	8	irsp6_023037_060818_l30_irsp6_023037_051010_l30
1	8	irsp6_024036_061103_l30_irsp6_024036_060823_l30
1	8	irsp6_024037_061103_l30_irsp6_024036_060823_l30
1	8	spot4_047253_070714_2i2_spot4_047253_060318_2i0n
1	8	spot4_047254_070714_2i0_spot4_047254_050430_1i0
1	8	spot4_047255_070714_2i0_spot4_047255_060313_2i0
1	8	spot4_047256_070715_2i0_irsp6_022036_070410_l30n
1	8	spot4_051253_070726_2i8_spot4_051253_050526_2i6
1	8	spot5_046256_050715_1j6_irsp6_022036_070410_l30n
1	8	spot5_046257_050715_1j6_irsp6_022036_070410_l30n
1	8	spot5_046257_050715_1j6_spot4_046258_051103_2i0n
1	8	spot5_046258_050715_1j6_spot4_046258_051103_2i0n
1	8	spot5_047259_061227_1j0_spot5_046258_050715_1j6n
1	8	spot5_047259_061227_1j0_spot5_046259_050715_1j2n
2	9	irsp6_021038_070312_l30_irsp6_021038_060901_l30
2	9	irsp6_021039_070312_l30_irsp6_021039_060901_l30
2	9	irsp6_023038_050519_l31_irsp6_023037_060818_l30
2	9	irsp6_023038_060818_l30_irsp6_023038_050519_l30
2	9	irsp6_023038_060818_l30_irsp6_023038_050519_l31
2	9	irsp6_024037_061103_l30_irsp6_024037_060823_l30
2	9	irsp6_024038_060519_l31_irsp6_024037_060823_l30
2	9	irsp6_024038_060823_l30_irsp6_024038_060519_l30
2	9	irsp6_024038_060823_l30_irsp6_024038_060519_l31
2	9	irsp6_025038_050318_l30_irsp6_024038_060519_l31
2	9	irsp6_025038_060804_l30_irsp6_025038_050318_l30
2	9	spot4_053261_070726_2i0_irsp6_025038_050318_l30
2	9	spot4_054261_060615_2i3_irsp6_025038_050318_l30
2	9	spot5_047260_061227_1j0_spot5_047260_060730_1j0
2	9	spot5_047261_060603_2j0_irsp6_023038_050519_l31
2	9	spot5_047261_060603_2j0_spot4_047261_060905_2i2
2	9	spot5_047261_060603_2j0_spot5_046260_050508_1j5
2	9	spot5_047262_050427_2j0_irsp6_021038_060901_l30
2	9	spot5_047262_060603_2j0_spot5_047262_050427_2j0
2	9	spot5_047263_060830_1j0_spot5_046263_050427_2j0
2	9	spot5_047263_060830_1j0_spot5_047262_050427_2j0
2	9	spot5_048262_060725_1j1_irsp6_023038_050519_l30

Tile	SCU	WU_ID
2	9	spot5_048262_060725_1j1_spot5_047262_060603_2j0n
2	9	spot5_054261_050816_1j6_irsp6_025038_050318_l30
2	10	irsp6_028039_070227_l30_irsp6_027039_061025_l30
2	10	irsp6_028040_070227_l30_irsp6_027040_061025_l30
2	10	spot4_058264_060822_2i0_irsp6_027039_061025_l30
2	10	spot4_058265_060822_2i0_irsp6_027039_061025_l30
2	10	spot4_058265_060822_2i0_irsp6_027040_061025_l30
2	10	spot4_058266_060822_2i0_irsp6_027040_061025_l30
2	10	spot4_059264_060901_1i6_irsp6_027039_061025_l30
2	10	spot4_059265_060901_1i6_irsp6_028040_070227_l30
2	10	spot4_059266_060821_1i4_irsp6_028040_070227_l30
2	10	spot4_060265_060711_2i0_irsp6_028040_070227_l30
2	10	spot4_060266_060711_2i0_irsp6_028040_070227_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	0,0	FALSE	FALSE	TRUE	TRUE
2	0,0	FALSE	FALSE	TRUE	FALSE
3	0,0	FALSE	FALSE	TRUE	FALSE
4	0,0	FALSE	FALSE	TRUE	TRUE
5	14,8	FALSE	FALSE	TRUE	FALSE
6	0,0	FALSE	FALSE	TRUE	FALSE
7	0,0	FALSE	FALSE	TRUE	FALSE
8	55,3	FALSE	FALSE	TRUE	TRUE
9	0,0	FALSE	FALSE	TRUE	FALSE
10	0,0	FALSE	FALSE	TRUE	TRUE
11	0,0	FALSE	FALSE	TRUE	TRUE
12	0,0	FALSE	FALSE	TRUE	TRUE
13	0,0	FALSE	FALSE	TRUE	TRUE
14	0,0	FALSE	FALSE	TRUE	FALSE
15	0,0	FALSE	FALSE	TRUE	FALSE
16	0,0	FALSE	FALSE	TRUE	TRUE
17	0,0	FALSE	FALSE	TRUE	FALSE
18	0,0	FALSE	FALSE	TRUE	TRUE
19	0,0	FALSE	FALSE	TRUE	FALSE
20	0,0	FALSE	FALSE	TRUE	FALSE
21	0,0	FALSE	FALSE	TRUE	TRUE
22	0,0	FALSE	FALSE	TRUE	TRUE
23	0,0	FALSE	FALSE	TRUE	FALSE
24	0,0	FALSE	FALSE	TRUE	TRUE
25	4,0	FALSE	FALSE	TRUE	TRUE
26	0,0	FALSE	FALSE	TRUE	FALSE
27	0,0	FALSE	FALSE	TRUE	FALSE
28	0,0	FALSE	FALSE	TRUE	TRUE
29	0,0	FALSE	FALSE	TRUE	FALSE
30	0,0	FALSE	FALSE	TRUE	FALSE
31	0,0	FALSE	FALSE	TRUE	TRUE
32	0,0	FALSE	FALSE	TRUE	FALSE
33	0,0	FALSE	FALSE	TRUE	FALSE
34	0,0	FALSE	FALSE	TRUE	TRUE
35	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]
36	0,0	FALSE	FALSE	TRUE	TRUE
37	93,1	TRUE	TRUE	TRUE	FALSE
38	0,0	FALSE	FALSE	TRUE	TRUE
39	72,9	FALSE	FALSE	TRUE	FALSE
40	2,2	FALSE	FALSE	TRUE	FALSE
41	67,7	FALSE	FALSE	TRUE	TRUE
42	69,7	FALSE	FALSE	TRUE	TRUE
43	84,4	TRUE	FALSE	FALSE	FALSE
44	52,2	FALSE	FALSE	TRUE	TRUE
45	98,4	TRUE	TRUE	TRUE	FALSE
46	62,3	FALSE	FALSE	TRUE	FALSE
47	65,7	FALSE	FALSE	TRUE	FALSE
48	69,4	FALSE	FALSE	TRUE	TRUE
49	0,3	FALSE	FALSE	TRUE	FALSE
50	73,3	FALSE	TRUE	FALSE	TRUE
51	34,5	FALSE	FALSE	TRUE	TRUE
52	0,0	FALSE	FALSE	TRUE	FALSE
53	2,5	FALSE	FALSE	TRUE	TRUE
54	72,1	FALSE	FALSE	TRUE	FALSE
55	54,6	FALSE	FALSE	TRUE	TRUE
56	27,3	FALSE	FALSE	TRUE	TRUE
57	33,9	FALSE	FALSE	TRUE	TRUE
58	29,7	FALSE	FALSE	TRUE	FALSE
59	49,2	FALSE	FALSE	TRUE	FALSE
60	0,0	FALSE	FALSE	TRUE	FALSE
61	19,5	FALSE	FALSE	TRUE	TRUE
62	63,7	FALSE	FALSE	TRUE	TRUE
63	91,6	TRUE	TRUE	TRUE	TRUE
64	57,7	FALSE	FALSE	TRUE	TRUE
65	36,0	FALSE	FALSE	TRUE	FALSE
66	17,3	FALSE	FALSE	TRUE	FALSE
67	21,4	FALSE	FALSE	TRUE	FALSE
68	40,1	FALSE	FALSE	TRUE	FALSE
69	31,3	FALSE	FALSE	TRUE	TRUE
70	45,4	FALSE	FALSE	TRUE	FALSE
71	97,9	TRUE	FALSE	FALSE	TRUE
72	20,7	FALSE	FALSE	TRUE	TRUE
73	33,2	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]
74	0,0	FALSE	FALSE	TRUE	TRUE
75	0,0	FALSE	FALSE	TRUE	FALSE
76	0,0	FALSE	FALSE	TRUE	FALSE
77	0,0	FALSE	FALSE	TRUE	TRUE
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	0,0	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	TRUE
90	0,0	FALSE	FALSE	TRUE	FALSE
91	0,0	FALSE	FALSE	TRUE	TRUE
92	0,0	FALSE	FALSE	TRUE	FALSE
93	0,0	FALSE	FALSE	TRUE	FALSE
94	0,0	FALSE	FALSE	TRUE	TRUE
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	TRUE
99	0,0	FALSE	FALSE	TRUE	TRUE
100	6,9	FALSE	FALSE	TRUE	FALSE
101	0,0	FALSE	FALSE	TRUE	TRUE
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	TRUE
108	0,0	FALSE	FALSE	TRUE	FALSE
109	0,0	FALSE	FALSE	TRUE	FALSE
110	0,0	FALSE	FALSE	TRUE	TRUE
111	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]
112	0,0	FALSE	FALSE	TRUE	FALSE
113	18,4	FALSE	FALSE	TRUE	TRUE
114	0,0	FALSE	FALSE	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	TRUE
120	0,0	FALSE	FALSE	TRUE	FALSE
121	0,0	FALSE	FALSE	TRUE	FALSE
122	0,0	FALSE	FALSE	TRUE	FALSE
123	0,0	FALSE	FALSE	TRUE	FALSE
124	0,0	FALSE	FALSE	TRUE	TRUE
125	0,0	FALSE	FALSE	TRUE	FALSE
126	0,0	FALSE	FALSE	TRUE	FALSE
127	0,0	FALSE	FALSE	TRUE	TRUE
128	0,0	FALSE	FALSE	TRUE	TRUE
129	0,0	FALSE	FALSE	TRUE	FALSE
130	0,3	FALSE	FALSE	TRUE	FALSE
131	0,0	FALSE	FALSE	TRUE	FALSE
132	0,0	FALSE	FALSE	TRUE	FALSE
133	254,0	NO DATA	FALSE	FALSE	TRUE
134	0,0	FALSE	FALSE	TRUE	FALSE
135	0,0	FALSE	FALSE	TRUE	FALSE
136	67,7	FALSE	TRUE	FALSE	FALSE
137	49,9	FALSE	FALSE	TRUE	FALSE
138	83,1	TRUE	TRUE	TRUE	FALSE
139	82,6	TRUE	TRUE	TRUE	FALSE
140	53,8	FALSE	FALSE	TRUE	FALSE
141	61,2	FALSE	FALSE	TRUE	FALSE
142	99,0	TRUE	TRUE	TRUE	FALSE
143	0,0	FALSE	FALSE	TRUE	FALSE
144	66,9	FALSE	FALSE	TRUE	FALSE
145	14,7	FALSE	FALSE	TRUE	FALSE
146	76,4	FALSE	FALSE	TRUE	FALSE
147	38,2	FALSE	FALSE	TRUE	TRUE
148	3,7	FALSE	FALSE	TRUE	FALSE
149	72,7	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]
150	57,7	FALSE	FALSE	TRUE	FALSE
151	2,7	FALSE	FALSE	TRUE	TRUE
152	60,4	FALSE	TRUE	FALSE	TRUE
153	2,9	FALSE	FALSE	TRUE	FALSE
154	3,7	FALSE	FALSE	TRUE	FALSE
155	75,6	FALSE	FALSE	TRUE	FALSE
156	64,5	FALSE	FALSE	TRUE	FALSE
157	0,0	FALSE	FALSE	TRUE	FALSE
158	47,3	FALSE	FALSE	TRUE	FALSE
159	8,6	FALSE	FALSE	TRUE	FALSE
160	27,0	FALSE	FALSE	TRUE	FALSE
161	27,8	FALSE	FALSE	TRUE	FALSE
162	5,3	FALSE	FALSE	TRUE	TRUE
163	69,4	FALSE	FALSE	TRUE	FALSE
164	3,4	FALSE	FALSE	TRUE	FALSE
165	39,7	FALSE	FALSE	TRUE	FALSE
166	81,9	TRUE	TRUE	TRUE	FALSE
167	39,8	FALSE	FALSE	TRUE	FALSE
168	90,8	TRUE	TRUE	TRUE	FALSE
169	42,4	FALSE	FALSE	TRUE	TRUE
170	42,8	FALSE	FALSE	TRUE	FALSE
171	0,0	FALSE	FALSE	TRUE	FALSE
172	30,5	FALSE	FALSE	TRUE	TRUE
173	69,1	FALSE	FALSE	TRUE	TRUE
174	51,2	FALSE	FALSE	TRUE	FALSE
175	16,6	FALSE	FALSE	TRUE	FALSE
176	39,1	FALSE	FALSE	TRUE	FALSE
177	3,3	FALSE	FALSE	TRUE	FALSE
178	29,1	FALSE	FALSE	TRUE	FALSE
179	30,9	FALSE	FALSE	TRUE	TRUE
180	44,2	FALSE	FALSE	TRUE	TRUE
181	19,4	FALSE	FALSE	TRUE	TRUE
182	79,4	FALSE	FALSE	TRUE	FALSE
183	46,0	FALSE	FALSE	TRUE	FALSE
184	44,3	FALSE	FALSE	TRUE	FALSE
185	5,6	FALSE	FALSE	TRUE	FALSE
186	0,0	FALSE	FALSE	TRUE	TRUE
187	89,3	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]
188	5,4	FALSE	FALSE	TRUE	TRUE
189	44,0	FALSE	FALSE	TRUE	TRUE
190	98,4	TRUE	TRUE	TRUE	FALSE
191	64,1	FALSE	FALSE	TRUE	FALSE
192	0,0	FALSE	FALSE	TRUE	FALSE
193	78,1	FALSE	FALSE	TRUE	FALSE
194	24,3	FALSE	FALSE	TRUE	FALSE
195	47,0	FALSE	FALSE	TRUE	FALSE
196	0,0	FALSE	FALSE	TRUE	FALSE
197	48,2	FALSE	FALSE	TRUE	FALSE
198	0,0	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	TRUE
203	229,8	NO DATA	FALSE	FALSE	TRUE
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	11,7	FALSE	FALSE	TRUE	FALSE
211	0,0	FALSE	FALSE	TRUE	TRUE
212	2,1	FALSE	FALSE	TRUE	FALSE
213	0,0	FALSE	FALSE	TRUE	TRUE
214	0,0	FALSE	FALSE	TRUE	FALSE
215	0,0	FALSE	FALSE	TRUE	TRUE
216	2,5	FALSE	FALSE	TRUE	FALSE
217	0,0	FALSE	FALSE	TRUE	TRUE
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	TRUE
222	0,0	FALSE	FALSE	TRUE	TRUE
223	0,0	FALSE	FALSE	TRUE	TRUE
224	0,0	FALSE	FALSE	TRUE	FALSE
225	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]
226	0,0	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
232	0,0	FALSE	FALSE	TRUE	FALSE
233	0,0	FALSE	FALSE	TRUE	TRUE
234	0,0	FALSE	FALSE	TRUE	TRUE
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	TRUE
240	0,0	FALSE	FALSE	TRUE	TRUE
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	TRUE
246	0,0	FALSE	FALSE	TRUE	FALSE
247	0,0	FALSE	FALSE	TRUE	FALSE
248	0,0	FALSE	FALSE	TRUE	TRUE
249	0,0	FALSE	FALSE	TRUE	TRUE
250	0,0	FALSE	FALSE	TRUE	FALSE
251	0,0	FALSE	FALSE	TRUE	TRUE
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	TRUE
261	0,0	FALSE	FALSE	TRUE	FALSE
262	0,0	FALSE	FALSE	TRUE	TRUE
263	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]
264	0,0	FALSE	FALSE	TRUE	FALSE
265	0,0	FALSE	FALSE	TRUE	FALSE
266	0,0	FALSE	FALSE	TRUE	TRUE
267	0,0	FALSE	FALSE	TRUE	TRUE
268	15,4	FALSE	FALSE	TRUE	FALSE
269	0,0	FALSE	FALSE	TRUE	FALSE
270	42,4	FALSE	FALSE	TRUE	TRUE
271	8,7	FALSE	FALSE	TRUE	TRUE
272	48,1	FALSE	FALSE	TRUE	TRUE
273	100,0	TRUE	TRUE	TRUE	FALSE
274	78,5	FALSE	TRUE	FALSE	TRUE
275	28,9	FALSE	FALSE	TRUE	FALSE
276	86,0	TRUE	TRUE	TRUE	FALSE
277	15,2	FALSE	FALSE	TRUE	FALSE
278	15,4	FALSE	FALSE	TRUE	FALSE
279	63,3	FALSE	FALSE	TRUE	FALSE
280	13,4	FALSE	FALSE	TRUE	FALSE
281	48,9	FALSE	FALSE	TRUE	TRUE
282	76,3	FALSE	FALSE	TRUE	TRUE
283	53,7	FALSE	FALSE	TRUE	TRUE
284	75,6	FALSE	FALSE	TRUE	FALSE
285	41,3	FALSE	FALSE	TRUE	TRUE
286	69,8	FALSE	FALSE	TRUE	FALSE
287	0,0	FALSE	FALSE	TRUE	FALSE
288	41,6	FALSE	FALSE	TRUE	FALSE
289	73,5	FALSE	FALSE	TRUE	FALSE
290	45,1	FALSE	FALSE	TRUE	FALSE
291	28,0	FALSE	FALSE	TRUE	FALSE
292	0,0	FALSE	FALSE	TRUE	FALSE
293	84,5	TRUE	FALSE	FALSE	FALSE
294	15,2	FALSE	FALSE	TRUE	FALSE
295	5,3	FALSE	FALSE	TRUE	TRUE
296	68,4	FALSE	FALSE	TRUE	FALSE
297	99,7	TRUE	TRUE	TRUE	FALSE
298	63,5	FALSE	FALSE	TRUE	TRUE
299	57,9	FALSE	FALSE	TRUE	FALSE
300	0,0	FALSE	FALSE	TRUE	FALSE
301	100,0	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]
302	34,9	FALSE	FALSE	TRUE	FALSE
303	88,1	TRUE	TRUE	TRUE	FALSE
304	99,4	TRUE	TRUE	TRUE	FALSE
305	89,1	TRUE	FALSE	FALSE	FALSE
306	36,8	FALSE	FALSE	TRUE	FALSE
307	75,6	FALSE	FALSE	TRUE	FALSE
308	0,3	FALSE	FALSE	TRUE	FALSE
309	15,4	FALSE	FALSE	TRUE	FALSE
310	38,2	FALSE	FALSE	TRUE	FALSE
311	10,7	FALSE	FALSE	TRUE	FALSE
312	57,2	FALSE	FALSE	TRUE	TRUE
313	18,5	FALSE	FALSE	TRUE	TRUE
314	5,1	FALSE	FALSE	TRUE	FALSE
315	1,9	FALSE	FALSE	TRUE	TRUE
316	2,9	FALSE	FALSE	TRUE	FALSE
317	54,5	FALSE	FALSE	TRUE	TRUE
318	61,5	FALSE	FALSE	TRUE	FALSE
319	69,8	FALSE	FALSE	TRUE	FALSE
320	44,9	FALSE	FALSE	TRUE	FALSE
321	95,6	TRUE	FALSE	FALSE	FALSE
322	60,0	FALSE	FALSE	TRUE	FALSE
323	36,2	FALSE	FALSE	TRUE	TRUE
324	0,0	FALSE	FALSE	TRUE	TRUE
325	5,1	FALSE	FALSE	TRUE	FALSE
326	52,6	FALSE	FALSE	TRUE	FALSE
327	2,9	FALSE	FALSE	TRUE	TRUE
328	77,9	FALSE	TRUE	FALSE	FALSE
329	50,0	FALSE	FALSE	TRUE	FALSE
330	92,4	TRUE	FALSE	FALSE	FALSE
331	87,3	TRUE	FALSE	FALSE	FALSE
332	98,2	TRUE	TRUE	TRUE	TRUE
333	0,0	FALSE	FALSE	TRUE	FALSE
334	255,0	NO DATA	FALSE	FALSE	TRUE
335	0,0	FALSE	FALSE	TRUE	FALSE
336	0,0	FALSE	FALSE	TRUE	FALSE
337	0,0	FALSE	FALSE	TRUE	TRUE
338	0,0	FALSE	FALSE	TRUE	FALSE
339	53,1	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]
340	0,0	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	TRUE
346	0,0	FALSE	FALSE	TRUE	TRUE
347	0,0	FALSE	FALSE	TRUE	FALSE
348	0,0	FALSE	FALSE	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	0,0	FALSE	FALSE	TRUE	FALSE
357	0,0	FALSE	FALSE	TRUE	FALSE
358	0,0	FALSE	FALSE	TRUE	FALSE
359	0,0	FALSE	FALSE	TRUE	TRUE
360	0,0	FALSE	FALSE	TRUE	FALSE
361	0,0	FALSE	FALSE	TRUE	TRUE
362	0,0	FALSE	FALSE	TRUE	TRUE
363	0,0	FALSE	FALSE	TRUE	FALSE
364	0,0	FALSE	FALSE	TRUE	TRUE
365	0,0	FALSE	FALSE	TRUE	FALSE
366	0,0	FALSE	FALSE	TRUE	FALSE
367	0,0	FALSE	FALSE	TRUE	FALSE
368	0,0	FALSE	FALSE	TRUE	TRUE
369	0,0	FALSE	FALSE	TRUE	FALSE
370	0,0	FALSE	FALSE	TRUE	FALSE
371	0,0	FALSE	FALSE	TRUE	TRUE
372	0,0	FALSE	FALSE	TRUE	TRUE
373	0,0	FALSE	FALSE	TRUE	TRUE
374	0,0	FALSE	FALSE	TRUE	FALSE
375	4,9	FALSE	FALSE	TRUE	FALSE
376	0,0	FALSE	FALSE	TRUE	FALSE
377	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]
378	0,0	FALSE	FALSE	TRUE	FALSE
379	0,0	FALSE	FALSE	TRUE	FALSE
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	FALSE
386	0,0	FALSE	FALSE	TRUE	FALSE
387	0,0	FALSE	FALSE	TRUE	FALSE
388	0,0	FALSE	FALSE	TRUE	FALSE
389	0,0	FALSE	FALSE	TRUE	FALSE
390	0,0	FALSE	FALSE	TRUE	TRUE
391	0,0	FALSE	FALSE	TRUE	TRUE
392	0,0	FALSE	FALSE	TRUE	FALSE
393	0,0	FALSE	FALSE	TRUE	FALSE
394	0,0	FALSE	FALSE	TRUE	TRUE
395	0,0	FALSE	FALSE	TRUE	FALSE
396	0,0	FALSE	FALSE	TRUE	TRUE
397	13,4	FALSE	FALSE	TRUE	FALSE
398	60,1	FALSE	FALSE	TRUE	FALSE
399	55,7	FALSE	FALSE	TRUE	TRUE
400	82,3	TRUE	FALSE	FALSE	FALSE
401	43,7	FALSE	FALSE	TRUE	FALSE
402	57,3	FALSE	FALSE	TRUE	FALSE
403	55,9	FALSE	FALSE	TRUE	FALSE
404	95,7	TRUE	TRUE	TRUE	TRUE
405	5,2	FALSE	FALSE	TRUE	FALSE
406	45,9	FALSE	FALSE	TRUE	TRUE
407	76,3	FALSE	FALSE	TRUE	FALSE
408	76,5	FALSE	TRUE	FALSE	FALSE
409	55,4	FALSE	FALSE	TRUE	FALSE
410	74,1	FALSE	FALSE	TRUE	FALSE
411	99,9	TRUE	TRUE	TRUE	FALSE
412	61,3	FALSE	FALSE	TRUE	FALSE
413	46,2	FALSE	FALSE	TRUE	FALSE
414	74,9	FALSE	FALSE	TRUE	FALSE
415	61,2	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]
416	99,5	TRUE	TRUE	TRUE	FALSE
417	32,2	FALSE	FALSE	TRUE	TRUE
418	12,3	FALSE	FALSE	TRUE	TRUE
419	66,6	FALSE	TRUE	FALSE	FALSE
420	12,8	FALSE	FALSE	TRUE	FALSE
421	0,7	FALSE	FALSE	TRUE	FALSE
422	76,3	FALSE	FALSE	TRUE	FALSE
423	90,9	TRUE	TRUE	TRUE	FALSE
424	100,0	TRUE	FALSE	FALSE	TRUE
425	2,7	FALSE	FALSE	TRUE	FALSE
426	0,0	FALSE	FALSE	TRUE	TRUE
427	41,2	FALSE	FALSE	TRUE	FALSE
428	96,1	TRUE	TRUE	TRUE	FALSE
429	95,6	TRUE	TRUE	TRUE	FALSE
430	44,7	FALSE	TRUE	FALSE	FALSE
431	91,2	TRUE	TRUE	TRUE	FALSE
432	0,0	FALSE	FALSE	TRUE	FALSE
433	37,5	FALSE	FALSE	TRUE	FALSE
434	59,3	FALSE	FALSE	TRUE	FALSE
435	13,1	FALSE	FALSE	TRUE	FALSE
436	0,0	FALSE	FALSE	TRUE	FALSE
437	26,6	FALSE	FALSE	TRUE	FALSE
438	11,3	FALSE	FALSE	TRUE	FALSE
439	52,4	FALSE	FALSE	TRUE	TRUE
440	87,9	TRUE	TRUE	TRUE	FALSE
441	38,9	FALSE	FALSE	TRUE	FALSE
442	45,5	FALSE	FALSE	TRUE	FALSE
443	47,3	FALSE	FALSE	TRUE	FALSE
444	1,8	FALSE	FALSE	TRUE	FALSE
445	24,1	FALSE	FALSE	TRUE	FALSE
446	81,3	TRUE	TRUE	TRUE	FALSE
447	76,2	FALSE	FALSE	TRUE	FALSE
448	0,0	FALSE	FALSE	TRUE	FALSE
449	97,3	TRUE	TRUE	TRUE	FALSE
450	1,4	FALSE	FALSE	TRUE	FALSE
451	56,6	FALSE	FALSE	TRUE	TRUE
452	30,6	FALSE	FALSE	TRUE	FALSE
453	32,3	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]
454	43,5	FALSE	FALSE	TRUE	FALSE
455	24,9	FALSE	FALSE	TRUE	FALSE
456	78,5	FALSE	TRUE	FALSE	FALSE
457	31,4	FALSE	FALSE	TRUE	FALSE
458	0,0	FALSE	FALSE	TRUE	TRUE
459	0,0	FALSE	FALSE	TRUE	FALSE
460	0,0	FALSE	FALSE	TRUE	FALSE
461	0,0	FALSE	FALSE	TRUE	FALSE
462	0,0	FALSE	FALSE	TRUE	FALSE
463	0,0	FALSE	FALSE	TRUE	FALSE
464	0,0	FALSE	FALSE	TRUE	FALSE
465	0,0	FALSE	FALSE	TRUE	FALSE
466	0,0	FALSE	FALSE	TRUE	TRUE
467	0,0	FALSE	FALSE	TRUE	FALSE
468	0,0	FALSE	FALSE	TRUE	FALSE
469	0,0	FALSE	FALSE	TRUE	TRUE
470	0,0	FALSE	FALSE	TRUE	FALSE
471	0,0	FALSE	FALSE	TRUE	FALSE
472	0,0	FALSE	FALSE	TRUE	TRUE
473	0,0	FALSE	FALSE	TRUE	TRUE
474	0,0	FALSE	FALSE	TRUE	TRUE
475	0,0	FALSE	FALSE	TRUE	TRUE
476	0,0	FALSE	FALSE	TRUE	FALSE
477	0,0	FALSE	FALSE	TRUE	TRUE
478	0,0	FALSE	FALSE	TRUE	FALSE
479	2,9	FALSE	FALSE	TRUE	TRUE
480	0,0	FALSE	FALSE	TRUE	FALSE
481	0,0	FALSE	FALSE	TRUE	FALSE
482	0,0	FALSE	FALSE	TRUE	FALSE
483	0,0	FALSE	FALSE	TRUE	TRUE
484	0,0	FALSE	FALSE	TRUE	FALSE
485	0,0	FALSE	FALSE	TRUE	FALSE
486	0,0	FALSE	FALSE	TRUE	TRUE
487	0,0	FALSE	FALSE	TRUE	FALSE
488	0,0	FALSE	FALSE	TRUE	FALSE
489	0,0	FALSE	FALSE	TRUE	FALSE
490	0,0	FALSE	FALSE	TRUE	FALSE
491	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]
492	0,0	FALSE	FALSE	TRUE	TRUE
493	0,0	FALSE	FALSE	TRUE	TRUE
494	0,0	FALSE	FALSE	TRUE	TRUE
495	25,1	FALSE	FALSE	TRUE	TRUE
496	0,0	FALSE	FALSE	TRUE	FALSE
497	0,0	FALSE	FALSE	TRUE	FALSE
498	0,0	FALSE	FALSE	TRUE	FALSE
499	0,0	FALSE	FALSE	TRUE	FALSE
500	0,0	FALSE	FALSE	TRUE	TRUE
501	0,0	FALSE	FALSE	TRUE	TRUE
502	0,0	FALSE	FALSE	TRUE	TRUE
503	0,0	FALSE	FALSE	TRUE	TRUE
504	0,0	FALSE	FALSE	TRUE	FALSE
505	0,0	FALSE	FALSE	TRUE	FALSE
506	0,0	FALSE	FALSE	TRUE	FALSE
507	0,0	FALSE	FALSE	TRUE	FALSE
508	0,0	FALSE	FALSE	TRUE	FALSE
509	0,0	FALSE	FALSE	TRUE	TRUE
510	0,0	FALSE	FALSE	TRUE	FALSE
511	0,0	FALSE	FALSE	TRUE	TRUE
512	0,0	FALSE	FALSE	TRUE	FALSE
513	35,9	FALSE	FALSE	TRUE	TRUE
514	0,0	FALSE	FALSE	TRUE	FALSE
515	0,0	FALSE	FALSE	TRUE	FALSE
516	0,0	FALSE	FALSE	TRUE	TRUE
517	4,9	FALSE	FALSE	TRUE	TRUE
518	0,0	FALSE	FALSE	TRUE	FALSE
519	0,0	FALSE	FALSE	TRUE	FALSE
520	0,0	FALSE	FALSE	TRUE	FALSE
521	0,0	FALSE	FALSE	TRUE	FALSE
522	0,0	FALSE	FALSE	TRUE	FALSE
523	0,0	FALSE	FALSE	TRUE	FALSE
524	0,0	FALSE	FALSE	TRUE	FALSE
525	0,0	FALSE	FALSE	TRUE	TRUE
526	0,0	FALSE	FALSE	TRUE	FALSE
527	86,6	TRUE	FALSE	FALSE	TRUE
528	0,0	FALSE	FALSE	TRUE	FALSE
529	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]
530	0,0	FALSE	FALSE	TRUE	FALSE
531	0,0	FALSE	FALSE	TRUE	TRUE
532	0,0	FALSE	FALSE	TRUE	FALSE
533	0,0	FALSE	FALSE	TRUE	FALSE
534	0,0	FALSE	FALSE	TRUE	FALSE
535	0,0	FALSE	FALSE	TRUE	TRUE
536	0,0	FALSE	FALSE	TRUE	FALSE
537	0,0	FALSE	FALSE	TRUE	TRUE
538	51,9	FALSE	FALSE	TRUE	TRUE
539	92,1	TRUE	FALSE	FALSE	FALSE
540	32,5	FALSE	FALSE	TRUE	FALSE
541	61,2	FALSE	FALSE	TRUE	FALSE
542	59,4	FALSE	FALSE	TRUE	TRUE
543	57,8	FALSE	FALSE	TRUE	FALSE
544	51,1	FALSE	FALSE	TRUE	FALSE
545	20,2	FALSE	FALSE	TRUE	FALSE
546	57,8	FALSE	FALSE	TRUE	TRUE
547	49,6	FALSE	FALSE	TRUE	FALSE
548	0,0	FALSE	FALSE	TRUE	TRUE
549	64,6	FALSE	FALSE	TRUE	TRUE
550	45,0	FALSE	FALSE	TRUE	FALSE
551	98,5	TRUE	TRUE	TRUE	FALSE
552	8,2	FALSE	FALSE	TRUE	FALSE
553	7,0	FALSE	FALSE	TRUE	TRUE
554	32,3	FALSE	FALSE	TRUE	TRUE
555	81,6	TRUE	TRUE	TRUE	FALSE
556	31,9	FALSE	FALSE	TRUE	FALSE
557	89,0	TRUE	FALSE	FALSE	FALSE
558	31,0	FALSE	FALSE	TRUE	FALSE
559	25,9	FALSE	FALSE	TRUE	TRUE
560	54,7	FALSE	FALSE	TRUE	FALSE
561	57,2	FALSE	FALSE	TRUE	TRUE
562	0,0	FALSE	FALSE	TRUE	FALSE
563	6,8	FALSE	FALSE	TRUE	FALSE
564	0,0	FALSE	FALSE	TRUE	FALSE
565	75,8	FALSE	FALSE	TRUE	TRUE
566	2,6	FALSE	FALSE	TRUE	FALSE
567	9,5	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]
568	31,5	FALSE	FALSE	TRUE	TRUE
569	71,3	FALSE	FALSE	TRUE	FALSE
570	98,4	TRUE	TRUE	TRUE	FALSE
571	4,0	FALSE	FALSE	TRUE	FALSE
572	28,6	FALSE	FALSE	TRUE	TRUE
573	17,4	FALSE	FALSE	TRUE	TRUE
574	16,4	FALSE	FALSE	TRUE	TRUE
575	62,7	FALSE	FALSE	TRUE	FALSE
576	81,2	TRUE	FALSE	FALSE	TRUE
577	39,0	FALSE	FALSE	TRUE	TRUE
578	11,1	FALSE	FALSE	TRUE	FALSE
579	58,0	FALSE	FALSE	TRUE	FALSE
580	22,5	FALSE	FALSE	TRUE	TRUE
581	45,0	FALSE	FALSE	TRUE	TRUE
582	94,2	TRUE	TRUE	TRUE	TRUE
583	59,8	FALSE	FALSE	TRUE	FALSE
584	68,4	FALSE	FALSE	TRUE	TRUE
585	37,3	FALSE	FALSE	TRUE	TRUE
586	88,7	TRUE	TRUE	TRUE	TRUE
587	51,5	FALSE	FALSE	TRUE	FALSE
588	8,3	FALSE	FALSE	TRUE	FALSE
589	80,1	TRUE	FALSE	FALSE	FALSE
590	0,0	FALSE	FALSE	TRUE	FALSE
591	12,6	FALSE	FALSE	TRUE	TRUE
592	0,0	FALSE	FALSE	TRUE	FALSE
593	30,0	FALSE	FALSE	TRUE	TRUE
594	44,1	FALSE	FALSE	TRUE	FALSE
595	76,0	FALSE	FALSE	TRUE	FALSE
596	88,2	TRUE	TRUE	TRUE	TRUE
597	16,5	FALSE	FALSE	TRUE	TRUE
598	16,5	FALSE	FALSE	TRUE	TRUE
599	97,6	TRUE	TRUE	TRUE	FALSE
600	79,0	FALSE	FALSE	TRUE	TRUE
601	57,0	FALSE	FALSE	TRUE	TRUE
602	8,5	FALSE	FALSE	TRUE	FALSE
603	28,0	FALSE	FALSE	TRUE	FALSE
604	20,9	FALSE	FALSE	TRUE	TRUE
605	87,0	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]
606	0,0	FALSE	FALSE	TRUE	TRUE
607	4,6	FALSE	FALSE	TRUE	FALSE
608	28,1	FALSE	FALSE	TRUE	FALSE
609	70,1	FALSE	FALSE	TRUE	TRUE
610	70,2	FALSE	FALSE	TRUE	TRUE
611	4,8	FALSE	FALSE	TRUE	FALSE
612	3,9	FALSE	FALSE	TRUE	FALSE
613	31,2	FALSE	FALSE	TRUE	TRUE
614	84,7	TRUE	TRUE	TRUE	TRUE
615	15,4	FALSE	FALSE	TRUE	TRUE
616	0,0	FALSE	FALSE	TRUE	FALSE
617	15,5	FALSE	FALSE	TRUE	TRUE