

**Appendix 1**

**Quadrat Data**

<b>Site Name</b>	<b>Site Survey Code</b>	<b>County</b>	<b>Page Number</b>
Lisfannon Beach	WAW16	Donegal	1
Rosguill	WAW17	Donegal	17
Gola Island	WAW18	Donegal	27
Malainn Bhig	WAW19	Donegal	47
Elly Beach	WAW20	Mayo	60
Inishkea South Island	WAW21	Mayo	71
Scattery Island	WAW22	Clare	89
Castlegregory Beach	WAW23	Kerry	107
Brandon Point	WAW24	Kerry	122
Blasket Interpretation Centre	WAW25	Kerry	134
Rossbeigh Strand	WAW26	Kerry	144
Mountain Stage	WAW27	Kerry	168
Dooneen	WAW28	Cork	180
Garnish Point	WAW29	Cork	196
Barley Cove	WAW30	Cork	214



**Quadrat Number:** 1  
**Photograph Numbers**  
 1218-1222  
**Easting** 633303  
**Northing** 928154  
**Survey Date** 05/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Sand  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** Flat  
**Aspect** NA

**Quadrat Description**

Sandy area at top if beach between large rock boulders. Robust habitat. No evidence of visitor impacts.

**Quadrats Comments**

Sandy seashore below rocks.

**Habitat Type (Fossitt (2000))**

LS2 Sandshores

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** None

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	100
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	0	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	0

Species Latin Name	Species English Name	Species cover (Domin)
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No floral observations were made		
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**General Fauna Observations**

Various sea shells and sea urchin (Sea potatoe - Echinocardium cordatum)



**Quadrat Number:** 2

**Photograph Numbers**

1224-1228

**Easting** 633254

**Northing** 928038

**Survey Date** 05/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Flat

**Aspect** NA

**Quadrat Description**

Area at top of beach adjacent to boulders at edge of car park. Robust habitat. No evidence of visitor impacts.

**Quadrats Comments**

Adjacent to placed boulders to stop erosion of access road to beach area.

**Habitat Type (Fossitt (2000))**

LS2 Sandshores

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** None

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	20
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	80
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 0 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 0

<b>Species Latin Name</b>	<b>Species English Name</b>	<b>Species cover (Domin)</b>
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No floral observations were made

**General Fauna Observations**

Mermaids purse (ray)



**Quadrat Number:** 3  
**Photograph Numbers**  
 1233-1237  
**Easting** 633093  
**Northing** 927813  
**Survey Date** 05/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Sand  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** None  
**Aspect** NA

**Quadrat Description**

Eroded sand path through marram dunes. Main access track to beach from car park. Track not surfaced. Result of visitor impacts.

**Quadrats Comments**

Level of path below adjacent dunes.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Track through Marram dunes

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** Below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** None

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	5	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	5	<b>Bare peat / Soil cover</b>	95
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 25

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 25

Species Latin Name	Species English Name	Species cover (Domin)
Ammophila arenaria	Marram	4

**General Fauna Observations**

None



**Quadrat Number:** 4

**Photograph Numbers**

1239-1243

**Easting** 633106

**Northing** 927833

**Survey Date** 05/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** Na

**Slope Degrees** None

**Aspect** NA

**Quadrat Description**

Intact area of marram dunes 20 m inland from embryonic fore dunes. No obvious visitor impacts.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Marram dunes

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** No surface water features close by. Dry dune area.

**Quadrat Landuse** None

**Quadrat Grazing** None

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	35	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	35	<b>Bare peat / Soil cover</b>	65
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	100	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	100

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	6
<i>Senecio jacobaea</i>	Common Ragwort	+

**General Fauna Observations**

None



**Quadrat Number:** 5  
**Photograph Numbers**  
 1244-1248  
**Easting** 633096  
**Northing** 927774  
**Survey Date** 05/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Sand  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** 15  
**Aspect** North-West

**Quadrat Description**

Area of low dunes, near summit. Complete cover of vegetation. No obvious visitor impacts. Desire line 3m to west. Area used extensively by dog walkers.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Intact dune.

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** No surface water features close by. Dry dune area.

**Quadrat Landuse** None

**Quadrat Grazing** None

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	75	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	80	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	80



Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	6
<i>Anthyllis vulneraria</i>	Kidney Vetch	4
<i>Festuca rubra</i>	Red Fescue	6
<i>Holcus lanatus</i>	Yorkshire-fog	3
<i>Hypochaeris radicata</i>	Cat's-ear	2
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	1
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	8
<i>Polygala vulgaris</i>	Common Milkwort	1
<i>Senecio jacobaea</i>	Common Ragwort	3
<i>Taraxacum</i> agg.	Dandelion	4

**General Fauna Observations**

None



**Quadrat Number:** 6

**Photograph Numbers**

1250-1254

**Easting** 633090

**Northing** 927743

**Survey Date** 05/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** Flat

**Aspect** NA

**Quadrat Description**

Along unsurfaced path through dunes heavily trampled by visitors. Bare sand in parts where turf is worn away.

**Quadrats Comments**

Within fixed dune area, heavily trampled causing bare sand to be exposed and reduction in sward height.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Track in fixed dunes

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** below surface

**Comments on Hydrology** No surface water features close by.

**Quadrat Landuse** Recreation

**Quadrat Grazing** Rabbits

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	50	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	50	<b>Bare peat / Soil cover</b>	50
<b>Bryophyte cover</b>	<5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	10	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	10

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	5
<i>Anthyllis vulneraria</i>	Kidney Vetch	4
<i>Festuca rubra</i>	Red Fescue	5
<i>Leontodon autumnalis</i>	Marsh Hawk's-beard	3
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	3

**General Fauna Observations**

Rabbits



**Quadrat Number:** 7

**Photograph Numbers**

1259-1263

**Easting** 633040

**Northing** 927717

**Survey Date** 05/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** Unknown

**Slope Degrees** 5

**Aspect** South

**Quadrat Description**

Low vegetation cover as typical of fore dunes. No obvious visitor impacts.

**Quadrats Comments**

Lowlying area just landward side of front dune ridge. Unstable shifting dune area.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Fore dune area

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** No surface water features close by. Dry dune area.

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	20	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	20	<b>Bare peat / Soil cover</b>	80
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	30	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	30

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	3
<i>Ammophila arenaria</i>	Marram	3
<i>Elytrigia juncea</i> subsp. <i>boreoatlantica</i>	Sand Couch	6
<i>Sonchus</i> spp.	Thistle	+

**General Fauna Observations**

Pointed snail - *Cochlichella acuta*.



**Quadrat Number:** 8

**Photograph Numbers**

1266-1270

**Easting** 633054

**Northing** 927662

**Survey Date** 05/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** 0

**Aspect** South

**Quadrat Description**

Intact fixed marram dunes, quadrat located on top of dune ridge. No visitor impacts.

**Quadrats Comments**

Parallel paths in hollows to east and west of ridge.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Fixed dune ridge towards landward side of dune complex.

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** No surface water features nearby

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	40	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	45	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	45

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	3
<i>Anthyllis vulneraria</i>	Kidney Vetch	5
<i>Calliergonella cuspidata</i>	Pointed Spear Moss	5
<i>Festuca rubra</i>	Red Fescue	8
Grass – unidentified	Grass – unidentified	4
<i>Holcus lanatus</i>	Yorkshire-fog	3
<i>Leontodon autumnalis</i>	Marsh Hawk's-beard	3
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	5
<i>Senecio jacobaea</i>	Common Ragwort	2
<i>Taraxacum</i> agg.	Dandelion	1

### General Fauna Observations

Heath snail - *Helicella itala*.



**Quadrat Number:** 9  
**Photograph Numbers**  
 1272-1276  
**Easting** 633127  
**Northing** 927769  
**Survey Date** 05/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Sand  
**Stability** Very firm  
**Substrate Depth** Unknown  
**Slope Degrees** 0  
**Aspect** North

**Quadrat Description**

Closeby carpark, heavy pedestrian traffic and visitor impact. Signs of enrichment.

**Quadrats Comments**

Quadrat located on unsurfaced path leading from car park, raised dune area with grass dominated vegetation. Dune slack occurs to east.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Grassy path

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** Below surface  
**Comments on Hydrology** Dune slack hollow to east.

**Quadrat Landuse** Recreation  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	75	<b>Litter cover</b>	10
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	60	<b>Bare peat / Soil cover</b>	25
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	25	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	25



Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	3
<i>Festuca rubra</i>	Red Fescue	5
<i>Lolium perenne</i>	Perennial Rye-grass	5
<i>Plantago lanceolata</i>	Ribwort Plantain	1
<i>Poa annua</i>	Annual Meadow-grass	3
<i>Senecio jacobaea</i>	Common Ragwort	3
<i>Taraxacum</i> agg.	Dandelion	3
<i>Trifolium repens</i>	White Clover	7

**General Fauna Observations**

None



**Quadrat Number:** 1  
**Photograph Numbers**  
 1176-1180  
**Easting** 609873  
**Northing** 942296  
**Survey Date** 05/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Made Ground  
**Stability** Very firm  
**Substrate Depth** na  
**Slope Degrees** 5  
**Aspect** North

**Quadrat Description**

Area of made ground on seaward side of stone wall by car park. No evidence of visitor impact, however, quite a bit of rubbish and domestic refuse dumped in area beside fence. Does not appear to be sheep grazed.

**Quadrats Comments**

Fenced off with new fence from adjacent rough grazing on heathland.

**Habitat Type (Fossitt (2000))**

GS2 Dry meadows and grassy verges

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Made ground, rough grassland near car park

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** None  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	25
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	35	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	35

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	3
<i>Arrhenatherum elatius</i>	False Oat-grass	2
<i>Cerastium fontanum</i>	Common Mouse-ear	1
<i>Cirsium vulgare</i>	Spear Thistle	1
<i>Cynosurus cristatus</i>	Crested Dog's-tail	3
<i>Dactylis glomerata</i>	Cock's-foot	5
<i>Festuca rubra</i>	Red Fescue	5
<i>Holcus lanatus</i>	Yorkshire-fog	5
<i>Plantago lanceolata</i>	Ribwort Plantain	5
<i>Ranunculus repens</i>	Creeping Buttercup	4
<i>Rumex acetosa</i>	Common Sorrel	1
<i>Rumex crispus</i>	Curled dock	1
<i>Taraxacum</i> agg.	Dandelion	3
<i>Trifolium repens</i>	White Clover	3

**General Fauna Observations**

None



**Quadrat Number:** 2

**Photograph Numbers**

1181-1185

**Easting** 609870

**Northing** 942272

**Survey Date** 05/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 15

**Aspect** North

**Quadrat Description**

Heathland area 2.5m from road with visitor trackway in centre. Evidence of heavy visitor /sheep use resulting in erosion in centre of track. Area probably sheep grazed.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

HH3 Wet heath

**EU Habitat Type**

Wet Heath [4010]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Track through heathland

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Below surface

**Comments on Hydrology** Damp peaty soil

**Quadrat Landuse** Recreation/Grazing

**Quadrat Grazing** Area grazed by sheep

**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	80	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	15	<b>Rock cover</b>	5
<b>Herb Grass cover</b>	70	<b>Bare peat / Soil cover</b>	20
<b>Bryophyte cover</b>	10	<b>Open Water cover</b>	0

**Height of vegetation cm** 10      **Height Shrub layer cm** 10

**Height Tree layer cm** 0      **Height Herb layer cm** 3

Species Latin Name	Species English Name	Species cover (Domin)
<i>Calluna vulgaris</i>	Ling Heather	4
<i>Erica cinerea</i>	Bell Heather	4
<i>Erica tetralix</i>	Cross-leaved Heath	4
<i>Hylocomium splendens</i>	Red Feather Moss	4
<i>Hypnum jutlandicum</i>	Moss	4
<i>Luzula sylvatica</i>	Great Wood-rush	+
<i>Nardus stricta</i>	Mat-grass	6
<i>Plantago maritima</i>	Sea Plantain	4
<i>Polygala serpyllifolia</i>	Heath Milkwort	1
<i>Potentilla erecta</i>	Tormentil	3
Sedge – unidentified	Sedge – unidentified	3
<i>Trifolium repens</i>	White Clover	3

**General Fauna Observations**

None



**Quadrat Number:** 3

**Photograph Numbers**

1186-1190

**Easting** 609868

**Northing** 942259

**Survey Date** 05/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Peat

**Stability** Very firm

**Substrate Depth** <15

**Slope Degrees** 20

**Aspect** North

**Quadrat Description**

Area of eroded wet heath on slope above road. Significant erosion likely to have been caused by past grazing. Visitor access likely to accentuate impacts.

**Quadrats Comments**

Unclear whether visitor impact is causing damage or general past sheep grazing/burning/erosion. Similar areas along road around headland where no cars can stop.

**Habitat Type (Fossitt (2000))**

HH3 Wet heath

**EU Habitat Type**

Wet Heath [4010]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Heathland with exposed rocks

**Quadrat Condition**

5 - Bad

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Grazing - sheep  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	30	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	25	<b>Rock cover</b>	20
<b>Herb Grass cover</b>	10	<b>Bare peat / Soil cover</b>	50
<b>Bryophyte cover</b>	5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	5	<b>Height Shrub layer cm</b>	5
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	2

Species Latin Name	Species English Name	Species cover (Domin)
Agrostis sp.		2
Calluna vulgaris	Ling Heather	5
Carex panicea	Carnation Sedge	4
Cladonia sp.	Lichen	1
Composite sp.		1
Crustose lichen	Lichen	3
Erica cinerea	Bell Heather	3
Erica tetralix	Cross-leaved Heath	3
Hypnum jutlandicum	Moss	3
Lotus corniculatus	Common Bird's-foot-trefoil	3
Nardus stricta	Mat-grass	4
Pedicularis sylvatica	Lousewort	+
Plantago maritima	Sea Plantain	2
Potentilla erecta	Tormentil	2
Scapania sp.		3
Sphagnum sp.	Sphagnum moss	3

**General Fauna Observations**

None



**Quadrat Number:** 4

**Photograph Numbers**

1191-1195

**Easting** 609861

**Northing** 942238

**Survey Date** 05/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Peat

**Stability** Very firm

**Substrate Depth** Shallow

**Slope Degrees** 10

**Aspect** North

**Quadrat Description**

Area of intact heathland on slope above road. In good condition. No evidence of negative impacts from sheep or visitors.

**Quadrats Comments**

Low growing even sward.

**Habitat Type (Fossitt (2000))**

HH3 Wet heath

**EU Habitat Type**

Wet Heath [4010]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Heathland

**Quadrat Condition**

1 - Good

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Grazing - sheep
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	100	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	20	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	25	<b>Height Shrub layer cm</b>	25
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	25



Species Latin Name	Species English Name	Species cover (Domin)
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	1
<i>Calluna vulgaris</i>	Ling Heather	10
<i>Carex binervis</i>	Green-ribbed Sedge	3
<i>Carex panicea</i>	Carnation Sedge	4
<i>Erica cinerea</i>	Bell Heather	2
<i>Erica tetralix</i>	Cross-leaved Heath	2
<i>Hypnum jutlandicum</i>	Moss	3
<i>Hypochaeris radicata</i>	Cat's-ear	1
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	3
<i>Pleurozium schreberi</i>	Red-stemmed Feather Moss	4
<i>Potentilla erecta</i>	Tormentil	3

**General Fauna Observations**

None



**Quadrat Number:** 5  
**Photograph Numbers**  
 1197-1201  
**Easting** 609861  
**Northing** 942204  
**Survey Date** 05/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Peat  
**Stability** Very firm  
**Substrate Depth** 10  
**Slope Degrees** <5  
**Aspect** North

**Quadrat Description**

Area of heathland showing negative impacts likely to be from sheep grazing. No obvious visitor impacts.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

HH3 Wet heath

**EU Habitat Type**

Wet Heath [4010]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Heathland

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Grazing - sheep  
**Quadrat Grazing** Area severly grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	70	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	30	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	65	<b>Bare peat / Soil cover</b>	30
<b>Bryophyte cover</b>	5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	20	<b>Height Shrub layer cm</b>	15
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	20

Species Latin Name	Species English Name	Species cover (Domin)
<i>Calluna vulgaris</i>	Ling Heather	5
<i>Carex binervis</i>	Green-ribbed Sedge	4
<i>Carex panicea</i>	Carnation Sedge	5
<i>Cladonia portentosa</i>	Branching Lichen	1
Crustose lichen	Lichen	1
<i>Erica tetralix</i>	Cross-leaved Heath	4
<i>Leucobryum glaucum</i>	Cushion Moss	4
<i>Nardus stricta</i>	Mat-grass	5
<i>Pedicularis sylvatica</i>	Lousewort	+
<i>Potentilla erecta</i>	Tormentil	3
<i>Scapania</i> sp.		3
<i>Selaginella selaginoides</i>	Lesser Clubmoss	2
<i>Sphagnum auriculatum</i>	Sphagnum moss	3
<i>Succisa pratensis</i>	Devil's-bit Scabious	4

**General Fauna Observations**

None



**Quadrat Number:** 1  
**Photograph Numbers**  
 1070-1074  
**Easting** 577052  
**Northing** 926531  
**Survey Date** 04/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Mineral Soil /  
**Stability** Firm  
**Substrate Depth**  
**Slope Degrees** <5  
**Aspect** North

**Quadrat Description**

Wet grassland track trampled by people and farm machines. Localised minimal damage. Robust habitat.

**Quadrats Comments**

Grassland track.

**Habitat Type (Fossitt (2000))**

GS4 Wet grassland

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Grassy unpaved path

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Near surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Recreation  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	15
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	5
<b>Bryophyte cover</b>	5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	15	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	15

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	5
<i>Eurhynchium striatum</i>	Common striated feather moss	4
<i>Festuca rubra</i>	Red Fescue	4
<i>Holcus lanatus</i>	Yorkshire-fog	5
<i>Juncus effusus</i>	Soft-rush	4
<i>Poa pratensis</i>	Smooth Meadow-grass	4
<i>Potentilla anserina</i>	Silverweed	5
<i>Ranunculus repens</i>	Creeping Buttercup	5
Sedge – unidentified	Sedge – unidentified	5
<i>Trifolium repens</i>	White Clover	3

**General Fauna Observations**

None



**Quadrat Number:** 2  
**Photograph Numbers**  
 1075-1079  
**Easting** 577051  
**Northing** 926525  
**Survey Date** 04/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Mineral Soil  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** <5  
**Aspect** East

**Quadrat Description**

Wet grassland area on slight east facing slope. No visitor impacts. Probably grazed by sheep on occasions.

**Quadrats Comments**

Rank rassland community.

**Habitat Type (Fossitt (2000))**

GS4 Wet grassland

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Grassland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Grazing - sheep  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	15
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	50	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	50

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	8
<i>Cirsium arvense</i>	Creeping Thistle	2
<i>Epilobium</i> sp.	Willow Herb	3
<i>Holcus lanatus</i>	Yorkshire-fog	5
<i>Juncus effusus</i>	Soft-rush	5
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	3
<i>Potentilla anserina</i>	Silverweed	5
<i>Ranunculus repens</i>	Creeping Buttercup	4
Sedge – unidentified	Sedge – unidentified	2

**General Fauna Observations**

None



**Quadrat Number:** 3

**Photograph Numbers**

1080-1084

**Easting** 577180

**Northing** 926501

**Survey Date** 04/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** East

**Quadrat Description**

On track down to beach, unsurfaced. Grazed by sheep. Light visitor trampling.

**Quadrats Comments**

Grassland near dunes.

**Habitat Type (Fossitt (2000))**

GS4 Wet grassland

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Grassland

**Quadrat Condition**

2 - Fair

<b>Water Table Depth cm</b>	Beliw surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Grazing - sheep
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	10
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	30	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	30



Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	4
<i>Cirsium arvense</i>	Creeping Thistle	1
<i>Festuca rubra</i>	Red Fescue	5
<i>Holcus lanatus</i>	Yorkshire-fog	8
<i>Juncus effusus</i>	Soft-rush	3
<i>Potentilla anserina</i>	Silverweed	7
<i>Ranunculus repens</i>	Creeping Buttercup	5
<i>Trifolium repens</i>	White Clover	3

**General Fauna Observations**

None



**Quadrat Number:** 4

**Photograph Numbers**

1085-1089

**Easting** 577241

**Northing** 926495

**Survey Date** 04/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** East

**Quadrat Description**

Unpaved track through Ammophila dunes, showing minor visitor trampling. No bare sand. Probably caused by sheep.

**Quadrats Comments**

Reduced ammophila due to trampling.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Grassy path in marram dunes

**Quadrat Condition**

2 - Fair

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Recreation/Grazing
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	95	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	5
<b>Herb Grass cover</b>	95	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	10	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	25	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	25

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	3
<i>Ammophila arenaria</i>	Marram	4
<i>Carex arenaria</i>	Sand Sedge	4
<i>Cerastium fontanum</i>	Common Mouse-ear	3
<i>Dactylis glomerata</i>	Cock's-foot	2
<i>Festuca rubra</i>	Red Fescue	7
<i>Galium saxatile</i>	Heath Bedstraw	3
<i>Galium verum</i>	Lady's Bedstraw	3
Grass – unidentified	Grass – unidentified	3
<i>Holcus lanatus</i>	Yorkshire-fog	3
<i>Rhytiadelphus squarrosus</i>	Springy Turf-Moss	6
<i>Trifolium repens</i>	White Clover	7

**General Fauna Observations**

None



**Quadrat Number:** 5  
**Photograph Numbers**  
 1090-1094  
**Easting** 577247  
**Northing** 926477  
**Survey Date** 04/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Sand  
**Stability** Very firm  
**Substrate Depth** na  
**Slope Degrees** 5  
**Aspect** North

**Quadrat Description**

Ammophila dunes located above north facing sandy beach. 30m from beach. No visitor impact, no grazing evidence.

**Quadrats Comments**

Tombolo.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Marram dunes

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** Dry dune area.

**Quadrat Landuse** None  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	75
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	75	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	75

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	4
<i>Ammophila arenaria</i>	Marram	9
<i>Arrhenatherum elatius</i>	False Oat-grass	2
<i>Cerastium fontanum</i>	Common Mouse-ear	+
<i>Dactylis glomerata</i>	Cock's-foot	5
<i>Festuca rubra</i>	Red Fescue	6
<i>Galium verum</i>	Lady's Bedstraw	5
Grass – unidentified	Grass – unidentified	3
<i>Urtica dioica</i>	Common Nettle	1

**General Fauna Observations**

None



**Quadrat Number:** 6

**Photograph Numbers**

1097-1101

**Easting** 577290

**Northing** 926395

**Survey Date** 04/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** West

**Quadrat Description**

Grassland area at edge of dunes. Grazed by sheep. No visitor impacts noted.

**Quadrats Comments**

May be partially improved.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Edge of marram dunes

**Quadrat Condition**

1 - Good

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Grazing - sheep
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0
<b>Height of vegetation cm</b>	100	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	100

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	3
<i>Ammophila arenaria</i>	Marram	2
<i>Cerastium fontanum</i>	Common Mouse-ear	3
<i>Cirsium arvense</i>	Creeping Thistle	+
<i>Dactylis glomerata</i>	Cock's-foot	6
<i>Festuca rubra</i>	Red Fescue	8
<i>Galium saxatile</i>	Heath Bedstraw	3
<i>Galium verum</i>	Lady's Bedstraw	3
Liverwort leafy		3
<i>Odontites vernus</i>	Red Bartsia	2
Sedge – unidentified	Sedge – unidentified	3
<i>Taraxacum</i> agg.	Dandelion	+
<i>Trifolium repens</i>	White Clover	6

**General Fauna Observations**

None



**Quadrat Number:** 7

**Photograph Numbers**

1134-1138

**Easting** 576466

**Northing** 926965

**Survey Date** 04/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand /

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Flat

**Aspect** NA

**Quadrat Description**

Grassland area between lake and rocky storm beach to west. Sheep grazed. No visitor damage, although there are a number of fire sites in the wider area on similar habitat.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Grassy community

**Quadrat Condition**

1 - Good

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Grazing - sheep
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	10	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	10	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	10



Species Latin Name	Species English Name	Species cover (Domin)
Agrostis sp.		3
Anthoxanthum odoratum	Sweet Vernal-grass	3
Armeria maritima	Thrift	4
Bellis perennis	Daisy	3
Calliergonella cuspidata	Pointed Spear Moss	6
Carex arenaria	Sand Sedge	3
Carex flacca	Glaucous Sedge	3
Cerastium fontanum	Common Mouse-ear	3
Cirsium sp.	Thistle	2
Festuca rubra	Red Fescue	8
Holcus lanatus	Yorkshire-fog	5
Leafy liverwort		3
Leontodon autumnalis	Marsh Hawk's-beard	4
Lotus corniculatus	Common Bird's-foot-trefoil	3
Plantago coronopus	Buck's-horn Plantain	4
Plantago lanceolata	Ribwort Plantain	4
Plantago maritima	Sea Plantain	3
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	3
Prunella vulgaris	Selfheal	3
Rhytidiadelphus squarrosus	Springy Turf-Moss	4
Trifolium repens	White Clover	4

### General Fauna Observations

Heath snail - *Helicella itala*, Rabbit



**Quadrat Number:** 8  
**Photograph Numbers**  
 1139-1143  
**Easting** 576515  
**Northing** 927001  
**Survey Date** 04/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Mineral Soil  
**Stability** Very firm  
**Substrate Depth** na  
**Slope Degrees** Flat  
**Aspect** NA

**Quadrat Description**

Unpaved desire line just beyond area where two paths coalesce. Near a series of camp fire sites. Central part of track shows minimal trampling damage from visitors but no bare soil. Area grazed by sheep.

**Quadrats Comments**

On open grassy area between lake and beach.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Grassy path

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Recreation/Grazing  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	10	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	2-10	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	2-10

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	4
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	4
<i>Bellis perennis</i>	Daisy	3
<i>Cardamine pratensis</i>	Cuckooflower	3
<i>Carex flacca</i>	Glaucous Sedge	4
<i>Cerastium fontanum</i>	Common Mouse-ear	2
<i>Cynosurus cristatus</i>	Crested Dog's-tail	4
<i>Festuca rubra</i>	Red Fescue	7
<i>Galium saxatile</i>	Heath Bedstraw	3
<i>Holcus lanatus</i>	Yorkshire-fog	4
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	3
<i>Leontodon autumnalis</i>	Marsh Hawk's-beard	5
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	3
<i>Luzula</i> sp.		2
<i>Plantago lanceolata</i>	Ribwort Plantain	5
<i>Prunella vulgaris</i>	Selfheal	3
<i>Ranunculus repens</i>	Creeping Buttercup	2
<i>Rhytidiadelphus squarrosus</i>	Springy Turf-Moss	3
Sedge – unidentified	Sedge – unidentified	3
<i>Trifolium repens</i>	White Clover	5

**General Fauna Observations**

None



**Quadrat Number:** 9  
**Photograph Numbers**  
 1144-1148  
**Easting** 576652  
**Northing** 927031  
**Survey Date** 04/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Peat  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** 10  
**Aspect** South

**Quadrat Description**

Unsurfaced path through area of wet heath. Significant areas of bare eroded peat caused by visitors trampling along pathway. Sheep grazed area.

**Quadrats Comments**

Surrounding heathland low growing and in good condition.

**Habitat Type (Fossitt (2000))**

HH3 Wet heath

**EU Habitat Type**

Wet Heath [4010]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Track on wet heath

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** Near surface

**Comments on Hydrology** Wet damp peaty area

**Quadrat Landuse** Recreation/Grazing  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	30	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	10	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	30	<b>Bare peat / Soil cover</b>	70
<b>Bryophyte cover</b>	5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	2-10	<b>Height Shrub layer cm</b>	10
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	2-10

Species Latin Name	Species English Name	Species cover (Domin)
Anagallis tenella	Bog Pimpernel	3
Calluna vulgaris	Ling Heather	5
Carex panicea	Carnation Sedge	4
Eleocharis multicaulis	Many-stalked Spike-rush	4
Erica tetralix	Cross-leaved Heath	4
Nardus stricta	Mat-grass	5
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	3
Potentilla erecta	Tormentil	3
Sphagnum auriculatum	Sphagnum moss	3
Succisa pratensis	Devil's-bit Scabious	3

**General Fauna Observations**

None



**Quadrat Number:** 10

**Photograph Numbers**

1150-1154

**Easting** 576652

**Northing** 927034

**Survey Date** 04/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Peat

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** 10

**Aspect** South

**Quadrat Description**

Arsa of intact wet heath on moderate slope dominated by Calluna. Sheep grazed. No visitor impact.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

HH3 Wet heath

**EU Habitat Type**

Wet Heath [4010]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Heathland

**Quadrat Condition**

1 - Good

<b>Water Table Depth cm</b>	Near surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Grazing - sheep
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	60
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	80	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	50	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	35	<b>Height Shrub layer cm</b>	35
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	35

Species Latin Name	Species English Name	Species cover (Domin)
<i>Calluna vulgaris</i>	Ling Heather	9
<i>Carex flacca</i>	Glaucous Sedge	3
<i>Carex panicea</i>	Carnation Sedge	4
<i>Cirsium dissectum</i>	Meadow Thistle	1
<i>Erica tetralix</i>	Cross-leaved Heath	5
<i>Eriophorum angustifolium</i>	Common Cottongrass	4
<i>Hypochaeris radicata</i>	Cat's-ear	1
<i>Nardus stricta</i>	Mat-grass	4
<i>Potentilla erecta</i>	Tormentil	3
<i>Succisa pratensis</i>	Devil's-bit Scabious	3

**General Fauna Observations**

None



**Quadrat Number:** 1

**Photograph Numbers**

sam 971-975

**Easting** 549773

**Northing** 879925

**Survey Date** 03/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** South

**Quadrat Description**

Quadrat adjacent to picnic table with evidence of trampling and bare soil caused by visitors.

**Quadrats Comments**

Grassland community, impacted.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Made ground with grassland by picnic table

**Quadrat Condition**

2 - Fair

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present. Well drained

<b>Quadrat Landuse</b>	Recreation/Grazing
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	70	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	70	<b>Bare peat / Soil cover</b>	30
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	2	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	2



Species Latin Name	Species English Name	Species cover (Domin)
<i>Achillea millefolium</i>	Yarrow	3
<i>Bellis perennis</i>	Daisy	4
<i>Cynosurus cristatus</i>	Crested Dog's-tail	4
<i>Festuca rubra</i>	Red Fescue	5
<i>Lolium perenne</i>	Perennial Rye-grass	4
<i>Plantago coronopus</i>	Buck's-horn Plantain	1
<i>Plantago lanceolata</i>	Ribwort Plantain	5
<i>Poa annua</i>	Annual Meadow-grass	4
<i>Sagina procumbens</i>	Procumbent Pearlwort	3
Sedge – unidentified	Sedge – unidentified	4
<i>Taraxacum</i> agg.	Dandelion	2
<i>Trifolium repens</i>	White Clover	4

**General Fauna Observations**

None



**Quadrat Number:** 2

**Photograph Numbers**

976-980

**Easting** 549737

**Northing** 879883

**Survey Date** 03/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** level

**Aspect** NA

**Quadrat Description**

Level sheep grazed area on cliff top adjacent to fence.

**Quadrats Comments**

No obvious visitors impacts.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Grassland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Grazing - sheep  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	4	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	4

Species Latin Name	Species English Name	Species cover (Domin)
Achillea millefolium	Yarrow	4
Bellis perennis	Daisy	3
Cerastium fontanum	Common Mouse-ear	2
Festuca rubra	Red Fescue	5
Plantago major	Greater Plantain	4
Poa annua	Annual Meadow-grass	9
Sedge – unidentified	Sedge – unidentified	3
Taraxacum agg.	Dandelion	2
Trifolium repens	White Clover	3

**General Fauna Observations**

Chough



**Quadrat Number:** 3

**Photograph Numbers**

981-985

**Easting** 549789

**Northing** 879935

**Survey Date** 03/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 10

**Aspect** South

**Quadrat Description**

Sheep grazed area at top of cliff. Some sheep terraces above releve. Sheep droppings in quadrat.

**Quadrats Comments**

No evidence of visitor impacts.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Grassland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Grazing - sheep

**Quadrat Grazing** Area grazed by sheep

**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	2	<b>Open Water cover</b>	0

**Height of vegetation cm** 2                      **Height Shrub layer cm** 0

**Height Tree layer cm** 0                      **Height Herb layer cm** 2

Species Latin Name	Species English Name	Species cover (Domin)
<i>Bellis perennis</i>	Daisy	2
<i>Cardamine pratensis</i>	Cuckooflower	3
<i>Cirsium</i> sp.		2
<i>Cynosurus cristatus</i>	Crested Dog's-tail	6
<i>Festuca rubra</i>	Red Fescue	5
<i>Plantago coronopus</i>	Buck's-horn Plantain	1
<i>Plantago lanceolata</i>	Ribwort Plantain	1
<i>Pleurocarpus</i> moss – unidentified	<i>Pleurocarpus</i> moss – unidentified	2
<i>Poa annua</i>	Annual Meadow-grass	3
<i>Prunella vulgaris</i>	Selfheal	4
<i>Rumex acetosa</i>	Common Sorrel	4
Sedge – unidentified	Sedge – unidentified	3
<i>Taraxacum</i> agg.	Dandelion	2
<i>Trifolium repens</i>	White Clover	5

**General Fauna Observations**

None



**Quadrat Number:** 4

**Photograph Numbers**

986-990

**Easting** 549810

**Northing** 879917

**Survey Date** 03/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** South

**Quadrat Description**

Grassland area but with significant area of bare soil in front of visitor bence. 1m from concrete path down to beach. Sheep grazed. Litter present and possible human faeces. No toilet facilities in car park.

**Quadrats Comments**

Significant visitors impacts.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Made ground

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation/Grazing

**Quadrat Grazing** Area grazed by sheep

**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	30	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	30	<b>Bare peat / Soil cover</b>	70
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 4 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 4

Species Latin Name	Species English Name	Species cover (Domin)
Cynosurus cristatus	Crested Dog's-tail	2
Poa annua	Annual Meadow-grass	6
Taraxacum agg.	Dandelion	2

**General Fauna Observations**

None



**Quadrat Number:** 5  
**Photograph Numbers**  
 1001-1006  
**Easting** 549819  
**Northing** 879868  
**Survey Date** 03/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Sand  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** none  
**Aspect** NA

**Quadrat Description**

Area of sandy beach at base of stairs to and from car park. No evidence of visitor impacts. Robust habitat.

**Quadrats Comments**

Sandy beach, no obvious visitors impacts.

**Habitat Type (Fossitt (2000))**

LS2 Sandshores

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm** below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** None

**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	15	<b>Litter cover</b>	15
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	20
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	65
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 0 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 0

Species Latin Name	Species English Name	Species cover (Domin)
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No floral observations were made

**General Fauna Observations**

None





**Quadrat Number:** 6

**Photograph Numbers**

1013-1017

**Easting** 549804

**Northing** 879873

**Survey Date** 03/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 10

**Aspect** South

**Quadrat Description**

Sloped area near base of boulder clay and rock cliffs. Grazed by sheep. 5m above sand beach. Shear mud cliff to beach. No visitor impacts.

**Quadrats Comments**

Terrace on mineral soil, just above beach. Eroding.

**Habitat Type (Fossitt (2000))**

CS3 Sedimentary sea cliffs

**EU Habitat Type**

Sea cliffs [1230]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Maritime grassland on cliff

**Quadrat Condition**

1 - Good

**Water Table Depth cm** below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Grazing - sheep  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	10
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	40	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	45	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	45

Species Latin Name	Species English Name	Species cover (Domin)
<i>Achillea millefolium</i>	Yarrow	3
<i>Agrostis</i> sp.	Grass	2
<i>Ammophila arenaria</i>	Marram	5
<i>Bellis perennis</i>	Daisy	3
<i>Ctenidium molluscum</i>	Moss	7
<i>Cynosurus cristatus</i>	Crested Dog's-tail	3
<i>Festuca rubra</i>	Red Fescue	5
Grass – unidentified	Grass – unidentified	2
<i>Hypochaeris radicata</i>	Cat's-ear	2
<i>Leontodon autumnalis</i>	Marsh Hawk's-beard	5
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	4
<i>Plantago lanceolata</i>	Ribwort Plantain	7
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	3
<i>Poa</i> sp.	Grass	3
<i>Prunella vulgaris</i>	Selfheal	3
<i>Pteridium aquilinum</i>	Bracken	4
<i>Rhytidiadelphus squarrosus</i>	Springy Turf-Moss	3
Sedge – unidentified	Sedge – unidentified	3
<i>Taraxacum</i> agg.	Dandelion	3
<i>Trifolium repens</i>	White Clover	3
<i>Viola</i> sp.		3

### General Fauna Observations

Heath snail - *Helicella itala*.



**Quadrat Number:** 7

**Photograph Numbers**

1020-1024

**Easting** 549818

**Northing** 879895

**Survey Date** 03/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Small pedestrian lay by along concrete steps down to beach. Grazed by sheep. Some evidence if visitor trampling.

**Quadrats Comments**

Probably made ground.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Made ground by steps

**Quadrat Condition**

2 - Fair

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Recreation/Grazing
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	95	<b>Litter cover</b>	15
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	95	<b>Bare peat / Soil cover</b>	5
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	10	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	10

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	4
<i>Cynosurus cristatus</i>	Crested Dog's-tail	3
<i>Leontodon autumnalis</i>	Marsh Hawk's-beard	3
<i>Lolium perenne</i>	Perennial Rye-grass	4
<i>Poa annua</i>	Annual Meadow-grass	9
<i>Pteridium aquilinum</i>	Bracken	2
<i>Urtica dioica</i>	Common Nettle	2

**General Fauna Observations**

None



**Quadrat Number:** 1  
**Photograph Numbers**  
 1303-1307  
**Easting** 463790  
**Northing** 825722  
**Survey Date** 06/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Mineral Soil  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** 5  
**Aspect** South

**Quadrat Description**

Rank grassland area between beach and main road. No evidence if grazing. No visitor impacts.

**Quadrats Comments**

Thick grassy sward.

**Habitat Type (Fossitt (2000))**

GS2 Dry meadows and grassy verges

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Maritime grassland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** None  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	20
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	40	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	40

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	5
<i>Dactylis glomerata</i>	Cock's-foot	3
<i>Festuca rubra</i>	Red Fescue	7
<i>Galium verum</i>	Lady's Bedstraw	3
<i>Holcus lanatus</i>	Yorkshire-fog	3
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	2
<i>Plantago lanceolata</i>	Ribwort Plantain	4
Sedge – unidentified	Sedge – unidentified	2
<i>Trifolium pratense</i>	Red Clover	+

### General Fauna Observations

Fox moth - *Macrothylacia rubi*. x 2. Numerous other larvae seen throughout dune complex at Elly Bay.



**Quadrat Number:** 2

**Photograph Numbers**

1308-1312

**Easting** 463846

**Northing** 825729

**Survey Date** 06/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Loose Rock

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** South

**Quadrat Description**

Rocky upper shore composed of loose rocks, with seaweed litter. No visitor impact evident. Robust habitat subject to continual wave action.

**Quadrats Comments**

Sea weed litter.

**Habitat Type (Fossitt (2000))**

LS1 Shingle and gravel shores

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Rocky beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** NA

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	10	<b>Litter cover</b>	20
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	90
<b>Herb Grass cover</b>	10	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 5      **Height Shrub layer cm** 0

**Height Tree layer cm** 0      **Height Herb layer cm** 5

Species Latin Name	Species English Name	Species cover (Domin)
Honckenya peploides	Sea Sandwort	4

**General Fauna Observations**

None





**Quadrat Number:** 3  
**Photograph Numbers**  
 1313-1317  
**Easting** 463683  
**Northing** 825689  
**Survey Date** 06/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Sand  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** <5  
**Aspect** South

**Quadrat Description**

Area of sandy seashore below dunes and adjacent to car park. Some Zostera litter in area. No visitor impacts. Robust habitat. Inter tidal.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

LS2 Sandshores

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	<5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	100
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 0 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 0

Species Latin Name	Species English Name	Species cover (Domin)
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No floral observations were made

**General Fauna Observations**

Various sea shells.



**Quadrat Number:** 4

**Photograph Numbers**

1318-1322

**Easting** 463656

**Northing** 825696

**Survey Date** 06/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** 10

**Aspect** South

**Quadrat Description**

Ammophila dune area above retaining wall to beach. No visitor impact visible. No grazing evidence.

**Quadrats Comments**

Edge of steep dune ridge.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Marram dunes

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	95	<b>Litter cover</b>	10
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	95	<b>Bare peat / Soil cover</b>	5
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	25	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	25

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	6
<i>Carex arenaria</i>	Sand Sedge	3
<i>Festuca rubra</i>	Red Fescue	9
<i>Honckenya peploides</i>	Sea Sandwort	4
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	2
<i>Plantago lanceolata</i>	Ribwort Plantain	+
<i>Rumex</i> sp.	Dock	+
<i>Trifolium pratense</i>	Red Clover	4

### General Fauna Observations

Heath snail - *Helicella itala*, Fox moth - *Macrothylacia rubi*.



**Quadrat Number:** 5

**Photograph Numbers**

1327-1331

**Easting** 463563

**Northing** 825660

**Survey Date** 06/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** 25

**Aspect** South

**Quadrat Description**

Area of marram dunes on margins of blow out. No obvious visitor impacts, although domestic litter occurs 5m away. No evidence of grazing.

**Quadrats Comments**

Some bare sand.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Marram dunes

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	30	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	30	<b>Bare peat / Soil cover</b>	70
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	45	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	45

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	5
<i>Carex arenaria</i>	Sand Sedge	4
<i>Daucus carota</i>	Wild Carrot	+
<i>Festuca rubra</i>	Red Fescue	5
<i>Galium verum</i>	Lady's Bedstraw	1
<i>Hypochaeris radicata</i>	Cat's-ear	1

**General Fauna Observations**

None



**Quadrat Number:** 6

**Photograph Numbers**

1336-1340

**Easting** 463373

**Northing** 825471

**Survey Date** 06/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** South

**Quadrat Description**

On crest of dunes between strand and road. No visitor impacts observed. No grazing. Dense sward with high litter cover.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Marram dunes

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

**Total Vegetation cover** 100      **Litter cover** 80

**Tree cover** 0      **Algae cover** 0

**Shrub cover** 0      **Rock cover** 0

**Herb Grass cover** 100      **Bare peat / Soil cover** 0

**Bryophyte cover** 0      **Open Water cover** 0

**Height of vegetation cm** 55      **Height Shrub layer cm** 0

**Height Tree layer cm** 0      **Height Herb layer cm** 55

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	6
<i>Carex arenaria</i>	Sand Sedge	4
<i>Festuca rubra</i>	Red Fescue	9
<i>Plantago lanceolata</i>	Ribwort Plantain	+
<i>Vicia sepium</i>	Bush Vetch	3

**General Fauna Observations**

None



**Quadrat Number:** 1

**Photograph Numbers**

1453-1457

**Easting** 455676

**Northing** 821106

**Survey Date** 07/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** <5

**Aspect** North

**Quadrat Description**

Area of grassland amongst ruined cottages just south of harbour. Significant sheep grazing and droppings. Camp fire sites in area, one camp fire 1 m from quadrat.

**Quadrats Comments**

Near harbour.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Grassy path through houses

**Quadrat Condition**

2 - Fair

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Recreation/Grazing
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Recreation/Grazing

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	95	<b>Litter cover</b>	<5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	95	<b>Bare peat / Soil cover</b>	5
<b>Bryophyte cover</b>	5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	3	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	3



Species Latin Name	Species English Name	Species cover (Domin)
<i>Achillea millefolium</i>	Yarrow	3
Acrocarpus moss – unidentified	Acrocarpus moss – unidentified	3
<i>Agrostis stolonifera</i>	Creeping Bent	4
<i>Bellis perennis</i>	Daisy	6
<i>Festuca rubra</i>	Red Fescue	7
<i>Plantago coronopus</i>	Buck's-horn Plantain	2
<i>Plantago lanceolata</i>	Ribwort Plantain	5
<i>Poa annua</i>	Annual Meadow-grass	4
<i>Ranunculus repens</i>	Creeping Buttercup	4
<i>Trifolium repens</i>	White Clover	4

**General Fauna Observations**

None



**Quadrat Number:** 2

**Photograph Numbers**

1462-1466

**Easting** 455541

**Northing** 820896

**Survey Date** 07/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Peat /Mineral

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** <5

**Aspect** North

**Quadrat Description**

Quadrat occur in seepage area in centre of track with wall on either side. Surface soft with occasional sheep footprint in waterlogged soil. Visitor impacts possible.

**Quadrats Comments**

Water seepage through area.

**Habitat Type (Fossitt (2000))**

PF2 Poor fen and flush

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Wet area on trackway

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

At surface

**Comments on Hydrology**

Quadrat located with area of surface flow. Runnel.

**Quadrat Landuse**

Recreation/Grazing

**Quadrat Grazing**

Area grazed by sheep

**Adjacent Landuse**

Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	80	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	10
<b>Herb Grass cover</b>	80	<b>Bare peat / Soil cover</b>	10
<b>Bryophyte cover</b>	30	<b>Open Water cover</b>	0

**Height of vegetation cm** 5

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 5

Species Latin Name	Species English Name	Species cover (Domin)
Acrocarpus moss – unidentified	Acrocarpus moss – unidentified	5
Anagallis tenella	Bog Pimpernel	5
Bellis perennis	Daisy	5
Carex panicea	Carnation Sedge	2
Eleocharis multicaulis	Many-stalked Spike-rush	5
Festuca rubra	Red Fescue	2
Glaux maritima	Sea-milkwort	3
Holcus lanatus	Yorkshire-fog	3
Juncus bufonius	Toad Rush	2
Juncus sp.	Rush	3
Leontodon autumnalis	Marsh Hawk's-beard	4
Liverwort	Liverwort	3
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	4
Prunella vulgaris	Selfheal	2
Ranunculus repens	Creeping Buttercup	2
Sagina procumbens	Procumbent Pearlwort	2
Trifolium repens	White Clover	3

#### General Fauna Observations

Earth tongue fungus (*Geoglossum* sp. possibly *Geoglossum cookeanum*), *Arion ater*.



**Quadrat Number:** 3

**Photograph Numbers**

1483-1487

**Easting** 455107

**Northing** 820793

**Survey Date** 07/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Peat

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 25

**Aspect** South

**Quadrat Description**

Area of heathland with south facing slopes developed on lazy beds. Short uniform sward. No visitor impacts observed.

**Quadrats Comments**

Formed on old abandoned lazy beds.

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

Dry Heath [4030]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Heath on lazy beds

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Grazing - sheep  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	100	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	5	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	5	<b>Height Shrub layer cm</b>	4
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	5

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	3
<i>Calluna vulgaris</i>	Ling Heather	10
<i>Carex panicea</i>	Carnation Sedge	3
<i>Erica cinerea</i>	Bell Heather	4
<i>Festuca rubra</i>	Red Fescue	3
<i>Holcus lanatus</i>	Yorkshire-fog	2
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	4
<i>Luzula</i> sp.	Rush	3
<i>Plantago lanceolata</i>	Ribwort Plantain	+
<i>Plantago maritima</i>	Sea Plantain	3
<i>Polygala serpyllifolia</i>	Heath Milkwort	2
<i>Potentilla erecta</i>	Tormentil	2
Sedge – unidentified	Sedge – unidentified	3
<i>Succisa pratensis</i>	Devil's-bit Scabious	1
<i>Trifolium repens</i>	White Clover	3

**General Fauna Observations**

None



**Quadrat Number:** 4  
**Photograph Numbers**  
 1505-1509  
**Easting** 454801  
**Northing** 820582  
**Survey Date** 07/10/201  
**Surveyors**  
 Patrick Crushell & Peter Foss  
**Substrate Type** Peat  
**Stability** Firm  
**Substrate Depth** Unknown  
**Slope Degrees** 0  
**Aspect** South

**Quadrat Description**

Possible minor impacts by visitors although sheep may be main cause of slight impact along the track surface.

**Quadrats Comments**

Level old trackway undulating surface. Potamogeton dominated wet flush occurring 5m to north.

**Habitat Type (Fossitt (2000))**

HH3 Wet heath

**EU Habitat Type**

Wet Heath [4010]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

On old track - few sigms of use although some erosion near flushed areas.

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** Runnel with surface water just south of quadrat

**Quadrat Landuse** Recreation/Grazing  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	45	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	75	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	20	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	5	<b>Height Shrub layer cm</b>	5
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	5

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	3
<i>Anagallis tenella</i>	Bog Pimpernel	4
<i>Calluna vulgaris</i>	Ling Heather	7
<i>Carex panicea</i>	Carnation Sedge	4
<i>Festuca rubra</i>	Red Fescue	4
Grass – unidentified	Grass – unidentified	4
<i>Holcus lanatus</i>	Yorkshire-fog	4
<i>Hypnum jutlandicum</i>	Moss	5
<i>Juncus acutiflorus</i>	Sharp-flowered Rush	3
Liverwort	Liverwort	4
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	3
<i>Plantago lanceolata</i>	Ribwort Plantain	2
<i>Plantago maritima</i>	Sea Plantain	4
<i>Potentilla erecta</i>	Tormentil	+
<i>Rhytiadelphus squarrosus</i>	Springy Turf-Moss	2
Sedge – unidentified	Sedge – unidentified	4
<i>Sphagnum tenellum</i>	Soft Bog Moss	3
<i>Trifolium repens</i>	White Clover	3

**General Fauna Observations**

None



**Quadrat Number:** 5

**Photograph Numbers**

1533-1537

**Easting** 454514

**Northing** 820457

**Survey Date** 07/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Peat

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** 5

**Aspect** South

**Quadrat Description**

No signs of visitor effects. Grassland quadrat at end of old track.

**Quadrats Comments**

Hygrocybe yellow mushrooms. On grassland up slope from rocky beach.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Maritime grassland quadrat at end of old track.

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

Below surface

**Comments on Hydrology**

No surface water features closeby.

**Quadrat Landuse**

Grazing - sheep

**Quadrat Grazing**

Area grazed by sheep

**Adjacent Landuse**

Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 2

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

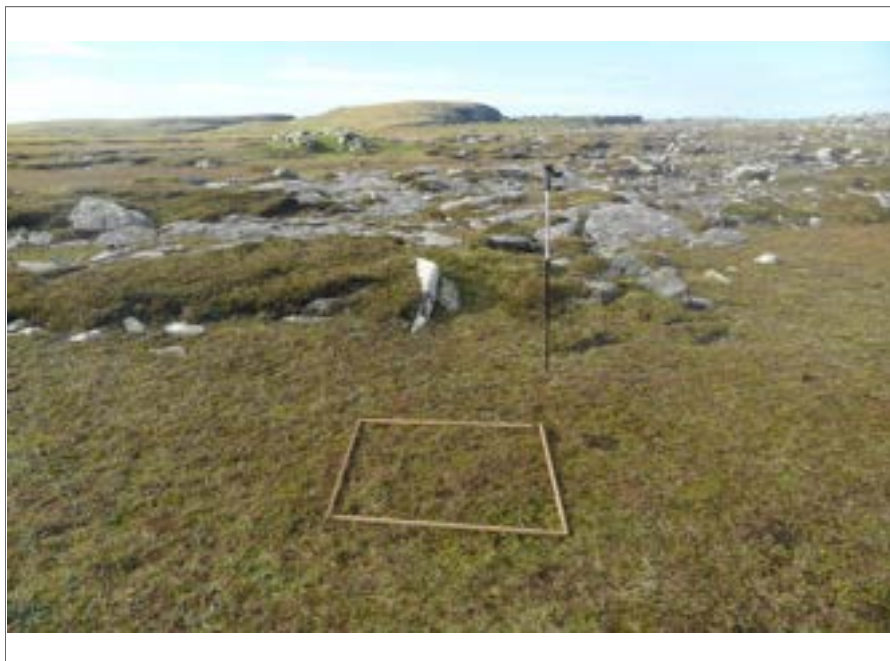
**Height Herb layer cm** 2



Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	1
<i>Bellis perennis</i>	Daisy	4
<i>Carex demissa</i>	Common Yellow-sedge	2
<i>Carex panicea</i>	Carnation Sedge	4
<i>Festuca rubra</i>	Red Fescue	6
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	+
<i>Leontodon autumnalis</i>	Marsh Hawk's-beard	4
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	4
<i>Plantago coronopus</i>	Buck's-horn Plantain	3
<i>Plantago lanceolata</i>	Ribwort Plantain	5
<i>Plantago maritima</i>	Sea Plantain	4
<i>Trifolium repens</i>	White Clover	3

**General Fauna Observations**

None



**Quadrat Number:** 6

**Photograph Numbers**

1586-1590

**Easting** 454631

**Northing** 820645

**Survey Date** 07/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Peat

**Stability** Firm

**Substrate Depth** 15-20

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Area of low growing plantain community between rocky outcrop and boulders. No visitor impacts observed.

**Quadrats Comments**

Small surface water pools also present in surroundings. Calluna heath occurs associated with raised rock outcrops in surroundings.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Maritime grassland - some characteristics of Machair.

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

Near surface

**Comments on Hydrology**

Surrounding areas includes a number of shallow pools.

**Quadrat Landuse**

Grazing - sheep

**Quadrat Grazing**

Area grazed by sheep

**Adjacent Landuse**

Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	95	<b>Litter cover</b>	0
<b>Tree cover</b>	9	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	85	<b>Bare peat / Soil cover</b>	5
<b>Bryophyte cover</b>	20	<b>Open Water cover</b>	0

**Height of vegetation cm** 1

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 1

Species Latin Name	Species English Name	Species cover (Domin)
Acrocarpus moss – unidentified	Acrocarpus moss – unidentified	5
Agrostis stolonifera	Creeping Bent	1
Anagallis tenella	Bog Pimpernel	6
Carex demissa	Common Yellow-sedge	4
Glaux maritima	Sea-milkwort	+
Hydrocotyle vulgaris	Marsh Pennywort	1
Leontodon autumnalis	Marsh Hawk's-beard	3
Liverwort	Liverwort	3
Plantago coronopus	Buck's-horn Plantain	3
Plantago maritima	Sea Plantain	8
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	3
Sedge – unidentified	Sedge – unidentified	3

**General Fauna Observations**

None



**Quadrat Number:** 7

**Photograph Numbers**

1597-1600 & 1603

**Easting** 454847

**Northing** 820889

**Survey Date** 07/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** 15

**Slope Degrees** 5

**Aspect** West

**Quadrat Description**

Level grassy area on gentle adjacent to a series of upright stone. 30m from rocky headland to north. Vague path visible (possibly mainly due to sheep), sheep grazed. No visitor impacts observed.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Grassland

**Quadrat Condition**

1 - Good

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Grazing - sheep
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	3	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	3

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	3
<i>Anagallis tenella</i>	Bog Pimpernel	2
<i>Bellis perennis</i>	Daisy	2
<i>Festuca rubra</i>	Red Fescue	5
<i>Glaux maritima</i>	Sea-milkwort	+
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	3
<i>Plantago coronopus</i>	Buck's-horn Plantain	7
<i>Plantago lanceolata</i>	Ribwort Plantain	4
<i>Plantago maritima</i>	Sea Plantain	3
<i>Trifolium repens</i>	White Clover	3

### General Fauna Observations

Rabbit droppings beside releve.



**Quadrat Number:** 8

**Photograph Numbers**

1617-1621

**Easting** 456668

**Northing** 821184

**Survey Date** 07/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** East

**Quadrat Description**

Area at top of rock/ sand beach, 15 m east of ruined houses. No obvious visitor impacts. Robust habitat.

**Quadrats Comments**

10 m from ruined houses.

**Habitat Type (Fossitt (2000))**

LS2 Sandshores

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation/Grazing

**Quadrat Grazing** Area grazed by sheep

**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	10	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	10
<b>Herb Grass cover</b>	10	<b>Bare peat / Soil cover</b>	90
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 5 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 5

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	2
<i>Cerastium fontanum</i>	Common Mouse-ear	3
<i>Plantago coronopus</i>	Buck's-horn Plantain	4
<i>Plantago lanceolata</i>	Ribwort Plantain	4
<i>Urtica dioica</i>	Common Nettle	+

**General Fauna Observations**

None



**Quadrat Number:** 9

**Photograph Numbers**

1624-1628

**Easting** 455628

**Northing** 821172

**Survey Date** 07/10/201

**Surveyors**

Patrick Crushell & Peter Foss

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** flat

**Aspect** NA

**Quadrat Description**

Grassland area behind ruined houses near harbour, severely grazed by sheep. No evidence of visitor impacts.

**Quadrats Comments**

Sheep droppings in quadrat.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Grassland

**Quadrat Condition**

1 - Good

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Grazing - sheep
<b>Quadrat Grazing</b>	Area severly grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	<5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	4	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	4



Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	4
<i>Bellis perennis</i>	Daisy	6
<i>Cirsium arvense</i>	Creeping Thistle	+
<i>Festuca rubra</i>	Red Fescue	6
<i>Plantago coronopus</i>	Buck's-horn Plantain	5
<i>Plantago lanceolata</i>	Ribwort Plantain	6
<i>Poa annua</i>	Annual Meadow-grass	3
<i>Trifolium repens</i>	White Clover	3

**General Fauna Observations**

Rabbits.



**Quadrat Number:** 1

**Photograph Numbers**

2027-2031

**Easting** 497328

**Northing** 652683

**Survey Date** 13/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** <5

**Aspect** North

**Quadrat Description**

Area of rabbit grazed grassland, 8m from hardcore path from pier to monastic ruins. Slopes gently to north. No visitor impacts. Heavily rabbit grazed, droppings in quadrat.

**Quadrats Comments**

Even tightly grazed sward, does not appear to be mown.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Grassland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** Amenity Management

**Quadrat Grazing** Rabbits

**Adjacent Landuse** Grazing - other (Rabbit)

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	75	<b>Open Water cover</b>	0

**Height of vegetation cm** 2      **Height Shrub layer cm** 0

**Height Tree layer cm** 0      **Height Herb layer cm** 2

Species Latin Name	Species English Name	Species cover (Domin)
Cirsium arvense	Creeping Thistle	+
Festuca sp.	Grass	7
Holcus lanatus	Yorkshire-fog	3
Plant unidentified (probably Epilobium	na	3
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	4
Rhytidiadelphus squarrosus	Springy Turf-Moss	8
Rumex acetosa	Common Sorrel	5

**General Fauna Observations**

Rabbit



**Quadrat Number:** 2

**Photograph Numbers**

2034-2038

**Easting** 497276

**Northing** 652656

**Survey Date** 13/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Area of rough grassland with abundant bramble scrub and nettle extending over an extensive area to south as far as Round tower. No obvious visitor impacts. Possibly lightly grazed by rabbits in contrast to adjacent grassland to north.

**Quadrats Comments**

Brambles likely to inhibit visitor access.

**Habitat Type (Fossitt (2000))**

GS2 Dry meadows and grassy verges

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Bramble scrub

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** No surface water present.

**Quadrat Landuse** None

**Quadrat Grazing** Rabbits

**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	25
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	20	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 50      **Height Shrub layer cm** 50

**Height Tree layer cm** 0      **Height Herb layer cm** 50

Species Latin Name	Species English Name	Species cover (Domin)
Cirsium arvense	Creeping Thistle	5
Festuca rubra	Red Fescue	4
Grass – unidentified	Grass – unidentified	5
Holcus lanatus	Yorkshire-fog	9
Ranunculus repens	Creeping Buttercup	5
Rubus fruticosus agg.	Blackberry	5
Urtica dioica	Common Nettle	3

**General Fauna Observations**

None



**Quadrat Number:** 3

**Photograph Numbers**

2047-2051

**Easting** 497218

**Northing** 652629

**Survey Date** 13/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Path area with wooden edges, mown by lawnmower, with wetter area on either side. Rabbit droppings in quadrat. Likely to be fertilised. No visitor impacts, no bare areas.

**Quadrats Comments**

Beside monastic ruins.

**Habitat Type (Fossitt (2000))**

GA2 Amenity grassland (improved)

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Grassy path, managed. Path with wooden edges

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

Below surface

**Comments on Hydrology**

Wet seepage areas on either side of path

**Quadrat Landuse**

Amenity Management

**Quadrat Grazing**

Rabbits

**Adjacent Landuse**

Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	2	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	2

Species Latin Name	Species English Name	Species cover (Domin)
Bellis perennis	Daisy	8
Cerastium fontanum	Common Mouse-ear	1
Festuca rubra	Red Fescue	3
Poa annua	Annual Meadow-grass	7
Prunella vulgaris	Selfheal	4
Ranunculus repens	Creeping Buttercup	4
Trifolium repens	White Clover	3

**General Fauna Observations**

Rabbit



**Quadrat Number:** 4

**Photograph Numbers**

2054-2058

**Easting** 497205

**Northing** 652583

**Survey Date** 13/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Area of wet grassland dominated by *Juncus effusus*. No visitor impacts. No grazing by rabbits. Grades into bracken areas along path edge and and bracken/ scrub areas with elder and willow on raised mineral soil knolls in surrounding area. Robust habitat.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

GS4 Wet grassland

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Wet *Juncus* grassland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** At surface

**Comments on Hydrology** At or just below surface

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	<5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	125	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	125



Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	3
<i>Arrhenatherum elatius</i>	False Oat-grass	+
<i>Epilobium</i> sp.	Willow herb	3
<i>Filipendula ulmaria</i>	Meadowsweet	3
Grass – unidentified	Grass – unidentified	1
<i>Juncus effusus</i>	Soft-rush	10
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	3
<i>Potentilla reptans</i>	Creeping Cinquefoil	3
<i>Pulicaria dysenterica</i>	Common Fleabane	1
<i>Rumex crispus</i>	Curled dock	1
<i>Solanum dulcamara</i>	Bittersweet	+

### General Fauna Observations

Starling, Coal Tit.



**Quadrat Number:** 5

**Photograph Numbers**

2075-2079

**Easting** 497157

**Northing** 652422

**Survey Date** 13/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth**

**Slope Degrees** <5

**Aspect** North

**Quadrat Description**

Located on monastic trail route, ca 2m southeast of bench. Area heavily grazed by rabbits. Mowed by lawnmower. No evidence of visitor impacts. Robust habitat mowed.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Grassy path

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

No surface water

**Comments on Hydrology**

**Quadrat Landuse**

Amenity Management

**Quadrat Grazing**

Rabbits

**Adjacent Landuse**

Grazing - other (Rabbit)

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	40	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	75	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	3	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	3

Species Latin Name	Species English Name	Species cover (Domin)
Acrocarpus moss – unidentified	Acrocarpus moss – unidentified	7
Bellis perennis	Daisy	5
Cirsium arvense	Creeping Thistle	3
Luzula sp.	Rush	+
Poa annua	Annual Meadow-grass	7
Prunella vulgaris	Selfheal	5
Rhytidiadelphus squarrosus	Springy Turf-Moss	6
Senecio jacobaea	Common Ragwort	+

#### General Fauna Observations

Wren calling nearby. Ca 60 starling flyover from north to south. Rabbit.



**Quadrat Number:** 6

**Photograph Numbers**

2082-2086

**Easting** 497149

**Northing** 652422

**Survey Date** 13/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth**

**Slope Degrees** Flat

**Aspect** East

**Quadrat Description**

Located in bramble dominated scrub ca 5m west of monastic trail. No visitor impacts identified.

**Quadrats Comments**

Brambles likely to inhibit visitor access.

**Habitat Type (Fossitt (2000))**

GS2 Dry meadows and grassy verges

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Bramble scrub

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

No surface water present.

**Comments on Hydrology**

**Quadrat Landuse**

None

**Quadrat Grazing**

Rabbits

**Adjacent Landuse**

Grazing - other (Rabbit)

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	50
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	70	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	60	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	65	<b>Height Shrub layer cm</b>	50
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	65

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	5
<i>Arrhenatherum elatius</i>	False Oat-grass	6
<i>Epilobium</i> sp.	Willow herb	+
<i>Galium aparine</i>	Cleavers	1
<i>Rubus fruticosus</i> agg.	Blackberry	8
<i>Rumex acetosa</i>	Common Sorrel	+

**General Fauna Observations**

Crab spider



**Quadrat Number:** 7

**Photograph Numbers**

2114-2118

**Easting** 497202

**Northing** 652049

**Survey Date** 13/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth**

**Slope Degrees** <5

**Aspect** North-West

**Quadrat Description**

Located on old access track with stone wall either side. Quadrat located ca 4m east of open water in saltmarsh habitat. Rabbit impacts likely. No obvious visitor impacts

**Quadrats Comments**

Saltmarsh bisected by wide wet channels, unlikely to have visitors accessing this habitat, although indicates otherwise. Possible mapping error.

**Habitat Type (Fossitt (2000))**

CM1 Lower salt marsh

**EU Habitat Type**

Atlantic salt meadows [1330]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Saltmarsh area

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

No surface water.

**Comments on Hydrology**

**Quadrat Landuse**

None

**Quadrat Grazing**

Rabbits

**Adjacent Landuse**

Grazing - other (Rabbit)

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	80	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	40
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	80	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 1

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 1

Species Latin Name	Species English Name	Species cover (Domin)
Algae	Alga	7
Armeria maritima	Thrift	5
Cochlearia sp.	Scurvy grass	+
Festuca sp.	Grass	7
Glaux maritima	Sea-milkwort	3
Limonium sp.	Sea lavender	+
Plantago coronopus	Buck's-horn Plantain	2
Plantago maritima	Sea Plantain	1

#### General Fauna Observations

Rabbit droppings in quadrat. Wheatear.



**Quadrat Number:** 8

**Photograph Numbers**

2130-2134

**Easting** 497328

**Northing** 652128

**Survey Date** 13/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth**

**Slope Degrees** <5

**Aspect** West

**Quadrat Description**

Obvious track used by visitors occurs along eastern edge of *Glaux maritima* dominated grassland, backing on to shingle mound by beach. Moderate visitor impact. High impact from rabbit grazing.

**Quadrats Comments**

Located along obvious trackway immediately east of saltmarsh. Stony beach occurs ca 15m to west.

**Habitat Type (Fossitt (2000))**

CM2 Upper salt marsh

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Grassy path influenced by saline water

**Quadrat Condition**

2 - Fair

**Water Table Depth cm**

No surface water. Open surface water on saltmarsh to the west.

**Comments on Hydrology**

**Quadrat Landuse**

Recreation

**Quadrat Grazing**

Rabbits

**Adjacent Landuse**

Grazing - other (Rabbit)

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	1-3	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	3



Species Latin Name	Species English Name	Species cover (Domin)
Cochlearia sp.	Scurvy grass	4
Festuca rubra	Red Fescue	10
Glaux maritima	Sea-milkwort	5
Poa annua	Annual Meadow-grass	4

**General Fauna Observations**

Rabbit



**Quadrat Number:** 9

**Photograph Numbers**

2146-2150

**Easting** 497430

**Northing** 652302

**Survey Date** 13/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth**

**Slope Degrees** Flat

**Aspect**

**Quadrat Description**

Located along local access track ca 5m south of remnant sod and stone wall. Track is ca 4m wide with quadrat located within an open area surrounded by bramble scrub. No obvious visitor impacts.

**Quadrats Comments**

High rabbit grazing impact. Path does not appear mown, but not certain of this.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Grassy path

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

No surface water

**Comments on Hydrology**

**Quadrat Landuse**

Recreation

**Quadrat Grazing**

Rabbits

**Adjacent Landuse**

Grazing - other (Rabbit)

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	75	<b>Open Water cover</b>	0

**Height of vegetation cm** 1-3

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 1-3

Species Latin Name	Species English Name	Species cover (Domin)
Cirsium arvense	Creeping Thistle	3
Epilobium sp.	Willow herb	2
Festuca sp.	Grass	8
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	9
Poa annua	Annual Meadow-grass	7
Prunella vulgaris	Selfheal	4
Ranunculus repens	Creeping Buttercup	4
Rumex acetosa	Common Sorrel	+

**General Fauna Observations**

Rabbit



**Quadrat Number:** 1

**Photograph Numbers**

1848-1852

**Easting** 462547

**Northing** 613396

**Survey Date** 11/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Area of sand shore 3m from car park beyond retaining wall. Some seaweed litter. No visitor impacts. Robust habitat.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

LS2 Sandshores

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	100
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 0 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 0

Species Latin Name	Species English Name	Species cover (Domin)
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No floral observations were made

**General Fauna Observations**

None



**Quadrat Number:** 2

**Photograph Numbers**

1828-1832

**Easting** 462763

**Northing** 613733

**Survey Date** 11/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand and

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Area of sandy and stone shore. No visitor impacts. Robust habitat.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

LR4 Mixed substrate shores

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	100
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	00

**Height of vegetation cm** 0      **Height Shrub layer cm** 0

**Height Tree layer cm** 0      **Height Herb layer cm** 0

Species Latin Name	Species English Name	Species cover (Domin)
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No floral observations were made		
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**General Fauna Observations**

Sea shells



**Quadrat Number:** 3

**Photograph Numbers**

1853-1857

**Easting** 462415

**Northing** 614174

**Survey Date** 11/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** <5

**Aspect** West

**Quadrat Description**

Sandy shore. No obvious visitor impacts. Robust habitat.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

LS2 Sandshores

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Near surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	100
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 0 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 0

Species Latin Name	Species English Name	Species cover (Domin)
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No floral observations were made

**General Fauna Observations**

None



**Quadrat Number:** 4

**Photograph Numbers**

1833-1837

**Easting** 462629

**Northing** 613826

**Survey Date** 11/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Area behind marram dunes, loose sand with two camp fire sites 2m inland from quadrat. Appear to be a farm track between quadrat and dunes used by local cattle farmer. Vehicle tracks observed. Visitors may further impact site.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Sandy track behind dunes

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	<5	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	<5	<b>Bare peat / Soil cover</b>	98
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 5 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 5

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	1
<i>Honckenya peploides</i>	Sea Sandwort	+

**General Fauna Observations**

None





**Quadrat Number:** 5

**Photograph Numbers**

1823-1837

**Easting** 462801

**Northing** 613665

**Survey Date** 11/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** level

**Aspect** NA

**Quadrat Description**

Unpaved trackway 5m wide through dunes with sand erosion lowering track below dunes. Adjacent to gate into cattle field behind dunes. Difficult to assess if damage on track caused by visitors or farming activity. Possibly both.

**Quadrats Comments**

Cattle and horse grazing inland of fence behind dunes. Tractor by gate on day of visit.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Sandy track though dunes

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** Below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Grazing - cattle

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	<5	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	<5	<b>Bare peat / Soil cover</b>	98
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	35	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	35

Species Latin Name	Species English Name	Species cover (Domin)
Ammophila arenaria	Marram	+

**General Fauna Observations**

None



**Quadrat Number:** 6

**Photograph Numbers**

1858-1862

**Easting** 462370

**Northing** 614204

**Survey Date** 11/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Area of fore dunes adjacent to 2m tall bank of eroding marram dunes. No visitor impacts observed.

**Quadrats Comments**

Area suffering from sea erosion.

**Habitat Type (Fossitt (2000))**

CD1 Embryonic dunes

**EU Habitat Type**

Embryonic shifting dunes [2110]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	<5	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	100
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	35	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	35

Species Latin Name	Species English Name	Species cover (Domin)
Ammophila arenaria	Marram	+

**General Fauna Observations**

None



**Quadrat Number:** 7  
**Photograph Numbers**  
 1843-1847  
**Easting** 462597  
**Northing** 613867  
**Survey Date** 11/10/201  
**Surveyors**  
 Peter Foss & Brendan Kirwan  
**Substrate Type** Sand  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** Level  
**Aspect** NA

**Quadrat Description**

Area of marram dunes inland of farm trackway on sand. 1.5m from barbed wire fence to adjacent grazing land with dunes. No obvious visitor impacts.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Marram dunes

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** None  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	100	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	100

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	10
<i>Lapsana communis</i>	Nipplewort	+

**General Fauna Observations**

None



**Quadrat Number:** 8

**Photograph Numbers**

1817-1821

**Easting** 463063

**Northing** 613445

**Survey Date** 11/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Flat

**Aspect** NA

**Quadrat Description**

Area of marram dunes 3 m from fence on inland side. Dune area width is 10m to open beach. No obvious visitor impacts.

**Quadrats Comments**

Low almost flat dunes.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Marram dunes

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** None  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Cattle grazing on inland side of fence

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	90	<b>Litter cover</b>	15
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	90	<b>Bare peat / Soil cover</b>	10
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	100	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	100

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	7
<i>Ammophila arenaria</i>	Marram	6
<i>Honckenia peploides</i>	Sea Sandwort	5
<i>Sonchus</i> sp.	Sow-thistle	+
<i>Taraxacum</i> agg.	Dandelion	+

**General Fauna Observations**

None





**Quadrat Number:** 9  
**Photograph Numbers**  
 1863-1867  
**Easting** 462321  
**Northing** 614258  
**Survey Date** 11/10/201  
**Surveyors**  
 Peter Foss & Brendan Kirwan  
**Substrate Type** Sand  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** Level  
**Aspect** NA

**Quadrat Description**

Area of marram dunes, flat in appearance adjacent to grassy farm track running along fence line. No visitor impact. Robust habitat.

**Quadrats Comments**

Trackway is used by dog walkers.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Marram dunes

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** None  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Access track

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	25
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	50	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	80	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	80

Species Latin Name	Species English Name	Species cover (Domin)
Acrocarpus moss – unidentified	Acrocarpus moss – unidentified	5
Agrostis stolonifera	Creeping Bent	3
Ammophila arenaria	Marram	7
Festuca rubra	Red Fescue	4
Lathyrus sp.	Vetchling	3
Lotus corniculatus	Common Bird's-foot-trefoil	3
Rhytidiadelphus squarrosus	Springy Turf-Moss	4
Rubus fruticosus agg.	Blackberry	5
Sonchus sp.	Sow-thistle	+
Taraxacum agg.	Dandelion	+
Viola sp.	Violet	+

**General Fauna Observations**

None



**Quadrat Number:** 1  
**Photograph Numbers**  
 1890-1894  
**Easting** 452576  
**Northing** 617328  
**Survey Date** 11/10/201  
**Surveyors**  
 Peter Foss & Brendan Kirwan  
**Substrate Type** Mineral Soil  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** 5  
**Aspect** West

**Quadrat Description**

Occurs on trackway in area grazed by sheep. Vegetation height is low and compact due to grazing. Stone wall occurs ca 0.3m west of quadrat location. Unsurfaced path leads to hut at the top of the viewing point.

**Quadrats Comments**

Unsurfaced path leads to hut at the top of the viewing point.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Grassy unpaved path

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Recreation/Grazing  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	5	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	5

Species Latin Name	Species English Name	Species cover (Domin)
Poa annua	Annual Meadow-grass	10
Trifolium repens	White Clover	4

**General Fauna Observations**

Sheep droppings in quadrat.



**Quadrat Number:** 2

**Photograph Numbers**

1895-1899

**Easting** 452451

**Northing** 617370

**Survey Date** 11/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Loose Rock

**Stability** Very firm

**Substrate Depth** NA

**Slope Degrees** 10

**Aspect** South

**Quadrat Description**

Located on unsurfaced path to hut. Stone wall occurs ca 3m west of quadrat. Vegetation is very low and compact due to trampling and grazing.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Grassy unpaved path

**Quadrat Condition**

2 - Fair

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Recreation/Grazing
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	90	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	90	<b>Bare peat / Soil cover</b>	10
<b>Bryophyte cover</b>	5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	2	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	2

Species Latin Name	Species English Name	Species cover (Domin)
Acrocarpus moss – unidentified	Acrocarpus moss – unidentified	3
Festuca ovina	Sheep's-fescue	10
Galium saxatile	Heath Bedstraw	4
Grass – unidentified	Grass – unidentified	4
Hypnum jutlandicum	Moss	3
Hypochaeris radicata	Cat's-ear	2
Poa annua	Annual Meadow-grass	3
Sedge – unidentified	Sedge – unidentified	+

**General Fauna Observations**

Sheep dropped in quadrat.



**Quadrat Number:** 3

**Photograph Numbers**

1908-1912

**Easting** 452353

**Northing** 617336

**Survey Date** 11/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Bedrock

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 0

**Aspect** North

**Quadrat Description**

Low growing gorse dominated dry heath with protruding rocks. No evidence of visitor impacts. Area grazed by sheep.

**Quadrats Comments**

Quadrat occurs ca 40m south of hut, 10m west of track.

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

Dry Heath [4030]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Low growing dry heathland

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

Below surface

**Comments on Hydrology**

No surface water present.

**Quadrat Landuse**

Grazing - sheep

**Quadrat Grazing**

Area grazed by sheep

**Adjacent Landuse**

Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	95	<b>Litter cover</b>	15
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	80	<b>Rock cover</b>	5
<b>Herb Grass cover</b>	25	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	10	<b>Open Water cover</b>	0

**Height of vegetation cm** 20

**Height Shrub layer cm** 20

**Height Tree layer cm** 0

**Height Herb layer cm** 20

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	4
<i>Calluna vulgaris</i>	Ling Heather	5
<i>Carex binervis</i>	Green-ribbed Sedge	3
<i>Erica cinerea</i>	Bell Heather	5
<i>Festuca ovina</i>	Sheep's-fescue	4
<i>Hypnum jutlandicum</i>	Moss	3
<i>Luzula</i> sp.	Rush	1
<i>Molinia caerulea</i>	Purple Moor-grass	3
<i>Pedicularis sylvatica</i>	Lousewort	2
<i>Potentilla erecta</i>	Tormentil	3
<i>Rhytidiadelphus squarrosus</i>	Springy Turf-Moss	1
<i>Ulex gallii</i>	Western Gorse	8

**General Fauna Observations**

None





**Quadrat Number:** 4  
**Photograph Numbers**  
 1880-1884  
**Easting** 452602  
**Northing** 617336  
**Survey Date** 11/10/201  
**Surveyors**  
 Peter Foss & Brendan Kirwan  
**Substrate Type** Mineral Soil  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** Level  
**Aspect** South

**Quadrat Description**

Area of level of grassland at top of cliffs. People seen walking in to photograph cliff face. Localised trampling of grassland with some bare area in general vicinity. Moderate visitor impacts.

**Quadrats Comments**

Area where people go to photograph cliffs.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Grassy unpaved path to cliff edge

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Recreation  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	95	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	95	<b>Bare peat / Soil cover</b>	5
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	5	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	5

Species Latin Name	Species English Name	Species cover (Domin)
Poa annua	Annual Meadow-grass	10
Trifolium repens	White Clover	+

**General Fauna Observations**

None



**Quadrat Number:** 5

**Photograph Numbers**

1885-1889

**Easting** 452619

**Northing** 617338

**Survey Date** 11/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** 20

**Aspect** West

**Quadrat Description**

Area of dry heath with abundant bracken. No visitor impacts. No grazing.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

Dry Heath [4030]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Rank grassland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** No surface water present.

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	50	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	65	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	10	<b>Open Water cover</b>	0

**Height of vegetation cm** 50      **Height Shrub layer cm** 45

**Height Tree layer cm** 0      **Height Herb layer cm** 50

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	5
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	3
<i>Calluna vulgaris</i>	Ling Heather	4
<i>Erica cinerea</i>	Bell Heather	5
<i>Holcus lanatus</i>	Yorkshire-fog	3
<i>Hypochaeris radicata</i>	Cat's-ear	2
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	3
<i>Molinia caerulea</i>	Purple Moor-grass	3
<i>Oxalis acetosella</i>	Wood-sorrel	1
<i>Potentilla erecta</i>	Tormentil	2
<i>Pteridium aquilinum</i>	Bracken	7
<i>Rhytidiadelphus squarrosus</i>	Springy Turf-Moss	3
<i>Rumex acetosa</i>	Common Sorrel	+
<i>Ulex gallii</i>	Western Gorse	4

**General Fauna Observations**

None



**Quadrat Number:** 6

**Photograph Numbers**

1903-1907

**Easting** 452410

**Northing** 617371

**Survey Date** 11/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Rocky Till

**Stability** Very firm

**Substrate Depth** NA

**Slope Degrees** 5

**Aspect** North

**Quadrat Description**

Located in dry heath sloping to the north. Stone wall occurs ca 6m to the west with pathway to hut ca 5m to the east.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

Dry Heath [4030]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Grassy path verge

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

Below surface

**Comments on Hydrology**

No surface water present.

**Quadrat Landuse**

Grazing - sheep

**Quadrat Grazing**

Area grazed by sheep

**Adjacent Landuse**

Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	35	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	75	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	10	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	45	<b>Height Shrub layer cm</b>	45
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	45

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	4
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	3
<i>Festuca</i> sp.	Grass	3
<i>Galium saxatile</i>	Heath Bedstraw	3
Grass – unidentified	Grass – unidentified	4
<i>Holcus lanatus</i>	Yorkshire-fog	3
<i>Luzula</i> sp.	Rush	3
<i>Molinia caerulea</i>	Purple Moor-grass	4
<i>Potentilla erecta</i>	Tormentil	3
<i>Pteridium aquilinum</i>	Bracken	7
<i>Rhytidiadelphus squarrosus</i>	Springy Turf-Moss	3
<i>Solidago virgaurea</i>	Goldenrod	1
<i>Ulex gallii</i>	Western Gorse	7

### General Fauna Observations

Chough



**Quadrat Number:** 1

**Photograph Numbers**

2188-2192

**Easting** 431517

**Northing** 600772

**Survey Date** 14/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** level

**Aspect** NA

**Quadrat Description**

Area within centre car park to east of centre. Quadrat located on grassy area between car park bays, 100 cm above car park with stone wall as edging. Area is being mown. No obvious visitor impacts.

**Quadrats Comments**

Area likely to be fertilised.

**Habitat Type (Fossitt (2000))**

GA2 Amenity grassland (improved)

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Amenity grassland

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

Below surface

**Comments on Hydrology**

Grassy island is located 100 cm above car park surface with rocky wall on all sides.

**Quadrat Landuse**

Amenity Management

**Quadrat Grazing**

No evidence of grazing

**Adjacent Landuse**

Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	15
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	<5	<b>Open Water cover</b>	0

**Height of vegetation cm** 15

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 15

Species Latin Name	Species English Name	Species cover (Domin)
<i>Calliergonella cuspidata</i>	Pointed Spear Moss	3
<i>Cardamine pratensis</i>	Cuckooflower	2
<i>Cerastium fontanum</i>	Common Mouse-ear	3
<i>Eurhynchium striatum</i>	Common striated feather moss	3
<i>Festuca rubra</i>	Red Fescue	4
Grass – unidentified (probably <i>Lolium</i> )	Grass – unidentified	8
<i>Holcus lanatus</i>	Yorkshire-fog	4
<i>Ranunculus repens</i>	Creeping Buttercup	1
<i>Rumex acetosa</i>	Common Sorrel	+
<i>Taraxacum</i> agg.	Dandelion	2
<i>Trifolium repens</i>	White Clover	5
<i>Viola</i> sp.	Violet	2

**General Fauna Observations**

None





**Quadrat Number:** 2

**Photograph Numbers**

2183-2187

**Easting** 431493

**Northing** 600783

**Survey Date** 14/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** South

**Quadrat Description**

Car park area to east of centre. Quadrat located on grassy zone between car park bays. 30cm high stone wall at edge to car park. Ornamental flower bed on bank 1.5m to the east. Grassy area is mown. Adjacent to bicycle parking railings. No obvious visitor impacts.

**Quadrats Comments**

Area likely to be fertilised.

**Habitat Type (Fossitt (2000))**

GA2 Amenity grassland (improved)

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Grassy sod on top of wall

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** Well drained area

**Quadrat Landuse** Amenity Management  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	10
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	20	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	4	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	4

Species Latin Name	Species English Name	Species cover (Domin)
Cardamine pratensis	Cuckooflower	4
Eurhynchium striatum	Common striated feather moss	5
Festuca rubra	Red Fescue	5
Grass – unidentified	Grass – unidentified	4
Holcus lanatus	Yorkshire-fog	6
Luzula sp.	Rush	3
Plantago lanceolata	Ribwort Plantain	2
Rumex acetosa	Common Sorrel	+
Taraxacum agg.	Dandelion	5
Trifolium repens	White Clover	5
Viola sp.	Violet	1

**General Fauna Observations**

None



**Quadrat Number:** 3

**Photograph Numbers**

2200-2204

**Easting** 431448

**Northing** 600768

**Survey Date** 14/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** <5

**Aspect** South-East

**Quadrat Description**

Large grassy area to east of centre entrance. Separated from adjacent similar areas by footpaths from car park to visitor centre building, with flag pole in centre of area. There are areas of mown heather throughout the field, other area dominated by grassland. Area mown. No obvious visitor impacts.

**Quadrats Comments**

P Crushell visit to site earlier in year identified orchids in this field. No evidence of same found during current visit.

**Habitat Type (Fossitt (2000))**

GS3 Dry-humid acid grassland

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Grass heath field

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** Well drained area

**Quadrat Landuse** Amenity Management  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	25	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	85	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	10	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	10	<b>Height Shrub layer cm</b>	10
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	10

Species Latin Name	Species English Name	Species cover (Domin)
<i>Calluna vulgaris</i>	Ling Heather	5
<i>Festuca rubra</i>	Red Fescue	5
Grass – unidentified	Grass – unidentified	5
<i>Holcus lanatus</i>	Yorkshire-fog	5
<i>Hypochaeris radicata</i>	Cat's-ear	1
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	4
<i>Luzula</i> sp.	Rush	3
<i>Potentilla erecta</i>	Tormentil	3
<i>Prunella vulgaris</i>	Selfheal	4
<i>Rhytidiadelphus squarrosus</i>	Springy Turf-Moss	4
<i>Trifolium pratense</i>	Red Clover	7
<i>Trifolium repens</i>	White Clover	4

**General Fauna Observations**

None



**Quadrat Number:** 4

**Photograph Numbers**

2195-2199

**Easting** 431469

**Northing** 600746

**Survey Date** 14/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Large grassy area to east of centre entrance. Separated from adjacent similar areas by footpaths from car park to visitor centre building, with Fuchsia hedges along edge of area. There is a slight trampled path through field used by staff to access centre. No obvious visitor impacts.

**Quadrats Comments**

Area appear to be mown and likely to be fertilised.

**Habitat Type (Fossitt (2000))**

GS3 Dry-humid acid grassland

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Grassy field

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained area

**Quadrat Landuse** Amenity Management

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

**Total Vegetation cover** 100      **Litter cover** 0

**Tree cover** 0      **Algae cover** 0

**Shrub cover** 0      **Rock cover** 0

**Herb Grass cover** 100      **Bare peat / Soil cover** 0

**Bryophyte cover** 0      **Open Water cover** 0

**Height of vegetation cm** 5      **Height Shrub layer cm** 0

**Height Tree layer cm** 0      **Height Herb layer cm** 5

Species Latin Name	Species English Name	Species cover (Domin)
Grass – unidentified	Grass – unidentified	7
Holcus lanatus	Yorkshire-fog	5
Hydrocotyle vulgaris	Marsh Pennywort	3
Lotus corniculatus	Common Bird's-foot-trefoil	4
Luzula sp.	Rush	3
Potentilla erecta	Tormentil	3
Prunella vulgaris	Selfheal	3
Rumex acetosa	Common Sorrel	2
Succisa pratensis	Devil's-bit Scabious	2
Taraxacum agg.	Dandelion	2
Trifolium repens	White Clover	6

### General Fauna Observations

Arion ater



**Quadrat Number:** 5

**Photograph Numbers**

2206-2210

**Easting** 431395

**Northing** 600717

**Survey Date** 14/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** level

**Aspect** NA

**Quadrat Description**

Area of grassy path, underlain by plastic mesh. No obvious visitor impacts.

**Quadrats Comments**

Area of path, laid with plastic mesh in June/july of 2016 and re seeded and fertilised to avoid bare soil areas which had been created by visitors walking along back of centre to end of field to take photographs. Plans will extend path all the way to end of building. At present only 25m. of path with plastic mesh underlay. Soil was excavated and hardcore laid to create path.

**Habitat Type (Fossitt (2000))**

GA2 Amenity grassland (improved)

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Made ground and path with plastic mesh

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** Well drained area

**Quadrat Landuse** Amenity Management  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	90	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	90	<b>Bare peat / Soil cover</b>	10
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	5	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	5

Species Latin Name	Species English Name	Species cover (Domin)
Festuca rubra	Red Fescue	7
Lolium perenne	Perennial Rye-grass	7
Potentilla anserina	Silverweed	2
Prunella vulgaris	Selfheal	2
Ranunculus repens	Creeping Buttercup	2
Taraxacum agg.	Dandelion	2
Trifolium repens	White Clover	2

**General Fauna Observations**

None





**Quadrat Number:** 01  
**Photograph Numbers**  
 IMG1336 - IMG1340  
**Easting** 464477  
**Northing** 591112  
**Survey Date** 20/09/201  
**Surveyors**  
 P. Crushell & B. Kirwan  
**Substrate Type** Other  
**Stability** Very firm  
**Substrate Depth** Unknown  
**Slope Degrees** 0  
**Aspect** NA

**Quadrat Description**

Quadrat located on stones / sand along main access route to the beach. Habitat is heavily modified and resilient to any potential impacts by visitors.

**Quadrats Comments**

No vegetation recorded within quadrat that occurs at the foot of a concrete access point from carpark.

**Habitat Type (Fossitt (2000))**

CB1 Shingle and gravel banks

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Main access routes to the beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

Unknown

**Comments on Hydrology**

No surface water recorded within quadrat location.

**Quadrat Landuse**

Recreation

**Quadrat Grazing**

No evidence of grazing

**Adjacent Landuse**

Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	40
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	60
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 0

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 0

**Species Latin Name**

**Species English Name**

**Species cover (Domin)**

No floral observations were made

**General Fauna Observations**

None



**Quadrat Number:** 02

**Photograph Numbers**

IMG1341 - IMG1345

**Easting** 464490

**Northing** 591186

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Other

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** No slope.

**Aspect** NA

**Quadrat Description**

Quadrat located within beach on sandy shore.

**Quadrats Comments**

Quadrat recorded on beach, inter-tidal area subject to continual wave action.

**Habitat Type (Fossitt (2000))**

LR4 Mixed substrate shores

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

Unknown

**Comments on Hydrology**

On intertidal section of beach exposed to wave action.

**Quadrat Landuse**

Recreation

**Quadrat Grazing**

No evidence of grazing

**Adjacent Landuse**

Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	100
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 0

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 0

**Species Latin Name**

**Species English Name**

**Species cover (Domin)**

No floral observations were made

**General Fauna Observations**

None



**Quadrat Number:** 03

**Photograph Numbers**

IMG1346 - IMG1350

**Easting** 464653

**Northing** 591678

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Other

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** No slope

**Aspect** NA

**Quadrat Description**

Very tight grassland sward in degraded dunes caused by frequent trampling however, no evidence of erosion.

**Quadrats Comments**

Quadrat located adjacent to main beach in remnant area of dune between a carpark to the east and beach to the west. Vegetation comprises a tight sward of herbs subject to trampling though no erosion recorded. It appears as though this quadrat located on an unsurfaced pathway (a desire line).

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Grassland between beach and dunes

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Unknown

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	5
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 2 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 2

Species Latin Name	Species English Name	Species cover (Domin)
<i>Bellis perennis</i>	Daisy	3
<i>Festuca rubra</i>	Red Fescue	8
<i>Galium</i> sp.		3
<i>Leontodon autumnalis</i>	Cat's-ear	4
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	3
<i>Plantago coronopus</i>	Buck's-horn Plantain	4
<i>Plantago lanceolata</i>	Ribwort Plantain	6
<i>Plantago maritima</i>	Sea Plantain	3
<i>Rhytidiadelphus squarrosus</i>	Springy Turf-Moss	2
<i>Trifolium pratense</i>	Red Clover	7

### General Fauna Observations

Rabbit droppings.



**Quadrat Number:** 04

**Photograph Numbers**

IMG1166 - IMG1170

**Easting** 464606

**Northing** 591729

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Loose Rock

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** 0

**Aspect** NA

**Quadrat Description**

Natural exposed stoney bank, lacking vegetation. Heavily modified and relevelled as a car park area.

**Quadrats Comments**

No vegetation occurring on loose rocks and boulders.

**Habitat Type (Fossitt (2000))**

CB Shingle and gravel banks

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Modified stone bank

**Quadrat Condition**

1 - Good

<b>Water Table Depth cm</b>	Unknown
<b>Comments on Hydrology</b>	Dry stony shoreline.

<b>Quadrat Landuse</b>	Recreation
<b>Quadrat Grazing</b>	No evidence of grazing
<b>Adjacent Landuse</b>	None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	100
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	0	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	0

<b>Species Latin Name</b>	<b>Species English Name</b>	<b>Species cover (Domin)</b>
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No floral observations were made

**General Fauna Observations**

None



**Quadrat Number:** 05

**Photograph Numbers**

IMG1171 - IMG1175

**Easting** 464628

**Northing** 591808

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Loose Rock

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** 0

**Aspect** NA

**Quadrat Description**

Habitat comprises bank of rocks on exposed shore above high water. Resilient to any potential impacts. Heavily modified and relevelled as a car park area.

**Quadrats Comments**

Rocky substrate lacking vegetation. Resilient to any impacts from visitor pressure.

**Habitat Type (Fossitt (2000))**

CB Shingle and gravel banks

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Stony bank

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Unknown

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	3	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	100
<b>Herb Grass cover</b>	3	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 5      **Height Shrub layer cm** 0

**Height Tree layer cm** 0      **Height Herb layer cm** 0

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	1
<i>Tripleurospermum maritimum</i>	Sea Mayweed	+

**General Fauna Observations**

None



**Quadrat Number:** 06

**Photograph Numbers**

IMG1320 - IMG1324

**Easting** 464553

**Northing** 591052

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** No slope

**Aspect** NA

**Quadrat Description**

Quadrat located on surfaced path through salt marsh habitat. No obvious effects of path on surrounding habitat.

**Quadrats Comments**

No vegetation occurring on surfaced path.

**Habitat Type (Fossitt (2000))**

ED2 Spoil and bare ground

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Surfaced track, used by horses to access beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

Unknown

**Comments on Hydrology**

Open saline water pools adjacent to track.

**Quadrat Landuse**

Recreation

**Quadrat Grazing**

No evidence of grazing

**Adjacent Landuse**

Horse riding

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	100
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 0

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 0

**Species Latin Name**

**Species English Name**

**Species cover (Domin)**

No floral observations were made

**General Fauna Observations**

None





**Quadrat Number:** 07

**Photograph Numbers**

IMG1161 - IMG1165

**Easting** 464669

**Northing** 591756

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Other

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** 10

**Aspect** North

**Quadrat Description**

Large blow out in dunes likely to have evolved due to visitor pressures. Natural erosion also likely to contribute.

**Quadrats Comments**

Quadrat is located within a blowout near the foot of a marram dune.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Near the base of a large sand dune

**Quadrat Condition**

5 - Bad

**Water Table Depth cm** Unknown

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	100
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 0      **Height Shrub layer cm** 0

**Height Tree layer cm** 0      **Height Herb layer cm** 0

<b>Species Latin Name</b>	<b>Species English Name</b>	<b>Species cover (Domin)</b>
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No floral observations were made		
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**General Fauna Observations**

None



**Quadrat Number:** 08  
**Photograph Numbers**  
 IMG1176 - IMG1180  
**Easting** 464719  
**Northing** 591805  
**Survey Date** 20/09/201  
**Surveyors**  
 P. Crushell & B. Kirwan  
**Substrate Type** Sand  
**Stability** Firm  
**Substrate Depth** Unknown  
**Slope Degrees** 30  
**Aspect** South-East

**Quadrat Description**

Dune has much bare sand however unsure whether natural or antropogenic reasons.

**Quadrats Comments**

Eastern side of marram dunes.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Marram sand dune

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Unknown  
**Comments on Hydrology** Dry sand dune

**Quadrat Landuse** None  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	50	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	50	<b>Bare peat / Soil cover</b>	50
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	60	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	60

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	7
<i>Anthyllis vulneraria</i>	Kidney Vetch	3
<i>Festuca rubra</i>	Red Fescue	4
<i>Galium saxatile</i>	Heath Bedstraw	3
<i>Holcus lanatus</i>	Yorkshire-fog	1
<i>Leontodon autumnalis</i>	Cat's-ear	2
<i>Plantago lanceolata</i>	Ribwort Plantain	2
<i>Tripleurospermum maritimum</i>	Sea Mayweed	3

**General Fauna Observations**

None



**Quadrat Number:** 09

**Photograph Numbers**

IMG1186 - IMG1190

**Easting** 464696

**Northing** 591856

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Sand

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** 5

**Aspect** West

**Quadrat Description**

On exposed sand pathway through marram dunes.

**Quadrats Comments**

Mostly exposed sand.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Eroded path within fixed dune

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** Unknown

**Comments on Hydrology** Dry dune.

**Quadrat Landuse** Recreation

**Quadrat Grazing** Rabbits

**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	10	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	10	<b>Bare peat / Soil cover</b>	90
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 2 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 3

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	2
<i>Bellis perennis</i>	Daisy	2
<i>Carex arenaria</i>	Sand Sedge	1
<i>Festuca rubra</i>	Red Fescue	3
<i>Leontodon autumnalis</i>	Cat's-ear	2
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	1
<i>Plantago lanceolata</i>	Ribwort Plantain	3
<i>Senecio jacobaea</i>	Common Ragwort	4

**General Fauna Observations**

Rabbit droppings



**Quadrat Number:** 10  
**Photograph Numbers**  
 IMG1181 - IMG1185  
**Easting** 464713  
**Northing** 591830  
**Survey Date** 20/09/201  
**Surveyors**  
 P. Crushell & B. Kirwan  
**Substrate Type** Sand  
**Stability** Very firm  
**Substrate Depth** Unknown  
**Slope Degrees** 5  
**Aspect** North

**Quadrat Description**

Bare sand along unsurfaced path in marram dunes.

**Quadrats Comments**

Quadrat located on an obvious pathway across dune although vegetation largely intact.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Desire line within dune system

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** Unknown  
**Comments on Hydrology** Dry sand dune.

**Quadrat Landuse** Recreation  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	20	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	80
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	5	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	5

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	2
<i>Bellis perennis</i>	Daisy	1
<i>Carex arenaria</i>	Sand Sedge	3
<i>Galium verum</i>	Lady's Bedstraw	5
<i>Leontodon autumnalis</i>	Cat's-ear	2
<i>Plantago lanceolata</i>	Ribwort Plantain	4
<i>Senecio jacobaea</i>	Common Ragwort	+
<i>Viola</i> sp.		+

**General Fauna Observations**

None



**Quadrat Number:** 11  
**Photograph Numbers**  
 IMG1329 - IMG1333  
**Easting** 464551  
**Northing** 591054  
**Survey Date** 20/09/201  
**Surveyors**  
 P. Crushell & B. Kirwan  
**Substrate Type** Silt  
**Stability** Firm  
**Substrate Depth** Unknown  
**Slope Degrees** No slope  
**Aspect** NA

**Quadrat Description**

Saltmarsh habitat appears undisturbed although adjacent to surfaced path.

**Quadrats Comments**

Quadrat is located ca 3m north of an existing access track, within upper salt marsh.

**Habitat Type (Fossitt (2000))**

CM2 Upper salt marsh

**EU Habitat Type**

Atlantic salt meadows [1330]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Undisturbed salt marsh adjacent to path

**Quadrat Condition**

1 - Good

**Water Table Depth cm** -5

**Comments on Hydrology** A linear saline pool crosses quadrat and other pools occur in surroundings.

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	50	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	50

**Height of vegetation cm** 5 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 5



Species Latin Name	Species English Name	Species cover (Domin)
<i>Armeria maritima</i>	Thrift	3
<i>Aster tripolium</i>	Sea Aster	3
<i>Festuca rubra</i>	Red Fescue	7
<i>Glaux maritima</i>	Sea-milkwort	5
<i>Plantago maritima</i>	Sea Plantain	3
<i>Salicornia</i> sp.		3
<i>Triglochin maritima</i>	Sea Arrowgrass	3

**General Fauna Observations**

Crab



**Quadrat Number:** 12  
**Photograph Numbers**  
 IMG1196 - IMG1200  
**Easting** 464661  
**Northing** 591956  
**Survey Date** 20/09/201  
**Surveyors**  
 P. Crushell & B. Kirwan  
**Substrate Type** Sand  
**Stability** Very firm  
**Substrate Depth** Unknown  
**Slope Degrees** 10  
**Aspect** South

**Quadrat Description**

Intact marram dunes with camp fire nearby.

**Quadrats Comments**

Marram dominated dune.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Intact fixed dune

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Unknown

**Comments on Hydrology** Dry dune.

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	60	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	60

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	9
<i>Anthyllis vulneraria</i>	Kidney Vetch	4
<i>Carex arenaria</i>	Sand Sedge	3
<i>Festuca rubra</i>	Red Fescue	5
<i>Galium saxatile</i>	Heath Bedstraw	2
<i>Galium verum</i>	Lady's Bedstraw	3
<i>Holcus lanatus</i>	Yorkshire-fog	1
<i>Leontodon autmnalis</i>	Cat's-ear	1
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	2
<i>Plantago lanceolata</i>	Ribwort Plantain	1

**General Fauna Observations**

None



**Quadrat Number:** 13  
**Photograph Numbers**  
 IMG1191 - IMG1195  
**Easting** 464685  
**Northing** 591930  
**Survey Date** 20/09/201  
**Surveyors**  
 P. Crushell & B. Kirwan  
**Substrate Type** Sand  
**Stability** Very firm  
**Substrate Depth** Unknown  
**Slope Degrees** 0  
**Aspect** South

**Quadrat Description**

Quadrat located within an area of intact marram dune with no erosion observed in proximity to the quadrat.

**Quadrats Comments**

Quadrat located within intact marram dominated dune.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Intact fixed dune

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Unknown  
**Comments on Hydrology** Dry sand dune.

**Quadrat Landuse** None  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	10
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	50	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	50

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	9
<i>Carex arenaria</i>	Sand Sedge	3
<i>Euphorbia</i> sp.		+
<i>Festuca rubra</i>	Red Fescue	7
<i>Galium verum</i>	Lady's Bedstraw	4
<i>Leontodon autumnalis</i>	Cat's-ear	1
<i>Plantago lanceolata</i>	Ribwort Plantain	3
<i>Veronica chamaedrys</i>	Germander Speedwell	2

**General Fauna Observations**

Wolf spider



**Quadrat Number:** 14  
**Photograph Numbers**  
 IMG1201 - IMG1205  
**Easting** 464720  
**Northing** 591960  
**Survey Date** 20/09/201  
**Surveyors**  
 P. Crushell & B. Kirwan  
**Substrate Type** Sand  
**Stability** Very firm  
**Substrate Depth** Unknown  
**Slope Degrees** 5  
**Aspect** East

**Quadrat Description**

Quadrat located within an area of intact marram dune with no evidence of trampling / erosion or grazing. Surrounding dunes subject to amenity use, camp fires etc are common.

**Quadrats Comments**

Quadrat located within an area of intact marram dune.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Fixed dune

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Unknown  
**Comments on Hydrology** Dry dune.

**Quadrat Landuse** None  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Walking

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	10
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	60	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	60

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	9
<i>Carex arenaria</i>	Sand Sedge	2
<i>Euphorbia paralias</i>	Sea Spurge	+
<i>Festuca rubra</i>	Red Fescue	4
<i>Galium verum</i>	Lady's Bedstraw	3
<i>Holcus lanatus</i>	Yorkshire-fog	2
<i>Plantago lanceolata</i>	Ribwort Plantain	2

**General Fauna Observations**

None



**Quadrat Number:** 15

**Photograph Numbers**

IMG1206 - IMG1210

**Easting** 464696

**Northing** 592040

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** Unknown

**Slope Degrees** 10

**Aspect** West

**Quadrat Description**

Quadrat located within fore dune blow out with evidence of pathway use. Widespread erosion within this area and no vegetation present. Natural erosion is a feature of the dunes at Rossbeigh, with visitor pressure likely contributing also.

**Quadrats Comments**

Quadrat is located on bare sand within blow out near the base of marram dunes, significant erosion occurs throughout this area.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Eroding fore dune with evidence of pathway use

**Quadrat Condition**

5 - Bad

**Water Table Depth cm** Unknown

**Comments on Hydrology** Dry dune.

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Walking

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	100
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 0      **Height Shrub layer cm** 0

**Height Tree layer cm** 0      **Height Herb layer cm** 0

Species Latin Name	Species English Name	Species cover (Domin)
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No floral observations were made		
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**General Fauna Observations**

None





**Quadrat Number:** 01

**Photograph Numbers**

IMG1282 - IMG1287

**Easting** 460398

**Northing** 589059

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** Moderate

**Aspect** North

**Quadrat Description**

Former heath area disturbed due to continuous trampling by visitors. Substrate likely to originate from adjacent road works undertaken in past.

**Quadrats Comments**

Area subject to high footfall.

**Habitat Type (Fossitt (2000))**

ED2 Spoil and bare ground

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Heavily trampled area immediately north of layby.

**Quadrat Condition**

5 - Bad

**Water Table Depth cm**

Unknown

**Comments on Hydrology**

Dry site with no surface water features.

**Quadrat Landuse**

Recreation

**Quadrat Grazing**

No evidence of grazing

**Adjacent Landuse**

Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	5	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	5	<b>Bare peat / Soil cover</b>	95
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 1

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 1

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	1
<i>Festuca rubra</i>	Red Fescue	2
<i>Leontodon autumnalis</i>	Cat's-ear	+
<i>Plantago lanceolata</i>	Ribwort Plantain	+
<i>Rubus fruticosus</i> agg.	Blackberry	4
<i>Trifolium pratense</i>	Red Clover	1
<i>Tripleurospermum maritimum</i>	Sea Mayweed	+

**General Fauna Observations**

None



**Quadrat Number:** 02

**Photograph Numbers**

IMG1288 - IMG1292

**Easting** 460419

**Northing** 589062

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** Moderate

**Aspect** North

**Quadrat Description**

Area heavily trampled by visitors.

**Quadrats Comments**

Sparse cover of low grasses with extensive bare soil.

**Habitat Type (Fossitt (2000))**

ED2 Spoil and bare ground

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Heavily trampled heath immediately north of layby.

**Quadrat Condition**

5 - Bad

**Water Table Depth cm**

Unknown

**Comments on Hydrology**

Dry site, no surface water features close by.

**Quadrat Landuse**

Recreation

**Quadrat Grazing**

No evidence of grazing

**Adjacent Landuse**

Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	40	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	40	<b>Bare peat / Soil cover</b>	60
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm**

2

**Height Shrub layer cm**

0

**Height Tree layer cm**

0

**Height Herb layer cm**

2

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	4
<i>Festuca rubra</i>	Red Fescue	4
<i>Leontodon autumnalis</i>	Cat's-ear	4
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	3
<i>Plantago major</i>	Greater Plantain	1
<i>Plantago maritima</i>	Sea Plantain	1
<i>Trifolium pratense</i>	Red Clover	2

**General Fauna Observations**

None



**Quadrat Number:** 03

**Photograph Numbers**

IMG1294 - IMG1298

**Easting** 460445

**Northing** 589061

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Loose Rock

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** 2

**Aspect** North

**Quadrat Description**

Impacts from trampling evident on heathland vegetation within quadrat which occurs immediately north of heavily trampled bare ground.

**Quadrats Comments**

Adjacent to heavily trampled area with evidence of trampling within the quadrat. Inaccessible heath / rock outcrop immediately north of quadrat and layby / road to the south.

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Heath with scrub encroachment immediately north of heavily trampled area.

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** Unknown

**Comments on Hydrology** None

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	80	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	15	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	80	<b>Bare peat / Soil cover</b>	20
<b>Bryophyte cover</b>	5	<b>Open Water cover</b>	0

**Height of vegetation cm** 10      **Height Shrub layer cm** 30

**Height Tree layer cm** 0      **Height Herb layer cm** 5

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	4
<i>Calluna vulgaris</i>	Ling Heather	4
<i>Festuca rubra</i>	Red Fescue	4
<i>Juncus squarrosus</i>	Heath Rush	4
<i>Leontodon autumnalis</i>	Cat's-ear	4
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	3
<i>Luzula sp.</i>		1
<i>Plantago lanceolata</i>	Ribwort Plantain	5
<i>Prunella vulgaris</i>	Selfheal	2
<i>Ranunculus repens</i>	Creeping Buttercup	+
<i>Senecio jacobaea</i>	Common Ragwort	+
<i>Teucrium scorodonia</i>	Wood Sage	4

**General Fauna Observations**

None



**Quadrat Number:** 04

**Photograph Numbers**

IMG1299 - IMG1303

**Easting** 460381

**Northing** 589062

**Survey Date** 20/09/201

**Surveyors**

P. Crushell & B. Kirwan

**Substrate Type** Loose Rock

**Stability** Very firm

**Substrate Depth** Unknown

**Slope Degrees** 3

**Aspect** North

**Quadrat Description**

Heathland area immediately north of bare ground heavily trampled by visitors. Scattered litter from visitors occurs locally.

**Quadrats Comments**

Dry heath with scrub (bramble) locally occurring. Immediately adjacent to heavily trampled bare ground to the south and inaccessible heath / rock outcrop to the north. Minor impacts from trampling evident within the quadrat.

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Scrub encroachment on dry Heath, immediately adjacent to bare ground.

**Quadrat Condition**

4 - Poor

**Water Table Depth cm**

Unknown

**Comments on Hydrology**

No surface water features recorded in proximity to the quadrat location.

**Quadrat Landuse**

Recreation

**Quadrat Grazing**

No evidence of grazing

**Adjacent Landuse**

Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	80	<b>Litter cover</b>	3
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	60	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	20	<b>Bare peat / Soil cover</b>	15
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 30

**Height Shrub layer cm** 30

**Height Tree layer cm** 0

**Height Herb layer cm** 30

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	2
<i>Calluna vulgaris</i>	Ling Heather	4
<i>Festuca rubra</i>	Red Fescue	4
<i>Hypericum pulchrum</i>	Slender St John's-wort	+
<i>Juncus squarrosus</i>	Heath Rush	1
<i>Leontodon autumnalis</i>	Cat's-ear	2
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	3
<i>Plantago lanceolata</i>	Ribwort Plantain	4
<i>Rubus fruticosus</i> agg.	Blackberry	6
<i>Sorbus aucuparia</i>	Rowan	+
<i>Trifolium pratense</i>	Red Clover	+

**General Fauna Observations**

None





**Quadrat Number:** 05  
**Photograph Numbers**  
 IMG1304 - IMG 1309  
**Easting** 460359  
**Northing** 589039  
**Survey Date** 20/09/201  
**Surveyors**  
 P. Crushell & B. Kirwan  
**Substrate Type** Peat  
**Stability** Very firm  
**Substrate Depth** Unknown  
**Slope Degrees** 35  
**Aspect** North

**Quadrat Description**

Adjacent to busy road, however no indication of disturbance in heathland. Quadrat location was moved from across the road as the original location is inaccessible.

**Quadrats Comments**

Quadrat is located within an area of dry heath immediately south of the road with exposed rock on steep excavated slope.

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

Dry Heath [4030]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Quadrat relocated to southern side of the road due to inaccessibility on the north. Quadrat located within dry heath on steep slope.

**Quadrat Condition**

2 - Fair

**Water Table Depth cm**

Unknown

**Comments on Hydrology**

No surface water features recorded in proximity to the quadrat location.

**Quadrat Landuse**

None

**Quadrat Grazing**

No evidence of grazing

**Adjacent Landuse**

Roads

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	50	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	10	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	60	<b>Open Water cover</b>	0

**Height of vegetation cm** 40

**Height Shrub layer cm** 40

**Height Tree layer cm** 0

**Height Herb layer cm** 15

Species Latin Name	Species English Name	Species cover (Domin)
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	4
<i>Betula pubescens</i>	Downy Birch	1
<i>Calluna vulgaris</i>	Ling Heather	5
<i>Erica cinerea</i>	Bell Heather	4
<i>Erica tetralix</i>	Cross-leaved Heath	2
<i>Hylocomium splendens</i>	Red Feather Moss	8
<i>Hypericum pulchrum</i>	Slender St John's-wort	2
<i>Leontodon autumnalis</i>	Cat's-ear	4
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	5
<i>Molinia caerulea</i>	Purple Moor-grass	4
<i>Plantago lanceolata</i>	Ribwort Plantain	3
<i>Potentilla reptans</i>	Creeping Cinquefoil	1
<i>Pseudoscleropodium purum</i>	Moss	3
<i>Rubus fruticosus</i> agg.	Blackberry	2
<i>Teucrium scorodonia</i>	Wood Sage	4
<i>Ulex gallii</i>	Western Gorse	4

**General Fauna Observations**

None



**Quadrat Number:** 06  
**Photograph Numbers**  
 IMG1312 - IMG1316  
**Easting** 460500  
**Northing** 589054  
**Survey Date** 20/09/201  
**Surveyors**  
 P. Crushell & B. Kirwan  
**Substrate Type** Peat  
**Stability** Very firm  
**Substrate Depth** Unknown  
**Slope Degrees** 3  
**Aspect** North

**Quadrat Description**

Reasonably intact dry heath with some evidence of trampling.

**Quadrats Comments**

Area of dry Heath ca 5m east of layby carpark. Heath is elevated (c1m) above the road on flat land. Willow scrub occurs immediately north of quadrat with the road occurring ca 4m south.

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

Dry Heath [4030]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

5m east of the lay by on dry Heath.

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Unknown

**Comments on Hydrology** None

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Roads

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	40	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	70	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	30	<b>Height Shrub layer cm</b>	30
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	20

Species Latin Name	Species English Name	Species cover (Domin)
<i>Calluna vulgaris</i>	Ling Heather	5
<i>Erica cinerea</i>	Bell Heather	4
<i>Festuca rubra</i>	Red Fescue	4
<i>Holcus lanatus</i>	Yorkshire-fog	3
<i>Hypericum pulchrum</i>	Slender St John's-wort	4
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	5
<i>Plantago lanceolata</i>	Ribwort Plantain	4
<i>Rubus fruticosus</i> agg.	Blackberry	4
<i>Teucrium scorodonia</i>	Wood Sage	4
<i>Ulex gallii</i>	Western Gorse	+

**General Fauna Observations**

None



**Quadrat Number:** 1  
**Photograph Numbers**  
 1765-1769  
**Easting** 457757  
**Northing** 546040  
**Survey Date** 10/10/201  
**Surveyors**  
 Peter Foss & Brendan Kirwan  
**Substrate Type** Made Ground  
**Stability** Very firm  
**Substrate Depth** na  
**Slope Degrees** level  
**Aspect** NA

**Quadrat Description**

Area of hard core forming part of car park, 1 m from retaining wall. Visitor impacts consists of trampling of grasses in car park.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

ED3 Recolonising bare ground

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Made ground in car park

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Below surface  
**Comments on Hydrology** Hard core area of car park well drained.

**Quadrat Landuse** Amenity Management  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	25	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	25	<b>Bare peat / Soil cover</b>	75
<b>Bryophyte cover</b>	<5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	2	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	2

Species Latin Name	Species English Name	Species cover (Domin)
Acrocarpus moss – unidentified	Acrocarpus moss – unidentified	3
Bellis perennis	Daisy	+
Cirsium sp.	Thistle	+
Festuca rubra	Red Fescue	3
Geranium sp.	Wild geranium	2
Hypochaeris radicata	Cat's-ear	+
Plantago lanceolata	Ribwort Plantain	2
Poa annua	Annual Meadow-grass	4
Sagina procumbens	Procumbent Pearlwort	2
Senecio jacobaea	Common Ragwort	2
Taraxacum agg.	Dandelion	3

**General Fauna Observations**

None



**Quadrat Number:** 2

**Photograph Numbers**

1770-1774

**Easting** 457767

**Northing** 546020

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Made Ground

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Area of hardcore car park directly adjacent to retaining wall. Main visitor impact comes from trampling of vegetation.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

ED3 Recolonising bare ground

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Made ground in car park

**Quadrat Condition**

2 - Fair

**Water Table Depth cm**

Below surface

**Comments on Hydrology**

Well drained hardcore area in car park

**Quadrat Landuse**

Amenity Management

**Quadrat Grazing**

No evidence of grazing

**Adjacent Landuse**

Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	30	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	30	<b>Bare peat / Soil cover</b>	70
<b>Bryophyte cover</b>	<5	<b>Open Water cover</b>	0

**Height of vegetation cm** 15

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 15

Species Latin Name	Species English Name	Species cover (Domin)
Acrocarpus moss – unidentified	Acrocarpus moss – unidentified	3
Agrostis stolonifera	Creeping Bent	3
Daucus carota	Wild Carrot	+
Festuca rubra	Red Fescue	4
Holcus lanatus	Yorkshire-fog	4
Hypochaeris radicata	Cat's-ear	+
Plantago <i>cmajor</i>	Buck's-horn Plantain	1
plantago coronopus	Buck's-horn Plantain	2
Plantago maritima	Sea Plantain	3
Rumex crispus	Curled dock	1
Senecio jacobaea	Common Ragwort	+
Taraxacum agg.	Dandelion	2

**General Fauna Observations**

None





**Quadrat Number:** 3

**Photograph Numbers**

1775-1779

**Easting** 457765

**Northing** 545995

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Rocky Till

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** North

**Quadrat Description**

Area of bare mine spoil with regenerating grassland/heath vegetation. No obvious visitor impacts observed.

**Quadrats Comments**

Possibly on mine spoil.

**Habitat Type (Fossitt (2000))**

ED3 Recolonising bare ground

**EU Habitat Type**

Calaminarian grasslands [6130]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Heath on mine spoil

**Quadrat Condition**

1 - Good

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	None
<b>Quadrat Grazing</b>	No evidence of grazing
<b>Adjacent Landuse</b>	None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	30	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	20	<b>Rock cover</b>	15
<b>Herb Grass cover</b>	10	<b>Bare peat / Soil cover</b>	55
<b>Bryophyte cover</b>	<5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	15	<b>Height Shrub layer cm</b>	10
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	15

Species Latin Name	Species English Name	Species cover (Domin)
Agrostis sp.	Grass	1
Armeria maritima	Thrift	4
Calluna vulgaris	Ling Heather	5
Festuca rubra	Red Fescue	4
Hypochaeris radicata	Cat's-ear	1
Jasione montana	Sheep's-bit	4
Plantago lanceolata	Ribwort Plantain	3
Ulex gallii	Western Gorse	3

**General Fauna Observations**

None



**Quadrat Number:** 4

**Photograph Numbers**

1780-1784

**Easting** 457739

**Northing** 545969

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Rocky Till

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** North

**Quadrat Description**

Area of mine spoil adjacent to deep mine shaft with minimal plant colonisation. No visitors impacts observed.

**Quadrats Comments**

Fenced off mine shaft close by.

**Habitat Type (Fossitt (2000))**

ED3 Recolonising bare ground

**EU Habitat Type**

Calaminarian grasslands [6130]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Mine spoil with heath

**Quadrat Condition**

1 - Good

**Water Table Depth cm**

Below surface

**Comments on Hydrology**

Well drained till 5 m from deep mine shaft.

**Quadrat Landuse**

None

**Quadrat Grazing**

No evidence of grazing

**Adjacent Landuse**

None

**Structure Quadrat Cover Values %**

**Total Vegetation cover**

10

**Litter cover**

0

**Tree cover**

0

**Algae cover**

0

**Shrub cover**

0

**Rock cover**

10

**Herb Grass cover**

10

**Bare peat / Soil cover**

80

**Bryophyte cover**

0

**Open Water cover**

0

**Height of vegetation cm**

2

**Height Shrub layer cm**

0

**Height Tree layer cm**

0

**Height Herb layer cm**

2

Species Latin Name	Species English Name	Species cover (Domin)
Armeria maritima	Thrift	4

**General Fauna Observations**

None



**Quadrat Number:** 5

**Photograph Numbers**

1787-1791

**Easting** 457734

**Northing** 545974

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Peat

**Stability** Firm

**Substrate Depth** 25

**Slope Degrees** 5

**Aspect** North

**Quadrat Description**

Area of low growing intact heathland 25 m from cliff edge. Surrounded by area of bare mine waste spoil. No visitor impacts, no grazing.

**Quadrats Comments**

Fenced off mine shaft close by.

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

Calaminarian grasslands [6130]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Heathland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** None  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	55
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	75	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	20	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	15	<b>Height Shrub layer cm</b>	15
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	15

Species Latin Name	Species English Name	Species cover (Domin)
<i>Anthyllis vulneraria</i>	Kidney Vetch	2
<i>Armeria maritima</i>	Thrift	2
<i>Calluna vulgaris</i>	Ling Heather	8
<i>Erica cinerea</i>	Bell Heather	5
<i>Festuca rubra</i>	Red Fescue	4
<i>Hypnum jutlandicum</i>	Moss	3
<i>Jasione montana</i>	Sheep's-bit	3
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	4
<i>Plantago maritima</i>	Sea Plantain	1
<i>Trifolium pratense</i>	Red Clover	3

**General Fauna Observations**

None



**Quadrat Number:** 6

**Photograph Numbers**

1798-1802

**Easting** 457705

**Northing** 545940

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Peat

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** <5

**Aspect** West

**Quadrat Description**

Area of dry heath 5m from cliff edge and 10m north of stone wall. No grazing. No visitor impacts.

**Quadrats Comments**

Nne

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

Dry Heath [4030]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Heathland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** None  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	55
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	75	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	25	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	55	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	55

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	5
<i>Angelica sylvestris</i>	Wild Angelica	1
<i>Armeria maritima</i>	Thrift	3
<i>Calluna vulgaris</i>	Ling Heather	8
<i>Erica cinerea</i>	Bell Heather	4
<i>Festuca rubra</i>	Red Fescue	5
<i>Holcus lanatus</i>	Yorkshire-fog	5
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	2
<i>Potentilla erecta</i>	Tormentil	3
<i>Rumex acetosa</i>	Common Sorrel	3
<i>Trifolium repens</i>	White Clover	3

**General Fauna Observations**

None





**Quadrat Number:** 7

**Photograph Numbers**

1803-1807

**Easting** 457735

**Northing** 546040

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Peat

**Stability** Firm

**Substrate Depth** <30

**Slope Degrees** <5

**Aspect** West

**Quadrat Description**

Area of heathland between park and bare headland, with unpaved path worn by visitors going to headland to take photographs. Path is worn so that bare peat occurs along a significant length of path. No grazing. Significant visitor impacts along path.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

Dry Heath [4030]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Grassy unpaved path

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Recreation  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	80	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	35	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	45	<b>Bare peat / Soil cover</b>	20
<b>Bryophyte cover</b>	<5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	1-10	<b>Height Shrub layer cm</b>	10
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	1-10

Species Latin Name	Species English Name	Species cover (Domin)
Agrostis sp.	Grass	2
Anthyllis vulneraria	Kidney Vetch	1
Armeria maritima	Thrift	5
Calluna vulgaris	Ling Heather	5
Erica cinerea	Bell Heather	4
Festuca rubra	Red Fescue	1
Holcus lanatus	Yorkshire-fog	3
Hypochaeris radicata	Cat's-ear	3
Lotus corniculatus	Common Bird's-foot-trefoil	2
Plantago lanceolata	Ribwort Plantain	2
Poa annua	Annual Meadow-grass	3
Trifolium repens	White Clover	3

**General Fauna Observations**

None



**Quadrat Number:** 8

**Photograph Numbers**

1808-1812

**Easting** 457707

**Northing** 546068

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Rocky Till

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 20

**Aspect** West

**Quadrat Description**

Area of dry heath on mine spoil. Poor cover throughout much of area. No grazing. No obvious visitor impacts. Rabbit droppings in quadrat.

**Quadrats Comments**

On mine spoil.

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

Calaminarian grasslands [6130]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Wind pruned heathland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** None  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	25	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	25	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	75
<b>Bryophyte cover</b>	<5	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	15	<b>Height Shrub layer cm</b>	15
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	0

Species Latin Name	Species English Name	Species cover (Domin)
Acrocarpus moss – unidentified	Acrocarpus moss – unidentified	3
Calluna vulgaris	Ling Heather	5

**General Fauna Observations**

Rabbit.



**Quadrat Number:** 2

**Photograph Numbers**

1709-1713

**Easting** 450768

**Northing** 541909

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Quadrat at edge of car park on bank. Some bare soil/gravel areas. Increased grass cover since last years visit. Moderate visitor trampling.

**Quadrats Comments**

Mound more vegetated than last year. Large heap of pebbles dumped in car park area, likely to be used for surfacing car park.

**Habitat Type (Fossitt (2000))**

GS1 Dry calcareous and neutral grassland

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Earth mound edge of car park

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** Amenity Management

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	90	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	90	<b>Bare peat / Soil cover</b>	10
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 3 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 3

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	4
<i>Festuca rubra</i>	Red Fescue	8
<i>Hypochaeris radicata</i>	Cat's-ear	+
<i>Luzula</i> sp.	Rush	3
<i>Rumex acetosella</i>	Sheep's Sorrel	3
<i>Trifolium repens</i>	White Clover	+

**General Fauna Observations**

None



**Quadrat Number:** 3  
**Photograph Numbers**  
 1714-1718  
**Easting** 450727  
**Northing** 541938  
**Survey Date** 10/10/201  
**Surveyors**  
 Peter Foss & Brendan Kirwan  
**Substrate Type** Made Ground  
**Stability** Very firm  
**Substrate Depth** na  
**Slope Degrees** <5  
**Aspect** South

**Quadrat Description**

Made ground /trackway to steps over fence. Some water seepage. Heavily trampled by visitors.

**Quadrats Comments**

No improvement made to area since last years survey.

**Habitat Type (Fossitt (2000))**

ED1 Exposed sand, gravel or till

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Eroded unpaved path

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** At surface  
**Comments on Hydrology** Water seeping over surface towards the south

**Quadrat Landuse** Recreation  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Amenity Management

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	5	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	5	<b>Bare peat / Soil cover</b>	95
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	3	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	3

Species Latin Name	Species English Name	Species cover (Domin)
Bellis perennis	Daisy	1
Festuca rubra	Red Fescue	1
Juncus articulatus	Jointed Rush	3
Poa annua	Annual Meadow-grass	3

**General Fauna Observations**

Chough, Dolphin in bay. Tortoiseshell butterfly.





**Quadrat Number:** 4

**Photograph Numbers**

1734-1738

**Easting** 450726

**Northing** 542023

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** <5

**Aspect** South

**Quadrat Description**

Almost completely bare soil/gravel area in centre if unsurfaced path from carpark along route to headland. Visible visitor impacts but significant grazing impact also likely to occur.

**Quadrats Comments**

Wet seepage line area.

**Habitat Type (Fossitt (2000))**

ED3 Recolonising bare ground

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Unpaved visitor path with bare soil exposed

**Quadrat Condition**

4 - Poor

**Water Table Depth cm**

Near surface

**Comments on Hydrology**

Small seepage runnel immediately east of quadrat.

**Quadrat Landuse**

Recreation/Grazing

**Quadrat Grazing**

Area grazed by sheep

**Adjacent Landuse**

Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	5	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	5	<b>Bare peat / Soil cover</b>	95
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 1

**Height Shrub layer cm** 0

**Height Tree layer cm** 0

**Height Herb layer cm** 1

Species Latin Name	Species English Name	Species cover (Domin)
Acrocarpus moss – unidentified	Acrocarpus moss – unidentified	3
Agrostis stolonifera	Creeping Bent	1
Plantago maritima	Sea Plantain	4

**General Fauna Observations**

None



**Quadrat Number:** 6

**Photograph Numbers**

1724-1728

**Easting** 450679

**Northing** 541985

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** South-West

**Quadrat Description**

Heavily grazed maritime grassland 6m from rocky cliffs. Sheep droppings in quadrat. No visible visitor impacts but significant grazing impact.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

GS3 Dry-humid acid grassland

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Maritime grassland on headland

**Quadrat Condition**

1 - Good

<b>Water Table Depth cm</b>	Below surface
<b>Comments on Hydrology</b>	No surface water present.

<b>Quadrat Landuse</b>	Grazing - sheep
<b>Quadrat Grazing</b>	Area grazed by sheep
<b>Adjacent Landuse</b>	Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	1	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	1

Species Latin Name	Species English Name	Species cover (Domin)
Agrostis sp.	Grass	2
Calluna vulgaris	Ling Heather	3
Carex panicea	Carnation Sedge	4
Cerastium fontanum	Common Mouse-ear	+
Festuca ovina	Sheep's-fescue	5
Plantago coronopus	Buck's-horn Plantain	6
Plantago maritima	Sea Plantain	6
Sedge – unidentified	Sedge – unidentified	4
Trifolium repens	White Clover	4

### General Fauna Observations

Red admiral butterfly.



**Quadrat Number:** 7

**Photograph Numbers**

1729-1733

**Easting** 450719

**Northing** 542004

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** <5

**Aspect** West

**Quadrat Description**

Level area of maritime grassland, dominated by plantago species. Heavily sheep grazed. No obvious visitor impacts.

**Quadrats Comments**

Very low growing sward.

**Habitat Type (Fossitt (2000))**

GS3 Dry-humid acid grassland

**EU Habitat Type**

NA

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Maritime grassland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Grazing - sheep  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	3	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	3

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	2
<i>Anagallis tenella</i>	Bog Pimpernel	4
<i>Bellis perennis</i>	Daisy	4
<i>Carex panicea</i>	Carnation Sedge	3
<i>Festuca ovina</i>	Sheep's-fescue	5
<i>Hypochaeris radicata</i>	Cat's-ear	2
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	3
<i>plantago coronopus</i>	Buck's-horn Plantain	6
<i>Plantago maritima</i>	Sea Plantain	6
<i>Potentilla anserina</i>	Silverweed	+

**General Fauna Observations**

None



**Quadrat Number:** 8

**Photograph Numbers**

1719-1723

**Easting** 450736

**Northing** 541915

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Peat

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 10-15

**Aspect** South

**Quadrat Description**

Area of dry heath on slope from car park to cable car mast. No visitor impacts observed.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

HH1 Dry siliceous heath

**EU Habitat Type**

Dry Heath [4030]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Heath

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Grazing - sheep  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	<5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	65	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	65	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	5	<b>Height Shrub layer cm</b>	5
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	5

Species Latin Name	Species English Name	Species cover (Domin)
Anagallis tenella	Bog Pimpernel	3
Calluna vulgaris	Ling Heather	8
Carex panicea	Carnation Sedge	4
Erica cinerea	Bell Heather	5
Festuca ovina	Sheep's-fescue	7
Holcus lanatus	Yorkshire-fog	4
Hypochaeris radicata	Cat's-ear	4
Lotus corniculatus	Common Bird's-foot-trefoil	4
Luzula multiflora	Heath Wood-rush	3
Plantago lanceolata	Ribwort Plantain	4
Plantago maritima	Sea Plantain	4
Potentilla erecta	Tormentil	2
Trifolium repens	White Clover	4

**General Fauna Observations**

None





**Quadrat Number:** 10

**Photograph Numbers**

1739-1743

**Easting** 450761

**Northing** 542017

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** level

**Aspect** NA

**Quadrat Description**

Area of grassland at bases of rock face 2m away. No obvious visitor impacts.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

GS3 Dry-humid acid grassland

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Wet grassland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** Damp ground

**Quadrat Landuse** Grazing - sheep

**Quadrat Grazing** Area grazed by sheep

**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	50	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	45	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	45

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	3
<i>Cerastium fontanum</i>	Common Mouse-ear	3
<i>Festuca ovina</i>	Sheep's-fescue	5
<i>Holcus lanatus</i>	Yorkshire-fog	4
<i>Hypnum jutlandicum</i>	Moss	4
<i>Juncus articulatus</i>	Jointed Rush	6
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	3
<i>Luzula</i> sp.	Rush	3
<i>Potentilla erecta</i>	Tormentil	2
<i>Prunella vulgaris</i>	Selfheal	+
<i>Rhytidiadelphus squarrosus</i>	Springy Turf-Moss	5
<i>Rumex acetosa</i>	Common Sorrel	3
<i>Trifolium repens</i>	White Clover	5

**General Fauna Observations**

Ravens x2



**Quadrat Number:** 11

**Photograph Numbers**

1751-1755

**Easting** 450801

**Northing** 541941

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** North

**Quadrat Description**

Area of grassland above car park on flat area between two outcropping rick ridges. No obvious visitor impacts.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

GS3 Dry-humid acid grassland

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Grassland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** Grazing - sheep  
**Quadrat Grazing** Area grazed by sheep  
**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	15	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	15

Species Latin Name	Species English Name	Species cover (Domin)
<i>Achillea millefolium</i>	Yarrow	2
<i>Anagallis tenella</i>	Bog Pimpernel	2
<i>Carex panicea</i>	Carnation Sedge	2
<i>Cynosurus cristatus</i>	Crested Dog's-tail	5
<i>Festuca</i> sp	Sheep's-fescue	6
<i>Holcus lanatus</i>	Yorkshire-fog	5
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	4
<i>Plantago lanceolata</i>	Ribwort Plantain	2
<i>Potentilla erecta</i>	Tormentil	3
<i>Trifolium repens</i>	White Clover	4

### General Fauna Observations

Red admiral butterfly. Rabbit droppings in quadrat.



**Quadrat Number:** 12

**Photograph Numbers**

1744-1748

**Easting** 450803

**Northing** 542001

**Survey Date** 10/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Mineral Soil

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** South-West

**Quadrat Description**

Area of wetter grassland with sheep droppings and some poaching with sheep prints. No visible visitor impacts.

**Quadrats Comments**

Looks very different with composite not in flower this year.

**Habitat Type (Fossitt (2000))**

GS3 Dry-humid acid grassland

**EU Habitat Type**

NA

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Grasland

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Just below surface

**Comments on Hydrology** Quadrat 5 m from poor fen flush to sw

**Quadrat Landuse** Grazing - sheep

**Quadrat Grazing** Area severly grazed by sheep

**Adjacent Landuse** Grazing - sheep

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	95	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	95	<b>Bare peat / Soil cover</b>	5
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 5 **Height Shrub layer cm** 0

**Height Tree layer cm** 0 **Height Herb layer cm** 5

Species Latin Name	Species English Name	Species cover (Domin)
<i>Agrostis stolonifera</i>	Creeping Bent	3
<i>Anagallis tenella</i>	Bog Pimpernel	4
<i>Cardamine pratensis</i>	Cuckooflower	3
<i>Carex panicea</i>	Carnation Sedge	4
<i>Festuca ovina</i>	Sheep's-fescue	5
<i>Holcus lanatus</i>	Yorkshire-fog	3
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	1
<i>Juncus articulatus</i>	Jointed Rush	1
<i>Plantago coronopus</i>	Buck's-horn Plantain	1
<i>Plantago lanceolata</i>	Ribwort Plantain	3
<i>Poa annua</i>	Annual Meadow-grass	3
<i>Prunella vulgaris</i>	Selfheal	3
Sedge – unidentified	Sedge – unidentified	4
<i>Trifolium repens</i>	White Clover	4
<i>Tripleurospermum maritimum</i>	Sea Mayweed	6

#### General Fauna Observations

Chough x1, Devils coach horse. Snipe x1



**Quadrat Number:** 1  
**Photograph Numbers**  
 1934-1938  
**Easting** 476685  
**Northing** 525508  
**Survey Date** 12/10/201  
**Surveyors**  
 Peter Foss & Brendan Kirwan  
**Substrate Type** Sand  
**Stability** Firm  
**Substrate Depth** na  
**Slope Degrees** 5  
**Aspect** West

**Quadrat Description**

Area of sand shore. No visitor impacts. Robust habitat.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

LS2 Sandshores

**EU Habitat Type**

NA

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Beach

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Blelow surface

**Comments on Hydrology** NA

**Quadrat Landuse** Recreation  
**Quadrat Grazing** No evidence of grazing  
**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	0	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	0	<b>Bare peat / Soil cover</b>	100
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	0	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	0

<b>Species Latin Name</b>	<b>Species English Name</b>	<b>Species cover (Domin)</b>
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No floral observations were made

**General Fauna Observations**

None



**Quadrat Number:** 2

**Photograph Numbers**

1943-1947

**Easting** 476671

**Northing** 525566

**Survey Date** 12/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** <5

**Aspect** South

**Quadrat Description**

Area of fixed dunes 10m from marram dunes and separated by a unpaved path from entrance to beach and lifeguard hut. No grazing. No visitor impact.

**Quadrats Comments**

Uniform growing sward on level area.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Fixed dune area uniform

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	35	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	35



Species Latin Name	Species English Name	Species cover (Domin)
Carex arenaria	Sand Sedge	3
Elytrigia juncea subsp. boreoatlantica	Sand Couch	5
Festuca rubra	Red Fescue	7
Galium saxatile	Heath Bedstraw	4
Plantago lanceolata	Ribwort Plantain	1
Ranunculus bulbosus	Bulbous Buttercup	1
Taraxacum agg.	Dandelion	2
Trifolium pratense	Red Clover	2
Viola sp.	Violet	5

**General Fauna Observations**

None



**Quadrat Number:** 3

**Photograph Numbers**

1948-1952

**Easting** 476691

**Northing** 525553

**Survey Date** 12/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Area of fixed dune used as unpaved footpath towards life guard hut. Vegetation heavily trampled by visitors, and areas of eroded bare sand present. Visitor impact noted. Grazed by rabbit, droppings in quadrats.

**Quadrats Comments**

Dog walker area.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Grassy path

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** Recreation

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	75	<b>Litter cover</b>	<5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	75	<b>Bare peat / Soil cover</b>	25
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

**Height of vegetation cm** 1      **Height Shrub layer cm** 0

**Height Tree layer cm** 0      **Height Herb layer cm** 1

Species Latin Name	Species English Name	Species cover (Domin)
<i>Achillea millefolium</i>	Yarrow	8
<i>Bellis perennis</i>	Daisy	4
<i>Carex arenaria</i>	Sand Sedge	+
<i>Elytrigia juncea</i> subsp. <i>boreoatlantica</i>	Sand Couch	3
<i>Galium saxatile</i>	Heath Bedstraw	2
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	2
<i>Plantago lanceolata</i>	Ribwort Plantain	5
<i>Poa annua</i>	Annual Meadow-grass	4
<i>Senecio jacobaea</i>	Common Ragwort	+
<i>Taraxacum</i> agg.	Dandelion	3
<i>Trifolium repens</i>	White Clover	3

**General Fauna Observations**

Rabbit



**Quadrat Number:** 4

**Photograph Numbers**

1953-1957

**Easting** 476757

**Northing** 525529

**Survey Date** 12/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** Level

**Aspect** NA

**Quadrat Description**

Area of intact marram dunes between path and seashore. Dunes are relatively flat. No visitor impacts. No grazing.

**Quadrats Comments**

None

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Marram dunes

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** None

**Quadrat Grazing** No evidence of grazing

**Adjacent Landuse** None

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	100	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	100

Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	10
<i>Cirsium</i> sp.	Thistle	1
<i>Cochlearia danica</i>	Danish Scurvygrass	3
<i>Festuca rubra</i>	Red Fescue	4
<i>Taraxacum</i> agg.	Dandelion	+

**General Fauna Observations**

None



**Quadrat Number:** 5

**Photograph Numbers**

1961-1966

**Easting** 476807

**Northing** 525553

**Survey Date** 12/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Firm

**Substrate Depth** na

**Slope Degrees** level

**Aspect** North

**Quadrat Description**

Quadrat located on unsurfaced path to beach from pontoon bridge over inlet. Marram dunes occur either side of track which is ca 3m wide. Significant visitor impacts.

**Quadrats Comments**

Path eroded below level of adjacent dunes.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Unpaved path to beach through dunes

**Quadrat Condition**

4 - Poor

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** Recreation

**Quadrat Grazing** Rabbits

**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	10	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	10	<b>Bare peat / Soil cover</b>	90
<b>Bryophyte cover</b>	0	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	10	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	10

Species Latin Name	Species English Name	Species cover (Domin)
<i>Achillea millefolium</i>	Yarrow	3
<i>Ammophila arenaria</i>	Marram	2
<i>Carex arenaria</i>	Sand Sedge	3
<i>Honckenya peploides</i>	Sea Sandwort	+
<i>Taraxacum</i> agg.	Dandelion	2

**General Fauna Observations**

Sandhill snails - *Theba pisana*.



**Quadrat Number:** 6

**Photograph Numbers**

1967-1976

**Easting** 476875

**Northing** 525563

**Survey Date** 12/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** 5

**Aspect** North-West

**Quadrat Description**

Area of marram dunes with open grassy intervening areas. Localised low visitor impact in marram dune.

**Quadrats Comments**

Quadrat located on informal pathway through marram dunes. Located ca 50m south of pontoon.

**Habitat Type (Fossitt (2000))**

CD2 Marram dunes

**EU Habitat Type**

Marram dunes (white dunes) [2120]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

On pathway to beach.

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** None

**Quadrat Grazing** Rabbits

**Adjacent Landuse** Recreation

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	95	<b>Litter cover</b>	5
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	50	<b>Bare peat / Soil cover</b>	10
<b>Bryophyte cover</b>	75	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	2-50	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	60



Species Latin Name	Species English Name	Species cover (Domin)
<i>Ammophila arenaria</i>	Marram	3
<i>Bellis perennis</i>	Daisy	5
<i>Elytrigia juncea</i> subsp. <i>boreoatlantica</i>	Sand Couch	2
<i>Festuca rubra</i>	Red Fescue	5
<i>Galium verum</i>	Lady's Bedstraw	4
<i>Holcus lanatus</i>	Yorkshire-fog	+
<i>Hypochaeris radicata</i>	Cat's-ear	4
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	+
<i>Luzula</i> sp.	Rush	3
<i>Plantago lanceolata</i>	Ribwort Plantain	2
<i>Pleurocarpus</i> moss – unidentified	<i>Pleurocarpus</i> moss – unidentified	3
<i>Ranunculus bulbosus</i>	Bulbous Buttercup	4
<i>Senecio jacobaea</i>	Common Ragwort	2
<i>Tortulla ruraliformis</i>	<b>Golden Dune Moss</b>	8
<i>Trifolium repens</i>	White Clover	5

#### General Fauna Observations

Rabbit droppings, woodlouse, Pointed snail - *Cochlicella acuta*, Sandhill snails - *Theba pisana*



**Quadrat Number:** 7

**Photograph Numbers**

1977-1981

**Easting** 477032

**Northing** 525802

**Survey Date** 12/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Very firm

**Substrate Depth** NA

**Slope Degrees** Flat

**Aspect** East

**Quadrat Description**

Some local compaction by dog walkers on sandy area either side of wooden boardwalk. Main impact likely to be from rabbit grazing. Quadrat located along boardwalk to beach ca 100m from pontoon bridge.

**Quadrats Comments**

Quadrat positioned half on fixed dunes and half on boardwalk. Quadrat located on western side of boardwalk.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Core Movement Area

**Quadrat Type Comment**

Managed path edge

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** Amenity Management

**Quadrat Grazing** Rabbits

**Adjacent Landuse** Grazing - other (Rabbit)

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	15	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	15	<b>Bare peat / Soil cover</b>	85
<b>Bryophyte cover</b>	<5	<b>Open Water cover</b>	0

**Height of vegetation cm** 2                      **Height Shrub layer cm** 0

**Height Tree layer cm** 0                      **Height Herb layer cm** 2

Species Latin Name	Species English Name	Species cover (Domin)
Agrostis sp.	Grass	3
Bellis perennis	Daisy	3
Festuca rubra	Red Fescue	5
Hypochaeris radicata	Cat's-ear	1
Leontodon autumnalis	Hawkbit	1
Lotus corniculatus	Common Bird's-foot-trefoil	4
Plantago lanceolata	Ribwort Plantain	3
Pleurocarpus moss – unidentified	Pleurocarpus moss – unidentified	3
Ranunculus bulbosus	Bulbous Buttercup	+
Senecio jacobaea	Common Ragwort	+
Trifolium repens	White Clover	2

### General Fauna Observations

Rabbit



**Quadrat Number:** 8

**Photograph Numbers**

1982-1991

**Easting** 477038

**Northing** 525809

**Survey Date** 12/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Very firm

**Substrate Depth** na

**Slope Degrees** Flat

**Aspect** West

**Quadrat Description**

Some local compaction by dog walkers, main impact likely to be from rabbit grazing. Quadrat is ca 2.5m west of boardwalk.

**Quadrats Comments**

Quadrat located immediately west of boardwalk on trampled fixed dune heavily grazed by rabbits. Sward compacted and likely heavily grazed by rabbits.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Secondary Movement Area

**Quadrat Type Comment**

Grassy path edge

**Quadrat Condition**

2 - Fair

**Water Table Depth cm** Below surface

**Comments on Hydrology** Well drained

**Quadrat Landuse** None

**Quadrat Grazing** Rabbits

**Adjacent Landuse** Grazing - other (Rabbit)

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	100	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	40	<b>Open Water cover</b>	0

**Height of vegetation cm** 3      **Height Shrub layer cm** 0

**Height Tree layer cm** 0      **Height Herb layer cm** 3

Species Latin Name	Species English Name	Species cover (Domin)
Acrocarpus moss – unidentified	Acrocarpus moss – unidentified	6
Agrostis sp.	Grass	2
Bellis perennis	Daisy	3
Festuca rubra	Red Fescue	7
Galium verum	Lady's Bedstraw	5
Grass – unidentified	Grass – unidentified	3
Hypochaeris radicata	Cat's-ear	3
Lotus corniculatus	Common Bird's-foot-trefoil	4
Luzula sp.	Rush	3
Peltigera canina	Dog Lichen	3
Plantago lanceolata	Ribwort Plantain	5
Ranunculus bulbosus	Bulbous Buttercup	1
Rhytidiadelphus squarrosus	Springy Turf-Moss	4
Thymus polytrichus	Wild Garden Thyme	5
Trifolium repens	White Clover	5

#### General Fauna Observations

Rabbits, Devils coach horse, Pointed snail - *Cochlicella acuta*, Fungus - possibly *Geoglossum cookeanum*, *Helicella itala* - Heath snail.



**Quadrat Number:** 9

**Photograph Numbers**

1992-1996

**Easting** 477037

**Northing** 525825

**Survey Date** 12/10/201

**Surveyors**

Peter Foss & Brendan Kirwan

**Substrate Type** Sand

**Stability** Very firm

**Substrate Depth**

**Slope Degrees** Flat

**Aspect** North

**Quadrat Description**

Quadrat located on intact dune ca 30m west of boardwalk. No obvious visitor impacts recorded. Deep moss layer 10cm deep.

**Quadrats Comments**

Uniform sward covering large area with occasional blow out sand hollows.

**Habitat Type (Fossitt (2000))**

CD3 Fixed dunes

**EU Habitat Type**

Fixed dunes (grey dunes) [2130]

**Quadrat Type**

Off Site-control Area

**Quadrat Type Comment**

Fixed dune grassland over extensive area

**Quadrat Condition**

1 - Good

**Water Table Depth cm** Below surface  
**Comments on Hydrology** No surface water present.

**Quadrat Landuse** None  
**Quadrat Grazing** Rabbits  
**Adjacent Landuse** Grazing - other (Rabbit)

**Structure Quadrat Cover Values %**

<b>Total Vegetation cover</b>	100	<b>Litter cover</b>	0
<b>Tree cover</b>	0	<b>Algae cover</b>	0
<b>Shrub cover</b>	0	<b>Rock cover</b>	0
<b>Herb Grass cover</b>	50	<b>Bare peat / Soil cover</b>	0
<b>Bryophyte cover</b>	95	<b>Open Water cover</b>	0

<b>Height of vegetation cm</b>	25	<b>Height Shrub layer cm</b>	0
<b>Height Tree layer cm</b>	0	<b>Height Herb layer cm</b>	25

Species Latin Name	Species English Name	Species cover (Domin)
Festuca rubra	Red Fescue	7
Galium verum	Lady's Bedstraw	5
Higher plant unidentified (Euphrasia sp.)	na	3
Linum catharticum	Fairy Flax	+
Lotus corniculatus	Common Bird's-foot-trefoil	5
Luzula sp.	Rush	3
Poa annua	Annual Meadow-grass	3
Ranunculus bulbosus	Bulbous Buttercup	5
Rhytiadelphus squarrosus	Springy Turf-Moss	10
Viola sp.	Violet	3

### General Fauna Observations

Rabbit, Chough.