

INSTITUTE OF TERRESTRIAL ECOLOGY
(NATURAL ENVIRONMENT RESEARCH COUNCIL)

NCC/NERC CONTRACT F3/03/80

ITE PROJECT 466

Fourth Interim Report to Nature Conservancy Council

THE BIOLOGICAL SURVEY OF BRITISH RAIL PROPERTY

Appendix 4 Biological Interest Sites - 1979
 London Midland Region

CAROLINE SARGENT & J O MOUNTFORD

Monks Wood Experimental Station
Abbots Ripton
Huntingdon

March 1980

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RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME **Beaconsfield**

Map Ref **SU928910** Data bank ref

NCC Region **South**

County **Buckinghamshire**

Internal ref **R128**

STATUS

Part of	Adjacent to	NNR	PNR	LMR	SSSI	
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - **Random Survey Site.**

INTEREST

<u>Plants</u>	<u>General</u>	Local	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - **Acid woodland scrub, calcifuge turf on cutting. Basic**
)
 Geological) **- calcareous scrub and grassland on embankment**

RAILWAY REGION **LMR**

DIVISION **Watford**

AREA -

Address of Area Civil Engrs Office **C.W. Kendall (D.C.E.)**

Telephone number

**Malton Ho.
65/67 Clarendon Rd.
WATFORD.**

Tel. No. 0923 44311 extn. 7355.

Name of railway line **Paddington -> Birmingham (via Bicester)**

Access at **Minor road bridge under at SU926910**

Mileage post **12 1/4**

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
3rd May 1979	Dr. C.M. Sargent, B. Carleton & J.O. Mountford.	An interesting site which passes from the chalk to the drift of sand & gravel with corresponding changes in topography, soil and flora. A good diverse sp.-list and variety of habitat on the edge of urban area. Of some value in local context, but not outstanding and is a varied area. * Recommend that the site be noted and the contribution of the long series of large cuttings and embankments in the commuter belt from Gerrards Cross to High Wycombe be assessed.

Continue overleaf

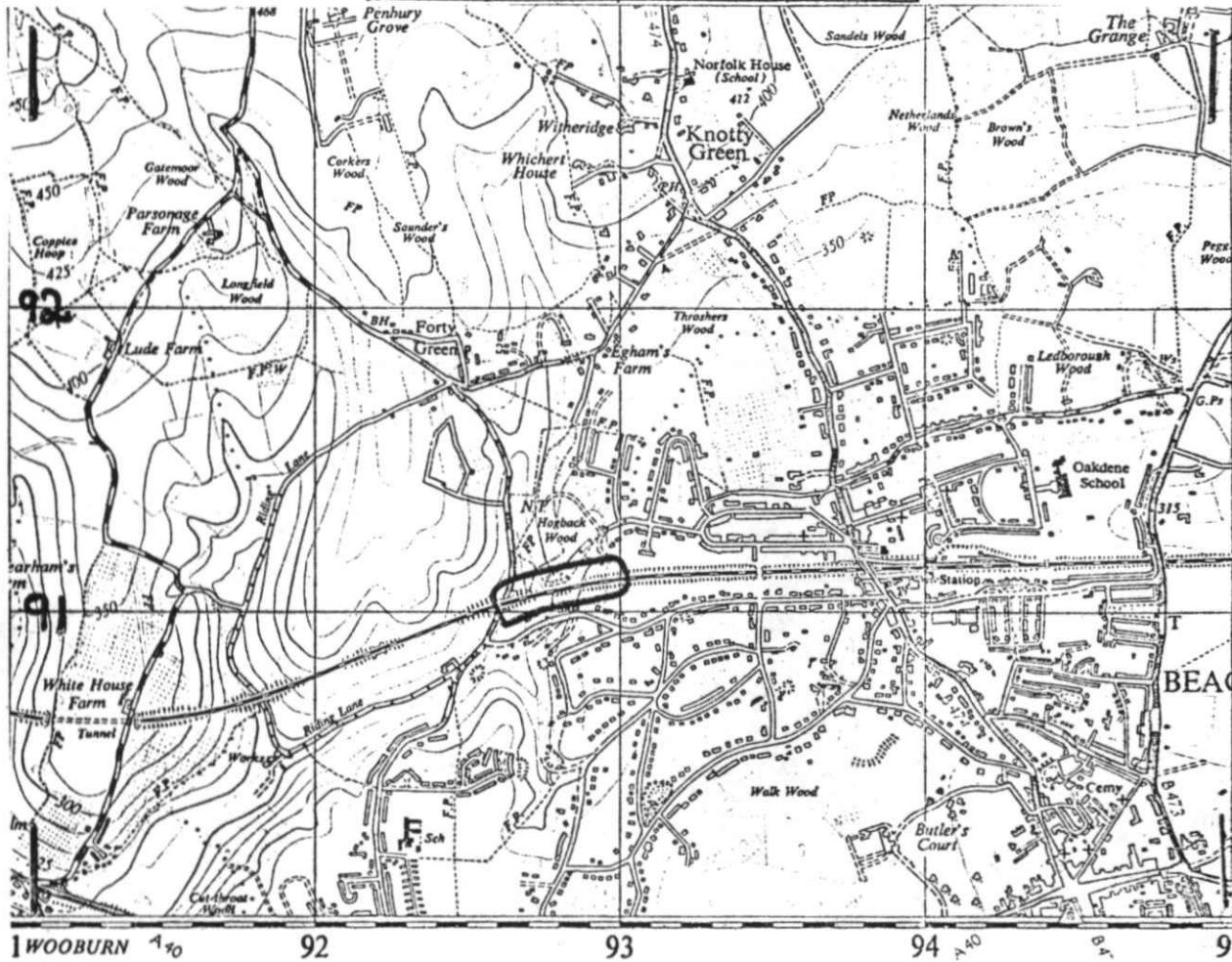
FILE OPENED BY **ITE. Monks Wood**

DATE **17th Dec. 1979**

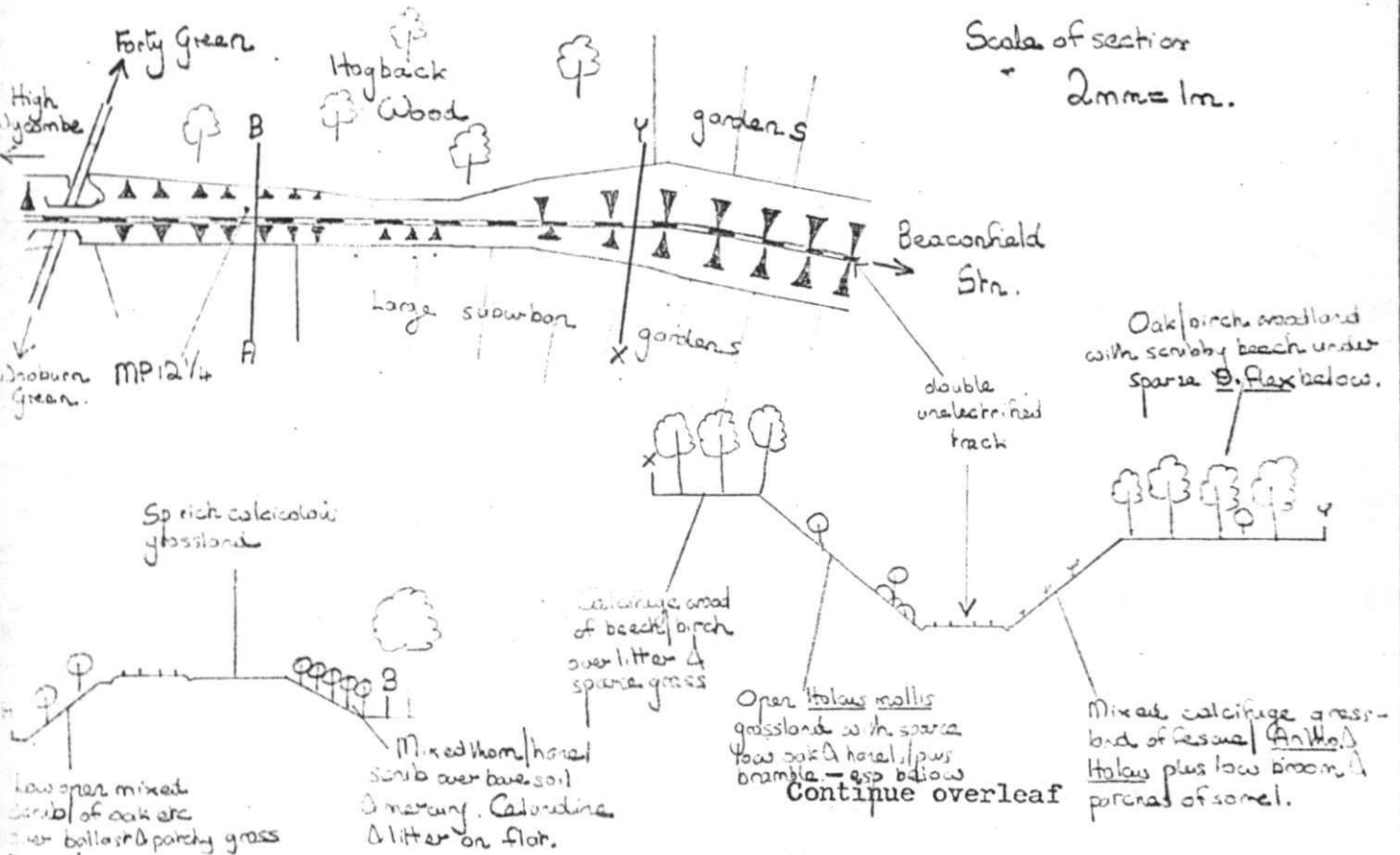
LOCATION STATUS

Accurate

Approximate



SKETCH MAP



SITE NAME Beaconsfield

CDB ref

(Section 3)
Internal ref R128Altitude 230' → 330'Local Geology Cretaceous: Upper Chalk. Overlaid by Glacial Sand & Gravel in cutting.Neighbouring landuses Private garden, broadleaved and mixed woodland.

DIRECTION FROM ACCESS

N (E) W S E W or BOTH

Dist from * access point	0 →	0 →	0 →	250 →	175 →	250 →	200 →
	175m	200m	175m	400m	400m	400m	400m
Side of track °	S.	N.	N.	S.	S.	N.	N.
Landform x	Emb.	Flat.	Emb.	Cut.	Flat	Cut.	Flat
Aspect-degrees	180°	—	0°	0°	—	180°	—
Width-metres	c. 7m.	c. 7m.	6m.	→ 15m.	7m.	→ 10m.	c. 14m.
Disturbance +	Ma Ball	Clear	—	Clear	—	Clear	—

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST 112 spp. and wide variety of semi-natural vegetation, in suburban area of large gardens. Some local spp: Onobrychis and Sedum telephium etc..

General vegn characteristics and habitat description indicate side of track

The embankment lies just E. of the AP and is rather small. The S. side has negligible flats above and below, and is locally heavily ballasted. There is sparse low mixed scrub of oak, elder and sycamore plus bramble with patches of rough grass and lettuce [column 1]. There is a broad flat by the line on the N. side with a coarse sp-rich grassland of Bromus arvensis & Arrhenatherum with large patches of Stellaria holostea. Several calcicoles are present [column 2]. There is then a low embankment slope of blackthorn scrub with hawthorn and hazel plus shelter of beech branches from trees rooted in NL. Bare soil and masonry occur below with litter. The flat below is in the shade of both scrub & wood but has neither rooted within it and there is a large area of Ranunculus ficaria among beech litter [column 3]. The embankment gradually flattens and the calcicoles disappear and on entering the large cutting the soil becomes coarse and sandy. The S. slope is covered mainly in rather open Holcus mollis grassland with abundant tree leaf litter. The grassland is herb- and sp-poor. Near the line there are bramble thickets with low emergent oak and hazel and above there are very occasional low bushes [column 4]. Rooted on the break in the slope are a line of birch trees with occasional oak and beech. Some trees are also rooted on flat behind. The mixed calcifuge woodland has a ground layer of tree leaf litter with patches of bramble, bluebell and Holcus mollis. [column 5]. The N. slope has open low broom scrub (c. 1m. high) with calcifuge fescue grassland or a mixture of Holcus mollis, Anthoxanthum & Arrhenatherum with patches of Rumex acetosella & moss on bayer soil [column 6]. The flat above has open oak woodland, with birch and rather scrubby back near the fence. There are areas of moss & Deschampsia flexuosa by the slope to the line. The tracks were laid out where the cutting rises from the flat to the W. [column 7].

PREFERRED MANAGEMENT

Removal of scrub and grazing of grassland on calcareous flat. Occasional thinning of scrub elsewhere.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

The cutting slopes and the flat by the embankment all have bushes with lopped branches but this was done some time ago.

40m 3.5.79

SITE NAME **Beaconsfield**

CDB ref

Internal ref **R128**

BRYOPHYTES

DATE **3.5.79**

RECORDER **CMSargent.**

Additional Species
NAME
CODE

001	Acu muti	0874	viri	185	rufe	269	osmu	363	myur	460	Pleu acum	681	Adel	deci	790	Leio	883	lay
002	Acro cord	0897	arge	186	schr	272	rufu	364	stri	461	subu	682	Anas	urea	791	bant	884	pinn
003	giga	0892	lana	187	subu	273	viri	365	Lept rupa	462	Pleu aqua	683	Anas	doni	794	man	885	plat
004	sarm	090	bico	188	viri	275	viri	366	Lept sinit	463	Pleu schr	686	Anth	jula	796	turb	886	thuj
005	006	007	008	189	Font	276	anti	367	Lept sinit	464	Pleu acum	689	Anth	huan	797	Leje	887	quad
006	009	010	011	190	Dier	276	ansi	368	Lept flex	465	Pleu acum	690	Apha	lucv	801	azor	888	cill
007	012	013	014	191	ansi	276	ansi	368	Lept flex	465	Pleu acum	691	Apha	punc	801	azor	888	cill
008	015	016	017	192	ansi	281	ansi	373	Leuc glau	466	annot	692	Barb	uicr	803	pate	889	puc
009	020	021	022	193	Dier	282	ansi	374	Leuc glau	468	crud	693	Barb	uicr	803	pate	889	puc
010	025	026	027	194	Dier	283	ansi	375	Leuc glau	470	dell	694	Barb	uicr	804	pate	892	comp
011	030	031	032	195	Dier	283	ansi	375	Leuc glau	471	dell	695	Barb	uicr	805	pate	894	lind
012	035	036	037	196	Dier	284	ansi	379	Mniu	472	clon	696	Barb	uicr	806	pate	896	homi
013	040	041	042	197	Dier	285	ansi	380	Mniu	474	ludw	697	Barb	uicr	807	rept	897	locu
014	045	046	047	198	Dier	285	ansi	381	Mniu	475	nuta	698	Bazz	uicr	808	rept	899	locu
015	050	051	052	199	Dier	286	ansi	382	Mniu	476	polu	699	Bazz	uicr	809	rept	900	locu
016	055	056	057	200	Dier	286	ansi	383	Mniu	477	polu	700	Bazz	uicr	810	rept	901	locu
017	060	061	062	201	Dier	289	ansi	385	Mniu	479	polu	701	Bazz	uicr	811	rept	902	locu
018	065	066	067	202	Dier	291	ansi	387	Mniu	480	alpe	702	Bazz	uicr	812	rept	903	locu
019	070	071	072	203	Dier	291	ansi	388	Mniu	482	alpe	703	Biaz	uicr	813	rept	904	locu
020	075	076	077	204	Dier	292	ansi	389	Mniu	484	alpe	704	Biaz	uicr	814	rept	905	locu
021	080	081	082	205	Dier	292	ansi	391	Mniu	484	alpe	705	Biaz	uicr	815	rept	906	locu
022	085	086	087	206	Dier	292	ansi	392	Mniu	485	alpe	706	Biaz	uicr	816	rept	907	locu
023	090	091	092	207	Dier	292	ansi	393	Mniu	486	alpe	707	Biaz	uicr	817	rept	908	locu
024	095	096	097	208	Dier	292	ansi	394	Mniu	488	alpe	708	Biaz	uicr	818	rept	909	locu
025	100	101	102	209	Dier	292	ansi	395	Mniu	489	alpe	709	Biaz	uicr	819	rept	910	locu
026	105	106	107	210	Dier	292	ansi	396	Mniu	491	alpe	710	Biaz	uicr	820	rept	911	locu
027	110	111	112	211	Dier	292	ansi	397	Mniu	491	alpe	711	Biaz	uicr	821	rept	912	locu
028	115	116	117	212	Dier	292	ansi	401	Neck	491	alpe	712	Biaz	uicr	822	rept	913	locu
029	120	121	122	213	Dier	292	ansi	402	Neck	494	alpe	713	Biaz	uicr	823	rept	914	locu
030	125	126	127	214	Dier	292	ansi	403	Neck	495	alpe	714	Biaz	uicr	824	rept	915	locu
031	130	131	132	215	Dier	292	ansi	404	Neck	496	alpe	715	Biaz	uicr	825	rept	916	locu
032	135	136	137	216	Dier	292	ansi	405	Neck	497	alpe	716	Biaz	uicr	826	rept	917	locu
033	140	141	142	217	Dier	292	ansi	406	Neck	498	alpe	717	Biaz	uicr	827	rept	918	locu
034	145	146	147	218	Dier	292	ansi	407	Neck	499	alpe	718	Biaz	uicr	828	rept	919	locu
035	150	151	152	219	Dier	292	ansi	408	Neck	500	alpe	719	Biaz	uicr	829	rept	920	locu
036	155	156	157	220	Dier	292	ansi	409	Neck	501	alpe	720	Biaz	uicr	830	rept	921	locu
037	160	161	162	221	Dier	292	ansi	410	Neck	502	alpe	721	Biaz	uicr	831	rept	922	locu
038	165	166	167	222	Dier	292	ansi	411	Neck	503	alpe	722	Biaz	uicr	832	rept	923	locu
039	170	171	172	223	Dier	292	ansi	412	Neck	504	alpe	723	Biaz	uicr	833	rept	924	locu
040	175	176	177	224	Dier	292	ansi	413	Neck	505	alpe	724	Biaz	uicr	834	rept	925	locu
041	180	181	182	225	Dier	292	ansi	414	Neck	506	alpe	725	Biaz	uicr	835	rept	926	locu
042	185	186	187	226	Dier	292	ansi	415	Neck	507	alpe	726	Biaz	uicr	836	rept	927	locu
043	190	191	192	227	Dier	292	ansi	416	Neck	508	alpe	727	Biaz	uicr	837	rept	928	locu
044	195	196	197	228	Dier	292	ansi	417	Neck	509	alpe	728	Biaz	uicr	838	rept	929	locu
045	200	201	202	229	Dier	292	ansi	418	Neck	510	alpe	729	Biaz	uicr	839	rept	930	locu
046	205	206	207	230	Dier	292	ansi	419	Neck	511	alpe	730	Biaz	uicr	840	rept	931	locu
047	210	211	212	231	Dier	292	ansi	420	Neck	512	alpe	731	Biaz	uicr	841	rept	932	locu
048	215	216	217	232	Dier	292	ansi	421	Neck	513	alpe	732	Biaz	uicr	842	rept	933	locu
049	220	221	222	233	Dier	292	ansi	422	Neck	514	alpe	733	Biaz	uicr	843	rept	934	locu
050	225	226	227	234	Dier	292	ansi	423	Neck	515	alpe	734	Biaz	uicr	844	rept	935	locu
051	230	231	232	235	Dier	292	ansi	424	Neck	516	alpe	735	Biaz	uicr	845	rept	936	locu
052	235	236	237	236	Dier	292	ansi	425	Neck	517	alpe	736	Biaz	uicr	846	rept	937	locu
053	240	241	242	237	Dier	292	ansi	426	Neck	518	alpe	737	Biaz	uicr	847	rept	938	locu
054	245	246	247	238	Dier	292	ansi	427	Neck	519	alpe	738	Biaz	uicr	848	rept	939	locu
055	250	251	252	239	Dier	292	ansi	428	Neck	520	alpe	739	Biaz	uicr	849	rept	940	locu
056	255	256	257	240	Dier	292	ansi	429	Neck	521	alpe	740	Biaz	uicr	850	rept	941	locu
057	260	261	262	241	Dier	292	ansi	430	Neck	522	alpe	741	Biaz	uicr	851	rept	942	locu
058	265	266	267	242	Dier	292	ansi	431	Neck	523	alpe	742	Biaz	uicr	852	rept	943	locu
059	270	271	272	243	Dier	292	ansi	432	Neck	524	alpe	743	Biaz	uicr	853	rept	944	locu
060	275	276	277	244	Dier	292	ansi	433	Neck	525	alpe	744	Biaz	uicr	854	rept	945	locu
061	280	281	282	245	Dier	292	ansi	434	Neck	526	alpe	745	Biaz	uicr	855	rept	946	locu
062	285	286	287	246	Dier	292	ansi	435	Neck	527	alpe	746	Biaz	uicr	856	rept	947	locu
063	290	291	292	247	Dier	292	ansi	436	Neck	528	alpe	747	Biaz	uicr	857	rept	948	locu
064	295	296	297	248	Dier	292	ansi	437	Neck	529	alpe	748	Biaz	uicr	858	rept	949	locu
065	300	301	302	249	Dier	292	ansi	438	Neck	530	alpe	749	Biaz	uicr	859	rept	950	locu
066	305	306	307	250	Dier	292	ansi	439	Neck	531	alpe	750	Biaz	uicr	860	rept	951	locu
067	310	311	312	251	Dier	292	ansi	440	Neck	532	alpe	751	Biaz	uicr	861	rept	952	locu
068	315	316	317	252	Dier	292	ansi	441	Neck	533	alpe	752	Biaz	uicr	862	rept	953	locu
069	320	321	322	253	Dier	292	ansi	442	Neck	534	alpe	753	Biaz	uicr	863	rept	954	locu
070	325	326	327	254	Dier	292	ansi	443	Neck	535	alpe	754	Biaz	uicr	864	rept	955	locu
071	330	331	332	255	Dier	292	ansi	444	Neck	536	alpe	755	Biaz	uicr	865	rept	956	locu
072	335	336	337	256	Dier	292	ansi	445	Neck	537	alpe	756	Biaz	uicr	866	rept	957	locu
073	340	341	342	257	Dier	292	ansi	446	Neck	538	alpe	757	Biaz	uicr	867	rept	958	locu
074	345	346	347	258	Dier	292	ansi	447	Neck	539	alpe	758	Biaz	uicr	868	rept	959	locu
075	350	351	352	259	Dier	292	ansi	448	Neck	540	alpe	759	Biaz	uicr	869	rept	960	locu
076	355	356	357	260	Dier	292	ansi	449	Neck	541	alpe	760	Biaz	uicr	870	rept	961	locu
077	360	361	362	261	Dier	292	ansi	450	Neck	542	alpe	761	Biaz	uicr	871	rept	962	locu
078	365	366	367	262	Dier	292	ansi	451	Neck	543	alpe	762	Biaz	uicr	872	rept	963	locu
079	370	371	372	263	Dier	292	ansi	452	Neck	544	alpe	763	Biaz	uicr	873	rept	964	locu
080	375	376	377	264	Dier	292	ansi	453	Neck	545	alpe	764	Biaz	uicr	874	rept	965	locu
081	380	381	382	265	Dier	292	ansi	454	Neck	546	alpe	765	Biaz	uicr	875	rept	966	locu
082	385	386	387	266	Dier	292	ansi											

REG. LMA DIV. AREA SITE
 B. 128

SITE NAME: Beaconsfield
 RECORDER: B. Colston
 LANDFORM: 1 2 3 4 5 6 7 8 9 10
 DATE: 3.5.79

COUNTY: Buckinghamshire
 WEATHER: Bright, mainly sunny but with much cloud early on and occasional drizzle turning to sleet about 1 p.m. Cool and with slight breeze.
 TIME: 1130 → 1630

HABITAT APPRAISAL

A	B	%	MGT.	DESCRIPTION	ROW	ANIMAL	fn	fc	r
0	0	30	700	low embankment with a flat of calcareous grassland and scrubby slopes. Cutting to E. of acid grassland with sparse broom & bramble plus deciduous woodland on flats above. Better variety of native spp than NL, which however is diverse with large cuttings, gardens and beach woodland. Rich in habitats but not outstanding in local context. Performs a side function.	1	Bird (small)	3	3	3
0	5	30	726		2	Bird (large)	2	1	2
1	1	10	726		3	Mamm. (small)	3	3	2
1	3	15	726		4	Mamm. (large)	2	2	1
1	6	15	726		5	Other Vert.	.	2	2
					6	Lepidoptera	2	.	2
					7	Other Insect	3	3	3
					8	Other Invert.	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS		CODE	ORD.	OTHER VERTS.	CODE	ORD.	INVERTS.	
Bay Tit	3750	1	Common Lizard		1	Small White	Oak Apple Gall Bombus sp. Various: Oligochaeta Hymenoptera (inc. Males) out Colleoptera larvae Diptera	
Blue Tit	3790	2						
Magpie	3720	2						
Blackbird	4240	2						
Blue Tit	3800	2						
Kestrel	1480	1						
Robin	4000	1						
Wren	3980	1						
cont. over			cont. over					
Starling	5180	2						
Corvid Crow	3681	1						
Woodpigeon	2990	1						
cont. over			cont. over				cont. over	
							ASSOC. BR	
cont. over			cont. over				cont. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME **Rushbeds Wood**

Map Ref **SP670158** Data bank ref

NCC Region **South**

County **Buckinghamshire** Internal ref **B111**

STATUS

Part of	Adjacent to	NNR	PNR	LNR	SSSI
---------	--------------------	-----	-----	-----	-------------

County Flora site. State ref -

Local Information site. State source - **Buckinghamshire County Museum**

Discovery etc. (Describe) -

INTEREST

Plants	General	Local	Rare	Very rare
Animals	Insects	Reptiles	Birds	Mammals

Habitat) describe - **Mixed deciduous scrub & woodland. Bariclow turf adjacent. Extensive slopes of Brometum vesetia, also Calamagrostis epigissa. Old track, demolished bridge culvert and ponds**

Geological)

RAILWAY REGION **LMR** DIVISION **WATFORD** AREA —

Address of Area Civil Engrs Office **C.W. Kendall (D.C.E.)**
Telephone number **Malton Ho.**
65/67 Cleverdon Rd.
Watford.

Name of railway line **Tel. No. 0923 44311 extn. 7355**
Paddington -> Birmingham (via. Bicester)

Access at **Minor road bridge over at SP673153** Mileage post **2 -> 2 1/2**

NOTIFICATION

	With whom	By whom	Date	Ref.
Site notified to BR				
Management agreement (see section 3 for detail)				

VISITS

Date	By whom	Assessment/Action
7th May 1979	Dr. C.M. Sargent, B. Carleton and J.O. Mountford.	Very varied area adjacent to a SSSI woodland with long sp-turf and a good population of nationally rare alien: <u>Trigonolobus maritimus</u>. Contributes grassland habitat and areas of rich scrub & woodland and almost certainly increases value of the site. * Recommend careful monitoring of site and discussion of management especially in grassland areas with B.R., Consider extending schedule to include B.R. land. Should examine whole cutting from <u>Dorset to Piddington.</u>

FILE OPENED BY **ITE Monks Wood**

DATE **19th Dec 1979**

SITE NAME Pushbeds Wood

CDB ref

(Section 3)
Internal ref B111Altitude 280' → 315'Local Geology Upper Jurassic: north end is Oxford Clay and south is calc. grit (prob. Kelloways Beds)Neighbouring landuses Broadleaved woodland and arable agriculture.

DIRECTION FROM ACCESS

<input checked="" type="radio"/> N	<input type="radio"/> E	<input type="radio"/> W	<input type="radio"/> S	<input type="radio"/> E	<input type="radio"/> W	or	<input type="radio"/> BOTH
------------------------------------	-------------------------	-------------------------	-------------------------	-------------------------	-------------------------	----	----------------------------

Dist from * access point	0 → 500m	300 → 500m	0 → 800m	100m	500 → 550m	600 → 650m	650 → 800m	650 → 800m
Side of track °	both	both	E.	W.	both	both	E	W
Landform x	Cut/Flat	Cut.	Old line	Ponds	Flat	Flat	Cut.	Cut.
Aspect-degrees	70°/250°	70°/250°	—	—	—	—	250°	70°
Width-metres	→30m	c.15m.	4m.	4m.	15m.	15m.	25m.	25m.
Disturbance †	—	—	S.Ball	—	—	—	—	—

- * If site is both sides of access point, precede distance by cardinal point
 ° Indicate side of track by compass cardinal point
 x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
 † Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Good population of *Tetragonolobus maritimus*. Large areas of *Brometum erectae* and smaller areas of sp-rich mixed calcicolous grassland. Scrub & marginal vegetation by woodland.

General vegn characteristics and habitat description indicate side of track

An old track bed runs all along E. side. Recently ballast-tipped and now in process of colonisation by annuals and low grasses to form patchy turf [column 3]. The majority of the cutting slopes S of the tunnel and the adjacent flats have a rich mixed deciduous scrub of hawthorn, oak and hawthorn with areas of bramble. *Anemone*, orchids, *Brachypodium syl.* and general shade spp. esp. primrose are common among the litter below [column 3]. Locally on the E. side old especially around the semi-circle of the slope above Δ by the tunnel mouth is good herb-Δ sp-rich mixed calcicolous grassland of *Brachypodium sylvaticum*, *Carex flacca* & *fusca* | *Poa* with much *Carlina* and colonising bramble Δ privet [column 2]. A culverted stream goes under the line 100m. N. of the AP and on the W. side adjacent are stone-walled ponds with some aquatic spp and plants of shaded wet areas e.g. *Chrysosplenium* [column 4]. The flat above the S. tunnel mouth has coarse *Colona-gostis lepigae* grassland with some low sallow colonising [column 5]. The flat above the N. mouth (separated from latter by woodland ride Δ *Ulex* *fences*) has open sallow scrub with coarse damp-ground herbs but *Amaranthum* [column 6]. The cutting N from the tunnel has coarse generally rather herb-poor *Brometum erectae* on the E. side with scattered areas of gorse thicket. This very large slope has several patches of *Tetragonolobus* also [column 7]. Finally the W. slope has birch scrub with grassy areas generally rather similar but poorer in spp. and more heterogeneous than that covering S. cutting. [column 8]. The tunnel walls and demolished bridges have ferns etc..

PREFERRED MANAGEMENT

Some grazing and cutting of *Brometum* plus selective thinning of scrub to diversify habitat and encourage/remove grassy areas.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None.

form 7.5.79.

SIDE OF TRACK

N	E	W	S	E	W
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DATE 7.5.79

RECORDER CMSargent / Jomountford

Additional Species	CODE	NAME
	142	<i>Arabisopsis hael</i>
	404	<i>Carex pedunculata</i>
	753	<i>Erophila verna</i>
	836	<i>Fragaria X onan</i>
	1633	<i>Rhus communis</i>
	1786	<i>Salix cin. ole</i>
	1828	<i>Hieracium sp.</i>
	2042	<i>Tetragonalobus m.</i>
	2186	<i>Vicia sativa nigra</i>

GRAASSES	Additional Species	CODE	NAME	Plant Part	Plant Type	Plant Use	Plant Habitat	Plant Distribution	Plant Notes
33 Agrop	841 Fraxi		<i>Fraxinus</i>	l	dec	tree	W	118	
35 Agres	842 Hedr		<i>Hedera</i>	l	dec	climber	W	118	
40 Aira	843 Humil		<i>Humulus</i>	l	dec	climber	W	118	
42 Alope	844 Ilex		<i>Ilex</i>	l	dec	shrub	W	118	
44 Alope	845 Junip		<i>Juniperus</i>	l	dec	shrub	W	118	
48 Anthe	846 Ligus		<i>Ligustrum</i>	l	dec	shrub	W	118	
50 Anthe	847 Lonic		<i>Lonicera</i>	l	dec	shrub	W	118	
52 Anthe	848 Nalus		<i>Nalus</i>	l	dec	shrub	W	118	
54 Anthe	849 Penus		<i>Penus</i>	l	dec	shrub	W	118	
56 Anthe	850 Popul		<i>Populus</i>	l	dec	tree	W	118	
58 Anthe	851 Pranu		<i>Pranu</i>	l	dec	tree	W	118	
60 Anthe	852 Arum		<i>Arum</i>	l	dec	herb	W	118	
62 Anthe	853 Asplo		<i>Asplo</i>	l	dec	herb	W	118	
64 Anthe	854 Conop		<i>Conop</i>	l	dec	herb	W	118	
66 Anthe	855 Conop		<i>Conop</i>	l	dec	herb	W	118	
68 Anthe	856 Conop		<i>Conop</i>	l	dec	herb	W	118	
70 Anthe	857 Conop		<i>Conop</i>	l	dec	herb	W	118	
72 Anthe	858 Conop		<i>Conop</i>	l	dec	herb	W	118	
74 Anthe	859 Conop		<i>Conop</i>	l	dec	herb	W	118	
76 Anthe	860 Conop		<i>Conop</i>	l	dec	herb	W	118	
78 Anthe	861 Conop		<i>Conop</i>	l	dec	herb	W	118	
80 Anthe	862 Conop		<i>Conop</i>	l	dec	herb	W	118	
82 Anthe	863 Conop		<i>Conop</i>	l	dec	herb	W	118	
84 Anthe	864 Conop		<i>Conop</i>	l	dec	herb	W	118	
86 Anthe	865 Conop		<i>Conop</i>	l	dec	herb	W	118	
88 Anthe	866 Conop		<i>Conop</i>	l	dec	herb	W	118	
90 Anthe	867 Conop		<i>Conop</i>	l	dec	herb	W	118	
92 Anthe	868 Conop		<i>Conop</i>	l	dec	herb	W	118	
94 Anthe	869 Conop		<i>Conop</i>	l	dec	herb	W	118	
96 Anthe	870 Conop		<i>Conop</i>	l	dec	herb	W	118	
98 Anthe	871 Conop		<i>Conop</i>	l	dec	herb	W	118	
100 Anthe	872 Conop		<i>Conop</i>	l	dec	herb	W	118	
102 Anthe	873 Conop		<i>Conop</i>	l	dec	herb	W	118	
104 Anthe	874 Conop		<i>Conop</i>	l	dec	herb	W	118	
106 Anthe	875 Conop		<i>Conop</i>	l	dec	herb	W	118	
108 Anthe	876 Conop		<i>Conop</i>	l	dec	herb	W	118	
110 Anthe	877 Conop		<i>Conop</i>	l	dec	herb	W	118	
112 Anthe	878 Conop		<i>Conop</i>	l	dec	herb	W	118	
114 Anthe	879 Conop		<i>Conop</i>	l	dec	herb	W	118	
116 Anthe	880 Conop		<i>Conop</i>	l	dec	herb	W	118	
118 Anthe	881 Conop		<i>Conop</i>	l	dec	herb	W	118	
120 Anthe	882 Conop		<i>Conop</i>	l	dec	herb	W	118	
122 Anthe	883 Conop		<i>Conop</i>	l	dec	herb	W	118	
124 Anthe	884 Conop		<i>Conop</i>	l	dec	herb	W	118	
126 Anthe	885 Conop		<i>Conop</i>	l	dec	herb	W	118	
128 Anthe	886 Conop		<i>Conop</i>	l	dec	herb	W	118	
130 Anthe	887 Conop		<i>Conop</i>	l	dec	herb	W	118	
132 Anthe	888 Conop		<i>Conop</i>	l	dec	herb	W	118	
134 Anthe	889 Conop		<i>Conop</i>	l	dec	herb	W	118	
136 Anthe	890 Conop		<i>Conop</i>	l	dec	herb	W	118	
138 Anthe	891 Conop		<i>Conop</i>	l	dec	herb	W	118	
140 Anthe	892 Conop		<i>Conop</i>	l	dec	herb	W	118	
142 Anthe	893 Conop		<i>Conop</i>	l	dec	herb	W	118	
144 Anthe	894 Conop		<i>Conop</i>	l	dec	herb	W	118	
146 Anthe	895 Conop		<i>Conop</i>	l	dec	herb	W	118	
148 Anthe	896 Conop		<i>Conop</i>	l	dec	herb	W	118	
150 Anthe	897 Conop		<i>Conop</i>	l	dec	herb	W	118	
152 Anthe	898 Conop		<i>Conop</i>	l	dec	herb	W	118	
154 Anthe	899 Conop		<i>Conop</i>	l	dec	herb	W	118	
156 Anthe	900 Conop		<i>Conop</i>	l	dec	herb	W	118	
158 Anthe	901 Conop		<i>Conop</i>	l	dec	herb	W	118	
160 Anthe	902 Conop		<i>Conop</i>	l	dec	herb	W	118	
162 Anthe	903 Conop		<i>Conop</i>	l	dec	herb	W	118	
164 Anthe	904 Conop		<i>Conop</i>	l	dec	herb	W	118	
166 Anthe	905 Conop		<i>Conop</i>	l	dec	herb	W	118	
168 Anthe	906 Conop		<i>Conop</i>	l	dec	herb	W	118	
170 Anthe	907 Conop		<i>Conop</i>	l	dec	herb	W	118	
172 Anthe	908 Conop		<i>Conop</i>	l	dec	herb	W	118	
174 Anthe	909 Conop		<i>Conop</i>	l	dec	herb	W	118	
176 Anthe	910 Conop		<i>Conop</i>	l	dec	herb	W	118	
178 Anthe	911 Conop		<i>Conop</i>	l	dec	herb	W	118	
180 Anthe	912 Conop		<i>Conop</i>	l	dec	herb	W	118	
182 Anthe	913 Conop		<i>Conop</i>	l	dec	herb	W	118	
184 Anthe	914 Conop		<i>Conop</i>	l	dec	herb	W	118	
186 Anthe	915 Conop		<i>Conop</i>	l	dec	herb	W	118	
188 Anthe	916 Conop		<i>Conop</i>	l	dec	herb	W	118	
190 Anthe	917 Conop		<i>Conop</i>	l	dec	herb	W	118	
192 Anthe	918 Conop		<i>Conop</i>	l	dec	herb	W	118	
194 Anthe	919 Conop		<i>Conop</i>	l	dec	herb	W	118	
196 Anthe	920 Conop		<i>Conop</i>	l	dec	herb	W	118	
198 Anthe	921 Conop		<i>Conop</i>	l	dec	herb	W	118	
200 Anthe	922 Conop		<i>Conop</i>	l	dec	herb	W	118	
202 Anthe	923 Conop		<i>Conop</i>	l	dec	herb	W	118	
204 Anthe	924 Conop		<i>Conop</i>	l	dec	herb	W	118	
206 Anthe	925 Conop		<i>Conop</i>	l	dec	herb	W	118	
208 Anthe	926 Conop		<i>Conop</i>	l	dec	herb	W	118	
210 Anthe	927 Conop		<i>Conop</i>	l	dec	herb	W	118	
212 Anthe	928 Conop		<i>Conop</i>	l	dec	herb	W	118	
214 Anthe	929 Conop		<i>Conop</i>	l	dec	herb	W	118	
216 Anthe	930 Conop		<i>Conop</i>	l	dec	herb	W	118	
218 Anthe	931 Conop		<i>Conop</i>	l	dec	herb	W	118	
220 Anthe	932 Conop		<i>Conop</i>	l	dec	herb	W	118	
222 Anthe	933 Conop		<i>Conop</i>	l	dec	herb	W	118	
224 Anthe	934 Conop		<i>Conop</i>	l	dec	herb	W	118	
226 Anthe	935 Conop		<i>Conop</i>	l	dec	herb	W	118	
228 Anthe	936 Conop		<i>Conop</i>	l	dec	herb	W	118	
230 Anthe	937 Conop		<i>Conop</i>	l	dec	herb	W	118	
232 Anthe	938 Conop		<i>Conop</i>	l	dec	herb	W	118	
234 Anthe	939 Conop		<i>Conop</i>	l	dec	herb	W	118	
236 Anthe	940 Conop		<i>Conop</i>	l	dec	herb	W	118	
238 Anthe	941 Conop		<i>Conop</i>	l	dec	herb	W	118	
240 Anthe	942 Conop		<i>Conop</i>	l	dec	herb	W	118	
242 Anthe	943 Conop		<i>Conop</i>	l	dec	herb	W	118	
244 Anthe	944 Conop		<i>Conop</i>	l	dec	herb	W	118	
246 Anthe	945 Conop		<i>Conop</i>	l	dec	herb	W	118	
248 Anthe	946 Conop		<i>Conop</i>	l	dec	herb	W	118	
250 Anthe	947 Conop		<i>Conop</i>	l	dec	herb	W	118	
252 Anthe	948 Conop		<i>Conop</i>	l	dec	herb	W	118	
254 Anthe	949 Conop		<i>Conop</i>	l	dec	herb	W	118	
256 Anthe	950 Conop		<i>Conop</i>	l	dec	herb	W	118	
258 Anthe	951 Conop		<i>Conop</i>	l	dec	herb	W	118	
260 Anthe	952 Conop		<i>Conop</i>	l	dec	herb	W	118	
262 Anthe	953 Conop		<i>Conop</i>	l	dec	herb	W	118	
264 Anthe	954 Conop		<i>Conop</i>	l	dec	herb	W	118	
266 Anthe	955 Conop		<i>Conop</i>	l	dec	herb	W	118	
268 Anthe	956 Conop		<i>Conop</i>	l	dec	herb	W	118	
270 Anthe	957 Conop		<i>Conop</i>	l	dec	herb	W	118	
272 Anthe	958 Conop		<i>Conop</i>	l	dec	herb	W	118	
274 Anthe	959 Conop		<i>Conop</i>	l	dec	herb	W	118	
276 Anthe	960 Conop		<i>Conop</i>	l	dec	herb	W	118	
278 Anthe	961 Conop		<i>Conop</i>	l	dec	herb	W	118	
280 Anthe	962 Conop		<i>Conop</i>	l	dec	herb	W	118	
282 Anthe	963 Conop		<i>Conop</i>	l	dec	herb	W	118	
284 Anthe	964 Conop		<i>Conop</i>	l	dec	herb	W	118	
286 Anthe	965 Conop		<i>Conop</i>	l	dec	herb	W	118	
288 Anthe	966 Conop		<i>Conop</i>	l	dec	herb	W	118	
290 Anthe	967 Conop		<i>Conop</i>	l	dec	herb	W	118	
292 Anthe	968 Conop		<i>Conop</i>	l	dec	herb	W	118	
294 Anthe	969 Conop		<i>Conop</i>	l	dec	herb	W	118	
296 Anthe	970 Conop		<i>Conop</i>	l					

Additional Species
NAME
CODE

001	Acro cord	0874	viri	185	rufe	269	osmu	363	myur	460	Pleu acum	546	pauc	681	Adel	790	Leio	883	laev
002	Acro cord	0891	arge	186	schr	272	rufu	364	stri	461	subu	547	pust	682	Anas	791	bant	884	plinn
003	giga	0892	lana	187	squa	273	taxi	365	piri	462	Pleu squa	548	recu	683	Anas	794	muel	885	plat
004	sarm	0901	bico	188	subu	275	viri	366	Lept ripa	463	Pleu schr	549	trif	684	Anth	796	cubi	886	thuj
005	viri	0911	caes	189	vasi	276	Font	367	Lept smit	464	Pohl acum	551	Sema	688	Anth	797	Leje	887	quad
006	trif	0912	capa	190	aspe	276/1	anti	368	Lept flex	465	albi	552	nova	689	laev	801	lana	888	Pill
007	aloi	0913	capa	191	denu	277	grac	369	Lept poly	466	annot	553	Spha	691	Alpha	802	lana	889	pule
008	aloi	0914	capa	192	unci	278	squa	370	Lept glau	467	crud	554	comp	692	Barb	803	patc	890	Radu
009	aloi	0915	dona	193	cirr	279	atte	371	Leuc aci	468	deli	555	cont	693	Barb	804	patc	891	comp
010	aloi	0916	erit	194	crisp	280	atle	372	Leuc aci	469	drem	556	cusp	694	Barb	805	patc	892	comp
011	aloi	0917	incl	195	crisp	281	atle	373	Leuc aci	470	drum	557	fimb	695	Barb	806	patc	893	comp
012	aloi	0918	incl	196	crisp	282	atle	374	Leuc aci	471	elon	558	fusc	696	Barb	807	patc	894	comp
013	aloi	0919	incl	197	crisp	283	atle	375	Leuc aci	472	ludw	559	girg	697	Barb	808	patc	895	comp
014	aloi	0920	incl	198	crisp	284	atle	376	Leuc aci	473	nuta	560	imbr	698	Barb	809	patc	896	comp
015	aloi	0921	incl	199	crisp	285	atle	377	Leuc aci	474	poli	561	mage	699	Barb	810	patc	897	comp
016	aloi	0922	incl	200	crisp	286	atle	378	Leuc aci	475	roth	562	mag	700	Bazz	811	patc	898	comp
017	aloi	0923	incl	201	crisp	287	atle	379	Leuc aci	476	aloi	563	moll	701	Bazz	812	patc	899	comp
018	aloi	0924	incl	202	crisp	288	atle	380	Leuc aci	477	aloi	564	nemo	702	Bazz	813	patc	900	comp
019	aloi	0925	incl	203	crisp	289	atle	381	Leuc aci	478	aloi	565	palu	703	Bazz	814	patc	901	comp
020	aloi	0926	incl	204	crisp	290	atle	382	Leuc aci	479	aloi	566	palu	704	Bazz	815	patc	902	comp
021	aloi	0927	incl	205	crisp	291	atle	383	Leuc aci	480	aloi	567	palu	705	Bazz	816	patc	903	comp
022	aloi	0928	incl	206	crisp	292	atle	384	Leuc aci	481	aloi	568	palu	706	Bazz	817	patc	904	comp
023	aloi	0929	incl	207	crisp	293	atle	385	Leuc aci	482	aloi	569	palu	707	Bazz	818	patc	905	comp
024	aloi	0930	incl	208	crisp	294	atle	386	Leuc aci	483	aloi	570	palu	708	Bazz	819	patc	906	comp
025	aloi	0931	incl	209	crisp	295	atle	387	Leuc aci	484	aloi	571	palu	709	Bazz	820	patc	907	comp
026	aloi	0932	incl	210	crisp	296	atle	388	Leuc aci	485	aloi	572	palu	710	Bazz	821	patc	908	comp
027	aloi	0933	incl	211	crisp	297	atle	389	Leuc aci	486	aloi	573	palu	711	Bazz	822	patc	909	comp
028	aloi	0934	incl	212	crisp	298	atle	390	Leuc aci	487	aloi	574	palu	712	Bazz	823	patc	910	comp
029	aloi	0935	incl	213	crisp	299	atle	391	Leuc aci	488	aloi	575	palu	713	Bazz	824	patc	911	comp
030	aloi	0936	incl	214	crisp	300	atle	392	Leuc aci	489	aloi	576	palu	714	Bazz	825	patc	912	comp
031	aloi	0937	incl	215	crisp	301	atle	393	Leuc aci	490	aloi	577	palu	715	Bazz	826	patc	913	comp
032	aloi	0938	incl	216	crisp	302	atle	394	Leuc aci	491	aloi	578	palu	716	Bazz	827	patc	914	comp
033	aloi	0939	incl	217	crisp	303	atle	395	Leuc aci	492	aloi	579	palu	717	Bazz	828	patc	915	comp
034	aloi	0940	incl	218	crisp	304	atle	396	Leuc aci	493	aloi	580	palu	718	Bazz	829	patc	916	comp
035	aloi	0941	incl	219	crisp	305	atle	397	Leuc aci	494	aloi	581	palu	719	Bazz	830	patc	917	comp
036	aloi	0942	incl	220	crisp	306	atle	398	Leuc aci	495	aloi	582	palu	720	Bazz	831	patc	918	comp
037	aloi	0943	incl	221	crisp	307	atle	399	Leuc aci	496	aloi	583	palu	721	Bazz	832	patc	919	comp
038	aloi	0944	incl	222	crisp	308	atle	400	Leuc aci	497	aloi	584	palu	722	Bazz	833	patc	920	comp
039	aloi	0945	incl	223	crisp	309	atle	401	Leuc aci	498	aloi	585	palu	723	Bazz	834	patc	921	comp
040	aloi	0946	incl	224	crisp	310	atle	402	Leuc aci	499	aloi	586	palu	724	Bazz	835	patc	922	comp
041	aloi	0947	incl	225	crisp	311	atle	403	Leuc aci	500	aloi	587	palu	725	Bazz	836	patc	923	comp
042	aloi	0948	incl	226	crisp	312	atle	404	Leuc aci	501	aloi	588	palu	726	Bazz	837	patc	924	comp
043	aloi	0949	incl	227	crisp	313	atle	405	Leuc aci	502	aloi	589	palu	727	Bazz	838	patc	925	comp
044	aloi	0950	incl	228	crisp	314	atle	406	Leuc aci	503	aloi	590	palu	728	Bazz	839	patc	926	comp
045	aloi	0951	incl	229	crisp	315	atle	407	Leuc aci	504	aloi	591	palu	729	Bazz	840	patc	927	comp
046	aloi	0952	incl	230	crisp	316	atle	408	Leuc aci	505	aloi	592	palu	730	Bazz	841	patc	928	comp
047	aloi	0953	incl	231	crisp	317	atle	409	Leuc aci	506	aloi	593	palu	731	Bazz	842	patc	929	comp
048	aloi	0954	incl	232	crisp	318	atle	410	Leuc aci	507	aloi	594	palu	732	Bazz	843	patc	930	comp
049	aloi	0955	incl	233	crisp	319	atle	411	Leuc aci	508	aloi	595	palu	733	Bazz	844	patc	931	comp
050	aloi	0956	incl	234	crisp	320	atle	412	Leuc aci	509	aloi	596	palu	734	Bazz	845	patc	932	comp
051	aloi	0957	incl	235	crisp	321	atle	413	Leuc aci	510	aloi	597	palu	735	Bazz	846	patc	933	comp
052	aloi	0958	incl	236	crisp	322	atle	414	Leuc aci	511	aloi	598	palu	736	Bazz	847	patc	934	comp
053	aloi	0959	incl	237	crisp	323	atle	415	Leuc aci	512	aloi	599	palu	737	Bazz	848	patc	935	comp
054	aloi	0960	incl	238	crisp	324	atle	416	Leuc aci	513	aloi	600	palu	738	Bazz	849	patc	936	comp
055	aloi	0961	incl	239	crisp	325	atle	417	Leuc aci	514	aloi	601	palu	739	Bazz	850	patc	937	comp
056	aloi	0962	incl	240	crisp	326	atle	418	Leuc aci	515	aloi	602	palu	740	Bazz	851	patc	938	comp
057	aloi	0963	incl	241	crisp	327	atle	419	Leuc aci	516	aloi	603	palu	741	Bazz	852	patc	939	comp
058	aloi	0964	incl	242	crisp	328	atle	420	Leuc aci	517	aloi	604	palu	742	Bazz	853	patc	940	comp
059	aloi	0965	incl	243	crisp	329	atle	421	Leuc aci	518	aloi	605	palu	743	Bazz	854	patc	941	comp
060	aloi	0966	incl	244	crisp	330	atle	422	Leuc aci	519	aloi	606	palu	744	Bazz	855	patc	942	comp
061	aloi	0967	incl	245	crisp	331	atle	423	Leuc aci	520	aloi	607	palu	745	Bazz	856	patc	943	comp
062	aloi	0968	incl	246	crisp	332	atle	424	Leuc aci	521	aloi	608	palu	746	Bazz	857	patc	944	comp
063	aloi	0969	incl	247	crisp	333	atle	425	Leuc aci	522	aloi	609	palu	747	Bazz	858	patc	945	comp
064	aloi	0970	incl	248	crisp	334	atle	426	Leuc aci	523	aloi	610	palu	748	Bazz	859	patc	946	comp
065	aloi	0971	incl	249	crisp	335	atle	427	Leuc aci	524	aloi	611	palu	749	Bazz	860	patc	947	comp
066	aloi	0972	incl	250	crisp	336	atle	428	Leuc aci	525	aloi	612	palu	750	Bazz	861	patc	948	comp
067	aloi	0973	incl	251	crisp	337	atle	429	Leuc aci	526	aloi	613	palu	751	Bazz	862	patc	949	comp
068	aloi	0974	incl	252	crisp	338	atle	430	Leuc aci	527	aloi	614	palu	752	Bazz	863	patc	950	comp
069	aloi	0975	incl	253	crisp	339	atle	431	Leuc aci	528	aloi	615	palu	753	Bazz	864	patc	951	comp
070	aloi	0976	incl	254	crisp	340	atle	432	Leuc aci	529	aloi	616	palu	754	Bazz	865	patc	952	comp
071	aloi	0977	incl	255	crisp	341	atle	433	Leuc aci	530	aloi	617	palu	755	Bazz	866	patc	953	comp
072	aloi	0978	incl	256	crisp	342	atle	434	Leuc aci	531	aloi	618	palu	756	Bazz	867	patc	954	comp
073	aloi	0979	incl	257	crisp	343	atle	435	Leuc aci	532	aloi	619	palu	757	Bazz	868	patc	955	comp
074	aloi	0980	incl	258	crisp	344	atle	436	Leuc aci	533	aloi	620	palu	758	Bazz	869	patc	956	comp
075	aloi	0981	incl	259	crisp	345	atle	437	Leuc aci	534	aloi	621	palu	759	Bazz	870	patc	957	comp
076	aloi	0982	incl	260	crisp	346	atle	438	Leuc aci	535	aloi	622	palu	760	Bazz	871	patc	958	comp
077	aloi	0983	incl	261	crisp	347	atle	439	Leuc aci	536	aloi	623	palu	761	Bazz	872	patc	959	comp
078	aloi	0984	incl	262	crisp	348	atle	440	Leuc aci	537	aloi	624	palu						

ANIMAL RECORD

REGN. LMA DIVN. WAT AREA - SITE BILL

SITE NAME: Rushbeds Wood
 RECORDER: B. Carleton
 LANDFORM: 1 2 3 4 5 6 7 8 9 10
 DATE: 7.5.79
 COUNTY: Buckinghamshire
 WEATHER: Dull with much cloud cover. Cool with very slight breeze.
 TIME: 1615 → 1810

HABITAT APPRAISAL

A	B	%	MGT.	DESCRIPTION	ROW	ANIMAL	fh	fc	r
0	5	60	700	large cutting - mostly covered in sp-rich mixed deciduous scrub. Areas of grass locally amongst it. Deep. on E. bank N. of tunnel - also rich in spp.. Old track bed, dumped ballast, demolished bridge, tunnel portal, small ponds & a culverted stream are present. The area is diverse and adds grassland & scrub margin habitats to woodland area.	1	Bird (small)	3	3	4
1	1	5	700		2	Bird (large)	2	3	2
1	6	5	700		3	Mamm. (small)	3	2	2
3	0	1	703		4	Mamm. (large)	2	2	1
3	0	1	703		5	Other Vert.	3	3	2
4	0	1	703		6	Lepidoptera	3		3
6	5	5	703		7	Other Insect	3	3	3
6	8	2	703		8	Other Invert	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	CODE	ORD.	INVERTS.
Willow Warbler	4720	1	3-spined Stickle-back Rabbit		3	Hemiptera - water boatman sp. Lasius sp. Oligochpeta comm.
Blackbird	4240	1				
Common Crow	3681	1				
Wood Pigeon	2990	1				
Great Tit	3790	1				
Song Thrush	4310	1				
cont. over			cont. over			
Cuckoo	3040	1				
Green Woodpecker	3380	1				
cont. over			cont. over			cont. over
						ASSOC. BR
cont. over			cont. over			cont. over

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME **Roads Cuttings**

Map Ref **SP746530** Data bank ref

NCC Region **East Midlands**

County **Northants..**

Internal ref **R136/B112**

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI	
---------	-------------	-----	------	-----	------	--

County Flora site. State ref -

Local Information site. State source - **JAKitchen, N.C.C..**

Discovery etc. (Describe) - **Random Sunny Site**

INTEREST

Plants	General	Local	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - **Calcicolous calcifuge grasslands. Exposed lime-stone rock. Deciduous scrub, pine shelter-belt**
 Geological) **land-slips.**

RAILWAY REGION

LMA

DIVISION

Watford

AREA

—

Address of Area Civil Engrs Office

C.W. Kendall (D.C.E.)

Telephone number

Melton Ho..

65/67 Clarendon Rd.

WATFORD.

Tel. No. 0923 44311 extn. 7355

Name of railway line

Junction of Northampton line with Euston → Crewe main line

Access at

Minor road bridge over at SP746530

Mileage post **60 3/4 → 61 1/4**

NOTIFICATION

Site notified to BR

Management agreement (see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
9th May 1979	Dr. C.M. Sargent B. Carleton & J.O. Mountford	Excellent very large and diverse site with big areas of several grassland types and much mixed deciduous scrub. A rich site providing a variety of habitats and vegetation types in a mainly arable area. Of considerable conservation interest so it probably is the major semi-natural locality in the immediate area. * Recommend further survey work on the cuttings esp. those further S towards Roads Stn.. Some management or conservation agreement is desirable but there is possibly insufficient worth to schedule.

FILE OPENED BY

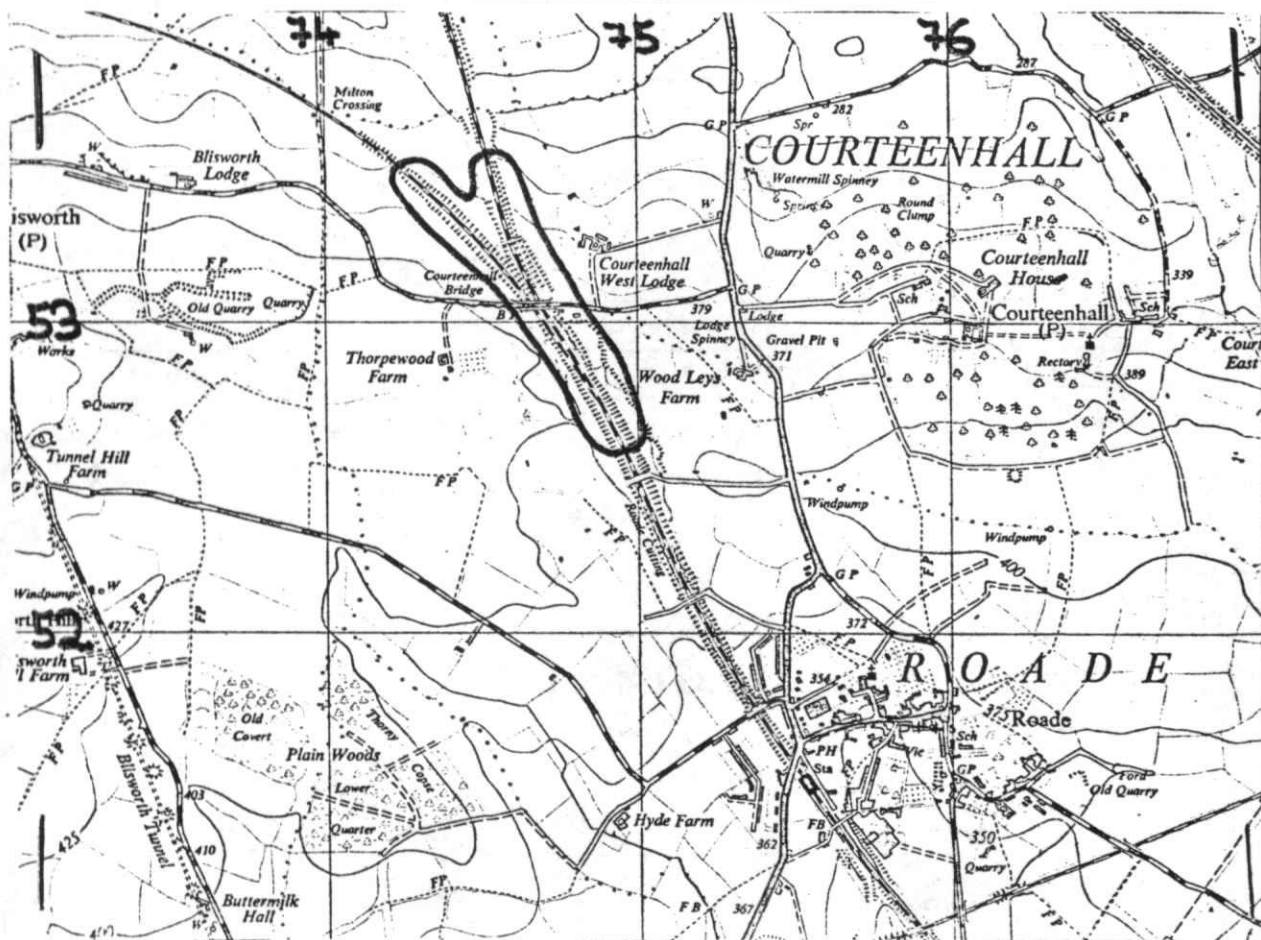
ITE Monks Wood

DATE

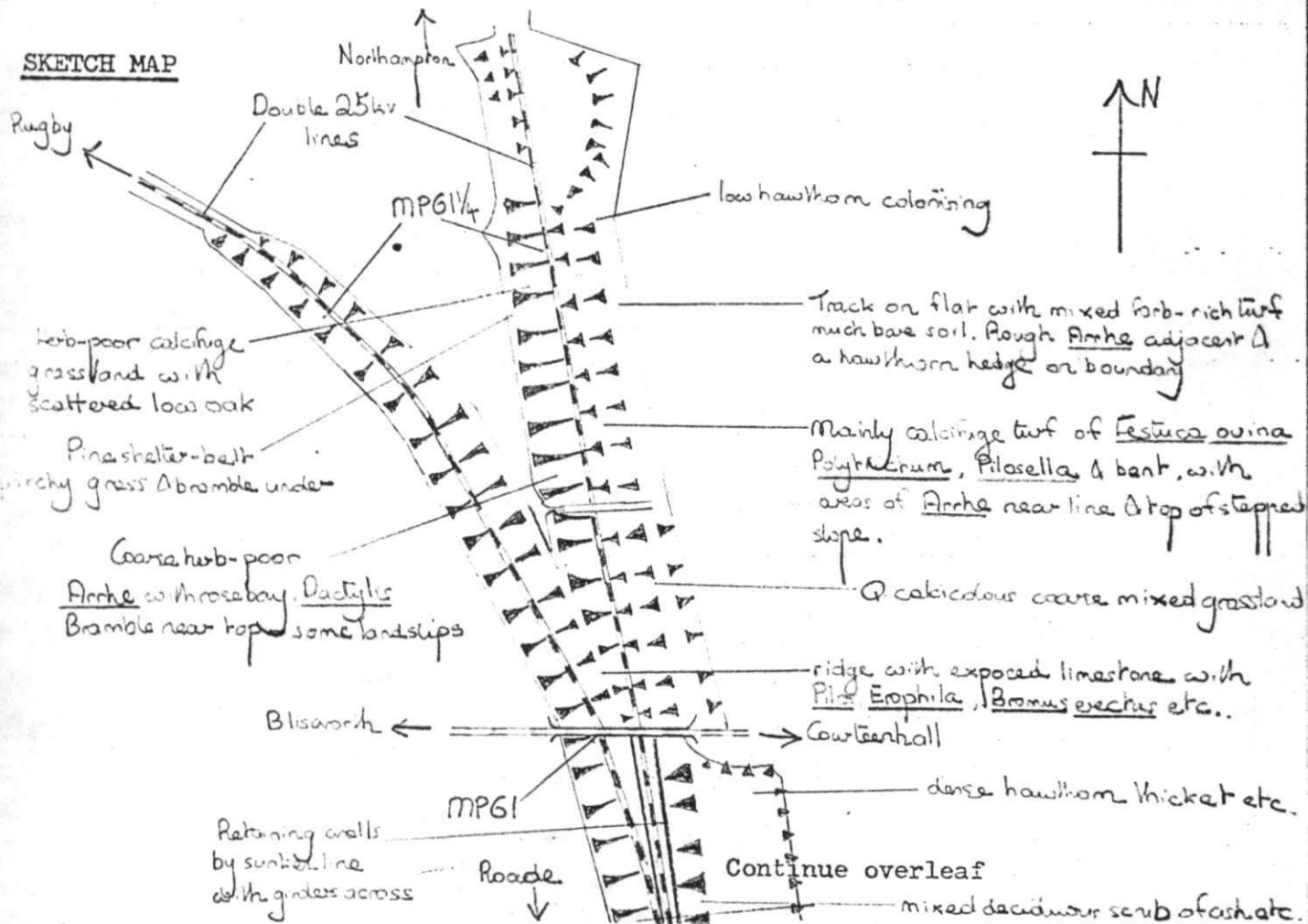
2nd Jan. 1980

LOCATION STATUS

Accurate	Approximate
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SKETCH MAP



SITE NAME Road Cuttings

CDB ref

(Section 3)
Internal ref R136/8112

Altitude 300 → 405

Local Geology Jurassic: N. end has Upper Lias Clay with Northampton Sand above. This dips below a section of lower & upper Estuarine Series with Blisworth Limestone on top in Sn. part.

Neighbouring landuses Arable agriculture.

DIRECTION FROM ACCESS

N E W S E W or **BOTH**

Dist from * access point	S.O → 200m	S.O → 200m	N.O → 100m	N.O → 200m	N.200 → 400m	N.200 → 400m	N.200 → 400m	N.200 → 400m
Side of track °	both	E	Middle	E	E	E	W	W
Landform x	S. Cut	Flat	Ridge	Cut	Cuts	Flat	Cut	Flat
Aspect-degrees	80°/260°	—	80°/260°	260°	260°	—	80°	—
Width-metres	35m →	75m	c. 40m	40m	c. 30m	10 → 20m	25 → 45m	6 → 16m
Disturbance +	—	—	—	—	—	—	Landslips	—

- * If site is both sides of access point, precede distance by cardinal point
- ° Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

The cuttings and allied earthworks are of considerable interest in the history of civil engineering. The variety of grassland types and the large area of scrub-cover is good. Presence of Ceterach on bridge N. of AP is interesting in this rather continental area.

General vegn characteristics and habitat description indicate side of track

The very large steep cuttings S. from Gwenthall Bridge go through Gt. Oolite limestone and have an open cover of ash and mixed calcicolous scrub with a rich ground flora and areas of forb-rich limestone turf [column 1]. The Northampton line is sunk in a deeper cutting shored up with walls and covered by iron girders to form a "partial tunnel". On the broad flat of spoil heaps SE. of the bridge is a dense almost impenetrable thorn scrub with little ground cover [column 2]. The ridge between the diverging lines north from the AP has a crest of exposed limestone with much Pilosella and Erophila. The grassland on either side is Brometum erectae with Polygonum & Viola hirta etc. [column 3]. From here on the Northampton line only was surveyed. The east side opposite the ridge had a mixed coarse calcicolous grassland with few herbs, and little Bromus erectus [column 4]. The bridge marks the beginning of the influence of the Northampton Sands & Lias Clay. On the N. facing wall is a good population of Ceterach, Asplenium & Dryopteris. Further north the east side has areas of coarse Arrhenatherum, red fescue near the line and near the slope top, but on the middle areas of the stepped slope is an interesting rather open turf of Pilosella, Festuca ovina, Agrostis tenuis, Rumex acetosella and Polytrichum juniperinum [column 5]. The flat above has areas of Arrhenatherum, low hawthorn and a thorn hedge but a trampled track conveys a forb-rich turf of clover etc with many spp. Rorobay becomes commoner in the north. [column 6]. The opposite slope has had several local landslips and the Sn. area near the Ceterach bridge has been shored up by a trackside wall. Generally there is a mixed forb-poor coarse calcifuge grassland of Arrhenatherum, Dactylis, Rorobay & Carex hirta with low oak trees (esp. near N. end where grass is patchier and lower with Holcus, beet etc.). [column 7]. The flat widens northward with bramble thickets giving way to a Pine shelterbelt with sparse bramble and calcifuge grasses underneath. R136 occupied 100m by MP 61 1/2 [column 8].

PREFERRED MANAGEMENT

Some scrub clearance with greening of grassland would maintain valuable areas and diversify site

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None

9.5.79 Jom.

Additional Species
CODE NAME

001	Acro mod	0874	vir	185	ruf	269	osmu	363	myur	460	Pleu acum	546	pauc	681	Adel	790	Lcio	883	laev
002	Acro	0875	arg	186	sch	272	rufu	364	stri	461	subu	547	pusi	682	Anas	791	bant	884	plann
003	Acro	0876	arg	187	aqua	273	taxi	365	Lept	462	Pleu squa	548	recu	683	Anas	794	turb	885	platt
004	Acro	0877	lana	188	subu	274	vari	366	Lept	463	Pleu schr	549	trif	684	Anth	796	Leje	886	lhu
005	Acro	0878	lana	189	vari	275	Font	367	Lept	464	Pohl	551	Serna	685	Anth	801	lana	887	quad
006	Acro	0879	caes	190	anti	276	anti	368	Lept	465	albi	552	nova	686	Anth	802	lana	888	Pri
007	Acro	0880	caes	191	anti	277	anti	369	Lept	466	albi	553	nova	687	Anth	803	lana	889	Pri
008	Acro	0881	cap	192	grac	278	grac	370	Lept	467	annot	554	Spha	688	Anth	804	lana	890	pubc
009	Acro	0882	cap	193	grac	279	grac	371	Lept	468	crud	555	comp	689	Anth	805	lana	891	Radu
010	Acro	0883	doni	194	ate	280	ate	372	Lept	469	dum	556	comp	690	Anth	806	lana	892	comp
011	Acro	0884	incl	195	flax	281	flax	373	Lept	470	dum	557	fimb	691	Anth	807	lana	893	comp
012	Acro	0885	incl	196	hygr	282	hygr	374	Lept	471	dum	558	fimb	692	Anth	808	lana	894	Rebo
013	Acro	0886	incl	197	hygr	283	hygr	375	Lept	472	ludw	559	fimb	693	Anth	809	lana	895	Rebo
014	Acro	0887	incl	198	hygr	284	hygr	376	Lept	473	ludw	560	girg	694	Anth	810	lana	896	Rloc
015	Acro	0888	incl	199	hygr	285	hygr	377	Lept	474	ludw	561	girg	695	Anth	811	lana	897	Rloc
016	Acro	0889	incl	200	hygr	286	hygr	378	Lept	475	nuta	562	girg	696	Anth	812	lana	898	Rloc
017	Acro	0890	incl	201	hygr	287	hygr	379	Lept	476	roth	563	girg	697	Anth	813	lana	899	Rloc
018	Acro	0891	incl	202	hygr	288	hygr	380	Lept	477	roth	564	girg	698	Anth	814	lana	900	Rloc
019	Acro	0892	incl	203	hygr	289	hygr	381	Lept	478	roth	565	girg	699	Anth	815	lana	901	Rloc
020	Acro	0893	incl	204	hygr	290	hygr	382	Lept	479	roth	566	girg	700	Bazz	816	lana	902	Rloc
021	Acro	0894	incl	205	hygr	291	hygr	383	Lept	480	roth	567	girg	701	Bazz	817	lana	903	Rloc
022	Acro	0895	incl	206	hygr	292	hygr	384	Lept	481	roth	568	girg	702	Bazz	818	lana	904	Rloc
023	Acro	0896	incl	207	hygr	293	hygr	385	Lept	482	roth	569	girg	703	Bazz	819	lana	905	Rloc
024	Acro	0897	incl	208	hygr	294	hygr	386	Lept	483	roth	570	girg	704	Bazz	820	lana	906	Rloc
025	Acro	0898	incl	209	hygr	295	hygr	387	Lept	484	roth	571	girg	705	Bazz	821	lana	907	Rloc
026	Acro	0899	incl	210	hygr	296	hygr	388	Lept	485	roth	572	girg	706	Bazz	822	lana	908	Rloc
027	Acro	0900	incl	211	hygr	297	hygr	389	Lept	486	roth	573	girg	707	Bazz	823	lana	909	Rloc
028	Acro	0901	incl	212	hygr	298	hygr	390	Lept	487	roth	574	girg	708	Bazz	824	lana	910	Rloc
029	Acro	0902	incl	213	hygr	299	hygr	391	Lept	488	roth	575	girg	709	Bazz	825	lana	911	Rloc
030	Acro	0903	incl	214	hygr	300	hygr	392	Lept	489	roth	576	girg	710	Bazz	826	lana	912	Rloc
031	Acro	0904	incl	215	hygr	301	hygr	393	Lept	490	roth	577	girg	711	Bazz	827	lana	913	Rloc
032	Acro	0905	incl	216	hygr	302	hygr	394	Lept	491	roth	578	girg	712	Bazz	828	lana	914	Rloc
033	Acro	0906	incl	217	hygr	303	hygr	395	Lept	492	roth	579	girg	713	Bazz	829	lana	915	Rloc
034	Acro	0907	incl	218	hygr	304	hygr	396	Lept	493	roth	580	girg	714	Bazz	830	lana	916	Rloc
035	Acro	0908	incl	219	hygr	305	hygr	397	Lept	494	roth	581	girg	715	Bazz	831	lana	917	Rloc
036	Acro	0909	incl	220	hygr	306	hygr	398	Lept	495	roth	582	girg	716	Bazz	832	lana	918	Rloc
037	Acro	0910	incl	221	hygr	307	hygr	399	Lept	496	roth	583	girg	717	Bazz	833	lana	919	Rloc
038	Acro	0911	incl	222	hygr	308	hygr	400	Lept	497	roth	584	girg	718	Bazz	834	lana	920	Rloc
039	Acro	0912	incl	223	hygr	309	hygr	401	Lept	498	roth	585	girg	719	Bazz	835	lana	921	Rloc
040	Acro	0913	incl	224	hygr	310	hygr	402	Lept	499	roth	586	girg	720	Bazz	836	lana	922	Rloc
041	Acro	0914	incl	225	hygr	311	hygr	403	Lept	500	roth	587	girg	721	Bazz	837	lana	923	Rloc
042	Acro	0915	incl	226	hygr	312	hygr	404	Lept	501	roth	588	girg	722	Bazz	838	lana	924	Rloc
043	Acro	0916	incl	227	hygr	313	hygr	405	Lept	502	roth	589	girg	723	Bazz	839	lana	925	Rloc
044	Acro	0917	incl	228	hygr	314	hygr	406	Lept	503	roth	590	girg	724	Bazz	840	lana	926	Rloc
045	Acro	0918	incl	229	hygr	315	hygr	407	Lept	504	roth	591	girg	725	Bazz	841	lana	927	Rloc
046	Acro	0919	incl	230	hygr	316	hygr	408	Lept	505	roth	592	girg	726	Bazz	842	lana	928	Rloc
047	Acro	0920	incl	231	hygr	317	hygr	409	Lept	506	roth	593	girg	727	Bazz	843	lana	929	Rloc
048	Acro	0921	incl	232	hygr	318	hygr	410	Lept	507	roth	594	girg	728	Bazz	844	lana	930	Rloc
049	Acro	0922	incl	233	hygr	319	hygr	411	Lept	508	roth	595	girg	729	Bazz	845	lana	931	Rloc
050	Acro	0923	incl	234	hygr	320	hygr	412	Lept	509	roth	596	girg	730	Bazz	846	lana	932	Rloc
051	Acro	0924	incl	235	hygr	321	hygr	413	Lept	510	roth	597	girg	731	Bazz	847	lana	933	Rloc
052	Acro	0925	incl	236	hygr	322	hygr	414	Lept	511	roth	598	girg	732	Bazz	848	lana	934	Rloc
053	Acro	0926	incl	237	hygr	323	hygr	415	Lept	512	roth	599	girg	733	Bazz	849	lana	935	Rloc
054	Acro	0927	incl	238	hygr	324	hygr	416	Lept	513	roth	600	girg	734	Bazz	850	lana	936	Rloc
055	Acro	0928	incl	239	hygr	325	hygr	417	Lept	514	roth	601	girg	735	Bazz	851	lana	937	Rloc
056	Acro	0929	incl	240	hygr	326	hygr	418	Lept	515	roth	602	girg	736	Bazz	852	lana	938	Rloc
057	Acro	0930	incl	241	hygr	327	hygr	419	Lept	516	roth	603	girg	737	Bazz	853	lana	939	Rloc
058	Acro	0931	incl	242	hygr	328	hygr	420	Lept	517	roth	604	girg	738	Bazz	854	lana	940	Rloc
059	Acro	0932	incl	243	hygr	329	hygr	421	Lept	518	roth	605	girg	739	Bazz	855	lana	941	Rloc
060	Acro	0933	incl	244	hygr	330	hygr	422	Lept	519	roth	606	girg	740	Bazz	856	lana	942	Rloc
061	Acro	0934	incl	245	hygr	331	hygr	423	Lept	520	roth	607	girg	741	Bazz	857	lana	943	Rloc
062	Acro	0935	incl	246	hygr	332	hygr	424	Lept	521	roth	608	girg	742	Bazz	858	lana	944	Rloc
063	Acro	0936	incl	247	hygr	333	hygr	425	Lept	522	roth	609	girg	743	Bazz	859	lana	945	Rloc
064	Acro	0937	incl	248	hygr	334	hygr	426	Lept	523	roth	610	girg	744	Bazz	860	lana	946	Rloc
065	Acro	0938	incl	249	hygr	335	hygr	427	Lept	524	roth	611	girg	745	Bazz	861	lana	947	Rloc
066	Acro	0939	incl	250	hygr	336	hygr	428	Lept	525	roth	612	girg	746	Bazz	862	lana	948	Rloc
067	Acro	0940	incl	251	hygr	337	hygr	429	Lept	526	roth	613	girg	747	Bazz	863	lana	949	Rloc
068	Acro	0941	incl	252	hygr	338	hygr	430	Lept	527	roth	614	girg	748	Bazz	864	lana	950	Rloc
069	Acro	0942	incl	253	hygr	339	hygr	431	Lept	528	roth	615	girg	749	Bazz	865	lana	951	Rloc
070	Acro	0943	incl	254	hygr	340	hygr	432	Lept	529	roth	616	girg	750	Bazz	866	lana	952	Rloc
071	Acro	0944	incl	255	hygr	341	hygr	433	Lept	530	roth	617	girg	751	Bazz	867	lana	953	Rloc
072	Acro	0945	incl	256	hygr	342	hygr	434	Lept	531	roth	618	girg	752	Bazz	868	lana	954	Rloc
073	Acro	0946	incl	257	hygr	343	hygr	435	Lept	532	roth	619	girg	753	Bazz	869	lana	955	Rloc
074	Acro	0947	incl	258	hygr	344	hygr	436	Lept	533	roth	620	girg	754	Bazz	870	lana	956	Rloc
075	Acro	0948	incl	259	hygr	345	hygr	437	Lept	534	roth	621	girg	755	Bazz	871	lana	957	Rloc
076	Acro	0949	incl	260	hygr	346	hygr	438	Lept	535	roth	622	girg	756	Bazz	872	lana	958	Rloc
077	Acro	0950	incl	261	hygr	347	hygr	439	Lept	536	roth	623	girg	757	Bazz	873	lana	959	Rloc
078	Acro	0951	incl	262	hygr	348	hygr	440	Lept	537	roth	624	girg	758	Bazz	874	lana	960	Rloc
079	Acro	0952	incl																

ANIMAL RECORD		REGN. LMA	DIVN. WAT	AREA	SITE B112/A136
SITE NAME Roadside Cuttings		RECORDER B. Carleton		LANDFORM 1 2 3 4 5 6 7 8 9 10	DATE 9.5.79
COUNTY Northants..		WEATHER Bright, sunny Δ with few clouds. Very slight breeze and warm esp. in shelter			TIME 1330 → 1730

HABITAT APPRAISAL

A	B	%	MGT.	DESCRIPTION	ROW	ANIMAL	fh	fc	r
0	0	5	700	Mainly coarse grassland in large cuttings with rabbit runs. Isolated trees, low hawthorn hedge Δ pine shelterbelt to N. Steeper with mixed deciduous scrub and closed thorn thicket to S.. Retaining crabs Δ bramble. Diverse habitat for all sites and types of bird and mammal. Big enough for territories and refuge in cont. Plant sp. not good but not exceptional with a reasonable diversity of food sp. A particularly good area in local rabbit context.	1	Bird (small)	3	3	3
0	3	2	700		2	Bird (large)	3	3	3
0	5	20	700		3	Mamm. (small)	3	3	3
1	1	10	700		4	Mamm. (large)	2	2	2
1	3	5	700		5	Other Vert.	.	3	3
1	6	50	700		6	Lepidoptera	3	.	3
1	8	5	700		7	Other Insect	3	3	3
6	8	5	700		8	Other Invert.	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS		CODE	ORD.	OTHER VERTS.		CODE	ORD.	INVERTS.	
Willow Warbler		4720	1	Common Lizard		1		Small White	
Tree Sparrow		5280	1	Rabbit		4		Small Tortoiseshell	
Yellowhammer		5580	1					Buff-tailed Bumble Bee	
Starling		5180	2					Red - " " "	
Woodpigeon		2990	1					Lasiussp. Δ hills	
Carrier Crow		3681	2					Wolf spider	
Chiffchaff		4730	2					Oligochaete worm	
Blackbird		4240	1						
Magpie		3720	3						
cont. over				cont. over					
Cuckoo		3040	1						
Skylark		3570	2						
cont. over				cont. over				cont. over	
								ASSOC. BR	
cont. over				cont. over				cont. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Dallington Heath

Map Ref SP720647 Data bank ref

NCC Region East Midlands

County Northants..

Internal ref B113

STATUS

Part of	<u>Adjacent to</u>	NNR	PNR	LNR	<u>SSSI</u>
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County Flora site. State ref -

Local Information site. State source - JAKitcher, NCC.

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	<u>Rare</u>	Very rare
Animals	Insects	Reptiles	<u>Birds</u>	Mammals

Habitat) describe - Streams and scrub with tall-belt of mainly coniferous trees. Bramble, rough grass and tall-herb stands.
)
Geological) Some cinder edge flora

RAILWAY REGION LMA DIVISION Watford AREA ---

Address of Area Civil Engrs Office CWKendall (D.C.E.)
Malton Ho.
65/67 Clarendon Rd.
WATFORD
Tel. No. 0923 44311 extn. 7355

Name of railway line Northampton -> Rugby

Access at Minor road bridge over at SP713653.

Mileage post 68³/₄ -> 69²/₄

NOTIFICATION

Site notified to BR

Management agreement (see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
<u>10th May 1979</u>	<u>Dr. C.M. Sargent, B. Colston & J.O. Mountford.</u>	<u>A good plant list with a number of local spp.. However the site had no relationship to the SSSI which is actually some distance S. into the woodland. Equally there is little in the way of good vegetation. However its presence as an area of rough vegetation with diverse flora on the edge of a conifer plantation and golf-course is notable and produces an above average conservation interest</u> <u>* Should be noted. The occurrence of such a good flora in a relatively unattractive site may well mean that some further examination of lines locally should follow</u>

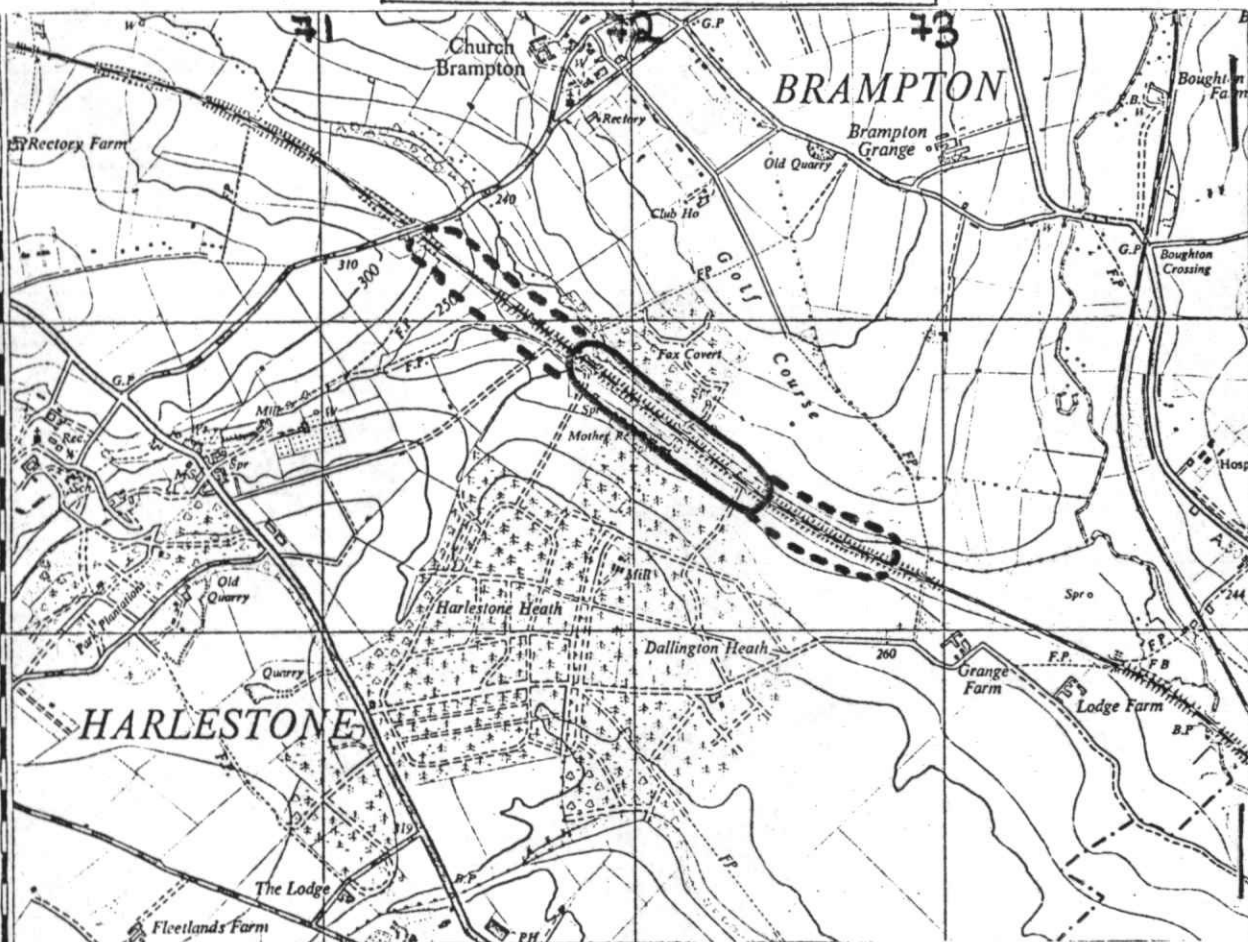
Continue overleaf

FILE OPENED BY ITE, Monks Wood

DATE 3rd January 1980

LOCATION STATUS

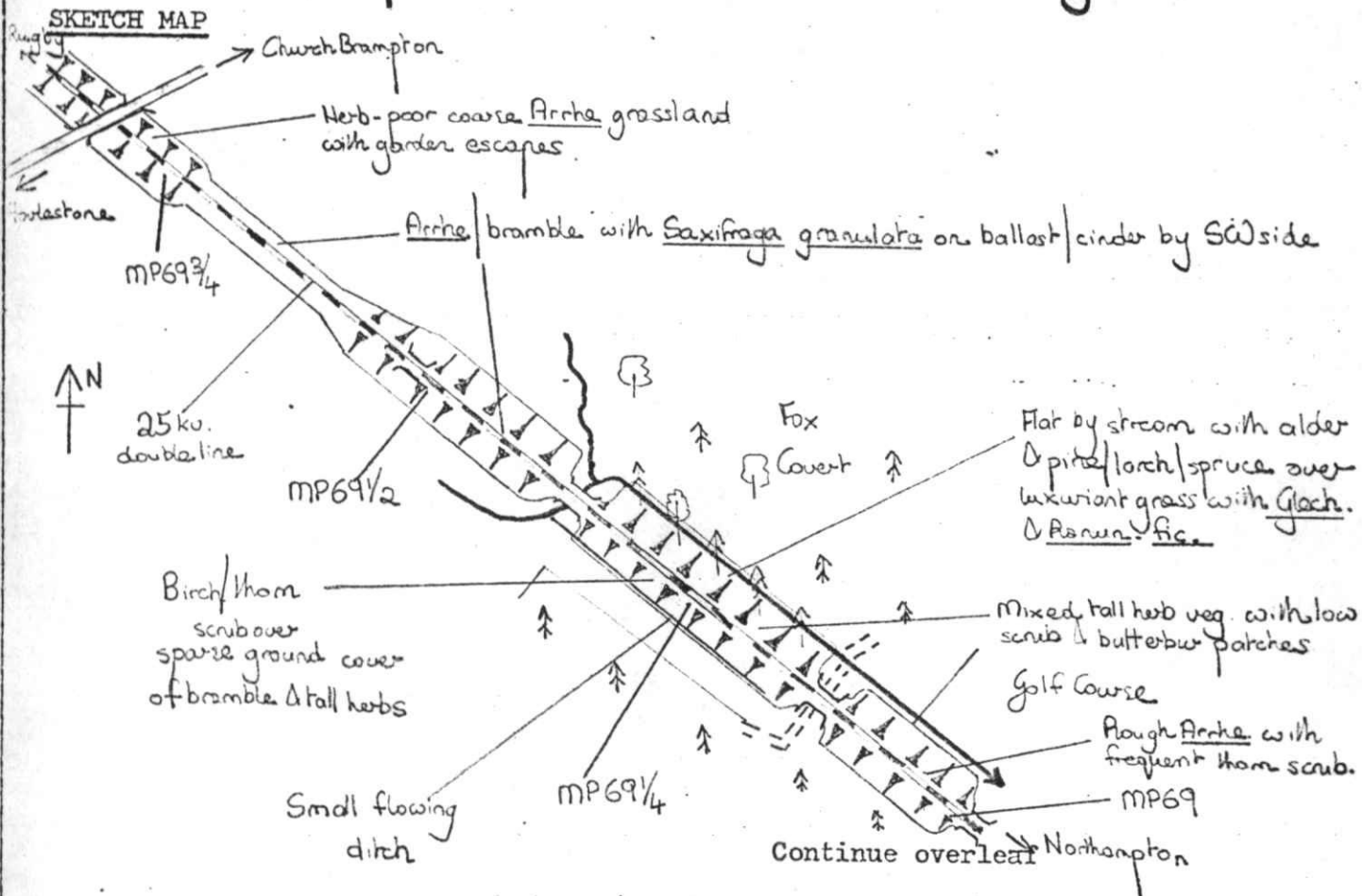
Accurate	Approximate
----------	-------------



= area of prime value

= area of secondary value.

SKETCH MAP



SITE NAME Dallington Heath

CDB ref

Internal ref 8113 (Section 3)Altitude 220' → 280'Local Geology Alluvium by stream. Elsewhere Jurassic Upper Lia
Clay with spurs of Northampton Sands reaching
line from higher groundNeighbouring landuses Golf course, conifer woodland and arable agriculture.

DIRECTION FROM ACCESS

N E W **S** E W or BOTH

Dist from * access point	0 →	0 →	100 →	700 →	700 →	700 →	700 →	1050 →	1500 →
	100m.	1250m.	700m	1250m	1250m	1250m	1050m	1500m	
Side of track °	both	both	both	SW	SW	NE	NE	both	
Landform x	Cut.	Flats	Flat → Emb.	Emb.	Ditch	Emb.	Flat/Stream	Emb.	
Aspect-degrees	40°/220°	—	40°/220°	220°	—	40°	—	40°/220°	
Width-metres	6+6m.	1m each	→ 15 each	15m.	1m.	18m.	10m.	±15 both	
Disturbance +	—	S.Cind.	Ma.Ball	Ma.Ball	—	Ma.Ball	—	—	

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST 127 spp., including the rare Geranium rotundifolium and Festuca longifolia, plus good populations of the local Saxifraga granulata and Potamogeton hybridus. The garden escapes of the AP are interesting and the streamside vegetation a valuable animal site.

General vegn characteristics and habitat description indicate side of track

The cinder margins of the line are quite well vegetated and have a large population of Saxifraga granulata among the moss and annuals on the SW side and scattered Geranium rotundifolium on the NE in similar vegetation [column 2]. The low cutting at the AP is mainly coarse herb-poor Arrhenatherum grassland with garden escapes q. common especially Syringa, Lupinus arboreus and Lathyrus latifolius [column 1]. This thins out to SE and then becomes an embankment. For much of the distance to the bridge over the stream near MP 69 1/4 there is a mosaic of rough Arrhenatherum grassland and bramble patches with rattle and rosebay plus loco bushes. These types grade into each other and are of little interest [column 3]. The SW embankment toward MP 69 1/4 and down to MP 69 is mainly covered in birch/thorn scrub over a rather sparse undergrowth of bramble, tall herbs and rough grass. This undergrowth thickens near the line where there is less croody cows [column 4]. The ditch along the bottom flows NW and has some wetland veg. by it but otherwise SE has a flora continuous with the slope [column 5]. The NE bank is a much less wooded slope but has a long leafy patchy flora of bramble, thorn bushes and tall herb vegetation including rosebay and considerable populations of butterbur. Both sides here show moderate ballast dumping [column 6]. The flat along the bottom has a mixed conifer stand of larch, pine, spruce with alder common along by the large stream which flows SE to join the Nara tributary draining Pitsford Reservoir. The ground flora here is a rather luxuriant low grassland with a number of shade spp. common and Geckonia plus Ranunculus ficaria abundant [column 7]. The embankment further SE, by the golf course is mainly rough herb-poor Arrhenatherum grassland with patches of Hawthorn scrub, these patches isolated on SW side but often coalescing to form thickets with bramble etc. on NE [column 8].

PREFERRED MANAGEMENT

Some thinning of scrub on embankment, removal of bramble & mowing of grass would help.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None bar ballasting. Spraying occurs but rich cinder flora here may mean it is ineffective or rare.

form 10.5.79.

LMA WAT . B113
 SITE NAME: Dallington Heath RECORDER: B. Guleton LANDFORM: 1 2 3 (4 5 6) 7 8 9 10 DATE: 10.5.79
 COUNTY: Northamptonshire WEATHER: Fairly cold with a slight wind and constant drizzle. Overcast. TIME: 1330 → 1530

HABITAT APPRAISAL

A	B	%	MGT.	DESCRIPTION	ROW	ANIMAL	fh	fc	r
0	2	15	700	Long length of track covering an embankment NW. to flat & low cutting. The general flora is a mixture of coarse <i>Arrhenatherum</i> , bramble & low birch/elm scrub but areas of planted conifers occur near MP6A1/4 and the inner edges are well vegetated. Good sp. lit with many food spp. & diversity of niche and cover. The neighbouring woodland and golf course are also good but the BR land adds to the variety noticeably and is significantly richer in birds.	1	Bird (small)	4	4	4
0	5	30	700		2	Bird (large)	3	3	3
1	6	50	703		3	Mamm. (small)	3	3	3
3	0	5	700		4	Mamm. (large)	2	2	2
4	8	1	703		5	Other Vert.	2	2	2
					6	Lepidoptera	3	.	3
					7	Other Insect	3	3	3
					8	Other Invert.	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	CODE	ORD.	INVERTS.
Green Woodpecker	3380	1	Rabbit		2	Buff-tailed Bumble-bee <i>Lasius</i> sp. & hills. Oak mistle gall <i>Oligoneurus</i> worm.
Blue Tit	3800	1				
Woodpigeon	2990	2				
Blackbird	4240	2				
Starling	5180	1				
Coal Tit	3820	1				
Long-tailed Tit	3880	1				
Yellowhammer	5580	1				
Chaffinch	5550	1				
Coot	1770	1				
cont. over			cont. over			
Garnier Crow	3681	3				
Rook	3700	3				
Starling	3570	2				
cont. over			cont. over			cont. over
						ASSOC. BR
cont. over			cont. over			cont. over

RAILWAY SITE OF BIOLOGICAL INTEREST

(Section 1)

SITE NAME **Bleak Hall**

Map Ref **SP858360** Data bank ref

NCC Region **South**

County **Buckinghamshire**

Internal ref **B114**

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI	
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County Flora site. State ref -

Local Information site. State source - **RJ Hornby - DRO, NCC and JG Kelsey - Milton Keynes Dev. Corp.**

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - **Large expanses of calcicolous rough grasslands, some scrub**
) **disturbed areas.**
 Geological)

RAILWAY REGION **LMA** DIVISION **Watford**

AREA -

Address of Area Civil Engrs Office **CW Kendall (DCE.)**
Telephone number **Milton Ho.**
65/67 Clarendon Rd
WATFORD
Tel. No. 0923 44311 extn. 7355

Name of railway line **Euston -> Crewe.**

Access at **Minor road bridge under off A5 at SP862355**

Mileage post **48 -> 48 3/4**

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
11th May 1979	Dr. C.M. Sargent, B. Catehon and J.O. Mountford.	A well-known site and important in history of railway construction. Rather featureless and recently burnt but still rich in spp. and providing a very large area of semi-natural vegetation particularly calcicolous grasslands. No really notable spp but important in increasingly disturbed & developed part of new city. * Recommend further survey work and possibly some management agreement to prevent destruction of site. Though not outstanding it may well gain from scheduling especially if such areas are rare in the city.

Continue overleaf

FILE OPENED BY **ITE, Mark Wood**

DATE **3rd January 1980**

Altitude 270' → 330'Local Geology Upper Jurassic: Oxford ClayNeighbouring landuses Scrub, development land etc

DIRECTION FROM ACCESS

<input checked="" type="radio"/> N	<input type="radio"/> E	<input checked="" type="radio"/> W	<input type="radio"/> S	<input type="radio"/> E	<input type="radio"/> W	or	<input type="checkbox"/> BOTH
------------------------------------	-------------------------	------------------------------------	-------------------------	-------------------------	-------------------------	----	-------------------------------

Dist from * access point	<u>250 →</u> <u>1250m.</u>	<u>250 →</u> <u>1250m.</u>	<u>250 →</u> <u>1000m.</u>	<u>1000 →</u> <u>1250m.</u>	<u>800 →</u> <u>1100m.</u>			
Side of track °	<u>NE</u>	<u>NE</u>	<u>SW</u>	<u>SW</u>	<u>SW</u>			
Landform x	<u>Cut.</u>	<u>Flat</u>	<u>Cut</u>	<u>Cut</u>	<u>Flat</u>			
Aspect-degrees	<u>240°</u>	<u>—</u>	<u>60°</u>	<u>60°</u>	<u>—</u>			
Width-metres	<u>c.40m.</u>	<u>→15m.</u>	<u>c.45m.</u>	<u>c.30m.</u>	<u>c.10m.</u>			
Disturbance +	<u>→Grass</u>	<u>—</u>	<u>Fire</u>	<u>—</u>	<u>—</u>			

- * If site is both sides of access point, precede distance by cardinal point
 ° Indicate side of track by compass cardinal point
 x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
 + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Large expanse of calcicolous grassland. Interesting association of
Bromus erectus and *Trifolium hybridum*

General vegn characteristics and habitat description indicate side of track

A relatively homogeneous site is a very large cutting about 1km long through the Oxford Clay. The NE side is *Bromatum erectae* which is generally herb-rich and has occasional bramble patches but generally very little and low scrub. There are areas near MP4 8 1/4 where the flora is rather poor in spp. but *Trifolium hybridum* is sub-dominant, *Centaurea nigra* and *Festuca* being also common. Bare soil and moss are frequent here. Elsewhere the vegetation is more typical calcicolous grassland with *Carex flacca*, *Primula veris*, *Polygonum* and *Cirsium aculeatum*. Near the top of the slope and onto the flat the vegetation is very much coarser with bramble and birch frequent and much low Hawthorn invading from hedgerow. There are tall herbaceous patches of rosebay and couch, with *Arrhenatherum* and *Dactylis* much commoner than on the lower slope [column 2]. The SW side appears to have been generally similar but rather less markedly calcareous with little *Bromus erectus* and *Arrhenatherum* | rosebay dominating the slopes and accompanying the cowslips etc. However the greater part of the slope has been burnt and is now bare of vegetation. Some regeneration is occurring locally and elsewhere we widespread [column 3]. North of the bridge there has been no fire and the vegetation pattern as summarised above is intact with much low scrub and a significant amount of *Brachypodium sylvaticum* and *Calamagrostis epigaeae* [column 4]. Finally the flat above the burnt slope especially above the commons on the slope has surviving mature mixed thorn scrub with an extensive ground cover rich in low grasses and bryophytes over the litter, with a number of taller shade spp. also present [column 5].

PREFERRED MANAGEMENT

Scrub cutting and grazing of grassland.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

The construction work toward the AP is causing considerable disturbance through spoil dumping etc. A the whole SWn. side shows signs of recent severe burning.

form 11.5.79.

Additional Species
NAME
CODE

001	Acu muti	0874	viri	185	rufe	269	omnu	363	myur	460	Pieu acum	546	pauc	681	Adcl	790	Lzto	883	lav
002	Acro cord	0875	arge	186	schr	272	rufu	364	stri	461	subu	547	pust	682	Anas	791	bant	884	plinn
003	Acro cord	0876	lana	187	subu	273	taki	365	Lept ripa	462	Pieu squa	548	trif	683	Anas	794	bnul	885	thuj
004	Acro cord	0877	lana	188	viri	274	Font	366	Lept ripa	463	Pieu schr	549	trif	684	Anh	796	turb	886	thuj
005	Acro cord	0878	lana	189	viri	275	Font	367	Lept smlt	464	Pohl acum	550	trif	685	Anh	801	lama	887	quad
006	Acro cord	0879	lana	190	viri	276	Font	368	Lept smlt	465	Pohl acum	551	Sema	686	Anh	801	lama	888	quad
007	Acro cord	0880	lana	191	viri	277	Font	369	Lept smlt	466	Pohl acum	552	Sema	687	Anh	801	lama	889	quad
008	Acro cord	0881	lana	192	viri	278	Font	370	Lept smlt	467	Pohl acum	553	Sema	688	Anh	801	lama	890	quad
009	Acro cord	0882	lana	193	viri	279	Font	371	Lept smlt	468	Pohl acum	554	Sema	689	Anh	801	lama	891	quad
010	Acro cord	0883	lana	194	viri	280	Font	372	Lept smlt	469	Pohl acum	555	Sema	690	Anh	801	lama	892	quad
011	Acro cord	0884	lana	195	viri	281	Font	373	Lept smlt	470	Pohl acum	556	Sema	691	Anh	801	lama	893	quad
012	Acro cord	0885	lana	196	viri	282	Font	374	Lept smlt	471	Pohl acum	557	Sema	692	Anh	801	lama	894	quad
013	Acro cord	0886	lana	197	viri	283	Font	375	Lept smlt	472	Pohl acum	558	Sema	693	Anh	801	lama	895	quad
014	Acro cord	0887	lana	198	viri	284	Font	376	Lept smlt	473	Pohl acum	559	Sema	694	Anh	801	lama	896	quad
015	Acro cord	0888	lana	199	viri	285	Font	377	Lept smlt	474	Pohl acum	560	Sema	695	Anh	801	lama	897	quad
016	Acro cord	0889	lana	200	viri	286	Font	378	Lept smlt	475	Pohl acum	561	Sema	696	Anh	801	lama	898	quad
017	Acro cord	0890	lana	201	viri	287	Font	379	Lept smlt	476	Pohl acum	562	Sema	697	Anh	801	lama	899	quad
018	Acro cord	0891	lana	202	viri	288	Font	380	Lept smlt	477	Pohl acum	563	Sema	698	Anh	801	lama	900	quad
019	Acro cord	0892	lana	203	viri	289	Font	381	Lept smlt	478	Pohl acum	564	Sema	699	Anh	801	lama	901	quad
020	Acro cord	0893	lana	204	viri	290	Font	382	Lept smlt	479	Pohl acum	565	Sema	700	Bazz	802	tric	902	quad
021	Acro cord	0894	lana	205	viri	291	Font	383	Lept smlt	480	Pohl acum	566	Sema	701	Bazz	802	tric	903	quad
022	Acro cord	0895	lana	206	viri	292	Font	384	Lept smlt	481	Pohl acum	567	Sema	702	Bazz	802	tric	904	quad
023	Acro cord	0896	lana	207	viri	293	Font	385	Lept smlt	482	Pohl acum	568	Sema	703	Bazz	802	tric	905	quad
024	Acro cord	0897	lana	208	viri	294	Font	386	Lept smlt	483	Pohl acum	569	Sema	704	Bazz	802	tric	906	quad
025	Acro cord	0898	lana	209	viri	295	Font	387	Lept smlt	484	Pohl acum	570	Sema	705	Bazz	802	tric	907	quad
026	Acro cord	0899	lana	210	viri	296	Font	388	Lept smlt	485	Pohl acum	571	Sema	706	Bazz	802	tric	908	quad
027	Acro cord	0900	lana	211	viri	297	Font	389	Lept smlt	486	Pohl acum	572	Sema	707	Bazz	802	tric	909	quad
028	Acro cord	0901	lana	212	viri	298	Font	390	Lept smlt	487	Pohl acum	573	Sema	708	Bazz	802	tric	910	quad
029	Acro cord	0902	lana	213	viri	299	Font	391	Lept smlt	488	Pohl acum	574	Sema	709	Bazz	802	tric	911	quad
030	Acro cord	0903	lana	214	viri	300	Font	392	Lept smlt	489	Pohl acum	575	Sema	710	Bazz	802	tric	912	quad
031	Acro cord	0904	lana	215	viri	301	Font	393	Lept smlt	490	Pohl acum	576	Sema	711	Bazz	802	tric	913	quad
032	Acro cord	0905	lana	216	viri	302	Font	394	Lept smlt	491	Pohl acum	577	Sema	712	Bazz	802	tric	914	quad
033	Acro cord	0906	lana	217	viri	303	Font	395	Lept smlt	492	Pohl acum	578	Sema	713	Bazz	802	tric	915	quad
034	Acro cord	0907	lana	218	viri	304	Font	396	Lept smlt	493	Pohl acum	579	Sema	714	Bazz	802	tric	916	quad
035	Acro cord	0908	lana	219	viri	305	Font	397	Lept smlt	494	Pohl acum	580	Sema	715	Bazz	802	tric	917	quad
036	Acro cord	0909	lana	220	viri	306	Font	398	Lept smlt	495	Pohl acum	581	Sema	716	Bazz	802	tric	918	quad
037	Acro cord	0910	lana	221	viri	307	Font	399	Lept smlt	496	Pohl acum	582	Sema	717	Bazz	802	tric	919	quad
038	Acro cord	0911	lana	222	viri	308	Font	400	Lept smlt	497	Pohl acum	583	Sema	718	Bazz	802	tric	920	quad
039	Acro cord	0912	lana	223	viri	309	Font	401	Lept smlt	498	Pohl acum	584	Sema	719	Bazz	802	tric	921	quad
040	Acro cord	0913	lana	224	viri	310	Font	402	Lept smlt	499	Pohl acum	585	Sema	720	Bazz	802	tric	922	quad
041	Acro cord	0914	lana	225	viri	311	Font	403	Lept smlt	500	Pohl acum	586	Sema	721	Bazz	802	tric	923	quad
042	Acro cord	0915	lana	226	viri	312	Font	404	Lept smlt	501	Pohl acum	587	Sema	722	Bazz	802	tric	924	quad
043	Acro cord	0916	lana	227	viri	313	Font	405	Lept smlt	502	Pohl acum	588	Sema	723	Bazz	802	tric	925	quad
044	Acro cord	0917	lana	228	viri	314	Font	406	Lept smlt	503	Pohl acum	589	Sema	724	Bazz	802	tric	926	quad
045	Acro cord	0918	lana	229	viri	315	Font	407	Lept smlt	504	Pohl acum	590	Sema	725	Bazz	802	tric	927	quad
046	Acro cord	0919	lana	230	viri	316	Font	408	Lept smlt	505	Pohl acum	591	Sema	726	Bazz	802	tric	928	quad
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048	Acro cord	0921	lana	232	viri	318	Font	410	Lept smlt	507	Pohl acum	593	Sema	728	Bazz	802	tric	930	quad
049	Acro cord	0922	lana	233	viri	319	Font	411	Lept smlt	508	Pohl acum	594	Sema	729	Bazz	802	tric	931	quad
050	Acro cord	0923	lana	234	viri	320	Font	412	Lept smlt	509	Pohl acum	595	Sema	730	Bazz	802	tric	932	quad
051	Acro cord	0924	lana	235	viri	321	Font	413	Lept smlt	510	Pohl acum	596	Sema	731	Bazz	802	tric	933	quad
052	Acro cord	0925	lana	236	viri	322	Font	414	Lept smlt	511	Pohl acum	597	Sema	732	Bazz	802	tric	934	quad
053	Acro cord	0926	lana	237	viri	323	Font	415	Lept smlt	512	Pohl acum	598	Sema	733	Bazz	802	tric	935	quad
054	Acro cord	0927	lana	238	viri	324	Font	416	Lept smlt	513	Pohl acum	599	Sema	734	Bazz	802	tric	936	quad
055	Acro cord	0928	lana	239	viri	325	Font	417	Lept smlt	514	Pohl acum	600	Sema	735	Bazz	802	tric	937	quad
056	Acro cord	0929	lana	240	viri	326	Font	418	Lept smlt	515	Pohl acum	601	Sema	736	Bazz	802	tric	938	quad
057	Acro cord	0930	lana	241	viri	327	Font	419	Lept smlt	516	Pohl acum	602	Sema	737	Bazz	802	tric	939	quad
058	Acro cord	0931	lana	242	viri	328	Font	420	Lept smlt	517	Pohl acum	603	Sema	738	Bazz	802	tric	940	quad
059	Acro cord	0932	lana	243	viri	329	Font	421	Lept smlt	518	Pohl acum	604	Sema	739	Bazz	802	tric	941	quad
060	Acro cord	0933	lana	244	viri	330	Font	422	Lept smlt	519	Pohl acum	605	Sema	740	Bazz	802	tric	942	quad
061	Acro cord	0934	lana	245	viri	331	Font	423	Lept smlt	520	Pohl acum	606	Sema	741	Bazz	802	tric	943	quad
062	Acro cord	0935	lana	246	viri	332	Font	424	Lept smlt	521	Pohl acum	607	Sema	742	Bazz	802	tric	944	quad
063	Acro cord	0936	lana	247	viri	333	Font	425	Lept smlt	522	Pohl acum	608	Sema	743	Bazz	802	tric	945	quad
064	Acro cord	0937	lana	248	viri	334	Font	426	Lept smlt	523	Pohl acum	609	Sema	744	Bazz	802	tric	946	quad
065	Acro cord	0938	lana	249	viri	335	Font	427	Lept smlt	524	Pohl acum	610	Sema	745	Bazz	802	tric	947	quad
066	Acro cord	0939	lana	250	viri	336	Font	428	Lept smlt	525	Pohl acum	611	Sema	746	Bazz	802	tric	948	quad
067	Acro cord	0940	lana	251	viri	337	Font	429	Lept smlt	526	Pohl acum	612	Sema	747	Bazz	802	tric	949	quad
068	Acro cord	0941	lana	252	viri	338	Font	430	Lept smlt	527	Pohl acum	613	Sema	748	Bazz	802	tric	950	quad
069	Acro cord	0942	lana	253	viri	339	Font	431	Lept smlt	528	Pohl acum	614	Sema	749	Bazz	802	tric	951	quad
070	Acro cord	0943	lana	254	viri	340	Font	432	Lept smlt	529	Pohl acum	615	Sema	750	Bazz	802	tric	952	quad
071	Acro cord	0944	lana	255	viri	341	Font	433	Lept smlt	530	Pohl acum	616	Sema	751	Bazz	802	tric	953	quad
072	Acro cord	0945	lana	256	viri	342	Font	434	Lept smlt	531	Pohl acum	617	Sema	752	Bazz	802	tric	954	quad
073	Acro cord	0946	lana	257	viri	343	Font	435	Lept smlt	532	Pohl acum	618	Sema	753	Bazz	802	tric	955	quad
074	Acro cord	0947	lana	258	viri	344	Font	436	Lept smlt	533	Pohl acum	619	Sema	754	Bazz	802	tric	956	quad
075	Acro cord	0948	lana	259	viri	345	Font	437	Lept smlt	534	Pohl acum	620	Sema	755	Bazz	802	tric	957	quad
076	Acro cord	0949	lana	260	viri	346	Font	438	Lept smlt	535	Pohl acum	621	Sema	756	Bazz	802	tric	958	quad
077	Acro cord	0950	lana	261	viri	347	Font	439	Lept smlt	536	Pohl acum	622	Sema	757	Bazz	802	tric	9	

LMA WAT AREA B114

SITE NAME Denbigh Hall/Black Hall		RECORDER B. Carleton	LANDFORM 1 2 3 4 5 6 7 8 9 10	DATE 11.5.79
COUNTY Buckinghamshire		WEATHER Bright, sunny and warm with quite a bit of cloud cover and with slight breeze.		TIME 1330 → 1645

HABITAT APPRAISAL

A	B	%	MGT.	DESCRIPTION	ROW	ANIMAL	fh	fc	r
0	5	20	700	Large cutting by very busy electric line. Some additional disturbances through building near APΔ sewer burning on SW. side. Generally a rough grassy site rich in spp. with calcareous soil. Scrub/bramble near the top. A bridge across the cutting adds a further habitat. Extensive and probably a valuable invertebrate site based on the good flora. There is cover but neighbouring woodland is rather better. None the less a good site of worth in urban context.	1	Bird (small)	3	3	3
1	1	40	700		2	Bird (large)	3	3	2
01	6	40	707		3	Mamm. (small)	4	3	3
6	8	-	700		4	Mamm. (large)	2	2	1
					5	Other Vert.	.	2	2
					6	Lepidoptera	3	.	3
					7	Other Insect	3	3	3
					8	Other Invert	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS		CODE	ORD.	OTHER VERTS.	CODE	ORD.	INVERTS.
Maggie		3720	2	Rabbit		2	Small White Small Tortoiseshell Large White Buff-tailed Bumble Bee 7-spot Ladybird Lasius sp. & hills Various: Diptera (inc. Houseflies) Isopoda Diplopoda
Common Crow		3681	2				
Chaffinch		5550	1				
Woodpigeon		2990	2				
Jay		3750	1				
Great Tit		3790	2				
Starling (nest)		5180	2				
Kestrel		1480	1				
Yellowhammer		5580	1				
Scoift		3270	2				
cont. over				cont. over			
Rook (nest)		3700	2				
cont. over				cont. over			cont. over
							ASSOC. BR
cont. over				cont. over			cont. over

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Kibworth Cutting

Map Ref SP67.94.

Data bank ref

NCC Region East Midland

County Leicestershire

Internal ref 8115

STATUS

Part of	Adjacent to	NNR	PNNR	LNR	SSSI	
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County Flora site. State ref -

Local Information site. State source - R. Parslow, N.C.C., R.S.A.

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	Local	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - An interesting variety of calcicolous grassland types, both damp and dry
 Geological)

RAILWAY REGION LMA DIVISION Nottingham

AREA -

Address of Area Civil Engrs Office G. Law (D.C.E.)

Telephone number

Fulong House
Queen's Drive
NOTTINGHAM

Tel. No. 0602 48531 extn. 2369

Name of railway line Leicester -> Bedford

Access at Minor road bridge over at SP672942

Mileage post 89 1/4 -> 2/4

NOTIFICATION

	With whom	By whom	Date	Ref.
Site notified to BR				
Management agreement (see section 3 for detail)				

VISITS

Date	By whom	Assessment/Action
<u>21st May 1979</u>	<u>Dr. C.M. Sargent, B. Carleton and J.O. Mountford.</u>	<u>A very pleasant rich site with no spp. of great note but large areas of good calcicolous grassland including some damp mossy kinds. There are also patches of scrub. The whole site is valuable in the local area, and poorly wooded area. It is not outstanding but provides a notable refuge.</u> <u>* Recommend survey of other cuttings and larger embankment in the area to discover other sites. This does not merit scheduling but some contact with BR to reach a sympathetic management agreement is desirable. The site should be noted and possibly monitored.</u>

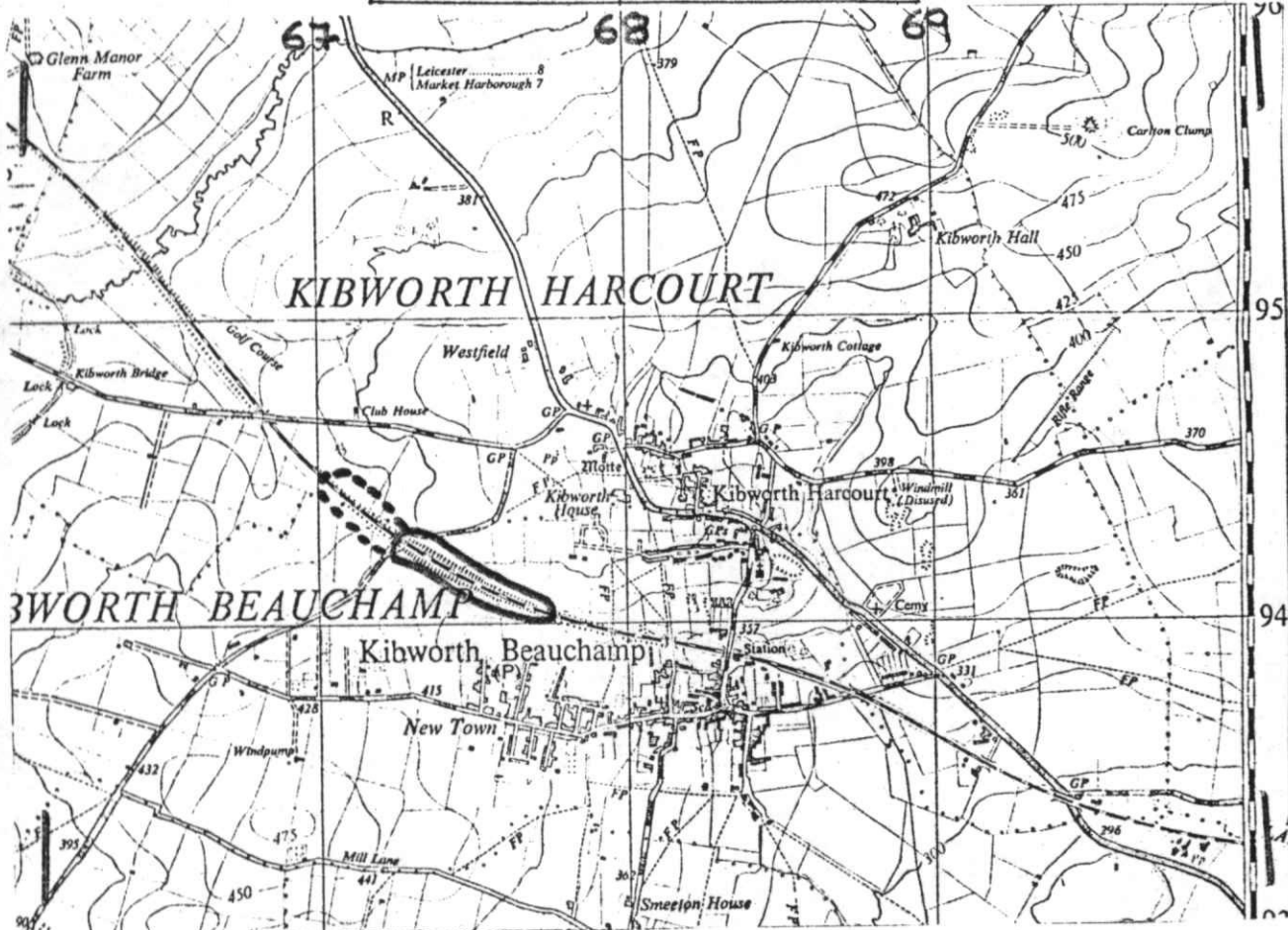
Continue overleaf

FILE OPENED BY ITE. Monks Wood

DATE 4th January 1980

LOCATION STATUS

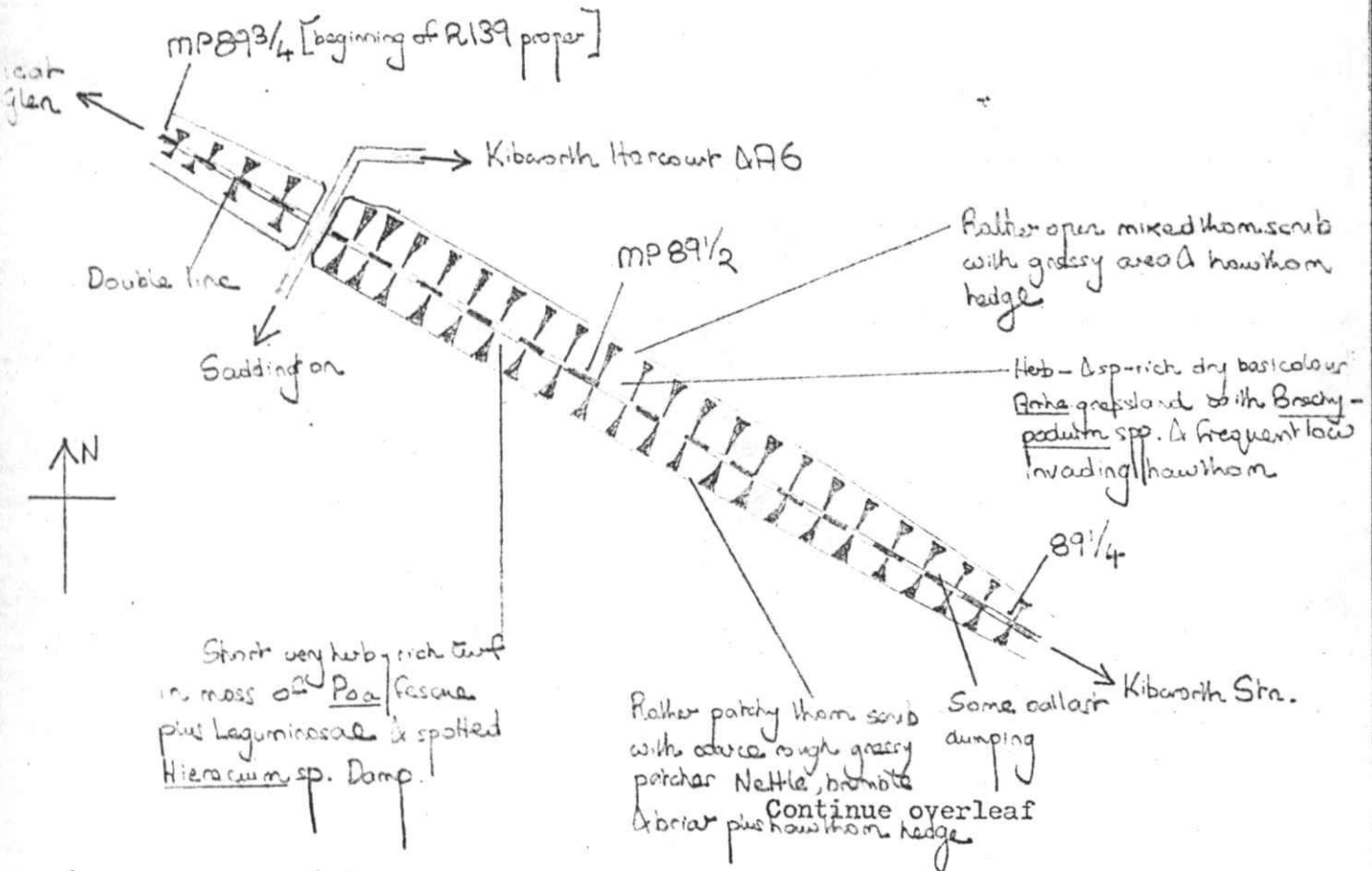
Accurate	Approximate
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○ = B115

○ (dashed) = R139

SKETCH MAP



SITE NAME Kibworth Cutting

CDB ref

(Section 3)
Internal ref B115Altitude 375' → 410'Local Geology Boulder Clay over Jurassic Lower Lias ClayNeighbouring Landuses Arable agriculture.

DIRECTION FROM ACCESS

N	E	W	(S)	E	W	or	BOTH
---	---	---	-----	---	---	----	------

Dist from * access point	0 → 600m	0 → 600m	0 → 600m	0 → 600m	0 → 600m	0 → 600m		
Side of track °	NE.	NE	NE	SW	SW	SW		
Landform x	Cut	Cut.	Cut/Flat	Cut.	Cut.	Cut.		
Aspect-degrees	210°	210°	210°	30°	30°	30°		
Width-metres	2.7m	2m	2+4m	13m	15m	9m		
Disturbance +	—	L.Ball.	—	Slips.	—	—		

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Calcicolous vegetation both damp and dry in area with little native grassland. The pattern on the soil-slips is particularly interesting.

General vegn characteristics and habitat description indicate side of track

Relatively homogeneous moderately large cutting through boulder clay with dense hawthorn hedges along both sides forming barrier to NL and providing source of scrub encroachment which is common all along the site. The NE side is dry and mainly covered in quite herb-rich Arrhenatherum grassland with patches of Brachypodium pinnatum, and some evidently more grassy areas with a good assemblage of calcicoler herbs? [Carex flacca, Plantago media, Poterium, & Cissium aculeata. Poa spp. are locally common as are Plantago lanceolata, Centaurea nigra & Leucanthemum [column 1]. Locally near the line ballast dumping has occurred and a much poorer Arrhenatherum with ephemerals and weeds is found [column 2]. There is a narrow flat at the top with invading hawthorn, bramble/briar and coarse grasses, going up to the hedge [column 3]. The SW side is generally damper and land-slips have occurred in the past (possibly due to spring-lines at the junction of boulder clay layers or above the Lias?). There have a fine Poa/Cassia grassland with abundant Hieracium sp. all rooted in a moss carpet of Hyrium, Brachythracium rutabulum, Mnium affine and Lophocolea bidentata. Lotus, Trifolium and Doxylis are also common in this very herb-rich turf [column 4]. The drainage have more Arrhenatherum with the Poa/Cassia and large populations of Tussilago plus low invading hawthorn. The lower edge has been locally shored up with a retaining wall presumably in response to land-slippage [column 5]. Finally the upper third of the slope is covered in rather patchy hawthorn scrub with some coarse grassy areas amongst it. Coarse herbs especially Urtica occur on the edge of the bramble/briar thickets, and Galium aparine & mossy areas are found in deeper shade esp. near marginal hedge [column 6].

PREFERRED MANAGEMENT

Some rough scrub cutting and grazing of grassland to prevent further encroachment and swampy by coarse grasses. The hedges and scrub should be partly maintained for shelter.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None but ballasting, and local rabbit activity.

form 21.5.79.

Continue overleaf

Additional Species
NAME
CODE

001	Acau	muti	0874	viri	185	rufe	269	oamu	363	myur	460	Pleu	546	pauc	681	Adel	790	Leio	883	lary
003	Acro	cord	0875	arpe	186	schr	272	rufu	364	piri	461	subu	547	recu	682	Anas	791	bant	884	piam
004	Acro	cusp	0876	arpe	187	schr	273	taxi	365	Lept	462	subu	548	trif	683	Anas	794	muel	885	plat
005	Acro	scap	0877	bico	188	subu	274	viri	366	Lept	463	subu	549	trif	684	Anth	796	turb	886	thuj
006	Acro	scap	0878	bico	189	subu	275	Font	367	Lept	464	subu	550	trif	685	Anth	797	Leje	887	quad
007	Acro	scap	0879	bico	190	subu	276	Font	368	Lept	465	subu	551	Sema	689	Anth	801	lame	888	quid
008	Acro	scap	0880	bico	191	subu	277	Font	369	Lept	466	subu	552	Sema	690	Anth	802	lame	889	cill
009	Acro	scap	0881	bico	192	subu	278	Font	370	Lept	467	subu	553	Sema	691	Apha	803	lame	890	puc
010	Acro	scap	0882	bico	193	subu	279	Font	371	Lept	468	subu	554	Sema	692	Barb	804	pate	891	comp
011	Acro	scap	0883	bico	194	subu	280	Font	372	Lept	469	subu	555	Sema	693	Barb	805	ulic	892	comp
012	Acro	scap	0884	bico	195	subu	281	Font	373	Lept	470	subu	556	Sema	694	Barb	806	ulic	893	comp
013	Acro	scap	0885	bico	196	subu	282	Font	374	Lept	471	subu	557	Sema	695	Barb	807	ulic	894	comp
014	Acro	scap	0886	bico	197	subu	283	Font	375	Lept	472	subu	558	Sema	696	Barb	808	ulic	895	comp
015	Acro	scap	0887	bico	198	subu	284	Font	376	Lept	473	subu	559	Sema	697	Barb	809	ulic	896	comp
016	Acro	scap	0888	bico	199	subu	285	Font	377	Lept	474	subu	560	Sema	698	Barb	810	ulic	897	comp
017	Acro	scap	0889	bico	200	subu	286	Font	378	Lept	475	subu	561	Sema	699	Barb	811	ulic	898	comp
018	Acro	scap	0890	bico	201	subu	287	Font	379	Lept	476	subu	562	Sema	700	Bazz	812	ulic	899	comp
019	Acro	scap	0891	bico	202	subu	288	Font	380	Lept	477	subu	563	Sema	701	Bazz	813	ulic	900	comp
020	Acro	scap	0892	bico	203	subu	289	Font	381	Lept	478	subu	564	Sema	702	Bazz	814	ulic	901	comp
021	Acro	scap	0893	bico	204	subu	290	Font	382	Lept	479	subu	565	Sema	703	Biaz	815	ulic	902	comp
022	Acro	scap	0894	bico	205	subu	291	Font	383	Lept	480	subu	566	Sema	704	Biaz	816	ulic	903	comp
023	Acro	scap	0895	bico	206	subu	292	Font	384	Lept	481	subu	567	Sema	705	Biaz	817	ulic	904	comp
024	Acro	scap	0896	bico	207	subu	293	Font	385	Lept	482	subu	568	Sema	706	Biaz	818	ulic	905	comp
025	Acro	scap	0897	bico	208	subu	294	Font	386	Lept	483	subu	569	Sema	707	Biaz	819	ulic	906	comp
026	Acro	scap	0898	bico	209	subu	295	Font	387	Lept	484	subu	570	Sema	708	Biaz	820	ulic	907	comp
027	Acro	scap	0899	bico	210	subu	296	Font	388	Lept	485	subu	571	Sema	709	Biaz	821	ulic	908	comp
028	Acro	scap	0900	bico	211	subu	297	Font	389	Lept	486	subu	572	Sema	710	Biaz	822	ulic	909	comp
029	Acro	scap	0901	bico	212	subu	298	Font	390	Lept	487	subu	573	Sema	711	Biaz	823	ulic	910	comp
030	Acro	scap	0902	bico	213	subu	299	Font	391	Lept	488	subu	574	Sema	712	Biaz	824	ulic	911	comp
031	Acro	scap	0903	bico	214	subu	300	Font	392	Lept	489	subu	575	Sema	713	Biaz	825	ulic	912	comp
032	Acro	scap	0904	bico	215	subu	301	Font	393	Lept	490	subu	576	Sema	714	Biaz	826	ulic	913	comp
033	Acro	scap	0905	bico	216	subu	302	Font	394	Lept	491	subu	577	Sema	715	Biaz	827	ulic	914	comp
034	Acro	scap	0906	bico	217	subu	303	Font	395	Lept	492	subu	578	Sema	716	Biaz	828	ulic	915	comp
035	Acro	scap	0907	bico	218	subu	304	Font	396	Lept	493	subu	579	Sema	717	Biaz	829	ulic	916	comp
036	Acro	scap	0908	bico	219	subu	305	Font	397	Lept	494	subu	580	Sema	718	Biaz	830	ulic	917	comp
037	Acro	scap	0909	bico	220	subu	306	Font	398	Lept	495	subu	581	Sema	719	Biaz	831	ulic	918	comp
038	Acro	scap	0910	bico	221	subu	307	Font	399	Lept	496	subu	582	Sema	720	Biaz	832	ulic	919	comp
039	Acro	scap	0911	bico	222	subu	308	Font	400	Lept	497	subu	583	Sema	721	Biaz	833	ulic	920	comp
040	Acro	scap	0912	bico	223	subu	309	Font	401	Lept	498	subu	584	Sema	722	Biaz	834	ulic	921	comp
041	Acro	scap	0913	bico	224	subu	310	Font	402	Lept	499	subu	585	Sema	723	Biaz	835	ulic	922	comp
042	Acro	scap	0914	bico	225	subu	311	Font	403	Lept	500	subu	586	Sema	724	Biaz	836	ulic	923	comp
043	Acro	scap	0915	bico	226	subu	312	Font	404	Lept	501	subu	587	Sema	725	Biaz	837	ulic	924	comp
044	Acro	scap	0916	bico	227	subu	313	Font	405	Lept	502	subu	588	Sema	726	Biaz	838	ulic	925	comp
045	Acro	scap	0917	bico	228	subu	314	Font	406	Lept	503	subu	589	Sema	727	Biaz	839	ulic	926	comp
046	Acro	scap	0918	bico	229	subu	315	Font	407	Lept	504	subu	590	Sema	728	Biaz	840	ulic	927	comp
047	Acro	scap	0919	bico	230	subu	316	Font	408	Lept	505	subu	591	Sema	729	Biaz	841	ulic	928	comp
048	Acro	scap	0920	bico	231	subu	317	Font	409	Lept	506	subu	592	Sema	730	Biaz	842	ulic	929	comp
049	Acro	scap	0921	bico	232	subu	318	Font	410	Lept	507	subu	593	Sema	731	Biaz	843	ulic	930	comp
050	Acro	scap	0922	bico	233	subu	319	Font	411	Lept	508	subu	594	Sema	732	Biaz	844	ulic	931	comp
051	Acro	scap	0923	bico	234	subu	320	Font	412	Lept	509	subu	595	Sema	733	Biaz	845	ulic	932	comp
052	Acro	scap	0924	bico	235	subu	321	Font	413	Lept	510	subu	596	Sema	734	Biaz	846	ulic	933	comp
053	Acro	scap	0925	bico	236	subu	322	Font	414	Lept	511	subu	597	Sema	735	Biaz	847	ulic	934	comp
054	Acro	scap	0926	bico	237	subu	323	Font	415	Lept	512	subu	598	Sema	736	Biaz	848	ulic	935	comp
055	Acro	scap	0927	bico	238	subu	324	Font	416	Lept	513	subu	599	Sema	737	Biaz	849	ulic	936	comp
056	Acro	scap	0928	bico	239	subu	325	Font	417	Lept	514	subu	600	Sema	738	Biaz	850	ulic	937	comp
057	Acro	scap	0929	bico	240	subu	326	Font	418	Lept	515	subu	601	Sema	739	Biaz	851	ulic	938	comp
058	Acro	scap	0930	bico	241	subu	327	Font	419	Lept	516	subu	602	Sema	740	Biaz	852	ulic	939	comp
059	Acro	scap	0931	bico	242	subu	328	Font	420	Lept	517	subu	603	Sema	741	Biaz	853	ulic	940	comp
060	Acro	scap	0932	bico	243	subu	329	Font	421	Lept	518	subu	604	Sema	742	Biaz	854	ulic	941	comp
061	Acro	scap	0933	bico	244	subu	330	Font	422	Lept	519	subu	605	Sema	743	Biaz	855	ulic	942	comp
062	Acro	scap	0934	bico	245	subu	331	Font	423	Lept	520	subu	606	Sema	744	Biaz	856	ulic	943	comp
063	Acro	scap	0935	bico	246	subu	332	Font	424	Lept	521	subu	607	Sema	745	Biaz	857	ulic	944	comp
064	Acro	scap	0936	bico	247	subu	333	Font	425	Lept	522	subu	608	Sema	746	Biaz	858	ulic	945	comp
065	Acro	scap	0937	bico	248	subu	334	Font	426	Lept	523	subu	609	Sema	747	Biaz	859	ulic	946	comp
066	Acro	scap	0938	bico	249	subu	335	Font	427	Lept	524	subu	610	Sema	748	Biaz	860	ulic	947	comp
067	Acro	scap	0939	bico	250	subu	336	Font	428	Lept	525	subu	611	Sema	749	Biaz	861	ulic	948	comp
068	Acro	scap	0940	bico	251	subu	337	Font	429	Lept	526	subu	612	Sema	750	Biaz	862	ulic	949	comp
069	Acro	scap	0941	bico	252	subu	338	Font	430	Lept	527	subu	613	Sema	751	Biaz	863	ulic	950	comp
070	Acro	scap	0942	bico	253	subu	339	Font	431	Lept	528	subu	614	Sema	752	Biaz	864	ulic	951	comp
071	Acro	scap	0943	bico	254	subu	340	Font	432	Lept	529	subu	615	Sema	753	Biaz	865	ulic	952	comp
072	Acro	scap	0944	bico	255	subu	341	Font	433	Lept	530	subu	616	Sema	754	Biaz	866	ulic	953	comp
073	Acro	scap	0945	bico	256	subu	342	Font	434	Lept	531	subu	617	Sema	755	Biaz	867	ulic	954	comp
074	Acro	scap	0946	bico	257	subu	343	Font	435	Lept	532	subu	618	Sema	756	Biaz	868	ulic	955	comp
075	Acro	scap	0947	bico	258	subu	344	Font	436	Lept	533	subu	619	Sema	757	Biaz	869	ulic	956	comp
076	Acro	scap	0948	bico	259	subu	345	Font	437	Lept	534	subu	620	Sema	758	Biaz	870	ulic	957	comp
077	Acro	scap	0949	bico	260	subu	346	Font	438	Lept	535	subu	621	Sema	759</					

ANIMAL RECORD	REGN. LMA	DIVN. NOT	AREA	SITE B115
SITE NAME Kibworth Cutting	RECORDER B. Coulton	LANDFORM 1 2 3 4 5 6 7 8 9 10		DATE 21.5.79
COUNTY Leicestershire	WEATHER a.m. quite calm and sunny, but with a lot of cloud and slight cooling breeze. p.m. clouding over to give dull weather with frequent drizzle & much stronger wind.			TIME 1045 → 1615

HABITAT APPRAISAL

A	B	%	MGT.	DESCRIPTION	ROW	ANIMAL	fh	fc	r
0	5	20	700	Mainly coarse grass cutting with a good variety of food spp. for seed - daisies and grasses. There is much low overhanging Hawthorn and Bramble briar especially near the tall hedges and these provide shelter and cover in a rather open, arable landscape. Not an outstanding site but in the local context it has considerable value as a refuge and provider of other-wise rare spp for food.	1	Bird (small)	3	3	3
1	1	10	700		2	Bird (large)	2	2	2
1	6	60	700		3	Mamm. (small)	3	2	2
6	4	10	700		4	Mamm. (large)	2	1	1
					5	Other Vert.	.	1	1
					6	Lepidoptera	3	.	2
					7	Other Insect	3	3	3
					8	Other Invert	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	CODE	ORD.	INVERTS.
Green Woodpecker	3380	1	Rabbit	5	Small White Cinnabar moth <u>Diplolepis rosae</u> Tipulid fly Oil beetle larvae Verm.: Gastropoda.	
Cuckoo	3040	1				
Robin	4000	1				
Blackbird	4240	2				
Tree Sparrow	5280	4				
Wood Pigeon	2990	2				
Carrier Crow	3681	2				
Maggie	3720	1				
Sparrow	3610	2				
Sylark	3570	2				
cont. over			cont. over			
cont. over			cont. over		cont. over	
					ASSOC. BR	
cont. over			cont. over		cont. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME **Desford Tubes Sidings**

Map Ref **SK495043** Data bank ref

NCC Region **East Midlands**

County **Leicestershire**

Internal ref **B118**

STATUS

Part of	Adjacent to	NNR	PNR	LNR	SSSI	
---------	-------------	-----	-----	-----	------	--

County Flora site. State ref -

Local Information site. State source - **R. Parslow, N.C.C., R.S.A.**

Discovery etc. (Describe) -

INTEREST

Plants	General	Local	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - **Very good cinder flats of varying degrees of colonisation**
) **Also some marshy ground.**
Geological)

RAILWAY REGION **LMR**

DIVISION **Nottingham**

AREA -

Address of Area Civil Engrs Office **G. Law (D.C.E.)**

Telephone number

Kulong Ho.
Queen's Drive

NOTTINGHAM

Tel. No. 0602 48531 extn. 2369.

Name of railway line **Leicester → Burton-upon-Trent (via Coalville)**

Access at **Path from Tube Investments car park at SK495042** Mileage post **104 1/4**

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
22nd May 1979	Dr. C.M. Sargent, B. Corlett & J.O. Mountford	An example of a habitat type almost unique to B.R., and a good one too with considerable variety of vegetation and a number of local spp., though most of them are alien. A large site with a good sp-list which was incompletely surveyed due to poor weather. The rough ground and variety of fauna make this a valuable site in area of urban fringe industry and arable agriculture. * Recommend further visit to complete vascular plant list & tackle other groups. Should be monitored for further arrival and notified to IBR as a site of value, so that if it is sold off, conservation is considered.

FILE OPENED BY

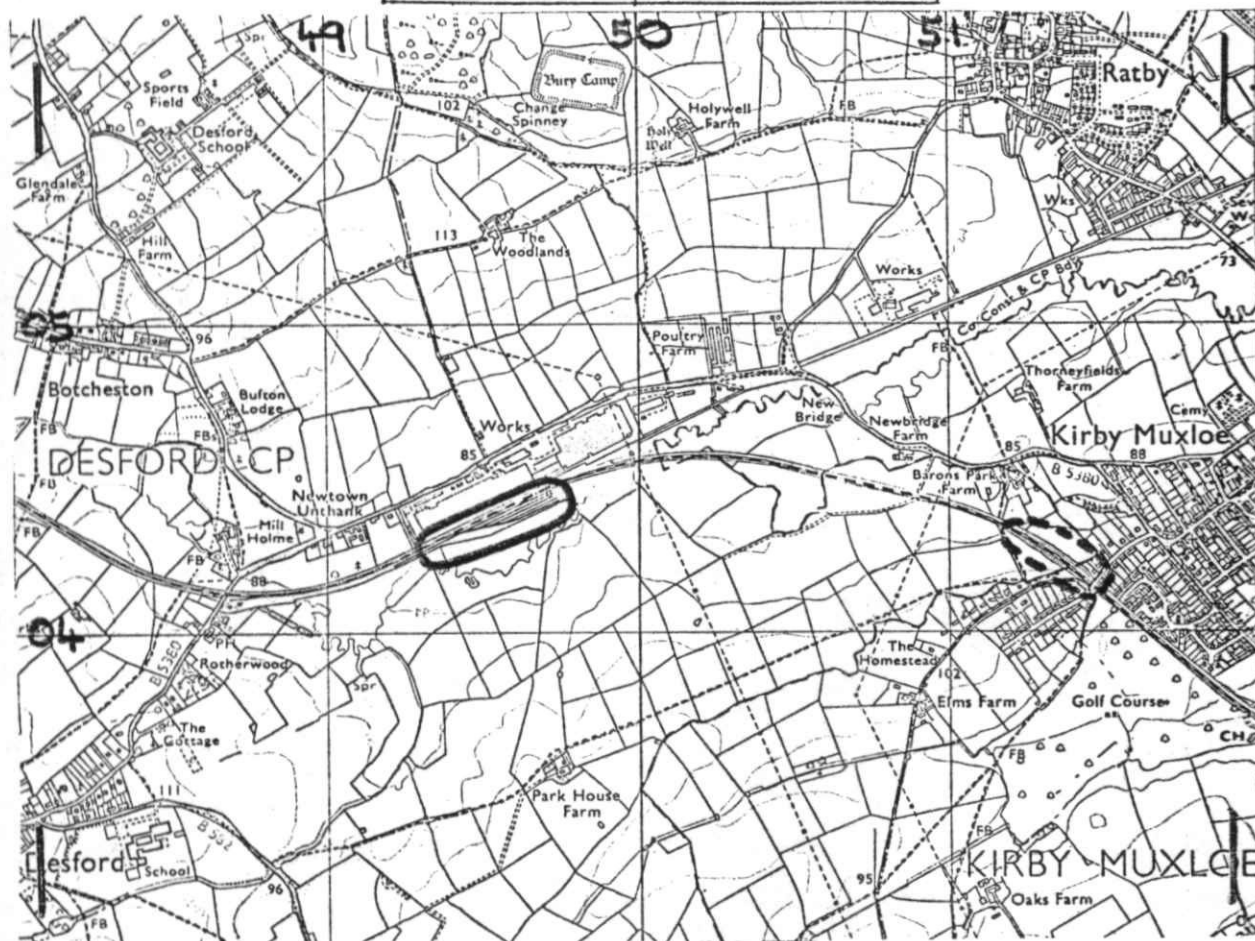
ITE, Mark Wood

DATE

4th Jan. 1980

LOCATION STATUS

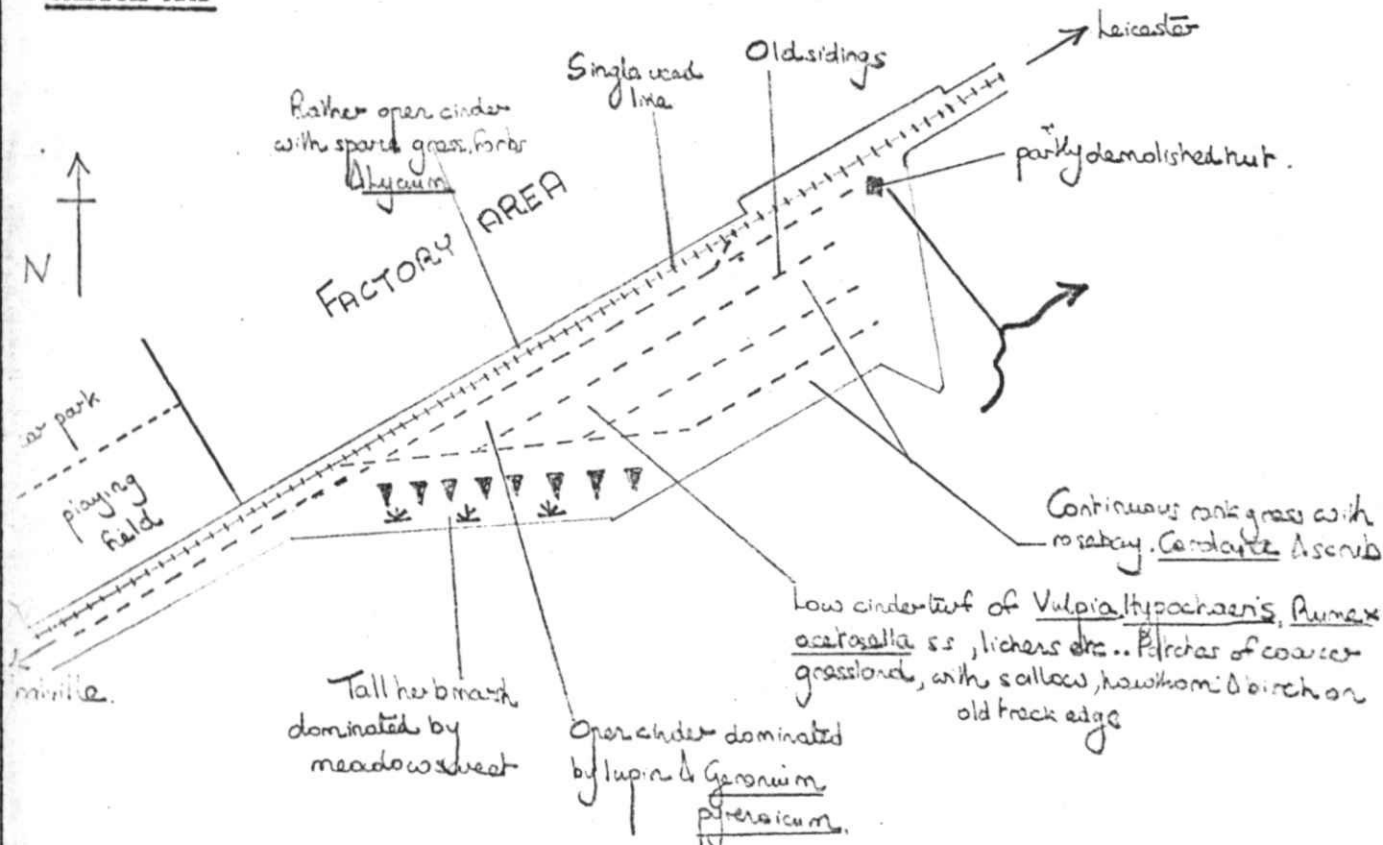
<u>Accurate</u>	Approximate
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○ = B118

○ = R141 Δ B117

SKETCH MAP



Continue overleaf

Altitude 260' → 275'Local Geology Alluvium over Triassic Keuper Marl; some glacial sand and gravel to NWNeighbouring landuses Factory & playing field plus arable agriculture.

DIRECTION FROM ACCESS

N	<u>E</u>	W	S	E	W	or	BOTH
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Dist from * access point	<u>0 →</u> <u>500m</u>	<u>0 →</u> <u>100m</u>	<u>100m →</u> <u>400m</u>	<u>100m →</u> <u>600m</u>	<u>100 →</u> <u>200m</u>	<u>100 →</u> <u>250m</u>		
Side of track °	<u>N</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>		
Landform x	<u>Flat</u>	<u>Flat</u>	<u>Flat</u>	<u>Flat</u>	<u>Emb.</u>	<u>Flat</u>		
Aspect-degrees	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>190°</u>	<u>-</u>		
Width-metres	<u>5m.</u>	<u>15m</u>	<u>50m+</u>	<u>75m</u>	<u>5m</u>	<u>25m</u>		
Disturbance +	<u>S.Cind.</u>	<u>S.Cind.</u>	<u>S.Cind.</u>	<u>S.Cind.</u>	<u>-</u>	<u>-</u>		

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

The composition of the various cinder communities. Occurrence of several local spp including Euphorbia waltonii s.l., Sorbus intermedia s.s., Lycium barbarum & Geranium pyrenaicum.

General vegn characteristics and habitat description indicate side of track

Large expanses of old sidings where the rails have been removed to give a rather uneven surface with occasional sleepers still remaining. The main vegetation cover over most of the site is a low rather calcifuge turf rich in lichens with Vulpia bromoides, Hypochaeris radicata, Rumex acetosella s.s. the most important spp.. There are locally patches of coarser grassland, and more herb or species-rich parts where the cinder is more disturbed at the edge of the old track bed. Euphorbia waltonii grows here and among the low bushes of willow, hawthorn & birch which are colonising Sorbus intermedia s.s. is occasional [column 3]. The more western part has a peculiar variant of this vegetation with Lupinus polyphyllus and Geranium pyrenaicum the main contributors to the cover, and rather less scrub colonisation [column 2]. As one gets further from the used line and also further east the vegetation cover becomes both coarser and more continuous with little bare cinder. Arrhenatherum, couch, Calamagrostis and Holcus dominate with Doctylis and large populations of rosbay and Cordaria. Particularly in the far S.E. the thorn scrub is denser and more extensive [column 4]. The sidings also is slightly raised above the land to the south and the embankment here bears a similar coarse grassland type to that found on less disturbed parts elsewhere i.e. latter group [column 5]. The low-lying area between the bank and the fence is poorly drained and covered in a tall herb marsh where meadowweet is the main species and there is some willow colonisation [column 6]. Finally there is a poor rather open strip of cinder flat along the N. side of the used line with an impoverished & more disturbed variant of the vegetation to the S.; Lycium is common [column 1].

PREFERRED MANAGEMENT

Reversed dumping / disturbance coupled to grazing of grassland to maintain the low open cinder flat which is most important here

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None recently.

John 22.5.79

SIDE OF TRACK	N	E	W	S	E	W
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DATE 22.5.79 RECORDER Cmsargent/30 Mountford

CRASSES	Additional Species	CODE	NAME
20 Agropy	<i>Euphorbia urol</i> s.l.	769	
35 Agros	<i>Lupinus polyphyllus</i>	1199	
40	<i>Lupinus barbatum</i>	1212	
41 Aiza	<i>Stena X intermedia</i>	1260	
42 Alope	<i>Mypsois sylvatica</i>	1325	
44	<i>Rumex acet. s.s.</i>	1736	
45	<i>Salix cin. ole.</i>	1786	
46 Aniho	<i>Hieracium sp.</i>	1828	
47 ARR1E	<i>Sorbus intermedia</i>	1966	s.s.
220 Avena			
249 Brach			
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256 Briza			
261 Bromu			
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RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Fenny Compton

Map Ref SP.43.52 . Data bank ref

NCC Region West Midland

County Warwickshire

Internal ref B119

STATUS

Part of	Adjacent to	NMR	PNNR	INR	SSSI	
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County Flora site. State ref -

Local Information site. State source - M.J.D'Oyly - A.R.O., N.C.C.

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	<u>Birds</u>	Mammals	

Habitat) describe - Calcareous grassland, damp and dry. Scrub and old
)
Geological) track bed.

RAILWAY REGION LMA DIVISION Birmingham AREA -

Address of Area Civil Engrs Office E.R. Newers (D.C.E.)

Telephone number

Station Ho.

10 Holliday St.

BIRMINGHAM

Tel. No. 021. 643. 4444 extn. 2613

Name of railway line Oxford -> Birmingham

Access at A423 bridge over at SP435522

Mileage post 94 -> 94 1/2

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

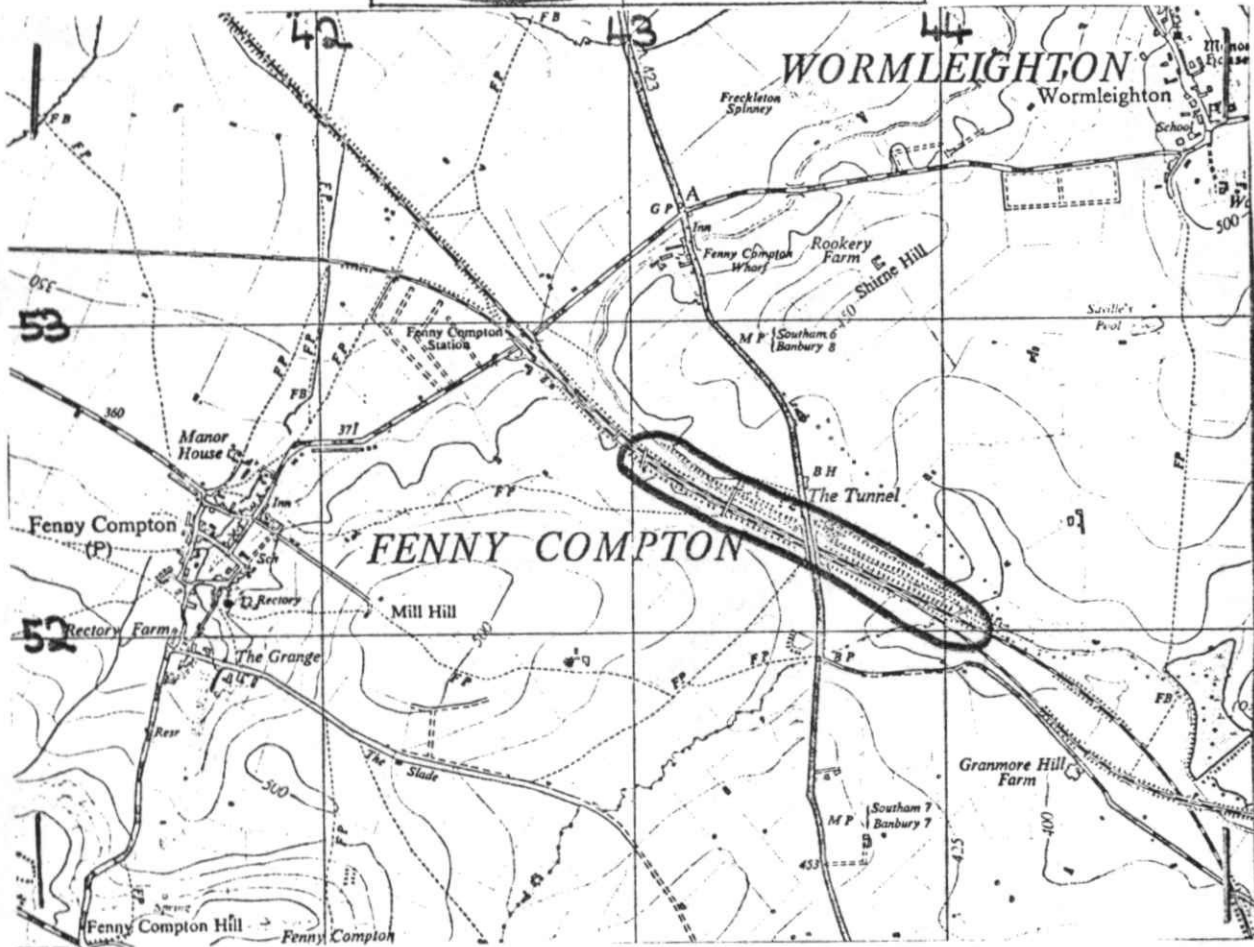
Date	By whom	Assessment/Action
<u>23rd May 1979</u>	<u>Dr. C.M. Sargent, B. Carleton and J.O. Mountford</u>	<u>A fine site in terms of its large size and variety of semi-natural vegetation in a mainly arable region. Takes in part close to canal cutting and BR also has a large area of abandoned line. There is thus considerable variety in soil topography. Notified as a site for birds and is obviously supporting good populations of the commoner types.</u> <u>* Though with insufficient of note to justify scheduling, this site is rich enough and of a worthwhile size to make a notable contribution to the fauna and flora. Would recommend that it be notified to B.R. and some agreement on monitoring/management made. Continue overleaf</u>

FILE OPENED BY ITE, Monks Wood

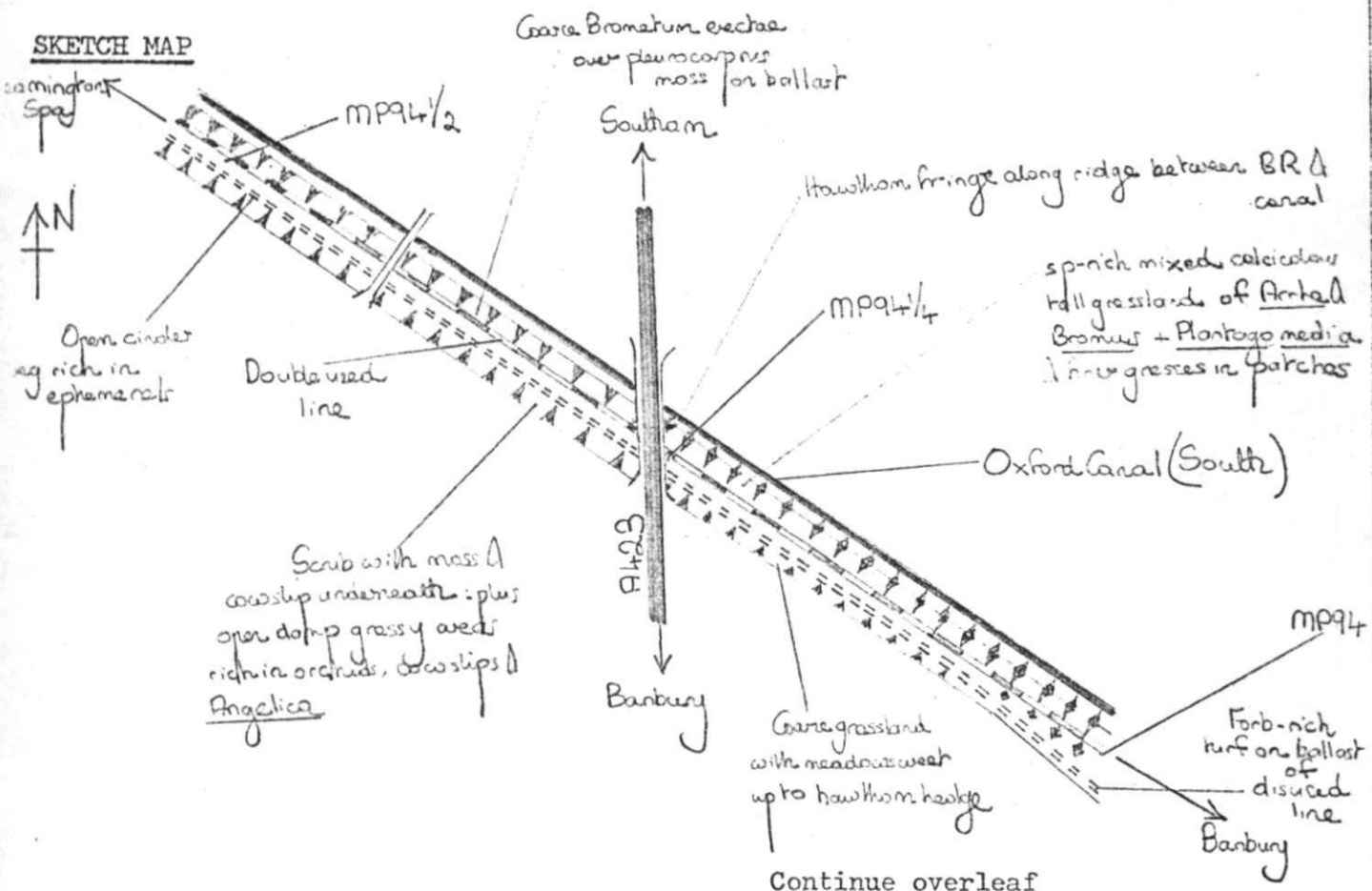
DATE 4th Jan. 1980

LOCATION STATUS

Accurate	Approximate
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SKETCH MAP



Altitude 390 → 420

Local Geology Jurassic Lower Lias Clay

Neighbouring landuses Canal and arable agriculture

DIRECTION FROM ACCESS

N	E	W	S	E	W
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 or BOTH

Dist from * access point	NW 500 → SE 400	SE 400 → 500m	SE. 0 → 400m	NW. 0 → 500m	NW. 500 → SE 500	NW. 500 → SE 500	NW. 500 → SE 500
Side of track °	SW.	SW.	SW.	SW	NE	NE.	NE
Landform x	Old line	Old line	Cut.	Cut.	Cut.	Cut	Cut.
Aspect-degrees	—	—	40°	40°	220°	220°	220°
Width-metres	5m.	5m.	10m.	→15m.	4m	10m	4m
Disturbance +	S.Cind.	Mo Ball	—	—	Mo Ball	Gone	—

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

Flushed grassland in open areas on SW. side of line with large orchid populations. Cinder flats with good population of Carostium diffusum. Scrub associated with canal as bird cover.

General vegn characteristics and habitat description indicate side of track

Line runs in cutting parallel to canal cutting, the fence being in disrepair between them along the top of a sharp ridge which is a sheltering cone of rather open heath scrub which may be the descendant of a hedge. It is especially thick and extensive on the SW side [column 7]. This is the point where the old Towcaste to Stratford-upon-Avon line was parallel to the SW side of the FW. It is mainly covered in cinder flats which are colonized by open life grassland with ephemerals e.g. Carostium diffusum. There are also tall herb stands e.g. rosebay and campion [column 1]. As it diverges from the used line near MP94, there is present a continuous grassland which is herb-rich, rank at the edges but short and very rich in clover in the middle. There is here a little scrub colonisation [column 2]. The cutting slope on the SW side is generally more scrubby and damper. SE. from the AP there is a coarse grassland of couch, foxtail, cocksfoot, Arrhenatherum and Deschampsia with abundant meadowweet. This gives way near the top to low-lying scrub derived from marginal hedge. [column 3]. Further NW. beyond the AP bridge the scrub becomes denser and continuous over much of the slope with a ground cover of pleurocarpous mosses and cowslips. In the occasional open areas a damp flushed grassland with rushes, orchids, angelica, Cirsium palustre and cowslip has developed [column 4]. The NE side the lower edge where there has been calcareous ballast dumping has produced a species-poor Bromus eternus over Brachythecium nitabulum. [column 5]. About Arrhenatherum becomes co-dominant in a very spongy herb-rich tall grassland with ground patches rich in ferns and other calcicolous herbs especially Compositae & Leguminosae [column 6].

PREFERRED MANAGEMENT

Some thinning of scrub and growing/mowing of calcicolous grassland.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None bar ballasting.

Jon 23.5.79.

ANIMAL RECORD

REGN.

DIVN.

AREA

SITE

LMA

BIA

B119

SITE NAME

Fenny Compton

RECORDER

B. Carleton

LANDFORM

1 2 3 4 5 6 7 8 9 10

DATE

23.5.79

COUNTY

Warwickshire

WEATHER Some showers early but brightening to become sunny and quite warm with slight breeze

TIME

1330 → 1500

HABITAT APPRAISAL

A	B	%	MGT.	DESCRIPTION	ROW	ANIMAL	fh	fc	r
0	5	35	700	Wide but rather low cutting by canal with associated dispersed trees. Good mix of scrub & grassland types in a sheltered place in open brook ground. There is good flora (13 spp) with resultant diversity of food for invertebrates. Cowbirds abundant, and nesting frequent. Association with canal further aids worth to birds. In area probably one of the richer animal localities especially for small birds.	1	Bird (small)	4	4	4
1	1	20	700		2	Bird (large)	3	3	2
1	6	25	703		3	Mamm. (small)	4	3	3
2	2	5	700		4	Mamm. (large)	3	2	2
6	5	15	703		5	Other Vert.	.	3	2
					6	Lepidoptera	3	.	3
					7	Other Insect	4	4	4
					8	Other Invert	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	CODE	ORD.	INVERTS.
Chaffinch	5550	2	Rabbit		4	Large White
Goldfinch	5350	1				7-spot ladybird
Woodpigeon	2990	2				Lasius sp. & Hille
House Martin	2640	4				Cercopis vulnerata
Swift	3270	2				Tipula fly
Robin	4000	1				Orthocentrus com.
Willow Warbler	4720	1				
Wanton Crow	3681	2				
House Sparrow	5250	2				
cont. over			cont. over			
cont. over			cont. over			ASSOC. BR
cont. over			cont. over			cont. over

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Harbury Cutting

Map Ref SP38.60. Data bank ref

NCC Region West Midlands

County Warwickshire

Internal ref B120

STATUS

<u>Part of</u>	Adjacent to	NNR	PNNR	LN	<u>SSSI</u>	
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County Flora site. State ref -

Local Information site. State source - M.J.D'Oyley - A.R.O., N.C.C.

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	<u>Insects</u>	Reptiles	Birds	Mammals	

Habitat) describe - Partly wooded cutting with floristically rich calcareous grassland. Disturbed ground and colonized spoil heaps.
 Geological)

RAILWAY REGION LMA

DIVISION Birmingham

AREA -

Address of Area Civil Engrs Office E.R. News (D.C.E.)

Telephone number

Station Ho.
10 Holliday St.
BIRMINGHAM

Tel. No. 021-643 4444 extn. 2613.

Name of railway line Oxford -> Birmingham

Access at B4451 bridge over at SP389596

Mileage post 100 -> 100 1/2

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
<u>23rd May 1979</u>	<u>Dr. C.M. Sargent, B.M. Carleton & J.O. Mountford.</u>	<u>Excellent and extensive site fully deserving its SSSI status both in BR & local context. The railway line here provides woodland, scrub and grassland with a very long plant list in a gently undulating landscape of arable & reseeded pasture. The site was only examined to the B4451 bridge near MP 100 1/2. Recommend further detailed survey to the west end of the site near lower Westfields Farm. Though this is exceptionally good in terms of diversity & richness, the site has no great rarities. It probably would be worthwhile to examine cuttings on similar formations nearby to discover other possible SSSI's.</u>

FILE OPENED BY ITE Monks Wood

DATE 7th Jan. 1980

SITE NAME Harbury Cutting

CDB ref

(Section 3)
Internal ref B120Altitude 310' → 400'Local Geology Mainly Jurassic lower lias on B120, some Triassic Keuper Marl to W.Neighbouring landuses Agriculture - arable & new-sown lys.

DIRECTION FROM ACCESS

<u>(N)</u>	E	<u>(W)</u>	S	E	W	or	<u>BOTH</u>
------------	---	------------	---	---	---	----	-------------

Dist from * access point	<u>300 →</u> <u>800m</u>	<u>100 →</u> <u>200m</u>	<u>300 →</u> <u>800m</u>	<u>200 →</u> <u>500m</u>	<u>800 →</u> <u>900m</u>	<u>450m</u> <u>→ 1000m</u>	<u>800 →</u> <u>1300m</u>
Side of track °	<u>N</u>	<u>N</u>	<u>N</u>	<u>S.</u>	<u>N</u>	<u>S</u>	<u>both</u>
Landform x	<u>Flat</u>	<u>Cut.</u>	<u>Cut.</u>	<u>Flat</u>	<u>Cut.</u>	<u>Cut/Flat</u>	<u>Cuts.</u>
Aspect-degrees	<u>—</u>	<u>200°</u>	<u>200°</u>	<u>—</u>	<u>200°</u>	<u>20°</u>	<u>200°/20°</u>
Width-metres	<u>4m.</u>	<u>20m</u>	<u>→ 100m</u>	<u>150m.</u>	<u>20m.</u>	<u>→ 150m.</u>	<u>2x100m</u>
Disturbance †	<u>Mo. Ball</u>	<u>—</u>	<u>Grass etc.</u>	<u>Grass etc.</u>	<u>—</u>	<u>—</u>	<u>—</u>

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- † Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Floristically rich calcareous grassland with *Luula conyzae*, *Cirsium eriophorum*, *Cirsium acule*, *Carlina*, *Saxifraga granulata* etc. Mature woodland with *Populus X gileadensis*. Several aliens common in parts. Over 160 spp. of flowering plants.

General vegn characteristics and habitat description indicate side of track

The cutting is large and often striped with associated flats of colonized spoil heaps. Along the north side is a narrow ballast flat by the line of forb-rich mixed calcicolous grassland with *Helictotrichon pubescens* plus *Saxifraga granulata*, *Polygonum*, *Lotus* & *Anthyllis* [column 1]. The northern slope near the old station was covered in vegetation derived from gardens with large beds of *Lactuca* (probably *L. odoratus*) and *Hypochaeris glabra* with plum, lilac etc common, and apples and pears and plums [column 2]. The eastern half of the cutting is generally less wooded. There are areas of coarse *Brometum* wetland, and large expanses of mixed herb- & species-rich calcicolous grassland with orchids, *Viola hirta*, cowslip, *Polygonum*, *Agrimonia*, *Carex flacca* etc and a lot of low pleurocarpous mosses. The best turf is found on the old spoil heaps on the S. side [column 4] where abundant low scattered bushes occur and locally near the abandoned lime-kilns around MP100 1/4 on the north side where the scrub is less frequent but older and denser [column 3]. Above the scrub on the same side (N.) is an area of damp mossy grassland with *Hieracium* and *Centaurium* common [column 5]. The upper edges of the north slope, the bulk of the South and the W. part of the spoil-heaps flat like tall impenetrable Hawthorn scrub with little ground cover [column 6]. Further west toward the low tunnel under the B4452 the banks steeper and become more irregular with runnels and land-slips, and a generally damp ground. Here tall secondary woodland of ash, gear and balsam of gilead occurs with alder and birch also locally important. There is little scrub except suckers of the component trees and elder. The ground cover is ivy or *Galium*, with much bare soil and clumps of fern and moss. Some stony thickets occur near the road [column 7].

PREFERRED MANAGEMENT

Scrub clearing is needed on the grassland areas and some of the most monotonous Hawthorn could be profitably opened up.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

There are charred timber and little litter over a lot of grassland area possibly indicative of a fire in 1977

Tom 23.5.79

Continue overleaf

Additional Species
NAME
CODE

001	Acro cord	0874	virg	185	rufe	269	osmu	363	myur	460	Pleu acum	546	pauc	681	Adel	790	Leio	883	lacr
002	Acro cord	0875	argr	186	schr	272	rufu	364	stri	461	subu	547	pusi	682	Anas orca	791	bant	884	plann
003	Acro cord	0876	lana	187	subu	274	taxi	365	piri	462	Pleu aqua	548	recu	683	Anas doni	794	turb	885	plat
004	Acro cord	0877	bico	188	vari	275	virg	366	Lept	463	Pleu schr	549	trif	684	Anth julia	796	Leje	886	thuj
005	Acro cord	0878	caes	189	Font	276	anti	367	ripi	464	Pleu schr	551	Sema	685	Anth huan	797	Lama	887	quadr
006	Acro cord	0879	cana	190	anti	276	anti	368	Lept	465	Pleu acum	554	Spha	686	azor	801	lacr	888	cili
007	Acro cord	0880	capri	191	anti	276	anti	369	Lept	466	annot	554	Spha	690	azor	801	lacr	889	pulc
008	Acro cord	0881	doni	192	anti	276	anti	370	Lept	466	annot	555	comp	691	Apha	801	lacr	890	comp
009	Acro cord	0882	eryst	193	anti	276	anti	371	Lept	466	annot	555	comp	692	Barb	803	lacr	891	comp
010	Acro cord	0883	incl	194	anti	276	anti	372	Lept	466	annot	556	comp	693	Barb	804	lacr	892	comp
011	Acro cord	0884	incl	195	anti	276	anti	373	Lept	466	annot	556	comp	694	Barb	805	lacr	893	comp
012	Acro cord	0885	incl	196	anti	276	anti	374	Lept	466	annot	557	comp	695	Barb	806	lacr	894	comp
013	Acro cord	0886	incl	197	anti	276	anti	375	Lept	466	annot	558	comp	696	Barb	807	lacr	895	comp
014	Acro cord	0887	incl	198	anti	276	anti	376	Lept	466	annot	559	comp	697	Barb	808	lacr	896	comp
015	Acro cord	0888	incl	199	anti	276	anti	377	Lept	466	annot	560	comp	698	Barb	809	lacr	897	comp
016	Acro cord	0889	incl	200	anti	276	anti	378	Lept	466	annot	561	comp	699	Barb	810	lacr	898	comp
017	Acro cord	0890	incl	201	anti	276	anti	379	Lept	466	annot	562	comp	700	Bazz	811	lacr	899	comp
018	Acro cord	0891	incl	202	anti	276	anti	380	Lept	466	annot	563	comp	701	Bazz	812	lacr	900	comp
019	Acro cord	0892	incl	203	anti	276	anti	381	Lept	466	annot	564	comp	702	Bazz	813	lacr	901	comp
020	Acro cord	0893	incl	204	anti	276	anti	382	Lept	466	annot	565	comp	703	Bazz	814	lacr	902	comp
021	Acro cord	0894	incl	205	anti	276	anti	383	Lept	466	annot	566	comp	704	Bazz	815	lacr	903	comp
022	Acro cord	0895	incl	206	anti	276	anti	384	Lept	466	annot	567	comp	705	Bazz	816	lacr	904	comp
023	Acro cord	0896	incl	207	anti	276	anti	385	Lept	466	annot	568	comp	706	Bazz	817	lacr	905	comp
024	Acro cord	0897	incl	208	anti	276	anti	386	Lept	466	annot	569	comp	707	Bazz	818	lacr	906	comp
025	Acro cord	0898	incl	209	anti	276	anti	387	Lept	466	annot	570	comp	708	Bazz	819	lacr	907	comp
026	Acro cord	0899	incl	210	anti	276	anti	388	Lept	466	annot	571	comp	709	Bazz	820	lacr	908	comp
027	Acro cord	0900	incl	211	anti	276	anti	389	Lept	466	annot	572	comp	710	Bazz	821	lacr	909	comp
028	Acro cord	0901	incl	212	anti	276	anti	390	Lept	466	annot	573	comp	711	Bazz	822	lacr	910	comp
029	Acro cord	0902	incl	213	anti	276	anti	391	Lept	466	annot	574	comp	712	Bazz	823	lacr	911	comp
030	Acro cord	0903	incl	214	anti	276	anti	392	Lept	466	annot	575	comp	713	Bazz	824	lacr	912	comp
031	Acro cord	0904	incl	215	anti	276	anti	393	Lept	466	annot	576	comp	714	Bazz	825	lacr	913	comp
032	Acro cord	0905	incl	216	anti	276	anti	394	Lept	466	annot	577	comp	715	Bazz	826	lacr	914	comp
033	Acro cord	0906	incl	217	anti	276	anti	395	Lept	466	annot	578	comp	716	Bazz	827	lacr	915	comp
034	Acro cord	0907	incl	218	anti	276	anti	396	Lept	466	annot	579	comp	717	Bazz	828	lacr	916	comp
035	Acro cord	0908	incl	219	anti	276	anti	397	Lept	466	annot	580	comp	718	Bazz	829	lacr	917	comp
036	Acro cord	0909	incl	220	anti	276	anti	398	Lept	466	annot	581	comp	719	Bazz	830	lacr	918	comp
037	Acro cord	0910	incl	221	anti	276	anti	399	Lept	466	annot	582	comp	720	Bazz	831	lacr	919	comp
038	Acro cord	0911	incl	222	anti	276	anti	400	Lept	466	annot	583	comp	721	Bazz	832	lacr	920	comp
039	Acro cord	0912	incl	223	anti	276	anti	401	Lept	466	annot	584	comp	722	Bazz	833	lacr	921	comp
040	Acro cord	0913	incl	224	anti	276	anti	402	Lept	466	annot	585	comp	723	Bazz	834	lacr	922	comp
041	Acro cord	0914	incl	225	anti	276	anti	403	Lept	466	annot	586	comp	724	Bazz	835	lacr	923	comp
042	Acro cord	0915	incl	226	anti	276	anti	404	Lept	466	annot	587	comp	725	Bazz	836	lacr	924	comp
043	Acro cord	0916	incl	227	anti	276	anti	405	Lept	466	annot	588	comp	726	Bazz	837	lacr	925	comp
044	Acro cord	0917	incl	228	anti	276	anti	406	Lept	466	annot	589	comp	727	Bazz	838	lacr	926	comp
045	Acro cord	0918	incl	229	anti	276	anti	407	Lept	466	annot	590	comp	728	Bazz	839	lacr	927	comp
046	Acro cord	0919	incl	230	anti	276	anti	408	Lept	466	annot	591	comp	729	Bazz	840	lacr	928	comp
047	Acro cord	0920	incl	231	anti	276	anti	409	Lept	466	annot	592	comp	730	Bazz	841	lacr	929	comp
048	Acro cord	0921	incl	232	anti	276	anti	410	Lept	466	annot	593	comp	731	Bazz	842	lacr	930	comp
049	Acro cord	0922	incl	233	anti	276	anti	411	Lept	466	annot	594	comp	732	Bazz	843	lacr	931	comp
050	Acro cord	0923	incl	234	anti	276	anti	412	Lept	466	annot	595	comp	733	Bazz	844	lacr	932	comp
051	Acro cord	0924	incl	235	anti	276	anti	413	Lept	466	annot	596	comp	734	Bazz	845	lacr	933	comp
052	Acro cord	0925	incl	236	anti	276	anti	414	Lept	466	annot	597	comp	735	Bazz	846	lacr	934	comp
053	Acro cord	0926	incl	237	anti	276	anti	415	Lept	466	annot	598	comp	736	Bazz	847	lacr	935	comp
054	Acro cord	0927	incl	238	anti	276	anti	416	Lept	466	annot	599	comp	737	Bazz	848	lacr	936	comp
055	Acro cord	0928	incl	239	anti	276	anti	417	Lept	466	annot	600	comp	738	Bazz	849	lacr	937	comp
056	Acro cord	0929	incl	240	anti	276	anti	418	Lept	466	annot	601	comp	739	Bazz	850	lacr	938	comp
057	Acro cord	0930	incl	241	anti	276	anti	419	Lept	466	annot	602	comp	740	Bazz	851	lacr	939	comp
058	Acro cord	0931	incl	242	anti	276	anti	420	Lept	466	annot	603	comp	741	Bazz	852	lacr	940	comp
059	Acro cord	0932	incl	243	anti	276	anti	421	Lept	466	annot	604	comp	742	Bazz	853	lacr	941	comp
060	Acro cord	0933	incl	244	anti	276	anti	422	Lept	466	annot	605	comp	743	Bazz	854	lacr	942	comp
061	Acro cord	0934	incl	245	anti	276	anti	423	Lept	466	annot	606	comp	744	Bazz	855	lacr	943	comp
062	Acro cord	0935	incl	246	anti	276	anti	424	Lept	466	annot	607	comp	745	Bazz	856	lacr	944	comp
063	Acro cord	0936	incl	247	anti	276	anti	425	Lept	466	annot	608	comp	746	Bazz	857	lacr	945	comp
064	Acro cord	0937	incl	248	anti	276	anti	426	Lept	466	annot	609	comp	747	Bazz	858	lacr	946	comp
065	Acro cord	0938	incl	249	anti	276	anti	427	Lept	466	annot	610	comp	748	Bazz	859	lacr	947	comp
066	Acro cord	0939	incl	250	anti	276	anti	428	Lept	466	annot	611	comp	749	Bazz	860	lacr	948	comp
067	Acro cord	0940	incl	251	anti	276	anti	429	Lept	466	annot	612	comp	750	Bazz	861	lacr	949	comp
068	Acro cord	0941	incl	252	anti	276	anti	430	Lept	466	annot	613	comp	751	Bazz	862	lacr	950	comp
069	Acro cord	0942	incl	253	anti	276	anti	431	Lept	466	annot	614	comp	752	Bazz	863	lacr	951	comp
070	Acro cord	0943	incl	254	anti	276	anti	432	Lept	466	annot	615	comp	753	Bazz	864	lacr	952	comp
071	Acro cord	0944	incl	255	anti	276	anti	433	Lept	466	annot	616	comp	754	Bazz	865	lacr	953	comp
072	Acro cord	0945	incl	256	anti	276	anti	434	Lept	466	annot	617	comp	755	Bazz	866	lacr	954	comp
073	Acro cord	0946	incl	257	anti	276	anti	435	Lept	466	annot	618	comp	756	Bazz	867	lacr	955	comp
074	Acro cord	0947	incl	258	anti	276	anti	436	Lept	466	annot	619	comp	757	Bazz	868	lacr	956	comp
075	Acro cord	0948	incl	259	anti	276	anti	437	Lept	466	annot	620	comp	758	Bazz	869	lacr	957	comp
076	Acro cord	0949	incl	260	anti	276	anti	438	Lept	466	annot	621	comp	759	Bazz	870	lacr	958	comp
077	Acro cord	0950	incl	261	anti	276	anti	439	Lept	466	annot	622	comp	760	Bazz	871	lacr	959	comp
078	Acro cord	0951	incl	262	anti	276	anti	440	Lept	466	annot	623	comp	761	Bazz	872	lacr	960	comp
079	Acro cord	0952	incl	263	anti	276	anti	441	Lept	466	annot	624	comp	762	Bazz	873	lacr	961	comp
08																			

ORIGINAL RECORD
 REGD. LMR DIVR. AREA SITE
 BIR B120

SITE NAME Harbury Cutting
 RECORDER B.M. Carleton
 LANDFORM 1 2 3 4 5 6 7 8 9 10
 DATE 23.5.79

COUNTY Warwickshire
 WEATHER Warm and bright with generally sunny weather plus periods of closer duller weather threatening rain. A slight breeze.
 TIME 1530 → 1830.

HABITAT APPRAISAL

A	B	%	MGT.	DESCRIPTION	ROW	ANIMAL	fh	fc	r
0	0	30	700	Very varied vegetation and large site. Very long sp-hit and consequently good diversity of food sources. The site provides calcareous grassland, scrub and woodland in a poor agricultural area. Its extent and lack of disturbance mean that a wide variety of animals can occur. It is the main piece of wild vegetation in the immediate region and merits repay detailed ecological work.	1	Bird (small)	4	4	4
0	5	35	700		2	Bird (large)	4	3	3
1	1	20	712		3	Mamm. (small)	4	4	4
1	6	5	712		4	Mamm. (large)	3	3	3
4	8	2	703		5	Other Vert.	.	3	3
6	8	2	700		6	Lepidoptera	4	.	4
6	9	5	703		7	Other Insect	4	4	4
6	9	5	703		8	Other Invert	4	4	4

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	CODE	ORD.	INVERTS.
Robin	4000	3	Rabbit		4	Small White
Starling	5180	2	Reeves' Muntjac		1	<u>Diplolepis rosae</u>
Corvid Crow	3681	2				Cinnabar moth
Woodpigeon	2990	1				Lasius sp. Antills
House Sparrow	5250	2				Various:
Tree Sparrow	5280	1				Gastropoda
Chiffchaff	4730	1				Diptera
Yellowhammer	5580	1				Isopoda
Wren	3980	3				
Blackbird	4240	1				
Willow Warbler	4720	1				
Green Woodpecker	3380	1				
cont. over		✓	cont. over			
cont. over			cont. over			cont. over
						ASSOC. BR
cont. over			cont. over			cont. over

SPECIES LIST OF ANIMALS CONTINUED

BIRDS	CODE	ORD.	OTHER VERTS.	CODE	ORD.	INVERTS.
Turtle Dove Chaffinch	3000	1				
	5550	1				

CASUALTY LIST OF ANIMALS RECORDED ON BR

		(Baby) Rabbit		1	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Emscot Power Station

Map Ref SP297653 Data bank ref

NCC Region West Midlands

County Warwickshire

Internal ref 8121

STATUS

Part of	Adjacent to	NNR	PNNR	LNR	SSSI	
---------	-------------	-----	------	-----	------	--

County Flora site. State ref - Cadbury, D.A., Howkes, J.G. & Readett, R.C. 1971. A Computer-mapped Flora. [pp. 137, 148, 228]

Local Information site. State source - 2360237
M.J.D'Oyly - ARO, N.C.C.

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Grossland on and disturbed sea-sand. Tall willow
) scrub and rough thicket derived from garden spp.
Geological)

RAILWAY REGION LMA DIVISION Birmingham AREA -

Address of Area Civil Engrs Office E.R. Newens (D.C.E.)

Telephone number
Station House
10 Holliday St.
BIRMINGHAM

Tel. No. 021-643.4444 extn. 2613

Name of railway line Oxford -> Birmingham.

Access at Path along Avon bank from Emscot

Mileage post 107 1/2

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

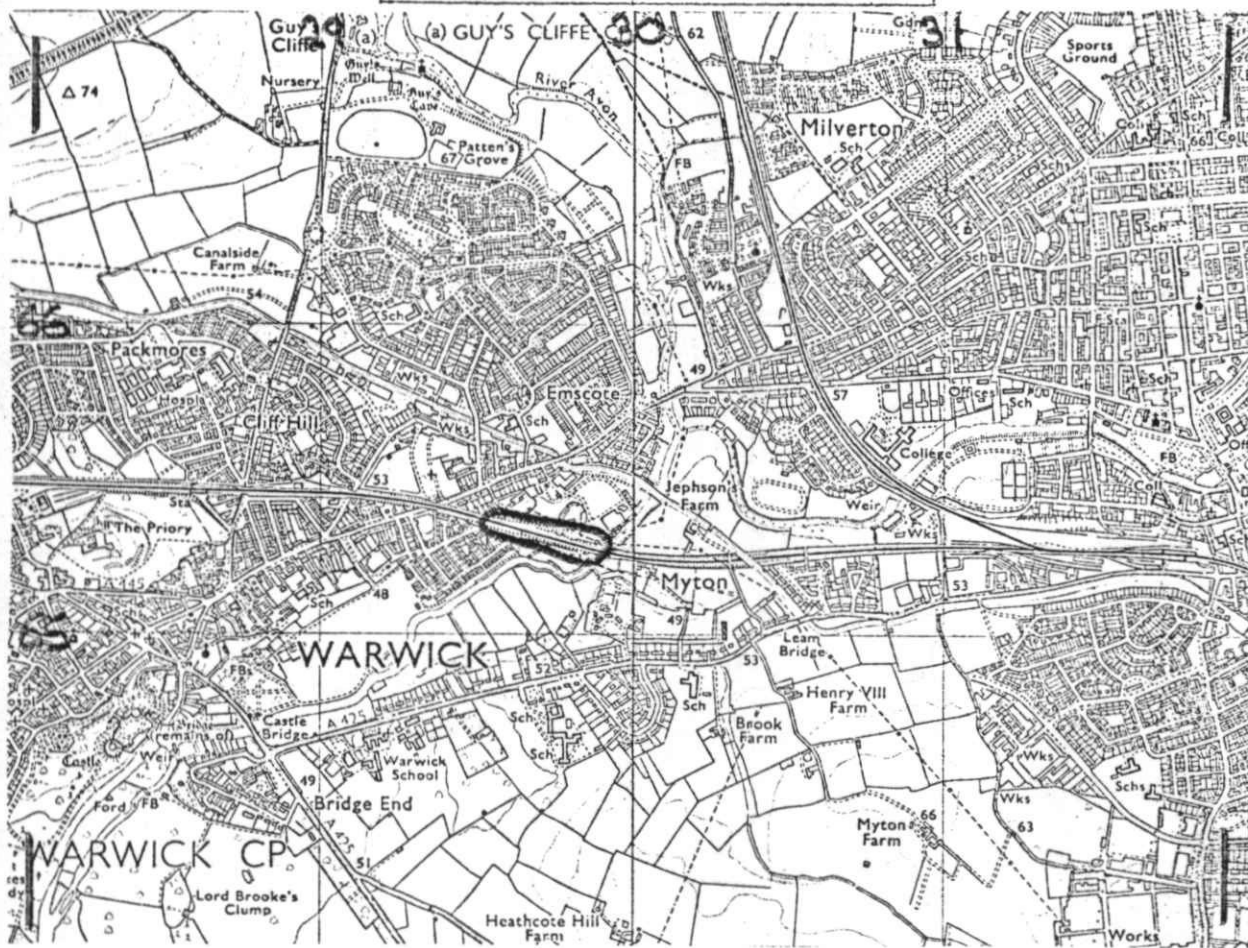
Date	By whom	Assessment/Action
<u>24th May 1979</u>	<u>Dr. C.M. Sargent, B.M. Garton & J.O. Mountford.</u>	<u>Provides a strange flora in the Central Midlands with a number of spp. associated with maritime habitats recorded here. The combination of this with a good cinder ephemeral flora make this botanically interesting. There is little natural vegetation but the embankment toward the river provides a zone of cut willow woodland which is valuable in urban context.</u> <u>* An odd site whose value lies mainly in occurrence of species miles from their normal localities. Some renewed clumping or disturbance would help and the place should be notified & monitored for further arrivals.</u> Continue overlea

FILE OPENED BY ITE Mark Wood

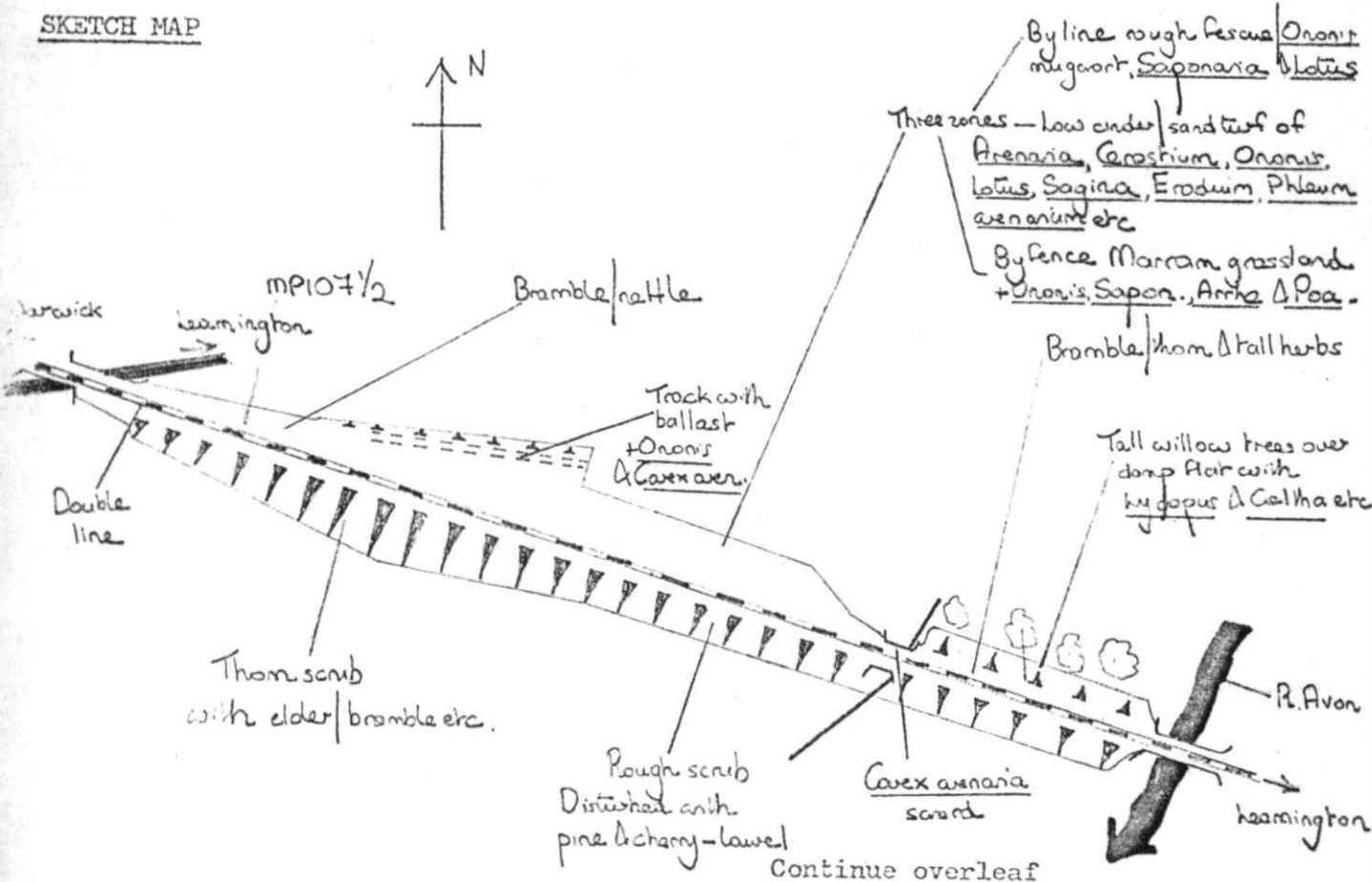
DATE 7th January 1980

LOCATION STATUS

<u>Accurate</u>	Approximate
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SKETCH MAP



Altitude 160' → 180'

Local Geology

Alluvium by R. Avon, over Triassic Waterstones, White Sandstones & Red Marl.Neighbouring landuses Waste & industrial land, river & private housing/gardens.

DIRECTION FROM ACCESS

N	E	W	S	E	W	or	BOTH
---	---	----------	---	---	---	----	------

Dist from * access point	0 → 250m	250 → 550m	0 → 125m	0 → 125m	150 → 300m	150 → 400m	350 → 550m	
Side of track °	S.	S.	N.	N.	N.	N.	N.	
Landform x	Emb.	Emb.	Flat	Emb/Flat	Flat	Flat	Flat	
Aspect-degrees	200°	200°	—	20°	—	—	—	
Width-metres	10m.	→15m.	5m.	→10m.	15.5m.	15m.	→8m.	
Disturbance +	—	M. Ball.	M. Cind.	—	S. Tipp. & M. Ball.	—	—	

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST * Dumping of sea-sand [column 5]. Following spp seen introduced here: Amnophila, Phleum avararium, Crastium diffusum, Carex avararia. [Previously noted in flora but not seen on this visit: Salsola, Cakile & Corispermum]. 115 spp noted including many of open sand & cinder. The willow belt also interesting.

General vegn characteristics and habitat description indicate side of track

The South side of the line is relatively monotonous and consists of rough scrub with bramble areas on a medium embankment. The flat by the line is of varying width and has a generally more open flora with few tall bushes but bramble and tall herbs plus Arrhenatherum are common. The E. part has a large number of alien spp. mixed in with the thorn bushes including particularly pine and Prunus laurocerasus [column 1]. The western area is more typical hawthorn & cinder etc [column 2]. The fairly broad flat on the northern side immediately west of the river has a low grass fringe of fescua/Poa by the line giving way to bramble and bushes in a dense thicket with locally some emergent tall herbs [column 3]. The embankment below has tall creek willow over ferns, bramble and tall herbs with Calltha, Lycopus etc. on the wet muddy flat by the fence [column 4]. The most interesting area is the flat from the small bridge W. of the Avon for about 200m.. The first area has a considerable amount of dumped sea-sand often with intermixed ballast and cinder, these latter predominating in the west. On the bridge top is a fairly pure sward of Carex avararia. The lineside further west Saponaria/Poa plus fescua/Ononis/mugwort/lotus in a markedly herb rich rough grassland. There is then a band of low turf with considerable bare ballast: the main cover being Ononis with Lotus, Erodium, Rumex sterilis, Arrhenatherum, Crastium diffusum, Arreraria, Festuca rubra and Arabisopsis. Finally by the fence there is coarse narrow grassland with Poa and Arrhenatherum plus large patches of Ononis and Saponaria. Carduus hirsutus is common under the shelter of the narrow [column 5]. The area west where a track to the power station comes in has more ballast but a generally similar flora to the first two zones of column 4 with Carex avararia, Ononis and tall herbs especially common [column 6]. The gradually narrowing bank to the A-road bridge has bramble/rattle and coarse herbs [column 7].

PREFERRED MANAGEMENT

Some renewed sea-sand dumping and disturbance useful to encourage survival of marshes
Grazing might help.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None but dumping of ballast & cinder & sea-sand.

John 24.5.79

Additional Species	NAME	CODE
	<i>Ammophila arenaria</i>	97
	<i>Aphelodes arvensis</i>	132
	<i>Arabis idae</i>	142
	<i>Arenaria ssp 3.5</i>	162
	<i>Arenaria lept.</i>	163
	<i>Asparagus o. off</i>	206
	<i>Bulbifera dew</i>	277
	<i>Carex arenaria</i>	344
	<i>Oenothera eryth.</i>	1371
	<i>Phleum overrahum</i>	1459
	<i>Populus X can. ser</i>	1550
	<i>Fraxinus laurocer.</i>	1615
	<i>Hieracium sp.</i>	1828
	<i>Valerianaella floe</i>	2145
	<i>Vicia sativa nigra</i>	2186

BRYOPHYTES

DATE 24.5.79

RECORDER CMSargent

Additional Species NAME CODE

001	Acro cord	0874	virg	185	rufe	269	osmu	363	myur	460	Pleu acum	546	681	Adel	790	Leio	883	lasey
003	Acro cord	0874	virg	186	schr	272	rufu	364	siri	461	subu	347	683	Anas	791	base	884	plann
004	Acro cusp	0891	argu	187	squa	274	taxi	365	piri	462	scua	348	684	Anas	794	base	885	plat
005	Acro cusp	0892	argu	188	subu	275	vari	366	Lept rupa	463	Pleu scru	349	686	Anth julia	796	turb	886	thui
006	Acro sarm	0900	bico	189	vari	276	Font	367	Lept smit	464	Pohl acum	351	688	Anth huan	801	cavi	887	quad
007	Acro sira	0911	caes	190	Dier aspe	276/1	anti	368	Lept flex	465	albi	554	689	laev	801/2	lania	888	Ptil cili
008	Aloi alio	0911	cana	191	denu	276-4	grac	373	Lesk poly	466	annot	555	690	Apha	801/2	aror	889	pule
009	Aloi alio	0911	capu	192	unci	281	grac	374	Lesk poly	466	crud	555	691	Barb	803	paie	890	Radu squi
010	Aloi alio	0911	denu	193	unci	281	squa	375	Leuc glau	470	deli	556	692	Barb	804	uile	891	comp
011	Ambi deat	0911	erxi	194	cirr	282	atse	375	Leuc sciu	470	drum	557	693	ate	805	pear	892	lind
012	Ambi deat	0911	erxi	195	cirr	283	atse	376	Mess ulig	471	elou	558	694	barb	806	pinn	893	Rebo hemi
013	Ambi deat	0911	erxi	196	blat	285	hygr	379	Mnia afh	472	ludw	559	695	grrg	807	rept	894	Rice
014	Ambi conf	0911	incl	197	blat	285	muen	380	cinc	473	nua	560	696	liac	808	seta	895	lud
015	Ambi conf	0911	incl	198	blat	285	obtu	381	horm	474	polu	561	697	imbr	809	syiv	896	mult
016	Ambi comp	0911	mura	199	flag	289	Grim	382	long	476	roth	562	700	Bazz	810	tric	897	plann
019	Ambi comp	0911	palten	200	lusc	289/1	alpi	383	long	478	Poly	563	701	Blas	811	bide	898	plann
020	Ambi comp	0911	palten	203	maju	289/2	riva	385	long	478	alio	564	702	Blas	812	comp	899	plann
021	Amph	1131	pseu	204	mont	297	deci	388	orth	480	alpi	565	703	Blas	813	frag	900	plann
022	Amph	1131	pseu	206	scop	297	deci	388	punc	482	comm	566	704	Blas	814	hete	901	plann
023	Andr	1132	pseu	207	scop	297	deci	388	punc	482	comm	567	705	Blas	815	hete	902	plann
024	Andr	1132	pseu	208	spur	298	rubu	391	rugi	483	form	568	706	mucl	816	bier	903	plann
025	Andr	1132	uug	209	stir	298	doni	392	stir	484	grac	569	707	mucl	818	exci	904	plann
026	Anoe	126	uug	210	stir	301	funa	394	stel	485	manu	570	708	mucl	819	exci	905	plann
027	Anoe	126	uug	211	stir	302	uug	395	uug	486	uug	571	709	mucl	820	long	906	plann
028	Anom	129	Camp	212	Dist	302	hant	395	uug	487	uug	572	710	mucl	821	long	907	plann
029	Anom	129	Camp	213	Dist	303	lavy	396	uug	488	uug	573	711	mucl	822	long	908	plann
030	Anom	129	Camp	214	Dist	306	lavy	397	Myur iula	489	uug	574	712	mucl	823	long	909	plann
031	Anom	129	Camp	215	Dist	309	lavy	401	Neck	491	uug	575	713	mucl	824	long	910	plann
032	Anom	129	Camp	216	Dist	311	lavy	402	comp	491	uug	576	714	mucl	825	long	911	plann
033	Anom	129	Camp	217	Dist	311	lavy	403	comp	491	uug	577	715	mucl	826	long	912	plann
034	Anom	129	Camp	218	Dist	311	lavy	404	comp	491	uug	578	716	mucl	827	long	913	plann
035	Anom	129	Camp	219	Dist	311	lavy	405	comp	491	uug	579	717	mucl	828	long	914	plann
036	Anom	129	Camp	220	Dist	311	lavy	406	comp	491	uug	580	718	mucl	829	long	915	plann
037	Anom	129	Camp	221	Dist	311	lavy	407	comp	491	uug	581	719	mucl	830	long	916	plann
038	Anom	129	Camp	222	Dist	311	lavy	408	comp	491	uug	582	720	mucl	831	long	917	plann
039	Anom	129	Camp	223	Dist	311	lavy	409	comp	491	uug	583	721	mucl	832	long	918	plann
040	Anom	129	Camp	224	Dist	311	lavy	410	comp	491	uug	584	722	mucl	833	long	919	plann
041	Anom	129	Camp	225	Dist	311	lavy	411	comp	491	uug	585	723	mucl	834	long	920	plann
042	Anom	129	Camp	226	Dist	311	lavy	412	comp	491	uug	586	724	mucl	835	long	921	plann
043	Anom	129	Camp	227	Dist	311	lavy	413	comp	491	uug	587	725	mucl	836	long	922	plann
044	Anom	129	Camp	228	Dist	311	lavy	414	comp	491	uug	588	726	mucl	837	long	923	plann
045	Anom	129	Camp	229	Dist	311	lavy	415	comp	491	uug	589	727	mucl	838	long	924	plann
046	Anom	129	Camp	230	Dist	311	lavy	416	comp	491	uug	590	728	mucl	839	long	925	plann
047	Anom	129	Camp	231	Dist	311	lavy	417	comp	491	uug	591	729	mucl	840	long	926	plann
048	Anom	129	Camp	232	Dist	311	lavy	418	comp	491	uug	592	730	mucl	841	long	927	plann
049	Anom	129	Camp	233	Dist	311	lavy	419	comp	491	uug	593	731	mucl	842	long	928	plann
050	Anom	129	Camp	234	Dist	311	lavy	420	comp	491	uug	594	732	mucl	843	long	929	plann
051	Anom	129	Camp	235	Dist	311	lavy	421	comp	491	uug	595	733	mucl	844	long	930	plann
052	Anom	129	Camp	236	Dist	311	lavy	422	comp	491	uug	596	734	mucl	845	long	931	plann
053	Anom	129	Camp	237	Dist	311	lavy	423	comp	491	uug	597	735	mucl	846	long	932	plann
054	Anom	129	Camp	238	Dist	311	lavy	424	comp	491	uug	598	736	mucl	847	long	933	plann
055	Anom	129	Camp	239	Dist	311	lavy	425	comp	491	uug	599	737	mucl	848	long	934	plann
056	Anom	129	Camp	240	Dist	311	lavy	426	comp	491	uug	600	738	mucl	849	long	935	plann
057	Anom	129	Camp	241	Dist	311	lavy	427	comp	491	uug	601	739	mucl	850	long	936	plann
058	Anom	129	Camp	242	Dist	311	lavy	428	comp	491	uug	602	740	mucl	851	long	937	plann
059	Anom	129	Camp	243	Dist	311	lavy	429	comp	491	uug	603	741	mucl	852	long	938	plann
060	Anom	129	Camp	244	Dist	311	lavy	430	comp	491	uug	604	742	mucl	853	long	939	plann
061	Anom	129	Camp	245	Dist	311	lavy	431	comp	491	uug	605	743	mucl	854	long	940	plann
062	Anom	129	Camp	246	Dist	311	lavy	432	comp	491	uug	606	744	mucl	855	long	941	plann
063	Anom	129	Camp	247	Dist	311	lavy	433	comp	491	uug	607	745	mucl	856	long	942	plann
064	Anom	129	Camp	248	Dist	311	lavy	434	comp	491	uug	608	746	mucl	857	long	943	plann
065	Anom	129	Camp	249	Dist	311	lavy	435	comp	491	uug	609	747	mucl	858	long	944	plann
066	Anom	129	Camp	250	Dist	311	lavy	436	comp	491	uug	610	748	mucl	859	long	945	plann
067	Anom	129	Camp	251	Dist	311	lavy	437	comp	491	uug	611	749	mucl	860	long	946	plann
068	Anom	129	Camp	252	Dist	311	lavy	438	comp	491	uug	612	750	mucl	861	long	947	plann
069	Anom	129	Camp	253	Dist	311	lavy	439	comp	491	uug	613	751	mucl	862	long	948	plann
070	Anom	129	Camp	254	Dist	311	lavy	440	comp	491	uug	614	752	mucl	863	long	949	plann
071	Anom	129	Camp	255	Dist	311	lavy	441	comp	491	uug	615	753	mucl	864	long	950	plann
072	Anom	129	Camp	256	Dist	311	lavy	442	comp	491	uug	616	754	mucl	865	long	951	plann
073	Anom	129	Camp	257	Dist	311	lavy	443	comp	491	uug	617	755	mucl	866	long	952	plann
074	Anom	129	Camp	258	Dist	311	lavy	444	comp	491	uug	618	756	mucl	867	long	953	plann
075	Anom	129	Camp	259	Dist	311	lavy	445	comp	491	uug	619	757	mucl	868	long	954	plann
076	Anom	129	Camp	260	Dist	311	lavy	446	comp	491	uug	620	758	mucl	869	long	955	plann
077	Anom	129	Camp	261	Dist	311	lavy	447	comp	491	uug	621	759	mucl	870	long	956	plann
078	Anom	129	Camp	262	Dist	311	lavy	448	comp	491	uug	622	760	mucl	871	long	957	plann
079	Anom	129	Camp	263	Dist	311	lavy	449	comp	491	uug	623	761	mucl	872	long	958	plann
080	Anom	129	Camp	264	Dist	311	lavy	450	comp	491	uug	624	762	mucl	873	long	959	plann
081	Anom	129	Camp	265	Dist	311	lavy	451	comp	491	uug	625	763	mucl	874	long	960	plann
082	Anom	129	Camp	266	Dist	311	lavy	452	comp	491	uug	626	764	mucl	875	long	961	plann
083	Anom	129	Camp	267	Dist	311	lavy	453	comp	491	uug	627	765	mucl	876	long	962	plann
084	Anom	129	Camp	268	Dist	311	lavy	454	comp	491	uug	628	766	mucl	877	long	963	plann
085	Anom	129	Camp	269	Dist	311	lavy	455	comp	491	uug	629	767	mucl	878	long	964	plann
086	Anom	129	Camp	270	Dist	311	lavy	456	comp	491	uug	630	768	mucl	879	long	965</	

LMA BIA

B121

SITE NAME Emscott Power Station	RECORDER B.M. Carlson	WEATHER Mainly warm & bright but with occasional drizzle and a cloudburst at 1215. Little wind.	LANDFORM ① 2 3 4 5 ⑥ 7 Moderately busy line. Short area of cinder & sand flat; a emb. near R. Av or and AP.
M.P. 107 1/2	TIPPING 11	DATE 24.5.79	TIME 0940 → 1215
COUNTY Warwickshire	N.L.U. B13		

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	45	700	Long ridge of scrub in urban area. Also good expanse of artificial sand-dune and cinder-flat. Good range of food species and much cover. The dune also would repay detailed study to see whether Insectivora insectivores are also established here. The scrub is very useful as nesting cover for small birds but it is not extensive and is probably no more valuable than a series of suburban gardens.	Birds (small)	3	3	3
0	6	15	700		Birds (large)	2	2	2
1	6	20	700		Mamm. (small)	3	2	2
5	6	15	703		Mamm. (large)	2	1	1
6	9	5	703		Other verts.	.	2	2
					Lepidoptera	3	.	3
					Other insects	3	3	3
				Other inverts.	3	3	3	

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Song Thrush	4310	1	Rabbit	3	Large white	2
Blackbird	4240	3			Buff-tailed Bunting	1
Woodpigeon	2990	2			7-spot ladybird	2
Willow Warbler	4720	1			Various:	
Starling	5180	3			Isopoda	3
Houset Sparrow	5250	2			Hymenoptera (ant)	5
Great Tit	3790	1				
Maggie	3720	1				
Wren	3980	1				
Swallow	3610	1				
contd. over			contd. over		contd. over	
Moorhen	1730	1				
contd. over			contd. over		contd. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Analey

Map Ref SP300911

Data bank ref

NCC Region West Midlands

County Warwickshire

Internal ref B123

STATUS

Part of	Adjacent to	NMR	PNNR	LNR	SSSI	
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County Flora site. State ref -

Local Information site. State source - M.J.D'Oyley - N.C.C., A.R.O.

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Calcareous grassland, both damp and dry. Aspen /
) sallow and thorn scrub plus tall woodland.
Geological)

RAILWAY REGION LMA DIVISION Birmingham AREA -

Address of Area Civil Engrs Office E.A. Newers (D.C.E.)
Telephone number Station House
10 Holliday St
BIRMINGHAM
Tel. No. 021-643.4444 extn. 2613

Name of railway line Norwich -> Birmingham

Access at Farm track bridge over at 6P297910 Mileage post 6 1/4

NOTIFICATION

	With whom	By whom	Date	Ref.
Site notified to BR				
Management agreement (see section 3 for detail)				

VISITS

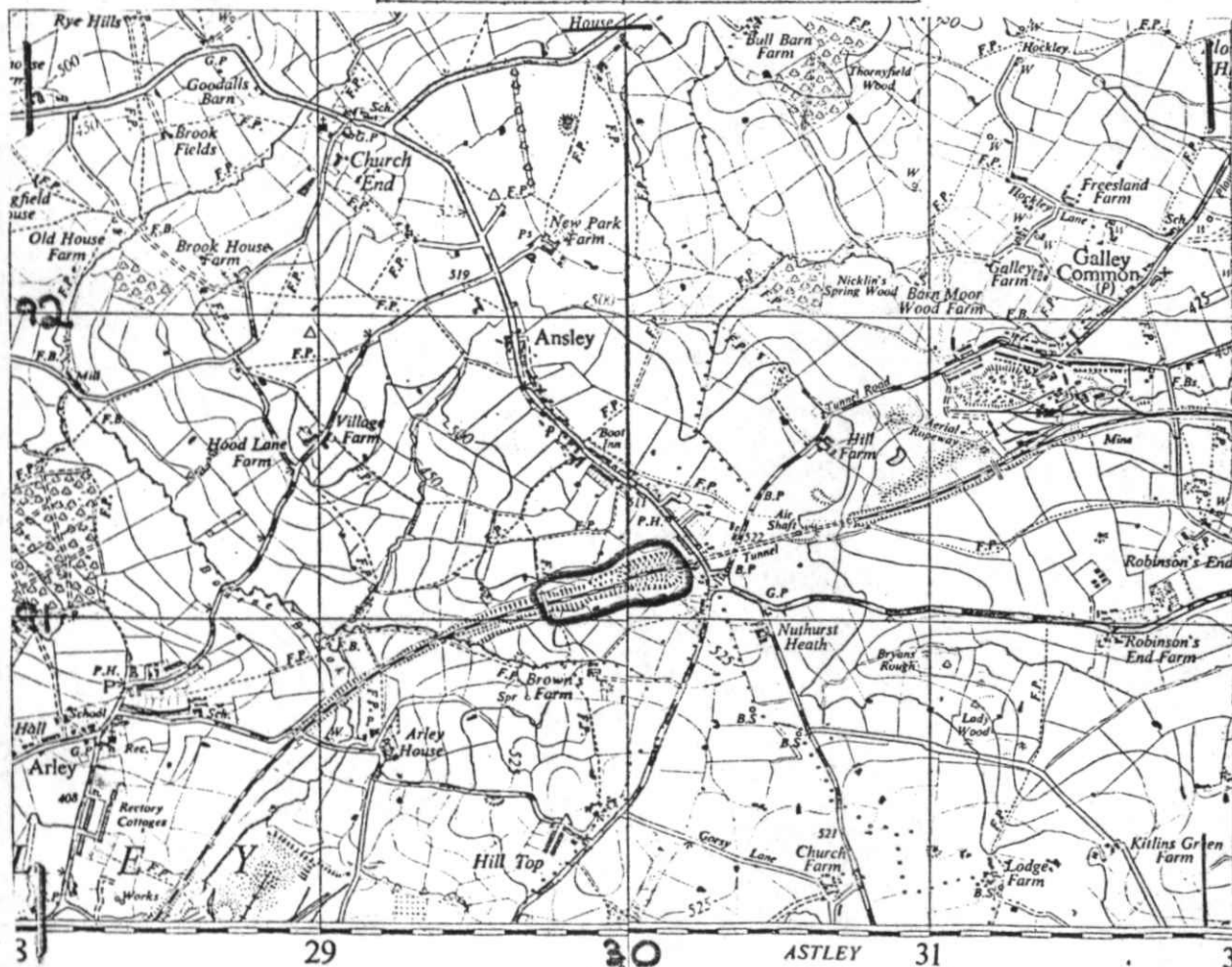
Date	By whom	Assessment/Action
<u>24th May 1979</u>	<u>Dr. C.M. Sargent,</u> <u>B.M. Carleton &</u> <u>J.O. Mountford.</u>	<u>A very large cutting with a good plant list and a pleasant variety of calcareous grassland types in an agricultural area where permanent turf is very rare. There is also scrub of several kinds providing cover and nesting opportunities. This site appears to be well frequented by children and people walking dogs but despite this disturbance it is a most valuable semi-natural area.</u> <u>* Recommend notification to BR and co-operation on management. Though probably not of SSSI status, this site could probably be made a LNR and used for educational purposes.</u>

FILE OPENED BY ITE, Monks Wood

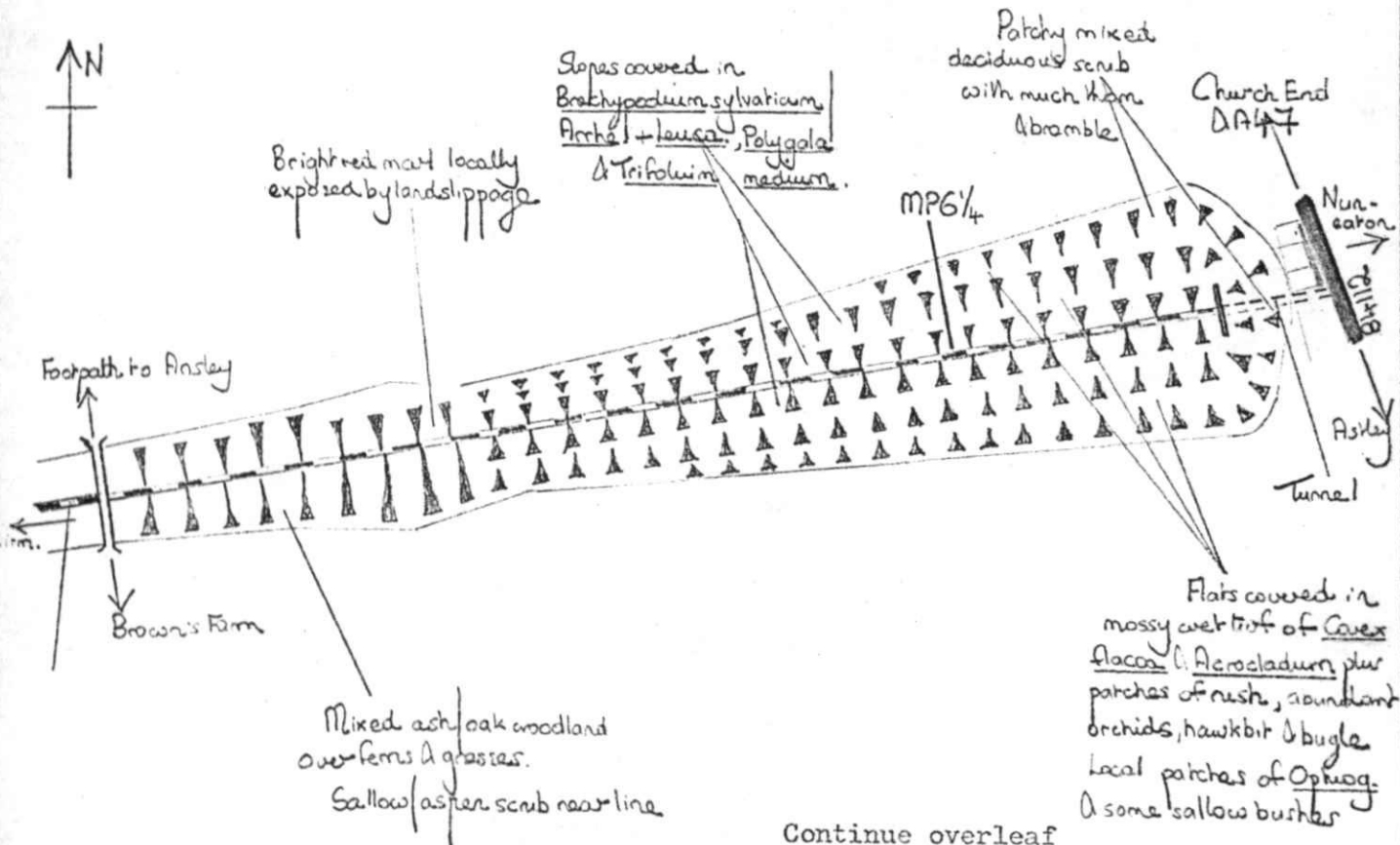
DATE 8th Jan. 1980

LOCATION STATUS

Accurate	Approximate
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SKETCH MAP



SITE NAME Ansley

CDB ref

(Section 3)
Internal ref B123Altitude 450 → 525Local Geology Carboniferous Upper Coal Measures of Keale Beds
-red marls and thin Sandstones; with band of
Epirorbis limestone near APNeighbouring landuses Improved grassland & housing.

DIRECTION FROM ACCESS

N (E) W S E W or BOTH

Dist from * access point	0 →	0 →	0 →	00 →	150 →	150 →	400 →
	150m.	300m.	400m.	400m.	400m.	400m.	450m.
Side of track °	S.	N. mainly	N	N	S	S	S → W.
Landform x	Cut.	Cut.	Cut. slopes	Flats	Cut. slopes	Flats	Cut.
Aspect-degrees	350°	170°	170°	—	350°	—	170°-300°
Width-metres	c. 40m.	c. 20m.	3 x c. 15m	3 x c. 5m	3 x c. 15m	3 x c. 5m	→ 50m.
Disturbance +	—	Slippage etc.	—	—	—	—	—

- * If site is both sides of access point, precede distance by cardinal point
 o Indicate side of track by compass cardinal point
 x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
 + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

108 spp. including two Ribes spp., Pimpinella major, Sanguisorba,
Ophioglossum, orchids and Polygala. Damp and dry calcicolous grassland and scrub with aspen
 as well as tall woodland. Soil slippage

General vegn characteristics and habitat description indicate side of track

A very large steeped cutting mainly covered in calcicolous grassland. The west end by the AP has
 however a large area dominated by woody plants on the S. side. Near the line is a scrub about
 3m. high composed of aspen and sallow with tall herbs and occasional coarse grasses. This gives
 way on the upper slopes fairly abruptly to tall mixed woodland of ash and oak with birch, locally
 cut a patchy scrub layer of them etc and a ground cover of ferns, low bushes and shade grasses
 [column 1]. The opposite side shows signs of soil slippage and there is exposed red-marl. This occurs
 mainly on the N. and generally along to the tunnel where it can be confused with the post tunnel
 demolition. An open vegetation derived from the surrounding grassland occurs [column 2]. The
 slopes of the steeped cutting have a mixed forb-rich calcicolous grassland of Arrhenatherum,
Brachypodium pinnatum, with fescue, Poa, laucanthemum, Polygala vulgaris, Trifolium medium
 and abundant Camptothecium lutescens. The north side has isolated scrubby patches and bromide
 with associated Hygss etc. [column 3] whereas the south is generally rather damper and has very
 little woody cover. [column 5]. The flats are usually fairly damp and covered in turf where the
 moss Acrotadium cuspidatum is the most abundant sp.. However there are local areas of rushes,
 large patches of Carex flacca and occasional low sallow bushes. Orchids are abundant, as are
Leontodon, and where it is drier Lotus, fescue, Poa, Dactylis and Arrhenatherum [column 4]. The
S. side flats are essentially the same but less often have sallow and in addition have patches
 of Ophioglossum [column 6]. The 'amphitheatre' around and above the tunnel portal has
 most of these vegetation types present but is considerably more wooded and especially near the
 top and adjacent to the houses by the B4112 has thick hawthorn scrub [column 7].

PREFERRED MANAGEMENT

Grazing/mowing to prevent scrub encroachment & encourage lower-growing sp..

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

The demolition of part of the tunnel has caused some soil disturbance & there are local signs of
 spraying & ballasting immediately by the line.

form 24.5.79

Continue overleaf

GRASSES	ADDITIONAL SPECIES	CODE	NAME
36 Agropy	<i>Mylaeohs sylvatica</i>	1325	
35 Agropy	<i>Ophragmosum v.mil</i>	1380	
40	<i>Salix cinerea</i>	1786	
41 Aves	<i>Hieracium sp.</i>	1828	
42 Alopec	<i>Vicia sativa nigra</i>	2186	
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Additional Species
CODE NAME

001	Acu cord	0874	viri	185	rufe	269	osmu	363	myur	460	Pleu acum	546	pauc	681	Adel	790	Leio bade	883	lary
002	Acro cord	0875	arige	186	subu	272	rufu	364	siri	461	subu	547	pust	682	Anax orca	791	bant	884	pinn
003	Acro cord	0876	lana	187	taxi	273	taxi	365	Lept rupa	462	Pleu squa	548	recu	683	Anax doni	792	muel	885	plat
004	Acro cord	0877	bico	188	viri	274	viri	366	Lept rupa	463	Pleu schr	549	trif	684	Anth julia	793	turb	886	thuj
005	Acro cord	0878	caes	189	Font	275	Font	367	Lept rupa	464	Pleu hohl	550	nova	685	Anth laev	794	Leje cavi	887	quad
006	Acro cord	0879	axre	190	Font	276	Font	368	Lept rupa	465	Pleu hohl	551	Sema	686	Anth laev	795	Leje cavi	888	Pil
007	Acro cord	0880	axre	191	Font	277	Font	369	Lept rupa	466	Pleu hohl	552	Sema	687	Anth laev	796	Leje cavi	889	Pil
008	Acro cord	0881	axre	192	Font	278	Font	370	Lept rupa	467	Pleu hohl	553	Sema	688	Anth laev	797	Leje cavi	890	Pil
009	Acro cord	0882	axre	193	Font	279	Font	371	Lept rupa	468	Pleu hohl	554	Sema	689	Anth laev	798	Leje cavi	891	Pil
010	Acro cord	0883	axre	194	Font	280	Font	372	Lept rupa	469	Pleu hohl	555	Sema	690	Anth laev	799	Leje cavi	892	Pil
011	Acro cord	0884	axre	195	Font	281	Font	373	Lept rupa	470	Pleu hohl	556	Sema	691	Anth laev	800	Leje cavi	893	Pil
012	Acro cord	0885	axre	196	Font	282	Font	374	Lept rupa	471	Pleu hohl	557	Sema	692	Anth laev	801	Leje cavi	894	Pil
013	Acro cord	0886	axre	197	Font	283	Font	375	Lept rupa	472	Pleu hohl	558	Sema	693	Anth laev	802	Leje cavi	895	Pil
014	Acro cord	0887	axre	198	Font	284	Font	376	Lept rupa	473	Pleu hohl	559	Sema	694	Anth laev	803	Leje cavi	896	Pil
015	Acro cord	0888	axre	199	Font	285	Font	377	Lept rupa	474	Pleu hohl	560	Sema	695	Anth laev	804	Leje cavi	897	Pil
016	Acro cord	0889	axre	200	Font	286	Font	378	Lept rupa	475	Pleu hohl	561	Sema	696	Anth laev	805	Leje cavi	898	Pil
017	Acro cord	0890	axre	201	Font	287	Font	379	Lept rupa	476	Pleu hohl	562	Sema	697	Anth laev	806	Leje cavi	899	Pil
018	Acro cord	0891	axre	202	Font	288	Font	380	Lept rupa	477	Pleu hohl	563	Sema	698	Anth laev	807	Leje cavi	900	Pil
019	Acro cord	0892	axre	203	Font	289	Font	381	Lept rupa	478	Pleu hohl	564	Sema	699	Anth laev	808	Leje cavi	901	Pil
020	Acro cord	0893	axre	204	Font	290	Font	382	Lept rupa	479	Pleu hohl	565	Sema	700	Bazz	809	Leje cavi	902	Pil
021	Acro cord	0894	axre	205	Font	291	Font	383	Lept rupa	480	Pleu hohl	566	Sema	701	Bazz	810	Leje cavi	903	Pil
022	Acro cord	0895	axre	206	Font	292	Font	384	Lept rupa	481	Pleu hohl	567	Sema	702	Bazz	811	Leje cavi	904	Pil
023	Acro cord	0896	axre	207	Font	293	Font	385	Lept rupa	482	Pleu hohl	568	Sema	703	Bazz	812	Leje cavi	905	Pil
024	Acro cord	0897	axre	208	Font	294	Font	386	Lept rupa	483	Pleu hohl	569	Sema	704	Bazz	813	Leje cavi	906	Pil
025	Acro cord	0898	axre	209	Font	295	Font	387	Lept rupa	484	Pleu hohl	570	Sema	705	Bazz	814	Leje cavi	907	Pil
026	Acro cord	0899	axre	210	Font	296	Font	388	Lept rupa	485	Pleu hohl	571	Sema	706	Bazz	815	Leje cavi	908	Pil
027	Acro cord	0900	axre	211	Font	297	Font	389	Lept rupa	486	Pleu hohl	572	Sema	707	Bazz	816	Leje cavi	909	Pil
028	Acro cord	0901	axre	212	Font	298	Font	390	Lept rupa	487	Pleu hohl	573	Sema	708	Bazz	817	Leje cavi	910	Pil
029	Acro cord	0902	axre	213	Font	299	Font	391	Lept rupa	488	Pleu hohl	574	Sema	709	Bazz	818	Leje cavi	911	Pil
030	Acro cord	0903	axre	214	Font	300	Font	392	Lept rupa	489	Pleu hohl	575	Sema	710	Bazz	819	Leje cavi	912	Pil
031	Acro cord	0904	axre	215	Font	301	Font	393	Lept rupa	490	Pleu hohl	576	Sema	711	Bazz	820	Leje cavi	913	Pil
032	Acro cord	0905	axre	216	Font	302	Font	394	Lept rupa	491	Pleu hohl	577	Sema	712	Bazz	821	Leje cavi	914	Pil
033	Acro cord	0906	axre	217	Font	303	Font	395	Lept rupa	492	Pleu hohl	578	Sema	713	Bazz	822	Leje cavi	915	Pil
034	Acro cord	0907	axre	218	Font	304	Font	396	Lept rupa	493	Pleu hohl	579	Sema	714	Bazz	823	Leje cavi	916	Pil
035	Acro cord	0908	axre	219	Font	305	Font	397	Lept rupa	494	Pleu hohl	580	Sema	715	Bazz	824	Leje cavi	917	Pil
036	Acro cord	0909	axre	220	Font	306	Font	398	Lept rupa	495	Pleu hohl	581	Sema	716	Bazz	825	Leje cavi	918	Pil
037	Acro cord	0910	axre	221	Font	307	Font	399	Lept rupa	496	Pleu hohl	582	Sema	717	Bazz	826	Leje cavi	919	Pil
038	Acro cord	0911	axre	222	Font	308	Font	400	Lept rupa	497	Pleu hohl	583	Sema	718	Bazz	827	Leje cavi	920	Pil
039	Acro cord	0912	axre	223	Font	309	Font	401	Lept rupa	498	Pleu hohl	584	Sema	719	Bazz	828	Leje cavi	921	Pil
040	Acro cord	0913	axre	224	Font	310	Font	402	Lept rupa	499	Pleu hohl	585	Sema	720	Bazz	829	Leje cavi	922	Pil
041	Acro cord	0914	axre	225	Font	311	Font	403	Lept rupa	500	Pleu hohl	586	Sema	721	Bazz	830	Leje cavi	923	Pil
042	Acro cord	0915	axre	226	Font	312	Font	404	Lept rupa	501	Pleu hohl	587	Sema	722	Bazz	831	Leje cavi	924	Pil
043	Acro cord	0916	axre	227	Font	313	Font	405	Lept rupa	502	Pleu hohl	588	Sema	723	Bazz	832	Leje cavi	925	Pil
044	Acro cord	0917	axre	228	Font	314	Font	406	Lept rupa	503	Pleu hohl	589	Sema	724	Bazz	833	Leje cavi	926	Pil
045	Acro cord	0918	axre	229	Font	315	Font	407	Lept rupa	504	Pleu hohl	590	Sema	725	Bazz	834	Leje cavi	927	Pil
046	Acro cord	0919	axre	230	Font	316	Font	408	Lept rupa	505	Pleu hohl	591	Sema	726	Bazz	835	Leje cavi	928	Pil
047	Acro cord	0920	axre	231	Font	317	Font	409	Lept rupa	506	Pleu hohl	592	Sema	727	Bazz	836	Leje cavi	929	Pil
048	Acro cord	0921	axre	232	Font	318	Font	410	Lept rupa	507	Pleu hohl	593	Sema	728	Bazz	837	Leje cavi	930	Pil
049	Acro cord	0922	axre	233	Font	319	Font	411	Lept rupa	508	Pleu hohl	594	Sema	729	Bazz	838	Leje cavi	931	Pil
050	Acro cord	0923	axre	234	Font	320	Font	412	Lept rupa	509	Pleu hohl	595	Sema	730	Bazz	839	Leje cavi	932	Pil
051	Acro cord	0924	axre	235	Font	321	Font	413	Lept rupa	510	Pleu hohl	596	Sema	731	Bazz	840	Leje cavi	933	Pil
052	Acro cord	0925	axre	236	Font	322	Font	414	Lept rupa	511	Pleu hohl	597	Sema	732	Bazz	841	Leje cavi	934	Pil
053	Acro cord	0926	axre	237	Font	323	Font	415	Lept rupa	512	Pleu hohl	598	Sema	733	Bazz	842	Leje cavi	935	Pil
054	Acro cord	0927	axre	238	Font	324	Font	416	Lept rupa	513	Pleu hohl	599	Sema	734	Bazz	843	Leje cavi	936	Pil
055	Acro cord	0928	axre	239	Font	325	Font	417	Lept rupa	514	Pleu hohl	600	Sema	735	Bazz	844	Leje cavi	937	Pil
056	Acro cord	0929	axre	240	Font	326	Font	418	Lept rupa	515	Pleu hohl	601	Sema	736	Bazz	845	Leje cavi	938	Pil
057	Acro cord	0930	axre	241	Font	327	Font	419	Lept rupa	516	Pleu hohl	602	Sema	737	Bazz	846	Leje cavi	939	Pil
058	Acro cord	0931	axre	242	Font	328	Font	420	Lept rupa	517	Pleu hohl	603	Sema	738	Bazz	847	Leje cavi	940	Pil
059	Acro cord	0932	axre	243	Font	329	Font	421	Lept rupa	518	Pleu hohl	604	Sema	739	Bazz	848	Leje cavi	941	Pil
060	Acro cord	0933	axre	244	Font	330	Font	422	Lept rupa	519	Pleu hohl	605	Sema	740	Bazz	849	Leje cavi	942	Pil
061	Acro cord	0934	axre	245	Font	331	Font	423	Lept rupa	520	Pleu hohl	606	Sema	741	Bazz	850	Leje cavi	943	Pil
062	Acro cord	0935	axre	246	Font	332	Font	424	Lept rupa	521	Pleu hohl	607	Sema	742	Bazz	851	Leje cavi	944	Pil
063	Acro cord	0936	axre	247	Font	333	Font	425	Lept rupa	522	Pleu hohl	608	Sema	743	Bazz	852	Leje cavi	945	Pil
064	Acro cord	0937	axre	248	Font	334	Font	426	Lept rupa	523	Pleu hohl	609	Sema	744	Bazz	853	Leje cavi	946	Pil
065	Acro cord	0938	axre	249	Font	335	Font	427	Lept rupa	524	Pleu hohl	610	Sema	745	Bazz	854	Leje cavi	947	Pil
066	Acro cord	0939	axre	250	Font	336	Font	428	Lept rupa	525	Pleu hohl	611	Sema	746	Bazz	855	Leje cavi	948	Pil
067	Acro cord	0940	axre	251	Font	337	Font	429	Lept rupa	526	Pleu hohl	612	Sema	747	Bazz	856	Leje cavi	949	Pil
068	Acro cord	0941	axre	252	Font	338	Font	430	Lept rupa	527	Pleu hohl	613	Sema	748	Bazz	857	Leje cavi	950	Pil
069	Acro cord	0942	axre	253	Font	339	Font	431	Lept rupa	528	Pleu hohl	614	Sema	749	Bazz	858	Leje cavi	951	Pil
070	Acro cord	0943	axre	254	Font	340	Font	432	Lept rupa	529	Pleu hohl	615	Sema	750	Bazz	859	Leje cavi	952	Pil
071	Acro cord	0944	axre	255	Font	341	Font	433	Lept rupa	530	Pleu hohl	616	Sema	751	Bazz	860	Leje cavi	953	Pil
072	Acro cord	0945	axre	256	Font	342	Font	434	Lept rupa	531	Pleu hohl	617	Sema	752	Bazz	861	Leje cavi	954	Pil
073	Acro cord	0946	axre	257	Font	343	Font	435	Lept rupa	532	Pleu hohl	618	Sema	753	Bazz	862	Leje cavi	955	Pil
074	Acro cord	0947	axre	258	Font	344	Font	436	Lept rupa	533	Pleu hohl	619	Sema	754	Bazz	863	Leje cavi	956	Pil
075	Acro cord	0948	axre	259	Font	345	Font	437	Lept rupa	534	Pleu hohl	620	Sema	755	Bazz	864	Leje cavi	957	Pil
076	Acro cord	0949	axre	260	Font	346	Font	438	Lept rupa	535	Pleu								

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Snowford Junction

Map Ref SP38.66 Data bank ref

NCC Region West Midlands

County Warwickshire

Internal ref B125

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI	
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County Flora site. State ref -

Local Information site. State source - M.J.D'Oyly - A.R.O., N.C.C.

Discovery etc. (Describe) -

INTEREST

<u>(Plants)</u>	<u>(General)</u>	<u>(Local)</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

(Habitat)) describe - Calcicolous grassland with scattered bushes and some areas of scrub and bramble. Old track bed.
)
Geological)

RAILWAY REGION LMR DIVISION Watford

AREA -

Address of Area Civil Engrs Office C.W. Kendall (D.C.E.)

Telephone number

Malton Ho.
65/67 Clarendon Rd.
WATFORD

Tel. No. 0923 44311 ext. 7355

Name of railway line Junction of branch to Stockton Quarry with Malton Junction line.

Access at Lane bridge over at SP382665.

Mileage post 93/4

NOTIFICATION

Site notified to BR

Management agreement
 (see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

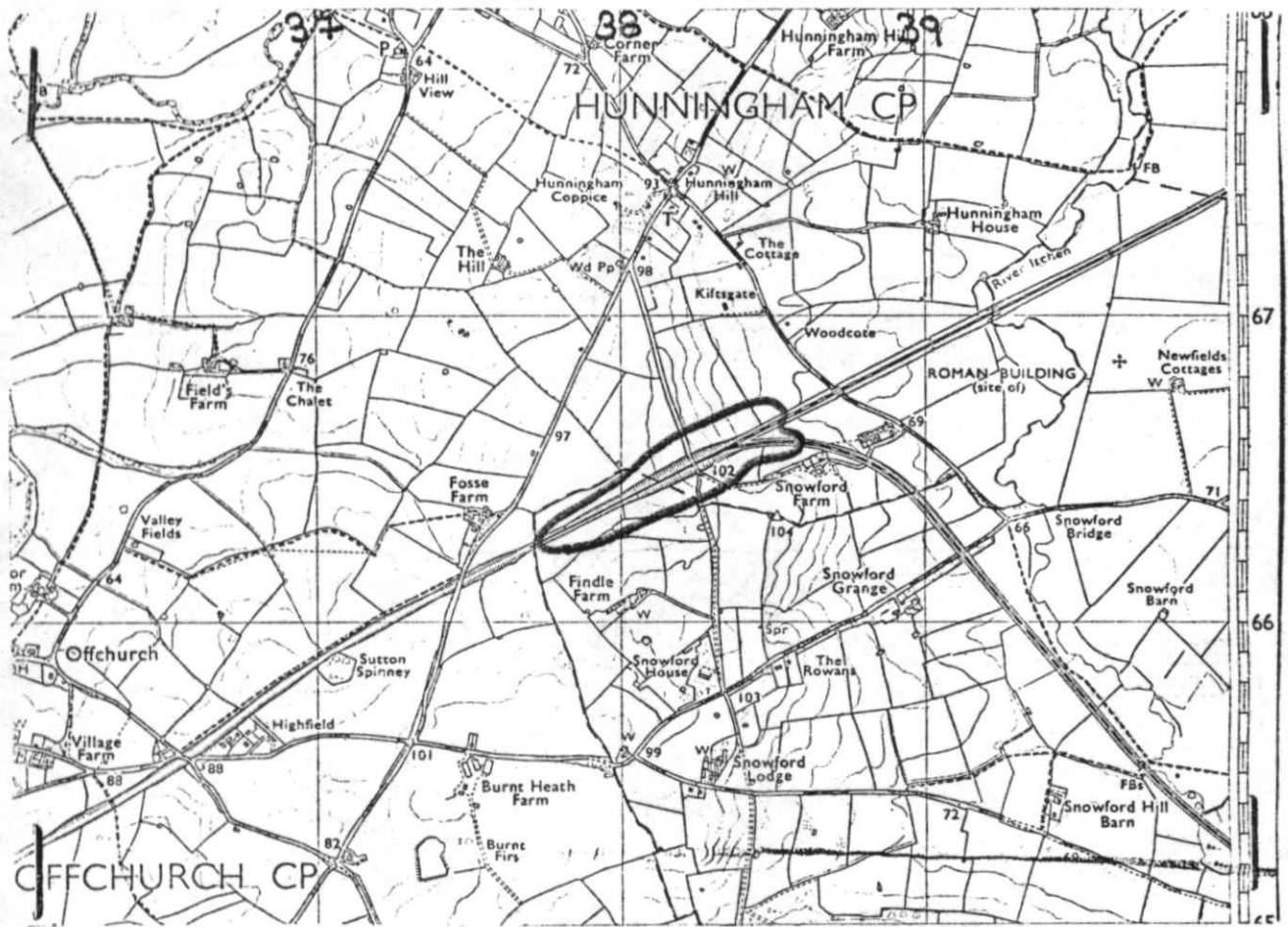
Date	By whom	Assessment/Action
<u>25th May 1979</u>	<u>Dr. C.M. Sargent, B.M. Coulston & J.O. Mountford</u>	<u>Good area of semi-natural grassland with scattered light scrub and presence of two uncommon normally marshine spp on the cinder of this very lightly used line. An extremely attractive site providing a refuge for wild plants and animals in what is mainly an area of arable agriculture.</u> <u>* Recommend management agreement with BR. This should be no problem since the line is not an important one. The site is not good enough to schedule but is eminently suitable for use as an educational nature reserve. The other sites known to M.J.D'Oyly on this branch should also be surveyed if possible.</u>

FILE OPENED BY MTE, Manks Wood

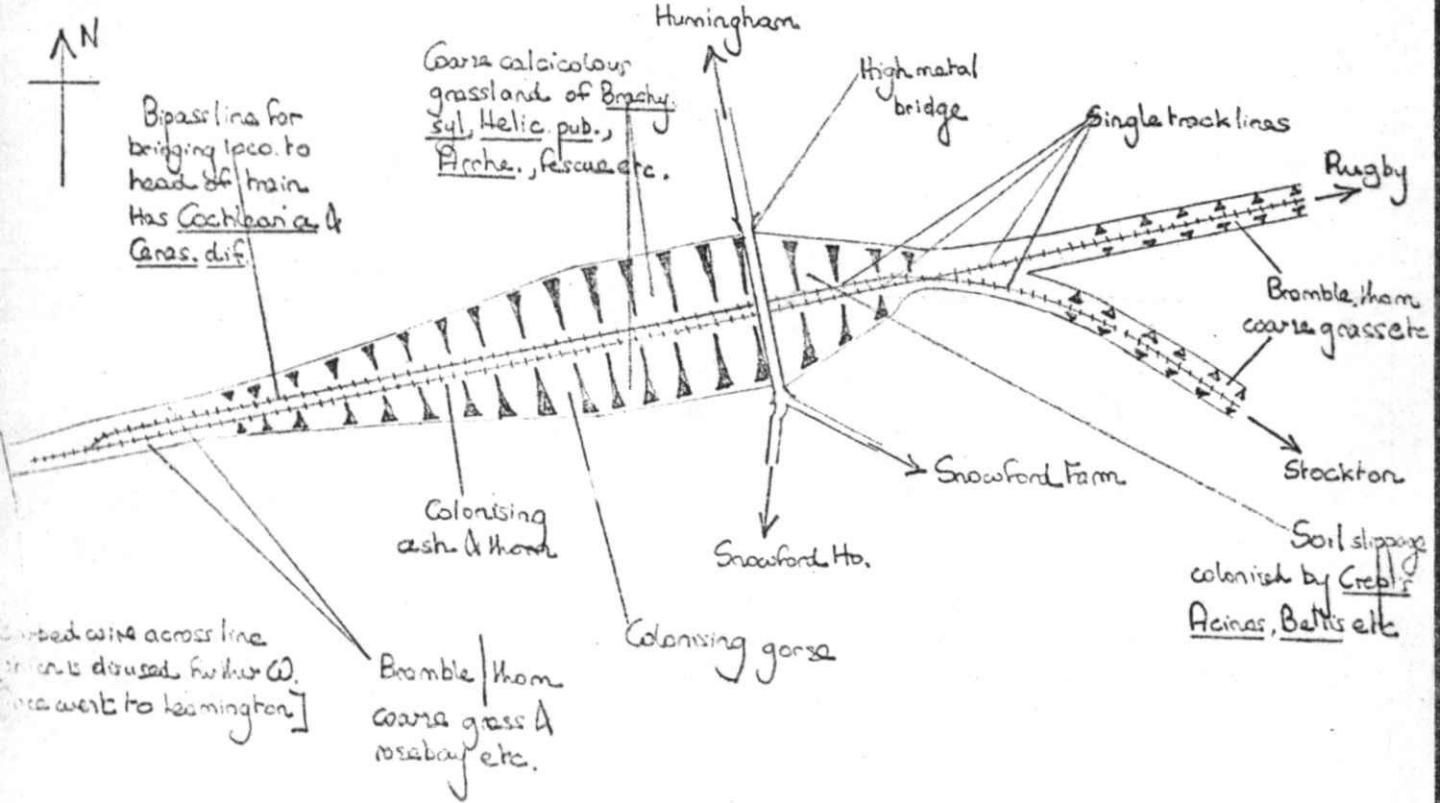
DATE 8th January 1980

LOCATION STATUS

Accurate	Approximate
----------	-------------



SKETCH MAP



SITE NAME Snowford Junction

CDB ref

(Section 3)
Internal ref 8125Altitude 260' → 330' Local Geology Triassic: Kuper Red MarlNeighbouring landuses Arable agriculture + growing on abandoned line.

DIRECTION FROM ACCESS

N	E	W	S	E	W	or	BOTH
---	---	----------	---	---	---	----	-------------

Dist from * access point	W.0 → 550m	E.150 → 300m	E.100 → W.200m	E.100 → W.200m	E.100 → W.20m	W.200 →400m	W.200 →550m	W.400 →550m
Side of track °	N. & on!	both	N	S	N	S	N	S
Landform x	Bypass line	Embe.	Cut.	Cut.	Cut.	Cut.	Cut → Flat	→ Flat
Aspect - degrees	—	Various	160°	340°	160°	340°	160°	(340°)
Width - metres	4m	All c. 6m.	→35m.	→35m	15m	15m.	→15m	→10m
Disturbance +	G. Ball	M. Ball.	—	—	Slippage	—	—	—

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST 109 spp. including Cirsium aculeata & Plantago media on good coarse calcicolous grassland. Aletris common on soil slips. The lightly used bypass line has Cochlearia densica & Crastium diffusum [Both f. common here, the form of known in this (at least), the latter not, see Cherwick. Flora]

General vegn characteristics and habitat description indicate side of track

The site is at the point where the Marton Junction line terminates and where the branch to Stockton Quarry leaves it. Trains draw into the cut-de-sec here, the locomotive uses the bypass line to change ends so that it heads the train and it may then go up the line to the E.. The bypass line on the north side is thus lightly used and only by the loco., it is managed only rarely and has good ephemeral flora among the ballast of Cochlearia densica, Crastium diffusum, Erophila & Arabidopsis among the open ballast with occasional perennials colonized [column 1]. The line from Rugby and the quarry branch both go up onto low embankments covered in bramble, rosebay, Hypericum, coarse grasses and hawthorn, the latter esp near the bottom [column 2]. In terms of semi-natural vegetation the West area is the deepest stretch of the cutting where on both sides there is coarse herb-rich mixed calcicolous grassland of Brachypodium sylv, Antennatherum fescua, Poa and Helictotrichon pubescens. Tall herbs are especially common but couchsp, vidua, Cirsium aculeata and Plantago media are also frequent. There is frequent local colonising hawthorn etc. [columns 3 & 4]. On the N. side just east of the bridge is an area of soil-slippage where the ground is coloured white by the daisies, with abundant Aletris, Crepis also and some Linum. [column 5]. The lower western parts of the cutting are much more wooded with young gorse frequent on the S. side with occasional areas of tall ash and alder/hawthorn in what is a coarse grassland thicket near the AP [column 6]. The north side is rougher and has large areas of Crotogon / Pinus scrub with bramble thicket & poor Antennatherum also present [column 7]. As it approaches the terminus the line has flats on both sides with a broadly similar vegetation to the latter but with more nettle, rosebay & weed spp. [column 8]. Just beyond the fence the dismantled line passes onto an embankment.

PREFERRED MANAGEMENT

The bypass line should not be sprayed and the cutting slopes would benefit from mowing / grazing and probably some cutting back of hawthorn.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

The gorse looks to have cut back or burnt about 2 or 3 years ago as the population is very even-aged. However it is difficult to decide which.

form 25.5.79

Continue overleaf

ANIMAL RECORD	REGN. LMA	DIVN. WAT	AREA	SITE B125
SITE NAME Snowford Junction	RECORDER B.M. Carleton	WEATHER Bright and sunny at first but unsettled, with a short shower following by a downpour with hail at 1615		LANDFORM 1 2 3 4 ⑤ 6 7 Steep large cutting becoming a flat at terminus to SW. and posing onto low embankments toward Rugby & Stockton.
M.P. 93/4	TIPPING —	DATE 25.5.79	TIME 1430 → 1630	
COUNTY Warwickshire	N.L.U. Arable agriculture			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	30	700	Deep grassy cutting with coarse areas and some with fine calcicolous turf. Areas of land-slip also occur on the steep slopes. There is frequent scrub colonisation throughout and this becomes continuous in the W. and on the embankments to the east. The lightly used bypass line has an open sward vegetation. Good site for semi-natural veg. in arable area with diversity of cover and food for insects etc and sufficient size. A structural variety for bigger animals. The weather poor for estimating spp. present.	Birds (small)	3	3	2
1	1	10	700		Birds (large)	2	2	1
1	6	35	700		Mamm. (small)	3	2	2
4	8	5	703		Mamm. (large)	2	1	1
6	5	10	703		Other verts.	.	2	1
					Lepidoptera	3	.	2
					Other insects	3	3	3
				Other inverts.	3	3	3	

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Yellowhammer	5580	2	Rabbit	2	Small White	1
Willow Warbler	4720	1			Lasius sp. & hills	
Green Woodpecker	3380	1			Ant. sp.	
House Sparrow	5250	2			Various	
Blackbird	4240	2			Diplopoda	
Woodpigeon	2990	1				
Collared Dove	3020	1				

contd. over

contd. over

contd. over

contd. over

contd. over

contd. over

RAILWAY SITE OF BIOLOGICAL INTEREST

(Section 1)

SITE NAME Daisy Hill

Map Ref SD660048 Data bank ref

NCC Region North West

County Greater Manchester

Internal ref R148

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI	
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - Random Survey Site.

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Damp and dry acid grassland of upland type, some disturbed
)
Geological) area and station.

RAILWAY REGION LMR DIVISION Manchester

AREA —

Address of Area Civil Engrs Office T.J. Green (D.C.E.)

Telephone number

Rail House
Stone St.
MANCHESTER

Tel. No. 061-228 2141 extn. 2532

Name of railway line Wigan → Manchester.

Access at B5325 bridge over at Station, SD658048

Mileage post 123/4

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
31 st May 1979	B.M. Colahan, R. Stevenson, A J.O. Mountford.	Botanically an interesting site with a northern flora and good calcifuge grassland both damp and dry. Large population of Bubo and good variety of semi-natural habitat in industrial urban area. Not outstanding nationally but much better than almost anything else seen between Preston and Crewe. It is a useful site in its area and this justifies its inclusion. * Recommend it be noted and on examination made of other likely cuttings in the area. They may well provide the only evidence of any significance in some parts, acting as a green corridor.

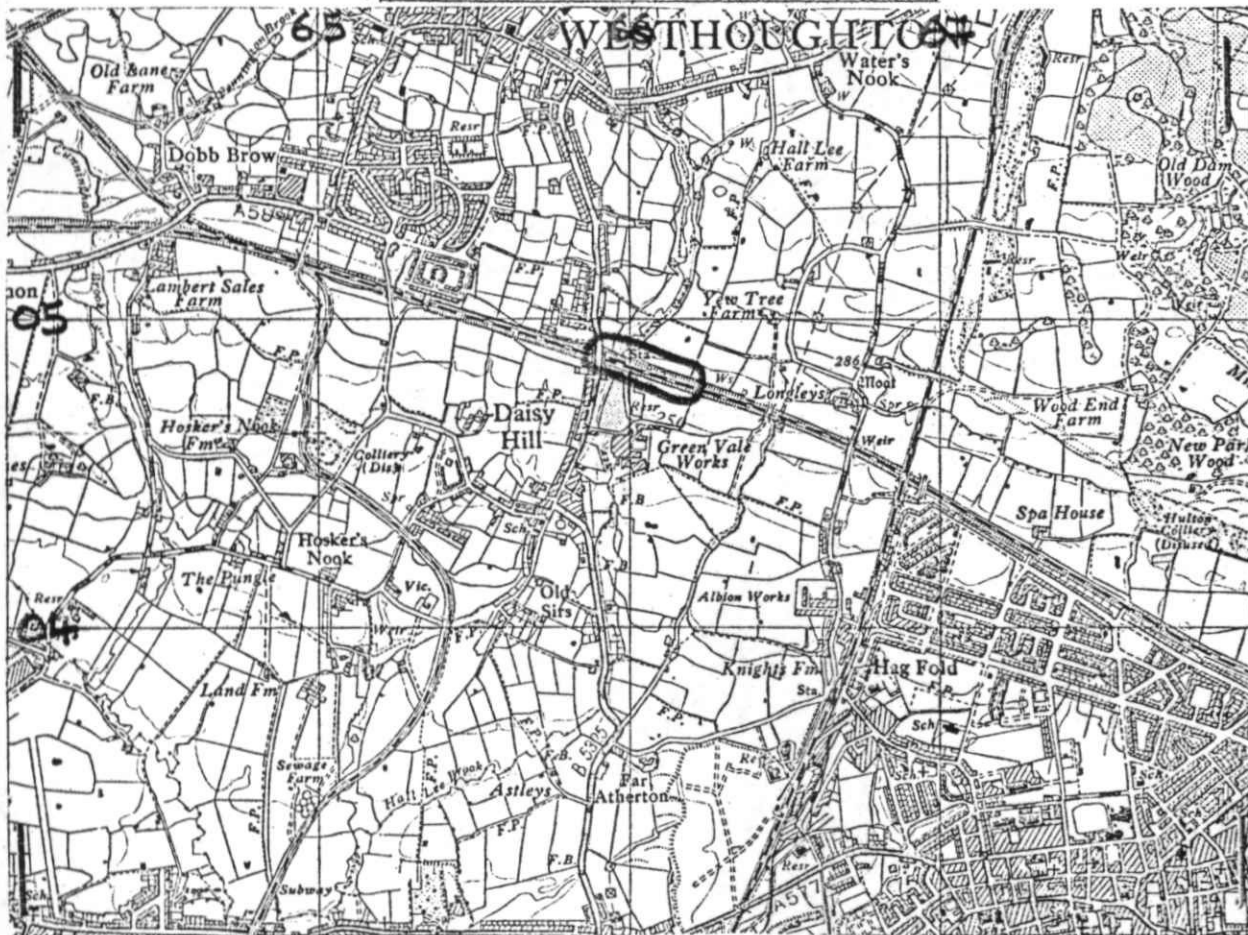
Continue overleaf

FILE OPENED BY ITE, Monks Wood

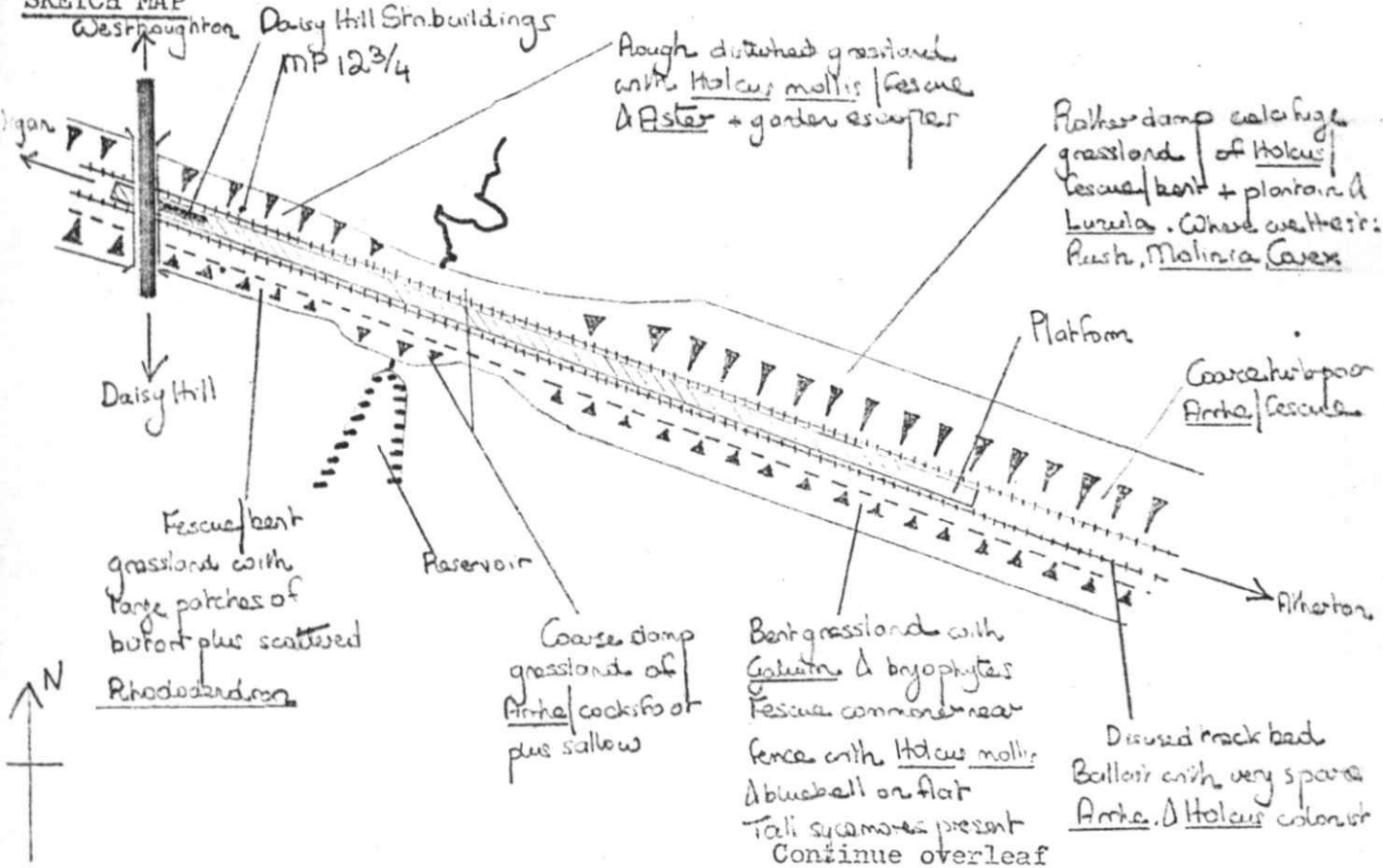
DATE 21st Jan. 1980

LOCATION STATUS

<u>Accurate</u>	Approximate
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SKETCH MAP



SITE NAME Daisy Hill

CDB ref

(Section 3)
Internal ref R148Altitude 240^W → 270^O

Local Geology Glacial Sand & Gravel with line of boulder clay at 40° to line crossing it at Stn.; over Mid. Coal floor

Neighbouring landuses Rough grassland & housing

DIRECTION FROM ACCESS

N (E) W S E W or BOTH

Dist from * access point	0 →	0 →	50 →	100 →	0 →	75 →	100 →	100 →
	200m	50m.	100m.	200m	75m.	100m.	200m.	200m.
Side of track °	S.	S.	S	S	N	N	N.	N
Landform x	Old line	Cut./Flat	Flat./Emb.	Cut./Flat	Cut.	Flat	Cut.	Flat
Aspect-degrees	—	20°	200°	20°	200°	—	200°	—
Width-metres	6m.	6+3m.	→ 8m.	5+6m.	10m.	→ 8m.	10m.	11m.
Disturbance +	S. Ball	M. Ball.	L. Ball.	—	Fire etc.	—	L. Ball.	Fire.

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Large populations of Polygonum bistorta, Good areas of damp acid grassland with Carex demissa, Equisetum sylvaticum, Molinia, etc.

General vegn characteristics and habitat description indicate side of track

A small cutting by the station buildings passing east into low embankment & flat in stream valley and thence into bigger cutting with large associated flats. Right along the South side of the line is an old track bed which has a sparse vegetation of Arrhenatherum with occasional Holcus lanatus and very little else [column 1]. The cutting bank adjacent to the station has large pure patches of Polygonum bistorta covering much of the slope and the narrow flat above. There are however frequent patches of Deschampsia flexuosa and fescue/bent grassland with scattered Rhododendron bushes [column 2]. In the dip above the reservoir is an area of coarse Arrhenatherum/cocksfoot grassland with frequent bistorta plus hawthorn and willow and a number of less calcifuge spp. [column 3]. The cutting further east has a slope of bent grassland with Galium saxatile and acrocarpous mosses in patches; this gives way on the upper slope to mixed fescue turf and on the flat by the fence Holcus mollis is dominant with bistorta and Endymion. There are a number of tall sycamore bushes near the W end of the cutting. [column 4]. The cutting slope on the North side by the station is disturbed by dumping below and burning near the fence. The resultant patchy vegetation is rich in garden escapes especially Aster which grows with the Arrhenatherum/fescue near the line and the Holcus mollis by the fence. [column 5]. The flat to the east has a similar vegetation to that on the South side with buttercup, Alchemilla, and considerable shade from oaks etc on the neighbouring land. [column 6]. The slope of the cutting further east has a poor coarse Arrhenatherum/fescue with much litter, Endymion and occasional low sycamores. The lower edge by the line is shored up by stonework [column 7]. Finally the broad flat above has mixed calcifuge grassland of Holcus mollis/fescue/bent with good patches of plantain & Luzula multiflora. Fairly damp with much Equisetum sylvaticum and Carex demissa, Molinia & Juncus in depressions. Near the fence it has been burnt and has bistorta & Brachy syl. [column 8]

PREFERRED MANAGEMENT

Some grazing does occur, more might help on the cutting. Otherwise none needed in the immediate future.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

Ballast & cinder have been dumped on much of the lower slopes with concrete rubble also by the station [column 5]. Sporadic burning has occurred in the past near the fence on the north side - there being little litter and some ditches etc.

31.5.79 dom.

Continue overleaf

Additional Species
CODE NAME

001	Acro	mult	0874	virid	185	rufe	269	osmu	363	myur	460	Pleu	546	681	Adel	790	Leio	883	laev
002	Acro	curt	0875	argu	186	schr	272	rufu	364	stri	461	subu	547	682	Anas	791	bade	884	plon
003	Acro	giga	0876	lana	187	squa	274	taxi	365	Lept	462	Pleu	548	683	Anas	792	musl	885	plat
004	Acro	gisp	0877	lana	188	subu	275	vari	366	Lept	463	Pleu	549	684	Anas	793	turb	886	thuj
005	Acro	sarm	0878	bico	189	vari	276	Font	367	Lept	464	Pleu	550	685	Anas	794	cavi	887	quad
006	Acro	stri	0879	cuca	190	aspe	277	anti	368	Lept	465	Pleu	551	686	Anas	795	Leje	888	Pull
007	Acro	stri	0880	cuca	191	aspe	278	anti	369	Lept	466	Pleu	552	687	Anas	796	Leje	889	quid
008	Acro	stri	0881	cuca	192	aspe	279	anti	370	Lept	467	Pleu	553	688	Anas	797	Leje	890	quid
009	Acro	stri	0882	cuca	193	aspe	280	anti	371	Lept	468	Pleu	554	689	Anas	798	Leje	891	quid
010	Acro	stri	0883	cuca	194	aspe	281	anti	372	Lept	469	Pleu	555	690	Anas	799	Leje	892	quid
011	Acro	stri	0884	cuca	195	aspe	282	anti	373	Lept	470	Pleu	556	691	Anas	800	Leje	893	quid
012	Acro	stri	0885	cuca	196	aspe	283	anti	374	Lept	471	Pleu	557	692	Anas	801	Leje	894	quid
013	Acro	stri	0886	cuca	197	aspe	284	anti	375	Lept	472	Pleu	558	693	Anas	802	Leje	895	quid
014	Acro	stri	0887	cuca	198	aspe	285	anti	376	Lept	473	Pleu	559	694	Anas	803	Leje	896	quid
015	Acro	stri	0888	cuca	199	aspe	286	anti	377	Lept	474	Pleu	560	695	Anas	804	Leje	897	quid
016	Acro	stri	0889	cuca	200	aspe	287	anti	378	Lept	475	Pleu	561	696	Anas	805	Leje	898	quid
017	Acro	stri	0890	cuca	201	aspe	288	anti	379	Lept	476	Pleu	562	697	Anas	806	Leje	899	quid
018	Acro	stri	0891	cuca	202	aspe	289	anti	380	Lept	477	Pleu	563	698	Anas	807	Leje	900	quid
019	Acro	stri	0892	cuca	203	aspe	290	anti	381	Lept	478	Pleu	564	699	Anas	808	Leje	901	quid
020	Acro	stri	0893	cuca	204	aspe	291	anti	382	Lept	479	Pleu	565	700	Anas	809	Leje	902	quid
021	Acro	stri	0894	cuca	205	aspe	292	anti	383	Lept	480	Pleu	566	701	Anas	810	Leje	903	quid
022	Acro	stri	0895	cuca	206	aspe	293	anti	384	Lept	481	Pleu	567	702	Anas	811	Leje	904	quid
023	Acro	stri	0896	cuca	207	aspe	294	anti	385	Lept	482	Pleu	568	703	Anas	812	Leje	905	quid
024	Acro	stri	0897	cuca	208	aspe	295	anti	386	Lept	483	Pleu	569	704	Anas	813	Leje	906	quid
025	Acro	stri	0898	cuca	209	aspe	296	anti	387	Lept	484	Pleu	570	705	Anas	814	Leje	907	quid
026	Acro	stri	0899	cuca	210	aspe	297	anti	388	Lept	485	Pleu	571	706	Anas	815	Leje	908	quid
027	Acro	stri	0900	cuca	211	aspe	298	anti	389	Lept	486	Pleu	572	707	Anas	816	Leje	909	quid
028	Acro	stri	0901	cuca	212	aspe	299	anti	390	Lept	487	Pleu	573	708	Anas	817	Leje	910	quid
029	Acro	stri	0902	cuca	213	aspe	300	anti	391	Lept	488	Pleu	574	709	Anas	818	Leje	911	quid
030	Acro	stri	0903	cuca	214	aspe	301	anti	392	Lept	489	Pleu	575	710	Anas	819	Leje	912	quid
031	Acro	stri	0904	cuca	215	aspe	302	anti	393	Lept	490	Pleu	576	711	Anas	820	Leje	913	quid
032	Acro	stri	0905	cuca	216	aspe	303	anti	394	Lept	491	Pleu	577	712	Anas	821	Leje	914	quid
033	Acro	stri	0906	cuca	217	aspe	304	anti	395	Lept	492	Pleu	578	713	Anas	822	Leje	915	quid
034	Acro	stri	0907	cuca	218	aspe	305	anti	396	Lept	493	Pleu	579	714	Anas	823	Leje	916	quid
035	Acro	stri	0908	cuca	219	aspe	306	anti	397	Lept	494	Pleu	580	715	Anas	824	Leje	917	quid
036	Acro	stri	0909	cuca	220	aspe	307	anti	398	Lept	495	Pleu	581	716	Anas	825	Leje	918	quid
037	Acro	stri	0910	cuca	221	aspe	308	anti	399	Lept	496	Pleu	582	717	Anas	826	Leje	919	quid
038	Acro	stri	0911	cuca	222	aspe	309	anti	400	Lept	497	Pleu	583	718	Anas	827	Leje	920	quid
039	Acro	stri	0912	cuca	223	aspe	310	anti	401	Lept	498	Pleu	584	719	Anas	828	Leje	921	quid
040	Acro	stri	0913	cuca	224	aspe	311	anti	402	Lept	499	Pleu	585	720	Anas	829	Leje	922	quid
041	Acro	stri	0914	cuca	225	aspe	312	anti	403	Lept	500	Pleu	586	721	Anas	830	Leje	923	quid
042	Acro	stri	0915	cuca	226	aspe	313	anti	404	Lept	501	Pleu	587	722	Anas	831	Leje	924	quid
043	Acro	stri	0916	cuca	227	aspe	314	anti	405	Lept	502	Pleu	588	723	Anas	832	Leje	925	quid
044	Acro	stri	0917	cuca	228	aspe	315	anti	406	Lept	503	Pleu	589	724	Anas	833	Leje	926	quid
045	Acro	stri	0918	cuca	229	aspe	316	anti	407	Lept	504	Pleu	590	725	Anas	834	Leje	927	quid
046	Acro	stri	0919	cuca	230	aspe	317	anti	408	Lept	505	Pleu	591	726	Anas	835	Leje	928	quid
047	Acro	stri	0920	cuca	231	aspe	318	anti	409	Lept	506	Pleu	592	727	Anas	836	Leje	929	quid
048	Acro	stri	0921	cuca	232	aspe	319	anti	410	Lept	507	Pleu	593	728	Anas	837	Leje	930	quid
049	Acro	stri	0922	cuca	233	aspe	320	anti	411	Lept	508	Pleu	594	729	Anas	838	Leje	931	quid
050	Acro	stri	0923	cuca	234	aspe	321	anti	412	Lept	509	Pleu	595	730	Anas	839	Leje	932	quid
051	Acro	stri	0924	cuca	235	aspe	322	anti	413	Lept	510	Pleu	596	731	Anas	840	Leje	933	quid
052	Acro	stri	0925	cuca	236	aspe	323	anti	414	Lept	511	Pleu	597	732	Anas	841	Leje	934	quid
053	Acro	stri	0926	cuca	237	aspe	324	anti	415	Lept	512	Pleu	598	733	Anas	842	Leje	935	quid
054	Acro	stri	0927	cuca	238	aspe	325	anti	416	Lept	513	Pleu	599	734	Anas	843	Leje	936	quid
055	Acro	stri	0928	cuca	239	aspe	326	anti	417	Lept	514	Pleu	600	735	Anas	844	Leje	937	quid
056	Acro	stri	0929	cuca	240	aspe	327	anti	418	Lept	515	Pleu	601	736	Anas	845	Leje	938	quid
057	Acro	stri	0930	cuca	241	aspe	328	anti	419	Lept	516	Pleu	602	737	Anas	846	Leje	939	quid
058	Acro	stri	0931	cuca	242	aspe	329	anti	420	Lept	517	Pleu	603	738	Anas	847	Leje	940	quid
059	Acro	stri	0932	cuca	243	aspe	330	anti	421	Lept	518	Pleu	604	739	Anas	848	Leje	941	quid
060	Acro	stri	0933	cuca	244	aspe	331	anti	422	Lept	519	Pleu	605	740	Anas	849	Leje	942	quid
061	Acro	stri	0934	cuca	245	aspe	332	anti	423	Lept	520	Pleu	606	741	Anas	850	Leje	943	quid
062	Acro	stri	0935	cuca	246	aspe	333	anti	424	Lept	521	Pleu	607	742	Anas	851	Leje	944	quid
063	Acro	stri	0936	cuca	247	aspe	334	anti	425	Lept	522	Pleu	608	743	Anas	852	Leje	945	quid
064	Acro	stri	0937	cuca	248	aspe	335	anti	426	Lept	523	Pleu	609	744	Anas	853	Leje	946	quid
065	Acro	stri	0938	cuca	249	aspe	336	anti	427	Lept	524	Pleu	610	745	Anas	854	Leje	947	quid
066	Acro	stri	0939	cuca	250	aspe	337	anti	428	Lept	525	Pleu	611	746	Anas	855	Leje	948	quid
067	Acro	stri	0940	cuca	251	aspe	338	anti	429	Lept	526	Pleu	612	747	Anas	856	Leje	949	quid
068	Acro	stri	0941	cuca	252	aspe	339	anti	430	Lept	527	Pleu	613	748	Anas	857	Leje	950	quid
069	Acro	stri	0942	cuca	253	aspe	340	anti	431	Lept	528	Pleu	614	749	Anas	858	Leje	951	quid
070	Acro	stri	0943	cuca	254	aspe	341	anti	432	Lept	529	Pleu	615	750	Anas	859	Leje	952	quid
071	Acro	stri	0944	cuca	255	aspe	342	anti	433	Lept	530	Pleu	616	751	Anas	860	Leje	953	quid
072	Acro	stri	0945	cuca	256	aspe	343	anti	434	Lept	531	Pleu	617	752	Anas	861	Leje	954	quid
073	Acro	stri	0946	cuca	257	aspe	344	anti	435	Lept	532	Pleu	618	753	Anas	862	Leje	955	quid
074	Acro	stri	0947	cuca	258	aspe	345	anti	436	Lept	533	Pleu	619	754	Anas	863	Leje	956	quid
075	Acro	stri	0948	cuca	259	aspe	346	anti	437	Lept	534	Pleu	620	755	Anas	864	Leje	957	quid
076	Acro	stri	0949	cuca	260	aspe	347	anti	438	Lept	535	Pleu	621	756	Anas	865	Leje	958	quid
077	Acro	stri	0950	cuca	261	aspe	348	anti	439	Lept	536	Pleu	622	757	Anas	866	Leje	959	quid
078	Acro	stri	0951	cuca	262	aspe	349	anti	440	Lept	537	Pleu	623	758	Anas	867	Leje	960	quid
079	Acro	stri	0952	cuca	263	aspe	350	anti											

FINAL RECORD	REGN. LMA	DIVN. MAN	AREA	SITE R148
SITE NAME Daisy Hill	RECORDER B.M. Carleton	WEATHER Overcast and cool with moderate breeze, drizzle began at 12.15		LANDFORM ① 2 3 4 ⑤ 6 7 At AP and to E are two cuttings, the latter with broad flats above on both sides. An old track bed on the Sn. side, and short embankment in stream valley.
M.P. 12 3/4	TIPPING Some ballast on cut. by ARP old track bed		DATE 31.5.79	TIME 0950 → 1230
COUNTY Gr. Manchester	N.L.U. Rough grassland.			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	10	700	Two cuttings with damp and dry calcifuge grassland - some lowland with spp. typical of local heath but much of it covers esp. in dip where scrub is common. Old line with disturbed ground by etc. with bistort and garden escapes. Rather poor in terms of cover and more open to disturbance due to proximity of station & houses. The site does provide a good expanse of open sp-rich grassland however and it is still considerably less disturbed than the neighbouring land. Weather poor	Birds (small)	2	2	2
1	3	25	707		Birds (large)	1	1	1
1	6	50	703		Mamm. (small)	3	2	2
6	5	10	703		Mamm. (large)	2	1	1
6	9	5	703		Other verts.	.	2	1
					Lepidoptera	2	.	2
					Other insects	2	2	2
					Other inverts.	2	2	2

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Sparrow	3610	2	Common Frog	1	Various: Aligochaste worms Gastropoda	2
House Martin	3640	2	Rabbit	2		2
Blackbird	4240	1				
Starling	5180	2				
House Sparrow	5250	1				
contd. over			contd. over		contd. over	
Cuckoo	3040	1				
contd. over			contd. over		contd. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Ainsdale Dunes

Map Ref SD29.10. etc Data bank ref

NCC Region North West

County Merseyside

Internal ref B133

STATUS

Part of	<u>Adjacent to</u>	<u>NMR</u>	PNNR	LNR	SSSI	<u>BAC files.</u>
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Stabilised dune grassland
)
Geological)

RAILWAY REGION LMA DIVISION Liverpool AREA -

Address of Area Civil Engrs Office P.J. White (D.C.E.)

Telephone number

Rail House
Lord Nelson St.
LIVERPOOL

Tel. No. 051-709.8292 extn. 2600

Name of railway line Liverpool -> Southport

Access at Footpath & track level crossing SD292091

Mileage post 13 1/4 -> 14

NOTIFICATION

	With whom	By whom	Date	Ref.
Site notified to BR				
Management agreement (see section 3 for detail)				

VISITS

Date	By whom	Assessment/Action
<u>3rd June 1979</u>	<u>Dr. C.M. Sargent,</u> <u>B.M. Carleton &</u> <u>J.O. Mountford.</u>	<u>Rather narrow and essentially a continuation of the nearby sandy grassland on the reserve. There are a number of good local plants on BR but these are also present on the reserve often in greater numbers. It performs a valuable boundary function preventing encroachment from development to the East and is a good site for plants in the BR context</u> <u>*Note and monitor effect of rail land on the NNR. The site is so narrow that undue broadcast spraying could affect the reserve and some co-operation is needed at least in this problem.</u>

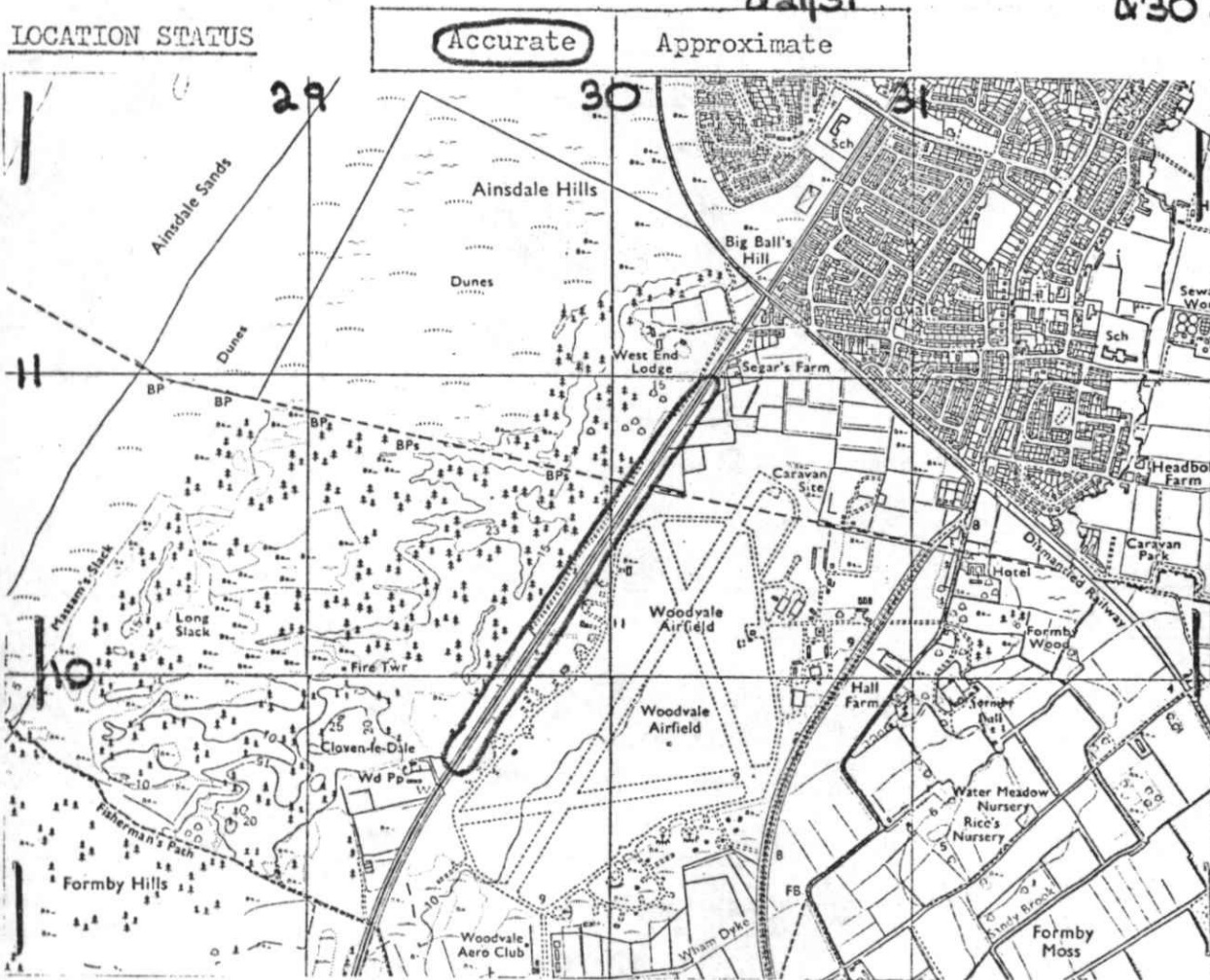
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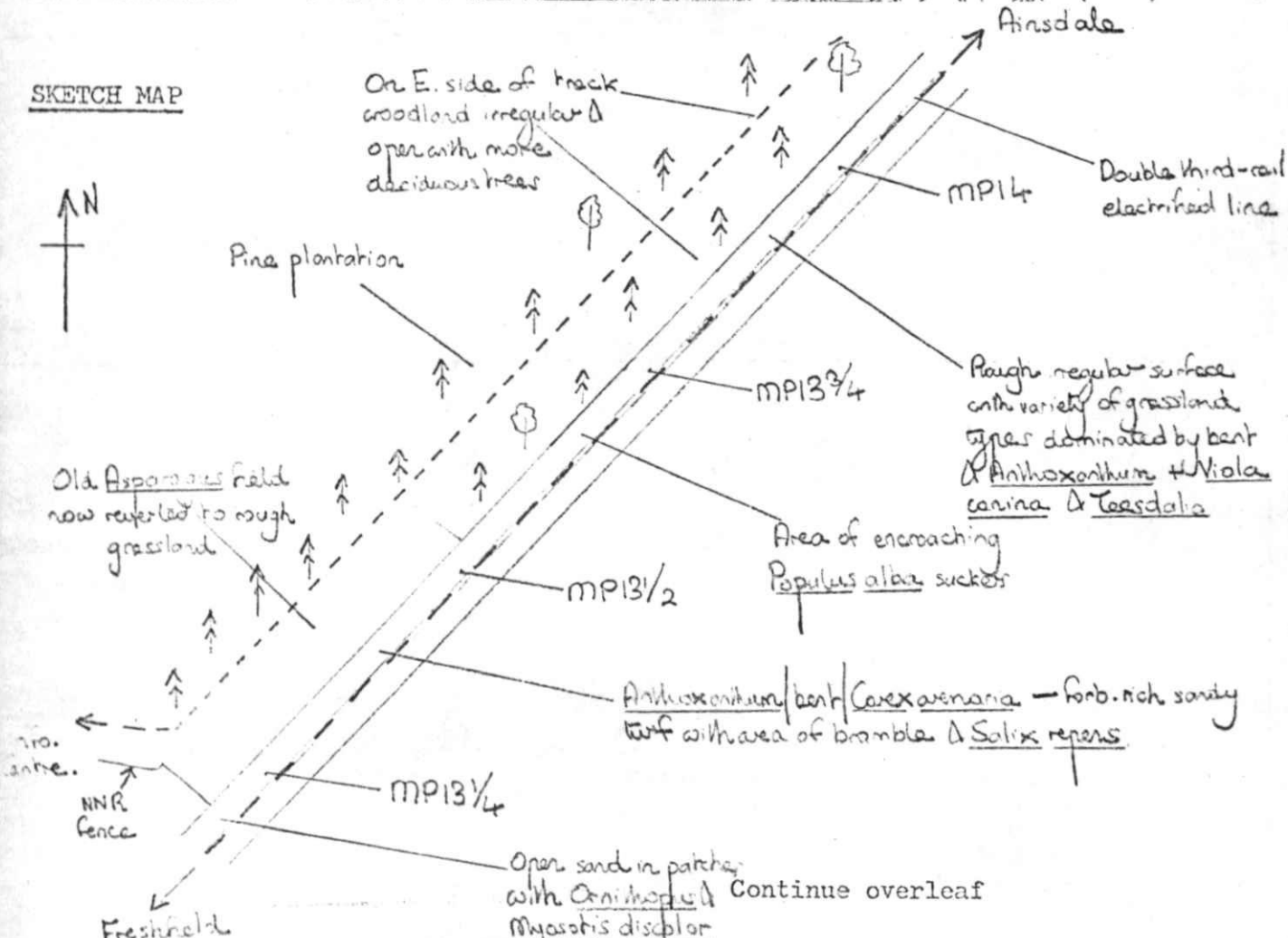
ITE, Monks Wood

DATE 9th January 1980

LOCATION STATUS



SKETCH MAP



Altitude 35' → 45'Local Geology Blown Sand.Neighbouring landuses Airfield; rough grassland and mixed conifer woodland of NNR

DIRECTION FROM ACCESS

(N)	(E)	W	S	E	W	or	BOTH
-----	-----	---	---	---	---	----	------

Dist from * access point	<u>500 →</u> <u>1600m.</u>	<u>1600 →</u> <u>2200m.</u>	<u>600 →</u> <u>1400m.</u>	<u>1200m.</u>				
Side of track °	<u>NW</u>	<u>NW</u>	<u>NW</u>	<u>NW</u>				
Landform x	<u>Flat</u>	<u>Unger Flat</u>	<u>Flat</u>	<u>Flat</u>				
Aspect-degrees	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>				
Width-metres	<u>5m.</u>	<u>5m.</u>	<u>1m.</u>	<u>5m.</u>				
Disturbance +	<u>L.Cind.</u>	<u>—</u>	<u>Rabbit</u>	<u>—</u>				

- * If site is both sides of access point, precede distance by cardinal point
- ° Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

Ground stabilized dune turf with the following more local spp.:
Viola canina, Teucladia & Vicia lathyroides.

General vegn characteristics and habitat description indicate side of track

Only the side by the NNR examined: a narrow generally flat strip. The major vegetation type is a rather short forb-rich grassland of Anthoxanthum, Agrostis tenuis and Carex acuticarpa with Arrhenatherum & Festuca rubra locally important, as well as Holcus lanatus. The commonest forbs are Ononis repens, Galium verum, Rumex acetosa, Plantago lanceolata, Lotus etc.; and there are occasionally rather extensive patches of Salix repens sp. argentea and Rubus. [column 1]. In the northern part the grassland is subject to more flips and rises and has Ammophila occasionally present as well as Arrhenatherum commoner than in the south. There are locally good populations of Teucladia and Viola s. canina and the herb-cover generally is coarser with clars notably commoner [column 2]. Where rabbits have been active exposing the sand or soil the grassland has a rich population of ephemerals with ants contributing occasional elevated hills. Muscoti discolor and Omithopus are especially characteristic but Aira, Vicia lathyroides, Erodium, Arrhenatherum, Cerastium, Arabidopsis and Aphanes are all abundant in some parts. [column 3]. There are few bushes of any size on BR but at one point where a few large Populus alba grow on the reserve there is a thicket of large suckers extending onto the railway verge. [column 4].

PREFERRED MANAGEMENT

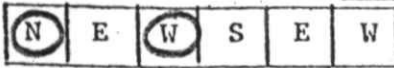
No broadscale spraying and some scrub removal where necessary.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None.

form 3.6.79.

Continue overleaf



ADDITIONAL SPECIES	NAME	CODE
	<i>Ammophila arenaria</i>	97
	<i>Aphakus on s.s.</i>	132
	<i>Alabiopsis Thal.</i>	142
	<i>Arenaria ssp.s.</i>	162
	<i>Carex arenaria</i>	344
	<i>Oenothera alyth.</i>	1371
	<i>Populus alba</i>	1549
	<i>Rubus acaes.s.</i>	1736
	<i>Salix rep. ssp.og</i>	1798
	<i>Hieracium sp.</i>	1828
	<i>Teesdalia radice.</i>	2041
	<i>Valerianella locusta</i>	2145
	<i>Vicia sativa nigra</i>	2186
	<i>Vicia lathyroides</i>	2194
	<i>Viola c. china</i>	2207

BRYOPHYTES

DATE 3.6.79

RECORDER CMSargent.

Additional Species
NAME
CODE

001	Acou	multi	0874	vfr	185	rufe	269	osmu	363	myur	460	Pleu	546	pauc	681	Adel	790	Leio	883	laev
003	Acro	cusp	089	arge	186	schr	272	rufu	364	stiri	461	subu	347	pusti	683	Anas	791	bade	884	plon
004	Acro	plon	0891	erge	187	squa	274	taxi	365	Lept	462	scua	348	recu	684	Anas	794	baul	885	plat
005	giga	0892	lana	188	subu	275	viri	taxi	366	Lept	463	scua	349	trif	685	Anth	796	turb	886	thui
006	sarm	0893	bico	189	vari	276	anti	Font	367	Lept	464	Pohl	551	Sema	686	Anth	797	cavi	887	quad
007	sira	091	caes	190	aspe	276/1	caes	Font	368	Lept	465	albi	554	nova	689	laev	801	lana	888	Ptil
008	Albi	091	capa	191	dena	276/2	grac	grac	369	Lesk	466	annot	554	Spha	690	punc	801/2	lana	889	Ptil
009	Albi	091	capa	192	dena	276/3	grac	grac	370	Lesk	467	annot	555	comp	691	Alpha	802	lana	890	Radu
010	amb	096	capa	193	dena	276/4	grac	grac	371	Lesk	468	annot	556	comp	692	Barb	803	paie	891	aqui
011	amb	096	capa	194	dena	276/5	grac	grac	372	Leuc	469	annot	557	fimb	693	Barb	804	paie	892	aqui
012	amb	097	capa	195	dena	276/6	grac	grac	373	Leuc	470	annot	558	fimb	694	Barb	805	paie	893	lind
013	Ambi	deaf	100	incl	196	bony	biyt	biyt	374	Meas	471	drum	559	fusc	695	barb	806	paie	894	lind
014	Ambi	conf	100	incl	197	bony	biyt	biyt	375	Mnia	472	drum	560	fusc	696	barb	807	paie	895	Rebo
015	Ambi	spru	105	incl	199	biyt	biyt	biyt	376	Mnia	473	drum	561	fusc	697	barb	808	paie	896	Rebo
016	Ambi	comp	107	incl	200	biyt	biyt	biyt	377	Mnia	474	drum	562	fusc	698	barb	809	paie	897	Rloc
019	serp	110	comp	107	incl	200	biyt	biyt	378	horn	475	drum	563	mase	699	barb	810	paie	898	lind
020	serp	111	comp	107	incl	200	biyt	biyt	379	horn	476	drum	564	mase	700	Bazz	811	paie	899	lind
021	Amph	lapp	113	pend	203	palet	palet	palet	381	long	477	drum	565	mase	701	Bazz	812	paie	900	lind
022	Andr	alpi	121	uig	206	palet	palet	palet	382	long	478	drum	566	mase	702	Bazz	813	paie	901	lind
023	Andr	alpi	122	uig	207	palet	palet	palet	383	long	479	drum	567	mase	703	Bazz	814	paie	902	lind
025	roth	122	uig	208	palet	palet	palet	palet	384	long	480	drum	568	mase	704	Bazz	815	paie	903	lind
026	roth	122	uig	209	palet	palet	palet	palet	385	long	481	drum	569	mase	705	Bazz	816	paie	904	lind
027	Anoe	comp	126	Camp	211	Diph	foli	harr	394	und	486	drum	570	qu	706	Caly	817	paie	905	lind
028	Anom	comp	128	Camp	214	Dist	cap	harr	395	und	487	drum	571	qu	707	Caly	818	paie	906	lind
029	con	129	Camp	215	Ditr	cyli	comp	orbi	401	Neck	488	drum	572	qu	708	Caly	819	paie	907	lind
033	Anom	vitu	133	chry	216	flex	311	pate	402	comp	494	drum	573	qu	709	Caly	820	paie	908	lind
034	Anom	curt	134	prot	222	Drep	adun	retr	405	Octo	495	drum	574	qu	710	Caly	821	paie	909	lind
035	Arch	alie	135	som	222/1	adun	adun	retr	406	Oedi	496	drum	575	qu	711	Caly	822	paie	910	lind
036	Arch	alie	135	som	222/2	adun	adun	retr	407	Oedi	497	drum	576	qu	712	Caly	823	paie	911	lind
038	Arct	fulv	136	stel	223	exan	exan	retr	408	Olig	498	drum	577	qu	713	Caly	824	paie	912	lind
038	Arct	fulv	136	stel	223	exan	exan	retr	409	Olig	499	drum	578	qu	714	Caly	825	paie	913	lind
040	Aula	und	139	flex	224	Arct	fulv	retr	411	Orth	500	drum	579	qu	715	Caly	826	paie	914	lind
041	Aula	und	139	flex	225	Arct	fulv	retr	412	Orth	501	drum	580	qu	716	Caly	827	paie	915	lind
042	Barb	conv	141	frag	226	Arct	fulv	retr	413	Orth	502	drum	581	qu	717	Caly	828	paie	916	lind
043	Barb	conv	141	frag	226/1	Arct	fulv	retr	414	Orth	503	drum	582	qu	718	Caly	829	paie	917	lind
043	Barb	conv	141	frag	226/2	Arct	fulv	retr	415	Orth	504	drum	583	qu	719	Caly	830	paie	918	lind
045	Barb	conv	142	frag	227	Arct	fulv	retr	416	Orth	505	drum	584	qu	720	Caly	831	paie	919	lind
045	Barb	conv	142	frag	227/1	Arct	fulv	retr	417	Orth	506	drum	585	qu	721	Caly	832	paie	920	lind
047	Barb	conv	144	frag	228	Arct	fulv	retr	418	Orth	507	drum	586	qu	722	Caly	833	paie	921	lind
047	Barb	conv	144	frag	228/1	Arct	fulv	retr	419	Orth	508	drum	587	qu	723	Caly	834	paie	922	lind
048	Barb	conv	145	frag	229	Arct	fulv	retr	420	Orth	509	drum	588	qu	724	Caly	835	paie	923	lind
049	Barb	conv	147	frag	231	Arct	fulv	retr	421	Orth	510	drum	589	qu	725	Caly	836	paie	924	lind
051	Cera	purp	148	frag	232	Arct	fulv	retr	422	Orth	511	drum	590	qu	726	Caly	837	paie	925	lind
051	Cera	purp	148	frag	232/1	Arct	fulv	retr	423	Orth	512	drum	591	qu	727	Caly	838	paie	926	lind
051	Cera	purp	148	frag	232/2	Arct	fulv	retr	424	Orth	513	drum	592	qu	728	Caly	839	paie	927	lind
052	Cera	purp	149	frag	233	Arct	fulv	retr	425	Orth	514	drum	593	qu	729	Caly	840	paie	928	lind
053	Cera	purp	150	frag	234	Arct	fulv	retr	426	Orth	515	drum	594	qu	730	Caly	841	paie	929	lind
054	Cera	purp	151	frag	235	Arct	fulv	retr	427	Orth	516	drum	595	qu	731	Caly	842	paie	930	lind
055	Cera	purp	152	frag	236	Arct	fulv	retr	428	Orth	517	drum	596	qu	732	Caly	843	paie	931	lind
056	Cera	purp	153	frag	237	Arct	fulv	retr	429	Orth	518	drum	597	qu	733	Caly	844	paie	932	lind
057	Cera	purp	154	frag	238	Arct	fulv	retr	430	Orth	519	drum	598	qu	734	Caly	845	paie	933	lind
059	Cera	purp	156	frag	239	Arct	fulv	retr	431	Orth	520	drum	599	qu	735	Caly	846	paie	934	lind
060	Cera	purp	157	frag	240	Arct	fulv	retr	432	Orth	521	drum	600	qu	736	Caly	847	paie	935	lind
061	Cera	purp	158	frag	241	Arct	fulv	retr	433	Orth	522	drum	601	qu	737	Caly	848	paie	936	lind
062	Cera	purp	159	frag	242	Arct	fulv	retr	434	Orth	523	drum	602	qu	738	Caly	849	paie	937	lind
063	Cera	purp	160	frag	243	Arct	fulv	retr	435	Orth	524	drum	603	qu	739	Caly	850	paie	938	lind
064	Cera	purp	161	frag	244	Arct	fulv	retr	436	Orth	525	drum	604	qu	740	Caly	851	paie	939	lind
065	Cera	purp	162	frag	245	Arct	fulv	retr	437	Orth	526	drum	605	qu	741	Caly	852	paie	940	lind
066	Cera	purp	163	frag	246	Arct	fulv	retr	438	Orth	527	drum	606	qu	742	Caly	853	paie	941	lind
066	Cera	purp	163	frag	246/1	Arct	fulv	retr	439	Orth	528	drum	607	qu	743	Caly	854	paie	942	lind
066	Cera	purp	163	frag	246/2	Arct	fulv	retr	440	Orth	529	drum	608	qu	744	Caly	855	paie	943	lind
067	Cera	purp	164	frag	247	Arct	fulv	retr	441	Orth	530	drum	609	qu	745	Caly	856	paie	944	lind
068	Cera	purp	165	frag	248	Arct	fulv	retr	442	Orth	531	drum	610	qu	746	Caly	857	paie	945	lind
069	Cera	purp	166	frag	249	Arct	fulv	retr	443	Orth	532	drum	611	qu	747	Caly	858	paie	946	lind
071	Brac	tric	166	frag	251	Arct	fulv	retr	444	Orth	533	drum	612	qu	748	Caly	859	paie	947	lind
072	Brac	tric	167	frag	252	Arct	fulv	retr	445	Orth	534	drum	613	qu	749	Caly	860	paie	948	lind
075	Brac	tric	168	frag	254	Arct	fulv	retr	446	Orth	535	drum	614	qu	750	Caly	861	paie	949	lind
076	Brac	tric	169	frag	255	Arct	fulv	retr	447	Orth	536	drum	615	qu	751	Caly	862	paie	950	lind
076	Brac	tric	169	frag	255/1	Arct	fulv	retr	448	Orth	537	drum	616	qu	752	Caly	863	paie	951	lind
076	Brac	tric	169	frag	255/2	Arct	fulv	retr	449	Orth	538	drum	617	qu	753	Caly	864	paie	952	lind
077	Brac	tric	170	frag	256	Arct	fulv	retr	450	Orth	539	drum	618	qu	754	Caly	865	paie	953	lind
078	Brac	tric	171	frag	257	Arct	fulv	retr	451	Orth	540	drum	619	qu	755	Caly	866	paie	954	lind
078	Brac	tric	171	frag	257/1	Arct	fulv	retr	452	Orth	541	drum	620	qu	756	Caly	867	paie	955	lind
080	Brac	tric	172	frag	260	Arct	fulv	retr	453	Orth	542	drum	621	qu	757	Caly	868	paie	956	lind
082	Brac	tric	180	frag	262	Arct	fulv	retr	454	Orth	543	drum	622	qu	758	Caly	869	paie	957	lind
082	Brac	tric	180	frag	262/1	Arct	fulv	retr	455	Orth	544	drum	623	qu	759	Caly	870	paie	958	lind
084																				

RECORDER	LMA	LIV	B133
SITE NAME	RECORDER	WEATHER	LANDFORM
Ainsdale Dunes	B.M. Carleton	Hot and sunny with little cloud and some wind later.	① 2 3 4 5 6 7
N.P.	TIPPING	DATE	TIME
13 1/4	Moderate local of cinder & ballast.	3.6.79	1630 → 1800
COUNTY	N.L.U.	DATE	TIME
Merseyside	Airfield, rough grass A wood of NNR	3.6.79	1630 → 1800

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	5	700	Narrow verges - flat - covered in stabilised dune grassland, some rather coarse but generally well grazed. Rich in plants but with very little cover and overshadowed by the NNR. It probably supports a good variety of insects etc. but its bird and large animal population is negligible.	Birds (small)	2	2	2
1	2	50	708		Birds (large)	1	1	1
1	6	40	700		Mamm. (small)	3	2	1
					Mamm. (large)	1	1	1
					Other verts.	.	2	2
					Lepidoptera	2	.	2
					Other insects	3	3	3
					Other inverts.	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Sky lark	3570	2	Rabbit	4	Meadow Brown	1
Willow Warbler	4720	1			Common Blue	1
Blackbird	4240	1			Various:	
					Coloptera	2
					Orthoptera	1
					Hymenoptera	1
contd. over			contd. over		contd. over	
Woodpigeon	2990	1				
Robin	4000	1				
contd. over			contd. over		contd. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

(Section 1)

SITE NAME Bidston

Map Ref SJ281906 Data bank ref

NCC Region North West

County Merseyside

Internal ref R160

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI	
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - Random Survey Site.

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	<u>Rare</u>	Very rare	
<u>Animals</u>	Insects	Reptiles	<u>Birds</u>	Mammals	

Habitat) describe - Sallow carr, mixed coarse grassland, marsh, reeds/crag
)
Geological) open pools.

RAILWAY REGION LMR DIVISION Liverpool AREA —

Address of Area Civil Engrs Office P.J. White (D.C.E.)

Telephone number
 Rail House
 Lord Nelson St.
 LIVERPOOL

Tel. No. 051 - 709 8292 extn. 2600

Name of railway line Wallasey → Connaught Quay

Access at Bidston Station at GR SJ281908 Mileage post 0 1/4

NOTIFICATION

Site notified to BR

Management agreement
 (see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

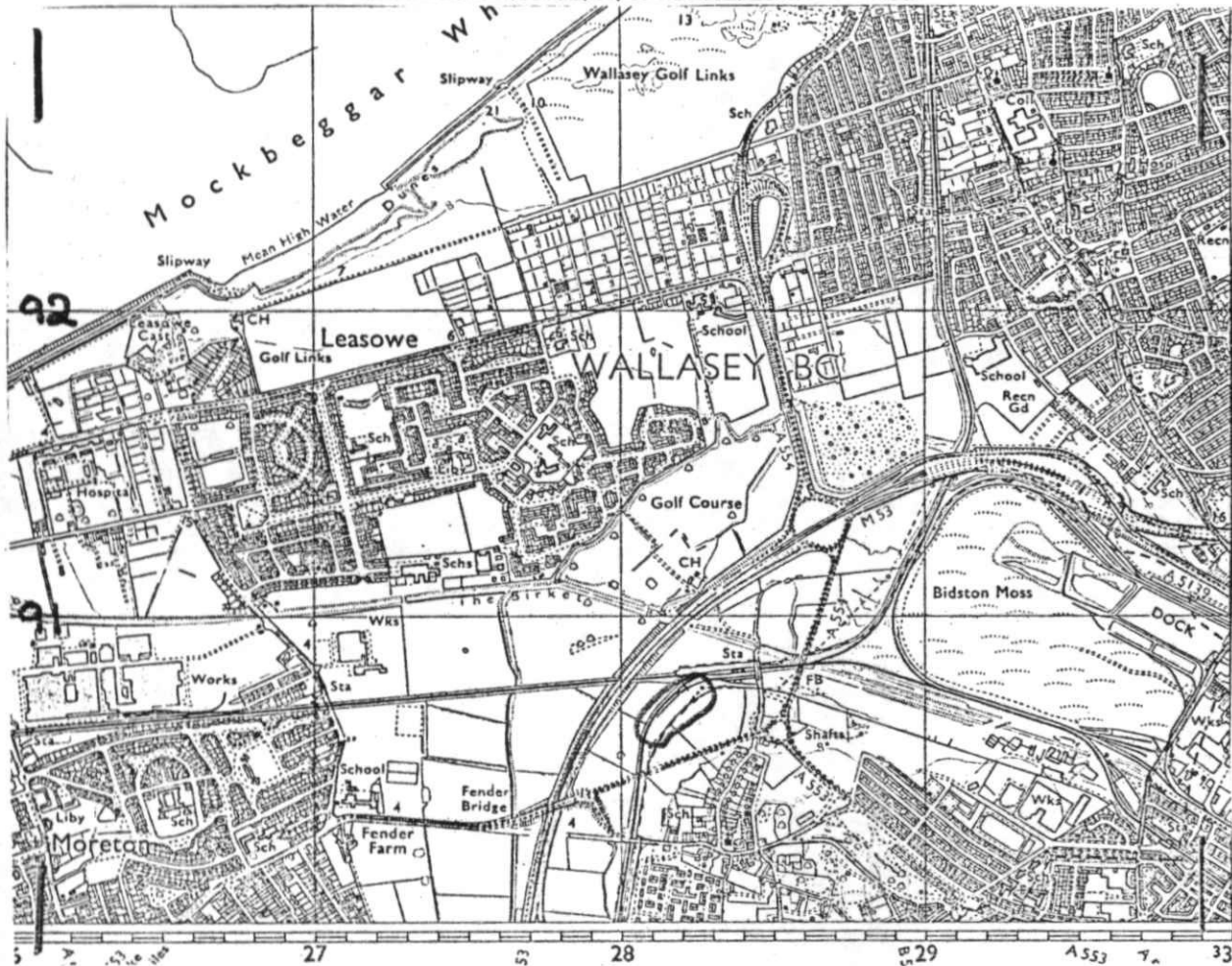
Date	By whom	Assessment/Action
6th June 1979	Dr. C.M. Sargent, B.M. Coulton & J.O. Mountford.	An important site in a very urban area surrounded by housing and motorways. It provides an extensive patch of semi-natural vegetation, generally rather wet with a number of species local or rare in the north-west: <u>Dryopteris carthusiana</u> , <u>Calamagrostis canadensis</u> etc.. The Carr and reeds are a valuable refuge for birds and other animals. * Should be noted and revisited to complete survey in context of local sites. It is by no means good enough to schedule but its position makes up for what it lacks in species richness. The railway land has a decidedly positive effect here.

FILE OPENED BY ITE, Monks Wood

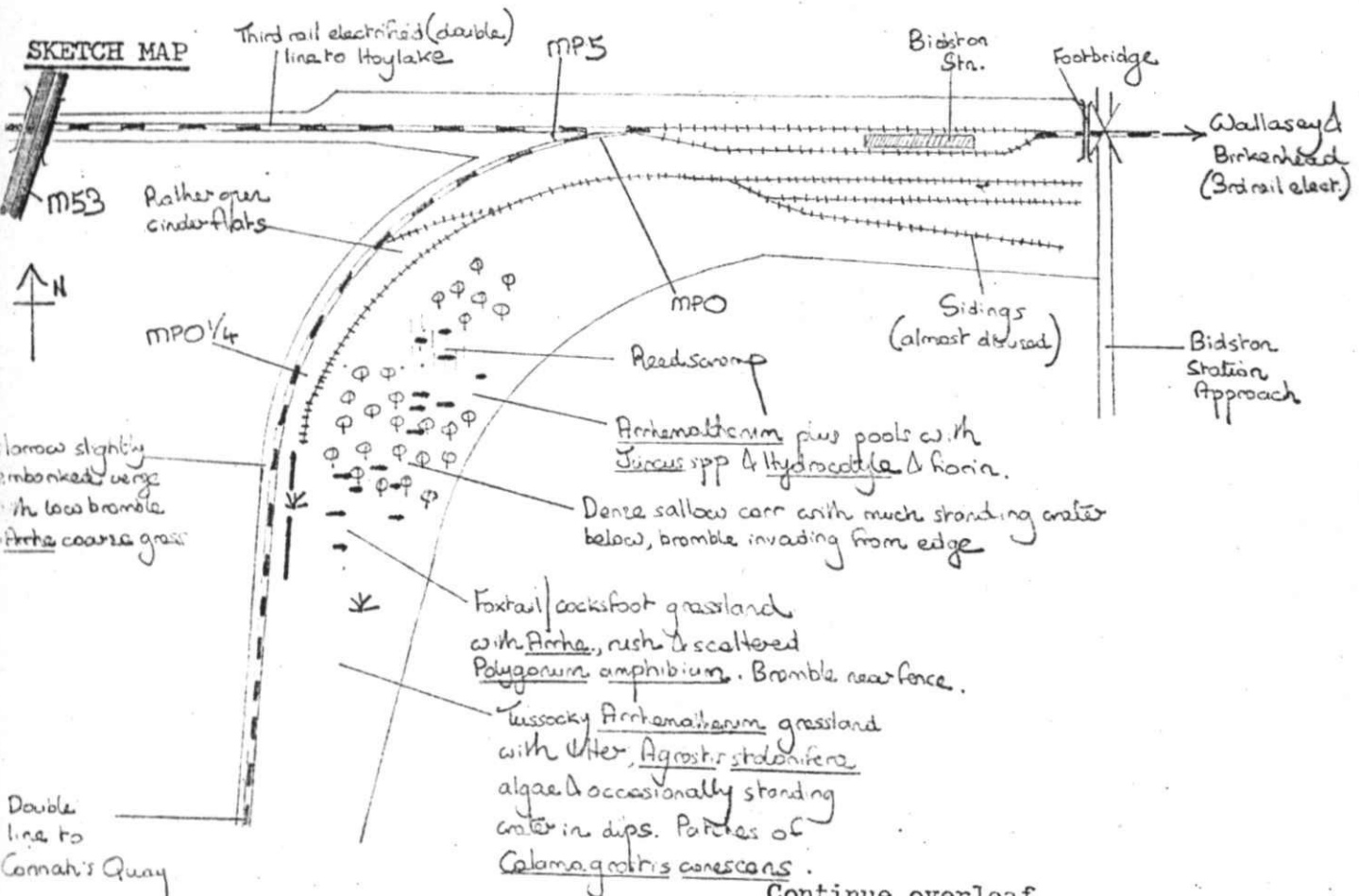
DATE 9th Jan. 1980

LOCATION STATUS

Accurate	Approximate
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SKETCH MAP



Continue overleaf

Altitude 15'

Local Geology Alluvium

Neighbouring Landuses Marshy field, rough grasslands etc. Housing & motorways

DIRECTION FROM ACCESS

N E W S E W or BOTH

Dist from * access point	250 → 700m.	250 → 400m.	250 → 400m.	275 → 325m.	275 → 700m.			
Side of track °	N.A.W.	S.A.E.	SE.	SE.	S.A.E.			
Landform x	V. low Emb.	Flat	Flat	Flat	Flat			
Aspect-degrees	Various	—	—	—	—			
Width-metres	3.5m	10m.	45m.	15m	→50m			
Disturbance +	Mo. Ball.	S. Cind.	—	—	—			

- * If site is both sides of access point, precede distance by cardinal point
 ° Indicate side of track by compass cardinal point
 x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
 + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

Sallow carr and marsh with populations of the local rarities *Colombagrostis conescens* and *Dryopteris carthusiana*. [*Carun carvi* occurs on the new-soon grass verge by Bidston Station Approach].

General vegn characteristics and habitat description indicate side of track

The NW. side of the Connah's Quay line is very narrow and raised slightly above the adjacent fields. The main cover is low bramble thicket with patches of coarse *Arrhenatherum* plus thistle, couch, rattle, brookfoot and moderate ballast & cinder topping [column 1]. The SE. side includes the cinder flats caused by the almost disused siding S. from the Station. There are still very open with *Vicia* spp., horsetail and *Potentilla anatica* sparingly present, and 90% of the cover still bare cinder [column 2]. The main interest lies in the very broad (45 → 50m.) flat often antedged verge between the siding and the fence. There are large areas of dense sallow carr in the middle and northern parts which often shade pools covered in algae with little vascular plant undergrowth. Bramble is invading from the edges and where there is no water litter is continuous. On the edge spp. from the neighbouring marsh penetrate [column 3]. Between the two areas of sallow is a *Phragmites*/*Phalaris* sward with much water in the hollows of the very uneven surface. *Hydrocotyle* and several tall wetland forbs occur as well as a few fronds of *Dryopteris carthusiana* [column 4]. The main cover especially further S is a tussocky *Arrhenatherum* grassland which is markedly herb-Asp-poor. Near the head sward *Hydrocotyle* and *Juncus* spp. occur, the latter especially lining the many pools. *Galeopsis tetrahyta* and *Polygonum amphibium* are also common and in water-filled hollows *Agrastis stolonifera* forms an almost pure bed. South of the carr much the same pattern occurs but there are areas where *Alopecurus pratensis*/*Doctylis* replace the *Arrhenatherum* and more locally patches of *Doctylis coarctata* and *Colombagrostis conescens*. On the drier ground near the line and fence bramble and fescue are common. Litter is very thick between the *Arrhenatherum* tussocks and algae often covers it in damper parts. [column 5]. The adjacent fields are mainly damp *Arrhenatherum* grassland with nothing like the same variety.

PREFERRED MANAGEMENT

A little grazing and cutting back of sallow would help.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None bar dumping & spraying on lines.

form 6.6.79

ANIMAL RECORD	REGN. LMR	DIVN. LIV	AREA -	SITE R160
SITE NAME Bidston	RECORDER B.M. Carleton	WEATHER Fairly cool with much cloud & occasional spots of rain. Some sunny periods. Slight breeze		LANDFORM ① 2 3 4 5 ⑥ 7 One side very narrow with slight emb.. Other very broad with generally marshy veg., some open-water ditches.
N.P. O/4	TIPPING Moderate ballast & cinder close to line	DATE 6.6.79	TIME 0940 → 1210	
COUNTY Merseyside	N.I.U. Rough grassy fields, some wet. Urban gener.			

HABITAT APPRAISAL

A	B	%	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	5	703	There is an extensive flat with a mosaic of coarse grassland, marsh, reeds, scrub sallow carr and open areas. The N. A. W. areas have cinder flats and bramble. This site is a most valuable animal locality forming an island in an otherwise urban area with a dense network of roads & railways nearby. It should be revisited & assessed in the context of Bidston Marsh. The variety of wetland habitat is far better than normally present on B.R. and is certainly good for birds to roost and forage in. The invertebrate life needs study.	Birds (small)	3	3	4
0	6	30	700		Birds (large)	3	2	3
1	6	25	700		Mamm. (small)	2	2	2
2	2	15	700		Mamm. (large)	2	1	1
2	4	5	700		Other verts.	2	3	3
3	4	10	700		Lepidoptera	3	2	2
6	5	10	703		Other insects	3	3	3
					Other inverts.	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Maggie	3720	1	Common Frog	4	Large White	1
Woodpigeon	2990	1	Common Toad	1	Various: Tipulid flies	
Wren	3980	1			Gastropoda.	
Whitethroat	4610	1				
House Sparrow	5250	1				
Mistle Thrush	4320	1				
Sedge Warbler	4500	1				
Reed Bunting	5740	2				

contd. over

contd. over

contd. over

contd. over

contd. over

contd. over

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME **Singnet**

Map Ref **ST342550** Data bank ref

NCC Region **North Wales**

County **Clwyd**

Internal ref **B138**

STATUS

Part of	Adjacent to	NNR	PNNR	LNR	SSSI	
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - **Deduction from O.S. Map.**

INTEREST

Plants	General	Local	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - **Good variety of damp and dry, young and fairly mature deciduous woodland types. Plus scrub, cinder, rough grass & old station**
 Geological)

RAILWAY REGION **LMR** DIVISION **Crewe**

AREA -

Address of Area Civil Engrs Office **W.G. Cutting (D.C.E.)**

Telephone number
**Rail House
 Gresty Rd.
 CREWE.**

Tel. No. 0270 55123 extn. 2914.

Name of railway line **Chester → Wrexham line**

Access at **Path to old station at ST346551**

Mileage post **204 1/2 → 205**

NOTIFICATION

Site notified to BR

Management agreement
 (see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
7th June 1979	Dr. C.M. Sargent, B.M. Carleton & J.O. Mountford.	Excellent site with outstanding woodland flora for British Rail and a good selection of completely naturalised rare aliens. Although the B.R. land is continuous with rather similar vegetation on the Alyn valley slopes above & below the site is so extensive and protected that it deserves noting. * Recommend monitoring and further surveys between Marford and Wrexham to discover extent of valuable areas. Some protection from undue disturbance may be necessary and eventually management in some parts to maintain the current diversity. The possibility of scheduling it is there and should be considered.

Continue overleaf

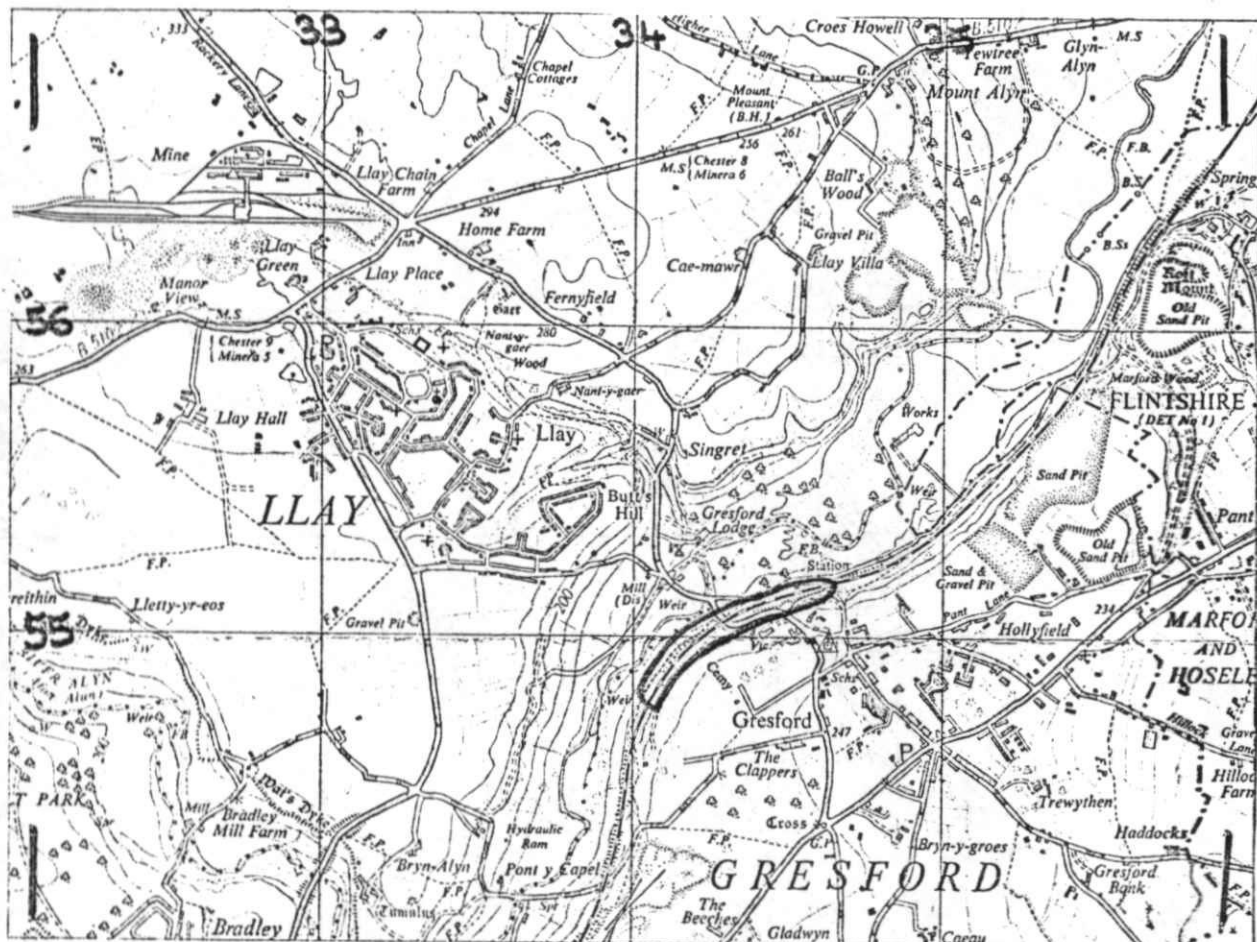
FILE OPENED BY

ITE, Monks Wood

DATE **10th Jan. 1980**

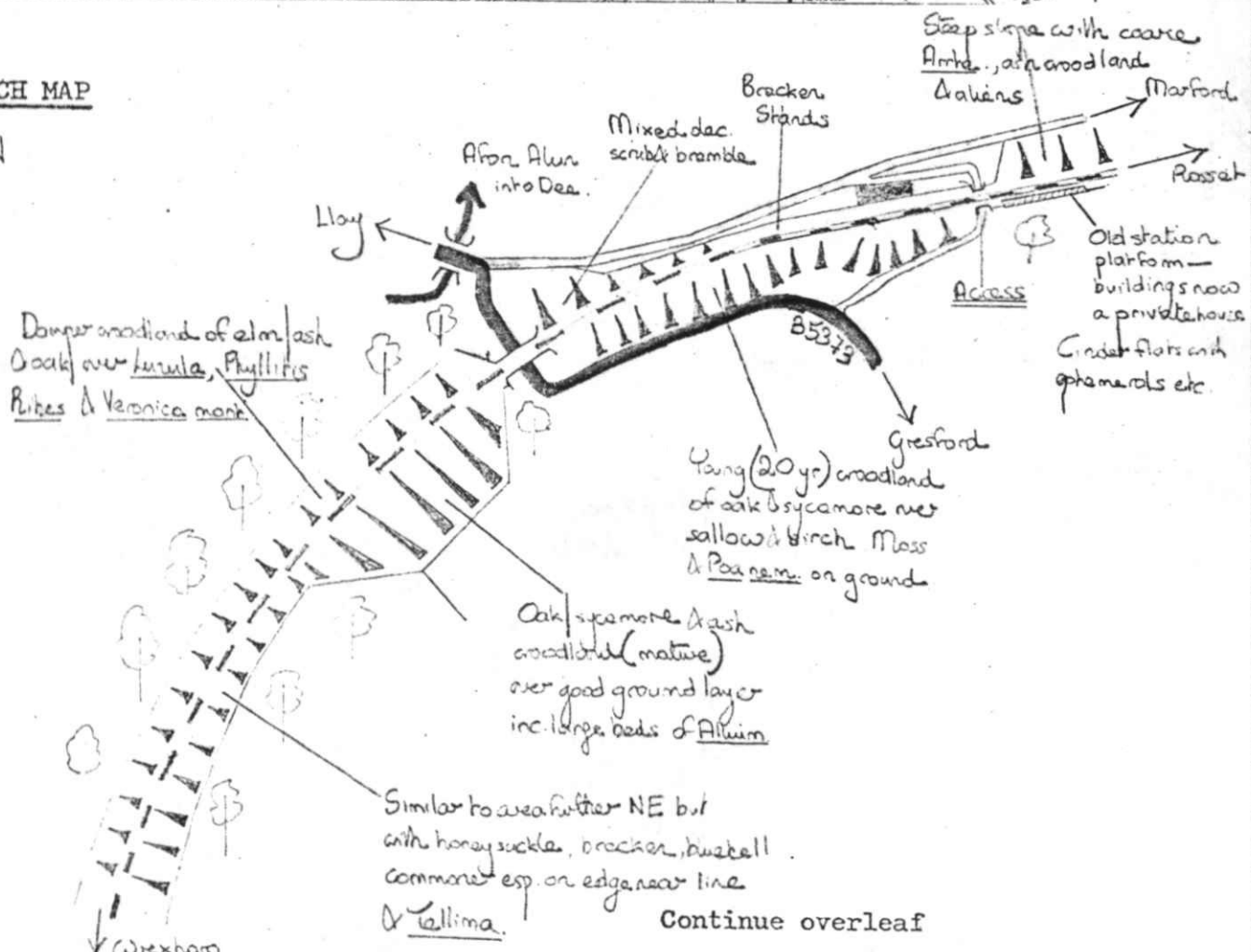
LOCATION STATUS

Accurate	Approximate
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SKETCH MAP

↑ N



SITE NAME Singrat

CDB ref

Internal ref 8138

Altitude 150 → 220

Local Geology

Carboniferous: Upper Coal Measures: Erbistock Beds. Overlaid by Glacial Sand & Gravel, plus some Glacial Silt in W.

Neighbouring landuses Deciduous woodland.

DIRECTION FROM ACCESS



Dist from * access point	E.O → 150m.	E.O → 100m	W.O → 350m	W.O → 350m	W.400 → 550m	W.550 → 1000m.	W.400 → 1000	W.400 → 900m.
Side of track °	N.	S	N	S.	SE.	SE	SE	NW
Landform x	Emb.	Flat	Emb./Flat	Cut./Flat	Cut	Cut	Cut./Flat	Emb.
Aspect-degrees	350°	—	c.340°	c.340°	c.310°	c.300°	c.200°	c.300°
Width-metres	15m	4m	→30m.	→50m.	→40m.	→35m	→10m.	25m
Disturbance +	—	S.Cind.	L.Ball	—	—	—	Clear.	—

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Good woodland with many typical shade spp — a far better ground flora developed than is typical of BR. inc. Milium, Veronica montana, Stellaria neglecta, Ranunculus auricularis, Narcissus, Ribes spp. etc.. Also a number of local or rare plants, of which the first is completely naturalised: Tallima, Symphytum grandiflorum, Polygonum polystachyum. General veg characteristics and habitat description indicate side of track

To the east of the access point is the old station platform and some associated cinder flat with Saxifraga squarrellosa and ephemerals plus Pentaglottis in a open weedy flora [column 2]. The steep emb. opposite is covered in rough secondary woodland of ash & sycamore with some areas of coppice Athyrium grassland, bramble and raspberry. The lower edge by the minor road to Marford has good populations of Tallima, Symphytum grandiflorum and Polygonum polystachyum [column 1]. The embankment to the west of the AP down to the road on the north side has a rather similar vegetation with some areas of thorn and tall herb in the more open area near the bottom and some bracken stands by the line. [column 3]. The irregular slope between the line and the B5373 above has young woodland of sycamore and Quercus petraea, with Q. robur and sallows as a scrub layer. The ground layer is mainly bryophyte covered with a good variety of spp and Poa nemoralis and Silene dioica are significant, with ivy. The upper slope has birch and Castanea [column 4]. There is much more mature woodland on the SE side beyond the Broad bridge dominated by oak & sycamore with ash and sallow as the understorey. The first area is broad and has large carpets of Allium ursinum, as well as Adoxa, Lamium & Galium odoratum among many others. [column 5]. Further S. the bank narrows somewhat though the fence seems to wander up and down the slope for no obvious reason, and the woodland is somewhat drier with more Erdymion, Poa nemoralis & Tallima, in a very rich vascular flora near MP 20 1/2. [column 6]. The lower edge all along here has been cleared partially in the past to leave sallow scrub, bramble, bracken and honeysuckle [column 7]. The slope down from the line here toward the river has denser woodland with elm common in addition to the usual spp. and a less scrubby ground layer with many ferns including Phyllitis, several low Ribes bushes and good stands of broadleaf, Veronica montana, Luzula spp. etc. [column 8].

PREFERRED MANAGEMENT

The woodland is maturing well but will eventually need thinning.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

The woodland E. of the B5373 had very old cut stumps and the growth is consistent with coppicing c.20 yrs. ago. The track edge to the SW has been cut much more recently.

7.6.79 fom.

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME **Graig Fawr**

Map Ref **SJ058804** Data bank ref

NCC Region **North Wales**

County **Clwyd**

Internal ref **B180**

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) -

INTEREST

Plants	General	Local	Rare	Very rare
Animals	Insects	Reptiles	Birds	Mammals

Habitat) describe - Carboniferous limestone rocks, grassland and scrub
) plus colonisation of recently disused line.
Geological) - Reef-knoll of Carb. lime., especially in Station Quad

RAILWAY REGION **LMA** DIVISION **Crewe**

AREA -

Address of Area Civil Engrs Office **W.G. Cutting (D.C.E.)**

Telephone number

**Rail House
Gresty Road
CREWE.**

Tel. No. 0270 55123 extn. 2914

Name of railway line **Dysoth quarry branch (from Prestatyn)**

Access at **Minor rd. bridge under at SJ058801**

Mileage post **c. 2**

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

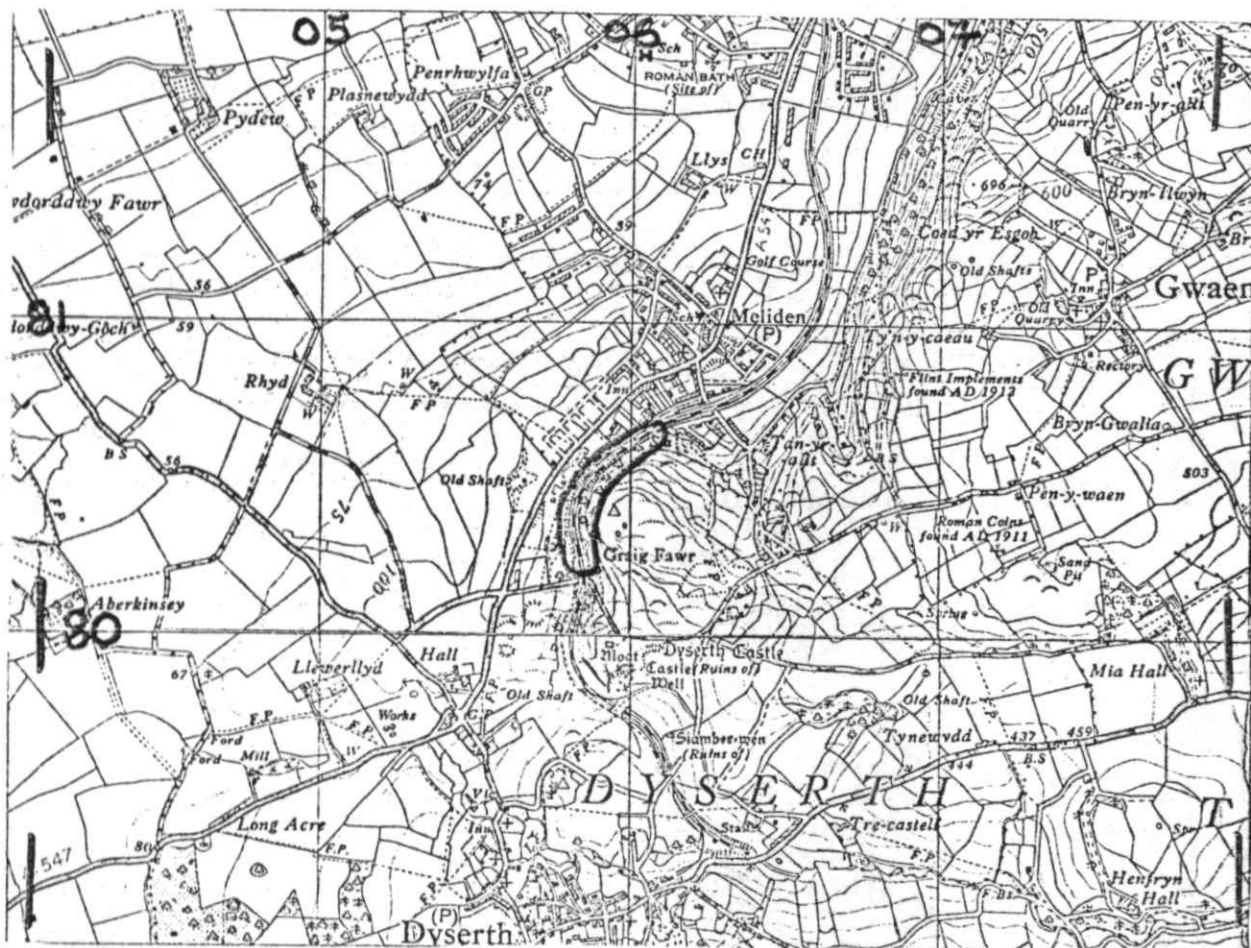
Date	By whom	Assessment/Action
18th June 1979	Dr. C.M. Sargent, B.M. Carlson & J.O. Mountford.	Although apparently abandoned and quite overgrown, the line is according to Mr. C.J. Beagley, still the property of B.A. (C.E.) and the track is being left down. The line is now used largely as a footpath but BR land here includes all the rarities for which the hill is known, and generally in good populations. The SSSI status applied to the hill above should be extended to include BR land. Our survey was brief since we believed it to be completely disturbed and hence a further visit would be necessary to get a complete picture of the flora. Co-operation with BR on management is necessary and with the National Trust over the question of access to the public. <small>continue over leaf</small>

FILE OPENED BY **ITE, Marks Wood**

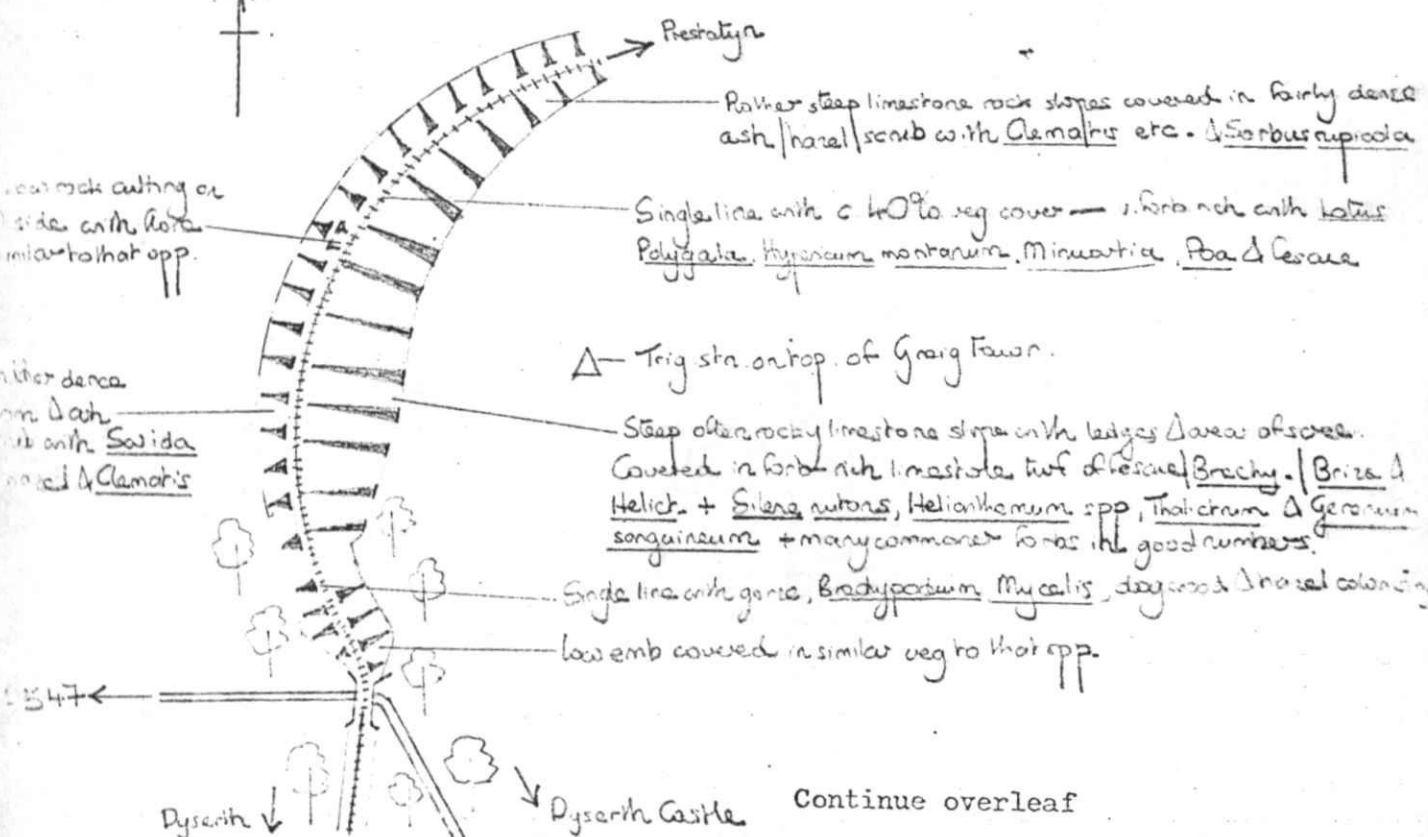
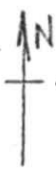
DATE **10th Jan. 1980**

LOCATION STATUS

<u>Accurate</u>	Approximate
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SKETCH MAP



SITE NAME Graig Fawr

CDB ref

(Section 3)
Internal ref B180Altitude 170' → 275'Local Geology Carboniferous Limestone near knoll of Dysoth Group in Dinorthis Series. Boulder Clay W. of lineNeighbouring landuses Housing, deciduous woodland and limestone grassland & rock.

DIRECTION FROM ACCESS

<u>N</u>	<u>E</u>	<u>W</u>	<u>S</u>	<u>E</u>	<u>W</u>	or	<u>BOTH</u>
----------	----------	----------	----------	----------	----------	----	-------------

Dist from * access point	<u>0 →</u> <u>100m.</u>	<u>100 →</u> <u>400m.</u>	<u>0 →</u> <u>250m.</u>	<u>0 →</u> <u>100m</u>	<u>100 →</u> <u>350m.</u>	<u>350 →</u> <u>400m.</u>	<u>c.300m.</u>
Side of track °	<u>On track</u>	<u>itself</u>	<u>W</u>	<u>E</u>	<u>E</u>	<u>E</u>	<u>W</u>
Landform x	<u>Line & edges</u>	<u>Emb.</u>	<u>Emb.</u>	<u>Flat</u>	<u>S. Cut.</u>	<u>S. Cut.</u>	<u>S. Cut.</u>
Aspect-degrees	<u>—</u>	<u>—</u>	<u>270°</u>	<u>90°</u>	<u>270°</u>	<u>270°</u>	<u>90°</u>
Width-metres	<u>5m.</u>	<u>5m.</u>	<u>→20m</u>	<u>→10m</u>	<u>→20m</u>	<u>→15m</u>	<u>4m.</u>
Disturbance +	<u>S. Cind. & Trample</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Good limestone flora including: Silene nutans, Helianthemum caeruleum, Hypericum montanum, Sorbus rupicola, Thalictrum minus, Rubia perigrina, Geranium sanguineum, Minuartia verna & Anacamptis pyramidalis.

General vegn characteristics and habitat description indicate side of track
Single out-geon line going north out of woodland and round the bottom of the hill towards Pystalljn. The track bed itself seems not to have been used for c. 3 years. The southern has dogwood & horsetail encroaching from bank and gone colonising the cinder itself with a good calcicolous shade flora of open grassland: Brachypodium sylvaticum + Myrica, Sonchus etc. [column 1]. The bushes thin out northward on the track to leave an open forb - 'sp-rich' grassland of fescue Poa + Cynosurus Abolium with much Anthyllis and Lotus and good populations of Hypericum montanum and Minuartia verna. The edges are quite well trampled and on the day of our visit many people with their dogs were using it. [column 2]. The embankment on the western side has a soil partly derived from boulder clay and a scrubby vegetation much poorer than that of the cutting. Ash/horsetail plus thorn and dogwood with Clematis and coarser grasses occur. [column 3]. The east side of the embankment is very much shorter and like the SW. end of the latter very influenced by the deciduous woodland adjacent with a horsetail/dogwood scrub over Adoxa, Sonchus & Myrica. [column 4]. This gives way quickly northward to the steep limestone rock slope. As the scrub thins out Rubia is q. common. The cutting slope itself has much bare rock & scree with ledges and grassy areas supporting a very rich limestone flora with rather little woody growth. Fescue Poa plus Brachypodium, Helictotrichum & Brya dominate. Trifolium, Clinopodium, Lotus, Campanula, Thymus, Polygonum and Solidago are common as are Helianthemum caeruleum, H. nummularium, Geranium sanguineum, Silene nutans & Thalictrum minus. Anacamptis is rare [column 5]. The slopes further north are much more bushy and rather gentler with low ash/horsetail & dogwood Clematis. Grassland is less rich & confined to occasional open patches, where Sorbus rupicola occurs on the edge. [column 6]. There is a small fragment of rock cutting on the W. side with a similar flora [column 7].

PREFERRED MANAGEMENT

Some scrub clearance in north and possibly better fencing or a proper path.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None

18.6.79 gom.

SITE NAME **Graig Fawr**

CDB ref

Internal ref **B180**

SIDE OF TRACK

N	E	W	S	E	W
---	---	---	---	---	---

DATE **18.6.79** RECORDER **CMSargent / Jomomford**

Additional Species

CODE	NAME
142	<i>Arabis hirsuta</i>
146	<i>Arabis hirsuta</i>
455	<i>Kentanthus ruber</i>
920	<i>Geranum sanguin.</i>
954	<i>Helianthemum can.</i>
1013	<i>Hypericum mont.</i>
1304	<i>Mithuraria verna</i>
1725	<i>Rubia pulegrina</i>
1928	<i>Silene rubens</i>
1974	<i>Sorbus rupicola</i>
204A	<i>Thalictrum minus</i>
2186	<i>Vicia sativa nigra</i>

Genus	Species	Code	Locality	Notes
509	Cichoo	513	Cic	
513	Cic	514	Cic	
515	Cic	516	Cic	
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RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Treborth

Map Ref SH549709 Data bank ref

NCC Region North Wales

County Gwynedd

Internal ref R169/B141

STATUS

Part of	<u>Adjacent to</u>	NMR	PNMR	LNR	<u>SSSI</u>	<u>BAC File</u>
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - Random Sunny Site

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Limestone rock Agrostoid - damp & dry. Scrub and
) tall herb communities. Cinder flats.
Geological)

RAILWAY REGION LMR

DIVISION Croawe

AREA -

Address of Area Civil Engrs Office W.G. Cutting (D.C.E.)

Telephone number

Rail House
Gresty Road
CAEWE

Tel. No. 0270 55123 extn 2914

Name of railway line Chester -> Holyhead

Access at Minor lone bridge over from Bot. Gdn. at 549709 Mileage post 240 1/2 -> 241

NOTIFICATION

	With whom	By whom	Date	Ref.
Site notified to BR				
Management agreement (see section 3 for detail)				

VISITS

Date	By whom	Assessment/Action
<u>20th June 1979</u>	<u>Dr. C.M. Sargent,</u> <u>B.M. Carleton &</u> <u>J.O. Mountford.</u>	<u>Including area by Manai Straits Shore SSSI and Manai Bridge</u> <u>ponds etc, a good large site with exceptional variety of</u> <u>habitat. Combines semi-natural vegetation with good</u> <u>artificial cinder communities to provide a useful conservation</u> <u>* Site. Probably not exceptional in local context but should be</u> <u>noted. Some proper assessment by local NCC Staff</u> <u>could help and be examination of line toward Bangor</u> <u>across Britannia Bridge toward Llanfairpwllgwyngyll</u> <u>esp. where it runs by the Strait woodlands or in cuttings. A</u> <u>useful study area for students etc. from the University</u> <u>Botanic Garden adjacent.</u>

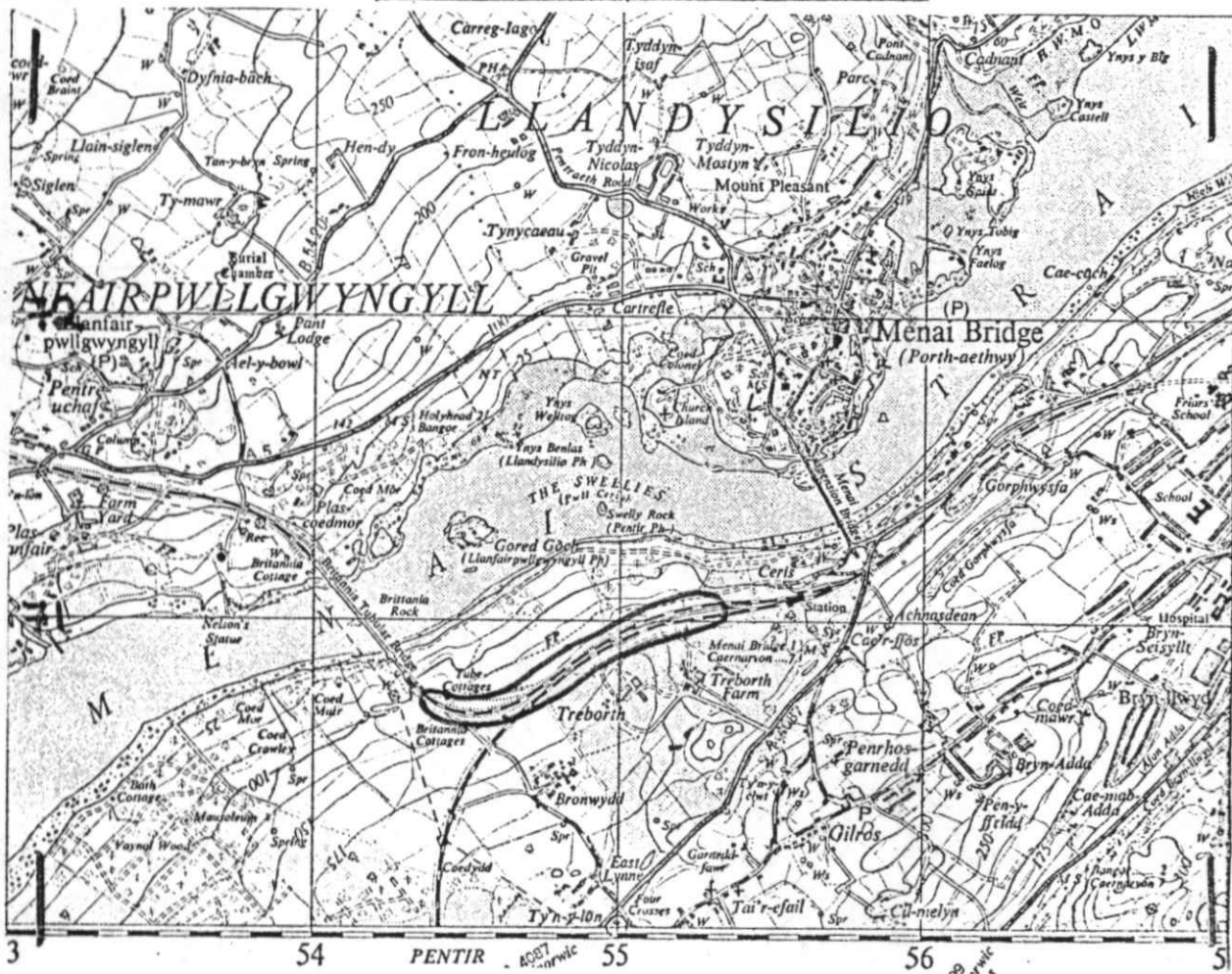
Continue overlea

FILE OPENED BY ITE Monks Wood

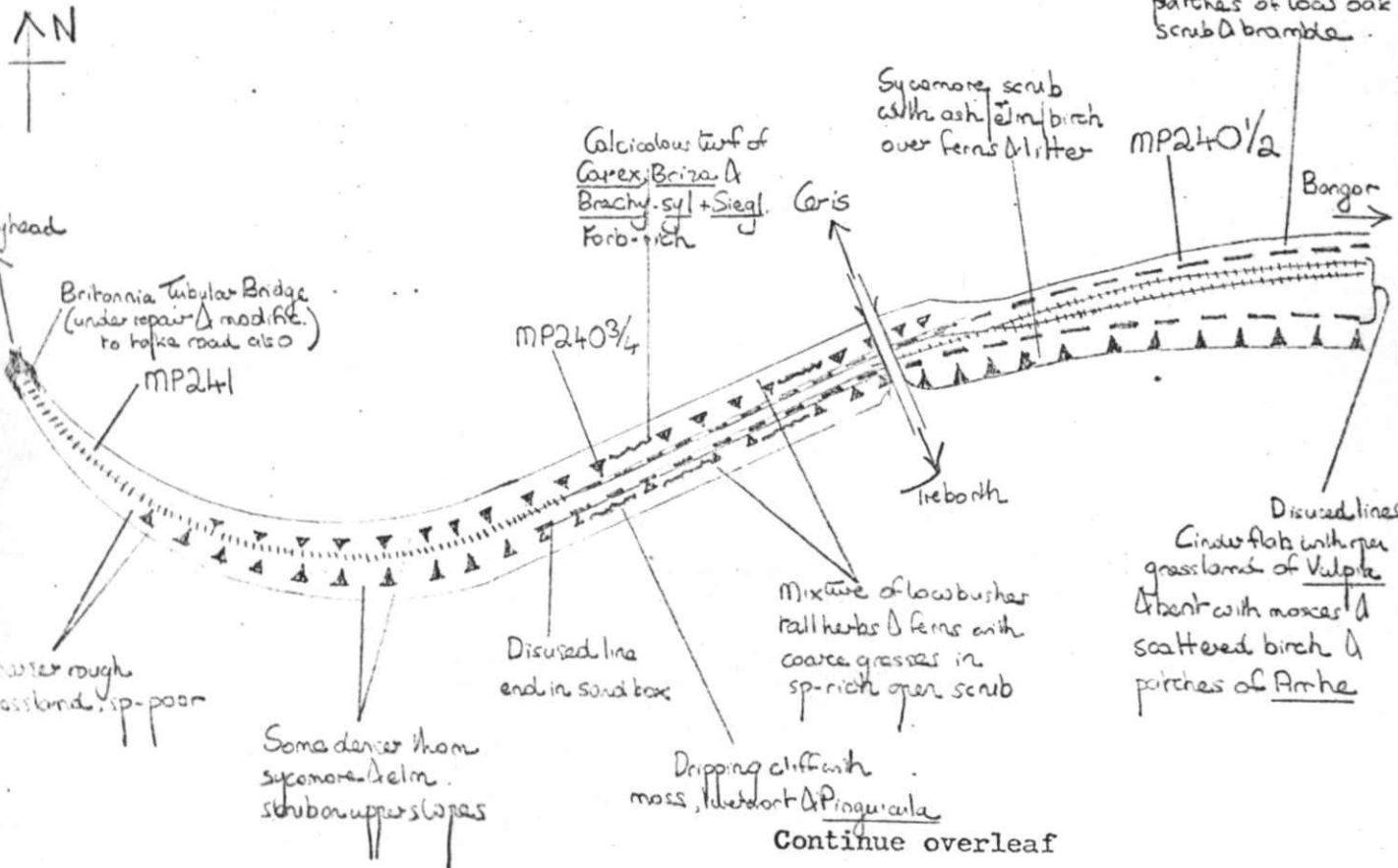
DATE 11th Jan. 1980

LOCATION STATUS

Accurate	Approximate
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SKETCH MAP



SITE NAME Treboth

CDB ref

(Section 3)
Internal ref R169/8141Altitude 100' → 165'Local Geology Carboniferous Limestone, passing W. into lower Carb. Beds of Red. Marls and SandstonesNeighbouring landuses Botanic Garden & recreational land.

DIRECTION FROM ACCESS

N E W S E W or POOTH

Dist from * access point	0 → 300(E)	E.0 → 300m	50 → 300m	W.0 → 350m	W.0 → 350m	W.150 → 250m	W.200 → 300m	W.300 → 600
Side of track °	S.	S.	N.	N.	S.	N.	S.	both
Landform x	Old line	Cut.	Flat	Cut./Flat	Cut./Flat	S.Cut.	S.Cut.	Cut./Flat
Aspect-degrees	—	0°	—	170°	350°	170°	350°	Varied
Width-metres	20 → 30m	6 → 9m	3.5m	2.0m	2.0m	10m	5m	→ 20m
Disturbance †	S.Cind.	—	Mo.Cind.	—	—	—	Dripping	Works

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- † Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Very species-rich — 151 spp. noted in brief visit, including the local Hypericum, Androsaceum, and Vulpia myuros; with good cinder flat and good calcicole turf with Cotoneaster, Mycatis etc. and Pinguicula common on a dripping cliff.

General vegn characteristics and habitat description indicate side of track

The site includes part of the old line to Coarnarvon, and to the E. of the AP there are some disused sidings between the used line and this. The cinder flats thus produced are covered in or open grass land of c. 15 → 20% to cover composed of Vulpia and Holcus and Agrostis tenuis. The Holcus becomes especially common on the Coarnarvon line at the S. edge with Arrhenatherum. Birch bushes are scattered across and acrocarpous moor common [column 1]. The narrow cutting slope along the S. side is covered in dense sycamore and ash scrub with birch and alm over a ground cover of litter or locally a dense dry carpet with ferns and sedges in an open field layer [column 2]. The narrow flat on the North side has Arrhenatherum & Holcus mollis grassland with patches of bramble and low scrub of oak (mainly Q. cerris) [column 3]. The cutting west of the access point has several limestone rock outcrops and much scrub of Horn/ash/Flax along the upper edge by the fences. The cover elsewhere is very patchy and is a mixture of this kind of scrub, coarse grass rather damp grassland with tall herbs and good populations of ivy, Dryopteris & Phyllitis [columns 4 & 5]. (Within this are two disused areas of interest. The rocky cutting slope near MP 240³/₄ on the N. side has a good forb-rich calcicole turf of Carex flacca, Brietia, Sieglingia and Brachypodium sylvaticum with Linum Fragaria, Centranthus, Laucentherum plus Hieracium sp. and Cotoneaster [column 6]. Further west and on the south side above the line is a low dripping cliff mainly moss-covered but with large populations of Pinguicula and Marchantia, plus Primula vulgaris [column 7]. The line runs to a single track to cross the bridge and the dead-end line has long sand-boxes lagging the rails. The cutting becomes lower and the departure of the old Coarnarvon line has been filled in. Near the bridge disturbance from current works on repair. The vegetation becomes more calcifuge and open floor with bramble, scrub and tall herbs/coarse grasses [column 8].

PREFERRED MANAGEMENT

Some removal of scrub and cutting of grass to increase area of turf near MP 240³/₄.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None, but current work on repairing & modifying bridge to take a road over the top

20.6.79 Jom.

Continue overleaf

N	E	W	S	E	W
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GRASSES	Additional Species	CODE	NAME
26 Agrop	<i>Acarplatensis</i>	4	
30 Agrop	<i>Anolidopsis</i>	142	
41 Alra	<i>Athyria</i>	211	
42 Alope	<i>Buddleia</i>	277	
84	<i>Centothus</i>	455	
85	<i>Cotoneaster</i>	562	
ARR11E	<i>Mahonia</i>	1228	
220 Avena	<i>Pinguicula</i>	1481	
249 Brach	<i>Pothilla</i>	1583	
262 Bromu	<i>Rumex</i>	1736	
283	<i>Salix</i>	1786	
289	<i>Hieracium</i>	1828	
443	<i>Valeriana</i>	2145	
444	<i>Vicia sativa</i>	2186	
293 Calam			
597 Cynos			
603 DACTY			
633 Dactyl			
628			
813 Festu			
816			
823			
815 Festu			
933 Glyce			
961 Helle			
Holecu			
992 Horde			
993			
1087 Koede			
1132 Loliu			
1263 Melic			
1206 Nibis			
1307 Nolin			
1344 Nardu			
1454 Phalu			
1461 Phicu			
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1465 Phrag			
1606 Pua			
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Additional Species
NAME
CODE

001	Acro	mult	0874	virg	185	rufe	269	osmu	460	Pleu	546	681	Adel	deci	790	Lcio	base	883	laev
002	Acro	cord	0875	arge	186	schr	272	rufu	461	subu	547	682	Anas	erca	791	bust	mucl	884	plan
003	Acro	cusp	0876	argi	187	squa	274	taxi	462	squa	548	683	Anas	fonti	794	muel	885	plat	
004	Acro	giga	0877	lana	188	subu	275	Viri	463	Pleu	549	684	Anth	juila	796	turb	886	thui	
005	Acro	sarm	0878	bico	189	vari	276	Font	464	Pohl	551	685	Anth	lucan	797	Leje	887	quad	
006	Acro	sira	0879	cues	190	aspe	276/1	anti	465	albi	554	688	Anth	laev	801	lama	888	Pul	
007	Acro	trif	0880	capa	191	denu	276/4	anti	466	annot	555	689	Apha	punc	801/2	lamd	889	cill	
008	Alol	trif	0881	capa	192	unci	281	groc	466	crud	556	692	Barb	micr	803	patie	890	Radu	
009	Alol	amb	0882	capa	193	unci	282	atse	467	deli	557	693	Barb	micr	804	uile	891	comp	
010	Alol	amb	0883	capa	194	unci	282	atse	468	drum	558	694	Barb	micr	805	pear	892	comp	
011	Ambi	amb	0884	capa	195	unci	283	fasc	470	clon	559	695	Barb	micr	806	Rebo	893	hennl	
012	Ambi	amb	0885	capa	196	unci	283	fasc	471	ludw	560	696	Barb	micr	807	Rebo	894	hennl	
013	Ambi	amb	0886	capa	197	unci	285	mueth	472	polu	561	697	Barb	micr	808	Rebo	895	hennl	
014	Ambi	amb	0887	capa	198	unci	285	mueth	473	nuta	562	698	Bazz	micr	809	Rebo	896	hennl	
015	Ambi	amb	0888	capa	199	unci	286	obtu	474	roth	563	700	Bazz	micr	810	Rebo	897	hennl	
016	Ambi	amb	0889	capa	200	unci	286	obtu	475	roth	564	701	Bazz	micr	811	Rebo	898	hennl	
017	Ambi	amb	0890	capa	201	unci	287	alpi	476	aloi	565	702	Biaz	micr	812	Rebo	899	hennl	
018	Ambi	amb	0891	capa	202	unci	287	alpi	477	aloi	566	703	Biaz	micr	813	Rebo	900	hennl	
019	Ambi	amb	0892	capa	203	unci	288	alpi	478	aloi	567	704	Biaz	micr	814	Rebo	901	hennl	
020	Ambi	amb	0893	capa	204	unci	288	alpi	479	aloi	568	705	Biaz	micr	815	Rebo	902	hennl	
021	Ambi	amb	0894	capa	205	unci	289	alpi	480	aloi	569	706	Biaz	micr	816	Rebo	903	hennl	
022	Ambi	amb	0895	capa	206	unci	290	alpi	481	aloi	570	707	Biaz	micr	817	Rebo	904	hennl	
023	Andr	alpi	0896	capa	207	unci	291	alpi	482	aloi	571	708	Biaz	micr	818	Rebo	905	hennl	
024	Andr	alpi	0897	capa	208	unci	292	alpi	483	aloi	572	709	Biaz	micr	819	Rebo	906	hennl	
025	Andr	alpi	0898	capa	209	unci	293	alpi	484	aloi	573	710	Biaz	micr	820	Rebo	907	hennl	
026	Andr	alpi	0899	capa	210	unci	301	alpi	485	aloi	574	711	Biaz	micr	821	Rebo	908	hennl	
027	Anoe	comp	0900	capa	211	unci	302	alpi	486	aloi	575	712	Biaz	micr	822	Rebo	909	hennl	
028	Anom	comp	0901	capa	212	unci	303	alpi	487	aloi	576	713	Biaz	micr	823	Rebo	910	hennl	
029	Anom	comp	0902	capa	213	unci	304	alpi	488	aloi	577	714	Biaz	micr	824	Rebo	911	hennl	
030	Anom	comp	0903	capa	214	unci	305	alpi	489	aloi	578	715	Biaz	micr	825	Rebo	912	hennl	
031	Anom	comp	0904	capa	215	unci	306	alpi	490	aloi	579	716	Biaz	micr	826	Rebo	913	hennl	
032	Anom	comp	0905	capa	216	unci	307	alpi	491	aloi	580	717	Biaz	micr	827	Rebo	914	hennl	
033	Anom	comp	0906	capa	217	unci	308	alpi	492	aloi	581	718	Biaz	micr	828	Rebo	915	hennl	
034	Anom	comp	0907	capa	218	unci	309	alpi	493	aloi	582	719	Biaz	micr	829	Rebo	916	hennl	
035	Anom	comp	0908	capa	219	unci	310	alpi	494	aloi	583	720	Biaz	micr	830	Rebo	917	hennl	
036	Anom	comp	0909	capa	220	unci	311	alpi	495	aloi	584	721	Biaz	micr	831	Rebo	918	hennl	
037	Anom	comp	0910	capa	221	unci	312	alpi	496	aloi	585	722	Biaz	micr	832	Rebo	919	hennl	
038	Anom	comp	0911	capa	222	unci	313	alpi	497	aloi	586	723	Biaz	micr	833	Rebo	920	hennl	
039	Anom	comp	0912	capa	223	unci	314	alpi	498	aloi	587	724	Biaz	micr	834	Rebo	921	hennl	
040	Anom	comp	0913	capa	224	unci	315	alpi	499	aloi	588	725	Biaz	micr	835	Rebo	922	hennl	
041	Anom	comp	0914	capa	225	unci	316	alpi	500	aloi	589	726	Biaz	micr	836	Rebo	923	hennl	
042	Anom	comp	0915	capa	226	unci	317	alpi	501	aloi	590	727	Biaz	micr	837	Rebo	924	hennl	
043	Anom	comp	0916	capa	227	unci	318	alpi	502	aloi	591	728	Biaz	micr	838	Rebo	925	hennl	
044	Anom	comp	0917	capa	228	unci	319	alpi	503	aloi	592	729	Biaz	micr	839	Rebo	926	hennl	
045	Anom	comp	0918	capa	229	unci	320	alpi	504	aloi	593	730	Biaz	micr	840	Rebo	927	hennl	
046	Anom	comp	0919	capa	230	unci	321	alpi	505	aloi	594	731	Biaz	micr	841	Rebo	928	hennl	
047	Anom	comp	0920	capa	231	unci	322	alpi	506	aloi	595	732	Biaz	micr	842	Rebo	929	hennl	
048	Anom	comp	0921	capa	232	unci	323	alpi	507	aloi	596	733	Biaz	micr	843	Rebo	930	hennl	
049	Anom	comp	0922	capa	233	unci	324	alpi	508	aloi	597	734	Biaz	micr	844	Rebo	931	hennl	
050	Anom	comp	0923	capa	234	unci	325	alpi	509	aloi	598	735	Biaz	micr	845	Rebo	932	hennl	
051	Anom	comp	0924	capa	235	unci	326	alpi	510	aloi	599	736	Biaz	micr	846	Rebo	933	hennl	
052	Anom	comp	0925	capa	236	unci	327	alpi	511	aloi	600	737	Biaz	micr	847	Rebo	934	hennl	
053	Anom	comp	0926	capa	237	unci	328	alpi	512	aloi	601	738	Biaz	micr	848	Rebo	935	hennl	
054	Anom	comp	0927	capa	238	unci	329	alpi	513	aloi	602	739	Biaz	micr	849	Rebo	936	hennl	
055	Anom	comp	0928	capa	239	unci	330	alpi	514	aloi	603	740	Biaz	micr	850	Rebo	937	hennl	
056	Anom	comp	0929	capa	240	unci	331	alpi	515	aloi	604	741	Biaz	micr	851	Rebo	938	hennl	
057	Anom	comp	0930	capa	241	unci	332	alpi	516	aloi	605	742	Biaz	micr	852	Rebo	939	hennl	
058	Anom	comp	0931	capa	242	unci	333	alpi	517	aloi	606	743	Biaz	micr	853	Rebo	940	hennl	
059	Anom	comp	0932	capa	243	unci	334	alpi	518	aloi	607	744	Biaz	micr	854	Rebo	941	hennl	
060	Anom	comp	0933	capa	244	unci	335	alpi	519	aloi	608	745	Biaz	micr	855	Rebo	942	hennl	
061	Anom	comp	0934	capa	245	unci	336	alpi	520	aloi	609	746	Biaz	micr	856	Rebo	943	hennl	
062	Anom	comp	0935	capa	246	unci	337	alpi	521	aloi	610	747	Biaz	micr	857	Rebo	944	hennl	
063	Anom	comp	0936	capa	247	unci	338	alpi	522	aloi	611	748	Biaz	micr	858	Rebo	945	hennl	
064	Anom	comp	0937	capa	248	unci	339	alpi	523	aloi	612	749	Biaz	micr	859	Rebo	946	hennl	
065	Anom	comp	0938	capa	249	unci	340	alpi	524	aloi	613	750	Biaz	micr	860	Rebo	947	hennl	
066	Anom	comp	0939	capa	250	unci	341	alpi	525	aloi	614	751	Biaz	micr	861	Rebo	948	hennl	
067	Anom	comp	0940	capa	251	unci	342	alpi	526	aloi	615	752	Biaz	micr	862	Rebo	949	hennl	
068	Anom	comp	0941	capa	252	unci	343	alpi	527	aloi	616	753	Biaz	micr	863	Rebo	950	hennl	
069	Anom	comp	0942	capa	253	unci	344	alpi	528	aloi	617	754	Biaz	micr	864	Rebo	951	hennl	
070	Anom	comp	0943	capa	254	unci	345	alpi	529	aloi	618	755	Biaz	micr	865	Rebo	952	hennl	
071	Anom	comp	0944	capa	255	unci	346	alpi	530	aloi	619	756	Biaz	micr	866	Rebo	953	hennl	
072	Anom	comp	0945	capa	256	unci	347	alpi	531	aloi	620	757	Biaz	micr	867	Rebo	954	hennl	
073	Anom	comp	0946	capa	257	unci	348	alpi	532	aloi	621	758	Biaz	micr	868	Rebo	955	hennl	
074	Anom	comp	0947	capa	258	unci	349	alpi	533	aloi	622	759	Biaz	micr	869	Rebo	956	hennl	
075	Anom	comp	0948	capa	259	unci	350	alpi	534	aloi	623	760	Biaz	micr	870	Rebo	957	hennl	
076	Anom	comp	0949	capa	260	unci	351	alpi	535	aloi	624	761	Biaz	micr	871	Rebo	958	hennl	
077	Anom	comp	0950	capa	261	unci	352	alpi	536	aloi	625	762	Biaz	micr	872	Rebo	959	hennl	
078	Anom	comp	0951	capa	262	unci	353	alpi	537	aloi	626	763	Biaz	micr	873	Rebo	960	hennl	
079	Anom	comp	0952	capa	263	unci	354	alpi	538	aloi	627	764	Biaz	micr	874	Rebo	961	hennl	
080	Anom	comp	0953	capa	264	unci	355	alpi	539	aloi	628	765	Biaz	micr	875	Rebo	962	hennl	
081	Anom	comp	0954	capa	265	unci	356	alpi	540	aloi	629	766	Biaz	micr	876	Rebo	963	hennl	
082	Anom	comp	0955	capa	266	unci	357	alpi	541	aloi	630	767	Biaz	micr	877	Rebo	964	hennl	
083	Anom	comp	0956	capa	2														

ANIMAL RECORD	REGN. LMA	DIVN. CREWE	AREA	SITE R169/B14
SITE NAME Treboeth	RECORDER B.M. Carleton	WEATHER Very hot and sunny with only a slight occasional breeze		LANDFORM ① 2 3 4 ⑤ 6 7 To W. of AP (B14) cutting with rocky slopes & flats above. To E. broad under flat of old sidings plus gentler cutting down to S; and narrow flat to N..
M.P. 240 1/2 → 241	TIPPING On banks - very little, but broad under flat to E.	DATE 20.6.79	TIME 11:30 → 17:45	
COUNTY Gwynedd	N.L.U. Botanic garden etc plus playing fields			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	25	700	long site with rocky cutting in W. giving to large cinder-flats in E.. Much scrub & coarse grass, but dripping cliffs, ditch & calcareous turf also occur. Good variety of habitat and excellent plant list makes this a diverse and valuable site with enough room for many spp and territories. The proximity of the Straits with their associated woodlands and of course the variety of food plants in the Botanic Garden do tend to overshadow this site.	Birds (small)	4	4	4
1	1	5	700		Birds (large)	3	3	3
1	6	30	700		Mamm. (small)	3	3	2
4	3	10	700		Mamm. (large)	3	2	1
6	5	30	703		Other verts.	.	2	2
3	2	-	700		Lepidoptera	3	.	3
					Other insects	3	3	3
				Other inverts.	3	3	3	

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Woodpigeon	2990	2			Large White	
Starling	5190	1			Small Heath	
Magpie	3720	1			Small Tortoiseshell	
Wren	3980	1			Meadow Brown	
Collared Dove	3020	1			Small Pearl-bordered Fritillary	
Chaffinch	5550	1			Peacock	
Robin	4000	1			Lasius sp. & hills	
Sweet	3270	2			Culicid fly	
Blackbird	4240	2			Tabanid fly	
Carion Crow	3681	1			Various: Hemiptera - froghopper aphid	

contd. over			contd. over		contd. over	
contd. over			contd. over		contd. over	

SITE NAME Trawshynydd

CDB ref

(Section 3)
Internal ref R195

Altitude 590' → 625'

Local Geology Cambrian Grits

Neighbouring landuses Road, rough pasture

DIRECTION FROM ACCESS

N E W S E W or BOTH

Dist from access point	0 →	0 →	50 →	100 →	60 →	0 →	50 →	20 →
	60m	80m	100m	250m	250m	50m	250m	250m
Side of track °	E.	E.	E.	E.	E.	W.	W.	W.
Landform x	Cut.	Ditch	Flat	Flat	Cut.	Various	Flat	Emb.
Aspect-degrees	300°	—	—	—	290°	Various	—	290°
Width-metres	→10m.	2m.	11m.	12m.	c.5m	→23m	c.16m	6m.
Disturbance +	L.Ball.	—	—	L.Ball.	—	S.Ball.	S.Ball	L.Ball

- If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Sallow scrub, damp calcifuge grassland & cinder/ballast flats
 Inland population of Carex acutata on trackside cinder. Vulpia myuros, Catapodium rigidum
 etc. on flats. Carex pallascens and Viola odorata in sallow scrub. Platanthera chlorantha
 on damp turf. 142 spp in all.

General vegn characteristics and habitat description indicate side of track
 The east side has a flat and ditch by the line with a cutting slope and usually a narrow flat up
 to the RHOB. The S. slope has tall herb & fern meadow of Arrha, Cirsium, Holcus mollis
 plus male fern, tormentil & a great deal of pleurocarpous moss esp. Rhytidadelphus concolor.
Rubus is invading and the upper part has turf areas with betony and orchids [column 2]. In and by
 the ditch is a similar flora, and the site is overgrown generally with brack or Bramble, but locally
 watercress etc. grow in the still water [column 2]. The sallow scrub on the flat to the north has a
 rich ground flora of orchids, Luzimachia, Carex pallascens, vidua & valerian, plus Angelica in a
 damp shaded mossy site [column 3]. North from here the flat opens out somewhat and a much
 greater variety of vegetation occurs. There is still some sallow and thorn scrub but the main
 cover is bramble or herbaceous. A ballast ridge by the line has goosegrass, rattle, bramble etc.
 with rushes and Plantagin becoming common on the flat behind. Grassy patches have Arrhenatherum
 as well as Nardus, Sieglingia, bent and Anthoxanthum, and good patches of tormentil, some A
Epitobium montanum. [column 4]. The cutting above is mainly hard & thorn over bramble &
 black or [column 5]. The west side has on old platform & access track plus some buildings near
 the AP. The trackside ballast has Cynurus, Arrha, Arrha in a herb-Asp-poor very mixed grass-
 land with Cirsium/bent and a lot of moss. This is succeeding by a platform wall with a good
 population of Asplenium spp. The area by the access track has similar grassland with rather more
 litter and a lot of clover where there is vehicle pressure. [column 6]. The goods yard to the north
 is mostly rather open with a forb-rich turf of bent, hawkbit, clover and Parnassia as well as the
 typical Vulpia, Eragrostis, Euphrasia & Poa annua association. Near the line there is coarser
 very herb-poor mixed grassland and some scrub of sallow & oak [column 7]. Bracken covers much
 of the embankment with areas of rosbay and hard, plus rattle and hogweed. Holcus mollis
 is common as a lower undergrowth especially on the upper slope. [column 8].

PREFERRED MANAGEMENT

Grazing of much of site. Some scrub cutting.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

Grazing is evident esp. on goods yard. Ballasting is common. Otherwise none.

from 11.7.79.

GRASSES	CODE	NAME	SPECIES
26 Agrop	142	Arabisopsis Thal.	hol
33	211	Alhystriuh Galix of.	med
Agros	3144	Centaurea oveneria	pr
	397	Carex ovalis	pr
	399	Carex pallascens	pr
	804	Euphrasia roshkov.	pr
	868	Galeopsis lat. S.S.	pr
	1493	Alonchthera chlor.	pr
	1729	Rubus idaeus	pr
	1736	Rumex ac. S.S.	pr
	1786	Salix cin. ole.	pr
	1828	Hieracium sp.	pr
	2186	Vicia sativa nigra	pr
35	1594	Arabisopsis Thal.	hol
36	1596	Alhystriuh Galix of.	med
37	1605	Centaurea oveneria	pr
38	1607	Carex ovalis	pr
39	1608	Carex pallascens	pr
40	1609	Euphrasia roshkov.	pr
41	1610	Galeopsis lat. S.S.	pr
42	1611	Alonchthera chlor.	pr
43	1612	Rubus idaeus	pr
44	1613	Rumex ac. S.S.	pr
45	1614	Salix cin. ole.	pr
46	1615	Hieracium sp.	pr
47	1616	Vicia sativa nigra	pr
48	1617	Arabisopsis Thal.	hol
49	1618	Alhystriuh Galix of.	med
50	1619	Centaurea oveneria	pr
51	1620	Carex ovalis	pr
52	1621	Carex pallascens	pr
53	1622	Euphrasia roshkov.	pr
54	1623	Galeopsis lat. S.S.	pr
55	1624	Alonchthera chlor.	pr
56	1625	Rubus idaeus	pr
57	1626	Rumex ac. S.S.	pr
58	1627	Salix cin. ole.	pr
59	1628	Hieracium sp.	pr
60	1629	Vicia sativa nigra	pr
61	1630	Arabisopsis Thal.	hol
62	1631	Alhystriuh Galix of.	med
63	1632	Centaurea oveneria	pr
64	1633	Carex ovalis	pr
65	1634	Carex pallascens	pr
66	1635	Euphrasia roshkov.	pr
67	1636	Galeopsis lat. S.S.	pr
68	1637	Alonchthera chlor.	pr
69	1638	Rubus idaeus	pr
70	1639	Rumex ac. S.S.	pr
71	1640	Salix cin. ole.	pr
72	1641	Hieracium sp.	pr
73	1642	Vicia sativa nigra	pr
74	1643	Arabisopsis Thal.	hol
75	1644	Alhystriuh Galix of.	med
76	1645	Centaurea oveneria	pr
77	1646	Carex ovalis	pr
78	1647	Carex pallascens	pr
79	1648	Euphrasia roshkov.	pr
80	1649	Galeopsis lat. S.S.	pr
81	1650	Alonchthera chlor.	pr
82	1651	Rubus idaeus	pr
83	1652	Rumex ac. S.S.	pr
84	1653	Salix cin. ole.	pr
85	1654	Hieracium sp.	pr
86	1655	Vicia sativa nigra	pr
87	1656	Arabisopsis Thal.	hol
88	1657	Alhystriuh Galix of.	med
89	1658	Centaurea oveneria	pr
90	1659	Carex ovalis	pr
91	1660	Carex pallascens	pr
92	1661	Euphrasia roshkov.	pr
93	1662	Galeopsis lat. S.S.	pr
94	1663	Alonchthera chlor.	pr
95	1664	Rubus idaeus	pr
96	1665	Rumex ac. S.S.	pr
97	1666	Salix cin. ole.	pr
98	1667	Hieracium sp.	pr
99	1668	Vicia sativa nigra	pr
100	1669	Arabisopsis Thal.	hol
101	1670	Alhystriuh Galix of.	med
102	1671	Centaurea oveneria	pr
103	1672	Carex ovalis	pr
104	1673	Carex pallascens	pr
105	1674	Euphrasia roshkov.	pr
106	1675	Galeopsis lat. S.S.	pr
107	1676	Alonchthera chlor.	pr
108	1677	Rubus idaeus	pr
109	1678	Rumex ac. S.S.	pr
110	1679	Salix cin. ole.	pr
111	1680	Hieracium sp.	pr
112	1681	Vicia sativa nigra	pr
113	1682	Arabisopsis Thal.	hol
114	1683	Alhystriuh Galix of.	med
115	1684	Centaurea oveneria	pr
116	1685	Carex ovalis	pr
117	1686	Carex pallascens	pr
118	1687	Euphrasia roshkov.	pr
119	1688	Galeopsis lat. S.S.	pr
120	1689	Alonchthera chlor.	pr
121	1690	Rubus idaeus	pr
122	1691	Rumex ac. S.S.	pr
123	1692	Salix cin. ole.	pr
124	1693	Hieracium sp.	pr
125	1694	Vicia sativa nigra	pr
126	1695	Arabisopsis Thal.	hol
127	1696	Alhystriuh Galix of.	med
128	1697	Centaurea oveneria	pr
129	1698	Carex ovalis	pr
130	1699	Carex pallascens	pr
131	1700	Euphrasia roshkov.	pr
132	1701	Galeopsis lat. S.S.	pr
133	1702	Alonchthera chlor.	pr
134	1703	Rubus idaeus	pr
135	1704	Rumex ac. S.S.	pr
136	1705	Salix cin. ole.	pr
137	1706	Hieracium sp.	pr
138	1707	Vicia sativa nigra	pr
139	1708	Arabisopsis Thal.	hol
140	1709	Alhystriuh Galix of.	med
141	1710	Centaurea oveneria	pr
142	1711	Carex ovalis	pr
143	1712	Carex pallascens	pr
144	1713	Euphrasia roshkov.	pr
145	1714	Galeopsis lat. S.S.	pr
146	1715	Alonchthera chlor.	pr
147	1716	Rubus idaeus	pr
148	1717	Rumex ac. S.S.	pr
149	1718	Salix cin. ole.	pr
150	1719	Hieracium sp.	pr
151	1720	Vicia sativa nigra	pr
152	1721	Arabisopsis Thal.	hol
153	1722	Alhystriuh Galix of.	med
154	1723	Centaurea oveneria	pr
155	1724	Carex ovalis	pr
156	1725	Carex pallascens	pr
157	1726	Euphrasia roshkov.	pr
158	1727	Galeopsis lat. S.S.	pr
159	1728	Alonchthera chlor.	pr
160	1729	Rubus idaeus	pr
161	1730	Rumex ac. S.S.	pr
162	1731	Salix cin. ole.	pr
163	1732	Hieracium sp.	pr
164	1733	Vicia sativa nigra	pr
165	1734	Arabisopsis Thal.	hol
166	1735	Alhystriuh Galix of.	med
167	1736	Centaurea oveneria	pr
168	1737	Carex ovalis	pr
169	1738	Carex pallascens	pr
170	1739	Euphrasia roshkov.	pr
171	1740	Galeopsis lat. S.S.	pr
172	1741	Alonchthera chlor.	pr
173	1742	Rubus idaeus	pr
174	1743	Rumex ac. S.S.	pr
175	1744	Salix cin. ole.	pr
176	1745	Hieracium sp.	pr
177	1746	Vicia sativa nigra	pr
178	1747	Arabisopsis Thal.	hol
179	1748	Alhystriuh Galix of.	med
180	1749	Centaurea oveneria	pr
181	1750	Carex ovalis	pr
182	1751	Carex pallascens	pr
183	1752	Euphrasia roshkov.	pr
184	1753	Galeopsis lat. S.S.	pr
185	1754	Alonchthera chlor.	pr
186	1755	Rubus idaeus	pr
187	1756	Rumex ac. S.S.	pr
188	1757	Salix cin. ole.	pr
189	1758	Hieracium sp.	pr
190	1759	Vicia sativa nigra	pr
191	1760	Arabisopsis Thal.	hol
192	1761	Alhystriuh Galix of.	med
193	1762	Centaurea oveneria	pr
194	1763	Carex ovalis	pr
195	1764	Carex pallascens	pr
196	1765	Euphrasia roshkov.	pr
197	1766	Galeopsis lat. S.S.	pr
198	1767	Alonchthera chlor.	pr
199	1768	Rubus idaeus	pr
200	1769	Rumex ac. S.S.	pr
201	1770	Salix cin. ole.	pr
202	1771	Hieracium sp.	pr
203	1772	Vicia sativa nigra	pr
204	1773	Arabisopsis Thal.	hol
205	1774	Alhystriuh Galix of.	med
206	1775	Centaurea oveneria	pr
207	1776	Carex ovalis	pr
208	1777	Carex pallascens	pr
209	1778	Euphrasia roshkov.	pr
210	1779	Galeopsis lat. S.S.	pr
211	1780	Alonchthera chlor.	pr
212	1781	Rubus idaeus	pr
213	1782	Rumex ac. S.S.	pr
214	1783	Salix cin. ole.	pr
215	1784	Hieracium sp.	pr
216	1785	Vicia sativa nigra	pr
217	1786	Arabisopsis Thal.	hol
218	1787	Alhystriuh Galix of.	med
219	1788	Centaurea oveneria	pr
220	1789	Carex ovalis	pr
221	1790	Carex pallascens	pr
222	1791	Euphrasia roshkov.	pr
223	1792	Galeopsis lat. S.S.	pr
224	1793	Alonchthera chlor.	pr
225	1794	Rubus idaeus	pr
226	1795	Rumex ac. S.S.	pr
227	1796	Salix cin. ole.	pr
228	1797	Hieracium sp.	pr
229	1798	Vicia sativa nigra	pr
230	1799	Arabisopsis Thal.	hol
231	1800	Alhystriuh Galix of.	med
232	1801	Centaurea oveneria	pr
233	1802	Carex ovalis	pr
234	1803	Carex pallascens	pr
235	1804	Euphrasia roshkov.	pr
236	1805	Galeopsis lat. S.S.	pr
237	1806	Alonchthera chlor.	pr
238	1807	Rubus idaeus	pr
239	1808	Rumex ac. S.S.	pr
240	1809	Salix cin. ole.	pr
241	1810	Hieracium sp.	pr
242	1811	Vicia sativa nigra	pr
243	1812	Arabisopsis Thal.	hol
244	1813	Alhystriuh Galix of.	med
245	1814	Centaurea oveneria	pr
246	1815	Carex ovalis	pr
247	1816	Carex pallascens	pr
248	1817	Euphrasia roshkov.	pr
249	1818	Galeopsis lat. S.S.	pr
250	1819	Alonchthera chlor.	pr
251	1820	Rubus idaeus	pr
252	1821	Rumex ac. S.S.	pr
253	1822	Salix cin. ole.	pr
254	1823	Hieracium sp.	pr
255	1824	Vicia sativa nigra	pr
256	1825	Arabisopsis Thal.	hol
257	1826	Alhystriuh Galix of.	med
258	1827	Centaurea oveneria	pr
259	1828	Carex ovalis	pr
260	1829	Carex pallascens	pr
261	1830	Euphrasia roshkov.	pr
262	1831	Galeopsis lat. S.S.	pr
263	1832	Alonchthera chlor.	pr
264	1833	Rubus idaeus	pr
265	1834	Rumex ac. S.S.	pr
266	1835	Salix cin. ole.	pr
267	1836	Hieracium sp.	pr
268	1837	Vicia sativa nigra	pr
269	1838	Arabisopsis Thal.	hol
270	1839	Alhystriuh Galix of.	med
271	1840	Centaurea oveneria	pr
272	1841	Carex ovalis	pr
273	1842	Carex pallascens	pr
274	1843	Euphrasia roshkov.	pr
275	1844	Galeopsis lat. S.S.	pr
276	1845	Alonchthera chlor.	pr
277	1846	Rubus idaeus	pr
278	1847	Rumex ac. S.S.	pr
279	1848	Salix cin. ole.	pr
280	1849	Hieracium sp.	pr
281	1850	Vicia sativa nigra	pr
282	1851	Arabisopsis Thal.	hol
283	1852	Alhystriuh Galix of.	med
284	1853	Centaurea oveneria	pr
285	1854	Carex ovalis	pr
286	1855	Carex pallascens	pr
287	1856	Euphrasia roshkov.	pr
288	1857	Galeopsis lat. S.S.	pr
289	1858	Alonchthera chlor.	pr
290	1859	Rubus idaeus	pr
291	1860	Rumex ac. S.S.	pr
292	1861	Salix cin. ole.	pr
293	1862	Hieracium sp.	pr
294	1863	Vicia sativa nigra	pr
295	1864	Arabisopsis Thal.	hol
296	1865	Alhystriuh Galix of.	med
297			

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME **Trawsfynydd**

Map Ref **SH694399** Data bank ref

NCC Region **North Wales**

County **Gwynedd**

Internal ref **AJ95**

STATUS

Part of	Adjacent to	NNR	PNR	LNR	SSSI	
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - **Random Survey Site**

INTEREST

Plants	General	Local	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - **Damp & dry calcifuge grassland with areas of sallow, oak & thorn scrub as well as old goods yard & bracken. Plus areas of sedge, brambles & sedge**
 Geological)

RAILWAY REGION **LMA** DIVISION **Crewe**

AREA -

Address of Area Civil Engrs Office **W.G. Cutting (C.E.)**

Telephone number

**Rail House
Gresty Rd.
CREWE**

Tel. No. 0270 55123 extn. 2914

Name of railway line **Trawsfynydd branch (from Llandudno through Blaenau Ffestiniog)**

Access at **A108 bridge over at SH694399**

Mileage post **20 1/2**

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

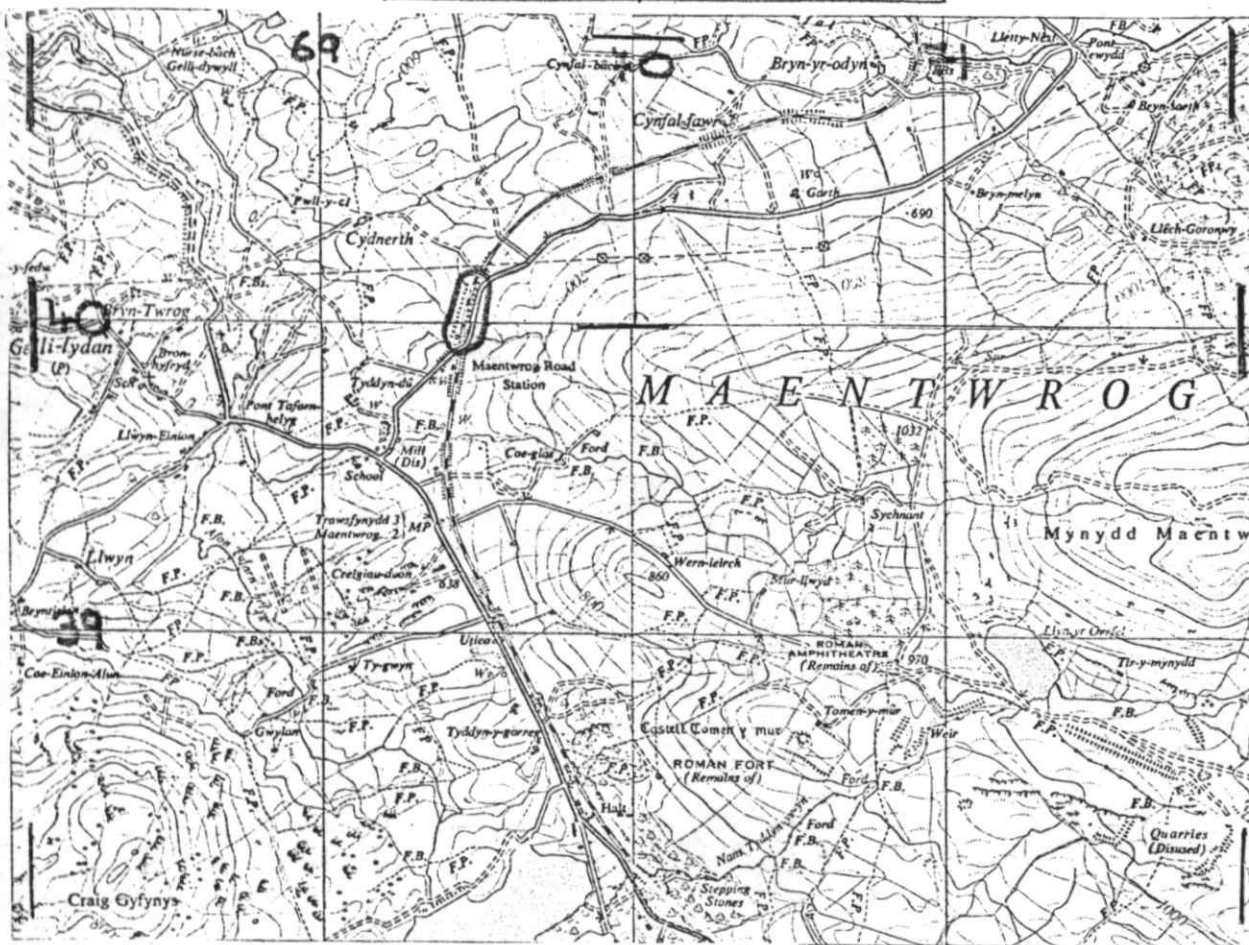
Date	By whom	Assessment/Action
11th July 1979	Dr. C.M. Sargent, B.M. Carleton & J.O. Mountford.	Excellent site with a wide variety of fauna and flora, plus a number of local spp. Though on the edge of Snowdonia and near the Welsh coast with all the good sites there possess, this is still a valuable sp-rich site in a rather dull area of damp rush pasture etc.. The sallow scrub with its edges is particularly important in a treeless region and the goods yard introduced a more calcareous habitat * Recommend the site be noted and monitored. A closer examination of the line from Trawsfynydd to Llanrhastrad would be useful judging from this and the site at Penkynydd. Some management here could be useful to maintain the current diversity.

FILE OPENED BY **ITE, Monks Wood**

DATE **11th Jan. 1980**

LOCATION STATUS

<u>Accurate</u>	Approximate
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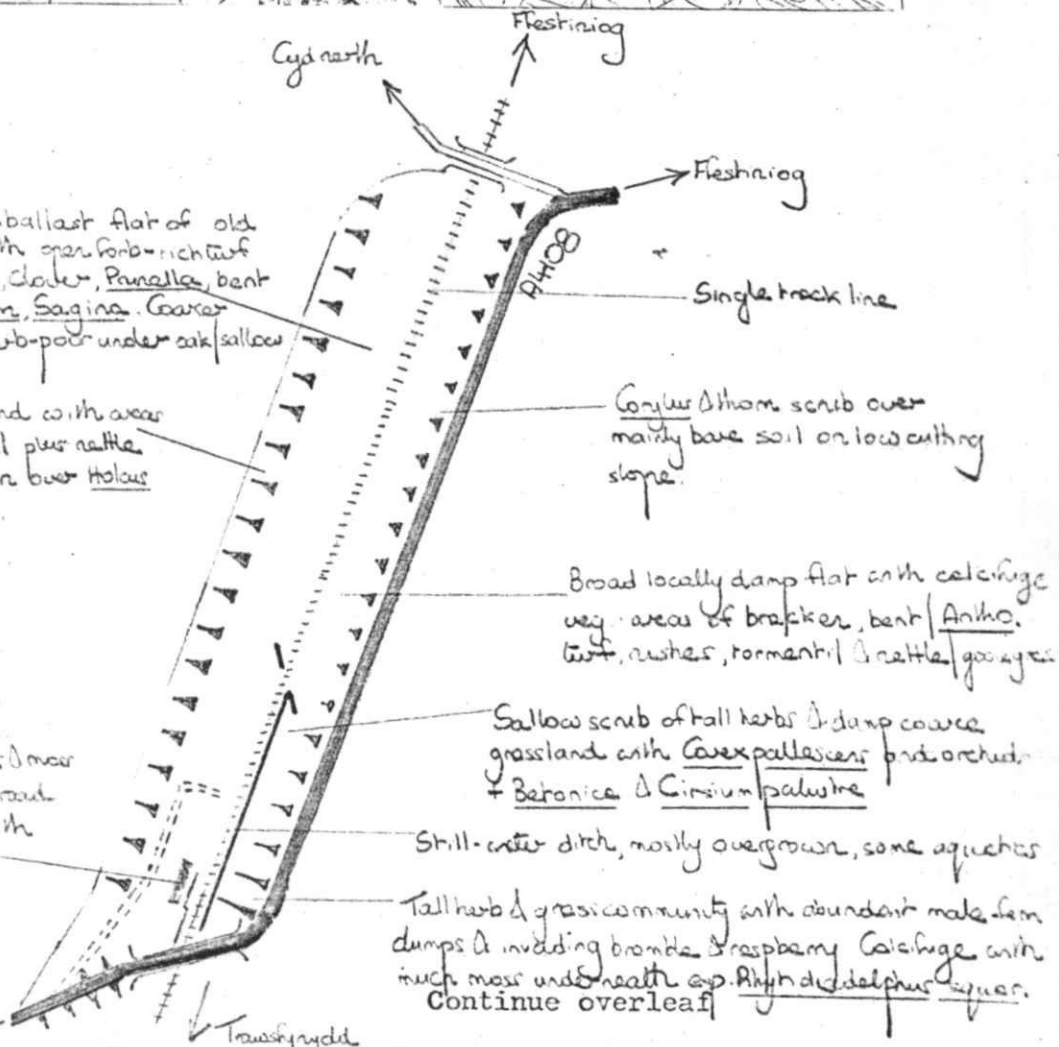
SKETCH MAP

AN

Under ballast flat of old goods yard with open forb-rich turf of *Leontodon*, *Cladonia*, *Panella*, bent *Vulpia*, *Linum*, *Sagina*. Coarser rest-line & herb-poor under oak sallow

Bracken stand with wear of mow & horse plus rattle & hogweed, often over *Holcus mollis* grassland.

Maentwrog Rd. Station
flat floor by line & road low grass & moss
Asperula on platform. Tron broad
area including access track with
moss and clover etc.



Corylus & *Alnus* scrub over mainly bare soil on low cutting slope

Broad locally damp flat with calcifuge veg: areas of bracken, bent *Anthriscus*, *Urtica*, rushes, *Comarostaphylis* & rattle/goose grass

Sallow scrub of tall herbs & damp coarse grassland with *Carex pallescens*, *Prunella* & *Betonica* & *Cirsium palustre*

Still-water ditch, mostly overgrown, some aquatics
Tall herb & grass community with abundant male fern
dumps & invading bramble & raspberry. Calcifuge with
much moss under health esp. *Rhynchospora alba*
Continue overleaf

6457 & Trawsfynydd

Additional Species
CODE NAME

001	Acas mui	0874	viri	185	rufe	269	oamu	363	myur	460	Pieu acum	546	pauz	681	Adel deci	790	Leio	883	laev
002	Acro cord	089	arge	186	schr	272	rufu	364	siri	461	subu	547	pusi	683	Anas orca	791	bant	884	platt
003	Acro cord	0891	arge	187	squa	274	taxi	365	Lept rupa	462	Pieu squa	548	reci	684	Anas doni	794	muel	885	platt
004	garm	0892	lana	188	subu	275	viri	366	Lept rupa	463	Pieu schr	549	trif	686	Anth Julia	796	turb	886	thuj
005	sira	090	bico	189	vari	276	Font	367	Lept rupa	464	Pohl acum	551	Sema nova	688	Anth lusun	801	cavi	887	quad
006	trif	091	caes	190	aspe	276/1	anti	368	Lept rupa	465	albi	554	Spha comp	690	puuc	801/1	eror	888	Pill cili
007	aloi	091	cana	191	dena	276/2	grac	369	Lept rupa	466	annot	555	comp	691	Apha micr	802	lana	889	puk
008	aloi	092	capu	192	uncu	281	squa	370	Lept rupa	467	crud	556	comp	692	Barb micr	803	pauc	890	Radu squa
009	aloi	093	domi	193	cirr	282	grac	371	Lept rupa	468	dell	557	fimb	693	Barb micr	804	ulic	891	comp
010	aloi	094	domi	194	cirr	283	Funa	372	Lept rupa	469	dell	558	fusc	694	Barb micr	805	pear	892	lind
011	aloi	095	erct	195	erct	284	grac	373	Lept rupa	470	dell	559	fusc	695	Barb micr	806	pinun	893	Rebo henu
012	Ambi deal	096	erct	196	erct	285	grac	374	Lept rupa	471	dell	560	grac	696	Barb micr	807	rept	894	Rebo henu
013	Ambi deal	097	erct	197	erct	286	grac	375	Lept rupa	472	elou	561	grac	697	Barb micr	808	rept	895	Rebo henu
014	Ambi conf	100	inte	198	boni	287	grac	376	Lept rupa	473	elou	562	grac	698	Barb micr	809	rept	896	Rebo henu
015	Ambi spru	105	inte	199	boni	288	grac	377	Lept rupa	474	elou	563	grac	699	Barb micr	810	rept	897	Rebo henu
016	Ambi comp	107	mura	200	flac	289	grac	378	Lept rupa	475	roth	564	grac	700	Bazz micr	811	rept	898	Rebo henu
017	serp	111	pallens	201	flac	289/1	aloi	379	Lept rupa	476	roth	565	grac	701	Bazz micr	812	rept	899	Rebo henu
018	serp	112	pallens	202	flac	289/2	aloi	380	Lept rupa	477	roth	566	grac	702	Bazz micr	813	rept	900	Rebo henu
019	serp	113	pallens	203	flac	290	aloi	381	Lept rupa	478	roth	567	grac	703	Bazz micr	814	rept	901	Rebo henu
020	serp	114	pallens	204	flac	291	aloi	382	Lept rupa	479	roth	568	grac	704	Bazz micr	815	rept	902	Rebo henu
021	serp	115	pallens	205	flac	292	aloi	383	Lept rupa	480	roth	569	grac	705	Bazz micr	816	rept	903	Rebo henu
022	serp	116	pallens	206	flac	293	aloi	384	Lept rupa	481	roth	570	grac	706	Bazz micr	817	rept	904	Rebo henu
023	serp	117	pallens	207	flac	294	aloi	385	Lept rupa	482	roth	571	grac	707	Bazz micr	818	rept	905	Rebo henu
024	serp	118	pallens	208	flac	295	aloi	386	Lept rupa	483	roth	572	grac	708	Bazz micr	819	rept	906	Rebo henu
025	serp	119	pallens	209	flac	296	aloi	387	Lept rupa	484	roth	573	grac	709	Bazz micr	820	rept	907	Rebo henu
026	serp	120	pallens	210	flac	297	aloi	388	Lept rupa	485	roth	574	grac	710	Bazz micr	821	rept	908	Rebo henu
027	serp	121	pallens	211	flac	298	aloi	389	Lept rupa	486	roth	575	grac	711	Bazz micr	822	rept	909	Rebo henu
028	serp	122	pallens	212	flac	299	aloi	390	Lept rupa	487	roth	576	grac	712	Bazz micr	823	rept	910	Rebo henu
029	serp	123	pallens	213	flac	300	aloi	391	Lept rupa	488	roth	577	grac	713	Bazz micr	824	rept	911	Rebo henu
030	serp	124	pallens	214	flac	301	aloi	392	Lept rupa	489	roth	578	grac	714	Bazz micr	825	rept	912	Rebo henu
031	serp	125	pallens	215	flac	302	aloi	393	Lept rupa	490	roth	579	grac	715	Bazz micr	826	rept	913	Rebo henu
032	serp	126	pallens	216	flac	303	aloi	394	Lept rupa	491	roth	580	grac	716	Bazz micr	827	rept	914	Rebo henu
033	serp	127	pallens	217	flac	304	aloi	395	Lept rupa	492	roth	581	grac	717	Bazz micr	828	rept	915	Rebo henu
034	serp	128	pallens	218	flac	305	aloi	396	Lept rupa	493	roth	582	grac	718	Bazz micr	829	rept	916	Rebo henu
035	serp	129	pallens	219	flac	306	aloi	397	Lept rupa	494	roth	583	grac	719	Bazz micr	830	rept	917	Rebo henu
036	serp	130	pallens	220	flac	307	aloi	398	Lept rupa	495	roth	584	grac	720	Bazz micr	831	rept	918	Rebo henu
037	serp	131	pallens	221	flac	308	aloi	399	Lept rupa	496	roth	585	grac	721	Bazz micr	832	rept	919	Rebo henu
038	serp	132	pallens	222	flac	309	aloi	400	Lept rupa	497	roth	586	grac	722	Bazz micr	833	rept	920	Rebo henu
039	serp	133	pallens	223	flac	310	aloi	401	Lept rupa	498	roth	587	grac	723	Bazz micr	834	rept	921	Rebo henu
040	serp	134	pallens	224	flac	311	aloi	402	Lept rupa	499	roth	588	grac	724	Bazz micr	835	rept	922	Rebo henu
041	serp	135	pallens	225	flac	312	aloi	403	Lept rupa	500	roth	589	grac	725	Bazz micr	836	rept	923	Rebo henu
042	serp	136	pallens	226	flac	313	aloi	404	Lept rupa	501	roth	590	grac	726	Bazz micr	837	rept	924	Rebo henu
043	serp	137	pallens	227	flac	314	aloi	405	Lept rupa	502	roth	591	grac	727	Bazz micr	838	rept	925	Rebo henu
044	serp	138	pallens	228	flac	315	aloi	406	Lept rupa	503	roth	592	grac	728	Bazz micr	839	rept	926	Rebo henu
045	serp	139	pallens	229	flac	316	aloi	407	Lept rupa	504	roth	593	grac	729	Bazz micr	840	rept	927	Rebo henu
046	serp	140	pallens	230	flac	317	aloi	408	Lept rupa	505	roth	594	grac	730	Bazz micr	841	rept	928	Rebo henu
047	serp	141	pallens	231	flac	318	aloi	409	Lept rupa	506	roth	595	grac	731	Bazz micr	842	rept	929	Rebo henu
048	serp	142	pallens	232	flac	319	aloi	410	Lept rupa	507	roth	596	grac	732	Bazz micr	843	rept	930	Rebo henu
049	serp	143	pallens	233	flac	320	aloi	411	Lept rupa	508	roth	597	grac	733	Bazz micr	844	rept	931	Rebo henu
050	serp	144	pallens	234	flac	321	aloi	412	Lept rupa	509	roth	598	grac	734	Bazz micr	845	rept	932	Rebo henu
051	serp	145	pallens	235	flac	322	aloi	413	Lept rupa	510	roth	599	grac	735	Bazz micr	846	rept	933	Rebo henu
052	serp	146	pallens	236	flac	323	aloi	414	Lept rupa	511	roth	600	grac	736	Bazz micr	847	rept	934	Rebo henu
053	serp	147	pallens	237	flac	324	aloi	415	Lept rupa	512	roth	601	grac	737	Bazz micr	848	rept	935	Rebo henu
054	serp	148	pallens	238	flac	325	aloi	416	Lept rupa	513	roth	602	grac	738	Bazz micr	849	rept	936	Rebo henu
055	serp	149	pallens	239	flac	326	aloi	417	Lept rupa	514	roth	603	grac	739	Bazz micr	850	rept	937	Rebo henu
056	serp	150	pallens	240	flac	327	aloi	418	Lept rupa	515	roth	604	grac	740	Bazz micr	851	rept	938	Rebo henu
057	serp	151	pallens	241	flac	328	aloi	419	Lept rupa	516	roth	605	grac	741	Bazz micr	852	rept	939	Rebo henu
058	serp	152	pallens	242	flac	329	aloi	420	Lept rupa	517	roth	606	grac	742	Bazz micr	853	rept	940	Rebo henu
059	serp	153	pallens	243	flac	330	aloi	421	Lept rupa	518	roth	607	grac	743	Bazz micr	854	rept	941	Rebo henu
060	serp	154	pallens	244	flac	331	aloi	422	Lept rupa	519	roth	608	grac	744	Bazz micr	855	rept	942	Rebo henu
061	serp	155	pallens	245	flac	332	aloi	423	Lept rupa	520	roth	609	grac	745	Bazz micr	856	rept	943	Rebo henu
062	serp	156	pallens	246	flac	333	aloi	424	Lept rupa	521	roth	610	grac	746	Bazz micr	857	rept	944	Rebo henu
063	serp	157	pallens	247	flac	334	aloi	425	Lept rupa	522	roth	611	grac	747	Bazz micr	858	rept	945	Rebo henu
064	serp	158	pallens	248	flac	335	aloi	426	Lept rupa	523	roth	612	grac	748	Bazz micr	859	rept	946	Rebo henu
065	serp	159	pallens	249	flac	336	aloi	427	Lept rupa	524	roth	613	grac	749	Bazz micr	860	rept	947	Rebo henu
066	serp	160	pallens	250	flac	337	aloi	428	Lept rupa	525	roth	614	grac	750	Bazz micr	861	rept	948	Rebo henu
067	serp	161	pallens	251	flac	338	aloi	429	Lept rupa	526	roth	615	grac	751	Bazz micr	862	rept	949	Rebo henu
068	serp	162	pallens	252	flac	339	aloi	430	Lept rupa	527	roth	616	grac	752	Bazz micr	863	rept	950	Rebo henu
069	serp	163	pallens	253	flac	340	aloi	431	Lept rupa	528	roth	617	grac	753	Bazz micr	864	rept	951	Rebo henu
070	serp	164	pallens	254	flac	341	aloi	432	Lept rupa	529	roth	618	grac	754	Bazz micr	865	rept	952	Rebo henu
071	serp	165	pallens	255	flac	342	aloi	433	Lept rupa	530	roth	619	grac	755	Bazz micr	866	rept	953	Rebo henu
072	serp	166	pallens	256	flac	343	aloi	434	Lept rupa	531	roth	620	grac	756	Bazz micr	867	rept	954	Rebo henu
073	serp	167	pallens	257	flac	344	aloi	435	Lept rupa	532	roth	621	grac	757	Bazz micr	868	rept	955	Rebo henu
074	serp	168	pallens	258	flac	345	aloi	436	Lept rupa	533	roth	622	grac	758	Bazz micr	869	rept	956	Rebo henu
075	serp	169	pallens	259	flac	346	aloi	437	Lept rupa	534	roth	623	grac	759	Bazz micr	870	rept	957</	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME **Harlech Cliff**

Map Ref **SH573295** Data bank ref

NCC Region **North Wales**

County **Gwynedd**

Internal ref **8153**

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI	
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County Flora site. State ref - **Benoit, P.M. & Richards, M. 1963 p 20060.**

Local Information site. State source - **J. Howells, D.R.O., N.C.C.**

Discovery etc. (Describe) -

INTEREST

Plants	General	Local	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - **Boulder clay cliff with earth slips and runnels. Low healthy vegetation of undershrubs & grasses. Marshy ground. Sea-wall & dune.**
 Geological)

RAILWAY REGION **LMR** DIVISION **Crewe**

AREA —

Address of Area Civil Engrs Office **W.G. Cutting (C.E.)**

Telephone number
**Rail House
 Gresty Rd.
 CREWE
 Tel. No. 0270 55123 extn. 2914.**

Name of railway line **Pwllheli branch, from Machynlleth and Shrewsbury**

Access at **Llandanwg Station at SH570286** Mileage post **109 1/4 → 110.**

NOTIFICATION

Site notified to BR

Management agreement (see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
11th July 1979	Dr. C.M. Sargent, B.M. Carlson & J.O. Mountford	Has good population of local spp. notably <u>Cataglyphis</u> <u>meridum</u> which is rare in Wales. Provides a good exposure of cliff and low heath vegetation. It is sparse - rich and adds considerable diversity to the adjacent Morfa Harlech. * The site is well known, see P.M. Benoit, and has a good bryophyte flora which we did not examine. Would recommend further study especially on the cliff where dips are difficult to scale, and lots to be made of groups we did cover. Should be noted and some agreement with B.R. made since the <u>Cataglyphis</u> particularly is very vulnerable to increased spraying.

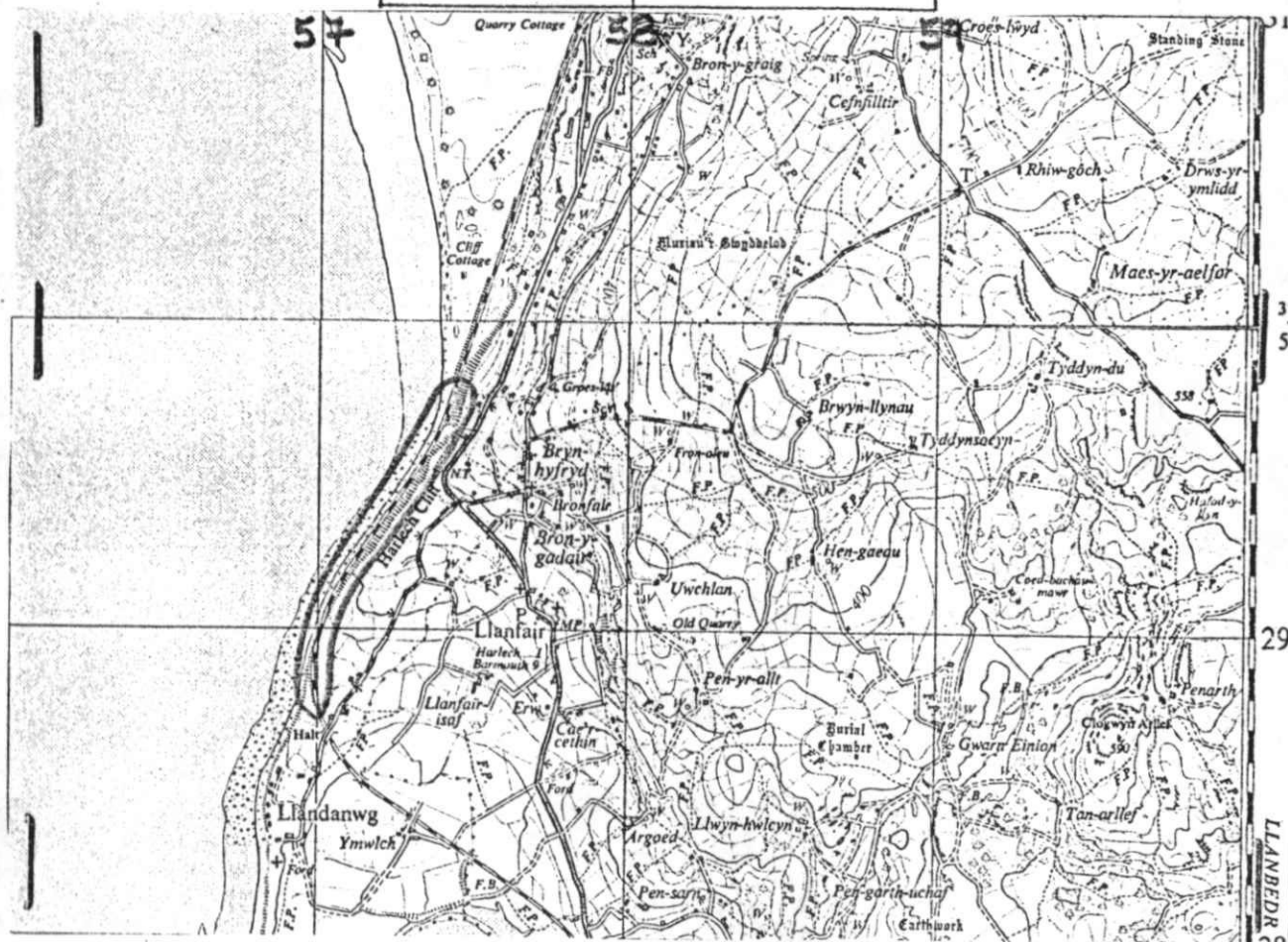
Continue overleaf

FILE OPENED BY **ITE, Monks Wood**

DATE **14th Jan. 1980**

LOCATION STATUS

<u>Accurate</u>	Approximate
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SKETCH MAP

Dunes with adjacent BR lands derived from them with *Ammophila*, *Fesca*, *Carex* etc.

MPI10

Sea-wall with flat top
push with level of line
base except for
Phragmites &
Scirpus maritimus
rocks

MPI09 3/4

MPI09 1/2

rocky
concrete

MPI09 1/4

Llandanwg

Llandanwg Halt

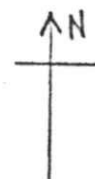
A496 & Llanfair

long steep slope covered in forb-rich healthy
vegetation of *Ulex*, *Erica*, *Rubus* & *Thymus* with
grassy patches of *Plantago* + *Jasione*, *Compositae* &
Sorrel!

Earth-slips & fine sand/sieve with open veg. of
Anthyllus & other leguminosae

Coarse herb-rich grassland similar to overgrown version of cliff with
more bromide etc & low bushes

Continue overleaf



Horlech
Single track line

Altitude 0' → 165'

Local Geology Blown Sand nr. MP110; Boulder Clay over Cambrian Sandstone elsewhere.

Neighbouring landuses Rocky beach, dunes & sea. Rough grassland, garden etc.

DIRECTION FROM ACCESS

(N)	E	W	S	E	W
-----	---	---	---	---	---

 or

BOTH

Dist from * access point	0 →	300 →	1100 →	300 →	300 →	300 →	These last two by rail
	300m.	1100m	1300m	1300m	1300m	1300m	
Side of track °	both	NW	NW	SE	SE	SE	[column 5 & 6]
Landform x	Cut x 2	Wall	Cut	Cut	Cut	Cut	are scattered
Aspect-degrees	260°/80°	—	145°	325°	325°	325°	all along the
Width-metres	15m x 2	5m.	c. 7m	→ 50m	→ 40m	→ 30m	cliff drops at
Disturbance +	—	'Spray'	—	—	Slippage	Runnels	several places

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

143 spp including the rare Catapodium maritimum & Lathyrus sylvestris, plus the locally uncommon Equisetum talmataia and Sagina maritima. Many species typical of the area occur and the bryophytes are evidently uncommon, and varied.

General veg characteristics and habitat description indicate side of track

The area north from the AP is a medium cutting covered in forb-rich rough grassland of Arrhenathera, Dactylis, Holcus plus much low bramble, blackthorn etc, and occasional patches of Lathyrus sylvestris [column 1]. When the line reaches the coast the steep sea wall runs along the W side. This gives access to the line and steps level with the P.W. in a broad flat of stone flags. There is little vegetation here except a good population of Catapodium maritimum and Plantago coronopus with occasional other marines notably Sagina maritima [column 2]. The line leaves the shore near MP110 and goes into the dunes at the far SW end of Monte Harlech. The veg. on the NW side of the line here is essentially continuous with the dunes and is dominated by Ammophila, Carex arenaria and Festuca rubra with Rosa spinosissima, Viola c. carinata & Pheum abaricum [column 3]. The bulk of the site is the high, eastern cliff of boulder clay and sand which is never steep but has slope angles in excess of 55°. The main cover is a low dwarf-shrub heath of Ulex, Erica, Lonicea and bramble with much forb-rich grassland inter-mixed of fescue/bent with Jasion, Rumex acetosella, Hypochaeris plus other composites [column 4]. In several places there have been landings and the more open vegetation on these slopes is forb dominated with Anthyllis, Lathyrus sylvestris and other leguminosae being especially significant. The steps include fine screes of sandy material [column 5]. At several points on the cliff runnels scab the surface. Particularly below there are supporting tall stands of Oenanthe crocata over a carpet of Chrysosplenium oppositifolium. The upper parts at the track edge have Glyceria, and the mainly grassland around the runnels has a rich tall grassland with Lychnis, Equisetum talmataia and Dactylorhiza fishii [column 6]. Patches of low scrub of Urtica etc. do occur near the runnels.

PREFERRED MANAGEMENT

Grazing - little else is practical

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

Sea-spray on the wall and natural erosion occur - no artificial management

form 11.7.79.

ANIMAL RECORD	REGN. LMR	DIVN. CREWE	AREA	SITE B153
SITE NAME Harlech Cliff	RECORDER B.M. Carleton	WEATHER Warm & sunny, as evening drawn, but dusky cooler. Dry with a light breeze off the sea.		LANDFORM ① 2 3 4 ⑤ 6 7 Cutting with flats above which on reaching the sea- shore at 109 1/2 has a sea- creek on the W. side. A high cliff on the E.. Northward it enters the dunes in a loco cut.
M.P. 109 1/4 → 110	TIPPING —	DATE 11.7.79	TIME 2015 → 2130	
COUNTY Gwynedd.	N.L.U. Maritime, rough grass & housing.			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	2	700	The cuttings provide cover & shelter on the coast with a forb-rich vegetation with many opportunities for phytophagous insects. The cliff is more exposed but provides a good flora again and hole-nesting etc. for birds. The dune area is incidental to the site. There is only a little scrub but this is significant in such an exposed area. The sea-wall is almost bare of vegetation and very exposed — the rocks of the shore beds are far better. A good place for the fauna of cliff grassland & beach.	Birds (small)	3	3	2
1	3	4	700		Birds (large)	2	2	1
1	6	20	703		Mamm. (small)	3	3	2
2	2	5	700		Mamm. (large)	2	1	1
3	0	2	700		Other verts.	.	2	2
5	6	5	700		Lepidoptera	3	.	3
5	8	10	700		Other insects	3	3	3
5	8	15	700		Other inverts.	3	3	3
6	8	15	700					

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Blackbird	4240	2	Rabbit	2	Small Tortoiseshell	
House Sparrow	5250	4			6-spot Burnet Moth	
Swift	3270	2			Pieris ater	
Corvid Crow	3681	1			<u>Capea nemoralis</u>	
Woodpigeon	2990	1			Rhytid moth	
					Various:	
					Diptera	
					Hemiptera (hoppers)	
					Orthoptera	

contd. over

contd. over

contd. over

contd. over

contd. over

contd. over

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME **Broad Water**

Map Ref **SH565030** Data bank ref

NCC Region **North Wales**

County **Gwynedd**

Internal ref **B156**

STATUS

Part of	Adjacent to	NMR	PNNR	LNR	SSSI	
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) -

INTEREST

Plants	General	Local	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - *Generally poor except for forb-rich sandy turf on flat*
)
 Geological)

RAILWAY REGION **LMA** DIVISION **Crewa** AREA —

Address of Area Civil Engrs Office **J.G. Cutting (D.C.E.)**
Telephone number

*Rail House
 Gresty Rd.
 CREWE.*

Tel. No. 0270 55123 extn. 2914

Name of railway line **Pwllheli branch (from Machynlleth & Shrewsbury)**

Access at **Minor rd. adjacent at SH565031**

Mileage post **90 1/2**

NOTIFICATION

Site notified to BR

Management agreement
 (see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
13th July 1979	B.M. Carleton & J.O. Mountford	<i>Poor vegetation even in a B.R. context but with 4 spp. of local worth in habitats apparently rare or absent in neighbouring area. An example of how even on average to poor sites on B.R. land may provide new habitat for rare or local spp. * Should be noted and the sp.-populations monitored as obviously not worth scheduling but some contact with B.R. to protect the notable plants is advisable.</i>

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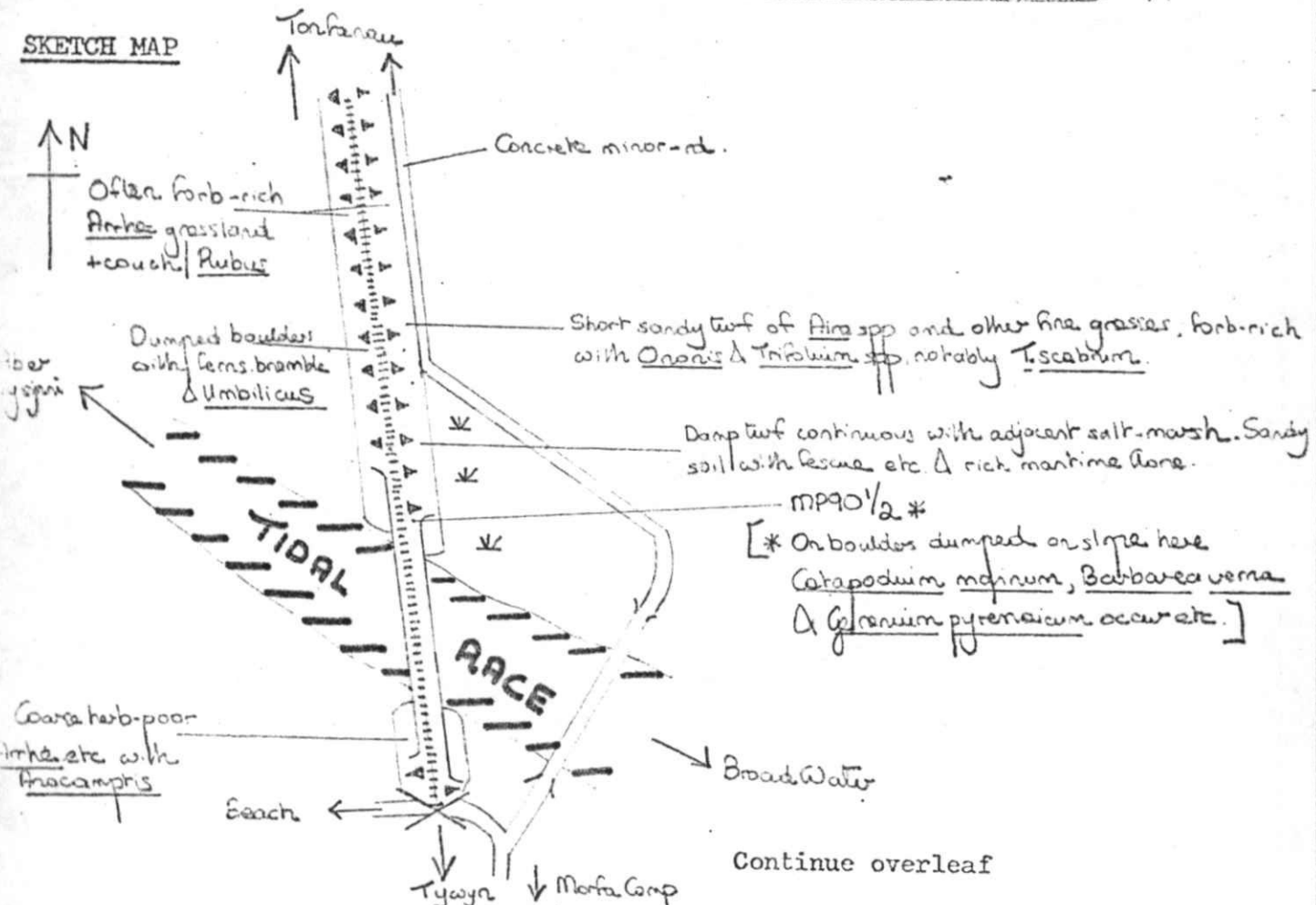
DATE **15th Jan 1980**

LOCATION STATUS

<u>Accurate</u>	Approximate
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SKETCH MAP



Continue overleaf

Altitude → 20'Local Geology Alluvium by river; blown sand by railway.Neighbouring Landuses Estuary, salt-marsh & dune. Plus rough grassland and road.

DIRECTION FROM ACCESS

N	E	W	(S)	E	W
---	---	---	-----	---	---

 or BOTH

Dist from * access point	0 → 200m	100 → 150m	50 → 125m	125 → 180m	180 → 200m	275 → 300m		
Side of track °	both	W.	E.	E.	E.	both		
Landform x	Embs.	Emb.	Flat	Flat	Emb.	Embs.		
Aspect-degrees	265°/85°	265°	—	—	85°	265°/85°		
Width-metres	8m x 2	8m	4m	4m	7m	8m x 2		
Disturbance +	No. Tip.	S. Tip.	—	—	S. Tip.	L. Tip.		

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat; Cut; Emb; Combination; Complex; Steep; Moderate; Structure, etc.
- + Severe; Moderate; Light; Tipping; Ballast; Cinder; Fire; Clearance; Works, etc.

FEATURES OF SPECIAL INTEREST Good representative maritime flora. Presence of *Geranium pyrenaicum* & *Arctostaphylos*, plus *Trifolium scabrum*, all rare in Marlborough. Presence of generally local or rare *Cotyledon maritimum* & *Barbarea verna*.

General vegn characteristics and habitat description indicate side of track

The major vegetation cover on the low embankment north from the bridge is a coarse often forb-rich *Arrhenatherum* grassland with *Agropyron* and *Festuca rubra* plus patches of low brambles. [column 1]. There have locally been areas where boulders and rubble have been dumped on the bank, elsewhere cinder & ballast occur. The boulder area on the W. side is now largely overgrown by bramble, a number of ferns, *Sedum* & *Umbilicus*. It is now almost entirely non-vegetated in the grassland adjacent. [column 2]. The rubble area by the MP next to the bridge is much more disturbed and has an open weedy flora with *Cotyledon maritimum*, *Geranium pyrenaicum* & *Barbarea verna* as well as Poppy, Cress & *Artamisia* [column 5]. The flat along the bottom of the west side is much the same as the ground above except that *Honkenia* occurs. The eastern flat however is quite varied. The northern drier part is a low sandy turf of fescue/bent with *Fine* spp. It is very herb- & sp-rich and various leguminosae play an important cover role, especially *Ornithopus* and *Trifolium* spp., notably *T. scabrum*. *Carostem diffusum* & *Pilosella* as well as *Erodium* are also common [column 6]. Further south in the lower-lying damper parts the sandy turf has a large number of salt-marsh spp. occurring: *Cochlearia*, *Plantago maritima*, *Spergularia media*, *Armaria*, *Glaux*, *Triglochin* *maritima* etc.. The main cover is still fescue grassland however [column 4]. South of the bridge the embankment is poorer in spp. and the grassland rough *Arrhenatherum*. However two spikes of *Arctostaphylos* were found [column 6].

PREFERRED MANAGEMENT

Grazing/mowing of grass:

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None but tipping.

form 13.7.79.

ANIMAL RECORD	REGN. LMA	DIVN. CREWE	AREA	SITE B156
SITE NAME Broad Water	RECORDER B.M. Carleton	WEATHER Cool and cloudy, with very occasional sunny spells. Dry with a slight breeze		LANDFORM 1 2 3 4 5 6 7 Low embankment either side of bridge over tidal race. Flats clear at the bank bottoms by the fence.
M.P. 90 1/2	TIPPING Quite heavy of ballast & rubble, esp. nr. bridge	DATE 13.7.79		TIME 1010 → 1100
COUNTY Gwynedd	N.L.U. Various maritime			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
1	6	65	700	Mainly poor rough grassland with occasional patches of bramble. The flat below house a salt-marsh or sand-dune flora. Boulder & ballast dumped in 9 large patches. The bank provides some cover at the mouth of the Broad Water and a diversification of the flora for food, but it is not so important as the dune systems, to the W. and the hills above.	Birds (small)	2	2	1
4	8	15	703		Birds (large)	1	1	1
5	1	10	700		Mamm. (small)	2	2	1
5	6	10	700		Mamm. (large)	1	1	0
					Other verts.		2	1
					Lepidoptera	2		2
					Other insects	3	2	2
					Other inverts.	3	2	2

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Skylark	3570	2	Rabbit	1	Small Tortoiseshell	
Lithat	5370	1			Meadow Brown	
Cormorant	0350	1			Pyrallid moth	
Oyster Catcher	1820	1			Lasius sp. Δ hills	
Starling	5180	1			Buff-haired Bumble-bee	
					Various:	
					Diptera	
					Hemiptera esp. (Frog-hopper)	

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RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME **Glaslyn**

Map Ref **SH58.39.** Data bank ref

NCC Region **North Wales**

County **Gwynedd**

Internal ref **8157**

STATUS

Part of	Adjacent to	NNR	PNNR	LNR	SSSI
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) -

INTEREST

Plants	General	Local	Rare	Very rare
Animals	Insects	Reptiles	Birds	Mammals

Habitat) describe - **Scrub and carr, also mixed marsh & rough grass-land.**
)
Geological)

RAILWAY REGION **LMR** DIVISION **Crewa**

AREA —

Address of Area Civil Engrs Office **W.G. Cutting (D.C.E.)**

Telephone number

Rail House

Gresty Ho.

CAEWE.

Tel. No. 0270 55123 extn. 2914.

Name of railway line **Pwllheli branch (from Machynlleth & Shrewsbury)**

Access at **Quarry access lane crossing at SH 594389**

Mileage post **118³/₄**

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
13th July 1979	B.M. Carleton & J.O. Mountford	<p>Good site providing a line of cover in very open pasture land. Provides also a diversity of marshland and drier grassland in the SSSI. The presence of sparse rose in this area on the grassy embankment is also of note. Generally the BR lands add diversity and new spp to the SSSI, and complements its function.</p> <p>Should be notified to BR and the NCC may consider extending schedule to make the SSSI a better rounded and self-sufficient unit.</p>

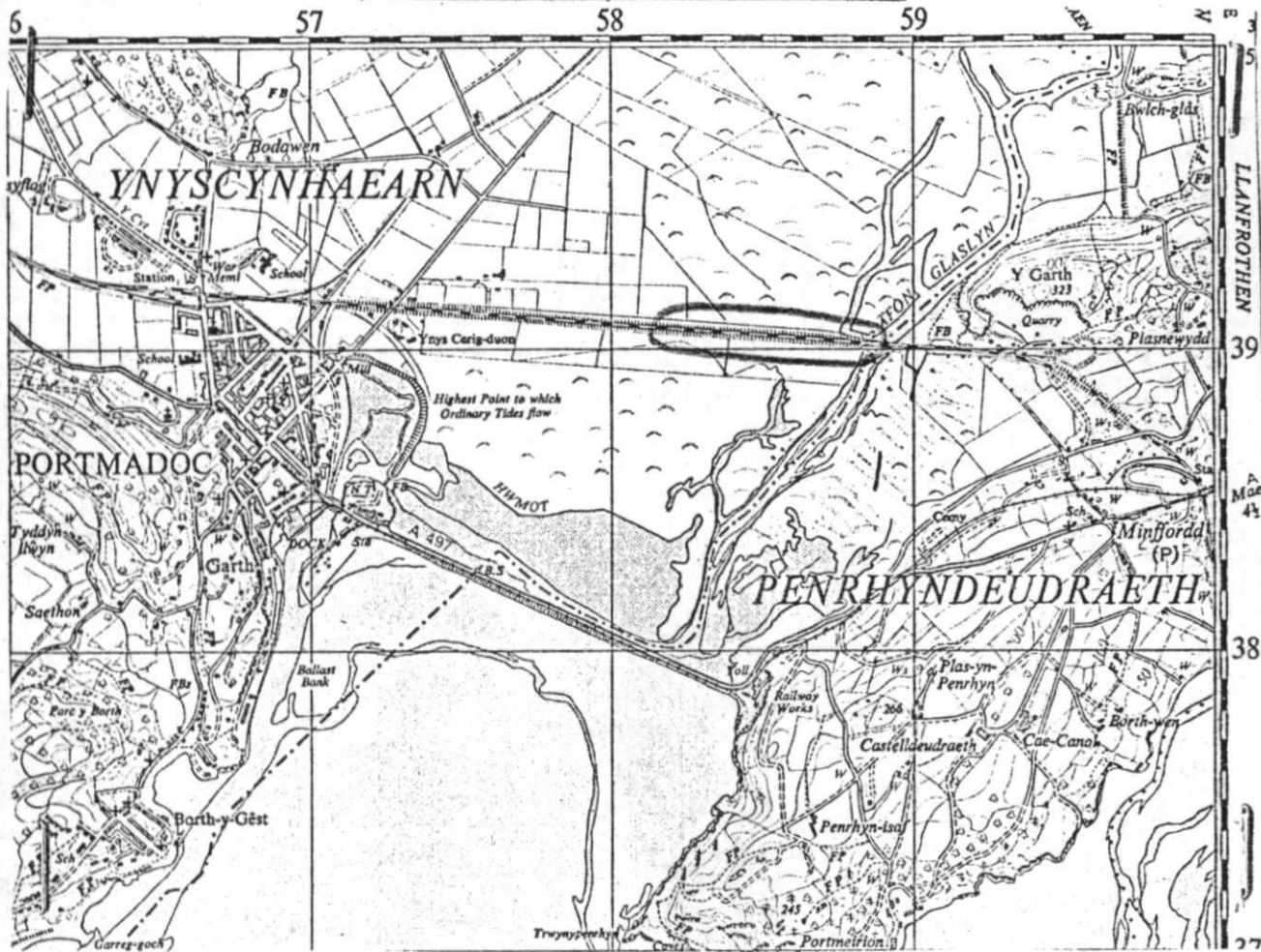
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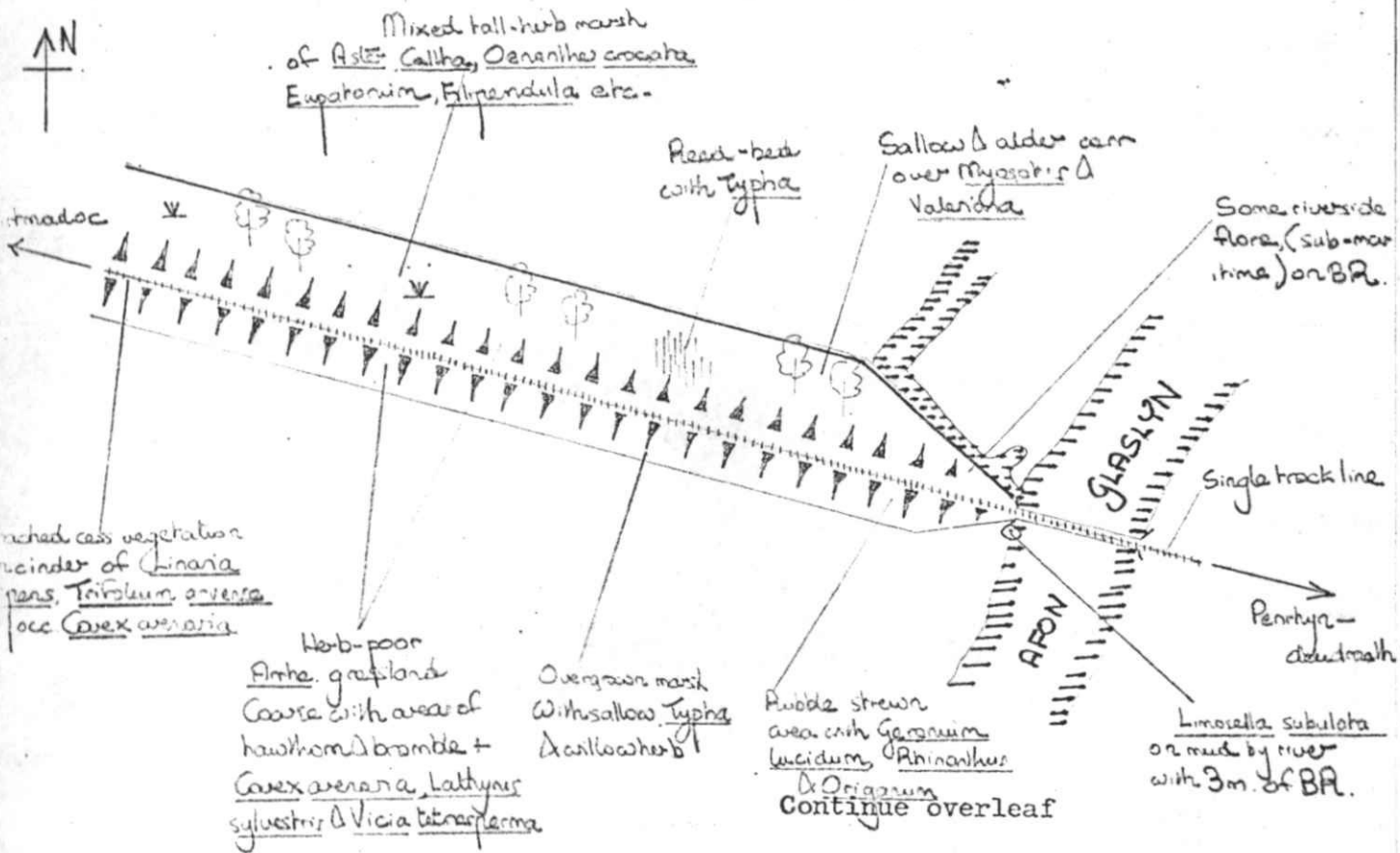
DATE **15th Jan. 1980**

LOCATION STATUS

Accurate	Approximate
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SKETCH MAP



Altitude 5' → 25'Local Geology AlluviumNeighbouring landuses Rough pasture and river

DIRECTION FROM ACCESS

N	E	W	S	E	W	or	BOTH
---	---	----------	---	---	---	----	------

Dist from * access point	500 → 1200m.	500 → 1200m.	500 → 1200m.	500 → 1200m.	500 → 600m	550 → 1200m	550 → 1200m	550 → 1200m
Side of track °	both	S	N	S	N	N	N	N
Landform x	Flats	Emb.	Emb.	Flat	Flat	Flat	Flat	Flat
Aspect-degrees	—	195°	15°	—	—	—	—	—
Width-metres	2x2m.	8m.	8m.	5m	3m	20m	→15m	→20m
Disturbance †	S.Cind.	L.Tipp.	—	—	—	—	—	—

- * If site is both sides of access point, precede distance by cardinal point
 ° Indicate side of track by compass cardinal point
 x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
 † Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Presence of Vicia tetrasperma — v. rare in this area. Linaria repens & Cotyledon rigidum are both known locally but are uncommon in the region. Lathyrus sylvestris as a widespread sp. In these Welsh coast lines. Good varied marsh flora and some riverside flora including Eleocharis unguicula, and very rarely Limnolobos subulata (just outside to the S.)
General vege characteristics and habitat description indicate side of track

The cross by the track of these lightly-used line is naturally not heavily-managed but has an open forb-rich vegetation of Linaria repens, Phytolacca americana and Carex acuticarpa on the cinder in patches [column 1]. The embankment is covered in herb-Δ species-poor Arrhenatherum grasslands with Dactylis and Festuca mixed in. There are occasional patches of thorn scrub and bramble. Carex acuticarpa is common on the more level parts near the line and patches of Lathyrus sylvestris cover the slope. The south side has a small population of Vicia tetrasperma and especially near the bridge has area of dumped rubble with a different flora including Geranium leucoidum, Rhinanthus, Centranthus and Origanum. [column 2]. The north side has no dumping and is rather with a little more scrub. [column 3]. The flat below has no ditch but some waterlogged parts and is generally damp with sallow scrub, Typha stands and tall-herb marshes of off reeds and willow herb. There is some ditch area and the flat is too narrow to be of great value or diversity. [column 4]. The northern flat is very good however and much wider — up to 20m. or more — with a boundary ditch and a number of outland communities. Near a branch of the Glaslyn the ditch joins the river and the northern land includes a fringe of brackish swamp with Scheuchzeria palustris, Scirpus maritimus & Eleocharis unguicula, plus off Asarum buttes. [column 5]. Further west the main cover is a varied tall-herb marsh with patches dominated by Oenanthe crocata, Aster novi-belgii and Filipendula, Calla, Carex otrubae, Eupatorium, Iris, Galium palustre, Lycnis, Lysimachia nemoralis and Lythrum are all common in a very colourful stand [column 6]. This marsh passes into the reed-swamp area which have a similar if poorer flora and lower of the low spp. in patches on the flat all along. Phalaris, Phragmites & Typha compose the main cover [column 7]. Finally there are good patches of taller scrub and sallow scrub colonizing the flat which show a somewhat sterile flora but especially where the shade is densest have Myosotis scorpioides and Valeriana in good populations. The scrub cover in places is continuous and probably a more extensive than the marshland of herbs [column 8].

PREFERRED MANAGEMENT

Some cutting and grazing of the grasslands and mowing of the marsh.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None but tipping

Jom

ANIMAL RECORD	REC.N. LMA	DIVN. CREWE	AREA	SITE 8157
SITE NAME Glaslyn	RECORDER B.M. Coulton	WEATHER Dull & cloudy but with very occasional sun. Cool with slight breeze.		LANDFORM 1 2 3 4 5 6 7 Medium embankment with small flats by line & a broad flat on the North side.
M.P. 118 3/4	TIPPING —	DATE 13.7.79	TIME 1220 → 1305	
COUNTY Gwynedd	N.L.U. Rough pasture river			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	10	700	Much coarse grassland with occasional thorn scrub on the embankment. The flats below have wetland communities with alder & sallow scrub common and marsh dominated by a variety of tall herbs, plus reed. Good bird habitat, an area of cover in open pasture with a lot of feeding plus areas for foraging nearby. Is the main scrub area for a long way and forms a corridor of cover from the Glaslyn to the hills around Portmadoc. The diversity of the plant list and habitat make this also a potentially good invertebrate site though very little was noted. A very useful complement to the SSSI.	Birds (small)	4	4	4
0	6	30	700		Birds (large)	3	2	3
1	6	30	700		Mamm. (small)	3	2	2
2	2	20	700		Mamm. (large)	2	2	1
2	4	5	700		Other verts.	2	2	2
2	4	5	700		Lepidoptera	3	.	3
3	2	5	700		Other insects	3	3	3
3	2	5	700		Other inverts.	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Greenfinch	5330	3			Tabanid Fly	
Bloodpigeon	2990	1			Buff-tailed Bumble Bee	
Willow Warbler	4720	2			Varnis:	
Swift	3270	2			Other Diptera	
House Sparrow	5250	1			Hemiptera	
Reed Bunting	5740	1			Gastropoda	
Blackbird	4240	1				

contd. over

contd. over

contd. over

contd. over

contd. over

contd. over

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Embsay

Map Ref SE000526 Data bank ref

NCC Region North East

County North Yorks

Internal ref 8160

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI	
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - Examined as a large cutting on limestone

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Good calcicolous grassland, plus scrub and cinder waste
 Geological)

RAILWAY REGION LMA DIVISION Preston

AREA Helli field

Address of Area Civil Engrs Office S. Woof
Telephone number Helli field Str.
North Yorks.

Tel. No. 072 95 246

Name of railway line Swinder branch (from Skipton) at junction with disused Bolton Abbey line

Access at Minor road bridge under at SE000530 Mileage post 0

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
<u>23rd July 1979</u>	<u>Dr. C.M. Sargent, B.M. Carlston & J.O. Mountford</u>	<u>Good large expanse of semi-natural limestone grassland, herb- species-rich with many typical spp., some of which are local this far north. With the cinder ground and scrub, a pleasant and varied site in suburban/arable area south of the best limestone sites. BR here is preserving a habitat ploughed out in the immediate area.</u> <u>* Recommend site be noted and further surveys of cuttings near Skipton made. Some grazing or cutting would help greatly and on such a quiet line, BR is unlikely to object to volunteers per- forming management work for conservation.</u>

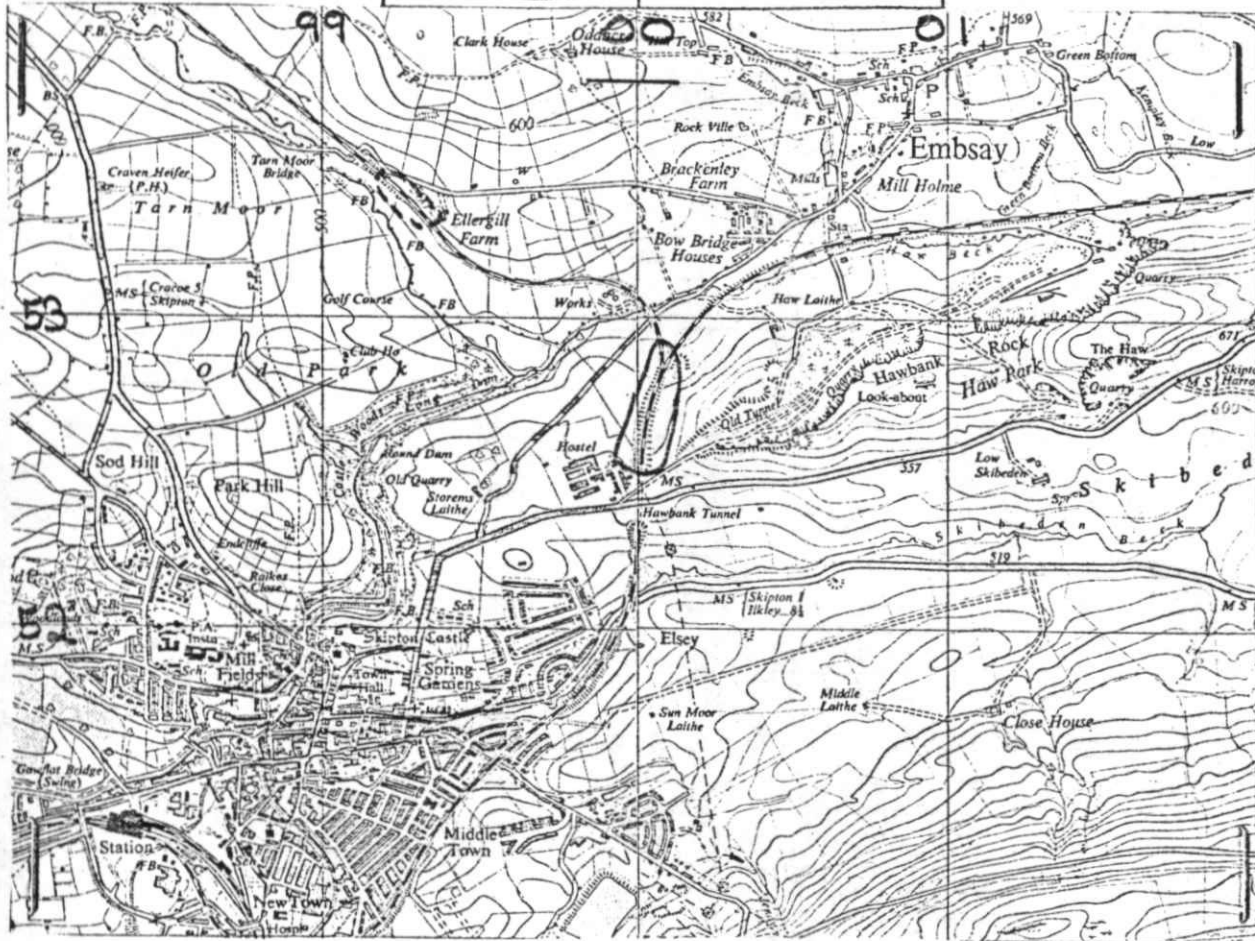
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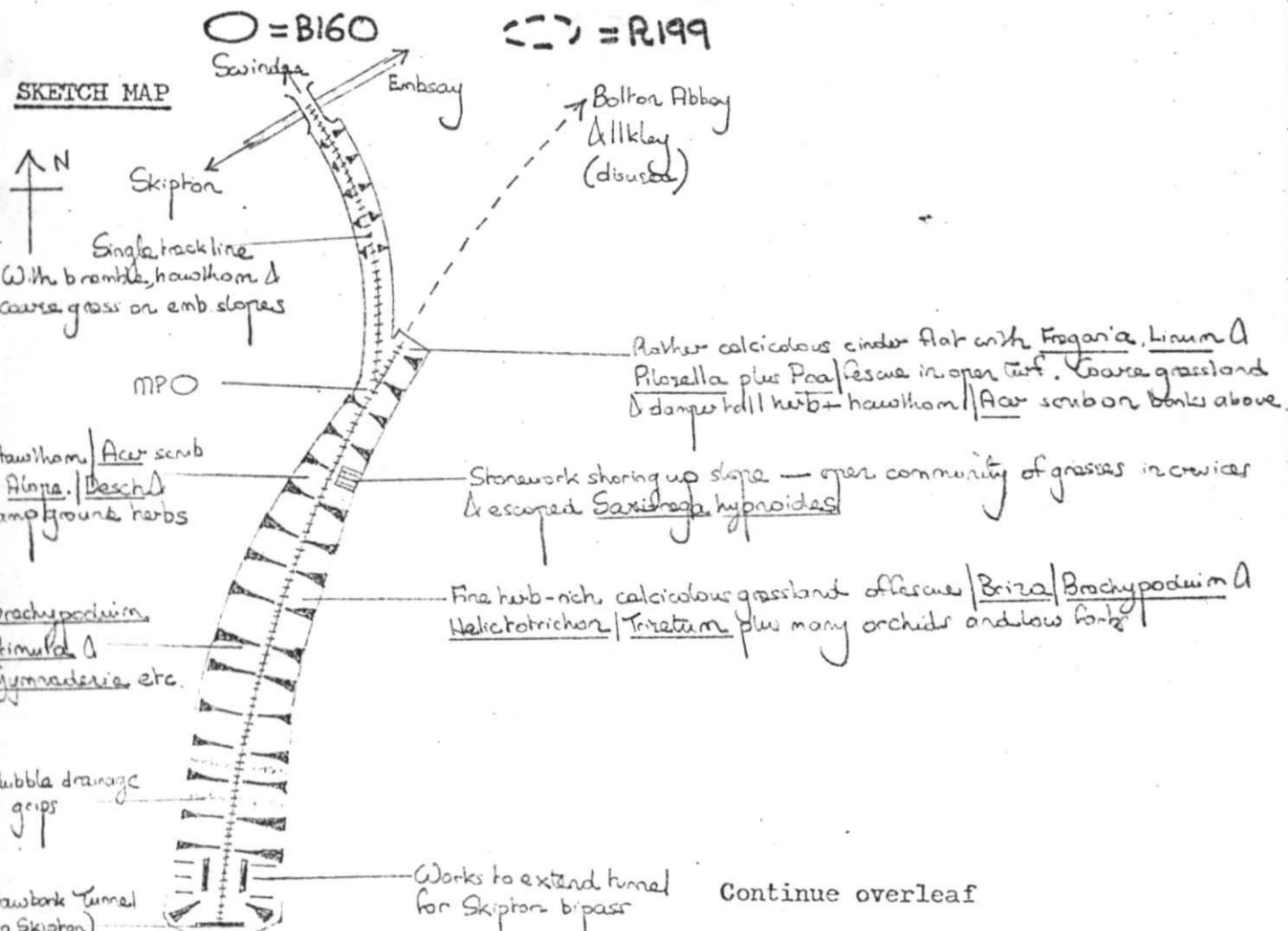
DATE 17th Jan 1980

LOCATION STATUS

Accurate	Approximate
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SKETCH MAP



SITE NAME Embassy

CDB ref

Internal ref B160 (Section 3)Altitude 440 → 510'Local Geology Carboniferous Limestone Series: limestone in cutting shales & sandstone near northern end.Neighbouring landuses Rough pasture

DIRECTION FROM ACCESS

N	E	W	S	E	W	or	BOTH
---	---	---	----------	---	---	----	------

Dist from * access point	0 → 150m.	150 → 200m	150 → 300m	200m	300 → 400m.	150 → 300m.	300 → 400m	350 → 400m
Side of track °	both	E	E	E.	E	W	W	both
Landform x	Embr.	Old line	Cut	Cut/Wall	Cut.	Cut.	Cut.	Cuts
Aspect-degrees	80°/260°	—	285°	285°	285°	105°	105°	105°/285°
Width-metres	2 x 7m.	10m	→20m	10m	→30m	→20m	→30m	→20m
Disturbance +	Mo. Ball.	S. Cind.	—	—	—	—	—	S. Tip.

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Good limestone grassland with orchids including *Gymnadenis* and *Ophrys sphegodes*, some damp taller stuff with *Geum rivale* etc..

General veg characteristics and habitat description indicate side of track

The way to the site from the Embassy road is along a low embankment with a poor typical rough grassland of coarse *Arrhenatherum* with much low bramble and thorn scrub. This is a certain amount of ballasting to disturb the bank. [column 1]. MPO occurs at the junction and on the enclosed bit of the Hkley like there is a cinder flat vegetation of poor grassland on the edges: *Fescue* | *Poa* with *Fragaria*, *Linum* and *Polygonum* in a rather calcicolous flora. The rougher edges have *Aquilegia* as an escape and other coarser weeds [column 2]. The bank on the east side by this is largely sheltered by a small copse on the NL and the BR land has an open scrub of hawthorn and sycamore mainly derived from it. In between the bushy and brambly areas is a rank tall herb grassland with rather poor drainage: *Deschampsia coarctata*, *Abopocurus pratensis*, *Filipendula*, *Geum rivale* & *Cirsium palustre* all occur commonly and orchids quite frequent [column 3]. The opposite bank has an essentially similar vegetation with *Alchemilla* and orchids frequent, but rather less tall scrub [column 4]. One area of the east cutting has been shored up by stonework in a sloped wall. This is quite overgrown and escaped *Saxifraga hypnoides* common in the crevices below with *Geranium robertianum* and sparse grasses and bramble above [column 5]. The best area of the cutting lies to the south where an open calcicolous grassland covers the slope, the shrubs confined to scattered low hawthorn. *Fescue* | *Carex flacca* | *Helictotrichon prebescens* & *Trisetum* dominate with occasional patches where *Brachypodium* becomes abundant. *Linum* and *Lotus*, *Ophrys* & *coarctata*, plus *Campanula rotundifolia* are among the more important herbs [column 6]. The opposite slope is equally rich but damper and cooler with *Brachypodium* and *Gymnadenis*, plus *Achillea ptarmica* notably and *Galium cruciata* are more characteristic of the hay-meadow type vegetation. Foxtail & *Deschampsia* occur again and *Hieracium* sp. is commoner [column 7]. On both sides nearing the end on the tunnel are a number of rubble-filled hollows running down the slope acting as drainage gyps. These are becoming overgrown with pleurocarpous mosses and *Geranium robertianum* [column 8].

PREFERRED MANAGEMENT

Mowing and grazing of grassland.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None bar tipping and works.

Jon 23.7.79.

Continue overleaf

Additional Species	CODE	NAME
001	Acro cord	883
002	Acro cord	884
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118	Acro cord	1000

ANIMAL RECORD	REC. LMA	DIVN. PRES.	AREA HELL.	SITE 8160
SITE NAME Embsay	RECORDER B.M. Coulton	WEATHER Warm and sunny, dry but with fresh cool breeze in exposed parts.		LANDFORM ① 2 3 4 ⑤ ⑥ 7 Large cutting with minor flat above N. from Haubank Tunnel Flat of old Bolton Abbey line & low embankment N. to AP.
M.P. ○	TIPPING None except cinder of old Bolton Abbey line	COUNTY N. Yorks	N.L.U. Rough pasture	DATE 23.7.79
				TIME 1730 → 1815

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	30	700	Deep limestone cutting with grassy slopes, some of it coarse, some fine and down-like, some dry and some somewhat poorly drained. Scrub colonising rougher N. edge. Drainage grips of coarse spoil in line down bank. Old line off to NE! Work on extending tunnel northward to take Skipton bypass in progress. Valuable as providing extensive cover on suburban edge and big enough with scrub to provide nesting & territory. Its main value as a diverse local site for phytophagous insects etc. Average to good site.	Birds (small)	3	3	3
1	1	30	700		Birds (large)	3	3	2
1	6	35	700		Mamm. (small)	3	3	2
4	5	5	703		Mamm. (large)	2	2	1
6	5	10	703		Other verts.		2	1
					Lepidoptera	3		3
					Other insects	3	3	3
				Other inverts.	3	3	3	

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Magpie	3720	1	Bank Vole	2	Common blue	
Scrubwren	3610	2			Scotophagus fly	
Willow Warbler	4720	2			<i>Phagochyta fulva</i>	
House Sparrow	5250	2			<i>Capra nemoralis</i>	
House Martin	3640	2			Buff-tailed Bumble-bee	
Great Tit	3790	2			Glass Snail	
					<i>Vespula</i> sp.	
					Various:	
					Diptera	
					Hemiptera	
					Hymenoptera	
					inc. ant-hills.	

contd. over

contd. over

contd. over

contd. over

contd. over

contd. over

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Stander

Map Ref SD731394 Data bank ref

NCC Region North West

County Lancashire

Internal ref B161

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI	
---------	-------------	-----	------	-----	------	--

County Flora site. State ref - Tavis's Flora of S. Lancs (1963) p. 249

Local Information site. State source -

Discovery etc. (Describe) - Examined as cutting on limestone

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Damp calcicolic grassland; plus coarser calcifuge grassland;
) soupy and tall-hay communities. Phalaris stands.
Geological)

RAILWAY REGION LMR DIVISION Preston

AREA Hellifield

Address of Area Civil Engrs Office S. Woolf
Telephone number Hellifield Stn.
N. Yorks..

Tel. No. 072 95 246

Name of railway line Blackburn → Hellifield.

Access at Farm lane bridge over at SD731394

Mileage post 20 1/2

NOTIFICATION

	With whom	By whom	Date	Ref.
Site notified to BR				
Management agreement (see section 3 for detail)				

VISITS

Date	By whom	Assessment/Action
<u>24th July 1979</u>	<u>Dr. C.M. Sargent,</u> <u>B.M. Cuddeon &</u> <u>J.O. Mouniford</u>	<u>An outstanding site in the local pastoral and urban setting. The railway here provides probably the only local site for calcicolous grassland and a large number of characteristic spp. The site for <u>Primula farinosa</u> was not localized but the cutting is entirely suitable. As well as the limestone influence, there is sufficient diversity of soil and topography to produce a good variety of vegetation, a fine plant list and above average potential for fauna.</u> <u>* Strongly recommend that this site be noted and some management agreement with BR made. The possibility of scheduling the whole cutting should be considered and further work on cutting through the limestone outcrops undertaken.</u>

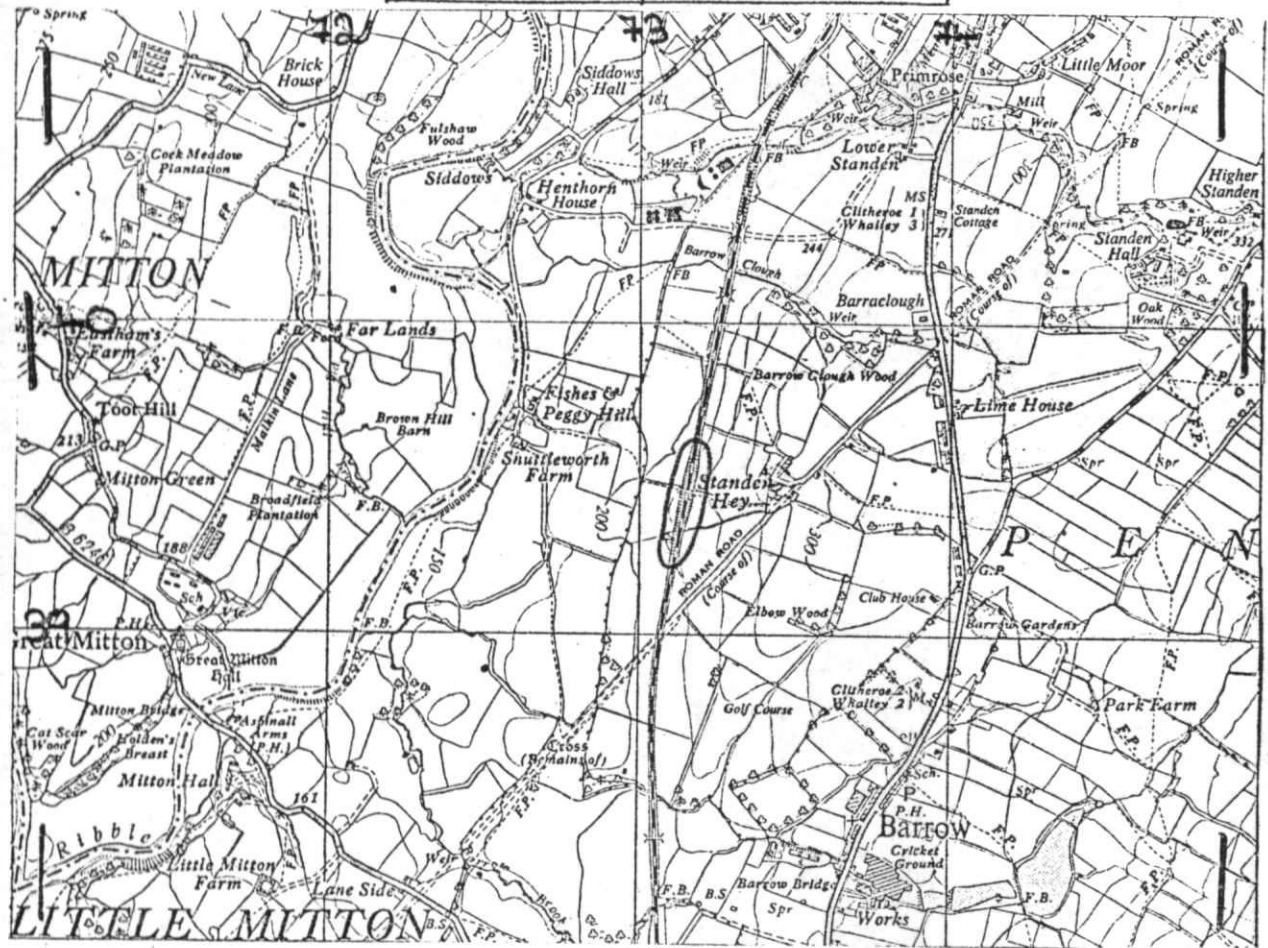
Continue overleaf

FILE OPENED BY ITE Monks Wood

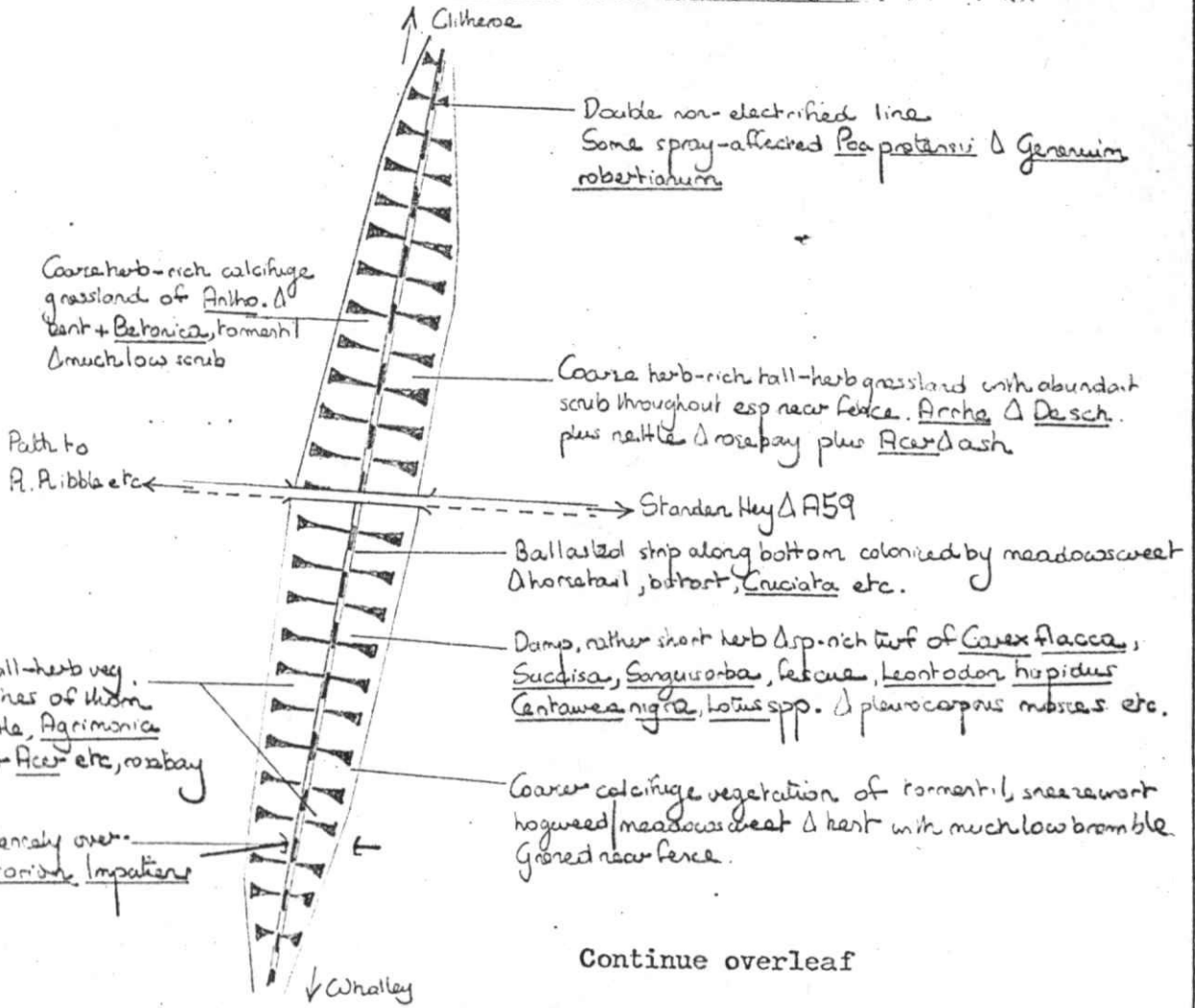
DATE 18th Jan. 1980

LOCATION STATUS

Accurate	Approximate
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SKETCH MAP



Continue overleaf

SITE NAME Stonden

CDB ref

Internal ref

Altitude 210' → 230'

Local Geology

Boulder Clay over Carboniferous [Dinantian: Viséan] limestones of Worston Shale GroupNeighbouring landuses Improved grassland

DIRECTION FROM ACCESS

N

E

W

S

E

W

or

BOTH

Dist from * access point	<u>000 →</u> <u>150m</u>	<u>N.O →</u> <u>150m</u>	<u>S.O →</u> <u>200m</u>	<u>S.c.125m</u>	<u>S.O →</u> <u>200m</u>	<u>S.O →</u> <u>200m</u>	<u>S.30 →</u> <u>150m</u>	<u>S.O →</u> <u>200m</u>
Side of track °	<u>W.</u>	<u>E.</u>	<u>W.</u>	<u>W.</u>	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>
Landform x	<u>Cut./Flat</u>	<u>Cut./Flat</u>	<u>Cut./Flat</u>	<u>Streamch.</u>	<u>Cut.</u>	<u>Cut</u>	<u>Cut.</u>	<u>Flat</u>
Aspect-degrees	<u>100°</u>	<u>280°</u>	<u>100°</u>	<u>100°</u>	<u>280°</u>	<u>280°</u>	<u>280°</u>	<u>—</u>
Width-metres	<u>→14m.</u>	<u>c.12+5m.</u>	<u>c.14+5m.</u>	<u>c.10m.</u>	<u>2m.</u>	<u>→12m.</u>	<u>11m.</u>	<u>6m.</u>
Disturbance +	<u>—</u>	<u>—</u>	<u>—</u>	<u>Pollution.</u>	<u>M. Ball</u>	<u>—</u>	<u>—</u>	<u>Grass</u>

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

Good population of *Gymnadenis, Carex pulicaris, Climacium dendroideum*
Succisa, Alchemilla spp. in an interesting damp calcicolous turf. Populations of *Polygonum bistorta, Impatiens glandulifera* etc. and old record for *Primula farinosa* in area. Cowslip and *Hypericum hirsutum* are both uncommon locally.

General veg characteristics and habitat description indicate side of track

The line north from the AP is poorer. On the west side is a quite herb-rich calcifuge grassland of bent and Anth-xanthum on the hornet's and betony. There is a good deal of low thorn scrub about and patches of rose-bay and other tall herbs [column 1]. The east side has areas of tall scrub especially ash and sycamore quite extensive and particularly important near the fence. Elsewhere the vegetation is tall-herb & coarse grassland in a fairly herb-rich but generally species-poor type with signs of impeded drainage. *Arrhenatherum* & *Dactylis glomerata* are common with huckle and rosette [column 2]. This kind of vegetation type is indeed the main cover throughout the site South of the AP also. Much of the west side is like this but hawthorn and bramble are common and *Agrimonia, Filipendula* etc. are also important spp [column 3]. The scrub/coarse grass/hall herb mixture is also the main type on the east side but there are gaps especially in the north and central parts, and the type is best represented near the AP and well to the south [column 6]. A small eutrophic stream enters the SW corner of the site and flows under the line. It is mainly overgrown with dense stands of *Phalaris, Impatiens* and *Eupatorium*, the first of these also being common on the E side [column 4]. The lower part of the E bank has had ballast and cinder dumped upon it well in the past and there is now continuous vegetation cover, but this is notably poorer & cover being made up of meadowsweet & hornet's, plus bistort and *Crucifera* [column 5]. The best area is the middle & upper part of the E slope from c. 30m. S. of the AP. There is a damp very herb-Asp-rich calcicolous grassland of *Carex flacca* & *lescuri*. Many forbs are important but particularly *Succisa, Leontodon hispidus* and *Lotus uliginosus* below; *Lotus corniculatus* and *Alchemilla* spp above; and *Sanguisorba, Centaurea nigra* orchid and pleurocarpus mosses generally, notably *Climacium*. The quadrats (2x2m) all have over 30 vascular plants in all. *Carex pulicaris* occurs frequently, and *Primula farinosa* could be on entirely possible plot [column 7]. Near the top with the boulder clay influence hornet's, snarewort & bent become commoner with *Arrhenatherum/Dactylis* and hogweed/meadowsweet on the flat which has been grazed from the neighbouring land [column 8]. *Poa* & herb rosette have been sprayed on the PCW.

PREFERRED MANAGEMENT

Scrub removal plus mowing/grazing of grassland.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

Spray effects on PCW edges. Some tipping.

24.7.79 Jom.

Continue overleaf

SIDE OF TRACK

N	E	W	S	E	W
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DATE 24.7.79 RECORDER CMSargent/JOMantford

GRASSES	CODE	NAME	FRUIT	SEED	REMARKS
26 Agropy	211	<i>Althium felix-fem</i>	pr	2009	
35 Agros	408	<i>Carex pulicaris</i>	pr	2011	
39	1828	<i>Hieracium sp.</i>	pr	2012	
41 Aiza			pr	2013	
42 Alope			pr	2014	
44 Antho			pr	2015	
46 ARRIE			pr	2016	
220 Avena			pr	2017	
249 Brach			pr	2018	
250			pr	2019	
251			pr	2020	
252			pr	2021	
253			pr	2022	
254			pr	2023	
255			pr	2024	
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257			pr	2026	
258			pr	2027	
259			pr	2028	
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261			pr	2030	
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263			pr	2032	
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482			pr	2251	
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485			pr	2254	
486			pr	2255	
487			pr	2256	
488			pr	2257	
489			pr	2258	
490			pr	22	

BRYOPHYTES

DATE 24.7.79

RECORDER CM Sargent

Additional Species NAME

CODE

001	Acu	muti	0874	viri	185	rufe	269	osmu	363	myur	460	Pleu	acum	546	pacu	681	Adci	deci	790	Leio	badc	883	laey
003	Acro	cord	089	arge	186	scir	272	rufu	364	siri	461	subu	acum	547	pusi	683	Anas	arca	791	bant	884	plian	
004	Arg	0892	lana	089	187	subu	274	taxi	365	Lept	462	Pleu	scir	548	recu	684	Anas	doni	794	turb	885	thuj	
006	garm	090	bico	090	188	subu	275	viri	366	Lept	463	Pleu	scir	549	trif	686	Anth	iola	796	Leje	886	quad	
008	strif	091	caes	091	189	viri	276	Font	367	Lept	464	Pohl	acum	551	Sema	688	Anth	huas	801	lama	887	Pril	
008	strif	093	cana	093	190	aspe	276/1	anic	368	Lept	465	albi	annot	554	Spha	690	Alpha	punc	801/2	azor	888	Pull	
008	trif	093	capu	093	191	grac	276/2	anic	368	Lept	466	annot	555	555	comp	691	Alpha	mior	803	lame	889	puk	
010	Alol	094	capu	094	192	grac	277	anic	369	Lept	467	annot	556	556	comp	692	Barb	atla	804	pate	890	Radu	
010	Alol	096	capu	096	193	grac	278	anic	370	Lept	468	annot	557	557	comp	693	Barb	atla	805	ulic	892	comp	
012	Ambi	097	erct	097	194	grac	279	anic	371	Lept	469	annot	558	558	comp	694	Barb	atla	806	pinu	894	lind	
013	Ambi	099	erct	099	195	grac	280	anic	372	Lept	470	annot	559	559	comp	695	Barb	atla	807	rept	896	Rebo	
014	Ambi	100	erct	100	196	grac	281	anic	373	Lept	471	annot	560	560	comp	696	Barb	atla	808	rept	897	Rjoc	
015	Ambi	105	erct	105	197	grac	282	anic	374	Lept	472	annot	561	561	comp	697	Barb	atla	809	rept	898	ladi	
016	Ambi	107	erct	107	198	grac	283	anic	375	Lept	473	annot	562	562	comp	698	Barb	atla	810	rept	899	mult	
019	comp	110	erct	110	199	grac	284	anic	376	Lept	474	annot	563	563	comp	699	Barb	atla	811	rept	900	pulin	
020	serp	111	erct	111	200	grac	285	anic	377	Lept	475	annot	564	564	comp	700	Bazz	atla	812	rept	901	pinu	
021	Amph	112	erct	112	201	grac	286	anic	378	Lept	476	annot	565	565	comp	701	Bazz	atla	813	rept	902	pinu	
022	Mou	113	erct	113	202	grac	287	anic	379	Lept	477	annot	566	566	comp	702	Bazz	atla	814	rept	903	boyr	
022	Mou	113	erct	113	203	grac	288	anic	380	Lept	478	annot	567	567	comp	703	Biaz	pusi	814	rept	904	cris	
023	Andr	114	erct	114	204	grac	289	anic	381	Lept	479	annot	568	568	comp	704	Biaz	pusi	815	rept	909	glau	
025	Andr	121	erct	121	205	grac	290	anic	382	Lept	480	annot	569	569	comp	705	Caly	argu	816	rept	910	soro	
026	Anoc	122	erct	122	206	grac	291	anic	383	Lept	481	annot	570	570	comp	706	Caly	argu	817	rept	913	soro	
027	Anoc	123	erct	123	207	grac	292	anic	384	Lept	482	annot	571	571	comp	707	Caly	argu	818	rept	916	wara	
028	Anom	129	erct	129	208	grac	293	anic	385	Lept	483	annot	572	572	comp	708	Caly	argu	819	rept	917	Rjoc	
029	fill	130	erct	130	209	grac	294	anic	386	Lept	484	annot	573	573	comp	709	Caly	argu	820	rept	918	Sacc	
033	Anom	133	erct	133	210	grac	295	anic	387	Lept	485	annot	574	574	comp	710	Caly	argu	821	rept	919	Scap	
034	Ani	134	erct	134	211	grac	296	anic	388	Lept	486	annot	575	575	comp	711	Caly	argu	822	rept	920	aspe	
035	Arch	135	erct	135	212	grac	297	anic	389	Lept	487	annot	576	576	comp	712	Caly	argu	823	rept	922	aspe	
036	Arch	136	erct	136	213	grac	298	anic	390	Lept	488	annot	577	577	comp	713	Caly	argu	824	rept	924	curt	
038	Atr	137	erct	137	214	grac	299	anic	391	Lept	489	annot	578	578	comp	714	Caly	argu	825	rept	924	curt	
040	Aula	138	erct	138	215	grac	300	anic	392	Lept	490	annot	579	579	comp	715	Caly	argu	826	rept	927	grac	
041	Aula	139	erct	139	216	grac	301	anic	393	Lept	491	annot	580	580	comp	716	Caly	argu	827	rept	929	irri	
042	Barb	140	erct	140	217	grac	302	anic	394	Lept	492	annot	581	581	comp	717	Caly	argu	828	rept	930	nemo	
045	Barb	141	erct	141	218	grac	303	anic	395	Lept	493	annot	582	582	comp	718	Caly	argu	829	rept	931	nimo	
045	Barb	142	erct	142	219	grac	304	anic	396	Lept	494	annot	583	583	comp	719	Caly	argu	830	rept	932	orni	
045	Barb	143	erct	143	220	grac	305	anic	397	Lept	495	annot	584	584	comp	720	Caly	argu	831	rept	936	suba	
045	Barb	144	erct	144	221	grac	306	anic	398	Lept	496	annot	585	585	comp	721	Caly	argu	832	rept	937	ulig	
045	Barb	145	erct	145	222	grac	307	anic	399	Lept	497	annot	586	586	comp	722	Caly	argu	833	rept	938	umbu	
045	Barb	146	erct	146	223	grac	308	anic	400	Lept	498	annot	587	587	comp	723	Caly	argu	834	rept	939	undu	
045	Barb	147	erct	147	224	grac	309	anic	401	Lept	499	annot	588	588	comp	724	Caly	argu	835	rept	940	Sole	
045	Barb	148	erct	148	225	grac	310	anic	402	Lept	500	annot	589	589	comp	725	Caly	argu	836	rept	940	Sole	
045	Barb	149	erct	149	226	grac	311	anic	403	Lept	501	annot	590	590	comp	726	Caly	argu	837	rept	942	cord	
045	Barb	150	erct	150	227	grac	312	anic	404	Lept	502	annot	591	591	comp	727	Caly	argu	838	rept	942	cord	
045	Barb	151	erct	151	228	grac	313	anic	405	Lept	503	annot	592	592	comp	728	Caly	argu	839	rept	944	cren	
045	Barb	152	erct	152	229	grac	314	anic	406	Lept	504	annot	593	593	comp	729	Caly	argu	840	rept	944	cren	
045	Barb	153	erct	153	230	grac	315	anic	407	Lept	505	annot	594	594	comp	730	Caly	argu	841	rept	946	spha	
045	Barb	154	erct	154	231	grac	316	anic	408	Lept	506	annot	595	595	comp	731	Caly	argu	842	rept	946	spha	
045	Barb	155	erct	155	232	grac	317	anic	409	Lept	507	annot	596	596	comp	732	Caly	argu	843	rept	947	trif	
045	Barb	156	erct	156	233	grac	318	anic	410	Lept	508	annot	597	597	comp	733	Caly	argu	844	rept	952	Sphe	
045	Barb	157	erct	157	234	grac	319	anic	411	Lept	509	annot	598	598	comp	734	Caly	argu	845	rept	954	Targ	
045	Barb	158	erct	158	235	grac	320	anic	412	Lept	510	annot	599	599	comp	735	Caly	argu	846	rept	956	Trit	
045	Barb	159	erct	159	236	grac	321	anic	413	Lept	511	annot	600	600	comp	736	Caly	argu	847	rept	957	Trit	
045	Barb	160	erct	160	237	grac	322	anic	414	Lept	512	annot	601	601	comp	737	Caly	argu	848	rept	958	exactif	
045	Barb	161	erct	161	238	grac	323	anic	415	Lept	513	annot	602	602	comp	738	Caly	argu	849	rept	960	quin	
045	Barb	162	erct	162	239	grac	324	anic	416	Lept	514	annot	603	603	comp	739	Caly	argu	850	rept			
045	Barb	163	erct	163	240	grac	325	anic	417	Lept	515	annot	604	604	comp	740	Caly	argu	851	rept			
045	Barb	164	erct	164	241	grac	326	anic	418	Lept	516	annot	605	605	comp	741	Caly	argu	852	rept			
045	Barb	165	erct	165	242	grac	327	anic	419	Lept	517	annot	606	606	comp	742	Caly	argu	853	rept			
045	Barb	166	erct	166	243	grac	328	anic	420	Lept	518	annot	607	607	comp	743	Caly	argu	854	rept			
045	Barb	167	erct	167	244	grac	329	anic	421	Lept	519	annot	608	608	comp	744	Caly	argu	855	rept			
045	Barb	168	erct	168	245	grac	330	anic	422	Lept	520	annot	609	609	comp	745	Caly	argu	856	rept			
045	Barb	169	erct	169	246	grac	331	anic	423	Lept	521	annot	610	610	comp	746	Caly	argu	857	rept			
045	Barb	170	erct	170	247	grac	332	anic	424	Lept	522	annot	611	611	comp	747	Caly	argu	858	rept			
045	Barb	171	erct	171	248	grac	333	anic	425	Lept	523	annot	612	612	comp	748	Caly	argu	859	rept			
045	Barb	172	erct	172	249	grac	334	anic	426	Lept	524	annot	613	613	comp	749	Caly	argu	860	rept			
045	Barb	173	erct	173	250	grac	335	anic	427	Lept	525	annot	614	614	comp	750	Caly	argu	861	rept			
045	Barb	174	erct	174	251	grac	336	anic	428	Lept	526	annot	615	615	comp	751	Caly	argu	862	rept			
045	Barb	175	erct	175	252	grac	337	anic	429	Lept	527	annot	616	616	comp	752	Caly	argu	863	rept			
045	Barb	176	erct	176	253																		

ANIMAL RECORD	REGN. LMR	DIVN. PRES.	AREA HELLIF.	SITE B161
SITE NAME Stander	RECORDER B.M. Carleton	WEATHER Overcast and dull with light drizzle at first, but mainly dry Cool, with only a light breeze		LANDFORM 1 2 3 4 ⑤ 6 7 Very typical medium cutting with medium flat above.
M.P. 20 1/2	TIPPING Light & old mixed along bottom 2m. of slope	DATE 24.7.79	TIME 1010 → 1210	
COUNTY Lancs.	N.L.U. Improved pasture			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	20	700	Mainly coarse forb-rich grassy cutting but with a large area of shorter damp calcareous grassland. There is a lot of cold-chamber scrub and brambles, plus rosebay, meadow sweet and bramble. A eutrophic stream runs into the SW. comes of cutting & has associated <u>Phalaris</u> and <u>Impatiens</u> . Very good possibilities for a variety of phyto-phagous insects etc. in the sheltered site. Some covered nesting possibilities but these are common around farms & by river. A fair site but mainly an insect one. Bridge off.	Birds (small)	2	2	2
1	1	15	700		Birds (large)	2	2	1
1	6	50	700		Mamm. (small)	3	3	2
2	2	5	700		Mamm. (large)	2	2	1
3	0	5	700		Other verts.	1	2	2
6	8	1	700		Lepidoptera	3		3
				Other insects	3	3	3	
				Other inverts.	3	3	3	

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Starling	5180	2	Rabbit	2	Orange gall on <u>Sanguisorba</u>	
Swift	3270	3			<u>Cephus nemoralis</u>	
Swallows	3610	2			<u>Cephus hortensis</u>	
Coronin Crow	3681	1			Buff-tailed Bumble-bee	
					<u>Prion/Limax</u> spp.	
					<u>Vespa</u> sp.	
					<u>Lasius</u> sp. & hills	
					Wheat bulb fly	
					Various:	
					Diptera	
					Hemiptera (frog hopper)	

contd. over

contd. over

contd. over

contd. over

contd. over

contd. over

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Chaburn

Map Ref SD770442 Data bank ref

NCC Region North West

County Lancashire

Internal ref B162

STATUS

Part of	Adjacent to	NNR	PNNR	LNR	SSSI	
---------	-------------	-----	------	-----	------	--

County Flora site. State ref - Travis's Flora of S. Lancs (1963) pp. 240 & 260

Local Information site. State source -

Discovery etc. (Describe) - Examined as Cutting on Chaburn Limestone

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	<u>Rare</u>	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Rock cutting, calcicolous grassland; mixed deciduous scrub
Geological) - Exposure of Carboniferous [Dinantian, Viséan] Chaburn Limestone.

RAILWAY REGION LNR DIVISION Preston

AREA Hellifield

Address of Area Civil Engrs Office S. Woolf

Telephone number

Hellifield Stn.

N. Yorks.

Tel. No 072 95 246

Name of railway line Blackburn → Hellifield.

Access at Minor road bridge over at SD770441

Mileage post 23 3/4

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
<u>24th July 1979</u>	<u>Dr. C.M. Sargent, B.M. Corleton & J.O. Mountford.</u>	<u>A good species list with large populations of two long-established rare alisks. Poorer in its semi-natural vegetation than the two other nearby sites [Stander & Dudland] but contributing a diverse plant and animal habitat in the middle of a village.</u> <u>* To be noted and the <u>Rumex acetosella</u> and <u>Erigeron</u> populations monitored. Should be notified to BR on account of these two spp since both occur within the range of broader-scale spraying.</u> <u>Some examination of the line S. to the Station would complete the picture.</u>

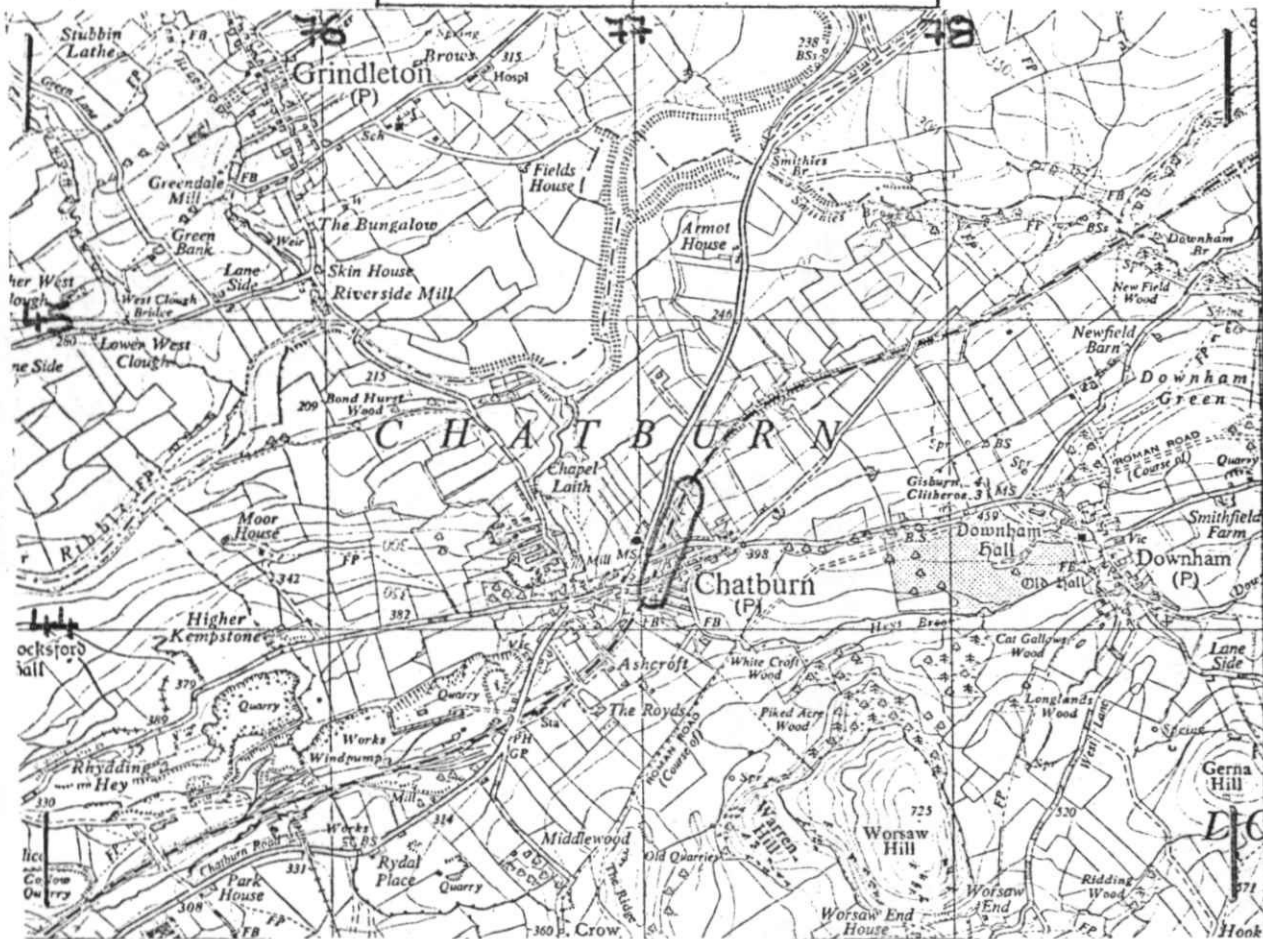
Continue overlea

FILE OPENED BY ITE, Monks Wood

DATE 18th Jan. 1980

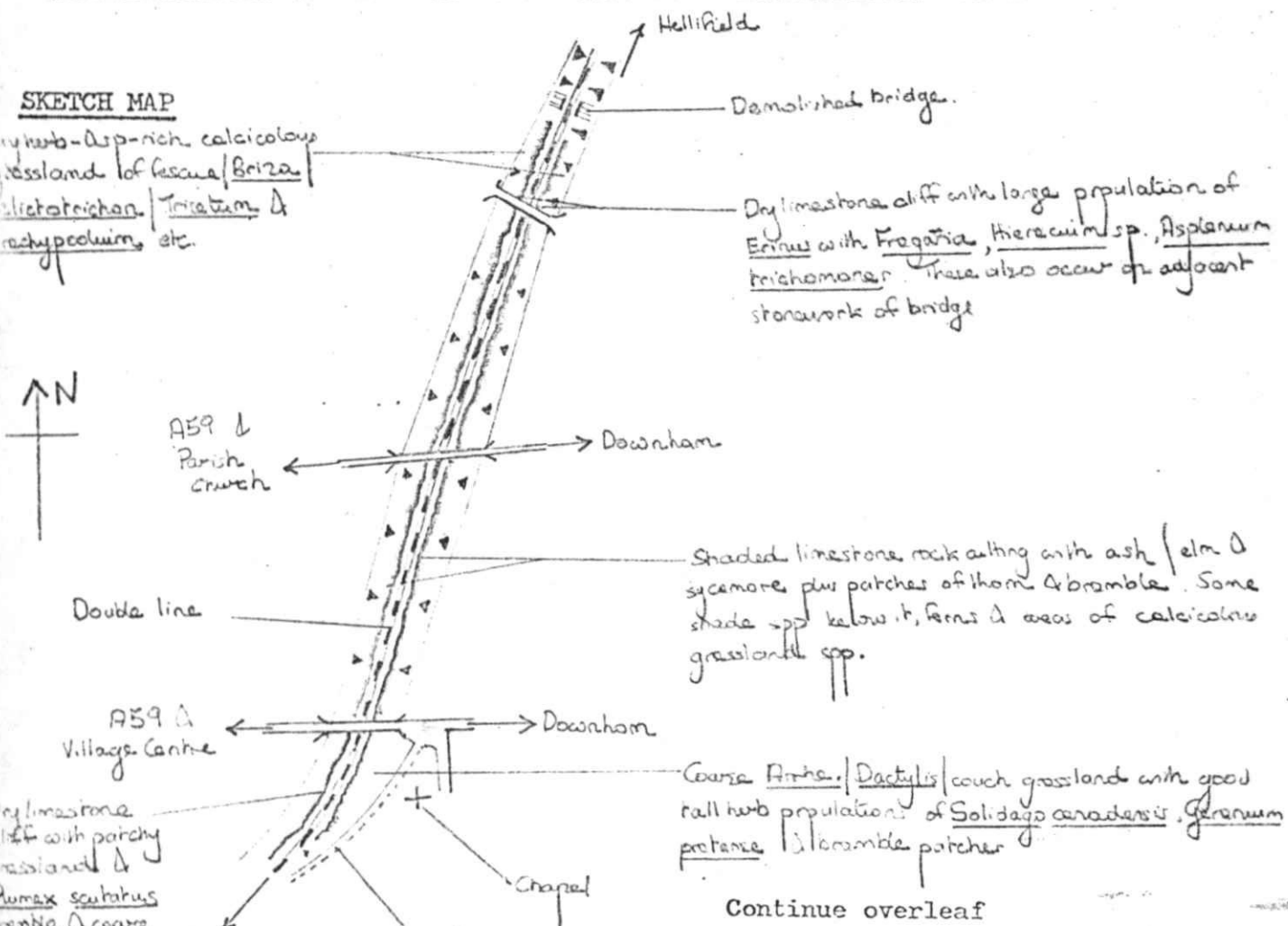
LOCATION STATUS

Accurate	Approximate
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SKETCH MAP

Wet-asp-rich calcicolous
grassland of fescue/Briza
Microstichon / Trisetum &
Dactyloctenium, etc.



Hellfield
Demolished bridge.

Dry limestone cliff with large population of
Erigeron with *Fragaria*, *Hieracium* sp., *Asplenium*
trichomanes. These also occur on adjacent
stonework of bridge

A59 &
Parish
church

Downham

Double line

Shaded limestone rock sitting with ash / elm &
sycamore plus patches of thorn & bramble. Some
shade spp below it, ferns & areas of calcicolous
grassland spp.

A59 &
Village Centre

Downham

Wet limestone
cliff with patchy
grassland &
Dumex scutarius
Verbena & coarse
grass above

Coarse *Arrhenatherum* / *Dactylis* / couch grassland with good
tall herb populations of *Solidago canadensis*, *Geranium*
pratense & bramble patches

Chapel

Continue overleaf

Altitude 320' → 350'Local Geology Carboniferous [Dinantian, Viséan] Chatburn Limest.Neighbouring landuses Improved pasture & housing etc

DIRECTION FROM ACCESS

N	E	W	S	E	W
---	---	---	---	---	---

 or BOTH

Dist from * access point	S.O → 70m.	S.O → 70m.	S.O → 70m.	S.60 → N.250m	N.O → 250m	N.250 → 270m	N.250 → 300m.
Side of track °	E.	W.	W.	E.	W.	both	both
Landform x	Flat	S.Cut.	Flat	S.Cut & Cut	S.Cut & Cut	S.Cut & Brid.	Cuts.
Aspect-degrees	-	130°	-	310°	130°	310°/130°	Various
Width-metres	20m	7m.	5m	6+7m.	6+7m.	Various	→ 9m. each
Disturbance +	-	-	-	-	-	-	-

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

Good populations of Rumex saxatilis and Erinus alpinus (known in this area since 1955 & 1872 respectively). The most Corynephorus chrysophyllum is also known here but is very local in the site - country. Areas of calcicolous grassland and rock cutting. Coastalip, Helictotrichon pubescens & Hypericum hirsutum are uncommon locally.

General vegn characteristics and habitat description indicate side of track

South from the AP by the marginal path is a broad flat of coarse grassland with extensive bramble patches. This is composed of Festuca ovina, Dactylis and Pigopyron and is quite herb-rich with garden goldenrod and Grossum pratense being especially noticeable. [column 1]. The site as such is a limestone rock cutting generally with a gentler cutting above it. South from the AP this cutting is rather dry and open and especially on the W. side has patchy fescue grassland with Origanum etc. and a good population of Rumex saxatilis [column 2]. The flat above is poor with bramble, Hawthorn & coarse grass, plus large stands of rosary [column 3]. The main portion of the cutting has large areas of exposed rock some of it quite dark and algae or lichen-covered. There is little vegetation on the cliff except in crevices etc. where Mycalis fern and Brachypodium grow. There is some coarse colonisation of the narrow bands of sora below often with Tonacetum perthense and Grossum robertianum. The broader ledges, the foot of the cliff & the gentler slope above have been extensively colonised by scrub with ash, elm, Asycanore, Hawthorn & bramble being particularly common. Some calcicola and shade spp. grow underneath this but it is rather overgrown in the main and bramble has cramped it. [column 4] and [column 5]. The field bridge 250m. north of the AP and both dry unshaded cliff-faces immediately north of it have an open saxicolous veg. dominated by forbs with Erinus alpinus and Fragaria vesca being especially common. Hieracium sp. is also frequent and particularly of the bridge. Asplenium spp. are common with fine grasses. [column 6]. Finally on the gentler slope above here and north beyond the demolished bridge, the scrub cover thin but considerably to give a forb- & sp-rich calcicolous grassland of a very mixed type with fescue, Carex flacca, Briza, Brachypodium, Trisetum and Helictotrichon forming the matrix within which such forbs as Corynephorus, Sanguisorba, Hypericum hirsutum, Linum leontodon hybridum, Galium verum, Alchemilla and Lolium are frequent. Close to the flat and the end of the site the species number declines and the cover is coarser [column 7].

PREFERRED MANAGEMENT

Some grazing of grassland & control of spraying in areas where centres occur (Rumex saxatilis & Erinus)

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None.

24.7.79 Jom.

Continue overleaf

SIDE OF TRACK

N	E	W	S	E	W
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DATE 24.7.79 RECORDER CMSargent/JOMountford

GRASSES	ADDITIONAL SPECIES	CODE	NAME
35 Agrostis	Arbidopals Thal.	142	
41 Alopecurus	Erinus folpinus	738	
42 Alopecurus	Rubus idaeus	1729	
85 Anthoxanthum	Rumex scutellatus	1754	
ARRHIS	Salix cinerea	1786	
220 Avena	Hieracium sp.	1828	
239 Brachypodium	Saxifraga x lib	1841	
262 Briza media	Vicia sativa nigra	2186	
263 Briza media	Solidago canad.	2251	
268 Bromus			
269 Bromus			
113 Calamagrostis			
293 Cynodon			
597 Cynodon			
DACTYLIS			
232 Deschampsia			
638 Festuca			
813 Festuca			
816 Festuca			
821 Festuca			
823 Festuca			
824 Festuca			
924 Festuca			
961 Festuca			
1162 Festuca			
1183 Festuca			
1263 Festuca			
1296 Festuca			
1307 Festuca			
1344 Festuca			
1454 Festuca			
1461 Festuca			
2247 Festuca			
1465 Festuca			
1495 Festuca			
1499 Festuca			
1504 Festuca			
1506 Festuca			
1515 Festuca			
2226 Festuca			
2228 Festuca			
WOODY - CLIMBERS			
3 Acer			
2241 Acer			
77 Alnus			
330 Betula			
240 Bryonia			
239 Buxus			
248 Carya			
432 Carya			
528 Clematis			
557 Corylus			
557 Corylus			
666 Crataegus			
570 Eucalyptus			
810 Equisetum			

SITE NAME Chatburn

CDB ref

Internal ref 8162

BRYOPHYTES

DATE 24th July 1979

RECORDER C.M. Sargent

Additional Species
NAME
CODE

001	Acro cord	0874	viri	185	rufe	269	osmu	364	myur	460	Pleu acum	546	pauc	681	Adel deci	790	Leio bade	883	laev
002	Acro cord	0875	arpe	186	schr	272	rufa	365	stri	461	subu	547	pusi	682	Anas orca	791	bant	884	pinn
003	Acro cord	0876	erpe	187	subu	273	taxi	366	piri	462	Pleu squa	548	recu	683	Anas doni	794	muel	885	plat
004	Acro cord	0877	lana	188	subu	274	viri	367	ripa	463	Pleu schr	549	trif	684	Anth julia	796	turb	886	thuj
005	Acro cord	0878	bico	189	viri	275	anti	368	trinit	464	Pleu acum	551	trif	685	Anth huan	801	cavi	887	quad
006	Acro cord	0879	bico	190	viri	276	anti	369	trinit	465	Pleu acum	552	trif	686	Anth huan	802	lami	888	Prei
007	Acro cord	0880	bico	191	viri	277	anti	370	trinit	466	Pleu acum	553	trif	687	Anth huan	803	lami	889	Pill
008	Acro cord	0881	bico	192	viri	278	anti	371	trinit	467	Pleu acum	554	trif	688	Anth huan	804	lami	890	Radu
009	Acro cord	0882	bico	193	viri	279	anti	372	trinit	468	Pleu acum	555	trif	689	Anth huan	805	lami	891	comp
010	Acro cord	0883	bico	194	viri	280	anti	373	trinit	469	Pleu acum	556	trif	690	Anth huan	806	lami	892	ulic
011	Acro cord	0884	bico	195	viri	281	anti	374	trinit	470	Pleu acum	557	trif	691	Anth huan	807	lami	893	comp
012	Acro cord	0885	bico	196	viri	282	anti	375	trinit	471	Pleu acum	558	trif	692	Anth huan	808	lami	894	lind
013	Acro cord	0886	bico	197	viri	283	anti	376	trinit	472	Pleu acum	559	trif	693	Anth huan	809	lami	895	Rebo
014	Acro cord	0887	bico	198	viri	284	anti	377	trinit	473	Pleu acum	560	trif	694	Anth huan	810	lami	896	Rebo
015	Acro cord	0888	bico	199	viri	285	anti	378	trinit	474	Pleu acum	561	trif	695	Anth huan	811	lami	897	Rloc
016	Acro cord	0889	bico	200	viri	286	anti	379	trinit	475	Pleu acum	562	trif	696	Anth huan	812	lami	898	lami
017	Acro cord	0890	bico	201	viri	287	anti	380	trinit	476	Pleu acum	563	trif	697	Anth huan	813	lami	899	mult
018	Acro cord	0891	bico	202	viri	288	anti	381	trinit	477	Pleu acum	564	trif	698	Anth huan	814	lami	900	palm
019	Acro cord	0892	bico	203	viri	289	anti	382	trinit	478	Pleu acum	565	trif	699	Anth huan	815	lami	901	ping
020	Acro cord	0893	bico	204	viri	290	anti	383	trinit	479	Pleu acum	566	trif	700	Anth huan	816	lami	902	sinu
021	Acro cord	0894	bico	205	viri	291	anti	384	trinit	480	Pleu acum	567	trif	701	Anth huan	817	lami	903	cup
022	Acro cord	0895	bico	206	viri	292	anti	385	trinit	481	Pleu acum	568	trif	702	Anth huan	818	lami	904	frag
023	Acro cord	0896	bico	207	viri	293	anti	386	trinit	482	Pleu acum	569	trif	703	Anth huan	819	lami	905	comp
024	Acro cord	0897	bico	208	viri	294	anti	387	trinit	483	Pleu acum	570	trif	704	Anth huan	820	lami	906	comp
025	Acro cord	0898	bico	209	viri	295	anti	388	trinit	484	Pleu acum	571	trif	705	Anth huan	821	lami	907	comp
026	Acro cord	0899	bico	210	viri	296	anti	389	trinit	485	Pleu acum	572	trif	706	Anth huan	822	lami	908	comp
027	Acro cord	0900	bico	211	viri	297	anti	390	trinit	486	Pleu acum	573	trif	707	Anth huan	823	lami	909	comp
028	Acro cord	0901	bico	212	viri	298	anti	391	trinit	487	Pleu acum	574	trif	708	Anth huan	824	lami	910	comp
029	Acro cord	0902	bico	213	viri	299	anti	392	trinit	488	Pleu acum	575	trif	709	Anth huan	825	lami	911	comp
030	Acro cord	0903	bico	214	viri	300	anti	393	trinit	489	Pleu acum	576	trif	710	Anth huan	826	lami	912	comp
031	Acro cord	0904	bico	215	viri	301	anti	394	trinit	490	Pleu acum	577	trif	711	Anth huan	827	lami	913	comp
032	Acro cord	0905	bico	216	viri	302	anti	395	trinit	491	Pleu acum	578	trif	712	Anth huan	828	lami	914	comp
033	Acro cord	0906	bico	217	viri	303	anti	396	trinit	492	Pleu acum	579	trif	713	Anth huan	829	lami	915	comp
034	Acro cord	0907	bico	218	viri	304	anti	397	trinit	493	Pleu acum	580	trif	714	Anth huan	830	lami	916	comp
035	Acro cord	0908	bico	219	viri	305	anti	398	trinit	494	Pleu acum	581	trif	715	Anth huan	831	lami	917	comp
036	Acro cord	0909	bico	220	viri	306	anti	399	trinit	495	Pleu acum	582	trif	716	Anth huan	832	lami	918	comp
037	Acro cord	0910	bico	221	viri	307	anti	400	trinit	496	Pleu acum	583	trif	717	Anth huan	833	lami	919	comp
038	Acro cord	0911	bico	222	viri	308	anti	401	trinit	497	Pleu acum	584	trif	718	Anth huan	834	lami	920	comp
039	Acro cord	0912	bico	223	viri	309	anti	402	trinit	498	Pleu acum	585	trif	719	Anth huan	835	lami	921	comp
040	Acro cord	0913	bico	224	viri	310	anti	403	trinit	499	Pleu acum	586	trif	720	Anth huan	836	lami	922	comp
041	Acro cord	0914	bico	225	viri	311	anti	404	trinit	500	Pleu acum	587	trif	721	Anth huan	837	lami	923	comp
042	Acro cord	0915	bico	226	viri	312	anti	405	trinit	501	Pleu acum	588	trif	722	Anth huan	838	lami	924	comp
043	Acro cord	0916	bico	227	viri	313	anti	406	trinit	502	Pleu acum	589	trif	723	Anth huan	839	lami	925	comp
044	Acro cord	0917	bico	228	viri	314	anti	407	trinit	503	Pleu acum	590	trif	724	Anth huan	840	lami	926	comp
045	Acro cord	0918	bico	229	viri	315	anti	408	trinit	504	Pleu acum	591	trif	725	Anth huan	841	lami	927	comp
046	Acro cord	0919	bico	230	viri	316	anti	409	trinit	505	Pleu acum	592	trif	726	Anth huan	842	lami	928	comp
047	Acro cord	0920	bico	231	viri	317	anti	410	trinit	506	Pleu acum	593	trif	727	Anth huan	843	lami	929	comp
048	Acro cord	0921	bico	232	viri	318	anti	411	trinit	507	Pleu acum	594	trif	728	Anth huan	844	lami	930	comp
049	Acro cord	0922	bico	233	viri	319	anti	412	trinit	508	Pleu acum	595	trif	729	Anth huan	845	lami	931	comp
050	Acro cord	0923	bico	234	viri	320	anti	413	trinit	509	Pleu acum	596	trif	730	Anth huan	846	lami	932	comp
051	Acro cord	0924	bico	235	viri	321	anti	414	trinit	510	Pleu acum	597	trif	731	Anth huan	847	lami	933	comp
052	Acro cord	0925	bico	236	viri	322	anti	415	trinit	511	Pleu acum	598	trif	732	Anth huan	848	lami	934	comp
053	Acro cord	0926	bico	237	viri	323	anti	416	trinit	512	Pleu acum	599	trif	733	Anth huan	849	lami	935	comp
054	Acro cord	0927	bico	238	viri	324	anti	417	trinit	513	Pleu acum	600	trif	734	Anth huan	850	lami	936	comp
055	Acro cord	0928	bico	239	viri	325	anti	418	trinit	514	Pleu acum	601	trif	735	Anth huan	851	lami	937	comp
056	Acro cord	0929	bico	240	viri	326	anti	419	trinit	515	Pleu acum	602	trif	736	Anth huan	852	lami	938	comp
057	Acro cord	0930	bico	241	viri	327	anti	420	trinit	516	Pleu acum	603	trif	737	Anth huan	853	lami	939	comp
058	Acro cord	0931	bico	242	viri	328	anti	421	trinit	517	Pleu acum	604	trif	738	Anth huan	854	lami	940	comp
059	Acro cord	0932	bico	243	viri	329	anti	422	trinit	518	Pleu acum	605	trif	739	Anth huan	855	lami	941	comp
060	Acro cord	0933	bico	244	viri	330	anti	423	trinit	519	Pleu acum	606	trif	740	Anth huan	856	lami	942	comp
061	Acro cord	0934	bico	245	viri	331	anti	424	trinit	520	Pleu acum	607	trif	741	Anth huan	857	lami	943	comp
062	Acro cord	0935	bico	246	viri	332	anti	425	trinit	521	Pleu acum	608	trif	742	Anth huan	858	lami	944	comp
063	Acro cord	0936	bico	247	viri	333	anti	426	trinit	522	Pleu acum	609	trif	743	Anth huan	859	lami	945	comp
064	Acro cord	0937	bico	248	viri	334	anti	427	trinit	523	Pleu acum	610	trif	744	Anth huan	860	lami	946	comp
065	Acro cord	0938	bico	249	viri	335	anti	428	trinit	524	Pleu acum	611	trif	745	Anth huan	861	lami	947	comp
066	Acro cord	0939	bico	250	viri	336	anti	429	trinit	525	Pleu acum	612	trif	746	Anth huan	862	lami	948	comp
067	Acro cord	0940	bico	251	viri	337	anti	430	trinit	526	Pleu acum	613	trif	747	Anth huan	863	lami	949	comp
068	Acro cord	0941	bico	252	viri	338	anti	431	trinit	527	Pleu acum	614	trif	748	Anth huan	864	lami	950	comp
069	Acro cord	0942	bico	253	viri	339	anti	432	trinit	528	Pleu acum	615	trif	749	Anth huan	865	lami	951	comp
070	Acro cord	0943	bico	254	viri	340	anti	433	trinit	529	Pleu acum	616	trif	750	Anth huan	866	lami	952	comp
071	Acro cord	0944	bico	255	viri	341	anti	434	trinit	530	Pleu acum	617	trif	751	Anth huan	867	lami	953	comp
072	Acro cord	0945	bico	256	viri	342	anti	435	trinit	531	Pleu acum	618	trif	752	Anth huan	868	lami	954	comp
073	Acro cord	0946	bico	257	viri	343	anti	436	trinit	532	Pleu acum	619	trif	753	Anth huan	869	lami	955	comp
074	Acro cord	0947	bico	258	viri	344	anti	437	trinit	533	Pleu acum	620	trif	754	Anth huan	870	lami	956	comp
075	Acro cord	0948	bico	259	viri	345	anti	438	trinit	534	Pleu acum	621	trif	755	Anth huan	871	lami	957	comp
076	Acro cord	0949	bico	260	viri	346	anti	439	trinit	535	Pleu acum	622	trif	756	Anth huan	872	lami	958	comp
077	Acro cord	0950	bico	261	viri	347	anti	440	trinit	536									

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Dusland

Map Ref SD80.47. Data bank ref

NCC Region North West

County Lancashire

Internal ref B163

STATUS

Part of	Adjacent to	NMR	PNR	INR	SSSI	
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County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - Examined as pair of cuttings on Chatterburn Limestone

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	<u>Rare</u>	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Calcareous grassland & rock. Ditches, mixed scrub & crabs.
) Damp mossy slopes & woodland.
Geological)

RAILWAY REGION LMA DIVISION Preston

AREA Hellifield

Address of Area Civil Engrs Office S. Woolf
Telephone number Hellifield Str.
N. Yorks.

Tel. No. 072 95 246

Name of railway line Blackburn → Hellifield.

Access at R59 bridge over at SD802472

Mileage post 26 1/4 → 27 1/4

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
<u>24th July 1979</u>	<u>Dr. C.M. Sargent, B.M. Carlston & J.O. Mountford.</u>	<u>An excellent site, one of the best examined in 1979 with large areas of semi-natural calcareous vegetation, a very good species list and a number of local spp. including a rare albat in a completely natural habitat. The cuttings through the limestone on this line are all good but this one is outstanding and large enough to have considerable conservation value in an area of improved pasture and very limited exposure of limestone.</u> <u>* Recommend consideration of scheduling and strongly advise monitoring of site and notification to British Rail, so that a sympathetic management procedure might be adopted. The further surveying of other cuttings through the limestone in this region would appear productive.</u>

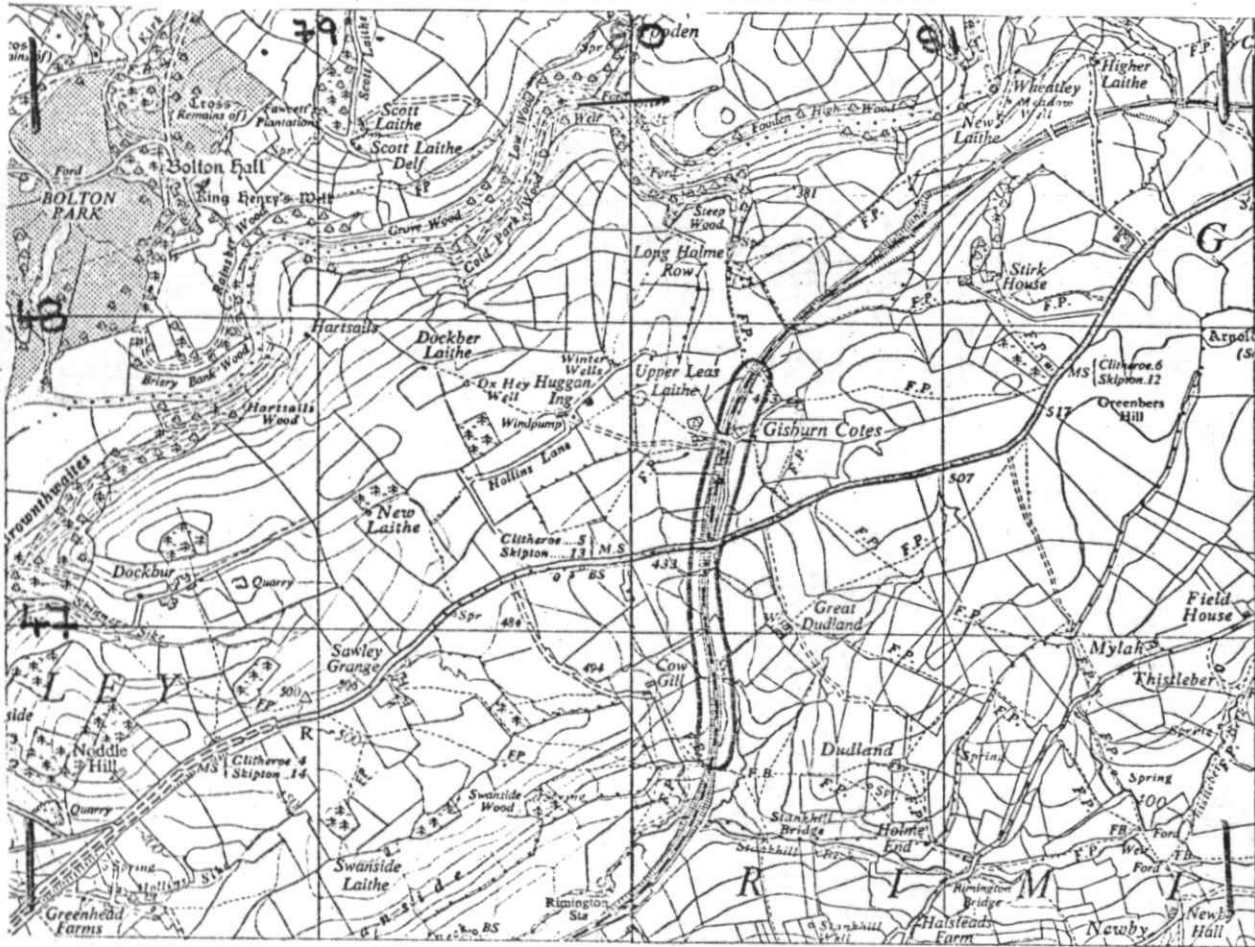
Continue overlea

FILE OPENED BY ITE Marks Wood

DATE 21st Jan 1980

LOCATION STATUS

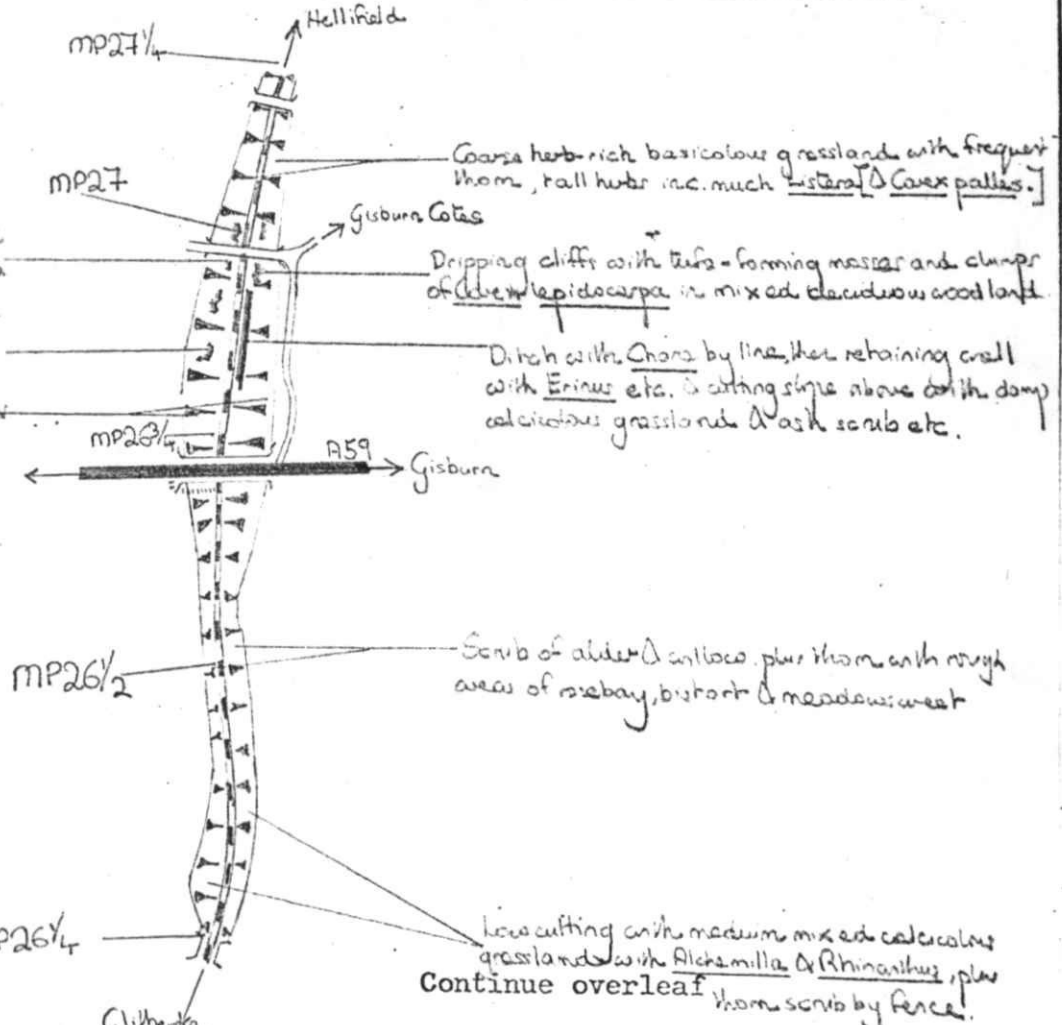
Accurate	Approximate
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SKETCH MAP

Scale 5" = 1 mile

Ash/oak woodland with thorn
 & brambles over ferns & shade spp
 limestone rock exposures with
 various, *Polygala* etc.
 herb-sp-rich low mixed calcareous
 with much *Gymnadenia* etc.



Coarse herb-rich basicolous grasslands with frequent
 thorn, tall herb inc. much *Listeria* & *Carex pallens*.

Dripping cliffs with turf - forming masses and clumps
 of *Cladonia lepidocarpa* in mixed deciduous woodland.

Ditch with *Chama* by line, then retaining wall
 with *Erinus* etc. & cutting slope above with damp
 calcareous grasslands & ash scrub etc.

Scrub of alder & willow, plus thorn with rough
 areas of sedge, bistort & meadowsweet

Low cutting with medium mixed calcareous
 grasslands with *Alchemilla* & *Rhinanthus*, plus
 Continue overleaf thorn scrub by fence.



SITE NAME Dudland

CDB ref

Internal ref B163 (Section 3)

Altitude 375 → 453

Local Geology Carboniferous: [Dinantian; Viséan] Chesham Limestone Group - inc. Limestone itself, locally overlain with boulder clay.

Neighbouring landuses Improved pasture

DIRECTION FROM ACCESS

N E W S E W or BOTH

Dist from * access point	<u>S.75 → N.100m</u>	<u>N.100 → 200m</u>	<u>N.100 → 200m</u>	<u>N.200 → 400m</u>	<u>N.400 → 600m</u>	<u>S.75 → 400m</u>	<u>S.75 → 450m</u>	<u>S.500 → 650m</u>
Side of track °	<u>both</u>	<u>W</u>	<u>E</u>	<u>both</u>	<u>both</u>	<u>W</u>	<u>E</u>	<u>both</u>
Landform x	<u>Cuts.</u>	<u>S. Cut.</u>	<u>Ditch, Wall & C.</u>	<u>S. Cuts.</u>	<u>Cuts.</u>	<u>Emb.</u>	<u>Emb.</u>	<u>Cuts.</u>
Aspect-degrees	<u>270°/90°</u>	<u>90°</u>	<u>270°</u>	<u>270°/90°</u>	<u>290°/110°</u>	<u>260°</u>	<u>80°</u>	<u>260°/270°</u>
Width-metres	<u>2 x 25m → 30m</u>	<u>1+4+20m</u>	<u>2 x c. 30m</u>	<u>2 x c. 15m</u>	<u>c. 5m</u>	<u>c. 8m</u>	<u>2 x 15m</u>	<u>—</u>
Disturbance +	<u>Grass.</u>	<u>—</u>	<u>Clear.</u>	<u>—</u>	<u>—</u>	<u>M. Ball</u>	<u>M. Ball</u>	<u>—</u>

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Good naturalist population of Erinus. Forb- & spon-rich limestone turf with Helictotrichon pubescens, Ophryas pifera, Gymnaderia, Primula vertic among the local sp. in this area. Scrub with Hypericum hirsutum, Valeriana dioica, Ribes nigrum, Carex gmeliniana with Carex pallascens. Rocks, damp & dry with Carex leptocarpa, Seligeria pusilla, Taxiphyllum & Campylopus spha.

General veg characteristics and habitat description indicate side of track

The cutting immediately north of the AP has the richest turf with broad-bents covered in forb-rich, and species-rich limestone grassland of Briza, Trisetum, Carex flacca, Brachypodium, Festuca and Helictotrichon over a carpet of Ctenidium. Abundant herbs include Euphrasia, Gymnaderia, Doctylorhiza, Leucanthemum, Lotus, Campanula rotundifolia, Linum, lurula, cowslip & Ophryas pifera. The area S. of the AP is similar but coarser and poorer [column 1]. This becomes rocky on the W side further north and the Hawthorn which had been only continuous by the fence and sparse elsewhere becomes much commoner. The intervening grassland is similar to col. 1 but coarser and the rock exposures Asura are well colonised by Erinus, Polygala and Fragaria [column 2]. By the line opposite is a narrow ditch filled with Carex & occasional rush. Above it is a stone retaining wall with Erinus colonising well & accompanied by fine grasses. Then there is a gentle grassy slope, damp & cleared in the past with Brachypodium, Carex pulicaris, Succisa, Cirsium palustre, clown & buttercup etc. This gives way above to a mixed deciduous scrub of ash, alder etc. over Ajuga, Valeriana dioica & Ribes among others [column 3]. Northward the rock exposures become more extensive, the scrub taller with some oak woodland and more extensive than a bramble patches. The rocks support a good bryophyte flora, some of it forming tufts and the damp areas have Carex leptocarpa and Carex sp. [column 4]. The lower part of the cutting to MP 2 3/4 has no rock exposures, less scrub & mainly of Hawthorn and in the north a coarse Arrhenatherum, Holcus, Festuca & Deschampsia grassland with much tall herb - rosette, Listera, Gemma rivale etc. & a patch of Carex pallascens [column 5]. Meadow-sward is also common here with bramble. The low emb. S. of the AP is open on the West with coarse grasses, bramble, rosette, meadow-sward & bistort [column 6]. The east side is mainly scrubbed with alder, willow, ash & Hawthorn over bramble & coarse herbs [column 7]. The second cutting with limestone exposed is much lower & poorer and is well to the S. of the AP. Hawthorn is gumbel along the fence edge & common below with Campanula latifolia present. On the lower slopes is a forb-rich mixed calcicolous grassland similar to col. 1 but with few or no Asura & having much Rhinanthus, Alchemilla and Hypericum hirsutum [column 8]. The bridge under is the Sx boundary.

PREFERRED MANAGEMENT

Grazing of the good grassland & some controlled grazing of the coarser areas. Restrict spraying as much as possible & keep scrub at bay.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

Some cuttings & timber etc. on slope above retaining wall. Also spray affects on area by track. Some tipping on emb. & rabbit grazing near MP 2 3/4

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Wye Dale

Map Ref SK10.72 Data bank ref
etc.

NCC Region West Midlands

County Derbyshire

Internal ref R203/B165

STATUS

Part of	<u>Adjacent to</u>	NNR	PNNR	<u>INR</u>	<u>SSSI</u>	BAC files.
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County Flora site. State ref - Clapham, R.R. (1969) p. 126, 127 etc.

Local Information site. State source -

Discovery etc. (Describe) - Rosin Survey Site.

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	<u>Rare</u>	Very rare	
<u>Animals</u>	Insects	Reptiles	Birds	Mammals	

Habitat

) describe

Geological)

Limestone rock outcrops, damp dry, shaded and open. Limestone grassland & scrub; old brick platform. Tall herb veg. & much deciduous woodland.
- Lower Carboniferous [Dinantian: Viséan]; Seminula & earlier zones: Wye Dale Dolomites, W.D. Limestone & Chas Ten Rock.

RAILWAY REGION

LMR

DIVISION

Manchester

AREA -

Address of Area Civil Engrs Office

T.J. Green (D.C.E.)

Telephone number

Rail House
Stone St.

MANCHESTER

Tel. No. 061-228.2141 extn 2532

Name of railway line

Buxton -> Peak Dale (via Great Rocks Dale)

Access at Minor lane bridge over at SK094724

Mileage post 162 1/4 -> 0 1/4

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
26th July 1979	Dr. C.M. Sargent, B.M. Corleton & J.O. Mountford.	In terms of rare species of best areas of BR covered in the 466 survey since 1976. A very good sample of the Carboniferous limestone flora, with a wide variety of habitats and semi-natural vegetation types. The site lies adjacent to part of the Topley Pike & Deepdale SSSI as well as D.N.T. reserve at SK113705 & much of the good vegetation here on B.R. is no doubt duplicated elsewhere. However the railway land is still a valuable protected strip of Dale's flora as good as many SSSI. *Suggest scheduling or extending boundary of Topley Pike SSSI or that of DNT reserve. Some conservation agreement with BR and Deep Dale Quarry who own part of the site is necessary. Further Dale's Surveys are necessary.
31st July 1979	B.M. Corleton, J.O. Mountford & D. de B. Walchner	

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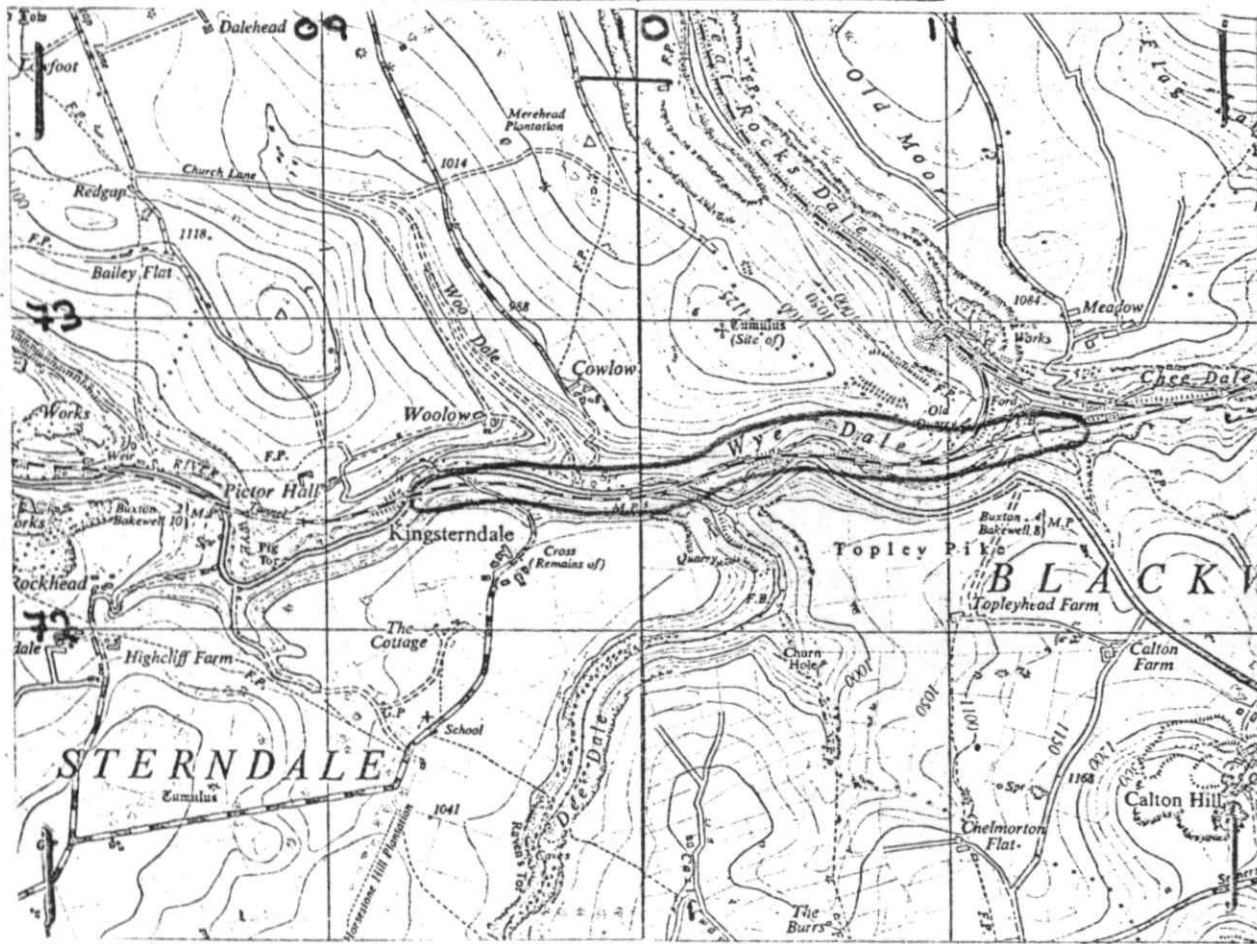
ITE Monks Wood

DATE 21st Jan. 1979

Continue overleaf

LOCATION STATUS

Accurate	Approximate
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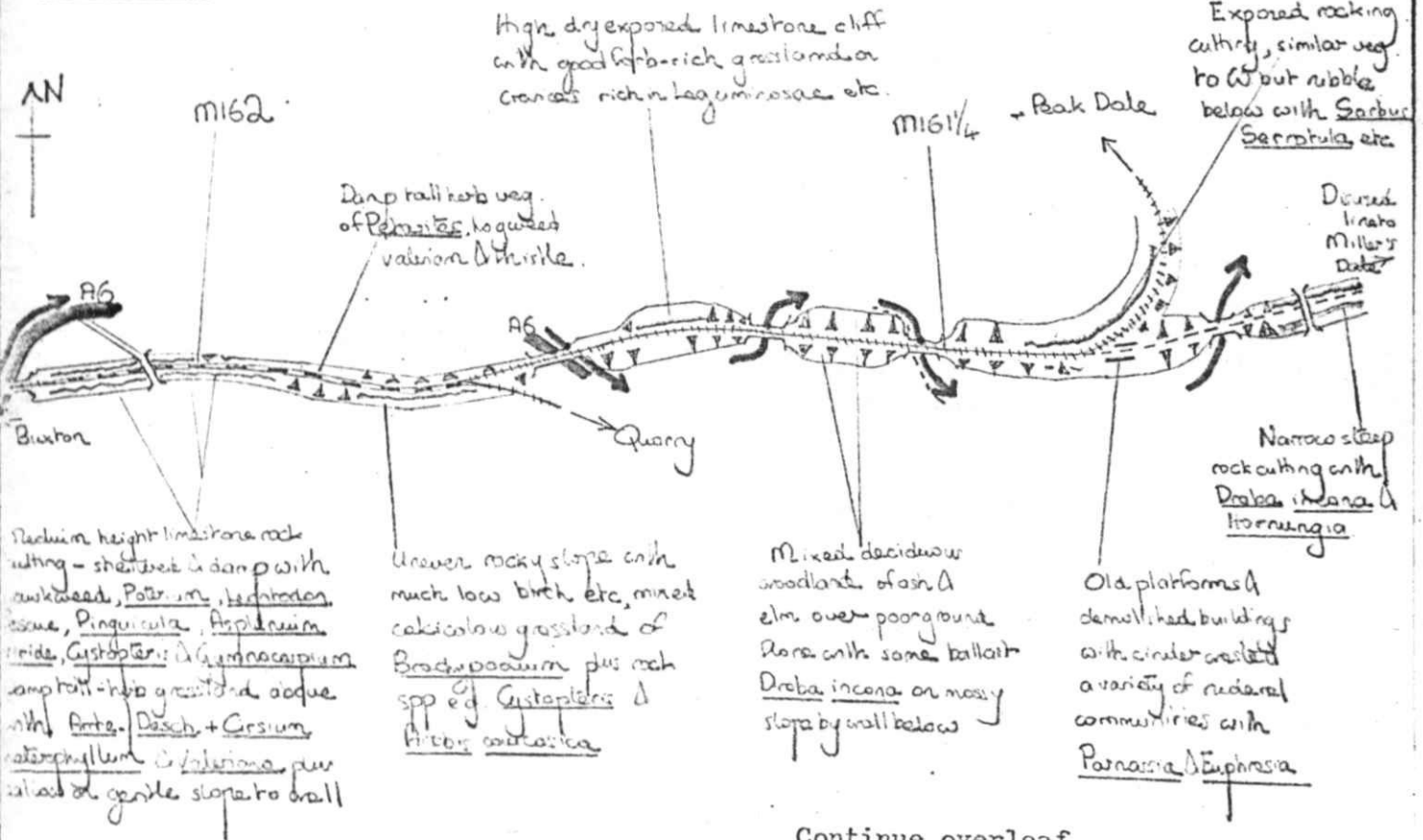


SKETCH MAP

→ R. Wye

Scale 5" = 1 mile

N.B. The veg types often occur at several other points along the line other than that indicated.



Continue overleaf

Altitude 750' → 910'

Local Geology As in Section 1 — some allium near river.

Neighbouring landuses

Upland Rough grasslands, woodlands, rocks, road & river

DIRECTION FROM ACCESS

N E W S E W or **BOTH**

Dist from * access point	<u>W.150 → E.150</u>	<u>E.150 → 1500m</u>	<u>E.150 → 1750m</u>	<u>E.750 → 2000m</u>	<u>600(E) → 1700m.</u>	<u>E.1500 → 1750m.</u>	<u>E.1500 → 2000m.</u>	<u>E.1500 → 2000m.</u>
Side of track °	<u>both</u>	<u>S. mainly</u>	<u>N. mainly</u>	<u>N. mainly</u>	<u>both</u>	<u>NW.</u>	<u>S.</u>	<u>S.</u>
Landform x	<u>S. cut & cut</u>	<u>Cut. mainly</u>	<u>Emb.</u>	<u>Cut.</u>	<u>Emb.</u>	<u>Flat</u>	<u>Old line</u>	<u>S. Cut</u>
Aspect-degrees	<u>20° 200°</u>	<u>20° ..</u>	<u>c. 20°</u>	<u>c. 200°</u>	<u>Various</u>	<u>—</u>	<u>—</u>	<u>Various</u>
Width-metres	<u>2 x 10m.</u>	<u>→ 25m</u>	<u>→ 25m</u>	<u>→ 35m</u>	<u>→ 35m</u>	<u>→ 10m.</u>	<u>→ 15m</u>	<u>→ 25m</u>
Disturbance +	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>M. Ball.</u>	<u>Some</u>	<u>S. Ball</u>	<u>—</u>

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Varied Arich limestone dale vegetation with *Asplenium viride*, *Draba incana*, *Galium s. sterner*, *Geranium sanguineum*, *Hornungia*, *Gymnocarpium robertsonianum* & *Arabis caucasica* among the rarities plus: *Cystopteris*, *Parnassia*, *Pinguicula*, *Sedum arisaema*, *Serratula*, *Mycalis*, *Cirsium heterophyllum*, *Pteris hirsutoides*, *Euphrasia brevifolia* & *Gymnadenia* etc. as other local spp.

General vegn characteristics and habitat description indicate side of track
 Long stretch of line from Pictor to Chee Dale with cuttings when the line is set into the edge of a hill or when it goes through a spur and embankments when it crosses the R. Wya. The used line curves away toward Peak Dale and the now disused line to Millers Dale was surveyed for a short distance since this is still B.R. property. The Sn. line at the AP is actually a quarry siding running parallel to the BR one, it discharges at another group of sidings to serve the works at the foot of Deep Dale. Many of the communities were repeated at several distant points along the survey and there is also marked variation within the eight main categories selected above. The following description tries to take account of this and indicates the best example of each type or notable spp..
 Access was up a minor unsurfaced lane from the AG. The cutting that it crossed had a considerable area of woodland adjacent and was both rather damp and sheltered, particularly the Sn. side. The sheer rock faces of limestone are colonised in crevices etc by *Festuca ovina*, *hawkweeds*, *Polygonum*, *Leontodon*, *hippides* and various ferns especially *Dryopteris* but also *Asplenium* spp. notably *A. viride*, and good populations of *Gymnocarpium*, *Cystopteris* and *Polytrichum aculeatum*. The more shaded parts have *Mycalis* and the damp areas *Pinguicula*. The flat or slope above generally has a coarse mixed calcicolous grassland with frequent low sallows and birch, but on the S. side, a damper kind occurs with *Pteris*, *Dactylis*, *Dasch.* plus *Cirsium heterophyllum* and *Valeriana*, as well as *Anagallis* etc. and a lot of moss [column 1]. The further cutting to the east is generally much higher and has rocky outcrops among the grassy slope. Though much less sheltered than the cutting at the AP (esp. that near Pictor) there is a great deal more scrub colonisation by birch and sallows, though on appearance of open grassy scrub. The ground cover is a rather coarse herb-rich calcicolous grassland of fescues, *Brachypodium* & *Helictotrichon* spp.. The rocky areas have a lot of *Arabis caucasica*. This type is mainly on the S. side of the line east to the quarry trench but it occurs also at scattered points up to the bridge over the abandoned line. A similar kind occurs on the emb. below the quarry junction. [column 2]

PREFERRED MANAGEMENT

Some grazing may be necessary and occasional scrub removal. Scheduling could help and a light control of spraying.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None except ballasting.

form 26.7.79

The embankment slope down toward the A6 from near MP162 has a coarse tall-herb community of Potamogeton, Cirsium, Haltrophylum, Hieracium, meadowswart, Valeriana and Angelica as well as Arrhenatherum. This kind also occurs with Campanula latifolia on the wider slopes E. of the old station by the R. Wye and occasionally elsewhere on more open embankments. [column 3]. These three types are the major forms present in R203 which is the 100m. east of MP162. Elsewhere the sheer limestone cliffs are higher and generally much drier and more exposed, occurring mainly on the N. side of the line notably east of the quarry junction and by the curve round to Great Rocks Dale from the old Miller's Dale Junction. Though occasionally scrubby and similar to the type described in col. 2, the area has a much more typical short very forb-Asp-rich calcicolous turf on the gentler slopes above and to the sides as well as on the cliff ledges themselves. Festuca | Briera | Carex flocca | Tritium | Helictotrichon dominate with large populations of leguminosae, especially Anthylla, plus Centaurea, Polygonum, Helianthemum, Scabiosa etc. Though probably the richest area for spp. of the site, it is not notable for its rarities, only Galium s. sterner occurring and this less common than on the damper or more scrubby cliffs near the A.P. [column 4]. The bulk of the embankments where the line crosses the R. Wye are covered in tall mixed deciduous woodland of elm & ash, with some sycamore. The upper slopes are often ballast strown and the middle slopes covered in a poor ground flora of ivy and ferns, mainly Dryopteris and Phyllitis. The woodland is the commonest vegetation type in the eastern area, especially from the A6 bridge east to beyond MP161 1/4, and then locally by the R. Wye bridge of the old line. Where the line crosses the Wye at SK106725 the lower slopes down to the stone wall adjacent to the riverside path are rather open and covered in a moor community dominated by Ctenidium with a sparse vascular plant cover of Valeriana, Angelica etc. There is a very good population of tall luxuriant plants of Draba incana, growing among the moor where it is somewhat stoney and also on the retaining boundary wall below [column 5]. The junction area by the old station has a number of less extensive communities. The stabilized and compacted boulders along the bottom of the northern cliff have an interesting coarse calcicolous grassland & open scrub with Serratula, Geranium sanguineum & Sorbus aria s.s. all frequent among the Prunella | Brach. | Saxosa | Helict. scard. Gymnadenia occurs on the low rather eroded cutting opposite the road toward MP161 1/4 [column 6]. The old station lies just W. of the last bridge over the Wye and has two surviving platforms plus some partially demolished buildings. There is a variety of rough grassland and ruderal communities with a large lot of weed & calcicole spp.. The sinder on top of the platforms has a low forb rich turf with Linum, Euphrasia, Leontodon, Thieridium, clovers and a few patches of Farnassia. The old line eastward is almost bare of vegetation despite its having had the rails removed. The limestone ballast is occasionally colonized by Euphrasia larchica ssp. ornalis and Arenaria. The walls of the bridges have good populations of Saxifraga tridactylites & Sagina anachala ssp. erecta [column 7]. Finally the narrow limestone rock cutting of the old line beyond the bridge over the Wye and by the DNT reserve has a similar flora to that described in column 4 but it is very much more sheltered, has rather frequent low bushes and has been partly stoned up by stone walls. There is however a small population of Draba incana and a few plants of Hornungia patraea as well as Sorbus aria on the cliff-tops. [column 8].

form. 26.7.79

SIDE OF TRACK	N	E	W	S	E	W
---------------	---	---	---	---	---	---

DATE 26.7.79 RECORDER Cmsargent/JOMantford

Additional Species CODE	NAME
142	<i>Arbidopsis thalictroides</i>
145	<i>Arabis dracunculifolia</i>
146	<i>Arabis hirsuta</i>
162	<i>Arenaria serpyllifolia</i>
195	<i>Asplenium viride</i>
316	<i>Campanula latifolia</i>
576	<i>Cymbis paludosa</i>
651	<i>Draba incana</i>
785	<i>Euphrasia arct. bor.</i>
798	<i>Euphrasia nemorosa</i>
868	<i>Galeopsis atrorhiza</i>
883	<i>Galinia s. sterni</i>
920	<i>Geranium sanguin.</i>
994	<i>Hemungia palustris</i>
1437	<i>Parnassia palustris</i>
1481	<i>Pinguicula vulgaris</i>
1729	<i>Rubus idaeus</i>
1786	<i>Salix cin. ole.</i>
1828	<i>Hieracium sp.</i>
1832	<i>Hieracium sp.</i>
1906	<i>[Sabaudia]</i>
1958	<i>Semibala hibernica</i>
2054	<i>Sorbus oria. s. s.</i>
	<i>Symlocarpium robertianum.</i>

1388 Potm	1239 Mitr	893 Cras	309 Ccho	Frail	CRASSES
1396	1247	897	313	444	26
1397	1248	898	314	445	33
1398	1249	899	315	446	34
1399	1250	900	316	447	35
1400	1251	901	317	448	36
1401	1252	902	318	449	37
1402	1253	903	319	450	38
1403	1254	904	320	451	39
1404	1255	905	321	452	40
1405	1256	906	322	453	41
1406	1257	907	323	454	42
1407	1258	908	324	455	43
1408	1259	909	325	456	44
1409	1260	910	326	457	45
1410	1261	911	327	458	46
1411	1262	912	328	459	47
1412	1263	913	329	460	48
1413	1264	914	330	461	49
1414	1265	915	331	462	50
1415	1266	916	332	463	51
1416	1267	917	333	464	52
1417	1268	918	334	465	53
1418	1269	919	335	466	54
1419	1270	920	336	467	55
1420	1271	921	337	468	56
1421	1272	922	338	469	57
1422	1273	923	339	470	58
1423	1274	924	340	471	59
1424	1275	925	341	472	60
1425	1276	926	342	473	61
1426	1277	927	343	474	62
1427	1278	928	344	475	63
1428	1279	929	345	476	64
1429	1280	930	346	477	65
1430	1281	931	347	478	66
1431	1282	932	348	479	67
1432	1283	933	349	480	68
1433	1284	934	350	481	69
1434	1285	935	351	482	70
1435	1286	936	352	483	71
1436	1287	937	353	484	72
1437	1288	938	354	485	73
1438	1289	939	355	486	74
1439	1290	940	356	487	75
1440	1291	941	357	488	76
1441	1292	942	358	489	77
1442	1293	943	359	490	78
1443	1294	944	360	491	79
1444	1295	945	361	492	80
1445	1296	946	362	493	81
1446	1297	947	363	494	82
1447	1298	948	364	495	83
1448	1299	949	365	496	84
1449	1300	950	366	497	85
1450	1301	951	367	498	86
1451	1302	952	368	499	87
1452	1303	953	369	500	88
1453	1304	954	370	501	89
1454	1305	955	371	502	90
1455	1306	956	372	503	91
1456	1307	957	373	504	92
1457	1308	958	374	505	93
1458	1309	959	375	506	94
1459	1310	960	376	507	95
1460	1311	961	377	508	96
1461	1312	962	378	509	97
1462	1313	963	379	510	98
1463	1314	964	380	511	99
1464	1315	965	381	512	100
1465	1316	966	382	513	101
1466	1317	967	383	514	102
1467	1318	968	384	515	103
1468	1319	969	385	516	104
1469	1320	970	386	517	105
1470	1321	971	387	518	106
1471	1322	972	388	519	107
1472	1323	973	389	520	108
1473	1324	974	390	521	109
1474	1325	975	391	522	110
1475	1326	976	392	523	111
1476	1327	977	393	524	112
1477	1328	978	394	525	113
1478	1329	979	395	526	114
1479	1330	980	396	527	115
1480	1331	981	397	528	116
1481	1332	982	398	529	117
1482	1333	983	399	530	118
1483	1334	984	400	531	119
1484	1335	985	401	532	120
1485	1336	986	402	533	121
1486	1337	987	403	534	122
1487	1338	988	404	535	123
1488	1339	989	405	536	124
1489	1340	990	406	537	125
1490	1341	991	407	538	126
1491	1342	992	408	539	127
1492	1343	993	409	540	128
1493	1344	994	410	541	129
1494	1345	995	411	542	130
1495	1346	996	412	543	131
1496	1347	997	413	544	132
1497	1348	998	414	545	133
1498	1349	999	415	546	134
1499	1350	1000	416	547	135

WOODY - CLIMBERS	3 Acer	221 Arce	240 Betul	246 Bryon	248 Carya	249 Carya	250 Carya	251 Carya	252 Carya	253 Carya	254 Carya	255 Carya	256 Carya	257 Carya	258 Carya	259 Carya	260 Carya	261 Carya	262 Carya	263 Carya	264 Carya	265 Carya	266 Carya	267 Carya	268 Carya	269 Carya	270 Carya	271 Carya	272 Carya	273 Carya	274 Carya	275 Carya	276 Carya	277 Carya	278 Carya	279 Carya	280 Carya		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

ANIMAL RECORD	REGN. LMA	DIVN. MAN	AREA	SITE R203A B165
SITE NAME Wye Dale	RECORDER B.M. Corleton	WEATHER Overcast and close at first, hot with little wind. Becoming sunnier & clear later, but still hot & dry.		LANDFORM 1 2 3 4 5 6 7 Very varied with cutting where the line goes through some embankments the former times it crosses the R. Wye etc. Old line station to E.. Most cuttings are sheer rock.
N.P. 152 1/4 → 0 1/4	TIPPING Locally heavy on old line & emb. by R. Wye	DATE 26.7.79	TIME 1400 → 1835	
COUNTY Derbyshire	N.L.U. Rough grasslands, wood, road & river etc.			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	0	20	700	The site is continuous with the neighbouring vegetation types and shares much of its value. The sedge cuttings with their spongy grassland & light scrub have excellent habitat for phytophagous insects. There scrub & the woodland an extensive & varied canopy to provide cover and territory opportunities for many birds and other animals. It is a fairly quiet line and not as accessible as much of the dales around. It has no outland but the R. Wye is very close at several points. It is a valuable portion of protected dales habitat and a refuge for many spp. from the disturbed neighbourhood.	Birds (small)	4	4	4
0	5	20	700		Birds (large)	3	3	3
1	1	15	700		Mamm. (small)	3	3	3
1	6	15	700		Mamm. (large)	2	2	2
4	3	20	700		Other verts.	.	3	2
6	5	5	703		Lepidoptera	4	.	3
6	8	2	703		Other insects	4	4	4
					Other inverts.	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Swift	3270	3	Bank Vole	2	Large White	
Red Wagtail	5032	1	Fox	2	Crambid moth	
Grey Wagtail	5050	1	Rabbit	2	<u>Cras nemoralis</u>	
Swallow	3610	2			<u>Vespula</u> sp.	
Carton Crow	3681	2			<u>Bombus</u> sp.	
Blackbird	4240	2			<u>Arion</u> / <u>lucorum</u> sp.	
Willow Warbler	4720	2			<u>Lasius</u> sp. & hills	
Starling	5180	1			Various:	
Woodpecker	2990	1			Arachnida (inc. wolf spider)	
					Isopoda	
					Orthoptera	
					Diptera	
					Hemiptera (inc. Cicadellid)	
					Δ Aphidid	
					Diplopoda (inc. Glanaria)	
TOTALS	contd. over		contd. over		contd. over	
TOTALS	contd. over		contd. over		contd. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Casey Bridge

Map Ref SJ751518

Data bank ref

NCC Region West Midland

County Cheshire

Internal ref A211

STATUS

Part of	Adjacent to	NNR	PNNR	LNR	SSSI	
---------	-------------	-----	------	-----	------	--

County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - Random Survey Site

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Old sand excavations recolonised to give variety of somewhat calcifuge communities, also on cutting slopes.
)
Geological)

RAILWAY REGION LMR DIVISION Crewe

AREA -

Address of Area Civil Engrs Office W.G. Cutting (D.C.E.)

Telephone number

Rail Ho.
Gresty Rd.
CREWE.

Tel. No. 0270 55123 extn. 2459

Name of railway line Euston → Crewe

Access at Minor rd. bridge over at SJ750519 (Casey Bridge) Mileage post 156

NOTIFICATION

	With whom	By whom	Date	Ref.
Site notified to BR				
Management agreement (see section 3 for detail)				

VISITS

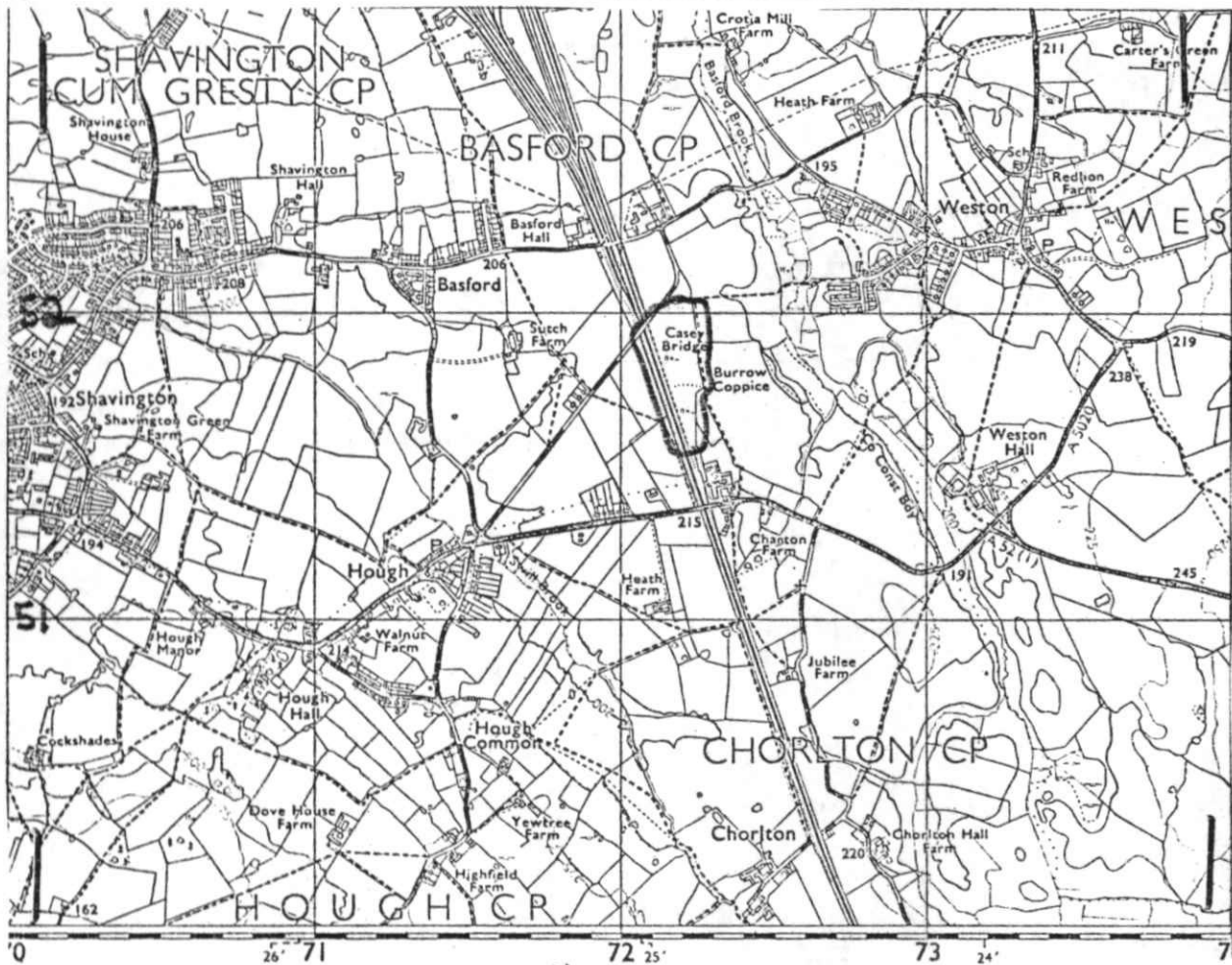
Date	By whom	Assessment/Action
<u>31st July 1979</u>	<u>B.M. Carleton,</u> <u>J.O. Mountford</u> <u>D. de B. Welchman</u>	<u>A good site in a region of industry and improved pasture with very little semi-natural vegetation. The line side itself is an average sandy cutting but the east side includes an extensive area of rough ground probably derived from old sand & gravel working. These have a good general flora with a number of local or demanding spp. and of sufficient size and diversity to be a valuable animal site. Its position on the urban fringe is helpful.</u> <u>Recommend the site be notified to BR and monitored. Used for scrambling at the moment it is otherwise undisturbed and could make a useful educational site. It has considerable potential if managed sympathetically.</u> Continue overlea

FILE OPENED BY ITE Monks Wood

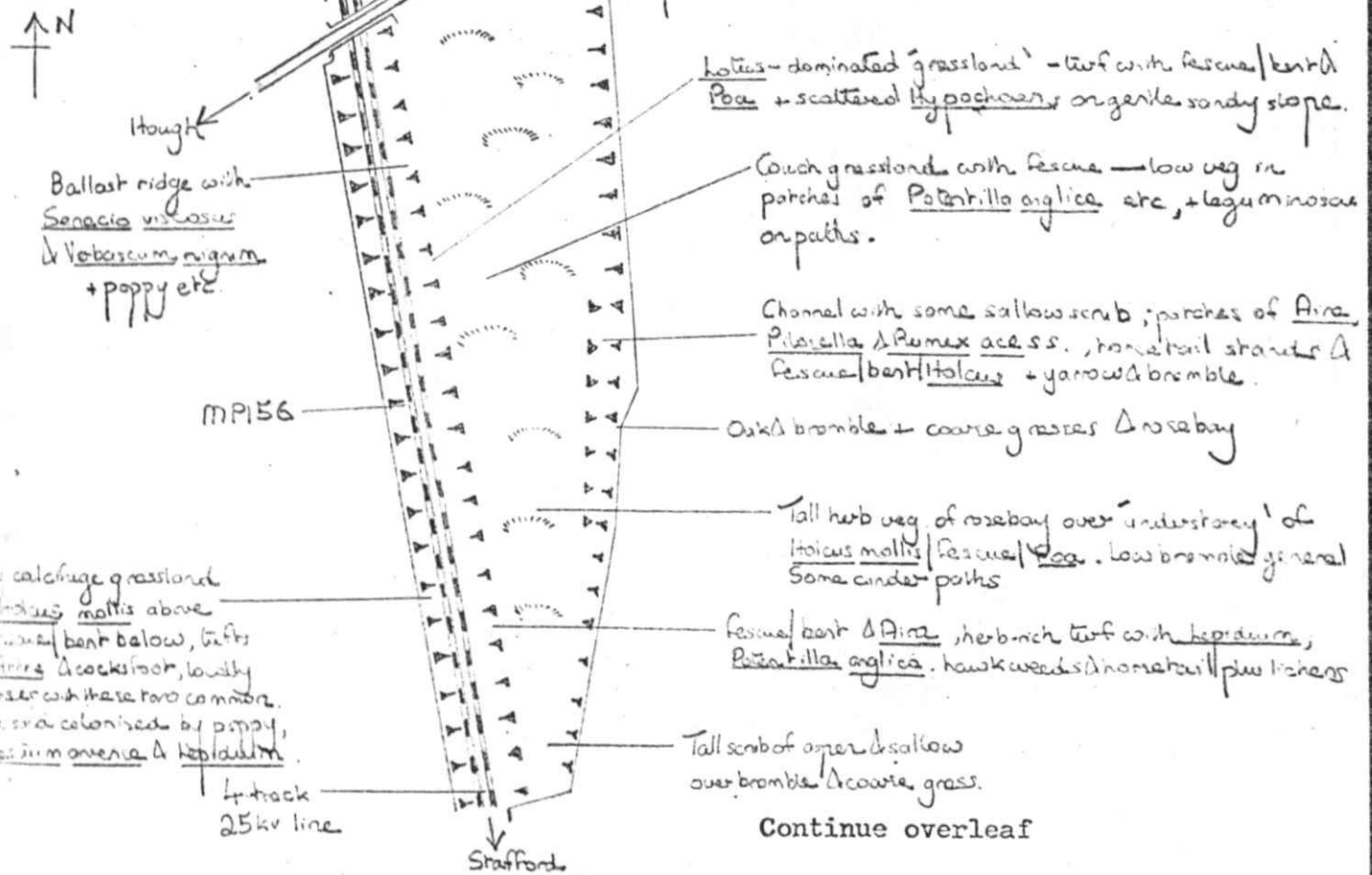
DATE 22nd Jan. 1980

LOCATION STATUS

<u>Accurate</u>	Approximate
-----------------	-------------



SKETCH MAP



SITE NAME Casby Bridge

CDB ref

(Section 3)
Internal ref R211Altitude 210'Local Geology Glacial Sand & Gravel over Triassic: Kupper MarNeighbouring landuses Improved pasture & marshalling yard.

DIRECTION FROM ACCESS

N	E	W	S	E	W	or	BOTH
---	---	---	----------	---	---	----	------

Dist from * access point	0 → 400m	0 → 200m	0 → 350m	0 → 400m	350 → 400m			
Side of track °	W.	E.	E.	E.	E.			
Landform x	Cut./Flat	Ridge	Flat	Cut.	Flat			
Aspect-degrees	80°	—	—	260°	—			
Width-metres	6+3m.	2m.	→60m	c. 4m	→30m			
Disturbance +	M. Ball	S. Ball	L. Tipp.	—	—			

- * If site is both sides of access point, precede distance by cardinal point
 ° Indicate side of track by compass cardinal point
 x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
 + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Only second recent Cheshire record of Carex ovata. Presence of Lepidium heterophyllum and Aurealis leptocladus, both rare in the county, and Verbascum nigrum, probably a casual. Good area of re-colonized sand & gravel workings.

General vegn characteristics and habitat description indicate side of track
 The west side is a low cutting through the sand and gravel with a narrow flat above. The main area is a dry calcifuge herb-asp-poor grassland with very few woody plants. Holcus mollis is common with areas of tussock/bent and patches of Amblyopogon, Dactylis & couch. These coarse grasses are particularly common where ballast has been dumped. Lotus, Plantago & Vicia cracca are occasional, as is bramble and there are patches of Carex ovata and Lepidium on bare sand [column 1]. The east side is very much broader, up to 150m. The edge by the line has a ridge of recently dumped ballast colonized by Senecio viscosus with poppy & Verbascum nigrum also present. [column 2] The main portion is an area of old sand and gravel excavations re-colonized in a mosaic of mainly herbaceous communities. Short turf areas and paths have Aira spp. with clover, tussock/bent & Potentilla anglica, plus lichens. Some parts are dominated by Lotus, Polygonum, & Hypochaeris, and slightly disturbed areas have Rumex acetosella and Lepidium heterophyllum. Around the edge of such places are stands of horsetail, or coarse tussock/bent grassland with Holcus & yellow. Linaria, Hieracium spp., vetches and Carex hirta occur with these taller grassland types and also as an understory to dense rosebay stands. The coarse grassland becomes increasingly sp-poor and more dominated by couch & thistles. Finally there are scattered areas of sallow scrub or hawthorn/bramble and gorse/broom. [column 3]. The far southern area has a distinct area of aspen and sallow scrub over bramble and coarse grasses. [column 5]. The low cutting bent up to the edge of BR land is much more typical BR veg. with oak/hawthorn scrub, a lot of low bramble, tall rosebay stands and coarse herb-asp-poor grassland of Amblyopogon, couch & cocksfoot plus road/tax [column 4]. The site becomes increasingly poor & coarse to the north and wherever the colonisation is well-advanced. Carex ovata is locally common on the turf flats in the S. part of the E. side.

PREFERRED MANAGEMENT

Growing & cutting back of rosebay/bramble/tall grasses.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None.

form 31.7.79.

Continue overleaf

ANIMAL RECORD	REGN. LMA	DIVN. CREWE	AREA	SITE R211
SITE NAME Casey Bridge	RECORDER B.M. Coulton and D. de B. Walshman	WEATHER Fairly warm but with a strong breeze, cooling in exposed places. Much cloud but generally sunny & threatening rain later.		LANDFORM ① 2 3 4 ⑤ 6 7 The west side is a normal low cutting with a flat above. The east side has a ballast ridge and then a very uneven broad 'flat' of colonised excavations.
M.P. 156	TIPPING Considerable sinder tipping, some ballast lines	DATE 31.7.79	TIME 1000 → 1330	
COUNTY Cheshire	N.L.U. Improved grassland			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	10	700	The bulk of the site is herb-rich grassland on sand, gravel & sinder of old excavations. Areas of scrub occur near the fence especially in the S.. Some of the grassland is coarse, that on the cutting slopes could be referred to as grass-herb. The better E. side though is really erest ground. The line is very busy and there is disturbance from motor vehicles. It is however due to its position and site a pretty good site for birds and mammals, and a varied one for invertebrates in general. The water area to the N. is much poorer, the NL average.	Birds (small)	3	3	3
1	3	10	700		Birds (large)	2	2	2
1	6	20	700		Mamm. (small)	4	3	3
6	9	60	703		Mamm. (large)	2	1	1
					Other verts.	.	2	2
					Lepidoptera	3	.	3
					Other insects	4	4	4
				Other inverts.	3	3	3	

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Woodpigeon	2990	1	Rabbit	4	Large White	
Starling	5180	1			Meadow Brown	
Swallow	2610	2			Goldkeeper	
Willow Warbler	4720	1			Pyralid moth	
Blue Tit	3800	1			Cinnabar caterpillars	
Whitethroat	4610	1			6-spot breast moth	
					<u>Phalaenocha fulva</u>	
					7-spot ladybird	
					Lepid. sp. A. hills.	
					Apis	
					Orange-tailed Bumble-bee	
					Buff " " "	
					Various:	
					Orthoptera	
					Diptera (houseflies)	
					Hemiptera (froglopper)	
contd. over			contd. over		contd. over	
Lapwing	1850	6				
Feral Dove	2970	1				
Stock Dove	2980	1				
Yellowhammer	5580	1				
Goldfinch	5350	1				
Maggie	3720	1				
Herring Gull	2560	1				
Black-headed Gull	2630	1				
Greenfinch	5330	1				
contd. over			contd. over		contd. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Consall

Map Ref SK000489 Data bank ref

NCC Region West Midlands

County Staffordshire

Internal ref R213

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI	
---------	-------------	-----	------	-----	------	--

County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - Random Survey Site

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Cinder & ballast flats, old station. Tall herb communities
) Woodland of gear, willow and ash. Watercress meadow
Geological) & marsh communities.

RAILWAY REGION LMA DIVISION Crews

AREA -

Address of Area Civil Engrs Office W. G. Cutting (D.C.E.)

Telephone number

Rail Ho.
Gresty Rd.
CREWE.

Tel. No. 0270 55123 extn. 2459

Name of railway line Oakmoor branch (from Leekbrook & Stoke)

Access at Path to Consall forge from village at SJ999491

Mileage post 0 1/4

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
<u>1st August 1979</u>	<u>B.M. Carleton, J.O. Mumford D. de B. Welchman</u>	<u>A site in a beautiful setting between the R. Churnat and the Caudon Canal, with no proper boundary and including a lot of vegetation typical of BR.. The whole valley has considerable biological and aesthetic value and BR land is representative of the region with the added worth of the old station and cinder vegetation, plus a number of local spp.. A good site for BR but not outstanding in local context.</u> <u>* Recommend site be noted and the whole branch to Oakmoor and also the one to Caudon Quarries be examined more closely. An ideal area for nature trails and biological education. Very quiet line but some note to B.R. on management would help.</u>

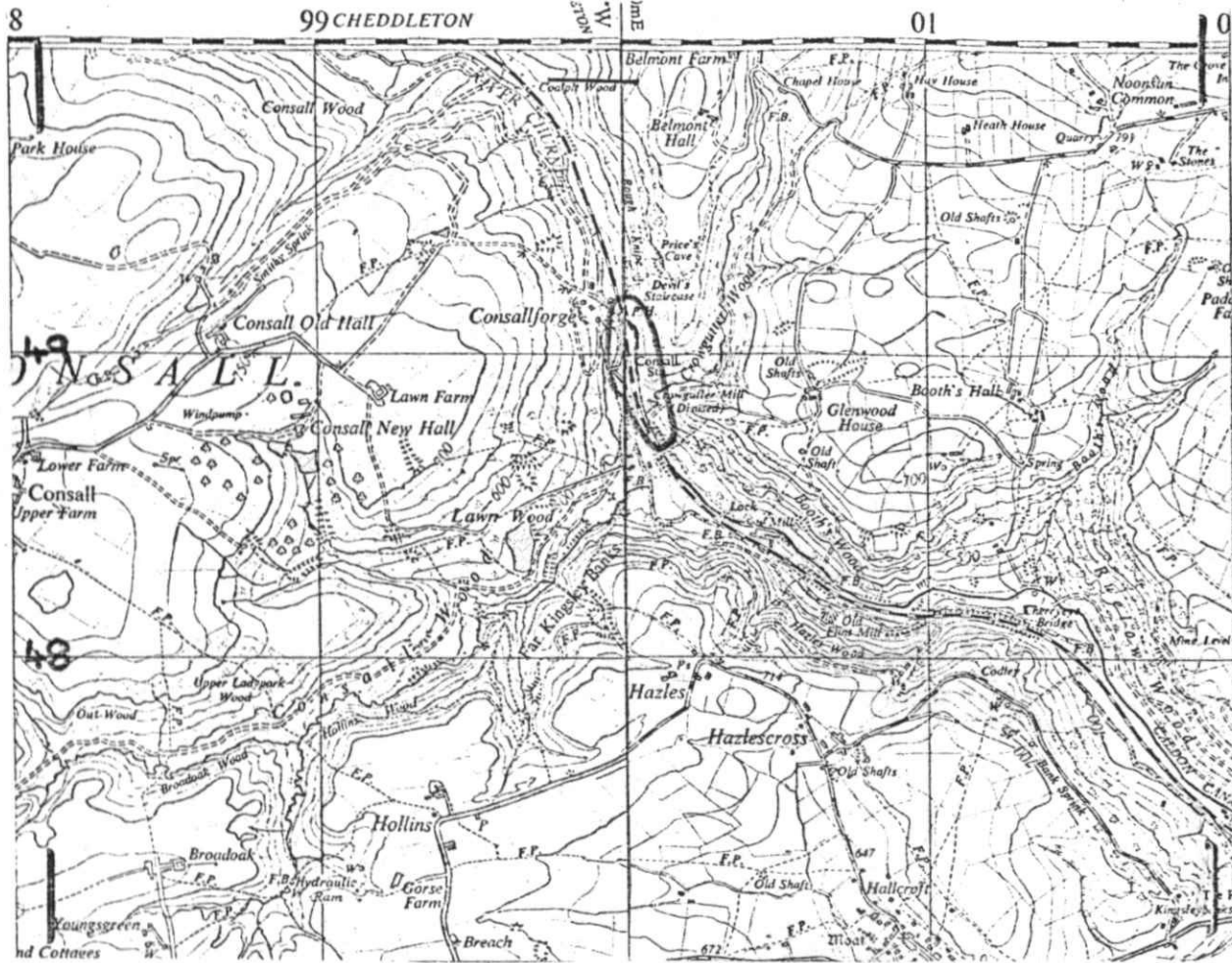
FILE OPENED BY ITE Monks Wood

DATE 22nd Jan. 1980

Continue overleaf

LOCATION STATUS

Accurate	Approximate
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SKETCH MAP

Path to
Consall

Stoke

Black Lion pub



Glyceria maxima sward

fern & tall herb stand on low cinder & soil emb. Male fern, rosebay, nettle & horsetail, plus butterbur & bramble

Rather open low scrub of birch & willow colonising cinder. Patchy grassland of fescue & Poa + Arrhen. Slow bramble. Coarse horsetail stands in more disturbed area.

MPO 1/4

Old Consall Sta. with hut overhanging canal presumably for loading barges

Caldon Canal

Single track line

Continue overleaf

R. Churnet

Tall ash woodland over silt/clay, now with horse manure on ground + many small patches.

Flatter occasionally flooded flat with stones & pebbles covered in butterbur etc. with elder & hazel by river

Old track bed now completely colonised by butterbur & raspberry with Arrhen etc. A low bushier near the line, a scattered nettle & grass elsewhere. Cinder waste.

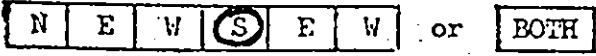
Willow woodland on silt down to river, scrub layer of ash & Hawthorn. Mercury common below. Balsam fringe by river

Altitude 435'

Local Geology Carboniferous: Productive Coal Measures

Neighbouring landuses River, canal, woodland, pasture & hamlet.

DIRECTION FROM ACCESS



Dist from * access point	0 → 150m.	0 → 60m.	0 → 60m.	120 → 180m.	50 → 180m.	0 → 80m.	80 → 180m.	0 → 50m.
Side of track °	E.	E.	E.	both	W	W	W	W
Landform x	Flat	Emb.	Flat	Old Stn.	Flat	Emb.	Emb.	Flat
Aspect-degrees	—	90°	—	—	—	270°	270°	—
Width-metres	4m.	4m.	7m.	2 x 6m.	→ 30m.	12.5m	13m	10m.
Disturbance +	S.Cind.	M.Cind.	—	Various.	M.Cind.	—	—	Flood

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

116 spp and a good variety of ruderal and water-side communities.
Presence of two rare aliens in Staffs.: Goroniun phleum and Sedum reflexum. Also several spp uncommon on BR: Salix pentandra, Pinus palustris, Impatiens glandulifera & Montia sibirica.

General vegn characteristics and habitat description indicate side of track

The east side is generally very narrow by the canal. In general it is a rather open cinder flat to the wall of the canal with open low scrub of birch, willow, oak and ash over a patchy grassland of fescue, Poa, Anthratharum and low bramble. Bare cinder ballast occur and esp. in the north are quite disturbed and support coarse hometail stands intermediate with the rest. [column 1]. The low emb above the bank of the canal has mixed mala fern and tall herb veg. with rosebay, nettle and horse tail all common with butterbur. A more low bramble on upper slope. [column 2]. The flat on the inside of the canal bank is almost pure Glyceria maxima with occasional nettle and goosegrass and some sedges colonising. [column 3]. The buildings and platforms of the old station have a patchy veg. on cinder and in crevices of grasses & clover resistant to trampling, Hypericum, fern and Mycelis. [column 4]. The broad flat behind the platform on the west side includes an old horse track. A cinder flat now invisible & completely colonised. In the south and near the platform is mixed forb-rich grassland of Anthratharum, fescue, cocksfoot, Hypericum, clover, Furaria and low bushes of willow and birch. Near the river it becomes completely dominated by a mixture of butterbur and rosebay with nettle, hogweed, goosegrass and Anthratharum all occasional. There is a good population of pleurocarpus mares below [column 5]. The slope down to the river is covered in woodland. In the north this is ash over bird cherry, with hawthorn, bramble & birch near the line. The ground cover is ivy, thinning out below and there are large patches of mercury & nettle. [column 6]. In the south the chief tree is crack willow, with a scrub layer of hawthorn & ash. Again there are large patches of mercury but ivy and nettle is rare. Here the slope goes right down to the river's edge where there is a thick fringe of balsam [column 7]. Below the slope to the north is a broad stony and ridged flat with occasional large puddles, which is probably flooded regularly. It is covered in a butterbur stand with emergent Phalaris, Poa trivialis & Festuca ovina. By the river are alder trees with balsam, bell flower & Montia [column 8].

PREFERRED MANAGEMENT

Some cutting of the rough grassland & tall-herb stands to encourage sp. diversity & lower-growing spp

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None but much disturbance by tipping & trampling as well as flooding by river & canal

1.8.79 form.

N	E	W	S	E	W
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CRASSES	Additional Species	CODE	NAME
26 Agrop	Agrostis gigantea	36	
35 Agros	Agrostis repens	254	
39	Agrostis sibirica	316	
41 Aira	Agrostis sibirica	524	
42 Alope	Agrostis sibirica	1729	
84	Agrostis sibirica	1786	
85	Agrostis sibirica	1799	
ARRIE	Agrostis sibirica	1828	
220 Avena	Agrostis sibirica	1832	
249 Brach	Agrostis sibirica	1881	
250 Brach	Agrostis sibirica		
256 Briza	Agrostis sibirica		
262 Dromu	Agrostis sibirica		
263	Agrostis sibirica		
268	Agrostis sibirica		
269	Agrostis sibirica		
272	Agrostis sibirica		
293 Calam	Agrostis sibirica		
299 Cynos	Agrostis sibirica		
300 DACTY	Agrostis sibirica		
303 Dusch	Agrostis sibirica		
328	Agrostis sibirica		
315 Fettu	Agrostis sibirica		
821	Agrostis sibirica		
823	Agrostis sibirica		
825	Agrostis sibirica		
815 Festu	Agrostis sibirica		
933 Glyce	Agrostis sibirica		
961 Helle	Agrostis sibirica		
962	Agrostis sibirica		
969 Holcu	Agrostis sibirica		
984	Agrostis sibirica		
992 Horde	Agrostis sibirica		
993	Agrostis sibirica		
1072 Koelle	Agrostis sibirica		
1182 Lolu	Agrostis sibirica		
1263 Melic	Agrostis sibirica		
1296 Niliu	Agrostis sibirica		
1307 Molin	Agrostis sibirica		
1344 Nardu	Agrostis sibirica		
1461 Phica	Agrostis sibirica		
1465 Phrag	Agrostis sibirica		
1499	Agrostis sibirica		
1504	Agrostis sibirica		
1506	Agrostis sibirica		
1915 Siegl	Agrostis sibirica		
2126 Vuipi	Agrostis sibirica		
2128	Agrostis sibirica		
WOODY - CLIMBERS			
3 Acer			
2241 Acteu			
2242 Alnus			
2243 Betul			
2244 Bryon			
2245 Buxus			
2246 Carya			
2247 Casta			
2248 Carya			
2249 Carya			
2250 Carya			
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2398 Carya			
2399 Carya			
2400 Carya			

SITE NAME **Consall**

CDB ref

Internal ref **R213**

BRYOPHYTES

DATE **1.8.79**

RECORDER **John Mansford id. CMS**

Additional Species

CODE

NAME

001	Acro cord	0874	virf	185	rufe	269	osmu	363	myur	460	Pleu acum	546	pauc	681	Adel	790	Leto	883	laev
002	Acro cord	0875	arce	186	schr	272	rufu	364	siri	461	subu	547	pusi	682	Anas	791	bant	884	plin
003	Acro cord	0876	arce	187	squa	273	taxi	365	Lept	462	Pleu squa	548	recu	683	Anas	792	muel	885	plat
004	Acro cord	0877	lana	188	subu	274	virf	366	ripi	463	Pleu schr	549	trif	684	Anth	793	turb	886	thuj
005	Acro cord	0878	bico	189	vari	275	anti	367	Lept	464	Pohl acum	551	trif	685	Anth	794	cavi	887	Prei
006	Acro cord	0879	caes	190	Dier	276	onri	368	Lept	465	Pohl acum	552	nova	686	Anth	795	Leje	888	quid
007	Acro cord	0880	cana	191	axpe	277	grac	369	Lept	466	annot	553	comp	687	huu	801	lami	889	chil
008	Acro cord	0881	capu	192	denu	278	grac	370	Lept	467	annot	554	Spha	688	huu	802	lami	890	puic
009	Acro cord	0882	deon	193	uncu	279	grac	371	Lept	468	annot	555	comp	689	huu	803	lami	891	radu
010	Acro cord	0883	deon	194	Cirr	280	atte	372	Lept	469	annot	556	comp	690	huu	804	lami	892	comp
011	Acro cord	0884	deon	195	Cirr	281	atte	373	Lept	470	annot	557	comp	691	huu	805	lami	893	comp
012	Acro cord	0885	deon	196	Cirr	282	atte	374	Lept	471	annot	558	comp	692	huu	806	lami	894	comp
013	Acro cord	0886	deon	197	Cirr	283	atte	375	Lept	472	annot	559	comp	693	huu	807	lami	895	comp
014	Acro cord	0887	deon	198	Cirr	284	atte	376	Lept	473	annot	560	comp	694	huu	808	lami	896	comp
015	Acro cord	0888	deon	199	Cirr	285	atte	377	Lept	474	annot	561	comp	695	huu	809	lami	897	comp
016	Acro cord	0889	deon	200	Cirr	286	atte	378	Lept	475	annot	562	comp	696	huu	810	lami	898	comp
017	Acro cord	0890	deon	201	Cirr	287	atte	379	Lept	476	annot	563	comp	697	huu	811	lami	899	comp
018	Acro cord	0891	deon	202	Cirr	288	atte	380	Lept	477	annot	564	comp	698	huu	812	lami	900	comp
019	Acro cord	0892	deon	203	Cirr	289	atte	381	Lept	478	annot	565	comp	699	huu	813	lami	901	comp
020	Acro cord	0893	deon	204	Cirr	290	atte	382	Lept	479	annot	566	comp	700	huu	814	lami	902	comp
021	Acro cord	0894	deon	205	Cirr	291	atte	383	Lept	480	annot	567	comp	701	huu	815	lami	903	comp
022	Acro cord	0895	deon	206	Cirr	292	atte	384	Lept	481	annot	568	comp	702	huu	816	lami	904	comp
023	Acro cord	0896	deon	207	Cirr	293	atte	385	Lept	482	annot	569	comp	703	huu	817	lami	905	comp
024	Acro cord	0897	deon	208	Cirr	294	atte	386	Lept	483	annot	570	comp	704	huu	818	lami	906	comp
025	Acro cord	0898	deon	209	Cirr	295	atte	387	Lept	484	annot	571	comp	705	huu	819	lami	907	comp
026	Acro cord	0899	deon	210	Cirr	296	atte	388	Lept	485	annot	572	comp	706	huu	820	lami	908	comp
027	Acro cord	0900	deon	211	Cirr	297	atte	389	Lept	486	annot	573	comp	707	huu	821	lami	909	comp
028	Acro cord	0901	deon	212	Cirr	298	atte	390	Lept	487	annot	574	comp	708	huu	822	lami	910	comp
029	Acro cord	0902	deon	213	Cirr	299	atte	391	Lept	488	annot	575	comp	709	huu	823	lami	911	comp
030	Acro cord	0903	deon	214	Cirr	300	atte	392	Lept	489	annot	576	comp	710	huu	824	lami	912	comp
031	Acro cord	0904	deon	215	Cirr	301	atte	393	Lept	490	annot	577	comp	711	huu	825	lami	913	comp
032	Acro cord	0905	deon	216	Cirr	302	atte	394	Lept	491	annot	578	comp	712	huu	826	lami	914	comp
033	Acro cord	0906	deon	217	Cirr	303	atte	395	Lept	492	annot	579	comp	713	huu	827	lami	915	comp
034	Acro cord	0907	deon	218	Cirr	304	atte	396	Lept	493	annot	580	comp	714	huu	828	lami	916	comp
035	Acro cord	0908	deon	219	Cirr	305	atte	397	Lept	494	annot	581	comp	715	huu	829	lami	917	comp
036	Acro cord	0909	deon	220	Cirr	306	atte	398	Lept	495	annot	582	comp	716	huu	830	lami	918	comp
037	Acro cord	0910	deon	221	Cirr	307	atte	399	Lept	496	annot	583	comp	717	huu	831	lami	919	comp
038	Acro cord	0911	deon	222	Cirr	308	atte	400	Lept	497	annot	584	comp	718	huu	832	lami	920	comp
039	Acro cord	0912	deon	223	Cirr	309	atte	401	Lept	498	annot	585	comp	719	huu	833	lami	921	comp
040	Acro cord	0913	deon	224	Cirr	310	atte	402	Lept	499	annot	586	comp	720	huu	834	lami	922	comp
041	Acro cord	0914	deon	225	Cirr	311	atte	403	Lept	500	annot	587	comp	721	huu	835	lami	923	comp
042	Acro cord	0915	deon	226	Cirr	312	atte	404	Lept	501	annot	588	comp	722	huu	836	lami	924	comp
043	Acro cord	0916	deon	227	Cirr	313	atte	405	Lept	502	annot	589	comp	723	huu	837	lami	925	comp
044	Acro cord	0917	deon	228	Cirr	314	atte	406	Lept	503	annot	590	comp	724	huu	838	lami	926	comp
045	Acro cord	0918	deon	229	Cirr	315	atte	407	Lept	504	annot	591	comp	725	huu	839	lami	927	comp
046	Acro cord	0919	deon	230	Cirr	316	atte	408	Lept	505	annot	592	comp	726	huu	840	lami	928	comp
047	Acro cord	0920	deon	231	Cirr	317	atte	409	Lept	506	annot	593	comp	727	huu	841	lami	929	comp
048	Acro cord	0921	deon	232	Cirr	318	atte	410	Lept	507	annot	594	comp	728	huu	842	lami	930	comp
049	Acro cord	0922	deon	233	Cirr	319	atte	411	Lept	508	annot	595	comp	729	huu	843	lami	931	comp
050	Acro cord	0923	deon	234	Cirr	320	atte	412	Lept	509	annot	596	comp	730	huu	844	lami	932	comp
051	Acro cord	0924	deon	235	Cirr	321	atte	413	Lept	510	annot	597	comp	731	huu	845	lami	933	comp
052	Acro cord	0925	deon	236	Cirr	322	atte	414	Lept	511	annot	598	comp	732	huu	846	lami	934	comp
053	Acro cord	0926	deon	237	Cirr	323	atte	415	Lept	512	annot	599	comp	733	huu	847	lami	935	comp
054	Acro cord	0927	deon	238	Cirr	324	atte	416	Lept	513	annot	600	comp	734	huu	848	lami	936	comp
055	Acro cord	0928	deon	239	Cirr	325	atte	417	Lept	514	annot	601	comp	735	huu	849	lami	937	comp
056	Acro cord	0929	deon	240	Cirr	326	atte	418	Lept	515	annot	602	comp	736	huu	850	lami	938	comp
057	Acro cord	0930	deon	241	Cirr	327	atte	419	Lept	516	annot	603	comp	737	huu	851	lami	939	comp
058	Acro cord	0931	deon	242	Cirr	328	atte	420	Lept	517	annot	604	comp	738	huu	852	lami	940	comp
059	Acro cord	0932	deon	243	Cirr	329	atte	421	Lept	518	annot	605	comp	739	huu	853	lami	941	comp
060	Acro cord	0933	deon	244	Cirr	330	atte	422	Lept	519	annot	606	comp	740	huu	854	lami	942	comp
061	Acro cord	0934	deon	245	Cirr	331	atte	423	Lept	520	annot	607	comp	741	huu	855	lami	943	comp
062	Acro cord	0935	deon	246	Cirr	332	atte	424	Lept	521	annot	608	comp	742	huu	856	lami	944	comp
063	Acro cord	0936	deon	247	Cirr	333	atte	425	Lept	522	annot	609	comp	743	huu	857	lami	945	comp
064	Acro cord	0937	deon	248	Cirr	334	atte	426	Lept	523	annot	610	comp	744	huu	858	lami	946	comp
065	Acro cord	0938	deon	249	Cirr	335	atte	427	Lept	524	annot	611	comp	745	huu	859	lami	947	comp
066	Acro cord	0939	deon	250	Cirr	336	atte	428	Lept	525	annot	612	comp	746	huu	860	lami	948	comp
067	Acro cord	0940	deon	251	Cirr	337	atte	429	Lept	526	annot	613	comp	747	huu	861	lami	949	comp
068	Acro cord	0941	deon	252	Cirr	338	atte	430	Lept	527	annot	614	comp	748	huu	862	lami	950	comp
069	Acro cord	0942	deon	253	Cirr														

ANIMAL RECORD	REGN. LMA	DIVN. CREWE	AREA	SITE R213
SITE NAME Consall	RECORDER B.M. Carleton and D. de B. Welchman	WEATHER Bright and sunny. Hot but with occasional very heavy showers. Little wind.		LANDFORM ① 2 3 4 5 ⑥ 7 Between river & canal. The site is mainly flat but has a wall down to the canal & a gentle slope down to the river on its flood plain.
M.P. 0 1/4	TIPPING Heavy but completely collected on flats.	DATE 1.8.79	TIME 1000 → 1600	
COUNTY Staffs.	N.L.U. River, Canal, wood- land, & hemlet.			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	0	20	700	A narrow bank between line & canal is mainly open cinder grassland, marshy flat to the north. The site to the river has a broad tall herb grassy flat with a wooded slope down to the river, on to a marshy & stoney flood plain of the river. A quiet line in an area of good biological value: the railway line having much the same spread of habitats but not outstanding in any way. There is possibly more opportunity for nest- eating birds and phytophagous insects on BR.	Birds (small)	3	3	3
0	5	15	700		Birds (large)	3	2	2
1	6	30	700		Mamm. (small)	3	2	2
2	2	15	700		Mamm. (large)	2	1	1
3	0	15	700		Other verts.	2	2	2
3	3	1	700		Lepidoptera	3	.	3
6	8	10	703		Other insects	3	3	3
				Other inverts.	3	3	3	

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Chaffinch	5550	1			Large White	
Woodpigeon	2990	1			Small White	
Long-tailed Tit	3880	2			Small Tortoiseshell	
					Meadow Brown	
					Buff-tailed Bumble-bee	
					Orange " " "	
					Willow sawfly gall	
					<u>Canis nemoralis</u>	
					Various:	
					Diptera	
					Arachnida (wolf-spider)	
contd. over			contd. over		contd. over	
Blackcap	4570	1				
Pied Wagtail	5032	1				
Great Tit	3790	1				
Mallard	0920	2				
contd. over			contd. over		contd. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Wood End

Map Ref SP108721 Data bank ref

NCC Region West Midlands

County Warwickshire

Internal ref R219

STATUS

Part of	Adjacent to	NNR	PNNR	LNK	SSSI	
---------	-------------	-----	------	-----	------	--

County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - Random Sunny Site

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Mixed onflow carr with damp rich grassland. Rough
) dry grassland, tall herb veg. and blackthorn scrub.
Geological)

RAILWAY REGION LMA DIVISION Birmingham AREA -

Address of Area Civil Engrs Office E.A. Newsers (D.C.E.)

Telephone number

Station House
10 Holliday St.
BIRMINGHAM.

Tel. No. 021-643. Int. extn. 2613.

Name of railway line Birmingham -> Stratford-upon-Avon.

Access at Minor road bridge over at SP106719

Mileage post 8 1/2

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

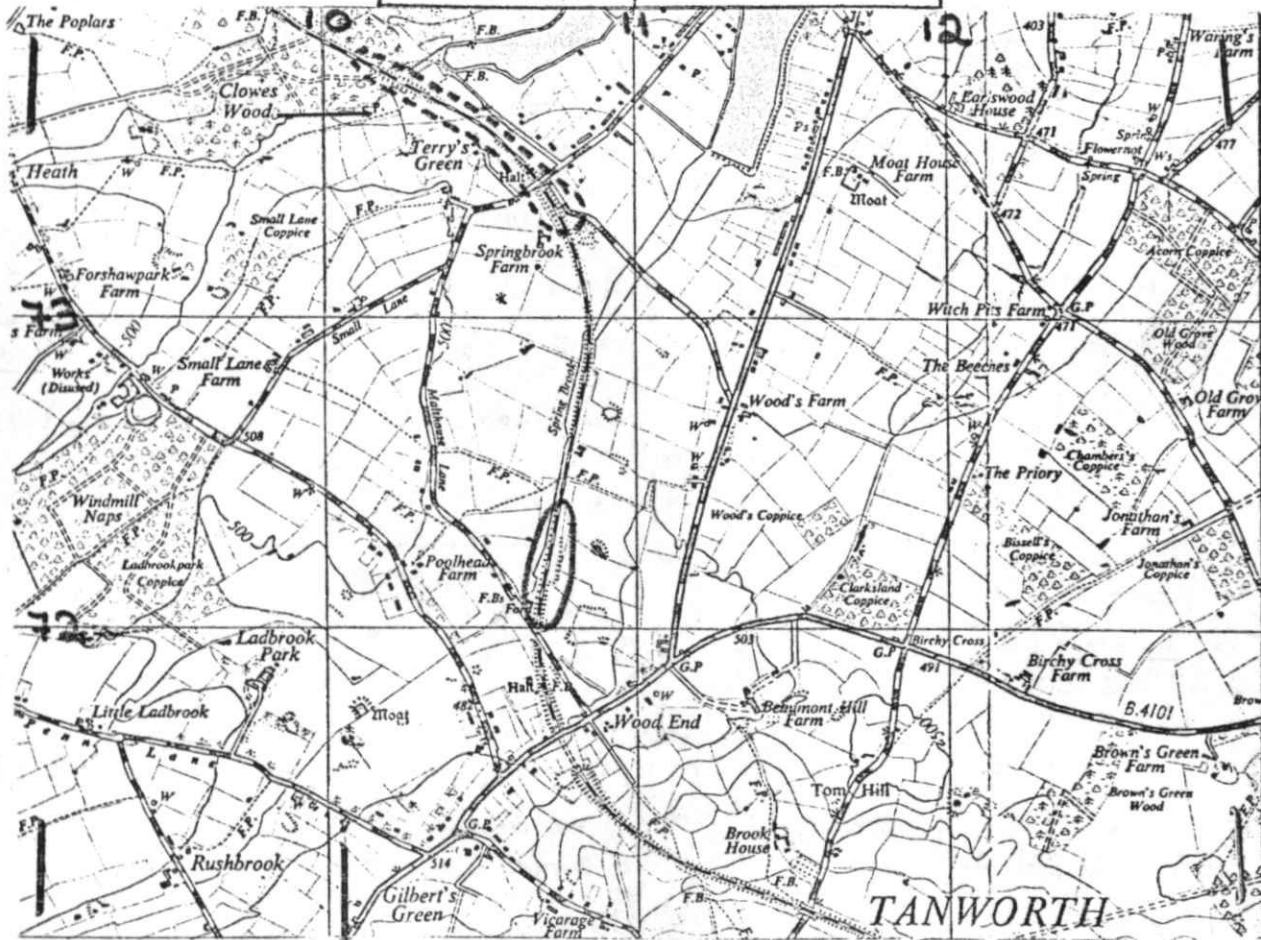
Date	By whom	Assessment/Action
<u>7th August 1979</u>	<u>B.M. Carleton,</u> <u>J.O. Mountford</u> <u>D. de B. Welchman</u>	<u>An average site except for the broad flat of willow carr & damp grassland of the east side. This produces a rich flora with several local or discriminating spp and also good cover & feeding for a variety of animals. In an area of improved pasture and few willows, it is a notable site adding to the conservation value of the site. Overshadowed somewhat by SSSI of Earlswood Reservoir, Clowes Wood & New Felling Coppice nearby it is nonetheless far better than most BR locally.</u> <u>* The site should be noted and some agreement with BR on management made. This should be no problem for the better side since it is well removed from PCW.</u>

Continue overlea

LOCATION STATUS

Accurate

Approximate



O = R219

(---) = B168

SKETCH MAP

more generally herb-poor grassland
 of Arrhenatherum, foxglove, Thistle,
 ragwort, bromble, clover, meadow-
 sweet locally q. common esp. above.
 sward line sprayed & v. herb-poor

Hawthorn scrub, dense
 low with some
 willow

Forshaw Heath

MP8/2

Double line

The Lakes

Hawthorn scrub with willow on low bank
 Nettle, meadowsweet & Epilobium hispidum
 on lower edge by carr with Poa trivialis

Mixed rather damp care grassland of foxglove,
Arrhenatherum, Daschampia cespitosa &
 foxglove.

Willow carr with marshy clearings. Nearest line
 willows & S. fragilis over damp herb-rich mixed
 grassland with rush, willow herb & meadowsweet
 Near-bank tall Salix fragilis over willow, on the
 hawthorn, cattle, bromble, willow herb etc.
 & a lot of moss. Clearings rich in orchids, Leontodon,
Rhisanthus, Lycnis etc.

Tall herb-rich grassland of Arrhenatherum, Festuca, Poa with
 thistle, burnet & cowslip. Bromble colonising & many
 hawthorn bushes. Areas of couch & scabious on
 N-facing slope above carr: Alchemilla & Serratula

Herb & sp-poor Festuca, Arrhenatherum, Poa grassland with
 scattered briar colonising, & some bromble.

Continue overleaf

Wood End & Birch

Altitude 480' → 495' Local Geology Triassic Keuper MarlNeighbouring landuses Improved pasture, playing fields & private garden.

DIRECTION FROM ACCESS

 E W S E W or BOTH

Dist from * access point	0 → 400m	125 → 200m	0 → 200m	0 → 200m	200 → 400m	200 → 400m	200 → 400m
Side of track °	W	W	E	E	E	E	E
Landform x	Cut/Flat	Cut/Flat	Cut	Flat	Flat	Flat	Cut
Aspect-degrees	100°	100°	280°	—	—	—	280°
Width-metres	7+6m.	6+5m.	→9m.	→8m.	6m.	→30m	c. 6m.
Disturbance +	Sprayed	Spray	M. Ball	—	—	Clear	—

- * If site is both sides of access point, precede distance by cardinal point
 ° Indicate side of track by compass cardinal point
 x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
 + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Quite good plant list with *Alchemilla filicaulis* ssp. *vestita*, *Listera* *Serratula* and *Potentilla anglica* all local in N. Warwick, and *Epilobium obscurum*, *Dactylorhiza fuchsii*, *Rhinanthus*, *Silene* etc. not common. A number of garden escapes. Good mixed willow carr.

General vegn characteristics and habitat description indicate side of track

The west side is a poor cutting slope with a flat almost as broad above it. The main cover is *Arrhenatherum* grassland, this being almost pure and very herb- & sp- poor near the line where spraying has occurred. *Elymus farctus*, *thistle* & *bramble* occur with hogweed in the *Arrhenatherum*, or in the richer places *fescue* with *clover* & *meadowweet* etc. [column 1]. The mid area and much of the flat is covered in low dense blackthorn scrub with some *nettle* & *little* etc. Where this approaches the line, the bushes show pronounced scorching from recent spraying [column 2]. The cutting slope opposite on the east side is similar but *fescue* / *Poa* are subdominant to the *Arrhenatherum*, and *bramble* / *brier* are found generally as scattered clumps [column 3]. The broad flat above & round the corner by the carr is locally quite herb-rich with *thistle*, *burnet* & *cowslip* accompanying the *Arrhenatherum* / *fescue* / *Poa*. There are areas of *rosebay*, *cowslip* & *meadowweet* as well as frequent *bramble* and many *hawthorn* bushes. The flat about the carr is *Sp.* and is notably richer with *Alchemilla* and *Serratula* [column 4]. The broad flat to the north is mainly with *woad* covered, but the edge near the line has a coarse herb-poor mixed grassland of *Arrhenatherum* / *foxtail* / *Poa* & *Deschampsia* [column 5]. The willow carr has three main spp: *S. fragilis*, *S. caprea* & *S. cinerea* and two zones. Near the line it is lower with more *sallows* and good populations of *willowherb* & *meadowweet* below, as well as *rushes*. Further away it is twice as tall (5m.) with *crack willow* dominant & no *S. caprea*; *S. cinerea* sub-dominant. The ground layer is much more open and there is a local scrub thicket level of *hawthorn*. *Nettle*, *Deschampsia*, *meadowweet*, *willowherb* & *bramble* all occur fairly sparsely, with a good variety of *willow* & *herb*. There are several good damp grassy clearings of *Poa* / *Arrhenatherum* / *Trisetum* / *Holcus* and *rush* with a *baricolor* *forb-rich* flora including *orchids*, *Lotus* spp., *Rhinanthus*, *Silene*, *cowslip*, *Lycnis*, *Succisa*, & *Leontodon hypoleucus* [column 7]. Patches of *Aster* occur in the carr. The slope up to the fence has much more *hawthorn*, with *sallow* & *marshland* tall herbs near the bottom [column 8]. *Phalaris* grows in a ditch among col. 4.

PREFERRED MANAGEMENT

Some grazing of the grassland. Control of spraying & selective thinning of carr to produce more clearings but to retain generally scrubbed appearance.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

There are pronounced spray symptoms on grass & blackthorn on the W. side, and the brier on the E. cutting seems to have been selectively treated by 2+5T. There is evidence of clearing in the scrub though this is not systematic and is consistent with vandalism. Some ballasting on lower slopes.

dom. 7.8.79

ANIMAL RECORD	REGN.	DIVN.	AREA	SITE
	LMA	BIRM		R219
SITE NAME Wood End	RECORDER B.M. Colston and D.deB. Welchman	WEATHER Generally dull & overcast with very heavy showers and associated high wind, other- wise calm and cool.		LANDFORM ① 2 3 4 ⑤ 6 7 Mainly a medium sized cutting with a broad flat above it to the fence. On the E. side, though 200m. N. of the AP is a very broad flat set well back with a low cutting by the fence
N.P. 8 1/2	TIPPING Old but heavy on flat & lower slopes	DATE 7.8.79	TIME 1345 → 1650	
COUNTY Warwicks	N.L.U. Improved pasture, ploughing fields etc.			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	10	745	The cutting slopes are generally covered in coarse grassland with tall herb & bramble Blackthorn thickets cover part of the slope A show marked spray affects as do the grassy slopes by the line. The broad flat of sallow can have marshy herbaceous clearings. Line not too busy. A bad day to visit weatherwise but apparently good cover in a rather open area and a variety of food and habitats for large and small animals. Not outstanding in context of nearby SSSI but possibly an island of semi-natural veg. at some distance.	Birds (small)	3	3	3
0	6	40	726		Birds (large)	2	2	2
1	6	40	700		Mamm. (small)	3	2	3
2	2	10	700		Mamm. (large)	2	2	2
3	2	-	700		Other verts.	.	2	2
					Lepidoptera	3	.	3
					Other insects	3	3	3
					Other inverts.	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Woodpigeon	2990	1	Common Frog	1	Gallkeeper	
Swift	3270	1	Bank Vole	2	Sawfly gall on willow	
Maggie	3720	2			Larva sp. & hills	
Corn or Crow	3681	1			Buff-tailed Bumble bee	
Blue Tit	3900	1			<u>Rhagozyga fulva</u>	
					Various: Diptera (houseflies) Hemiptera (aphids).	
contd. over			contd. over		contd. over	
contd. over			contd. over		contd. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Silverdale Map Ref SD47.75. Data bank ref
NCC Region North West County Lancashire Internal ref B171

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI	
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County Flora site. State ref -
Local Information site. State source - I.R. Bomer, D.R.O., N.C.C.
Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	<u>Rare</u>	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Limestone rock cutting, grassland & scrub, Cinder flats & old line, Coarse grassland, stream & marsh.
Geological)

RAILWAY REGION LMA DIVISION Preston AREA Barrow

Address of Area Civil Engrs Office J. Dalton
Telephone number Barrow-in-Furness Stn.
CUMBRIA
Tel. No. 0229 21445 extn. 3244.

Name of railway line Carnforth → Barrow-in-Furness.

Access at Red Bridge; one bridge over at SD475758 Mileage post 4

NOTIFICATION

	With whom	By whom	Date	Ref.
Site notified to BR				
Management agreement (see section 3 for detail)				

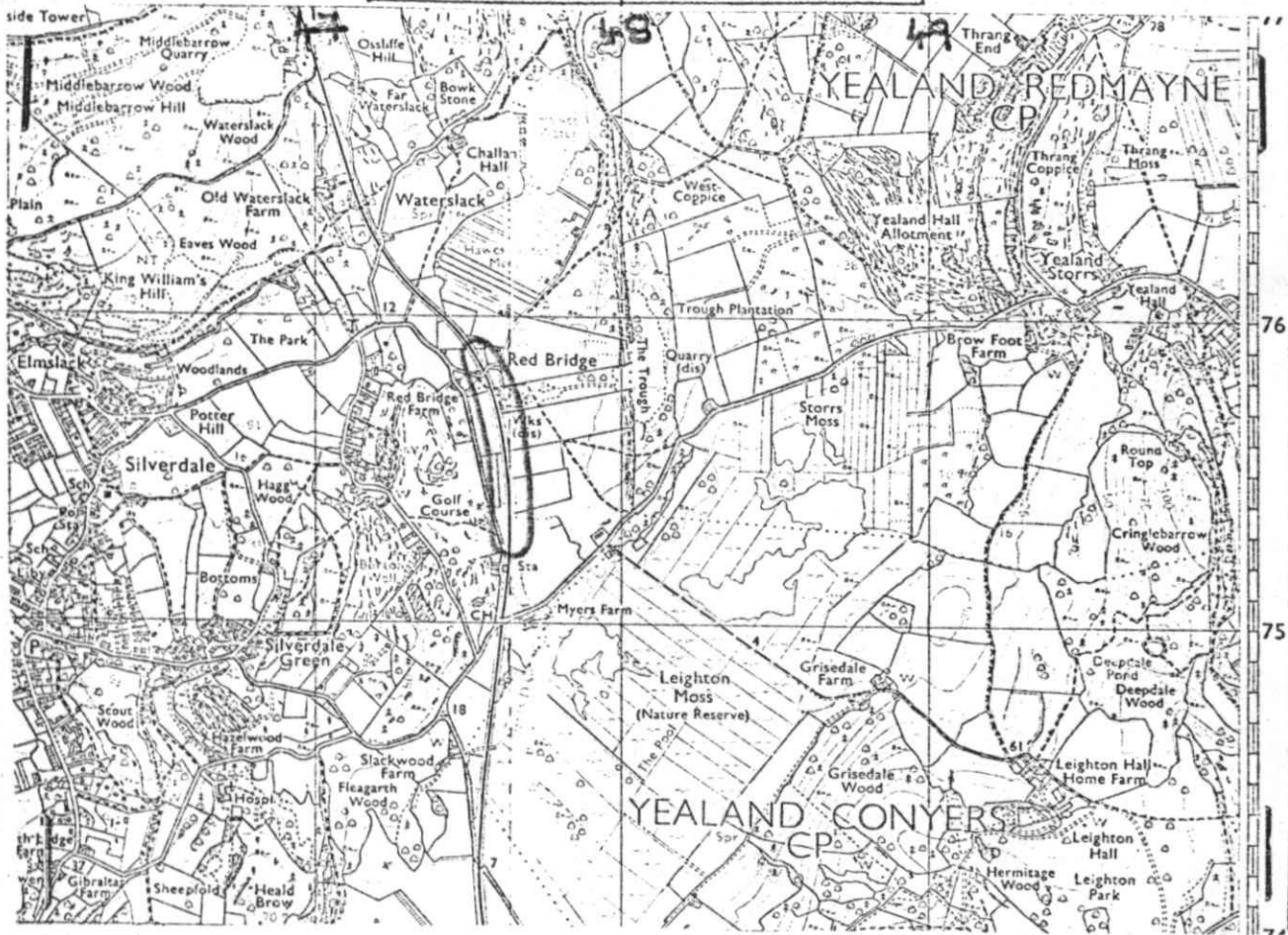
VISITS

Date	By whom	Assessment/Action
20th August 1979	Dr. C.M. Sargent, A. Marsden & J.O. Mountford	An excellent site floristically with fragments of much of the local semi-natural vegetation types and several of the rarer spp. In addition there are areas of more typical railway flora on cinder flats with a number of rare spp. It is also large and varied enough to have a good fauna. Though surrounded by good sites (Silverdale, Arnsida Knott, Leighton Moss etc) this is nonetheless a good addition to the local stock of biologically interesting places. It should be revisited in better weather to gain complete picture and notified to B.A. Though probably not good enough to schedule in the local context, it deserves the protection of a management agreement. Continue overlea

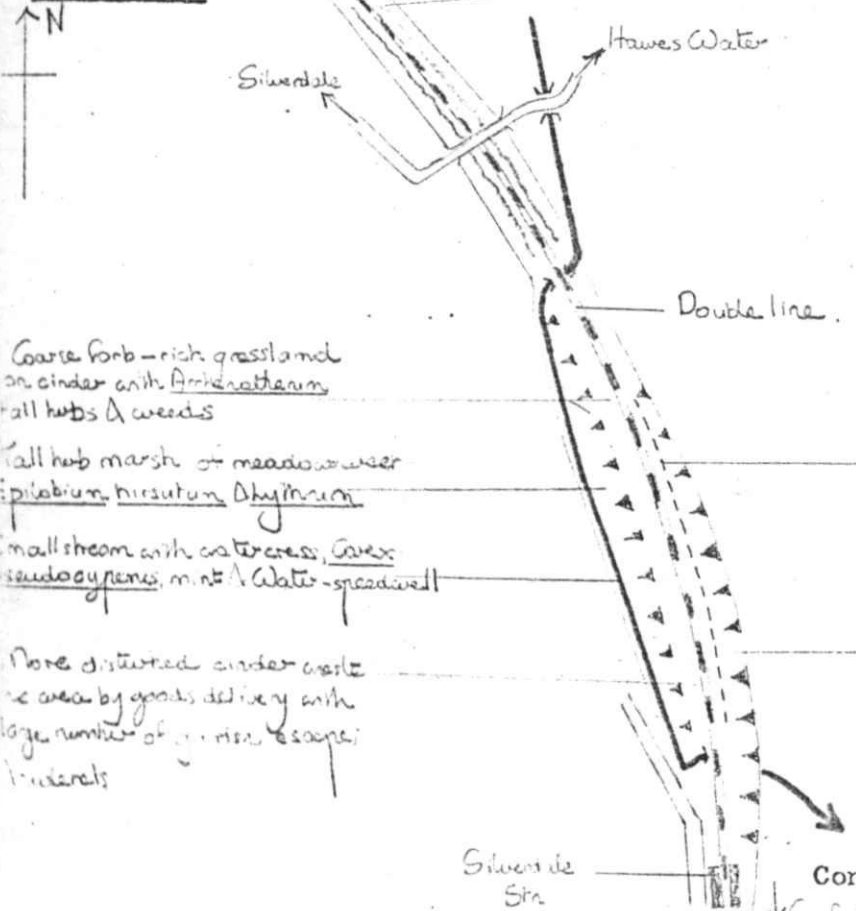
FILE OPENED BY ITE Monks Wood DATE 23rd Jan 1980

LOCATION STATUS

Accurate	Approximate
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SKETCH MAP



Carboniferous Limestone rock cutting with *Sesleria caerulea*, *Pinguicula vulgaris*, *Sedum album*, among typical calcicolous forb-rich grassland on ledges etc. Splenworks on rock & light scrub of birch etc colonising. Flats above covered calcicolous grassland.

Coarse forb-rich grassland on silt with *Arrhenatherum* tall herbs & weeds
 Tall herb marsh of meadow-sweet *Potamogeton*, *hirsutum*, *Dryopteris*
 small stream with watercress, *Carex pseudocyperus*, m.n.s. & Water-spreadwell

Probably old track bed: limestone ballast with other open very forb & sp-rich grassland of limestone etc with *Lupinus*, *repens*, *Origanum*, *Euphrasia* & *Sagina nodosa*

Low cutting bank, grassy below with *Festuca* & *Brachypodium*. Forb-rich with many calcicolous spp & inc *Epipactis atrorubens* & *Filipendula vulgaris* as well as *Lotus* & *Leontodon* etc.

Continue overleaf

Altitude 25' → 40'Local Geology Alluvium by stream; Carboniferous Limestone elsewhereNeighbouring landuses Rough grassland, waste ground

DIRECTION FROM ACCESS

N	E	W	S	E	W
---	---	---	---	---	---

 or BOTH

Dist from * access point	N100 → S.100m	S.150 → 500m	S.150 → 500m	S.150 → 600m	S.150 → 600m	S.150 → 500m	S.150 → 450m
Side of track °	both	E	E	W	W	W	W
Landform x	S.Cut etc	Flat	Cut	Flat	Emb	Flat	Stream
Aspect-degrees	260/80°	—	270°	—	270°	—	—
Width-metres	2x10m	5m	6m	→25m	6m	→15m	1.5m
Disturbance +	—	S.Ball	—	S.Cind	—	—	Flow

- * If site is both sides of access point, precede distance by cardinal point
 ° Indicate side of track by compass cardinal point
 x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
 + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Rare and local spp. include: Epipactis atrorubens, Sesleria, Rubus saxatilis, Filipendula vulgaris, Luula conyzoides, Sagina nodosa, Carex pseudocyperus, Sedum reflexum, Linaria repens etc.. 170 spp. plus good variety of habitats.

General vegn characteristics and habitat description indicate side of track
 The area by the AP is a low to medium Carboniferous limestone cutting with narrow flats above. The is scattered vegetation all over the cliff with calcicolous coarse turf of Sesleria, Helictotrichon fescua plus Rubus saxatilis and a good variety of typical forbs. There is a certain amount of scrub colonisation especially birch and Spiraea plus Sedum reflexum & Myrica are on the more open rock. The flats above have a similar but continuous Deschampsia veg. [column 1]. The flat on the east side of the line is composed of limestone ballast and may be an old line. It is heavily colonised with a very floriferous grassland and frequent birch. Festuca / Poa are common and Linaria repens & Origanum are notably abundant with Sagina nodosa & Euphrasia [column 2]. The low cutting bank above is mainly covered in dense birch scrub over shade grasses but the lower edge has Bromus pinnatus, forb-rich calcicola grassland with Luula, Potentilla, dropwort & Epipactis atrorubens [column 3]. The west side has a broad flat of cinder by the line which becomes more open & disturbed nearer the station. In general it is a herb-rich coarse Arrhenatherum grassland with Centaurea, Leucanthemum etc. but to the S. the open cinder has a large number of garden escape e.g. Polygonatum, Crocus etc. as well as ruderal and Linaria repens. [column 4]. The low embankment below it has a flora essentially similar to the N. part of the latter but with more woody growth and bramble plus rosebay [column 5]. The broad marsh below is dominated by tall herbs especially Epilobium hirsutum, meadowsweet & Hythrum. Gollus & Phalaris are occasional in the wetter places, with Carex otrubae [column 6]. The waterlogging here is caused by a stream draining Hawes Water into Meyer's Dyke & Leighton Moss. The stream has a good aquatic flora with Glycine and watercress beds, and good populations of Carex pseudocyp. Valeriana oragallis-aquatica & mint spp. [column 7]. * Further South.

PREFERRED MANAGEMENT

Some scrub removal and grazing might help.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

The scrub has been cut in the past but not recently

20.8.79 Jom.

SITE NAME

Silverdale

CDB ref

Internal ref 871

BRYOPHYTES

DATE 20.8.79

RECORDER CMSargent.

Additional Species
CODE NAME

001	Acro cord	0874	viri	185	rufe	269	osmu	363	myur	460	Pleu acum	546	pauc	681	Adel	790	Leio	883	laev
002	Acro cord	0891	arge	187	schr	272	rufu	364	siri	461	subu	547	pusi	683	Anas	791	bant	884	platt
003	Acro cord	0892	lana	188	scua	274	taxi	365	Lept rima	462	Pleu squa	548	recu	684	Anas dmi	794	mucl	885	platt
004	Acro cord	0893	bico	189	subu	275	viri	366	Lept sira	463	Pleu schr	549	trif	686	Anth jula	796	turb	886	thuj
005	Acro cord	0900	lana	190	viri	276	anti	367	Lept sira	464	Pleu schr	551	Sema	688	Anth husn	801	lama	887	quad
006	Acro cord	0901	caes	191	Dier	276/1	anti	368	Lept sira	465	Pleu albi	554	Spha	690	Apha	801/1	azor	888	cili
007	Acro cord	0902	caes	192	Dier	276/2	anti	369	Lept sira	466	annot	555	comp	691	Barb	803	lamo	889	pulk
008	Acro cord	0903	caes	193	Dier	276/3	anti	370	Lept sira	467	crud	556	comp	692	Barb	804	pate	890	Radu
009	Acro cord	0904	caes	194	Dier	276/4	anti	371	Lept sira	468	deli	557	comp	693	Barb	805	ulic	891	comp
010	Acro cord	0905	caes	195	Dier	276/5	anti	372	Lept sira	469	dram	558	comp	694	Barb	806	pear	892	comp
011	Acro cord	0906	caes	196	Dier	276/6	anti	373	Lept sira	470	elion	559	comp	695	Barb	807	pinan	893	comp
012	Acro cord	0907	caes	197	Dier	276/7	anti	374	Lept sira	471	ludw	560	comp	696	Barb	808	rept	894	comp
013	Acro cord	0908	caes	198	Dier	276/8	anti	375	Lept sira	472	nutu	561	comp	697	Barb	809	scia	895	comp
014	Acro cord	0909	caes	199	Dier	276/9	anti	376	Lept sira	473	roth	562	comp	698	Barb	810	stic	896	comp
015	Acro cord	0910	caes	200	Dier	276/10	anti	377	Lept sira	474	roth	563	comp	699	Barb	811	stic	897	comp
016	Acro cord	0911	caes	201	Dier	276/11	anti	378	Lept sira	475	roth	564	comp	700	Bazz	812	stic	898	comp
017	Acro cord	0912	caes	202	Dier	276/12	anti	379	Lept sira	476	roth	565	comp	701	Bazz	813	stic	899	comp
018	Acro cord	0913	caes	203	Dier	276/13	anti	380	Lept sira	477	roth	566	comp	702	Bazz	814	stic	900	comp
019	Acro cord	0914	caes	204	Dier	276/14	anti	381	Lept sira	478	roth	567	comp	703	Bazz	815	stic	901	comp
020	Acro cord	0915	caes	205	Dier	276/15	anti	382	Lept sira	479	roth	568	comp	704	Bazz	816	stic	902	comp
021	Acro cord	0916	caes	206	Dier	276/16	anti	383	Lept sira	480	roth	569	comp	705	Bazz	817	stic	903	comp
022	Acro cord	0917	caes	207	Dier	276/17	anti	384	Lept sira	481	roth	570	comp	706	Bazz	818	stic	904	comp
023	Acro cord	0918	caes	208	Dier	276/18	anti	385	Lept sira	482	roth	571	comp	707	Bazz	819	stic	905	comp
024	Acro cord	0919	caes	209	Dier	276/19	anti	386	Lept sira	483	roth	572	comp	708	Bazz	820	stic	906	comp
025	Acro cord	0920	caes	210	Dier	276/20	anti	387	Lept sira	484	roth	573	comp	709	Bazz	821	stic	907	comp
026	Acro cord	0921	caes	211	Dier	276/21	anti	388	Lept sira	485	roth	574	comp	710	Bazz	822	stic	908	comp
027	Acro cord	0922	caes	212	Dier	276/22	anti	389	Lept sira	486	roth	575	comp	711	Bazz	823	stic	909	comp
028	Acro cord	0923	caes	213	Dier	276/23	anti	390	Lept sira	487	roth	576	comp	712	Bazz	824	stic	910	comp
029	Acro cord	0924	caes	214	Dier	276/24	anti	391	Lept sira	488	roth	577	comp	713	Bazz	825	stic	911	comp
030	Acro cord	0925	caes	215	Dier	276/25	anti	392	Lept sira	489	roth	578	comp	714	Bazz	826	stic	912	comp
031	Acro cord	0926	caes	216	Dier	276/26	anti	393	Lept sira	490	roth	579	comp	715	Bazz	827	stic	913	comp
032	Acro cord	0927	caes	217	Dier	276/27	anti	394	Lept sira	491	roth	580	comp	716	Bazz	828	stic	914	comp
033	Acro cord	0928	caes	218	Dier	276/28	anti	395	Lept sira	492	roth	581	comp	717	Bazz	829	stic	915	comp
034	Acro cord	0929	caes	219	Dier	276/29	anti	396	Lept sira	493	roth	582	comp	718	Bazz	830	stic	916	comp
035	Acro cord	0930	caes	220	Dier	276/30	anti	397	Lept sira	494	roth	583	comp	719	Bazz	831	stic	917	comp
036	Acro cord	0931	caes	221	Dier	276/31	anti	398	Lept sira	495	roth	584	comp	720	Bazz	832	stic	918	comp
037	Acro cord	0932	caes	222	Dier	276/32	anti	399	Lept sira	496	roth	585	comp	721	Bazz	833	stic	919	comp
038	Acro cord	0933	caes	223	Dier	276/33	anti	400	Lept sira	497	roth	586	comp	722	Bazz	834	stic	920	comp
039	Acro cord	0934	caes	224	Dier	276/34	anti	401	Lept sira	498	roth	587	comp	723	Bazz	835	stic	921	comp
040	Acro cord	0935	caes	225	Dier	276/35	anti	402	Lept sira	499	roth	588	comp	724	Bazz	836	stic	922	comp
041	Acro cord	0936	caes	226	Dier	276/36	anti	403	Lept sira	500	roth	589	comp	725	Bazz	837	stic	923	comp
042	Acro cord	0937	caes	227	Dier	276/37	anti	404	Lept sira	501	roth	590	comp	726	Bazz	838	stic	924	comp
043	Acro cord	0938	caes	228	Dier	276/38	anti	405	Lept sira	502	roth	591	comp	727	Bazz	839	stic	925	comp
044	Acro cord	0939	caes	229	Dier	276/39	anti	406	Lept sira	503	roth	592	comp	728	Bazz	840	stic	926	comp
045	Acro cord	0940	caes	230	Dier	276/40	anti	407	Lept sira	504	roth	593	comp	729	Bazz	841	stic	927	comp
046	Acro cord	0941	caes	231	Dier	276/41	anti	408	Lept sira	505	roth	594	comp	730	Bazz	842	stic	928	comp
047	Acro cord	0942	caes	232	Dier	276/42	anti	409	Lept sira	506	roth	595	comp	731	Bazz	843	stic	929	comp
048	Acro cord	0943	caes	233	Dier	276/43	anti	410	Lept sira	507	roth	596	comp	732	Bazz	844	stic	930	comp
049	Acro cord	0944	caes	234	Dier	276/44	anti	411	Lept sira	508	roth	597	comp	733	Bazz	845	stic	931	comp
050	Acro cord	0945	caes	235	Dier	276/45	anti	412	Lept sira	509	roth	598	comp	734	Bazz	846	stic	932	comp
051	Acro cord	0946	caes	236	Dier	276/46	anti	413	Lept sira	510	roth	599	comp	735	Bazz	847	stic	933	comp
052	Acro cord	0947	caes	237	Dier	276/47	anti	414	Lept sira	511	roth	600	comp	736	Bazz	848	stic	934	comp
053	Acro cord	0948	caes	238	Dier	276/48	anti	415	Lept sira	512	roth	601	comp	737	Bazz	849	stic	935	comp
054	Acro cord	0949	caes	239	Dier	276/49	anti	416	Lept sira	513	roth	602	comp	738	Bazz	850	stic	936	comp
055	Acro cord	0950	caes	240	Dier	276/50	anti	417	Lept sira	514	roth	603	comp	739	Bazz	851	stic	937	comp
056	Acro cord	0951	caes	241	Dier	276/51	anti	418	Lept sira	515	roth	604	comp	740	Bazz	852	stic	938	comp
057	Acro cord	0952	caes	242	Dier	276/52	anti	419	Lept sira	516	roth	605	comp	741	Bazz	853	stic	939	comp
058	Acro cord	0953	caes	243	Dier	276/53	anti	420	Lept sira	517	roth	606	comp	742	Bazz	854	stic	940	comp
059	Acro cord	0954	caes	244	Dier	276/54	anti	421	Lept sira	518	roth	607	comp	743	Bazz	855	stic	941	comp
060	Acro cord	0955	caes	245	Dier	276/55	anti	422	Lept sira	519	roth	608	comp	744	Bazz	856	stic	942	comp
061	Acro cord	0956	caes	246	Dier	276/56	anti	423	Lept sira	520	roth	609	comp	745	Bazz	857	stic	943	comp
062	Acro cord	0957	caes	247	Dier	276/57	anti	424	Lept sira	521	roth	610	comp	746	Bazz	858	stic	944	comp
063	Acro cord	0958	caes	248	Dier	276/58	anti	425	Lept sira	522	roth	611	comp	747	Bazz	859	stic	945	comp
064	Acro cord	0959	caes	249	Dier	276/59	anti	426	Lept sira	523	roth	612	comp	748	Bazz	860	stic	946	comp
065	Acro cord	0960	caes	250	Dier	276/60	anti	427	Lept sira	524	roth	613	comp	749	Bazz	861	stic	947	comp
066	Acro cord	0961	caes	251	Dier	276/61	anti	428	Lept sira	525	roth	614	comp	750	Bazz	862	stic	948	comp
067	Acro cord	0962	caes	252	Dier	276/62	anti	429	Lept sira	526	roth	615	comp	751	Bazz	863	stic	949	comp
068	Acro cord	0963	caes	253	Dier	276/63	anti	430	Lept sira	527	roth	616	comp	752	Bazz	864	stic	950	comp
069	Acro cord	0964	caes	254	Dier	276/64	anti	431	Lept sira	528	roth	617	comp	753	Bazz	865	stic	951	comp
070	Acro cord	0965	caes	255	Dier	276/65	anti	432	Lept sira	529	roth	618	comp	754	Bazz	866	stic	952	comp
071	Acro cord	0966	caes	256	Dier	276/66	anti	433	Lept sira	530	roth	619	comp	755	Bazz	867	stic	953	comp
072	Acro cord	0967	caes	257	Dier	276/67	anti	434	Lept sira	531	roth	620	comp	756	Bazz	868	stic	954	comp
073	Acro cord	0968	caes	258	Dier	276/68	anti	435	Lept sira	532	roth	621	comp	757	Bazz	869	stic	955	comp
074	Acro cord	0969	caes	259	Dier	276/69	anti	436	Lept sira	533	roth	622	comp	758	Bazz	870	stic	956	comp
075	Acro cord	0970	caes	260	Dier	276/70	anti	437	Lept sira	534	roth	623	comp	759	Bazz	871	stic	957	comp
076	Acro cord	0971	caes	261	Dier	276/71	anti	438	Lept sira	535	roth	624	comp	760	Bazz	872	stic	958	comp
077																			

ANIMAL RECORD	REGN. LMA	DIVN. PRES.	AREA BARRROW	SITE B171
SITE NAME Silwardale	RECORDER A. Marsden	WEATHER Drizzle at first becoming continuous rain. Dull & overcast.		LANDFORM ① 2 3 4 5 6 7 Rock cutting with flats above at AP, and low cutting on E. side toward Str. On W. side embankment down to stream. Cinder flats & old line near station.
M.P. 4	TIPPING Moderate on emb. etc. toward station.	DATE 20.8.79	TIME 1430 → 1600	
COUNTY Lancashire	N.L.U. Rough grassland & cinder ground			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	25	700	Rock cutting in the north has exposed limestone & forb-rich turf above. Further S. stream on W. side with associated marsh. The emb. above it near the line has rough grassland and cinder flats. The E. side has limestone ballast of old line, then a low calcareous grassland cutting bank, followed by open birch scrub. Bramble also occurs. Very varied and with good potential for almost all groups. Provided many habitats present on N. as well as railway types	Birds (small)	3	3	3
1	1	20	700		Birds (large)	2	2	2
1	6	20	700		Mamm. (small)	3	2	2
2	2	15	700		Mamm. (large)	1	1	1
3	0	5	700		Other verts.	1	2	2
4	3	10	700		Lepidoptera	3	.	3
6	5	5	700		Other insects	3	3	3
6	9	5	700	Other inverts.	3	3	3	

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Robin	4000	1	Rabbit (droppings)	1	Pyralid moth	
Chaffinch	5350	1			Tripulid fly	
					Bluff-tailed Bumble-bee	
					Various:	
					Other Diptera.	
contd. over			contd. over		contd. over	
Swallow	3610	1				
Goldfinch	5350	2				
Moorhen	1730	1				
Kestrel	1480	1				
Wren	3980	1				
contd. over			contd. over		contd. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Mesthrop

Map Ref SD43.79. Data bank ref

NCC Region North West

County Cumbria

Internal ref 8172

STATUS

Part of	<u>Adjacent to</u>	NNR	PNNR	INR	<u>SSSI</u>
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County Flora site. State ref -

Local Information site. State source - IRBomer, NCC, DAO.

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	<u>Rare</u>	<u>Very rare</u>	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe Carboniferous Limestone cliffs, grassland & scrub.
) Old quarry workings - buildings & decayed farmac.
Geological) Sea-cliff & rocks.

RAILWAY REGION LMA

DIVISION Preston

AREA Barrow

Address of Area Civil Engrs Office J. Dalton

Telephone number

Barrow-in-Furness Stn.

CUMBRIA

Tel. No. 0229 21145 extn. 3214

Name of railway line Carnforth -> Barrow-in-Furness

Access at Steps up from Mesthrop Rd. at SD430789

Mileage post 8 -> 8 1/4

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

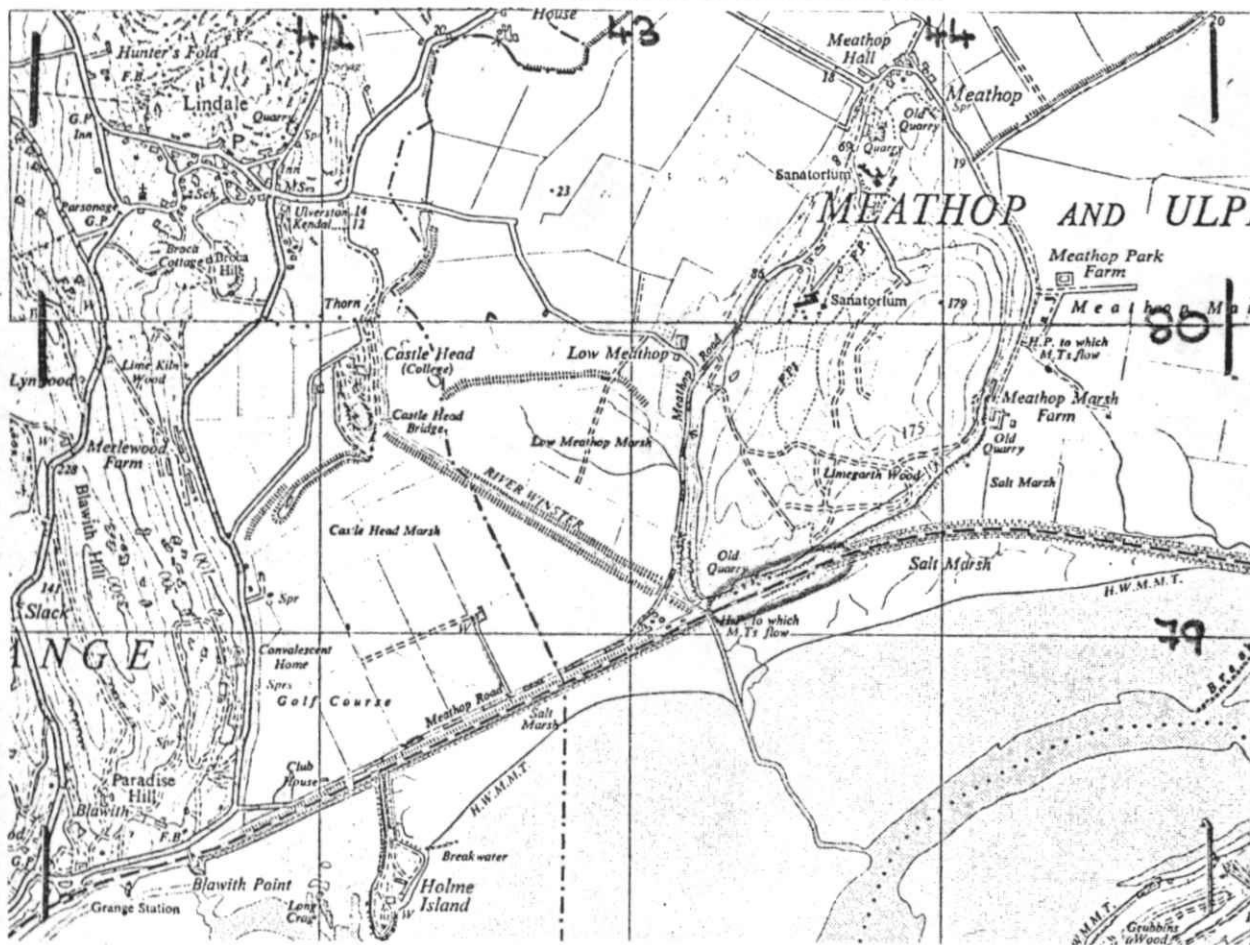
Date	By whom	Assessment/Action
<u>21st August 1979</u>	<u>Dr. C.M. Sargent, A. Marsden & J.O. Mountford.</u>	<u>An excellent site with a good general flora of limestone and a number of rarer spp. including the national rarity <u>Sorbus lanceolensis</u>. It not only duplicates the limestone habitats of the adjacent SSSI but also adds some interesting semi-ruderal types on the disused quarry workings.</u> <u>* Its position makes it ideal to include the BR land within the SSSI. Ideally this would have the cliff on the S. side above the salt marsh within, but in any event it should go as far as the P.G. It may be partly overshadowed by the large number of good limestone sites around Morecambe Bay but it is good enough at least to have an agreement made with BR & probably to schedule.</u> Continue overlea

FILE OPENED BY ITE Monks Wood

DATE 21st Jan. 1980

LOCATION STATUS

<u>Accurate</u>	Approximate
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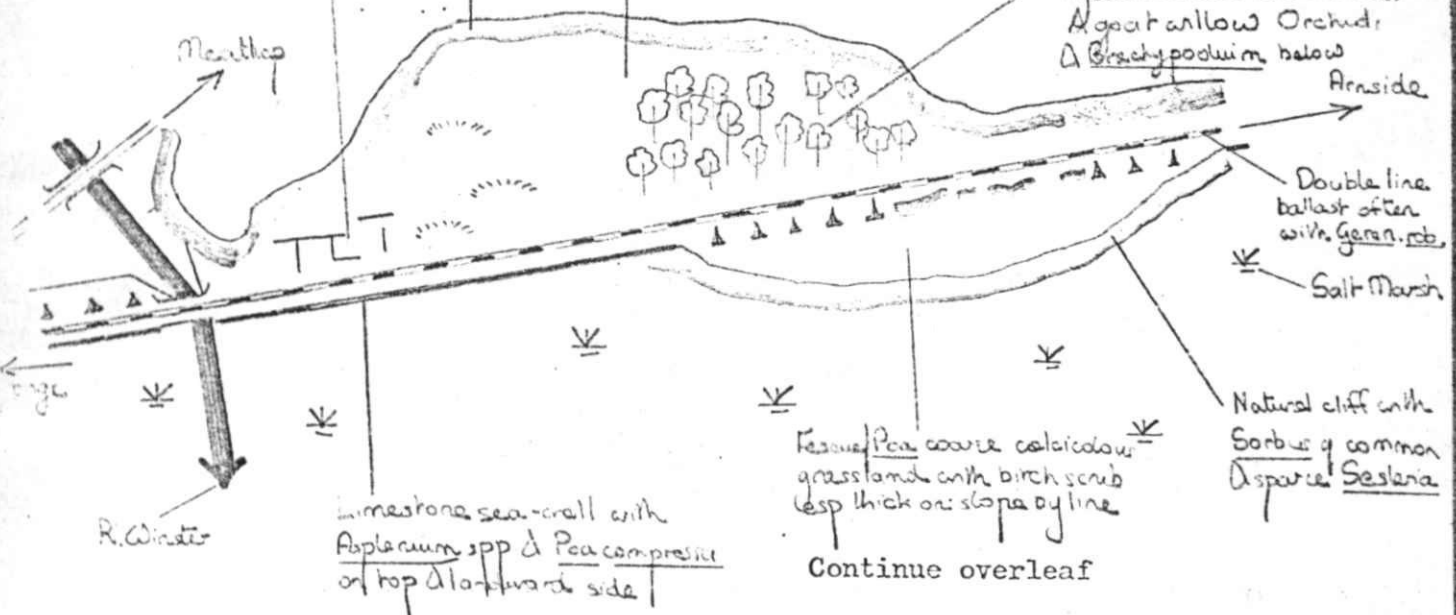
SKETCH MAP

Limestone quarry face with
ledges of calcareous turf
A birch bushes etc

Mainly demolished
buildings of quarry
with Sesleria
caerulea coarse grass

Quarry floor of Fescue/Pea grasslands on
unweir surface or masses of flat slab lime-
stone & broken barmac with low forbs.

Dense scrub of ash, birch &
sycamore over older hazel
A goat willow Orchid
A Gracypodium below



Continue overleaf

Altitude 5' → 110'Local Geology Maritime alluvium & Carboniferous LimestoneNeighbouring landuses Estuarine Salt-marsh, river & deciduous woodland.

DIRECTION FROM ACCESS

N (E) W S E W or BOTH

Dist from * access point	<u>250 →</u> <u>400m</u>	<u>400 →</u> <u>650m</u>	<u>400 →</u> <u>650m</u>	<u>250 →</u> <u>650m</u>	<u>250 →</u> <u>350m</u>	<u>350m →</u> <u>500m</u>	<u>400 →</u> <u>550m</u>	
Side of track °	<u>S</u>	<u>S</u>	<u>S.</u>	<u>N.</u>	<u>N</u>	<u>N</u>	<u>N</u>	
Landform x	<u>Wall</u>	<u>Cliff</u>	<u>Cub./Flat</u>	<u>Quarry</u>	<u>Buildings</u>	<u>Flat</u>	<u>Flat</u>	
Aspect-degrees	<u>—</u>	<u>c.165°</u>	<u>c.345°</u>	<u>c.165°</u>	<u>—</u>	<u>—</u>	<u>—</u>	
Width-metres	<u>1m.</u>	<u>4m.</u>	<u>c.2+10m</u>	<u>→25m</u>	<u>→30m</u>	<u>→50m</u>	<u>→35m</u>	
Disturbance +	<u>Spray</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

32 spp. including about 20 plants of Sorbus lancestrans.
 Large areas of Sesleria grassland with Geranium sanguineum, Epipactis atrorubens and more typically Sn. spp. as Hippocrepis, Carlina etc. Mossy areas with Potentilla norvegica and Sagina nodosa. Scrub edge with Clematis, Inula conyzia, Mycalis and Lithospermum officinale.
 General vegn characteristics and habitat description indicate side of track

The south side of the line is much narrower and for a long way has simply a wall between the line and the salt-marsh. This has a sparse flora of Asplenium spp and Poa compressa on the top and facing the land. Cymbalaria also occurs and Geranium robertianum but this is more typical of the ballast itself [Column 1]. The bank widens to the east and the edge of BR is marked by a low sheer limestone cliff. This is only sparsely covered in vegetation but several trees of Sorbus lancestrans occur with clumps of Sesleria and fescua/Poa grassland [column 2]. The broad flat between the cliff and the line has fescua/Poa and Sesleria grassland — herb sp-rich — with Lotus, Leontodon & Trifolium etc. On the low slope to the line which includes some rock exposures there is birch scrub with fescua/Poa underneath [column 3]. The north side has a high quarry face marking the boundary all along. It has a number of large ledges and several small ones with similar grassland types to elsewhere; 2 or 3 bushes of Whitbeam and a considerable number of young birch. The broader ledges have a lot of Hippocrepis. [column 4]. The broad flat below has a cluster of oaks etc. A rubble remaining from old quarry buildings in the W. These have been almost completely colonized by Sesleria grassland with Euphrasia, Geranium robertianum, Solidago and Epipactis atrorubens plus rather coarse calcicole herbs and a number of birch trees. [column 5]. This type also occurs to the E. on the quarry floor where there are also areas of fescua/Poa with Polygonum, Pimpinella, cowslip, Daucus etc. and ground turf with Carlina, Gentianella and Hippocrepis. Near the quarry base and behind the scrub is an area of broken tarmac and slab limestone with little or no grass and a rather damp moss carpet of Ctenidium, Acrocladium, Byrum spp & Ficoides adiantoides, with Echium, Bellis, Centaurium, Erdium, Sagina nodosa and Potentilla norvegica emergent [Column 6]. Finally the eastern half of the flat near the line is mostly scrub dominated with ash birch and sycamore over alder and hazel, plus goat willow. One or two trees of the Whitbeam grow here & the ground cover is bramble with patches of Brachypodium & orchids [column 7].

PREFERRED MANAGEMENT

The Sesleria grassland should be grazed & the mossy areas weeded of scrub & coarse grasses.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None bar trackside spraying.

Jan. 21.8.79.

SITE NAME

Mastrop

CDB ref

Internal ref B172

BRYOPHYTES

DATE 21.8.79

RECORDER C.M.Sargent

Additional Species
CODE NAME

001	Acu	meti	0874	viri	185	rufe	269	osmu	363	myur	460	Pieu	acum	546	pau	681	Adel	deci	790	Leio	bade	883	lavy
003	Acro	cord	0898	arge	186	schr	272	ruru	364	stri	461	Pieu	subu	547	pusi	683	Anas	erca	791	band	884	platt	
005	Arg		0897	arga	187	squa	273	taxi	365	puri	462	Pieu	squa	548	recu	684	Anh	dona	794	muel	885	platt	
006	Bico		0892	lana	188	subu	275	anti	366	Lept	463	Pieu	schr	549	trif	686	Anh	thui	796	turb	886	thuj	
007	Sarm		0900	bico	190	vari	276	anti	367	Lept	464	Pohl	acum	551	Sema	689	Anh	huan	801	Leje	887	quad	
008	Sira		0901	cues	191	aspe	276f	anti	368	Lept	465	albi		554	Spha	690	Apha	axor	801f	axor	888	Pil	
009	Alol		0904	cana	192	denu	276f	grac	374	Lept	466	annot		555	comp	691	Apha	major	803	lana	889	puc	
010	Alon		0906	capu	193	capu	281	squa	374	Leuc	468	drud		556	comp	692	Barb	atla	804	pate	890	Radu	
011	Alon		0907	dona	194	cirr	281	squa	375	Leuc	470	drud		557	fimb	693	Barb	atla	805	ulic	892	comp	
012	Alon		0907	eryt	194	fasc	281	atla	375	Leuc	470	drud		558	fusc	694	Barb	atla	806	pear	894	lind	
013	Alon		0909	incl	196	crispu	283	hygr	377	Meus	471	elion		559	grig	694	Barb	atla	807	pin	896	Rebo	
014	Alon		0909	incl	197	blit	283	hygr	377	Meus	471	elion		560	grig	694	Barb	atla	807	pin	897	Rebo	
015	Alon		100	incl	197	blit	285	much	380	cinc	474	ludw		562	grig	694	Barb	atla	807	pin	898	Ricc	
016	Alon		105	incl	199	male	286	obtu	381	horm	476	nuta		563	grig	695	Barb	atla	808	seta	899	lata	
017	Alon		107	incl	200	flag	289	alpi	382	horm	476	roth		564	grig	696	Barb	atla	808	seta	900	lata	
018	Alon		110	incl	200	flag	289	alpi	382	horm	476	roth		565	grig	696	Barb	atla	808	seta	900	lata	
019	Alon		111	incl	203	palen	289f	alpi	383	horm	476	roth		566	grig	696	Barb	atla	808	seta	900	lata	
020	Alon		112	incl	204	palen	289f	alpi	383	horm	476	roth		567	grig	696	Barb	atla	808	seta	900	lata	
021	Alon		113	incl	206	scop	297	deci	388	horm	476	roth		568	grig	696	Barb	atla	808	seta	900	lata	
022	Alon		113f	incl	207	scop	297f	deci	388	horm	476	roth		569	grig	696	Barb	atla	808	seta	900	lata	
023	Alon		113f	incl	207f	scop	297f	deci	388	horm	476	roth		570	grig	696	Barb	atla	808	seta	900	lata	
024	Alon		113f	incl	208	spur	297f	deci	388	horm	476	roth		571	grig	696	Barb	atla	808	seta	900	lata	
025	Alon		121	incl	209	stiar	298	dona	392	teili	483	grac		572	grig	696	Barb	atla	808	seta	900	lata	
026	Alon		122	incl	210	stiar	301	dona	392	teili	483	grac		573	grig	696	Barb	atla	808	seta	900	lata	
027	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		574	grig	696	Barb	atla	808	seta	900	lata	
028	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		575	grig	696	Barb	atla	808	seta	900	lata	
029	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		576	grig	696	Barb	atla	808	seta	900	lata	
030	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		577	grig	696	Barb	atla	808	seta	900	lata	
031	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		578	grig	696	Barb	atla	808	seta	900	lata	
032	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		579	grig	696	Barb	atla	808	seta	900	lata	
033	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		580	grig	696	Barb	atla	808	seta	900	lata	
034	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		581	grig	696	Barb	atla	808	seta	900	lata	
035	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		582	grig	696	Barb	atla	808	seta	900	lata	
036	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		583	grig	696	Barb	atla	808	seta	900	lata	
037	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		584	grig	696	Barb	atla	808	seta	900	lata	
038	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		585	grig	696	Barb	atla	808	seta	900	lata	
039	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		586	grig	696	Barb	atla	808	seta	900	lata	
040	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		587	grig	696	Barb	atla	808	seta	900	lata	
041	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		588	grig	696	Barb	atla	808	seta	900	lata	
042	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		589	grig	696	Barb	atla	808	seta	900	lata	
043	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		590	grig	696	Barb	atla	808	seta	900	lata	
044	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		591	grig	696	Barb	atla	808	seta	900	lata	
045	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		592	grig	696	Barb	atla	808	seta	900	lata	
046	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		593	grig	696	Barb	atla	808	seta	900	lata	
047	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		594	grig	696	Barb	atla	808	seta	900	lata	
048	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		595	grig	696	Barb	atla	808	seta	900	lata	
049	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		596	grig	696	Barb	atla	808	seta	900	lata	
050	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		597	grig	696	Barb	atla	808	seta	900	lata	
051	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		598	grig	696	Barb	atla	808	seta	900	lata	
052	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		599	grig	696	Barb	atla	808	seta	900	lata	
053	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		600	grig	696	Barb	atla	808	seta	900	lata	
054	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		601	grig	696	Barb	atla	808	seta	900	lata	
055	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		602	grig	696	Barb	atla	808	seta	900	lata	
056	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		603	grig	696	Barb	atla	808	seta	900	lata	
057	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		604	grig	696	Barb	atla	808	seta	900	lata	
058	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		605	grig	696	Barb	atla	808	seta	900	lata	
059	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		606	grig	696	Barb	atla	808	seta	900	lata	
060	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		607	grig	696	Barb	atla	808	seta	900	lata	
061	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		608	grig	696	Barb	atla	808	seta	900	lata	
062	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		609	grig	696	Barb	atla	808	seta	900	lata	
063	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		610	grig	696	Barb	atla	808	seta	900	lata	
064	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		611	grig	696	Barb	atla	808	seta	900	lata	
065	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		612	grig	696	Barb	atla	808	seta	900	lata	
066	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		613	grig	696	Barb	atla	808	seta	900	lata	
067	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		614	grig	696	Barb	atla	808	seta	900	lata	
068	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		615	grig	696	Barb	atla	808	seta	900	lata	
069	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		616	grig	696	Barb	atla	808	seta	900	lata	
070	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		617	grig	696	Barb	atla	808	seta	900	lata	
071	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		618	grig	696	Barb	atla	808	seta	900	lata	
072	Alon		123	incl	211	stiar	302	dona	392	teili	483	grac		619	grig	696	Barb	atla	808	seta	900	lata	
073	Alon		123	incl</																			

FINAL RECORD	REGN. LMA	DIVN. PRES	AREA BARROW	SITE B172
SITE NAME Meathop	RECORDER A. Marsden	WEATHER Generally overcast & dull with a cool strong breeze		LANDFORM ① 2 3 4 ⑤ ⑥ 7 Quarry face with ledges & uneven flat below. Thin low bank down to line. Some cutting on S. side, generally flat and then cliff down to salt-marsh.
M.P. 8 → 8 1/4	TIPPING Some rubble & broken tarmac on quarry.	Occasional bright sunny periods esp. earlier		
COUNTY Cumbria	N.L.U. Estuary & deciduous woodland	DATE 21.8.79	TIME 1630 → 1810	

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	20	700	The limestone cliffs have much rock but a considerable amount of forb-rich grassland & many bushes. The small one by the line & that facing the estuary and floor of the quarry. The undulating flat of the old quarry floor with its demolished buildings, old tarmac etc. has a variety of bare & low grass & scrub communities. Rather exposed but a useful area of scrub by the estuary plus long plant list for phytophagous spp. Generally of limited value compared to the estuary etc..	Birds (small)	2	2	2
1	1	15	700		Birds (large)	2	2	1
1	6	10	700		Mamm. (small)	2	2	2
4	1	25	700		Mamm. (large)	1	1	1
4	3	1	700		Other verts.	.	2	2
5	0	5	700		Lepidoptera	2	.	2
6	0	5	703		Other insects	3	2	2
6	9	20	703		Other inverts.	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Magpie	3720	1			Large White	
Song Thrush	4310	1			Diptera	
Willow Warbler	4720	1			Adis sp.	
					Lasius sp. & hills	
					Various	
					Diptera	
contd. over			contd. over		contd. over	
Gt. Black-backed Gull	2530	1				
Culvers	2020	1				
Oystercatcher	1820	1				
contd. over			contd. over		contd. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME *Gaiber*

Map Ref *SD77.77/78*. Data bank ref

NCC Region *North East*

County *North Yorkshire*

Internal ref *R229/8173*

STATUS

Part of	<u>Adjacent to</u>	NNR	PNNR	<u>INR</u>	SSSI	<i>R229</i>
---------	--------------------	-----	------	------------	------	-------------

County Flora site. State ref -

Local Information site. State source -

Discovery etc. (Describe) - *Random Survey Site A site examined as limestone out.*

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	<u>Rare</u>	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe *- Damp and dry limestone turf and low scrub. Rock cuttings. Stream*
) *Δ temporary pools. Coarse grassland & raspberry thickets*
Geological)

RAILWAY REGION *LNR* DIVISION *Preston*

AREA *Appalby*

Address of Area Civil Engrs Office *B. Airey*
Telephone number *Appalby Station*
CUMBRIA

Tel. No. 0930 51730

Name of railway line *Settle → Carlisle*

Access at *R229 - lane up to Colt Park Wood - SD773784*
B173 - B6479 bridge over at - SD778778

Mileage post *24 6 1/4 → 3/4*

NOTIFICATION

	With whom	By whom	Date	Ref.
Site notified to BR				
Management agreement (see section 3 for detail)				

VISITS

Date	By whom	Assessment/Action
<i>23rd August 1979</i>	<i>Dn C.M. Sargent, A. Marsden and J.O. Mountford</i>	<i>An excellent stretch of line examined from two points, the intervening bit much poorer. A very long plant list with a good many rare or local spp. some ever uncommon in this well-known botanical site. Neither site is very wide but a good varied sample of the local habitat and vegetation was represented. One of the best sites for flora seen in the project to date and far better than the roadsides immediately adjacent. * Although sites like Colt Park Wood & Ingsborough diminish the value of these BR lands, the richness of the flora is still notable and warrants conservation measures. BR would probably cooperate if the fence of the YNT reserve was moved forward to the edge of the PCW, thus including the best parts of R229, and the Lodge Hall site should have a management agreement made. They may merit scheduling and certainly in the BR context they are outstanding lengths of land.</i>

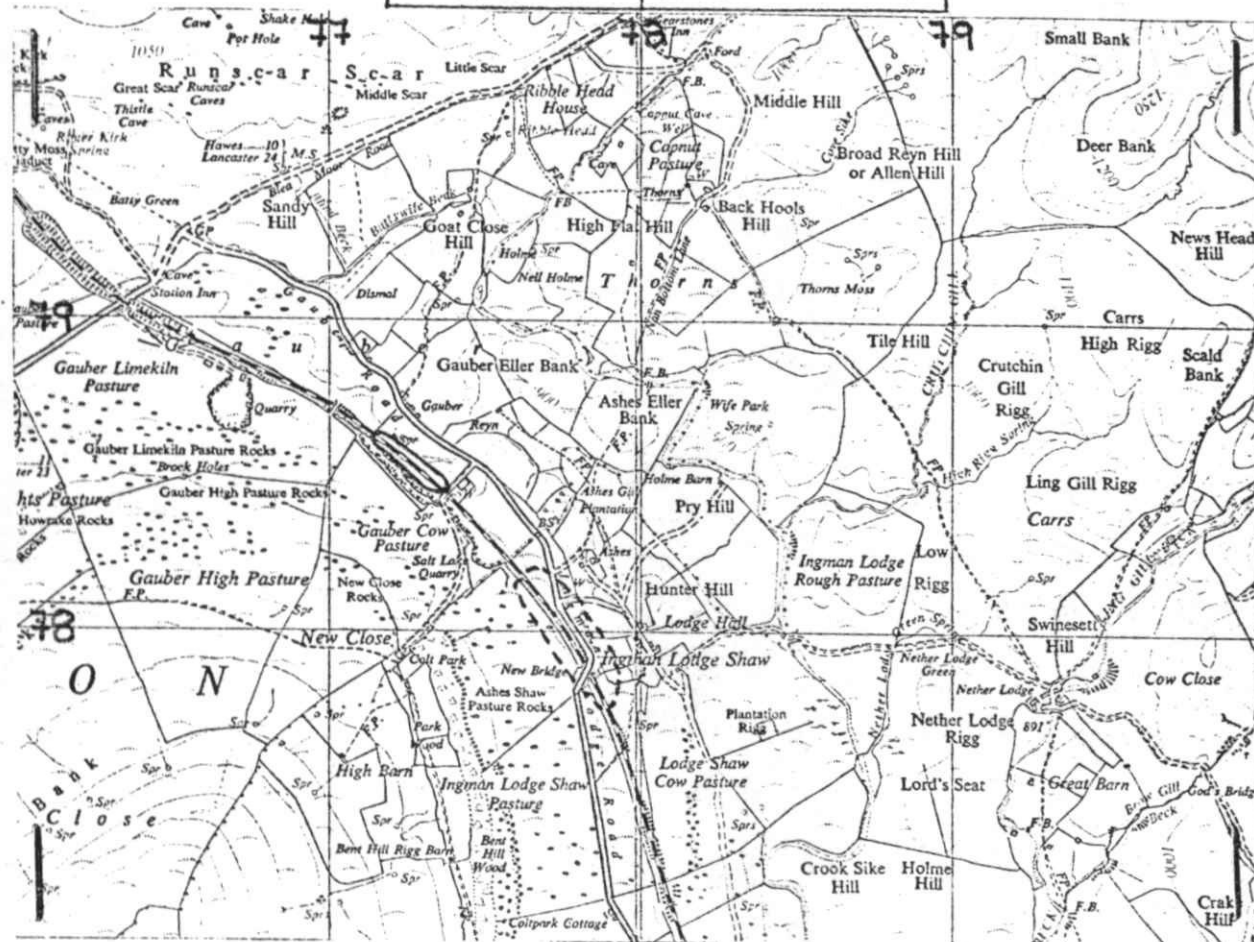
Continue overlea

FILE OPENED BY *ITE Monks Wood*

DATE *24th Jan. 1980*

LOCATION STATUS

Accurate	Approximate
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○ = R229 (Ribbleshead)

⋯ = B173 (Lodge Hall)

SKETCH MAP of R229 (Ribbleshead)

Ribbleshead

Double track



Some ballast dumped
ridge producing
grassland similar
to that on NE slope
but more herb-rich with abundant
clover & Galium verum

Coarse mixed grassland of *Arrhenatherum* / cocksfoot / fescue / Poa
often quite herb-rich with much *Centaurea nigra*, *Leontodon hispidus*,
Plantago lanceolata & harebell

MP24+6 3/4

Green limestone fine rubble with
mosses, colonised by moss, *Carex flacca*,
Deschampsia flexuosa, *Cladonia*, *Loiseleuria*
clausenii, *Gymnadenia* &
Antennaria *monensis* coarse

Similar to latter but with
rich low willow scrub
with *Salix* common
scrub, *Hypericum*, *Urtica*
diocyna, *Elymus*, *Setaria* &
Poa & fescue in patches

Green limestone cutting with
fescue / Poa, *Saxifraga* with good
amount of calcicole forbs, *Alchemilla*
& *Gymnadenis* on rock. Florobore has
rich & lower version of this grassland
inc *Galium sternianum* & *Arabis hirsuta*.



Colt Park
Continue overleaf ✓

Altitude 1015' → 1030' Local Geology Carboniferous Great Scar Limestone of the Alston SeriesNeighbouring landuses Rough upland grassland & old quarry of YNT reserve

DIRECTION FROM ACCESS

(N)	E	(W)	S	E	W	or	BOTH
-----	---	-----	---	---	---	----	------

Dist from * access point	0 → 75m	0 → 75m	75 → 300m	100 → 300m				
Side of track °	NE.	SW.	NE	SW.				
Landform x	S. Cut. etc	S. Cut. / Flat	Cut. / Flat	Flat				
Aspect-degrees	230°	50°	230°	—				
Width-metres	4+2m	4+2m	2+1m	→ 10m				
Disturbance +	—	—	—	M. Ball.				

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Large populations of Primula farinosa, Sesleria, Galium sterni & a smaller one of Pyrola r. rotundifolia. A good general flora of upland limestone with Carex lepidocarpa, Coeloglossum, Ophiodoglossum, Salix phylicifolia, Selaginella, Cystopteris, Gymnadenia & Valeriana dioica. Very rich wet stony turf.

General vegn characteristics and habitat description indicate side of track
At the APs a low limestone rock cutting with narrow flats above. The rock ledges have Fesca / Poa grassland and Sesleria grassland with a forb-rich turf of Galium sterni and Arabis hirsuta, plus Thymus and leguminosae. The rock faces have Cystopteris, Asplenium trichomanes and Linum with a good variety of calcic mosses, notably Ctenidium & Barbula spp.. The narrow flats above have a coarse form of the same grassland type with Centaurea and some low bushes of ash and willow [columns 1 & 2]. The NE. bank becomes a local cutting and narrow flat to a stone wall. This is covered in a coarse generally herb-rich grassland of Arrhenatherum, cocksfoot, Fesca and Poa. The main forb is Centaurea nigra which is abundant but there are also large populations of Lentodon hispidus, Plantago lanceolata and Campanula rotundifolia. Festuca rubra and Poa annua / folia tend to be dissociated with the more rich parts of the grassland. [column 3]. The short piece of slope between the rock cutting & the next area has a somewhat similar vegetation but with a lot of low willow scrub. The best area is the quite broad flat on the SW. side which is continuous with the YNT reserve. It is composed of fine limestone rubble, some exposed slabs and ballast/cinder all compacted to give a fairly level veg. There is a slight ridge of ballast near the line in the north and this has a fairly coarse Fesca grassland with Arrhenatherum / cocksfoot. Centaurea nigra, Tussilago and Galium verum are abundant in the herb-rich sward. Much of the rest is quite damp and at the very wet day there was a lot of standing water. However the vegetation suggests that this is a regular wet. Mosses of various kinds give a lot of cover, often in large wet cushions. Ctenidium, Atracomitrium, Dichodontium, Carotodon, Flagellaria, Eurhynchium scortchii, Trichostomum brachydontium and Fissidens are all common. In the north there is an open sp.-rich turf accompanying the moss of Carex flacca, Primula farinosa, Selaginella and Gymnadenia in the damper places, and Lotus, thyme, Valeriana & Alchemilla where it is drier. Going S. the moss cushion becomes thicker and the orchids more common, with Molinia, Ophiodoglossum, rustles, a few patches of Pyrola and a great deal of Salix phylicifolia in a low (1m.) scrub. The lineside here has much Centaurea & Thymicum and the flat is in the drier parts rich in lichens with Fesca & Euphrasia plus Lotus, Sesleria occurring sparingly on the more elevated ridges of compacted spoil. The whole flat is a mosaic of types [column 4].

PREFERRED MANAGEMENT

Growing and control of willows, probably by cutting.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

Just grazing & ballasting.

from 23.8.79.

Altitude 980' → 1005' Local Geology Carboniferous Great Scar Limestone of the Alston SeriesNeighbouring landuses Rough upland grassland and road.

DIRECTION FROM ACCESS

N	E	W	S	E	W
---	---	---	---	---	---

 or BOTH

Dist from * access point	SE.100→ NW.50m	SE100→ NW.10m	NW.0→ 50m	NW.50→ 250m	NW.20→ 50m	NW.50→ 100m	NW.50 →100m	NW.100 →250m
Side of track °	SW.	NE.	NE	SW.	NE	SW.	NE	NE
Landform x	S.Gw/Flat	S.Gw/Flat	Cut.	Cut.	Pool etc	Stream	Flat	Flat
Aspect-degrees	65°	2+5°	Various	65°	—	±65°	—	—
Width-metres	4+1m.	4+1m	→7m	→4m	→8m	1m.	15m	→20m
Disturbance †	—	—	—	—	Flood.	Flows.	—	—

- * If site is both sides of access point, precede distance by cardinal point
- ° Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- † Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Rare local spp of upland limestone including Asplenium viride, Galium sterneri, Sesleria and Cochlearia officinalis ssp. alpina. Also Sagina nodosa and Rumex longifolius with commoner plants such as Cirsium heterophyllum, Cystopteris, Geranium sylvaticum, Gymnadenis, Mycalis & Chaerophyllum. The rock cutting and pool are of special value.

General vegn characteristics and habitat description indicate side of track

The rock cutting at the AP Sesleria caerulea & Fescue / Poa grassland on the ledges with Helianthemum, Thymus, Galium sterneri, Helictotrichon, Scabiosa, harebell & Centaurea. The bare rock is rich in Cryptogams with a lot of Cystopteris & Asplenium spp including a little A. viride. Mosses are also significant especially Cladonia, Agaricaria, Baibula spp and Orthotrichum rufescens. The flats above are generally similar to the ledges but cover [column 1 & 2]. However to the north of the B.R. wall follows the road the grassland on the gentle slope below becomes coarser silt and rich in Helictotrichon, Fescue, Gymnadenia, Aldemilla & Geranium sylvaticum with a few ash bushes. In occasional areas where the soil is shallower Geranium lucidum & Euphrasia occur. [column 3]. This bank surrounds a pool which is probably permanent but at the time of the visit was greatly scoured. The pool had Juncus & a few sallow bushes by it but the flat stony marsh & limestone slabs that had now been flooded possessed an open mossy turf of Sagina nodosa & Carex spp. plus Rhinanthus and Saxifraga [column 5]. This pool is possibly fed by water draining from a fast flowing stream on the SW bank. This narrow ruel has a few rushes by it and a good population of Cochlearia officinalis ssp. alpina [column 6]. The SW bank generally from here on is coarser and poor with a mixed grassland of Ambrosia & Deschampsia coarctata with good populations of rosebay and Cirsium arvense, with only a few of the taller calcifiles surviving. Where the rock cutting on this side ends there is a small patch of ash trees. The cutting slope becomes gradually lower & the vegetation less interesting [column 4]. Along the north side of the pool and marsh are a number of tall sycamore trees with associated ash, hawthorn & bramble. The grassland under them up to the access lane is very coarse Ambrosia & Deschampsia with buttercup and large patches of Geranium. [column 7]. Finally north-west of the access track is a broad flat which may once have been some kind of goods yard. The soil is rather clinky and the vegetation very coarse and non-basidic. The main cover is Ambrosia, very herb-rich with large areas of rosebay and Geranium sylvaticum, plus a raspberry thicket in the north corner and patches of bramble elsewhere. There is a good population of Cirsium heterophyllum and scattered plants of Rumex longifolius and Gymnadenis conopsea. There are a number of young planted Fescue [column 8].

PREFERRED MANAGEMENT

Some cutting of coarser grass & greening of limestone turf.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None.

Jom 23.8.79.

SITE NAME Gauber

CDB ref

Internal ref R229 | B17

BRYOPHYTES

DATE 23rd August 1979

RECORDER C.M. Sargent

Additional Species
CODE NAME

001	Acacu cord	0874	myur	osmu	rufe	viri	argi	0874	laey	790	Leio	baede	883	Prei	801/2	ozor	888	Pull	801/2	ama	889	Radu	comp	890	comp	891	comp	892	comp	893	comp	894	comp	895	comp	896	Rebo	hemi	897	Rioce	locu	898	locu	899	locu	900	palin	901	palin	902	palin	903	palin	904	palin	905	palin	906	palin	907	palin	908	palin	909	palin	910	palin	911	palin	912	palin	913	palin	914	palin	915	palin	916	palin	917	palin	918	palin	919	palin	920	palin	921	palin	922	palin	923	palin	924	palin	925	palin	926	palin	927	palin	928	palin	929	palin	930	palin	931	palin	932	palin	933	palin	934	palin	935	palin	936	palin	937	palin	938	palin	939	palin	940	palin	941	palin	942	palin	943	palin	944	palin	945	palin	946	palin	947	palin	948	palin	949	palin	950	palin	951	palin	952	palin	953	palin	954	palin	955	palin	956	palin	957	palin	958	palin	959	palin	960	palin	961	palin	962	palin	963	palin	964	palin	965	palin	966	palin	967	palin	968	palin	969	palin	970	palin	971	palin	972	palin	973	palin	974	palin	975	palin	976	palin	977	palin	978	palin	979	palin	980	palin	981	palin	982	palin	983	palin	984	palin	985	palin	986	palin	987	palin	988	palin	989	palin	990	palin	991	palin	992	palin	993	palin	994	palin	995	palin	996	palin	997	palin	998	palin	999	palin	1000	palin
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ANIMAL RECORD	REGN. LMA	DIVN. PRES.	AREA APPLEBY	SITE R229/ B173
SITE NAME Gauber	RECORDER A. Marsden	WEATHER Overcast but with brighter periods later. R229 (a.m.) done in continuous rain. By p.m. (B173) this had diminished to isolated periods of drizzle with a slight breeze.		LANDFORM ① 2 3 4 ⑤ 6 7 Pibbleshead has a low rock cutting giving way north to a minor cut on the E. and a quite broad flat on the W. Lodge Hall has a low rock cutting at the AP with a broad flat on the E. side with a bank around it and a pool in the middle near the AP.
M.P. 246 1/4 → 3/4	TIPPING Locally moderate limestone ballast binder on flats	DATE 23.8.79	TIME 1040 → 1220 1500 → 1615	
COUNTY N.Yorks.	N.L.U. Upland rough grassland A quarry & road.			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	5	700	The bulk of the site is grassland, some of which is typical of limestone areas, some of upland and some esp. by the gate at B173 is swards with raspberry, bramble & low scrub. There are several small rock exposures and these show the sp. rich calcicolous type of flora in the grassland. There are areas of low silted scrub as well as tall sycamore trees on these sites. The whole site was overlogged at the time of the visit but there is one permanent stream at B173 and a pool opposite (then greatly expanded) the veg. in places was decidedly marshy around the pool and in bits on the flats. Prob. a very rich insect site but rather small and exposed to provide much habitat for larger animals.	Birds (small)	2	2	2
1	1	30	709		Birds (large)	2	1	1
1	5	5	708		Mamm. (small)	9	2	2
1	6	20	700		Mamm. (large)	1	1	1
2	2	10	700		Other verts.	2	2	2
3	1	—	700		Lepidoptera	2	.	2
3	4	5	700		Other insects	3	3	3
4	3	20	700		Other inverts.	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Linnat	5370	1	Common Frog Rabbit signs (droppings)	1 3?	Common Blue Green-veined White Pyralid moth Linnat/Antars sp. Tipulid fly Bombus sp. Various: Other Diptera Orthoptera	
contd. over			contd. over		contd. over	
Starling Wren Carrier Crow Meadow Pipit [Starling Rock] → SW Chaffinch	5180 3980 3681 4930 5550	5 1 2 1 1				
contd. over			contd. over		contd. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME **Shap** Map Ref **NY57.10** Data bank ref
NCC Region **North West** County **Cumbria** Internal ref **B174**

STATUS

Part of	Adjacent to	NNR	PNNR	LNR	SSSI
---------	-------------	-----	------	-----	------

County Flora site. State ref -
 Local Information site. State source -
 Discovery etc. (Describe) - **Visited as a cutting at high altitude on interesting geology**

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare
Animals	Insects	Reptiles	Birds	Mammals

Habitat) describe - **Collins moor; sallow scrub; moderately acid grassland. Rock cutting, dripping cliffs, tunnels etc. Base-rich grassland.**
Geological) **Exposures of Carboniferous limestone Series; mostly red conglomerate basement beds, but with some shales & quartz conglomerate. Some Shap limestone. Overlain by Boulder Clay**

RAILWAY REGION **LMA** DIVISION **Preston** AREA **Tabay**

Address of Area Civil Engrs Office **T. Lambeth**
Telephone number **Tabay Stn.**
CUMBRIA
Tel. No. 058 74 237

Name of railway line **Preston -> Carlisle**

Access at **Lane bridge under to Shap Walls HH. at NY582098** Mileage post **36 3/4 -> 37 1/2**

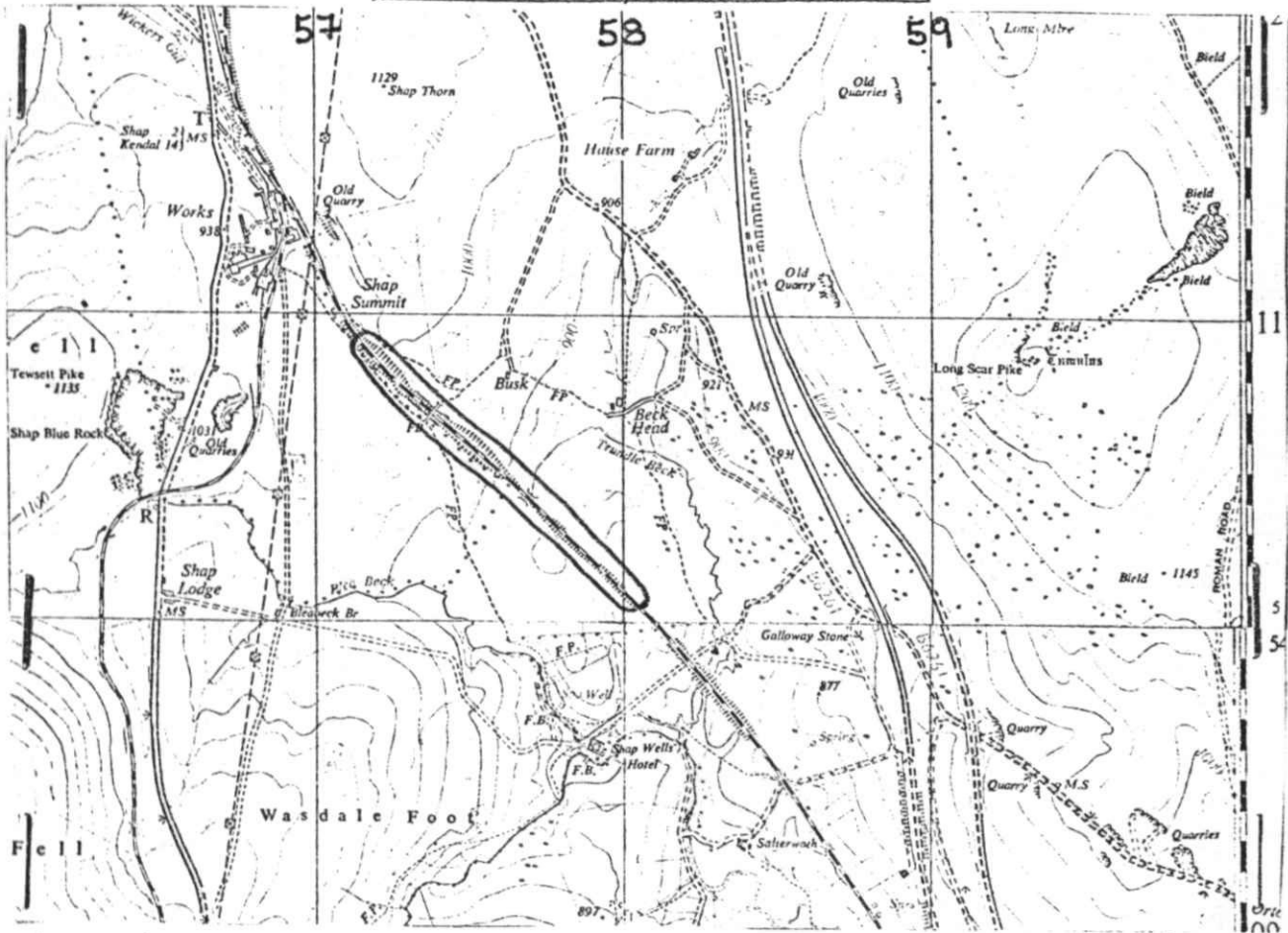
<u>NOTIFICATION</u>	With whom	By whom	Date	Ref.
Site notified to BR				
Management agreement (see section 3 for detail)				

<u>VISITS</u>	Date	By whom	Assessment/Action
	24th August 1979	Dr. C.M. Sargent, A. Marsden and J.O. Mountford.	Large and varied with a good sp-list and a number of local spp. The surrounding land is rather average heather moor and rough upland pasture some of which has been ploughed and drained prior to plantation. The rail-land thus provides new habitat and by cutting through to the Shap limestone produces an enriched soil with a number of plants which could otherwise be missing. Scrub cover & the deep cutting make this a valuable refuge for animals. Generally a good piece of line which adds to the local fauna. * Recommend the site be noted and notified to BR so that some co-operation in management might follow. Not an outstanding site but a good example of the way in which by cutting through the drift or making artificial deep valleys BR can diversify an area considerably.

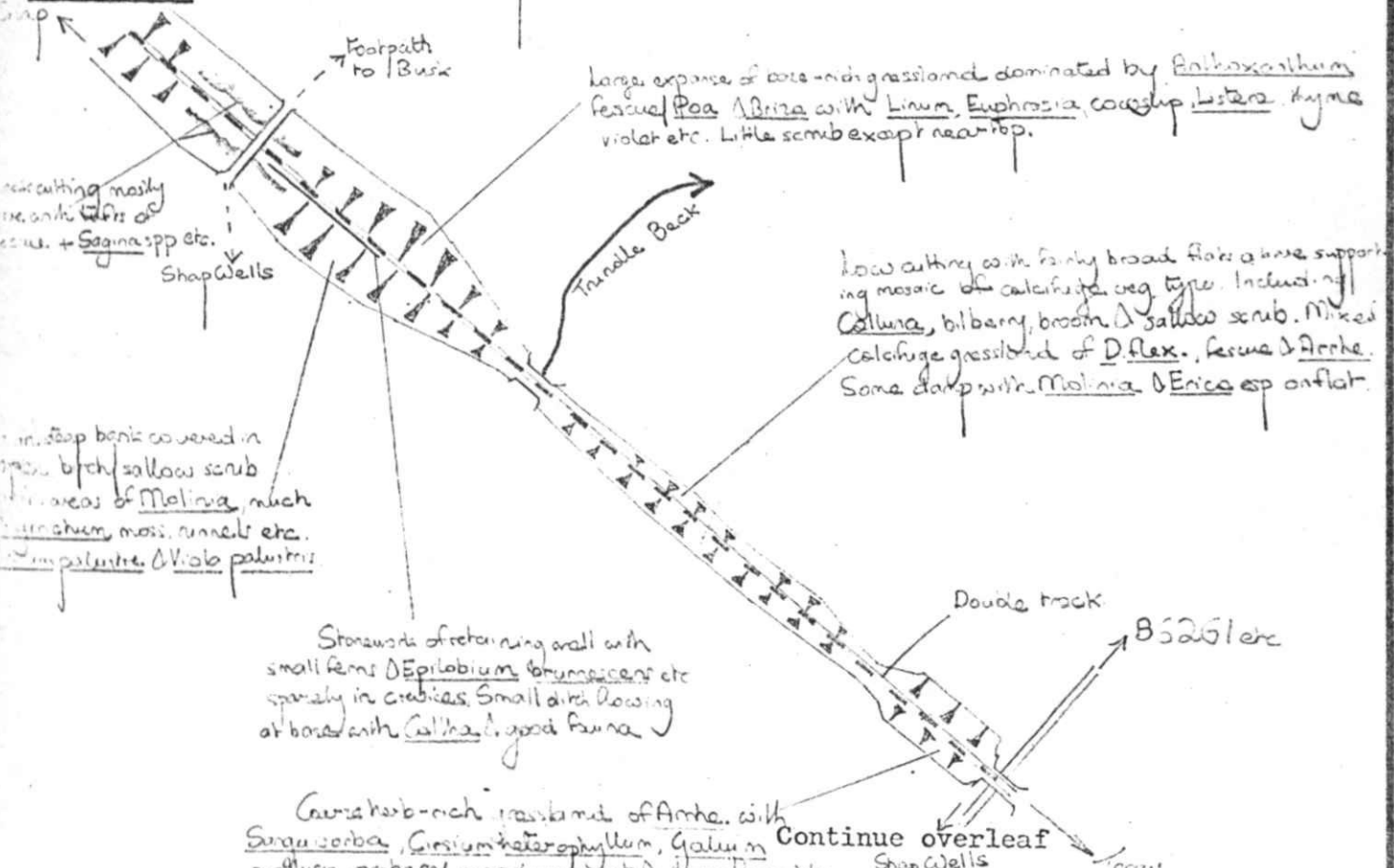
FILE OPENED BY **ITE Monks Wood** DATE **25th Jan. 1980**

LOCATION STATUS

Accurate	Approximate
----------	-------------



SKETCH MAP



Altitude 830' → 975' Local Geology Sea Section 1 (Boulder Clay near Carb. Lina. Series)Neighbouring landuses Moorland & rough upland pasture.

DIRECTION FROM ACCESS

(N)	E	(W)	S	E	W	or	BOTH
-----	---	-----	---	---	---	----	------

Dist from * access point	0 → 150m → 800m)	250 → 750m	250 → 750m	850 → 1000m	850 → 1500m	1000 → 1200m	1100 → 1250m	
Side of track °	both	SW	NE	NE	SW	SW	both	
Landform x	Embs..	Cut./Flat	Cut./Flat	Cut.	Cut.	Wall/Ditch	S. Cut	
Aspect-degrees	220°/40°	40°	220°	220°	40°	40°	40°/220°	
Width-metres	→ 2x15m	8+2m	8+4m	→ 35m	→ 40m	3+1m.	→ 30mx2	
Disturbance +	M. Ball	—	Fire.	Grass.	—	—	—	

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Presence of increasing alder: Epilobium brunescens. Good range of calcifuge veg. with Festuca vivipara, Viola palustris, Rumex longifolius, Juncus, among less common spp.. Base of grassland with Euphrasia g. archia, cowslip, Briza & Milium, and rocks with Sagina nodosa. Good population of hay-meadow forbs. Scrub at high altitude. 122 spp of vascular plant.

General vegn characteristics and habitat description indicate side of track

The embankment at the AP, the short one at the source of the Tumble Beck & other areas have a vegetation in lik or overgrown hay-meadow with coarse Arrhenatherum, Deschampsia coarctata & Dactyloctenium. A large population of meadowweet, Alchemilla, Cirsium heterophyllum, Galium mollugo, Sanguisorba & the large Gronium spp.. Patches of raspberry, bramble thickets and scattered thorn scrub are all frequent [column 1]. The long low cutting to the Tumble Beck is markedly calcifuge and has a mosaic of upland acid vegetation, both damp and dry. The SW side is rather more scrubby with Salix & coarse grassland of Deschampsia flexuosa, Festuca & Arrhenatherum as well as bilberry. The NE side has large areas of ling and broom as well as Molinia/Erica tetralix esp. on the flat above with Carex ovalis and Pedicularis & tormentil. Birch also occurs and Festuca vivipara was found on one of the very few rock outcrops here. The two sides are however generally similar [columns 2 & 3]. The NE side, into the major cutting probably has some Shap limestone immediately under part since the broad grass slope is very different with Anthoxanthum/Festuca | Borcia & Carex flacca in a forb-rich calcifuge grassland with cowslip, eyebright, twayblade, Hymenophyllum, Poa spp., Linum & Viola riviniana. There is scattered scrub of birch mainly above [column 4]. This slope, with the NW & particularly the SW, slope have a calcifuge open scrub of birch with some willow. The drainage is poor and Molinia & Deschampsia spp are common on the long steep slope. Rumex & trifolium the bark and bryophytes are significant in the cover throughout especially Philonotis & Polytrichum. Cirsium palustre and Rumex longifolius also occur & Viola palustris is found in the wettest parts. [column 5]. The lower parts of this slope under the footbridge are shored up with a stone wall on which occur a number of acrocarpous mosses, small ferns and a few plants of Epilobium brunescens in a very sparse vegetation with Festuca etc. Below it and draining the tunnel is a flowing culverted ditch which has Calluna and Callitriche and a good invertebrate fauna [column 6]. The area near the footbridge has large rock exposures. There are generally bare of vegetation except on occasional ledges or gyps where the flora is similar to that of col. 5. However Sagina nodosa occurs on damper small ledges with Festuca [column 7].

PREFERRED MANAGEMENT

The scrub could be cut back in some places where it encroaches better grassland but generally it should be encouraged. The grassland could be grazed, or rabbits encouraged.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

Burning probably accidental has occurred recently on the E. side of the smaller cutting & ballasting occurred some time ago on the emb.

John 24.8.79.

SITE NAME

Shap

CDB ref

Internal ref R174

SIDE OF TRACK

N	E	W	S	E	W
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DATE 24.8.79 RECORDER CMSargent/JOMountford

GRASSES	Additional species	CODE	NAME
841 Fraxi	gr	1142	<i>Ambiodopsis thaliona</i>
952 Hedw	med	397	<i>Carex ovalis</i>
26 Agropy	pr	699	<i>Epilobium brunneum</i>
33 946 Humul	pr	784	<i>Elphesia a. arctica</i>
1023 Ilex	off	826	<i>Festuca vivipara</i>
1080 Junip	off	1687	<i>Rhododendron pont.</i>
1144 Lgus	off	1729	<i>Rubus idaeus</i>
1188 Lonic	off	1736	<i>Rumex acetosella s.s.</i>
1230 Malus	off	1786	<i>Salix cinerea olifolia</i>
1484 Pinus	off	1828	<i>Hieracium sp.</i>
1555 Popul	off	2215	<i>Viola palustris</i>
1611 Prunu	off		
1614 424 Antho	off		
1616 449 ARRIE	off		
1617 220 Arena	off		
1635 249 Brach	off		
1638 250 256 Briza	off		
1640 283 288 269 113	off		
1675 Rhann	off		
1694 Ribes	off		
1697 1705 Rous	off		
1707 272 283 283 283 283	off		
1712 403 DACTY	off		
1719 425 Deach	off		
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ANIMAL RECORD	REGN. LMA	DIVN. PRES.	AREA TEBAY	SITE B174
SITE NAME Shap	RECORDER A. Marsden	WEATHER Overcast and dull with a slight breeze. Moderate temperature		LANDFORM 1 (2)(3)(4)(5) 6 7 Medium to large emb. at DN. from AP. Then a long low to medium cutting. A short interval of emb. where the Trundle Beck rises. Finally a long deep cutting with rock exposures in the N. D. a flowing ditch below
N.P. 36 3/4 → 37 1/2	TIPPING Generally none	DATE 24.8.79	TIME 1615 → 1740	
COUNTY Cumbria	N.L.U. Rough upland pasture & heather poor.			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	30	700	Collins heath in cutting with area rather water-logged with <u>Molinia</u> & <u>Erica</u> . Sallow scrub & tall open birch scrub. Moderately acid grassland with <u>Arrhenatherum</u> & <u>Festuca/Deschampsia</u> <u>luxurans</u> . Some open broom scrub. Bare rich grassland on deep paths of Nn. cutting. Rock exposures both damp & dry. Runnels & wet mass cushions on steep cutting slopes with ditch below. This good list of habitats with a long plant list occur in open & rather monotonous moorland. The BA land provides shelter & much food unrepresented locally.	Birds (small)	3	3	3
1	1	5	700		Birds (large)	2	3	2
1	4	15	700		Mamm. (small)	3	3	3
1	5	10	700		Mamm. (large)	2	2	2
1	6	20	703		Other verte.	1	3	2
2	1	—	700		Lepidoptera	2	.	2
3	1	—	703		Other insects	3	3	3
3	2	—	703		Other inverts.	3	3	3
4	3	20	700					
6	8	—	703					

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Blue Tit	3800	1	Rabbit (inc. many burrows)	5	Pyrallid moths	
Chaffinch	5550	1	Adder	2	Buff-tailed Bumble-bee	
Red Grouse	1520	1			Tipulid fly	
					<u>Arcton/Lichas</u> sp.	
					<u>Gerris</u> sp.	
					<u>Corixa</u> sp.	
					Various:	
					Other Diptera	
					Orthoptera	
					Ephemeroptera	
					Hirudinea.	

contd. over

contd. over

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RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Dalton-in-Furness

Map Ref SD240747 Data bank ref

NCC Region North West

County Cumbria

Internal ref B175

STATUS

Part of	Adjacent to	NMR	PNR	INR	SSSI	
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County Flora site. State ref -

Local Information site. State source - IR Bonner - D.A.O., N.C.C.

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - limestone rock cutting with herb-Asp-rich calcareous grass-
) land. Varied scrub types. Walls & track ground plus coarse
 Geological) grassland.

RAILWAY REGION LMR DIVISION Preston

AREA Barrow

Address of Area Civil Engrs Office J. Dalton

Telephone number

Barrow-in-Furness Str.

CUMBRIA

Tel. No. 0229 21445 extn. 3244

Name of railway line Carnforth → Barrow line

Access at Minor road bridge over at SD 238744

Mileage post 23

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

Date	By whom	Assessment/Action
25 th August 1979	Dr. C.M. Sargent, A. Marsden & J.O. Mountford	A large and useful expanse of semi-natural limestone exposure to the west of the main areas of this type. Thus though compared to Munkton & Silverdale it is poor, the value in the local context is probably greater. There is a good general plant list with a balance of scrub and grassland which makes it a potentially rich animal site also. The broad flat by the tunnel mouth is being developed & may well become a lorry park. * An interesting site which should be noted. Further surveys in Furness limestone cuttings should follow and some general agreement with BR to allow more sympathetic measurement & management. Some information on the future of the lorry park is needed.

Continue overleaf

FILE OPENED BY ITE Marks Wood

DATE 25th Jan. 1980

Altitude 180' → 260' Local Geology Carboniferous Limestone

Neighbouring landuses Road, improved grassland & paddock / chicken waste.

DIRECTION FROM ACCESS

(N)	(E)	(W)	(S)	(E)	(W)	or	(BOTH)
-----	-----	-----	-----	-----	-----	----	--------

Dist from * access point	0 →	0 →	0 →	0 →	100 →	300 →	300 →	300 →
	100m	200m	300m	300m	400m	400m	400m	400m
Side of track °	both	SE	SE	NW	SE	SE	NW	NW
Landform x	Walls	Cut	Flat	Cut	S.Cub.	Flat	Flat	Cut
Aspect-degrees	135° 315°	315°	—	135°	320°	—	—	Various
Width-metres	2 x 2m	→ 20m	→ 15m	→ 30m	→ 15m	→ 6m	→ 90m	→ 15m
Disturbance +	—	—	—	—	—	Grass	Works	—

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST

108 spp. with good calcicolous grassland types etc. Some local spp.: *Trifolium convexum*, *Ceterach* etc. & a number of less common spp. in NW England: cowslip, *Hypericum maculatum*, *Gymnadenia*, *Geranium diffusum* & *Galium*!!

General vegn characteristics and habitat description indicate side of track

The line at the AP has remaining walls by the PCW with a sparse vegetation of fine grasses, crops of bramble & small ferns, including a small population of *Ceterach* esp. on the NW side slightly S of the AP [column 1]. The SE slope near the AP has a coarse herb-rich calcicolous grassland of *Arrhenatherum flexuosum* and *Brachypodium* with a lot of low bramble and hawthorn scattered through. *Centaurea* spp. are common with other tall herbs such as *Leucanthemum*, *Daucus*, *Alchemilla* and *Agrostis* as well as *Oxalis*. This type occurs also sparingly on the NW side, mainly on the lower slope near the AP [column 2]. The flat above is generally coarser and less markedly calcicolous with couch & bramble common with *Dracopis*, *Hypericum* & hogweed etc. It can be very broad especially where the bridleway bridge to Standing Tam goes across [column 3]. The slope opposite is very much more scrubby with areas of dense blackthorn and ash/hawthorn over top, *Phyllitis* and bramble. The scrub may also be quite open and more bramble with a grassland akin to column 2 present [column 4]. The SE side (and to a much lesser extent the NW side) has areas of sheer limestone rock cutting with a rather impoverished flora. *Trisetum* and *Brachypodium* are frequent on ledges with *Centaurea* etc. The bare rock has *Asplenium* spp. and scattered bushes are emergent from cracks and crevices [column 5]. The rock face on the NW side is similar but more shaded and richer in ferns. The flat on the SE side above the rocks is grazed by horses etc. from NW to produce a fine fescue/*Poa*/*Carex*/*Beriza* & *Trisetum* turf which is forb-Asp-rich with cowslip, *Euphrasia*, orchids, *Gentianella* & *Rhinanthus*. [column 6]. The broad flat between the tunnel mouth and the A590 has been denuded and levelled in preparation for some new use [column 7]. The slope surrounding it on three sides with a gap by the line and for access by a gate from the road has a mosaic of coarse vegetation of bramble, hawthorn, tall herb-rich grassland with thistle & borage etc.. There are areas of soft-shippage where a richer flora occurs. [column 8].

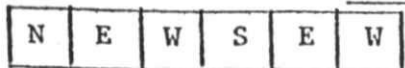
PREFERRED MANAGEMENT

Some bramble scrub removal followed by mowing / grazing of grassland.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

None.

form 25.8.79.



Main data table with columns: Additional species, CODE, NAME, and various alphanumeric codes. Includes handwritten entries like 'Euphrosia nemerosa', 'Rylwidaew', 'Hircacium sp.', and 'Hircacium sp. [Sabauda]'.

Bottom section of the table with columns: CODE, NAME, and alphanumeric codes. Includes handwritten entries like '26 Agrop', '27 Agros', '28 Agros', '29 Agros', '30 Agros', '31 Agros', '32 Agros', '33 Agros', '34 Agros', '35 Agros', '36 Agros', '37 Agros', '38 Agros', '39 Agros', '40 Agros', '41 Agros', '42 Agros', '43 Agros', '44 Agros', '45 Agros', '46 Agros', '47 Agros', '48 Agros', '49 Agros', '50 Agros', '51 Agros', '52 Agros', '53 Agros', '54 Agros', '55 Agros', '56 Agros', '57 Agros', '58 Agros', '59 Agros', '60 Agros', '61 Agros', '62 Agros', '63 Agros', '64 Agros', '65 Agros', '66 Agros', '67 Agros', '68 Agros', '69 Agros', '70 Agros', '71 Agros', '72 Agros', '73 Agros', '74 Agros', '75 Agros', '76 Agros', '77 Agros', '78 Agros', '79 Agros', '80 Agros', '81 Agros', '82 Agros', '83 Agros', '84 Agros', '85 Agros', '86 Agros', '87 Agros', '88 Agros', '89 Agros', '90 Agros', '91 Agros', '92 Agros', '93 Agros', '94 Agros', '95 Agros', '96 Agros', '97 Agros', '98 Agros', '99 Agros', '100 Agros'.

BRYOPHYTES

DATE 25th August 1979

RECORDER Dr. C.M. Sargent

Additional Species
CODE NAME

001	Acro cord	0874	virg	185	ruf	269	osmu	363	myur	460	Pleu acum	546	pauc	681	Adel	790	Leio	883	laev
003	Acro cord	089	arg	186	schr	272	rufu	364	stri	461	subu	547	pust	683	Anas	791	bant	884	laev
004	Acro cord	089/1	arg	187	squa	273	taxi	365	Lept	462	Pleu squa	548	recu	684	Anas doni	794	musc	885	plat
005	Acro cord	089/2	arg	188	subu	274	taxi	366	Lept rupa	463	Pleu schr	549	trif	685	Anth julia	796	turc	886	plat
006	Acro cord	090	bico	189	vari	275	anti	367	Lept smit	464	Pohl acum	551	Sema	686	Anth lusan	797	Leje	887	quad
007	Acro cord	091	caes	190	aspe	276/1	anti	368	Lept flex	465	albi	552	nova	689	laev	801	lamia	888	Pill
008	Acro cord	093	capa	191	denu	276/2	grac	369	Lept poly	466	annot	553	Spha	690	punc	801/1	azor	889	Pill
009	Acro cord	094	capa	192	unci	277	squa	370	Leuk glau	467	crud	554	comp	691	Apha	801/2	lania	890	Radu aquil
010	Acro cord	096	doni	193	atit	278	Funa	371	Leuc sciu	468	deli	555	comp	692	Barb	803	pate	891	Radu aquil
011	Acro cord	097	erol	194	crispa	281	atit	372	Leuc sciu	469	drum	556	comp	693	Barb	804	ulic	892	comp
012	Acro cord	099	incl	195	ulig	282	hygr	373	Meca ulf	470	elion	557	fimb	694	Barb	805	pear	893	Rebo heml
013	Acro cord	100	incl	196	bonj	283	muen	374	Meca ulf	471	ludw	558	fusc	695	Barb	806	rept	894	Rebo heml
014	Acro cord	101	incl	197	bonj	284	muen	375	Meca ulf	472	ludw	559	gurg	696	Barb	807	seta	895	Rloc
015	Acro cord	102	incl	198	calc	285	muen	376	Meca ulf	473	nuta	560	imbr	697	Barb	808	seta	896	Rloc
016	Acro cord	103	incl	199	flag	286	muen	377	Meca ulf	474	roth	561	imbr	698	Barb	809	seta	897	Rloc
017	Acro cord	104	incl	200	flag	287	muen	378	Meca ulf	475	roth	562	imbr	699	Barb	810	seta	898	Rloc
018	Acro cord	105	incl	201	flag	288	muen	379	Meca ulf	476	roth	563	imbr	700	Barb	811	seta	899	Rloc
019	Acro cord	110	comp	202	flag	289/1	muen	380	Meca ulf	477	roth	564	imbr	701	Barb	812	seta	900	Rloc
020	Acro cord	111	comp	203	flag	289/2	muen	381	Meca ulf	478	roth	565	imbr	702	Barb	813	seta	901	Rloc
021	Acro cord	112	comp	204	flag	290	muen	382	Meca ulf	479	roth	566	imbr	703	Barb	814	seta	902	Rloc
022	Acro cord	113	comp	205	flag	291	muen	383	Meca ulf	480	roth	567	imbr	704	Barb	815	seta	903	Rloc
023	Acro cord	114	comp	206	flag	292	muen	384	Meca ulf	481	roth	568	imbr	705	Barb	816	seta	904	Rloc
024	Acro cord	115	comp	207	flag	293	muen	385	Meca ulf	482	roth	569	imbr	706	Barb	817	seta	905	Rloc
025	Acro cord	121	comp	208	flag	294	muen	386	Meca ulf	483	roth	570	imbr	707	Barb	818	seta	906	Rloc
026	Acro cord	122	comp	209	flag	295	muen	387	Meca ulf	484	roth	571	imbr	708	Barb	819	seta	907	Rloc
027	Acro cord	123	comp	210	flag	296	muen	388	Meca ulf	485	roth	572	imbr	709	Barb	820	seta	908	Rloc
028	Acro cord	124	comp	211	flag	297	muen	389	Meca ulf	486	roth	573	imbr	710	Barb	821	seta	909	Rloc
029	Acro cord	130	comp	212	flag	298	muen	390	Meca ulf	487	roth	574	imbr	711	Barb	822	seta	910	Rloc
030	Acro cord	131	comp	213	flag	299	muen	391	Meca ulf	488	roth	575	imbr	712	Barb	823	seta	911	Rloc
031	Acro cord	132	comp	214	flag	300	muen	392	Meca ulf	489	roth	576	imbr	713	Barb	824	seta	912	Rloc
032	Acro cord	133	comp	215	flag	301	muen	393	Meca ulf	490	roth	577	imbr	714	Barb	825	seta	913	Rloc
033	Acro cord	134	comp	216	flag	302	muen	394	Meca ulf	491	roth	578	imbr	715	Barb	826	seta	914	Rloc
034	Acro cord	135	comp	217	flag	303	muen	395	Meca ulf	492	roth	579	imbr	716	Barb	827	seta	915	Rloc
035	Acro cord	136	comp	218	flag	304	muen	396	Meca ulf	493	roth	580	imbr	717	Barb	828	seta	916	Rloc
036	Acro cord	137	comp	219	flag	305	muen	397	Meca ulf	494	roth	581	imbr	718	Barb	829	seta	917	Rloc
037	Acro cord	138	comp	220	flag	306	muen	398	Meca ulf	495	roth	582	imbr	719	Barb	830	seta	918	Rloc
038	Acro cord	139	comp	221	flag	307	muen	399	Meca ulf	496	roth	583	imbr	720	Barb	831	seta	919	Rloc
039	Acro cord	140	comp	222	flag	308	muen	400	Meca ulf	497	roth	584	imbr	721	Barb	832	seta	920	Rloc
040	Acro cord	141	comp	223	flag	309	muen	401	Meca ulf	498	roth	585	imbr	722	Barb	833	seta	921	Rloc
041	Acro cord	142	comp	224	flag	310	muen	402	Meca ulf	499	roth	586	imbr	723	Barb	834	seta	922	Rloc
042	Acro cord	143	comp	225	flag	311	muen	403	Meca ulf	500	roth	587	imbr	724	Barb	835	seta	923	Rloc
043	Acro cord	144	comp	226	flag	312	muen	404	Meca ulf	501	roth	588	imbr	725	Barb	836	seta	924	Rloc
044	Acro cord	145	comp	227	flag	313	muen	405	Meca ulf	502	roth	589	imbr	726	Barb	837	seta	925	Rloc
045	Acro cord	146	comp	228	flag	314	muen	406	Meca ulf	503	roth	590	imbr	727	Barb	838	seta	926	Rloc
046	Acro cord	147	comp	229	flag	315	muen	407	Meca ulf	504	roth	591	imbr	728	Barb	839	seta	927	Rloc
047	Acro cord	148	comp	230	flag	316	muen	408	Meca ulf	505	roth	592	imbr	729	Barb	840	seta	928	Rloc
048	Acro cord	149	comp	231	flag	317	muen	409	Meca ulf	506	roth	593	imbr	730	Barb	841	seta	929	Rloc
049	Acro cord	150	comp	232	flag	318	muen	410	Meca ulf	507	roth	594	imbr	731	Barb	842	seta	930	Rloc
050	Acro cord	151	comp	233	flag	319	muen	411	Meca ulf	508	roth	595	imbr	732	Barb	843	seta	931	Rloc
051	Acro cord	152	comp	234	flag	320	muen	412	Meca ulf	509	roth	596	imbr	733	Barb	844	seta	932	Rloc
052	Acro cord	153	comp	235	flag	321	muen	413	Meca ulf	510	roth	597	imbr	734	Barb	845	seta	933	Rloc
053	Acro cord	154	comp	236	flag	322	muen	414	Meca ulf	511	roth	598	imbr	735	Barb	846	seta	934	Rloc
054	Acro cord	155	comp	237	flag	323	muen	415	Meca ulf	512	roth	599	imbr	736	Barb	847	seta	935	Rloc
055	Acro cord	156	comp	238	flag	324	muen	416	Meca ulf	513	roth	600	imbr	737	Barb	848	seta	936	Rloc
056	Acro cord	157	comp	239	flag	325	muen	417	Meca ulf	514	roth	601	imbr	738	Barb	849	seta	937	Rloc
057	Acro cord	158	comp	240	flag	326	muen	418	Meca ulf	515	roth	602	imbr	739	Barb	850	seta	938	Rloc
058	Acro cord	159	comp	241	flag	327	muen	419	Meca ulf	516	roth	603	imbr	740	Barb	851	seta	939	Rloc
059	Acro cord	160	comp	242	flag	328	muen	420	Meca ulf	517	roth	604	imbr	741	Barb	852	seta	940	Rloc
060	Acro cord	161	comp	243	flag	329	muen	421	Meca ulf	518	roth	605	imbr	742	Barb	853	seta	941	Rloc
061	Acro cord	162	comp	244	flag	330	muen	422	Meca ulf	519	roth	606	imbr	743	Barb	854	seta	942	Rloc
062	Acro cord	163	comp	245	flag	331	muen	423	Meca ulf	520	roth	607	imbr	744	Barb	855	seta	943	Rloc
063	Acro cord	164	comp	246	flag	332	muen	424	Meca ulf	521	roth	608	imbr	745	Barb	856	seta	944	Rloc
064	Acro cord	165	comp	247	flag	333	muen	425	Meca ulf	522	roth	609	imbr	746	Barb	857	seta	945	Rloc
065	Acro cord	166	comp	248	flag	334	muen	426	Meca ulf	523	roth	610	imbr	747	Barb	858	seta	946	Rloc
066	Acro cord	167	comp	249	flag	335	muen	427	Meca ulf	524	roth	611	imbr	748	Barb	859	seta	947	Rloc
067	Acro cord	168	comp	250	flag	336	muen	428	Meca ulf	525	roth	612	imbr	749	Barb	860	seta	948	Rloc
068	Acro cord	169	comp	251	flag	337	muen	429	Meca ulf	526	roth	613	imbr	750	Barb	861	seta	949	Rloc
069	Acro cord	170	comp	252	flag	338	muen	430	Meca ulf	527	roth	614	imbr	751	Barb	862	seta	950	Rloc
070	Acro cord	171	comp	253	flag	339	muen	431	Meca ulf	528	roth	615	imbr	752	Barb	863	seta	951	Rloc
071	Acro cord	172	comp	254	flag	340	muen	432	Meca ulf	529	roth	616	imbr	753	Barb	864	seta	952	Rloc
072	Acro cord	173	comp	255	flag	341	muen	433	Meca ulf	530	roth	617	imbr	754	Barb	865	seta	953	Rloc
073	Acro cord	174	comp	256	flag	342	muen	434	Meca ulf	531	roth	618	imbr	755	Barb	866	seta	954	Rloc
074	Acro cord	175	comp	257	flag	343	muen	435	Meca ulf	532	roth	619	imbr	756	Barb	867	seta	955	Rloc
075	Acro cord	176	comp	258	flag	344	muen	436	Meca ulf	533	roth	620	imbr	757	Barb	868	seta	956	Rloc
076	Acro cord	177	comp	259	flag	345	muen	437	Meca ulf	534	roth	621	imbr	758	Barb	869	seta	957	Rloc
077	Acro cord	178	comp	260	flag	346	muen	438	Meca ulf	535	roth	622	imbr	759	Barb	870	seta	958	Rloc
078	Acro cord	179	comp	261	flag	347	muen	439	Meca ulf	536	roth	623	imbr	760	Barb	871	seta	959	Rloc
079	Acro cord	180	comp	262	flag	348	muen	440	Meca ulf	537	roth								

ANIMAL RECORD	REGN. LMA	DIVN. PRES.	AREA BARROW	SITE B175
SITE NAME Dalton-in-Furness	RECORDER A. Marsden	WEATHER Quite cloudy but bright & mainly sunny. Warm to hot with a slight breeze.		LANDFORM ① 2 3 4 ⑤ 6 7 long medium to large cutting with retaining walls below & flats above. Near the tunnel mouth there is a rock cutting mainly on the SE side. The NW corner greatly has to include a large flat.
N.P. 23	TIPPING None in the main	DATE. 25.8.79	TIME 1500 → 1640	
COUNTY Cumbria	N.L.U. Road, improved grass land & small holding.			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	5	30	700	There is here a good plant lot and large areas of varied grassland and scrub. The veg. is mainly rather coarse but it is very rich in forbs. The cliff provides many ledges & rocks and crannies and the broad flat opposite appears to be used as a long park and is almost bare of vegetation. There is an access here to the A540 and a bank all the way round with rough grass & scrub. A good varied site, large area with many opportunities for a big variety of large & small animals. Of some value in its region.	Birds (small)	3	3	3
1	1	20	700		Birds (large)	3	2	2
1	6	20	700		Mamm. (small)	3	3	3
4	3	10	700		Mamm. (large)	2	2	2
6	8	-	703		Other verts.	.	3	3
6	9	20	703		Lepidoptera	3	.	3
					Other insects	3	3	3
					Other inverts.	3	3	3

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Chaffinch	5550	1			Small White	
Robin	4000	1			Large White	
Blackbird	4240	1			Red Admiral	
Willow Warbler	4720	1			Small Tortoiseshell	
Great Tit	3790	1			Cinnabar moth caterpillars	
					Pyrilid moths.	
					Red-tailed Bumble-bee	
					Bull-	
					Honey-bee	
					<u>Diplolepis rosae</u>	
					Tipulid flies.	
					Aeshna sp.	
					Lasius sp. Aphids.	
					Caprid bugs.	
contd. over			contd. over		contd. over	✓
			Rabbit	1		
contd. over			contd. over		contd. over	

SPECIES LIST OF ANIMALS contd.

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	OF
					Various: Odonata Orthoptera other Diptera (inc. house flies) .. Hemiptera (inc. frog hoppers) Arachnida.	

CASUALTY LIST OF ANIMALS RECORDED ON B.R.

					Snails.	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Lowca

Map Ref NX97.21 Data bank ref

NCC Region North West

County Cumbria

Internal ref B177

STATUS

Part of	Adjacent to	NNR	PNNR	INR	SSSI	
---------	-------------	-----	------	-----	------	--

County Flora site. State ref -

Local Information site. State source - IRBomer - N.C.C., D.R.O.

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	<u>Rare</u>	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Coastal vegetation with unstable cliffs and mine spoil.
)
Geological)

RAILWAY REGION LMA

DIVISION Preston

AREA Whitehaven

Address of Area Civil Engrs Office B. Robinson

Telephone number Whitehaven Str.
CUMBRIA

Tel. No 0946 2411/5

Name of railway line Barrow -> Carlisle.

Access at Path to coast by N. bank of Lowca Beck: NX979211

Mileage post 13/4 -> 21/4

NOTIFICATION

	With whom	By whom	Date	Ref.
Site notified to BR				
Management agreement (see section 3 for detail)				

VISITS

Date	By whom	Assessment/Action
<u>28th August 1979</u>	<u>Dr. C.M. Sargent, A. Marsden & J.O. Mountford.</u>	<u>An interesting open vegetation developing on a mixture of spoil & natural soil on a slope with good populations of several rather rare plants. The site has a rich flora with a number of interesting veg. types. It provides a little cover for small birds and abundant food for flying insects. A highly industrialized area with the BR land providing a refuge for native spp. & interesting environmental conditions.</u> <u>* Recommend the site be noted by NCC & notified to BR on account of its plant value. Some co-operation with NCB may also be necessary since the boundary between the line & NCB is often a little imprecise. Further surveys up to Harrington are necessary to get a complete picture.</u>

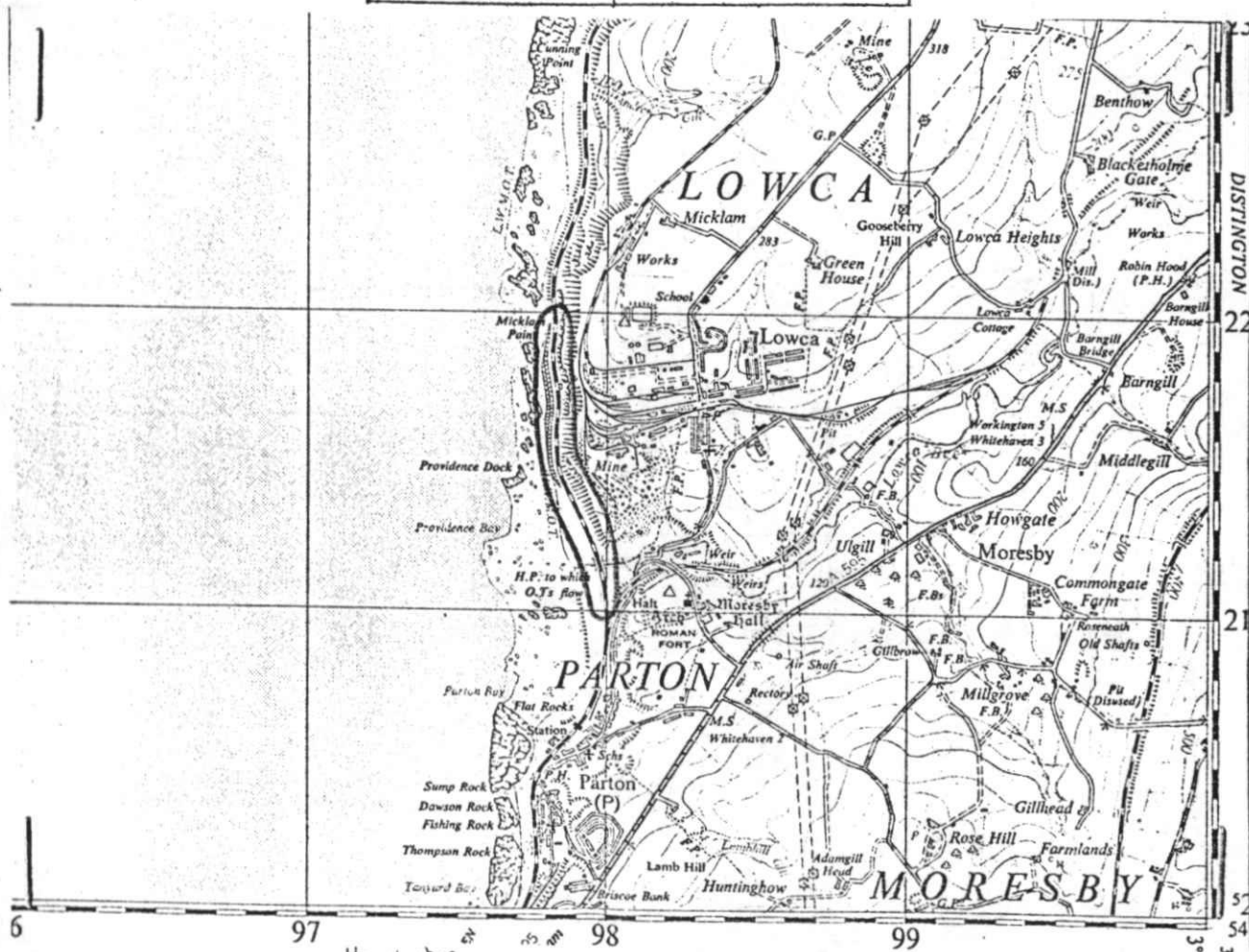
Continue overleaf

FILE OPENED BY ITE Monks Wood

DATE 28th Jan. 1980

LOCATION STATUS

Accurate	Approximate
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SKETCH MAP

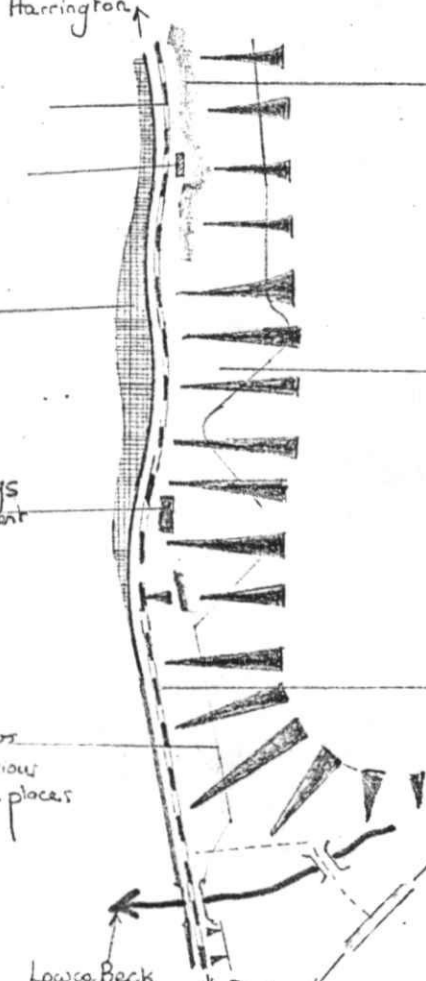
Double line

Almost intact buildings

Sea-wall, long slope with low parapet - only *Grimmia maritima* present

Partly demolished buildings with natural rocks adjacent

BR boundary - wanders up & down slope without obvious reason & appears missing in places



Natural cliffs, often unstable. Generally less vegetated than the spoil slopes but essentially similar in flora. The rubble here are less polluted & have *Equisetum telmateia*.

Spoil slopes covered in forb-rich grasslands of *Festuca* & *Poleys lanatus* with *betony*, *harebell*, *hornedail* & *Plantago maritima* etc. Yarrow also common with good populations of *Vicia sylvatica*, *Lathyrus sylvestris*, *Geranium hintonia*, *orpha* etc. Occasional low bramble, hawthorn. Drained by polluted mills. More nutrient rich near bottom of slope with *Knautia* & *Tussilago*.

Disturbed crests either dominated by *Trifolium sparmum*, + *Plantago maritima*, *Cochlearia*, *Barbarea* & *Artemisia*, plus coarse grasses & dock.

Continue overleaf

SITE NAME Lowca

CDB ref

(Section 3)
Internal ref B177Altitude 15' → 125'Local Geology Carboniferous: sandstones, clays, ironstones & coals of Productive Coal Measure. No drift but fault line runs across site at N. End.Neighbouring Landuses Sea rocks; slagheaps and mine; sewage farm & Beck

DIRECTION FROM ACCESS

(N)	E	W	S	E	W	or	BOTH
-----	---	---	---	---	---	----	------

Dist from * access point	0 → 800m	0 → 800m	50 → 300m	300 → 800m	c. 300m			
Side of track °	W.	E.	E.	E.	E.			
Landform x	Sea-wall	Flat	Cut.	S.Cut	Buildings			
Aspect-degrees	c. 280°	—	c. 280°	c. 280°	—			
Width-metres	2m	→ 5m	→ 75m	→ 75m	c. 10m.			
Disturbance +	Spray	S. Cind.	S. Tipp.	Slippage	Demolished.			

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Good populations of several rare or local spp. esp. leguminosae: Lathyrus sylvestris, Vicia sylvatica, Genista hincoria, Sedum telephium and Equisetum telmateia. Good forb-rich grassland on an interesting mixture of colliery spoil & natural soil slippage. 10 spp..

General vegn characteristics and habitat description indicate side of track

The site runs along the sea-shore and on the W. side has a low stone wall parapet with a long slope down to the rocky shore. There is a little or no vascular vegetation on the wall which is open to the sea on one side and the spray train on the other. However Grimmia maritima is sparingly present [column 1]. The other side has a cinder flat by the line of variable width made up of cinder and tipped colliery spoil. It has an ruderal vegetation of Tripleurospermum and groundsel with occasional coarse grasses and docks. Several maritime spp occur along the strand: Cochlearia, Spergularia, Amaris and Plantago maritima [column 2]. The bulk of the site is the very wide, positive slope which occurs both on colliery spoil and the land slippage of unstable cliffs. There appears to be little difference in the vegetation between these two. The colliery spoil is most widespread in the South (column 3). The cliffs, which emerge from the spoil particularly in the north are steeper and have more bare soil and are generally less polluted [column 4]. The cover generally is a mixed herb-rich grassland of Holcus lanatus and Festuca rubra with very little scrub but locally frequent low bramble. The commoner forbs include betony, horseball, tormentil, yarrow, knapweed & Plantago maritima. Several other spp are locally common: Lathyrus sylvestris, Vicia sylvatica (particularly in the north), Genista hincoria (especially near the AP) and Sedum telephium. The lower edges are generally more disturbed and have more nutrients with coltsfoot and Cirsium aversa notably common, as well as C. vulgare. The slope is crossed by many runnels which score the surface. On the colliery crests these are often very polluted and have no vegetation, plus the vegetation adjacent is often discoloured or dead. Those mainly on the cliff are better and Equisetum telmateia grows in one of them. The boundary fence winds up and down the slope. A BR land may be as little as 5m. wide or up to 75m, possibly more. There occur at the foot of the slope some partly demolished buildings, probably built for the mine. They have a more pronounced ruderal vegetation, related to both col: 2 & 3/4. with more Sonchus, dock & nettle. [column 5].

PREFERRED MANAGEMENT

Little is probably needed.

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

Much disturbance but bar trackside spraying - little management

28.8.79 fom.

Continue overleaf

CODE	NAME	PLANT	FRUIT	SEED	LEAF	WOOD	STEM	ROOT	OTHER
166	<i>Amelia m. maritima</i>	herb	fr	fr	fr	fr	fr	fr	fr
214	<i>Amplex hastata</i>	herb	fr	fr	fr	fr	fr	fr	fr
535	<i>Coclearia officinalis</i>	herb	fr	fr	fr	fr	fr	fr	fr
1117	<i>Lathyrus sylvestris</i>	herb	fr	fr	fr	fr	fr	fr	fr
1489	<i>Pionhep maritima</i>	herb	fr	fr	fr	fr	fr	fr	fr
1736	<i>Rumex acetosella</i>	herb	fr	fr	fr	fr	fr	fr	fr
1828	<i>Hieracium sp.</i>	herb	fr	fr	fr	fr	fr	fr	fr
1832	<i>Hieracium sp.</i>	herb	fr	fr	fr	fr	fr	fr	fr
1990	<i>Hieracium sp.</i>	herb	fr	fr	fr	fr	fr	fr	fr
2199	<i>Gringularia marina</i>	herb	fr	fr	fr	fr	fr	fr	fr
	<i>Vicia sylvatica</i>	herb	fr	fr	fr	fr	fr	fr	fr

Additional Species
CODE NAME

001	Acro	mult	0874	wirg	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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ANIMAL RECORD	REGN. LMA	DIVN. PRES.	AREA WHITE.	SITE B177
SITE NAME Lowca	RECORDER A. Marsden	WEATHER Bright & sunny but with a haze. Strong breeze off the sea, but warm in shelter		LANDFORM ① ② ③ 4 5 6 7 There is a low emb. across the mouth of the Lowca Beck. The W. side from there N. has a sea-wall on the edge of a narrow flat. The E. side is a broad positive slope of cutting, spoil heap or natural
M.P. 1 3/4 → 2 1/4	TIPPING Much of the site is covered in colliery spoil	DATE 28.8.79	TIME 1615 → 1740	
COUNTY Cumbria	N.L.U. Colliery tip to E; Irish Seas to W.			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
1	6	85	700	The site is mainly a broad slope covered in herb-Asp-rich grassland, growing on spo. or unstable cliffs. There is a little <i>Ulex</i> & <i>houstonia</i> , but no scrub to speak of. Several toxic rills are furrowing the slope and in them most of the vegetation is dead or dis- coloured. The edge by the sea is a wall with only <i>Grimmia maritima</i> present. A poor site for larger animals except sparingly for ground-nesting birds and seed-eating mammals. An average to good insect site however, with an excellent variety of food plants etc.	Birds (small)	2	1	1
3	0	1	700		Birds (large)	1	1	0
6	8	15	703.		Mamm. (small)	2	1	1
					Mamm. (large)	2	1	0
					Other verts.	.	1	1
					Lepidoptera	2	.	3
				Other insects	3	3	3	
				Other inverts.	3	3	3	

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Kestrel (♂ having over BR)	1480	1			Small Copper Small Tortoiseshell Gatekeeper Pyralid moths Blk-tailed Bumble-bee <u>Rhagoletia fulva</u> Various Orthoptera Other Hymenoptera Gastropoda	
Pied Wagtail	5032	1				
contd. over			contd. over		contd. over	
Rock Black-headed Gull	3700	2			Tipulid fly.	
Herring Gull	2630	3				
Gray Wagtail	2560	2				
	5050	2				
contd. over			contd. over		contd. over	

RAILWAY SITE OF BIOLOGICAL INTEREST

SITE NAME Baron Wood

Map Ref NY51.43.

Data bank ref

NCC Region North West

County Cumbria

Internal ref 8178

STATUS

Part of	Adjacent to	NNR	PNNR	LNR	SSSI	
---------	-------------	-----	------	-----	------	--

County Flora site. State ref -

Local Information site. State source - IRBomer - N.C.C., D.R.O.

Discovery etc. (Describe) -

INTEREST

<u>Plants</u>	<u>General</u>	<u>Local</u>	Rare	Very rare	
Animals	Insects	Reptiles	Birds	Mammals	

Habitat) describe - Pine/birch young woodland. Heather and calcifuge grass.
) Bilberry heath. Rock cutting, dry & damp - the latter with
Geological) mossy dripping cliffs.

RAILWAY REGION LMA DIVISION Preston

AREA Appalby

Address of Area Civil Engrs Office B. Ainsy
Telephone number Appalby Str.
CUMBRIA

Tel. No. 0930 51730

Name of railway line Settle -> Carlisle.

Access at Bridge under of forest track at NY512438.

Mileage post 296

NOTIFICATION

Site notified to BR

Management agreement
(see section 3 for detail)

With whom	By whom	Date	Ref.

VISITS

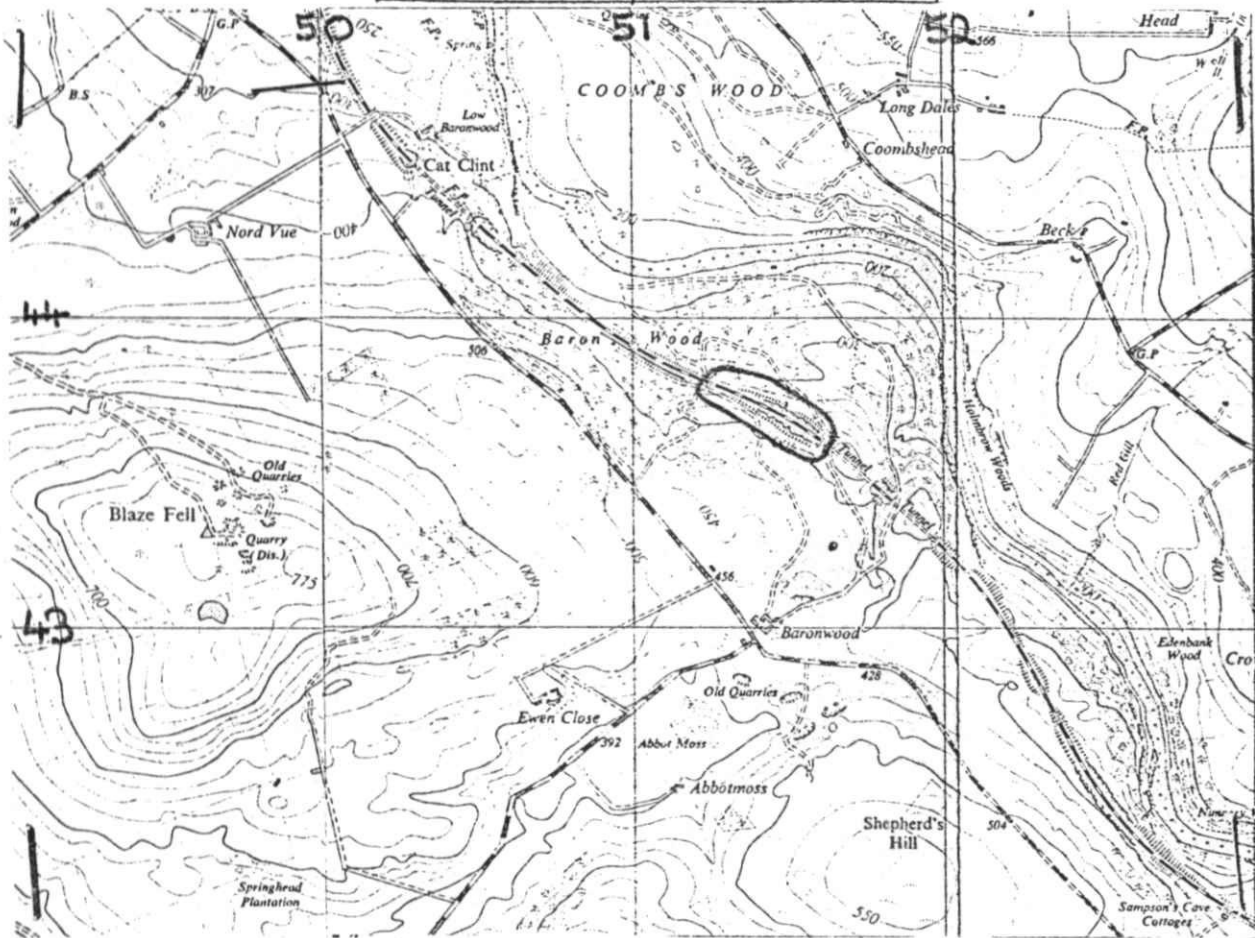
Date	By whom	Assessment/Action
<u>29th August 1979</u>	<u>Dr. C.M. Sargent, A. Marsden and J.O. Mountford.</u>	<u>One of the better calcifuge sites examined on BR, especially not-</u> <u>able for its bryophyte flora which is much richer than normal on</u> <u>railway land. It is a good site and supports a well developed</u> <u>pine/birch association. It provides a diverse site in rather</u> <u>monotonous forestry land and has a number of local spp. present.</u> <u>* The series of cuttings from Lowbouse through Arncliffe</u> <u>south to Kirkstall should all be surveyed. This is a good site but</u> <u>it could easily have been better and does not merit scheduling.</u> <u>However its considerable local value means that notification to</u> <u>BR should be made and some restriction of broadscale</u> <u>spraying made. Further bryophyte work especially might be</u> <u>productive.</u>

FILE OPENED BY ITE Monk's Wood

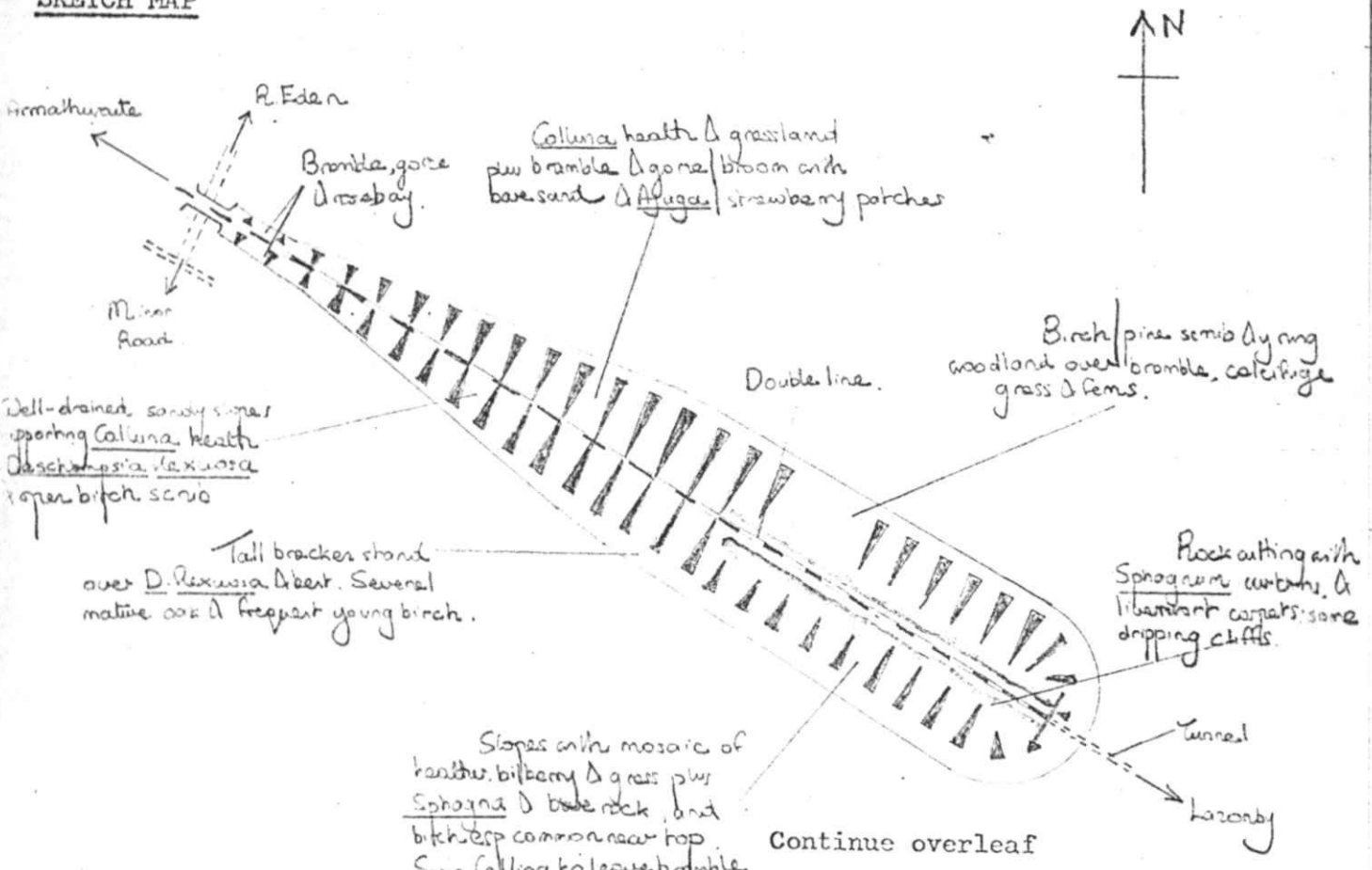
DATE 29th Jan. 1980

LOCATION STATUS

<u>Accurate</u>	Approximate
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SKETCH MAP



SITE NAME Baron Wood

CDB ref

Internal ref B178Altitude 300' → 380' Local Geology PPermian Penrith Sandstone: some boulder clay & glacial lake deposits on tunnel top & near site edgeNeighbouring landuses Planted conifer woodland & areas more natural with deciduous mixed in.

DIRECTION FROM ACCESS

N	E	W	(S)	E	W	or	BOTH
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Dist from * access point	0 → 40m.	40 → 200m	40 → 200m	200 → 400m	200 → 400m	200 → 400m	200 → 400m	100 → 400m
Side of track °	both	SW.	NE	SW	NE.	SW.	NE	SW.
Landform x	Emb./Flat	Cut.	Cut.	S. Cut	S. Cut.	Cut	Cut./Flat	Flat
Aspect-degrees	210°/30°	30°	210°	30°	210°	30°	210°	—
Width-metres	2x6m.	→20m	→20m	→20m	→20m	c15m	→25m	→15m
Disturbance +	—	—	—	—	—	Clear	—	—

- * If site is both sides of access point, precede distance by cardinal point
- o Indicate side of track by compass cardinal point
- x Flat, Cut, Emb, Combination, Complex, Steep, Moderate, Structure, etc.
- + Severe, Moderate, Light, Tipping, Ballast, Cinder, Fire, Clearance, Works, etc.

FEATURES OF SPECIAL INTEREST Small population of Pyrola minor; with Achillea ptarmica, cowslip, Viola palustris, Myosotis discolor & Arenaria leptoclada. 94 vascular plant spp & 31 Bryophyte inc. a good number of liverworts with Odontoschisma dendrocladum frequent. Good variety of damp and dry calcifuge vegetation in sheltered site.

General vegn characteristics and habitat description indicate side of track
The low embankment at the AP is covered in mixed coarse calcifuge vegetation of brambles, rosebay, gorse & Hawthorn with a little Ammannium [column 1]. The cutting itself is damp and has a great deal of scrub & scattered bushes frequent in the more open areas. The SW. side has a well-drained sandy slope covered in Calluna heath with Deschampsia flexuosa bent grassland & a lot of colonizing young birch. The area has a good selection of dry grassland spp. inc. harebell, Galium saxatile etc. [column 2]. The NE. side is similar but more disturbed and with a considerable amount of bramble, bracken & low bushes. The surviving grassland is coarser and there is less Calluna. Open disturbed parts have Myosotis, Arenaria, Sagina & Carex. Less disturbed ground has Fuchsia, Polygonum, Fragaria & cowslip. [column 3]. The rock cutting is generally similar on both sides with much exposed sandstone. The broader ledges have vegetation akin to that further NW. or on the gentler upper slopes. Sphagnum plumulosum is the main cover over much of the area, on ledges and spilling over the cliff face with the crater flow, forming long columns or falls of moss. Pyrola occurs in such places and drier parts have Adonis, Viola palustris, Orchis etc. Generally the NE. side is more scrubby & drier. On the bare rock Odontoschisma & other Hepaticae often form a carpet [columns 4-5]. The gentler slopes above on the SW. side have a lot of Sphagnum & bilberry, plus areas of heath & calcifuge grassland. Scrub colonization appears to have been controlled by cutting in the past and bramble has come in. Near the slope top though there is a band of tall birch scrub with heath underneath & some Deschampsia [column 6]. The slope on the NE. side has pine/birch scrub over much of its length (and the flat to the fence) with a ground over rather sparse with bramble, Dryopteris & calcifuge grasses. There is a lot of bare ground & litter however and the slope is generally dry. [column 7]. Finally the broad flat on the SW. side at the top is covered mainly in bracken & tall stand with a number of emergent mature oak trees and frequent birch colonisation. Underneath the bracken canopy is Deschampsia bent grassland with bedstraw etc [column 8].

PREFERRED MANAGEMENT

Occasional scrub clearance to maintain open heath — burning?

EVIDENCE OF MANAGEMENT. Close entries by date and recorder's initials.

Some cut-stumps along upper edge of rock cutting — SW. side.

29.8.79 fom

Continue overleaf

ANIMAL RECORD	REGN. LMA	DIVN. PRES.	AREA APPEBY	SITE B178
SITE NAME Baron Wood	RECORDER A. Marsden	WEATHER Sunny & warm but becoming rather cloudy with a slight breeze.		LANDFORM 1 2 ③ 4 ⑤ 6 7 Low emb. at AP. Soon becoming a large deep cutting with broad flats above esp. on SW. Near tunnel mouth, rock cutting on both sides.
M.P. 296	TIPPING -	DATE 29.8.79	TIME 1550 → 1730.	
COUNTY Cumbria	N.I.U. Woodland, both planted conifer and mixed.			

HABITAT APPRAISAL

A	B	Z	MGT.	DESCRIPTION	ANIMAL	FH	FC	R
0	054	40	700	Deep cutting with much of NE. side covered in phal birch scrub → mixed woodland. This occurs sparingly esp. on cutting top on SW. side. The flats have high bracken stands as do the lower cutting slopes. The slopes are mainly heather/calcifuge grass/bribery & moss. The rock faces have many wet areas with liverworts & Sphagnum. Good variety of habitats combining scrub with more open ground rich in vascular plants. Not apparently very good for birds etc though it should be better than NL and definitely preferable to conifer wood for insect variety.	Birds (small)	2	2	3
1			700		Birds (large)	2	1	2
1			700		Mamm. (small)	2	2	2
1			700		Mamm. (large)	1	1	1
4			700		Other verts.	.	2	2
6			700		Lepidoptera	2	.	2
				Other insects	3	3	3	
				Other inverts.	3	3	3	

SPECIES LIST OF ANIMALS RECORDED

BIRDS	CODE	ORD.	OTHER VERTS.	ORD.	INVERTS.	ORD.
Woodpigeon	2990	1	[Small burrows].		Pyralid moth Buff-tailed Bumble-bee Vespula sp. Worms: Diptera inc. Culicid. Orthoptera Coleoptera. Araneida. Gastropoda Opiliones.	
contd. over			contd. over		contd. over	
					Small White.	
contd. over			contd. over		contd. over	