

Appendix 5: Lye Valley North Fen, East side - Site 1

Vegetation transect from 1m uphill from side of first concrete lump to pollard willow other side of brook

Key: valuable calc fen spp. - highlighted yellow

rich fen spp. Disappear, drier-tolerant plants start - highlighted orange

'step down' = sudden change of surface to lower level

		Distance SE-NW from SE slope base to central stream (m) & percentage cover									contiguous 1m x 1m quadrats								
		S East bank								bank	step down					path	step down		brook edge
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
SP54770 05822 to SP54758 05827																			
<i>Visibly wet at surface?</i>		moist	wet	wet	wet	wet	wet	wet	wet	moist	moist	moist	moist	moist	moist	moist	moist	dry	
<i>Water (pool,runnel)</i>					1	5	5		20										
<i>Bare mud/peat</i>					2	10	2												
<i>Iron oxide or tufa?</i>						tufa	tufa												
SPECIES	COMMON NAME																		
chara sp	stonewort						1												
Phragmites australis	common reed	10	4	1			1	1			0.5	0.5	0.5	1	5	10	10		
Juncus subnodulosus	blunt flowered rush	40	70	40	5	20	25	20	15	10	80	40	50	40	30	10	5		
Filipendula ulmaria	meadowsweet	10	1								5	1	5	10	5	10	25		
Eupatorium cannabinum	hemp agrimony	5								5	5	1				1			
Equisetum palustre	marsh horsetail	5	10	5	5	2	5	10	10	15	5	1	2	2	4				
Cirsium palustre	marsh thistle	5	2										3				5		
Carex panicea	carnation sedge	2	5	50	20	10	20	40	25	20	10	10	10						
Molinia caerulea	purple moor grass	1	1																
Mentha aquatica	water mint	0.5											0.5						

Appendix 5: Lye Valley North Fen, East side - Site 1

		Distance SE-NW from SE slope base to central stream (m) & percentage cover									contiguous 1m x 1m quadrats								
SP54770 05822 to SP54758 05827		S East bank								bank	step down					path	step down		brook edge
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<i>Visibly wet at surface?</i>		moist	wet	wet	wet	wet	wet	wet	wet	moist	moist	moist	moist	moist	moist	moist	moist	dry	
<i>Water (pool,runnel)</i>					1	5	5		20										
<i>Bare mud/peat</i>					2	10	2												
<i>Iron oxide or tufa?</i>						tufa	tufa												
SPECIES	COMMON NAME																		
<i>Pedicularis palustris</i>	marsh lousewort		1	5	30	5	10	15	10	40	10	0.1	0.1			1			
<i>Eleocharis quinqueflora</i>	few -flowered spike rush				5	4													
<i>Epipactis palustris</i>	marsh helleborine					4	6	10											
<i>Valeriana dioica</i>	marsh valerian					2		2						4		4			
<i>Equisetum arvense</i>	field horsetail						1	2	1	4	30	10	15	20	5	30	30		
<i>Vicia cracca</i>	tufted vetch							0.5			0.5								
<i>Carex lepidocarpa</i>	long-stalked yellow sedge							2											
<i>Carex flacca</i>	glaucous sedge								2			1	1	2					
<i>Salix cinerea</i>	grey willow								2	20									
<i>Triglochin palustre</i>	marsh arrowgrass								2										
<i>Lotus pedunculatus</i>	greater bird's foot trefoil									2	4	2	2	1	2				
<i>Festuca pratensis</i>	meadow fescue									0.5									
<i>Glechoma hederacea</i>	ground ivy									0.5									
<i>Ajuga reptans</i>	bugle									0.5		0.5			1				

Appendix 5: Lye Valley North Fen, East side - Site 1

		Distance SE-NW from SE slope base to central stream (m) & percentage cover									contiguous 1m x 1m quadrats								
SP54770 05822 to SP54758 05827		S East bank								bank	step down					path	step down		brook edge
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<i>Visibly wet at surface?</i>		moist	wet	wet	wet	wet	wet	wet	wet	moist	moist	moist	moist	moist	moist	moist	moist	dry	
<i>Water (pool,runnel)</i>					1	5	5		20										
<i>Bare mud/peat</i>					2	10	2												
<i>Iron oxide or tufa?</i>						tufa	tufa												
SPECIES	COMMON NAME																		
Angelica sylvestris	angelica										0.5	0.5	2	2		2			
Lathyrus pratensis	meadow vetchling										0.5				1				
Festuca rubra	red fescue										1	1	1	5	2				
Galium uliginosum	fen bedstraw										0.5	0.5							
Festuca arundinacea	tall fescue										0.5								
Calystegia sp	great bindweed										1	1		2					
Carex disticha	brown sedge											2	3						
Potentilla erecta	tormentil										0.5	0.5	1						
Ranunculus acris	meadow buttercup											1		0.5					
Lychnis flos-cuculi	ragged robin														2	5			
Cardamine pratensis	cuckoo flower														1	2			
Poa trivialis	rough meadow grass														1	1	10		
Arrhenatherum elatius	false oat grass															2			

Appendix 6: Lye Valley North Fen, East side - Site 2

		Contiguous 1m x 1m quadrats Dist. SE-NW from willow stump to stream edge opposite young ash (m) & percentage cover																	
SP54795 05864 to SP54781 05871		SE bank		cut											cut path				stream
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<i>Visibly wet at surface?</i>		moist	wet	wet	wet	wet	wet	wet	wet	wet	wet	wet	moist	moist			dry	dry	
<i>Water (pool,runnel)</i>									pool, 50	pool, 95	pool, 70	pool, 5							
<i>Tufa?</i>							tufa	tufa	tufa	tufa									
<i>Bare mud/peat</i>		5	60	80			2	2	30	80	65	10							
SPECIES	COMMON NAME																		
<i>Pedicularis palustris</i>	marsh lousewort					2	10	10	10	5	5								
<i>Epipactis palustris</i>	marsh helleborine						1	10	1										
<i>Valeriana dioica</i>	marsh valerian						5	5	1			5	5	15					
<i>Vicia cracca</i>	tufted vetch											1	1	1					
<i>Carex lepidocarpa</i>	long stalked yellow sedge					10	30	30	20		15	5	2						
<i>Carex flacca</i>	glaucous sedge							5											
<i>Hydrocotyle vulgaris</i>	marsh pennywort					1	5	7			10	20	10						
<i>Oenanthe lachenalii</i>	parsley water dropwort						5	2				2	2						
<i>Lythrum salicaria</i>	purple loosestrife							1											
<i>Triglochin palustre</i>	marsh arrowgrass							5											
<i>Carex rostrata</i>	bottle sedge											10	15						
<i>Ajuga reptans</i>	bugle					5									20	*	1		
<i>Angelica sylvestris</i>	angelica											1	10	15	10	*			
<i>Lathyrus pratensis</i>	meadow vetchling														1				
<i>Galium uliginosum</i>	fen bedstraw											2	2	4	2				

Appendix 7: Lye Valley North Fen, West side

21.06.2013 J A Webb		Vegetation transect from coppice ash stump down to path, 5m from bend in boardwalk 1 m x 1 m quadrats						
Key:		Valuable calc fen spp. - highlighted yellow						
		Distance from NW (uphill) ash stump to SE (path next to stream) (m) & percentage cover						
SP54753 05878 to SP54767 05853		ash stump						boardwalk
		0	5	10	15	20	25	26
<i>Visibly wet at surface?</i>		wet	wet	wet	wet	wet	wet	
<i>Bare mud/peat percent</i>		80	70	60	35	10	10	
<i>Iron oxide or tufa?</i>		iron ox.			tufa	tufa	tufa	
SPECIES	COMMON NAME							
Phragmites australis	common reed	70	100	10	10	90	80	
Juncus subnodulosus	blunt flowered rush			60	80			
Filipendula ulmaria	meadowsweet						20	
Eupatorium cannabinum	hemp agrimony			5	1	5	5	
Equisetum palustre	marsh horsetail			10	2	10		
Cirsium palustre	marsh thistle				10			
Carex panicea	carnation sedge			25	5			
Molinia caerulea	purple moor grass			2	20			
Mentha aquatica	water mint			5	2			
Pedicularis palustris	marsh lousewort			1	5			
Valeriana dioica	marsh valerian			1	5			
Oenanthe lachenalii	parsley water dropwort			1				
Calystegia sp	great bindweed	1					1	
Poa trivialis	rough-stalked meadow grass	10					5	
Arrhenatherum elatius	false oat grass	4						
Epilobium hirsutum	great willowherb	2					1	
Scrophularia aquatica	water figwort						1	
Rubus fruticosus	bramble	20						

Appendix 7: Lye Valley North Fen, West side

		Distance from NW (uphill) ash stump to SE (path next to stream) (m) & percentage cover						
SP54753 05878 to SP54767 05853		ash stump						boardwalk
		0	5	10	15	20	25	26
<i>Visibly wet at surface?</i>		wet	wet	wet	wet	wet	wet	
<i>Bare mud/peat percent</i>		80	70	60	35	10	10	
<i>Iron oxide or tufa?</i>		iron ox.			tufa	tufa	tufa	
SPECIES	COMMON NAME							
Galium aparine	cleavers	2					1	
Fraxinus excelsior	ash seedlings				2			
Epilobium parviflorum	hoary willowherb				1			
BRYOPHYTES								
Brachythecium sp							2	
Cratoneuron filicinum	fern-leaved hook-moss		30	10	5	80	80	
Calliergonella cuspidata	common spear-moss			30	60			