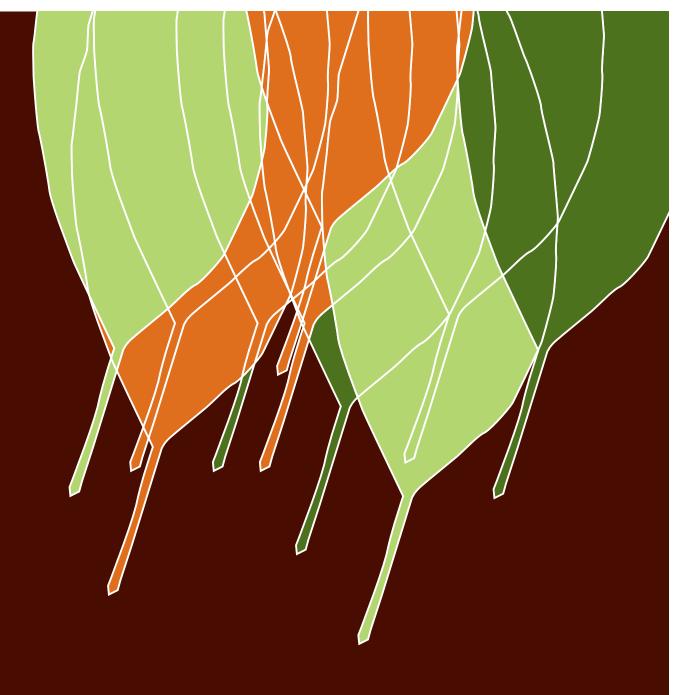


Bidston Moss Bidston, North Wirral, Merseyside







# Regeneration benefits The objectives and outomes of the Bidston Moss Project are to:

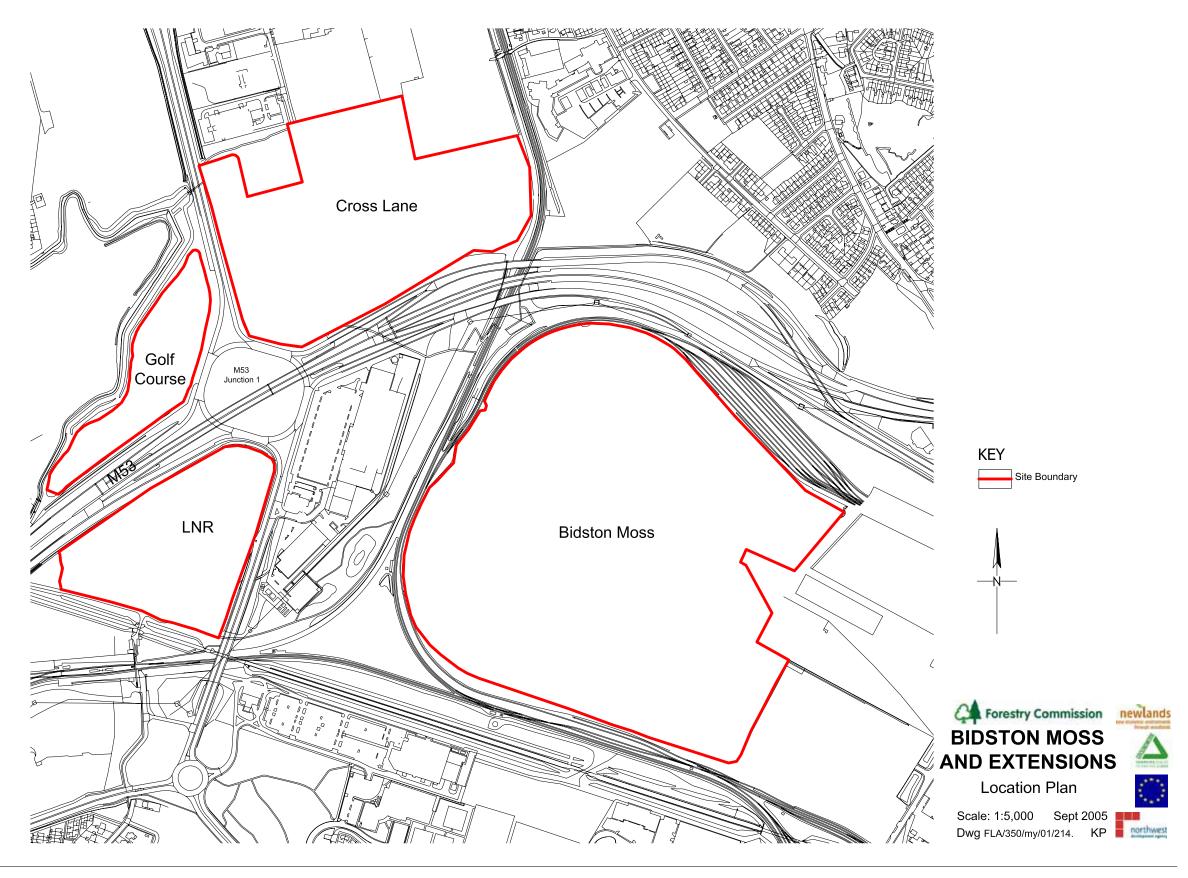
- Transform 68 hectares of previously developed brownfield land to community woodland
- Provide image improvements for the City Region of Liverpool through woodland creation around Junction 1, M53 and along a main rail route to the city, supporting strategic investments for Capital of Culture 2008
- Delivers a beacon site within the Mersey Waterfront Regional Park
- Create a zone of influence around the project area that will make it a more competitive choice for indigenous and inward business investment
- Improves 3 Super Output Areas (SOA) in Inner Wirral that are within the top 5% of the national Index of Multiple Deprivation (IMD)
- Contribute to Merseyside's Biodiversity Action Plan targets
- Improve and create safe access routes to local businesses, schools and residential areas
- Create a sub-regional cycling facility that contributes to the National Cycle Route Network







## **Project location**

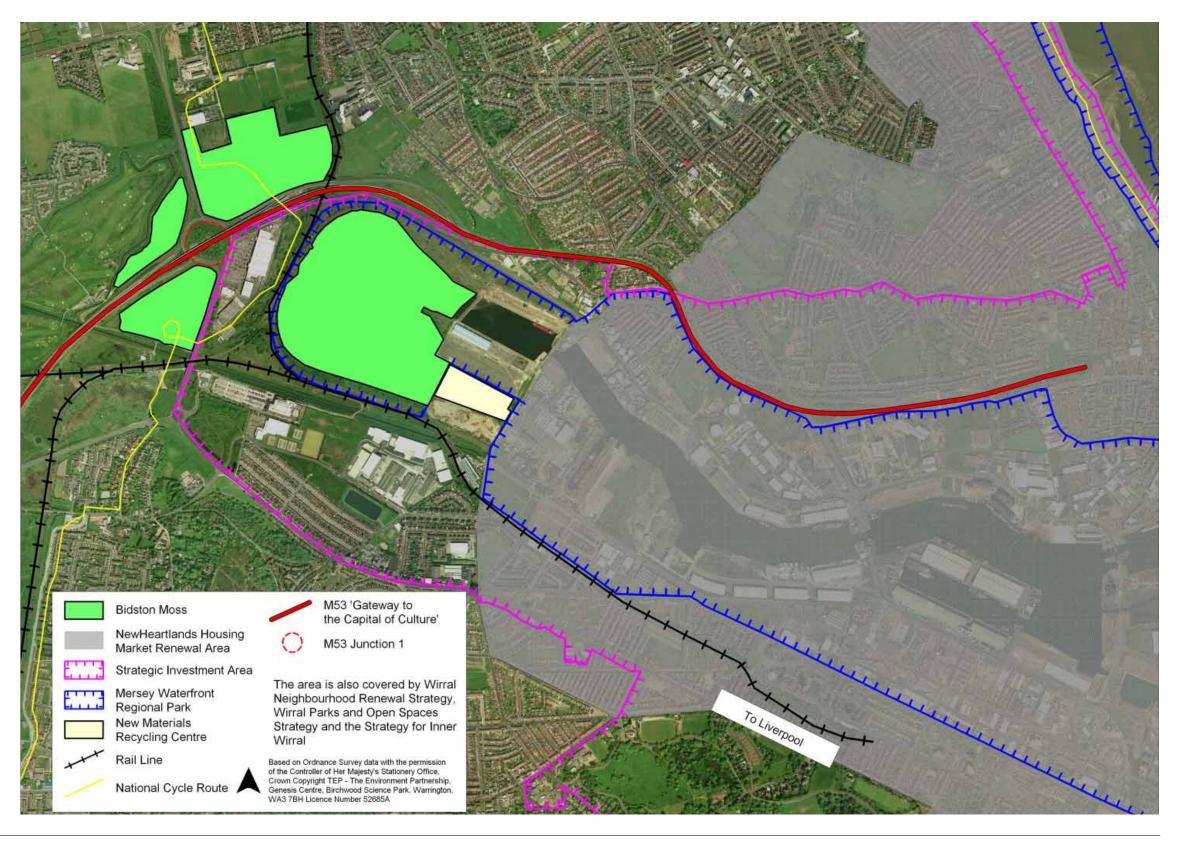








## **Strategic investment**









#### Site biography

Site: Bidston Moss Where: Bidston, North Wirral

Size: 68 hectares

The Bidston Moss Project is located in Birkenhead, overlooking junction 1 of the M53 and close to the entrance of the Mersey Tunnel. The site is made up of four blocks, three owned by Wirral Metropolitan Borough Council (WMBC) and one by Merseyside Waste Disposal Authority (MWDA). The three WMBC sites have rough grassland and shrubs growing across them, the MWDA land is planted up and already has some woodland infrastructure.

#### The four blocks are known as: The former Bidston Moss landfill site (MWDA)

The area is a large (40 ha) distinctly domed area in the centre of Birkenhead that is clearly visible across the River Mersey from Liverpool. The landfill was closed by MWDA in the 1990s.

#### The former Cross Lane Tip (WMBC)

The former Cross Lane Tip was a domestic refuse tip for WMBC between 1963-1978. The site landform is also domed but not to the scale of Bidston Moss, however soil cover is unsuitable for tree establishment. The site has not been managed in recent years and is dominated by invasive plant species.

#### Land adjacent to Bidston Golf Course (WMBC)

The land adjacent to Golf Course leased land is a flat-topped mound with steep slopes to the Birket Old Courses and M53, and a more gentle slope to the M53 roundabout and North Wallasey Approach Road (A554). It is covered in rough grassland with tall herbs, and has sparse scattered scrub and bramble thickets. This area has been constructed in part from waste materials arising from the construction of the Mersey Tunnel.

#### **Local Nature Reserve (WMBC)**

Land located in between the River Birket, the M53 and the A554, was previously used as a borrow pit during the construction the M53. When the motorway was completed the land was left to naturally regenerate. The pioneer habitats that exist on site led to its designation as a Local Nature Reserve in 1994 and declared a Site of Biological Interest in 1980. Access to the site is limited to pedestrians, however access routes are overgrown and only a narrow path is usable.

The Bidston Moss Project scored highly under PBRS, being previously developed brownfield land within a residential and business setting close to a school and important routeways. The development of Bidston Moss to community woodland will bring disused sites in to active management and enhance the wider environment. The Forestry Commission aims to continue

to work in partnership with Groundwork Wirral who has been a key delivery partner in the restoration of the former landfill to date. The Forestry Commission and Groundwork will continue to engage with the community groups established over the course of the project so far.

Partners:

Wirral Metropolitan Borough Council, Mersey Waste Disposal Authority and Groundwork Wirral.













Landscape Proposals Option 1

Proposed nature trail interpretation

Proposed viewpoint

Proposed waymarker posts

Proposed sculptural mounding

Scale: 1:5,000 July 2005 Dwg FLA/350/my/01/215. KP northwest









## Project design Option 1

The Bidston Moss Project







View of Stargazer Sculpture



View from Stargazer Sculpture



Aerial Photograph

Scale: NTS August 2005
Dwg FLA/350/my/01/201. KP







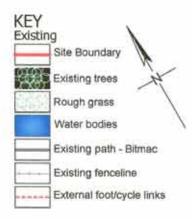
more vegetated.

Photograph outdated.

Bidston Moss now much

Notes:









AND EXTENSIONS Landscape Proposals Bidston Moss - Option 1

Scale: 1:2,500 August 2005

Dwg FLA/350/my/01/216: KP northwest











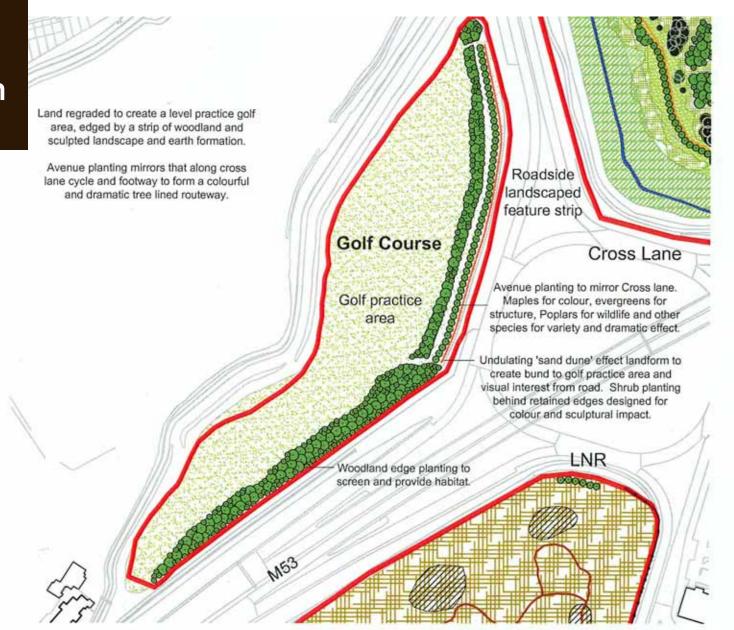






## Project design Option 1

Land adjacent to Bidston Moss Golf Course







Landscape Proposals Golf Course

Scale: 1:2,500 August 2005 Dwg FLA/350/my/01/209. KP



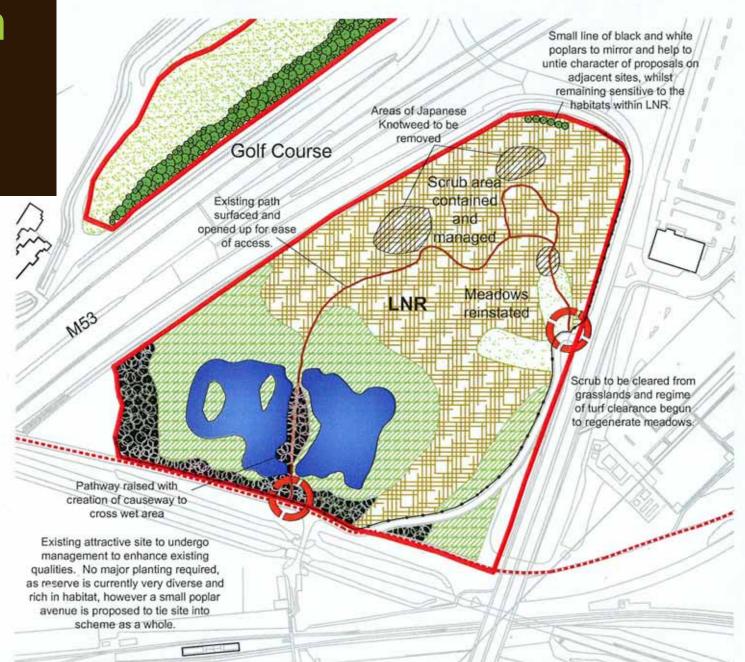


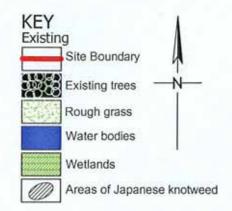




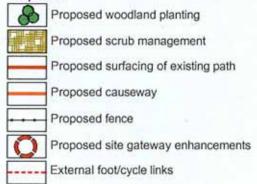
## Project design Option 1

**Bidston Local Nature** Reserve





#### Proposed

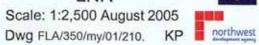




AND EXTENSIONS

Landscape Proposals LNR

Scale: 1:2,500 August 2005











#### Cost estimates Reclamation and establishment Option 1

Α	Fishing Lake Developments	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
1	Prelims	1	item	£1,500.00	£1,500		£1,500
2	removal of ex. Post & rail fence & gate	190	lin m	£3.50	£665		£665
3	bankside engineering works	1	item	£16,000.00	£16,000		£16,000
4	new footpaths	314	m²	£15.00	£4,710		£4,710
5	fishing pegs (x 15)	15	no	£750.00	£11,250		£11,250
6	woodland planting	2300	m²	£0.50	£1,150		£1,150
7	marginal planting	490	m²	£8.00	£3,920		£3,920
8	boardwalks	240	m²	£40.00	£9,600		£9,600
9	extension / improvement of education pond	1	item	£3,500.00	£3,500		£3,500
10	Community Projects Supporting Capital Investment					£15,389	£15,389
	Sub Total				£52,295	£15,389	£67,684

В	Mountain Terrain Bike Tracks and other track improvements:	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
1	Prelims	1	item	£500	£500		£500
2	Upgrading and repair work to existing tracks - herbicide spray, MOT to fill depressions, 25mm gritstone wearing course; binder to tar & chip areas	6882	m²	£2.88	£19,820		£19,820
3	perimeter race track starting zone	1	item	£3,500	£3,500		£3,500
4	new sections of single track MTB tracks	1491	lin m	£15	£22,365		£22,365
5	Community Projects Supporting Capital Investment				£-	£15,389	£15,389
	Sub Total				£46,185	£15,389	£61,574

С	Entrance area developments	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
1	Prelims	£1	item	£2,000	£2,000		£2,000
2	rendered block walling	£35	lin m	£500	£17,500		£17,500
3	gabion walling	£35	lin m	£100	£3,500		£3,500
4	access control system	£1	item	£4,000	£4,000		£4,000
5	softworks	£100	item	£55	£5,500		£5,500
6	hard works to footways	£260	m²	£32	£8,320		£8,320
	Sub Total				£40,820		£40,820

D	Health trail	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
1	Prelims	1	item	£500	£500		£500
2	installation of fitness / activity equipment at 200 lin m centres around perimeter track	10	no	£850	£8,500		£8,500
3	Community Projects Supporting Capital Investment					£15,389	£15,389
	Sub Total				£9,000	£15,389	£24,389

Е	Site furnishing	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
1	Prelims	1	item	£2,000	£2,000		£2,000
2	removal of existing old seats	6	no	£50	£300		£300
3	removal of existing windbreak fencing	437	lin m	£5	£2,185		£2,185

4	removal of existing waymarkers	1	item	£500	£500		£500
5	Seats	25	no	£600	£15,000		£15,000
6	Directional signs	12	no	£600	£7,200		£7,200
7	Information Display boards	6	no	£600	£3,600		£3,600
8	Entrances - main info boards	2	no	£2,000	£4,000		£4,000
9	Route markers	25	no	£320	£8,000		£8,000
	Sub Total				£42,785	£0	£42,785
	Contract Management of elements A to E				£28,123		£28,123
	Total Reclamation Phase				£191,085		£237,252

F	Phase IV Establishment Costs	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
1	Total cultivation	3	На	£42,083	£126,249		£126,249
2	Woodland planting mix	3	На	£715		£2,145	£2,145
3	Heavy standards	25	item	£300		£7,500	£7,500
4	Wildflower mix	30000	На	£1.5		£45,000	£45,000
5	Community Projects Supporting Capital Investment					£15,389	£15,389
	Total Establishment Phase				£126,249	£70,034	£196,283

ne Ridston N	Inss Prnie	ct Extention	areas	1 Former	Cross	I ane	Tir

Ref	Description	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
Α	Hard Landscaping						
1	Supply and install perimeter fencing - 1.8m	490	m	£55.55		£27,220	£27,220
2	Supply and install gate to match fencing	1	item	£2,200		£2,200	£2,200
3	Supply and install motorcycle access controls	2	item	£440		£880	£880
4	Supply materials and construct new all terrain cycle track	1,745	m	£16.5		£28,793	£28,793
5	Excavate, supply materials and construct granular footpath with re-cycled topping - 1.5m	604	m	£27.5		£16,610	£16,610
6	Supply and construct culvert in across wetland	1	nr	£2,200		£2,200	£2,200
7	Supply and install entrance signs	2	nr	£660		£1,320	£1,320
8	Supply and install seating	2	nr	£660		£1,320	£1,320
	Sub Total					£80,542	£80,542
В	Soft Landscaping	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
1	Importation of soil for capping of contamination.	44,386	tonnes	£10		£443,860	£443,860
	Sub Total					£443,860	£443,860
	Total Reclamation Phase					£524,402	£524,402

С	Phase IV Establishment Costs	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
1	Meadow grasses	1.01	ha	£15,000		£15,150	£15,150
2	Standard Trees	42	item	£300		£12,600	£12,600
3	Woodland planting mixes	1.4	ha	£715		£1,001	£1,001
4	Wetland planting	1,500	m	£0.55		£825	£825
5	Shrub planting mixes	9000	m²	£2.3		£20,700	£20,700
	Total Estblishment Phase					£50,276	£50,276

#### continued overleaf







## Cost estimates Reclamation and establishment Option 1 continued

#### 2. Land Adjacent to Bidston Golf Course

Ref	Description	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
Α	Hard Landscaping						
1	Supply and install perimeter fencing - 1.8m	30.6	m	£55.55		£1,700	£1,700
2	Supply and install gate to match fencing	1	item	£2,200.00		£2,200	£2,200
3	Excavate, supply materials and construct granular footpath with re-cycled topping - 1.5m	37	m	£27.50			
	0					£1,018	£1,018
	Sub Total					£4,917	£4,917
В	Soft Landscaping	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
1	Strip topsoil and stockpile	1,291	m²	£0.50		£646	£646
2	Create landform on edge of rough golf area	26,819	m²	£0.60		£16,091	£16,091
3	Retaining structures to landform	160	m²	£82.50		£13,200	£13,200
4	Cultivate, seed and prepare areas for meadow grass and rough golf grass establishment	29,717	m²	£1.50		£44,576	£44,576
	Sub Total					£74,512	£74,512
	Total Reclamation Phase					£79,430	£79,430

С	Phase IV Establishment Costs	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
1	Standard Trees	48	nr	£300.00		£14,400	£14,400
2	Woodland planting mixes	0.63	ha	£715.00		£450	£450
3	Shrub planting mix	720	m²	£2.31		£1,663	£1,663
	Total Establishment Phase					£16,514	£16,514

#### 3. Local Nature

Ref	Description	Qty.	Measure	Unit Cost			Total
Α	Reclamation Hard Landscaping				Year 3	Year 4 & 5	Total
1	Repair perimeter fencing	40	m	£11.00		£440	£440
2	Supply and install gate to match fencing	2	item	£1,100.00		£2,200	£2,200
3	Supply and install motorcycle access controls	2	item	£440.00		£880	£880
4	Excavate, supply materials and construct granular footpath with re-cycled topping - 1.5m	423	m	£22.00		£9,306	£9,306
5	Excavate, supply materials and construct granular footpath causeway with re-cycled topping - 1.5m	60	m	£44.00		£2,640	£2,640
6	Supply and install signs and interpretation boards	5	item	£1,650.00		£8,250	£8,250
	Total Reclamation Phase					£23,716	£23,716
В	Establishment Soft Landscaping	Qty.	Measure	Unit Cost	Year 3	Year 4 & 5	Total
1	Path edge clearance	1,852	m²	Day rate		£2,000	£2,000
2	Woody vegetation clearance	1,852	m²	Day rate		£3,000	£3,000
3	Meadow restoration	2,000	m²	Day rate		£3,000	£3,000
4	Japanese knotweed removal - initial visit	1	item	£1,080.00		£1,080	£1,080
5	Japanese knotweed removal - follow up visits	2	item	£770.00		£1,540	£1,540
	i	6	item	£595.00		£3,570	
6	Japanese knotweed removal - on-going visits	ь	пеш	2000.00		20,010	£3,570

	1	<u> </u>				
Total Reclamation and Establishment Capital costs for Bidston Main Landfill						
Tip, Cross Lane Tip, Golf Course & LNR						
Reclamation			Year 2	Year 3	Year 4 & 5	Total
Sunk Reclamation Phase III Costs All areas			#REF!			#REF!
Former Bidston Moss Landfill Site				£191,085	£46,167	£237,252
Former Cross Lane Tip				£0	£524,402	£524,402
Land Adjacent to Bidston Golf Course				£0	£79,430	£79,430
Local Nature Reserve				£-	£23,716	£23,716
Contract Management costs for Partners				£28,123	£-	£28,123
Forestry Commission Staff Time Reclamation				£8,167	£32,669	£40,836
Sub Total Yr 3, 4 & 5 Reclamation Costs				£227,375	£706,384	£933,759
Sub Total All Reclamation Costs						#REF!
Establishment			Year 2	Year 3	Year 4 & 5	Total
Former Bidston Moss Landfill Site				£126,249	£70,034	£196,283
Former Cross Lane Tip				£0	£50,276	£50,276
Land Adjacent to Bidston Golf Course				£0	£16,514	£16,514
Local Nature Reserve				£0	£14,190	£14,190
Forestry Commission Staff Time Establishment				£3,600	£32,400	£36,000
Sub Total All Future Establishment Costs				£129,849	£183,414	£313,263
Total						£1,247,022
Contingency @ 2.5% future Reclamation and				£8,931	£22,245	£31,176
Establishment only						
Total All Future Capital Implementation Costs - Reclamation and Establishment				£366,155	£912,042	£1,278,197







## Cost estimates Bidston Moss Project

			Bidaton M	oss Former Land	Ifill Site Expend	iture Profile <b>O</b> p	tion 1			
Site Name	Phase	Activity	Ne wlanda Business Plan 2002 Est Total	Ne wlanda Buaineaa Plan Average Coat Per Ha	» Sunk Expenditure	Proposed Year 3	Proposed Year 4 & 5	Total Proposed Expenditure & LTM Option 1	Life time Expenditure	Average Actual Coat per Ha
	2	Stage 1 Survey	260,000	£1,500	£14,898	93	93	93	£14,898	£3 <i>7</i> 2
		Stage 2 Survey	100,000	£1,500	£47,350	£1,069	50	£1,069	£48,419	£1,210
	'	Design Planning	£32,000	5800	£15,298	£2,644	50	£2,644	£17,941	£449
Bidaton Mosa		Community Consultation	£36,000	5900	£12,734	£6,553	50	£6,553	£19,287	£482
Former	II	Acquisition & Legal	£50,440	£1,261	£11,305	£8,823	£0	£8,823	£20,128	£503
Landfill Site	III	Reclamation	£840,000	£21,000	£157,640	£227,375	£65,385	£292,760	£450,400	£11,260
40 Ha	IV	Establishment	£256,000	£6,400		£129,849	£89,094	£218,943	£218,943	£5,474
l	٧	Long Term Management	£662,680	£16,567		50	£0	£662,680	£662,680	£16,567
l		*Contingency 2.5%				£8,931	£3,8 <b>6</b> 2	£12,793	£12,793	£320
		Total	£1,937,120	£48,428	£259,225	£385,244	£158,340	£1,206,264	£1,465,489	£36,637

\*Contingency applies only to Reclamation and Establishment phase and not to sunk costs or Annual Management Payments
\*\*Sunk Expenditure as of 30th September 2005

					<u> </u>					
Site Name	Phase	Activity	Ne wianda Business Plan 2002 Est Total	Ne wlanda Buaineaa Plan Average Coat Per Ha	»»» Sunk Expenditure	Proposed Year 3	Proposed Year 4 & 5	Total Proposed Expenditure & LTM Option 1	Life time Expenditure	Average Actual Coat per Ha
	7	Stage 1 Survey	£42,000	£1,500	£10,429	20	93	20	£10,429	£372
		Stage 2 Survey	142,000	£1,300	£33,145	20	£749	£749	£33,893	£1,210
	'	Design Planning	£22,400	€800	£10,708	93	£1,850	£1,850	£12,559	£449
		Community Consultation	£25,200	£900	£8,914	50	£4,587	£4,587	£13,501	£482
Bidaton Mosa	II	Acquisition & Legal	£35,308	£1,261	£7,913	£1,235	£4,941	£6,176	£14,090	£503
Extensions 28 Ha	III	Reclamation	£588,000	£21,000	50	92	£640,999	£640,999	£640,999	£22,893
	IV	Establishment	£179,200	£6,400	93	92	£94,320	£94,320	£94,320	£3,369
	٧	Long Term Management	£463,876	£16,567	50	93		£463,876	£463,876	£16,567
		""Contingency 2.5%				93	£18,383	£18,383	£18,383	£657
		Total	£1,355,984	£48,428	£71,109	£1,235	£765,829	£1,230,940	£1,302,049	£46,502
					•					
Extension are:	as are to	be brought forward only whe	n legal agreements	are secured						

<sup>&</sup>quot; Sunk Expenditure as of 30th September 2005







#### Cost estimates Bidston Moss Project Options Analysis

68Ha III Reclamation £1,428,000 £21,000 £157,640 £227,375 £706,384 £933,759 £1,091,399 £16,050 IV Establishment £435,200 £6,400 £129,849 £183,414 £313,263 £313,263 £4,607 V Long Term Management £1,126,556 £16,567 £1,126,556 £1,126,556 £16,567 £22,245 £31,176 £31,176 £458				The Bids	iton Moss Projec	t Expenditure	Profile Option 1				
Stage 2 Survey	Site Name	Phase	Activity	Buaineaa Plan	Buaineaa Plan Average Coat				Expenditure &		Actual Cost
Stage 2 Survey			Stage 1 Survey	6402.000	64 500	£25,327	(			£25,327	£372
Community Consultation   £61,200   £900   £21,648   £6,553   £4,587   £11,140   £32,788   £482     II   Acquisition & Legal   £85,748   £1,261   £19,218   £10,059   £4,941   £14,999   £34,218   £503     III   Reclamation   £1,428,000   £21,000   £157,640   £227,375   £706,384   £933,759   £1,091,399   £16,050     IV   Establishment   £435,200   £6,400   £129,849   £183,414   £313,263   £313,263   £4,607     V   Long Term Management   £1,126,556   £16,567   £1,126,556   £1,126,556   £16,567     Contingency 2.5%   £8,931   £22,245   £31,176   £31,176   £458			Stage 2 Survey	£ 102,000	£1,300	£80,495	£1,069	£749	£1,818	£82,313	£1,210
The Bidston   Moss Project   68 Ha	The Bidaton	'	Design Planning	£54,400	£800	£26,006	£2,644	£1,850	£4,494	£30,500	£449
Moss Project 68 Ha			Community Consultation	£61,200	2900	£21,648	£6,553	£4,587	£11,140	£32,788	£482
68Ha III Reclamation £1,428,000 £21,000 £157,640 £227,375 £706,384 £933,759 £1,091,399 £16,050 IV Establishment £435,200 £6,400 £129,849 £183,414 £313,263 £313,263 £4,607 V Long Term Management £1,126,556 £16,567 £1,126,556 £1,126,556 £16,567 £22,245 £31,176 £31,176 £458		II	Acquisition & Legal	£85,748	£1,261	£19,218	£10,059	£4,941	£14,999	£34,218	£503
V         Long Term Management         £1,126,556         £16,567         £1,126,556         £1,126,556         £16,567           "Contingency 2.5%         £8,931         £22,245         £31,176         £31,176         £458	Moss Project 68 Ha	III	Reclamation	£1,428,000	£21,000	£157,640	£227,375	£706,384	£933,759	£1,091,399	£16,050
*Contingency 2.5% £8,931 £22,245 £31,176 £31,176 £458		IV	Establishment	£435,200	£6,400		£129,849	£183,414	£313,2 <b>6</b> 3	£313,263	£4,607
		٧	Long Term Management	£1,126,556	£16,567				£1,126,556	£1,126,556	£16,567
Total £3,293,104 £48,428 £330,334 £386,479 £924,169 £2,437,204 £2,767,538 £40,699			*Contingency 2.5%			E	£8,931	£22,245	£31,176	£31,176	£458
			Total	£3,293,104	£48,428	£330,334	£386,479	£924,169	£2,437,204	£2,767,538	£40,699
	'Contingency ap	oplies only	to Reclamation and Estab	lishment phase an	d not to sunk cos	ls or Annaul Ma	nagement Paym	ents			
Contingency applies only to Reclamation and Establishment phase and not to sunk costs or Annaul Management Payments	" Sunk Expend	iture as of	30th September 2005								

		Ţ	he Bidaton Moaa P	roject Optiona Ana	alya ia		
Site Na me	Phase	Activity	*Lifetime Expenditure Option 1	*Life time Expenditure Option 2	**Lifetime Expenditure Option 3	***Life time Expenditure Option 4	AAAA Life time Expenditure Option 5
		Stage 1 Survey	£25,327	£25,327	£25,327	£25,327	£14,898
	1	Stage 2 Survey	£82,313	£82,311	£80,495	£82,313	£48,419
Bidaton Mosa 68 Ha		Design Planning	£30,500	£30,500	£26,006	£30,500	£17,941
		Community Consultation	£32,788	£32,788	£21,648	£32,788	£19,287
	II	Acquisition & Legal	£34,218	£34,218	£19,218	£34,218	£20,128
	III	Reclamation	£1,091,399	£1,312,954	£157,640	£1,091,398	£447,036
	IV	Establishment	£313,2 <b>6</b> 3	£313,2 <b>6</b> 3		£313,2 <b>6</b> 3	£217,459
	V	Long Term Management	£1,126,556	£1,126,556		£1,126,556	£662,680
		*Contingency 2.5%	£31,176	£36,714		£31,175	£18,338
		Total	£2,767,538	£2,994,631	£330,334	£2,767,538	£1,466,187

NB \* Lifetime expenditure totals for 0 ptions 1& 2 are based on intelligence and cost estimates from the Bidston Moss Design Team (Groundwork & Forestry Commission)

NB ""O ption 3 reflects sunk expenditure only and no further cost to the NWDA

NB \*\*\*O ption 4 reflects costings if the project is delivered by the private sector but this option has not been promoted by that sector

NB \*\*\*\*\*Option 5 reflects the regeneration of the former Bidston Moss Landfill site only







## **Artists impressions**

#### Entrance to former Bidston Moss Landfill at materials recycling facility



#### Fishing lake developments

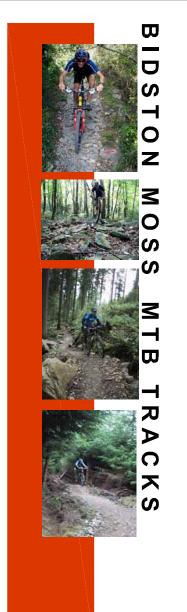


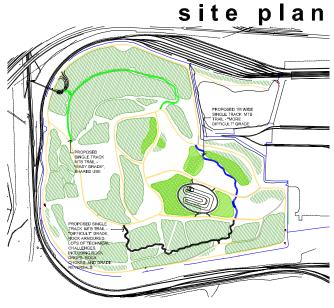






### **Design aspiration**





#### **Bidston Moss Regional Centre for Cycling: Mountain Bike Tracks**

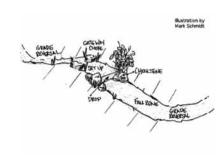
The concept of Bidston Moss becoming a Regional Centre for Cycling for the Northwest relies on being able to provide for all popular forms of cycling on the site to some extent. The existing network of tracks, which are all 3m wide and surfaced with stone, do not offer sufficient technical challenges for mountain biking. They also have a lack of connectivity, forcing riders down to the perimeter track or to go off route through undesignated areas, risking environmental damage. It is not intended that the site becomes a major destination for experienced mountain bikers, but that it has sufficient opportunities to enable skills training and practice for all levels, and particularly to support the development of sports programmes within

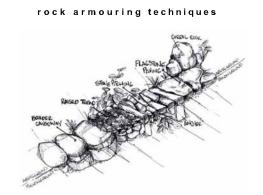
The proposals are for three sections of mountain bike track, each designed for different levels of rider ability, from 'Easy' to 'Difficult'. They will improve the connectivity of the existing network of tracks, and reduce the liklihood of cyclists going off-route through areas of woodland. They will also reduce the need formountain bike riders to go around the perimeter track. The tracks will be constructed with rock armouring and raised tread construction techniques where appropriate. Flatter sections may be a fine stone ('inch to dust') surface. All tracks will be restricted to 1m wide, and be designed to have minimal impact upon the landscape and ecology of the site. Track construction will be with the involvement of expert track builders, local mountain bike enthusiasts and local volunteers. The tracks will be constructed in accordance with industry standards and codes of practice, and use recycled materials for base courses and wearing courses where possible.

Local club Wirral Tracs have been involved in detailed consultation to take designs to this stage. They will be a key user and beneficiary of the works and will be involved in future design development and implementation.

#### mountain bike track design -technical details







raised tread construction







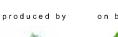


twists and turns













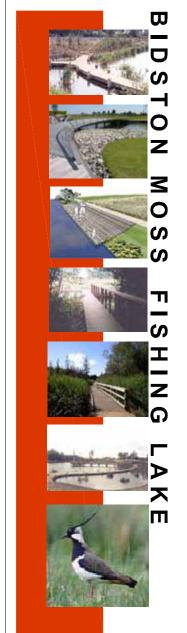
BM35\_02 - May 2005







### **Design aspiration**





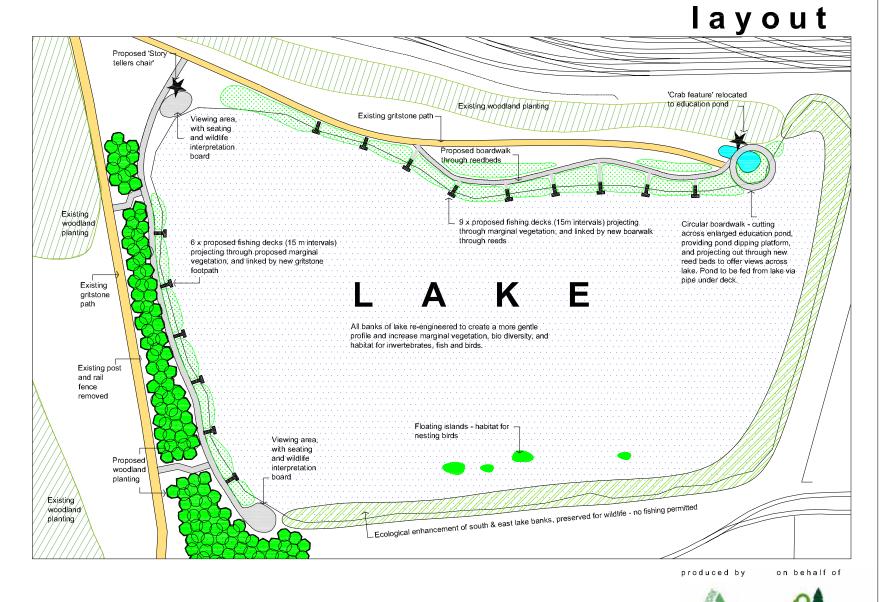
#### Fishing Lake Proposals

These proposals are designed to improve the potential for fishing of the lake, in balance with ecological and aesthetic improvements to the lake margins.

Located at the eastern edge of Bidston Moss adjacent to the in filled Bidston Dock, the 3 hectare lake was itself part of the docks infrastructure. Consequently, the lake retains the characteristics of its past as a deep, steep sided rectangular body of water. Informal use of the lake for fishing indicates some have already recognised its potential, and there are already a number of species of fish. Following the consultation with MWDA, AWAC, MBW Rangers, and FC, unlocking the potential of fishing at Bidston is seen here as a key development opportunity which could significantly increase the recreational benefits of the site to the local community in Bidston, and also draw people to the site from further afield.

The proposals identified here comprise:

- re-engineering of lake banks to create more gentle, shelving profiles, encouraging more marginal vegetation, improved habitat and softer, more attractive lake edges
- segregation of southern and eastern sides for wildlife, and restriction of public access and fishing to these areas
- creation of formalised fishing pegs on northern and western sides, using decks constructed in recycled plastic and located within reed beds
- provision of improved access to northern and western lakesides
- improvements to education pond, relocation here of 'crab' art feature (formerly at site entrance), and construction of circular feature boardwalk providing improved pond dipping access



Forestry Commission BM35\_04 - May 2005





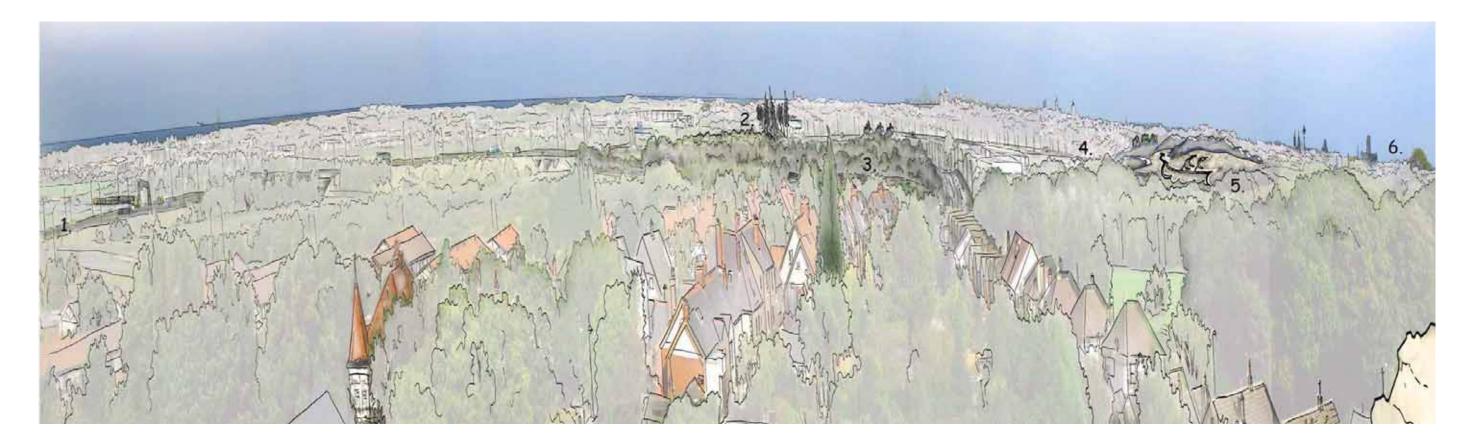


# Artists impression View of the Bidston Moss Project from Bidston Village

The project will create a dramatic arrival and departure for Liverpool and Bidston as well as providing community facilities, links to the rich history of the area and numerous new and restored habitats.

- 1. M53 taking people to Bidston Moss
- 2. Distinctive tree avenues on Cross Lane Tip and Golf Course

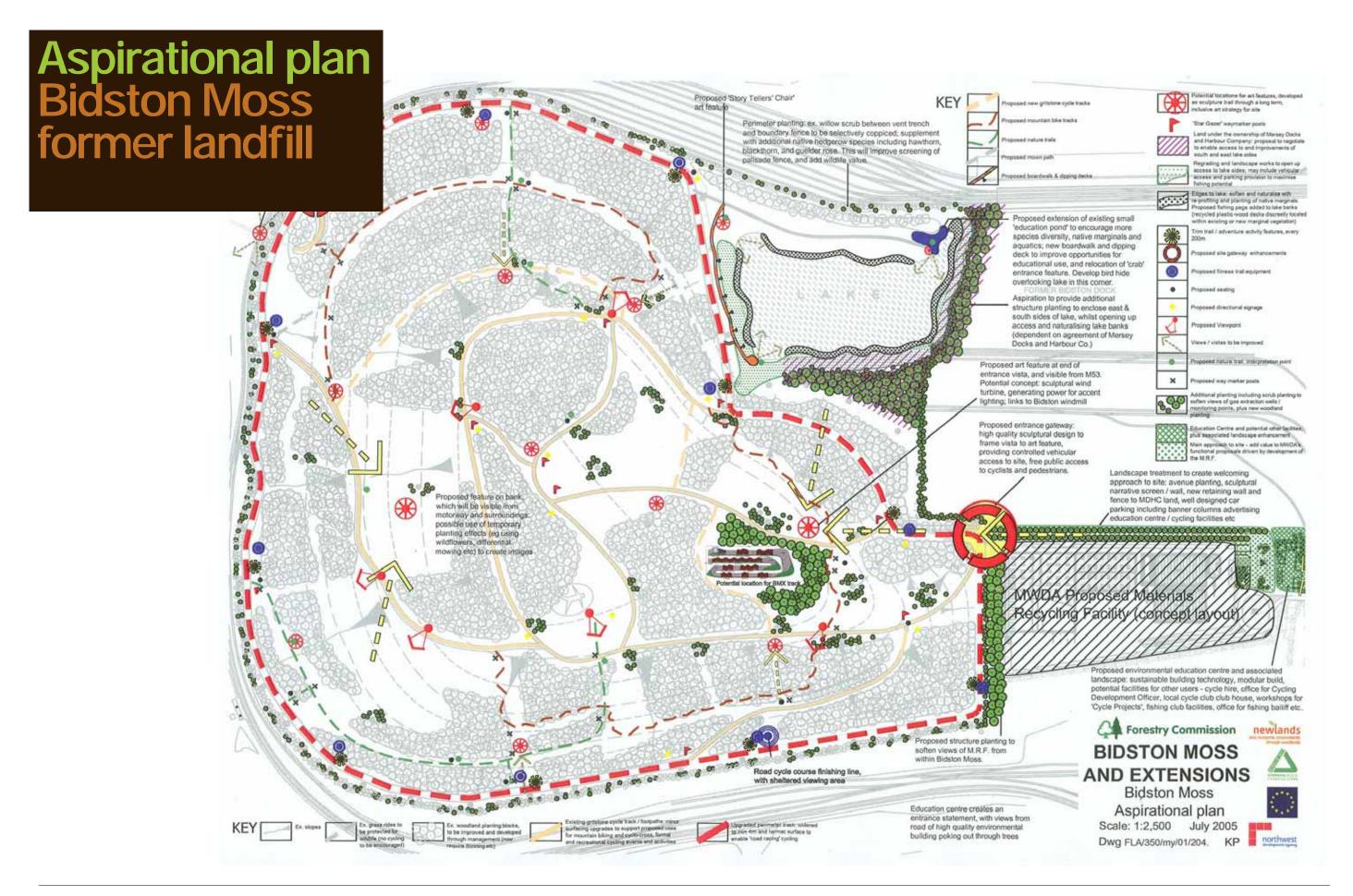
- Distinctive tree avenues on Cross Lane Tip and Goil Course
   Managed nature reserve (LNR)
   Pedestrian bridge link to Bidston Moss from under flyover
   Eye catching illustration on bare hillside of Moss (indicative)
   Liverpool skyline visible from top of Bidston Moss

















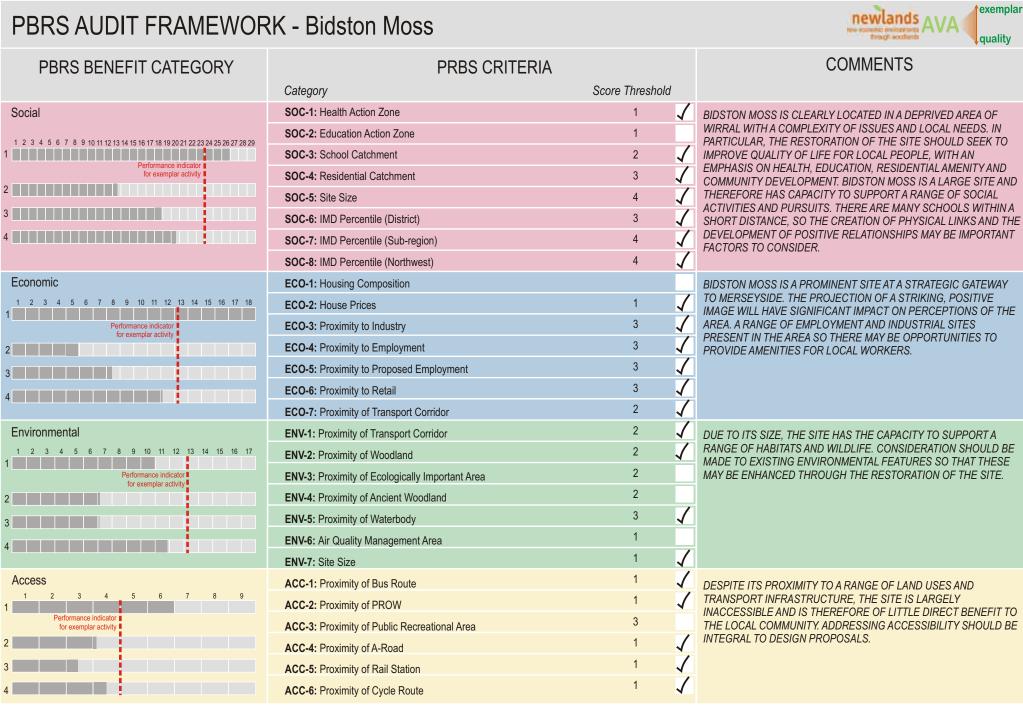








#### Additional Value Assessment (AVA)

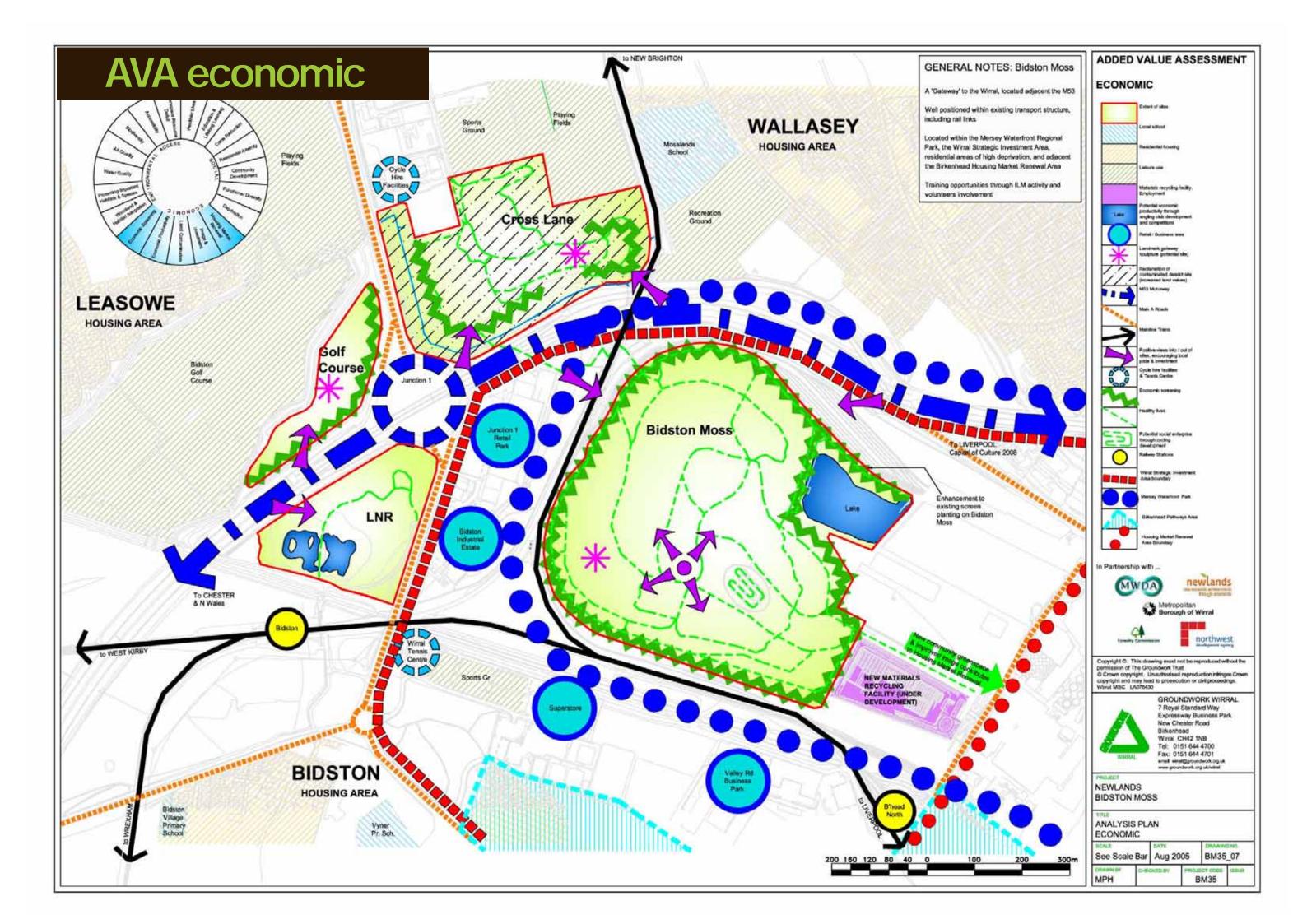


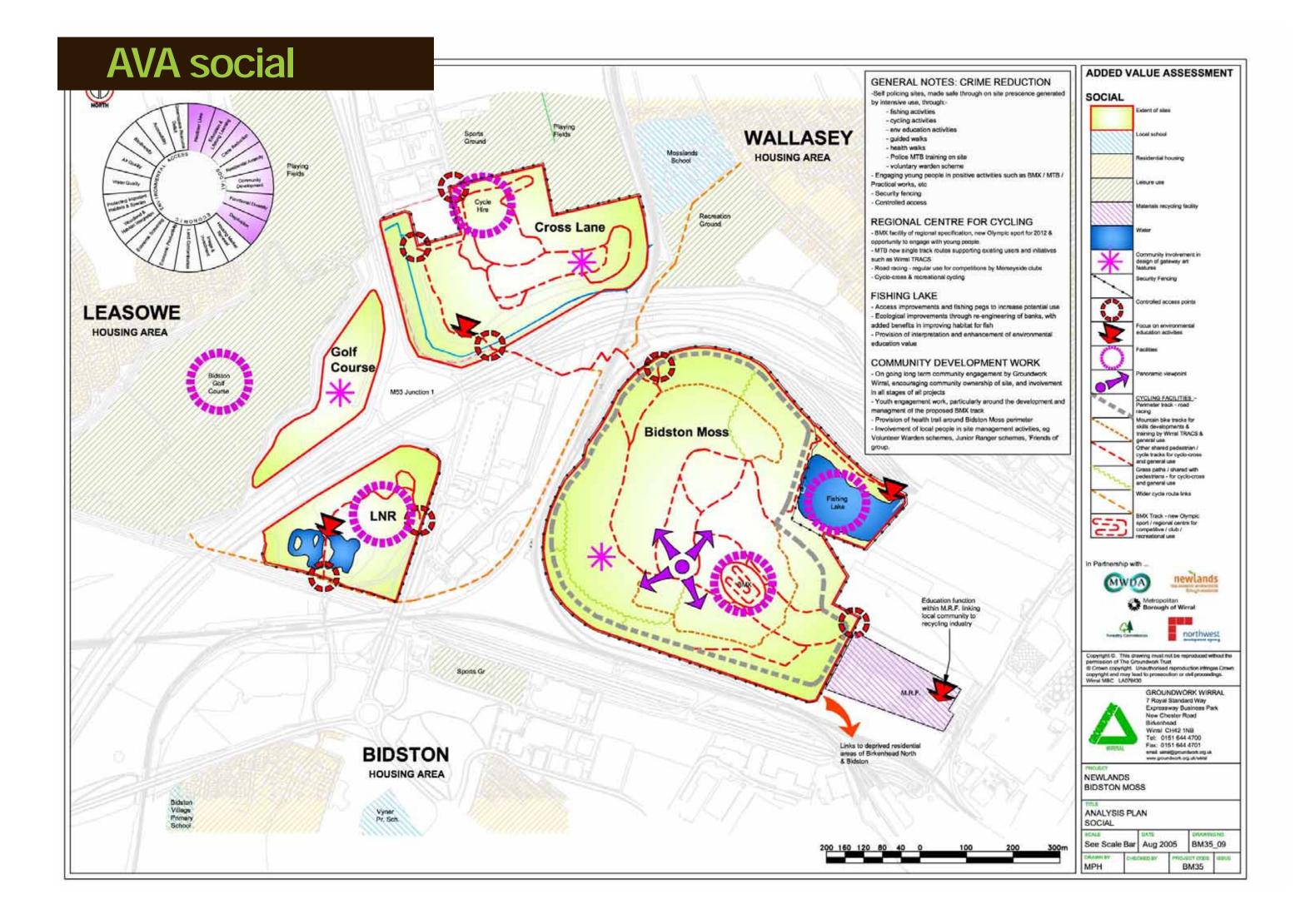


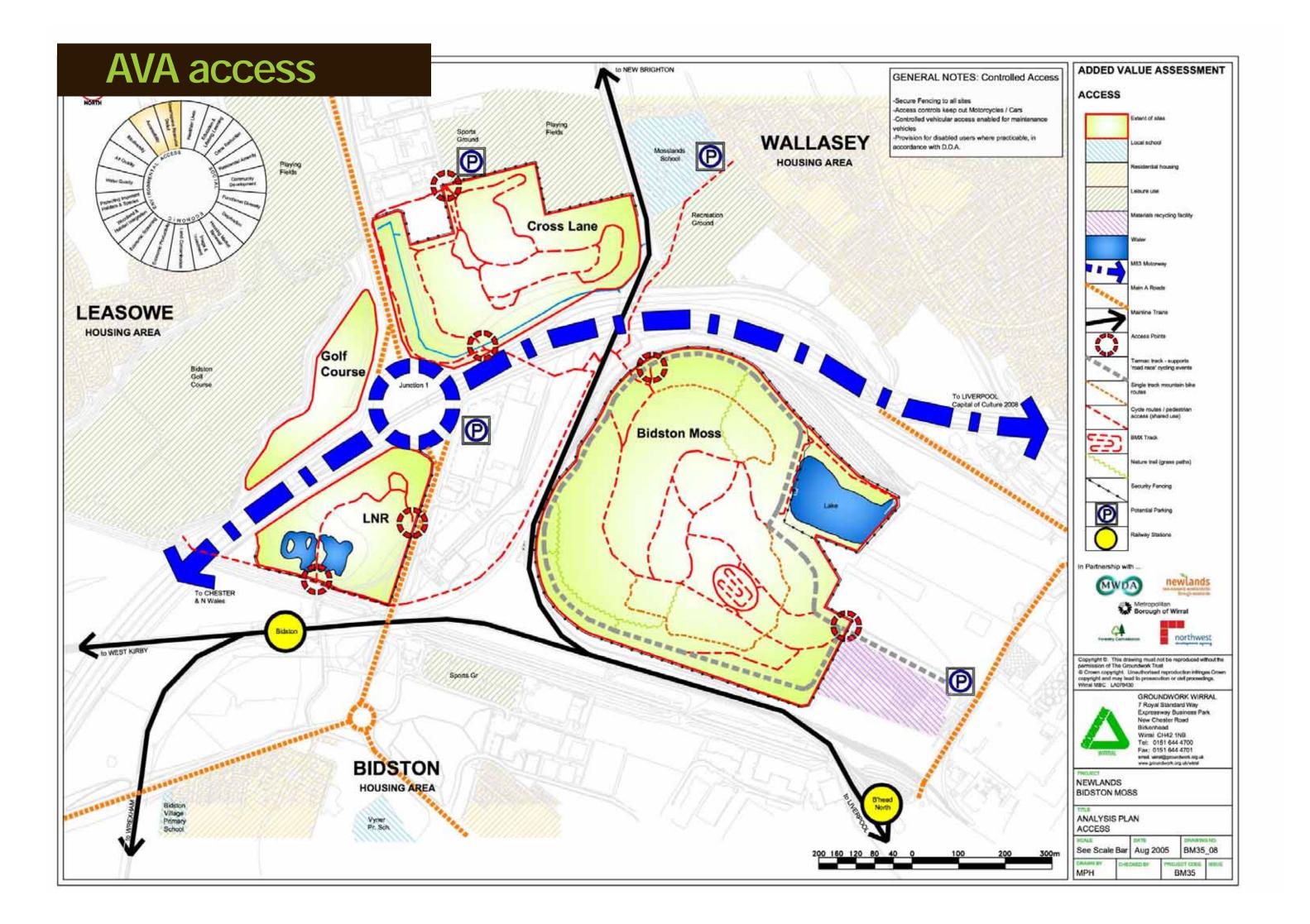


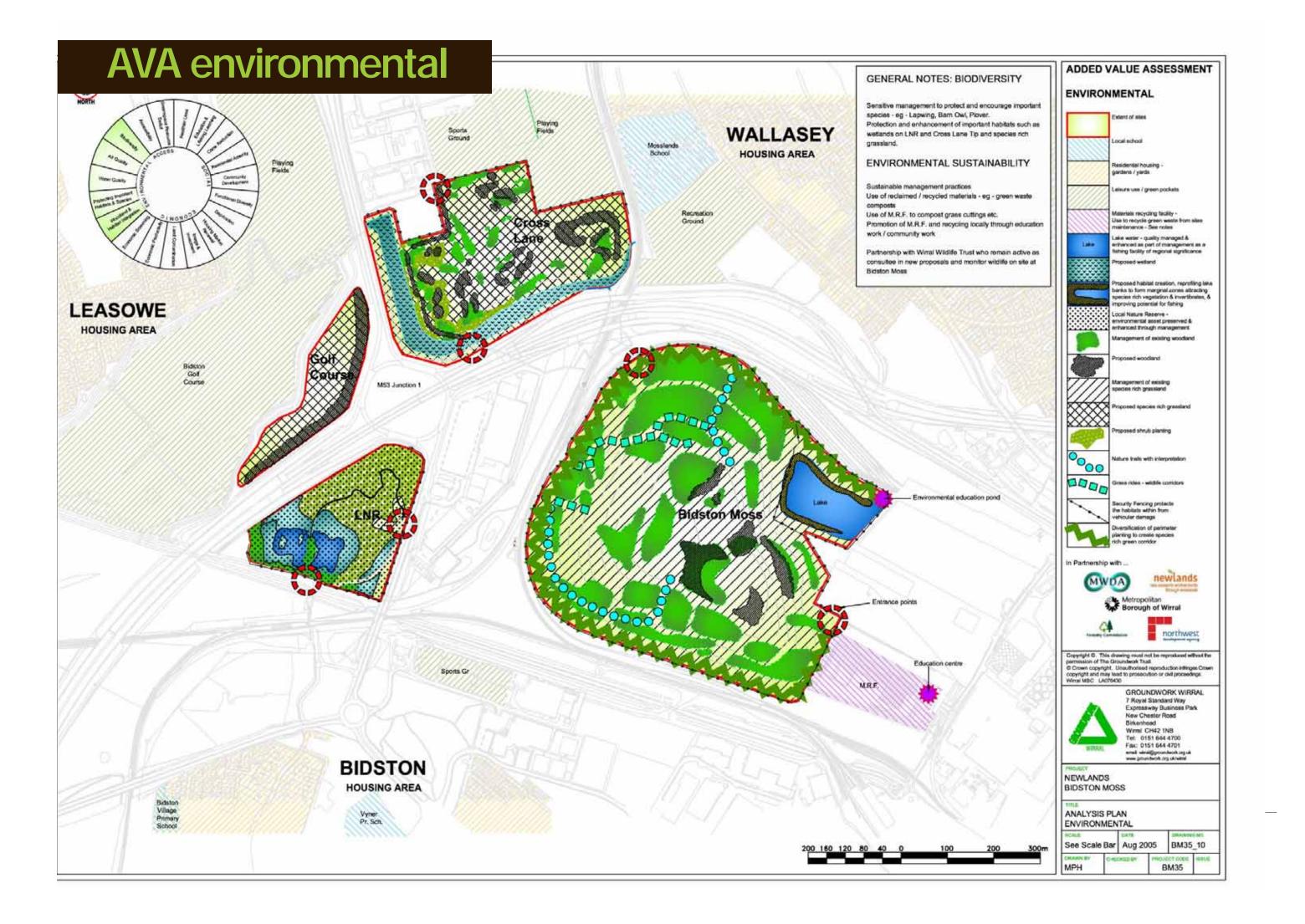












## **Project partners**



redroseforest

MERSEY BASIN CAMPAIGN

**community**forests**northwest** 



















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