



**SANKEY
NOW**

DATE DUE

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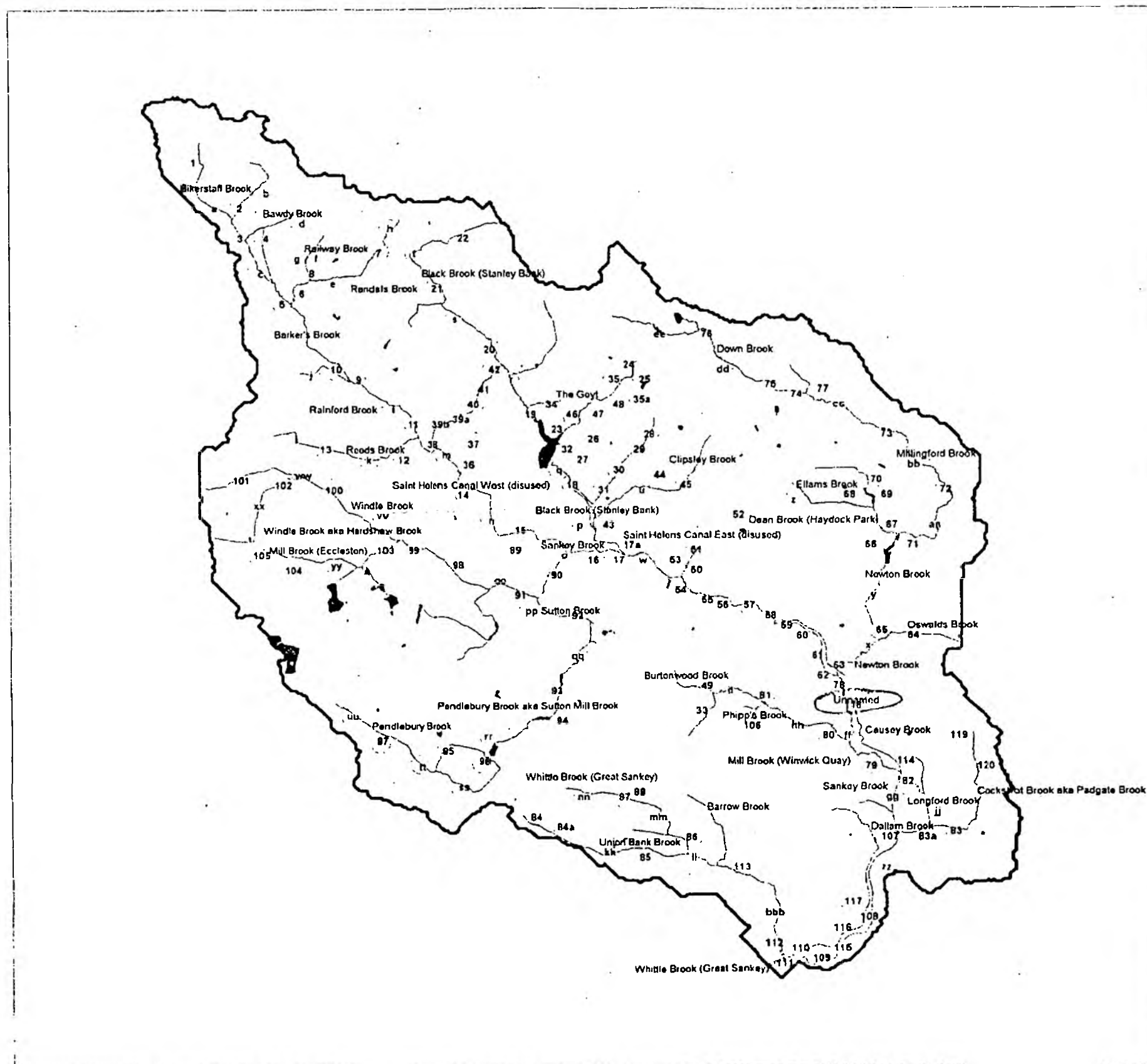
NORTH WEST REGION
Richard Fairclough House
Knutsford Road
Warrington WA4 1HG

ENVIRONMENT AGENCY
077789

Sankey NOW Natural Assets Register

Figure 2.1	Location Plan	Figure 7.7a	Bankface Ecological Diversity
Figure 2.2	Context	Figure 7.8	Banktop Vegetation Diversity
Figure 2.3	Relationship to Urban Areas	Figure 7.8a	Banktop Ecological Diversity
Figure 3.1	Catchment Landscape Areas	Figure 7.9	Extent of Bank Resectioning
Figure 3.2	Macro Landscape Character	Figure 7.10	Extent of Bank Reinforcement
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Figure 6.4	Water Quality	Figure 10.2	Burtonwood and Lower Newton Brook Action Plan
Figure 7.1	Distribution and Extent of Rapids	Figure 10.3	Warrington (Sankey Brook) Action Plan
Figure 7.2	Distribution and Extent of Riffles	Figure 10.4	Rainford Brook Action Plan
Figure 7.3	Distribution and Extent of Glides	Figure 10.5	Stanley bank Local Nature Reserve and A580 Action Plan
Figure 7.4	Distribution of Choked Channels	Figure 10.6	Cloghe Brook and Sankey Brook Action Plan
Figure 7.5	Bankside Tree Distribution	Figure 10.7	Sutton Brook Action Plan
Figure 7.6	Location of RHS Sites with Associated Tree Features		
Figure 7.7	Bankface Vegetation Diversity		

Unavailable



Key and Notes

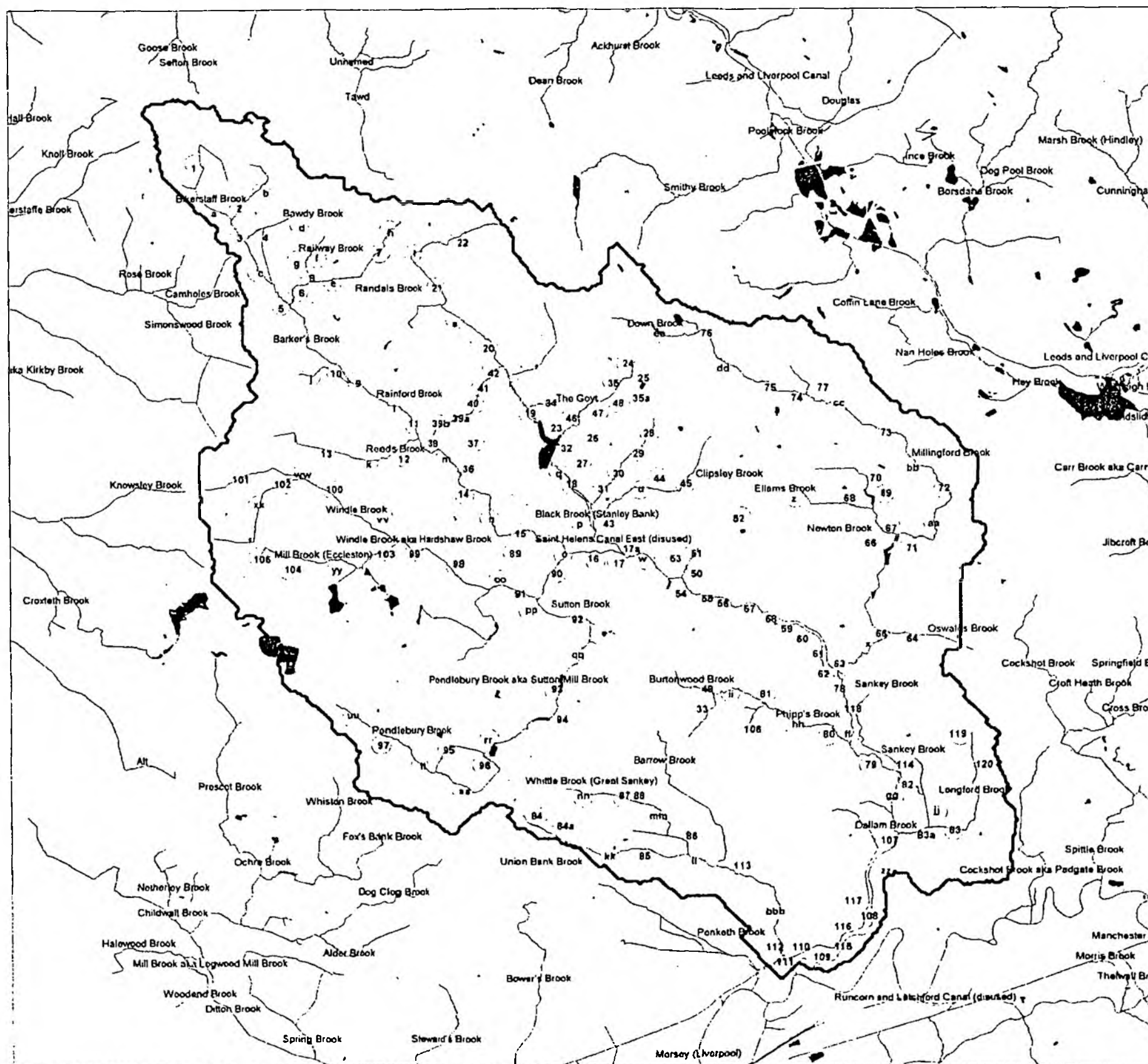
- 1 Numbered circles - RHS Sections
- a Lettered circles - Inter-reach Sections
- Sankey Catchment Boundary



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Title
Figure 2 : /
River Habitat Survey
Location Plan

Drawing Number: ~~xxxxxxx~~
Scale: 1:100,000
Date: 20/04/98



Key and Notes

- 1. Numbered circles - RHS Sections
- a. Lettered circles - Inter-reach Sections
- Sankey Catchment Boundary

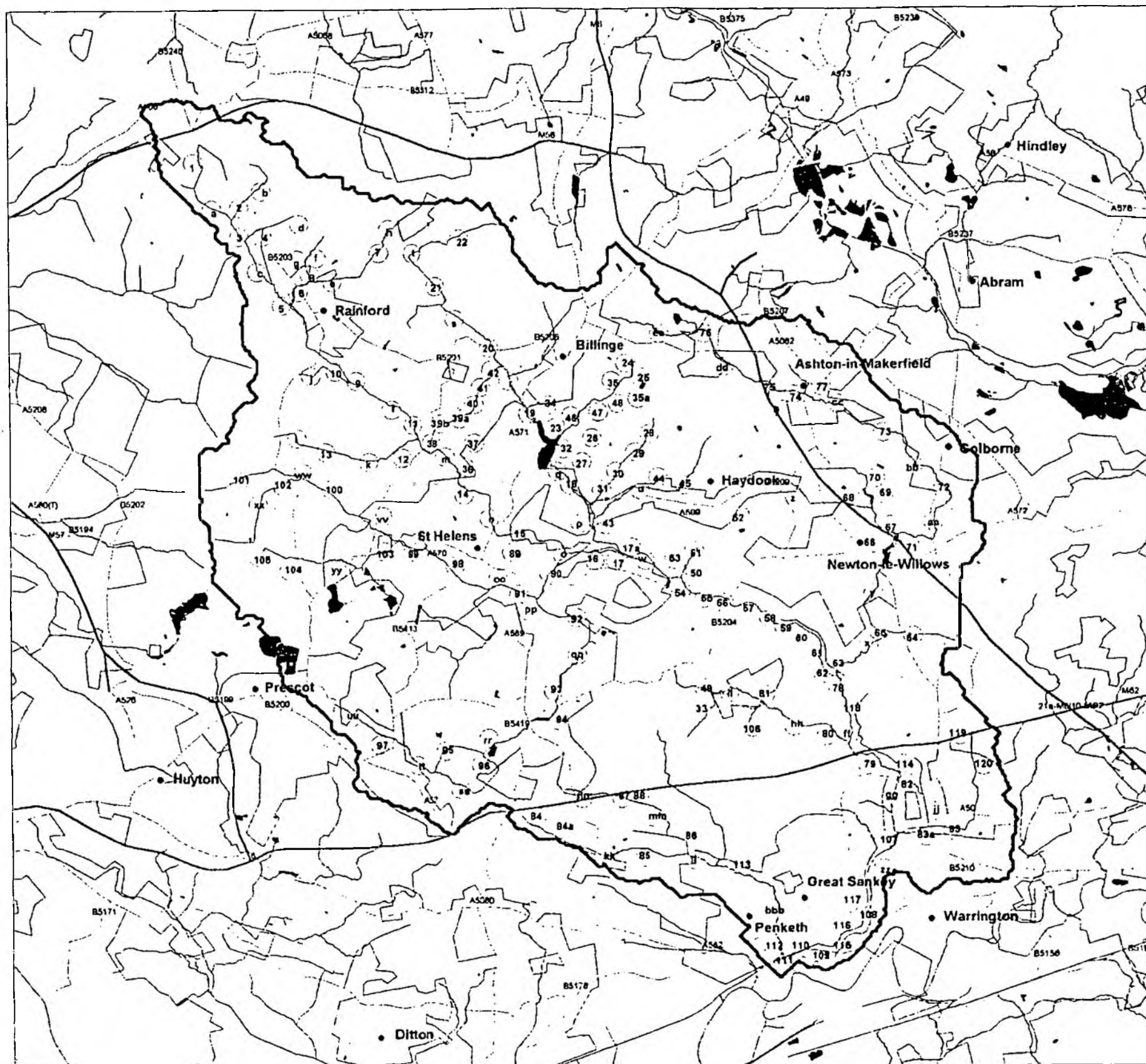
FIGURE NO
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Title *SANKEY-01*
Figure 2.2
The Sankey Catchment - Context

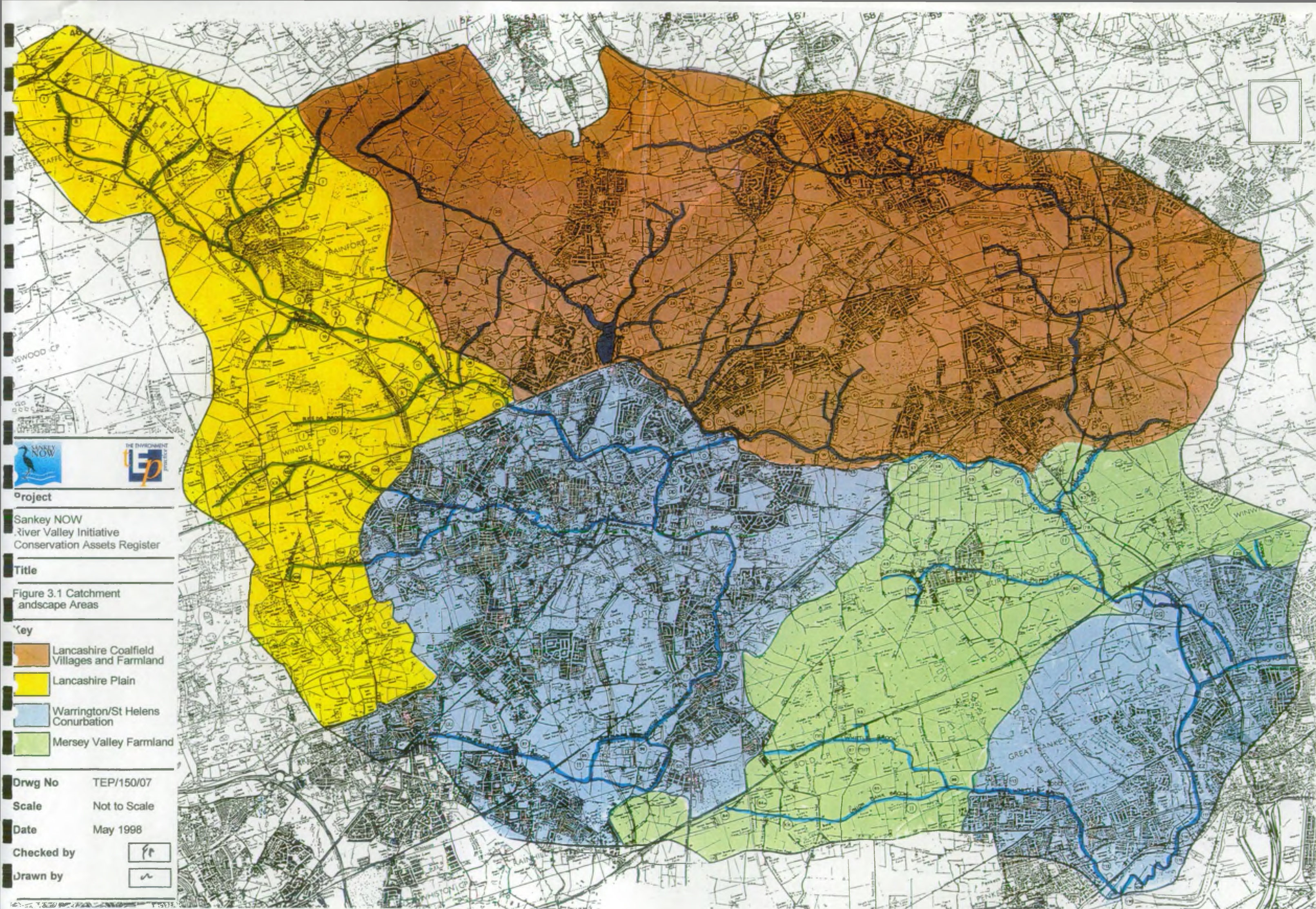
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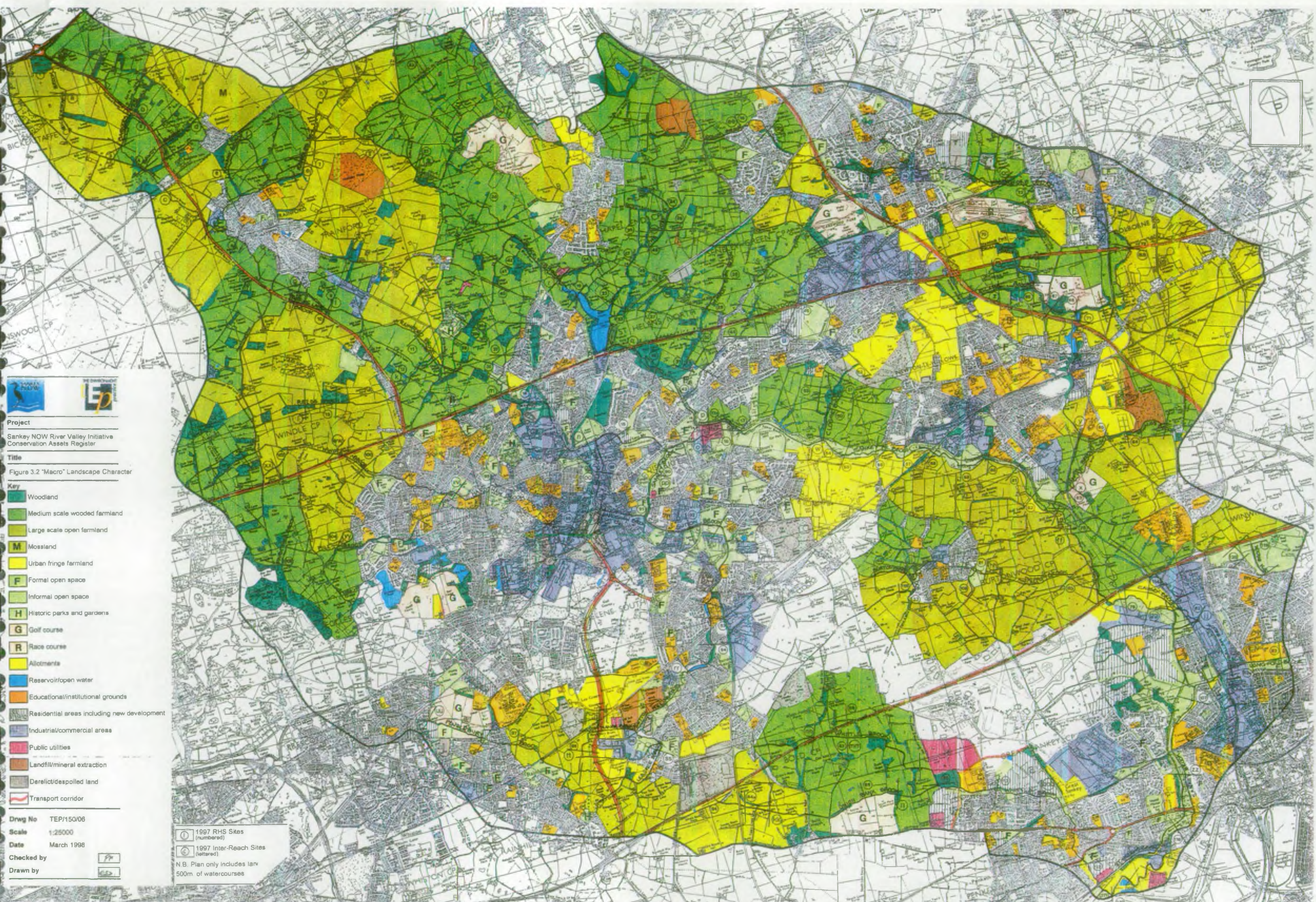


Key and Notes	
①	Numbered circles = RHS Sections
Ⓐ	Lettered circles = Inter-reach Sections
●	Towns
—	Sankey Catchment Boundary
—	Motorways
—	A Roads
—	B Roads
◻	Urban Areas

DRAWING No
FIGURE No

 	
Project Sankey NOW River Valley Initiative Conservation Assets Register	
Title <i>SANKEY-02</i>	
Figure 2.3 The Sankey Catchment Relationship to Urban Areas	
Drawing Number: <i>xxxxxxx</i>	
Scale: 1:100,000	
Date: 20/04/98	





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Title

Figure 3.2 "Macro" Landscape Character

Key

- Woodland
- Medium scale wooded farmland
- Large scale open farmland
- Mossland
- Urban fringe farmland
- F Formal open space
- I Informal open space
- H Historic parks and gardens
- G Golf course
- R Race course
- Alotments
- Reservoir/open water
- Educational/institutional grounds
- Residential areas including new development
- Industrial/commercial areas
- Public utilities
- Landfill/mineral extraction
- Derelict/despoiled land
- Transport corridor

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Scale 1:25000

Date March 1998

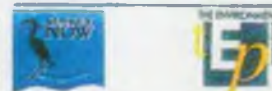
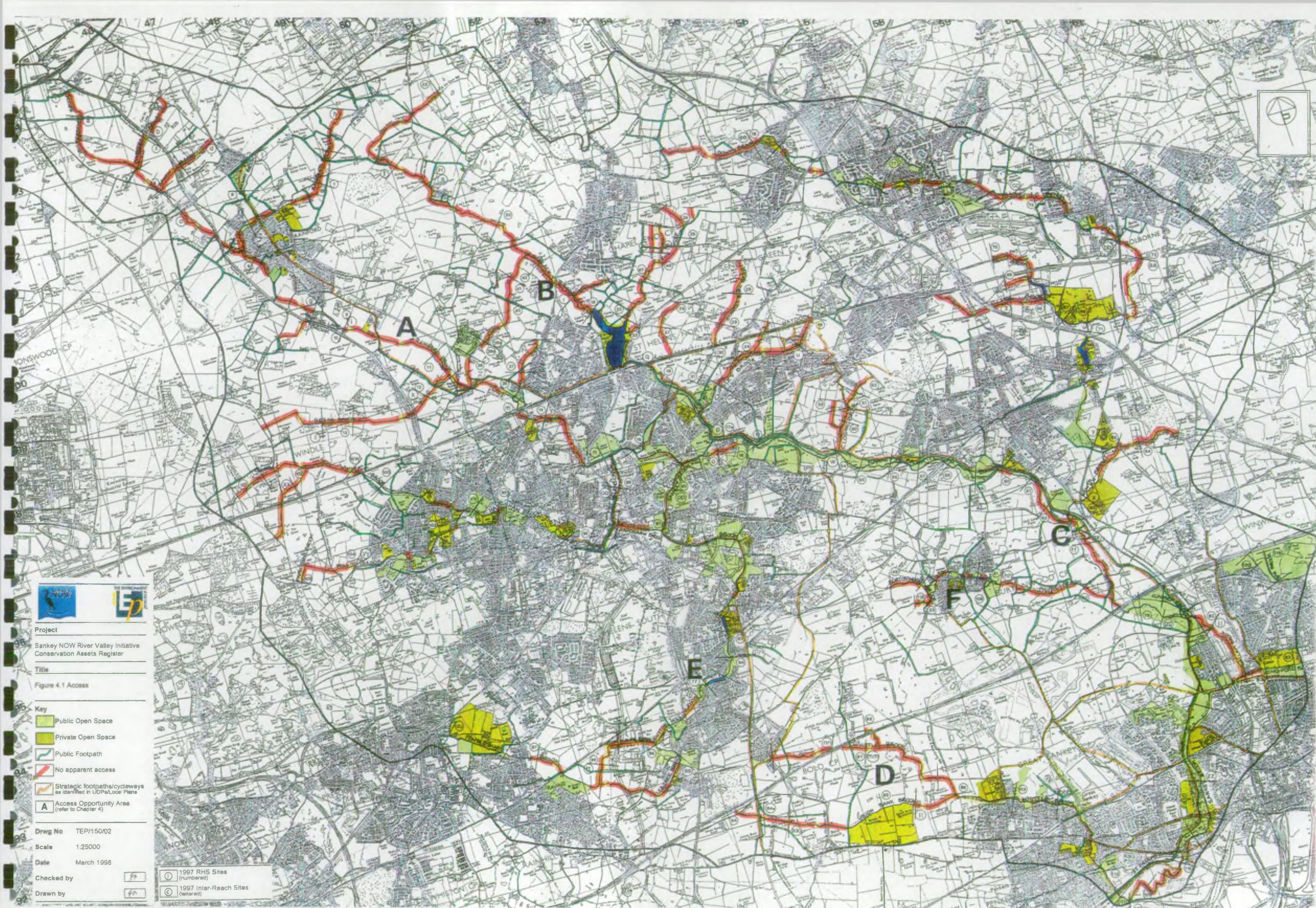
Checked by

Drawn by

1997 RHS Sites
(numbered)

1997 Inter-Reach Sites
(lettered)

N.B. Plan only includes land
500m of watercourses



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Sankey NOW River Valley Initiative
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Title
Figure 4.1 Access

- Key
- Public Open Space
 - Private Open Space
 - Public Footpath
 - No apparent access
 - Strategic footpaths/cycleways as identified in UDPA/Local Plans
 - Access Opportunity Area (refer to Chapter 4)

Drwg No TEP/150/02

Scale 1:25000

Date March 1998

Checked by

Drawn by

- 1997 RHS Sites (numbered)
- 1997 Inter-Reach Sites (lettered)



Project
Lancashire NOW River Valley Initiative
Conservation Assets Register

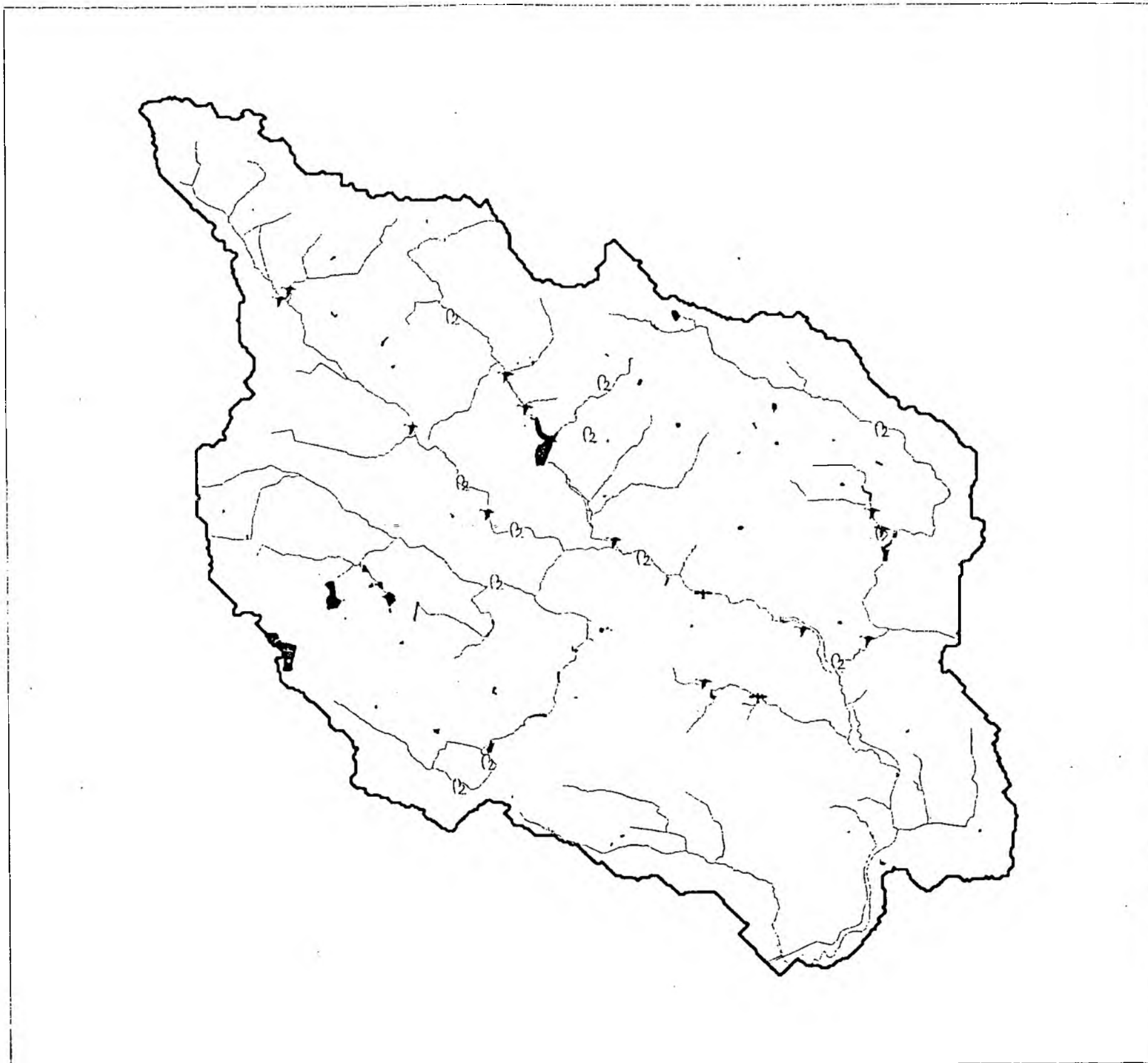
Title
Figure 5.1
Future Conservation Designations

- Key
- SSSI
 - SCW/SINC
 - RIGS
 - Potential Areas for Designation
(refer to Chapters 7 & 8)

i.e. Plan only indicates sites within
15m. of watercourses

Drawn by
Checked by
Date
Scale
1:25000
March 1998
TWP/150/04

- 1997 RHS Sites
(numbered)
- 1997 Inter-Reach Sites
(numbered)



Key and Notes

KEY SPECIES



- Dragon/Damselfly (12)
- Grey Wagtail (5)
- ▴ Grey Heron (12)
- ✕ Kestrel (2)

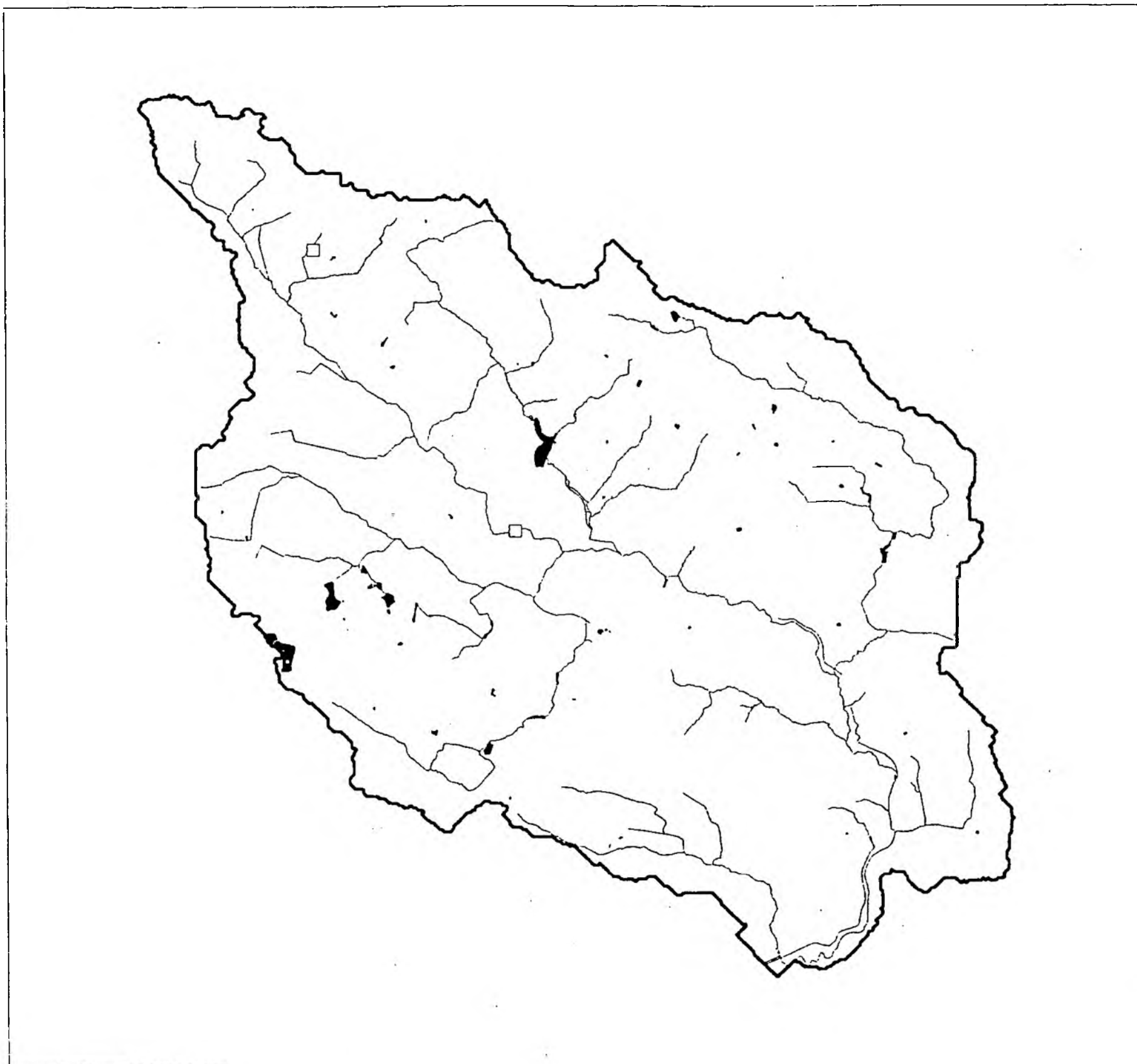
1) Water Voles shown on separate plan

big

Figure No.

Drawing No.

 	
Project	
Sankey NOW River Valley Initiative Conservation Assets Register	
Title	
Figure 5.3 Key River Species Noted during 1997 RHS Survey	
Drawing Number	xxxxxxx
Scale	1:100,000
Date	20/04/98



Key and Notes

GIANT HOGWEED HISTORIC PRESENCE

☐ Historic Presence (2)

- 1) 1997 RHS records were noted during survey of September/October 1997. Precise positions available for RHS sample sections.
- 2) Historic records are derived from Environment Agency River Corridor Surveys, St Helens, Nature Conservation Audit (1996) and other sources.
- 3) Refer to text of report for details.



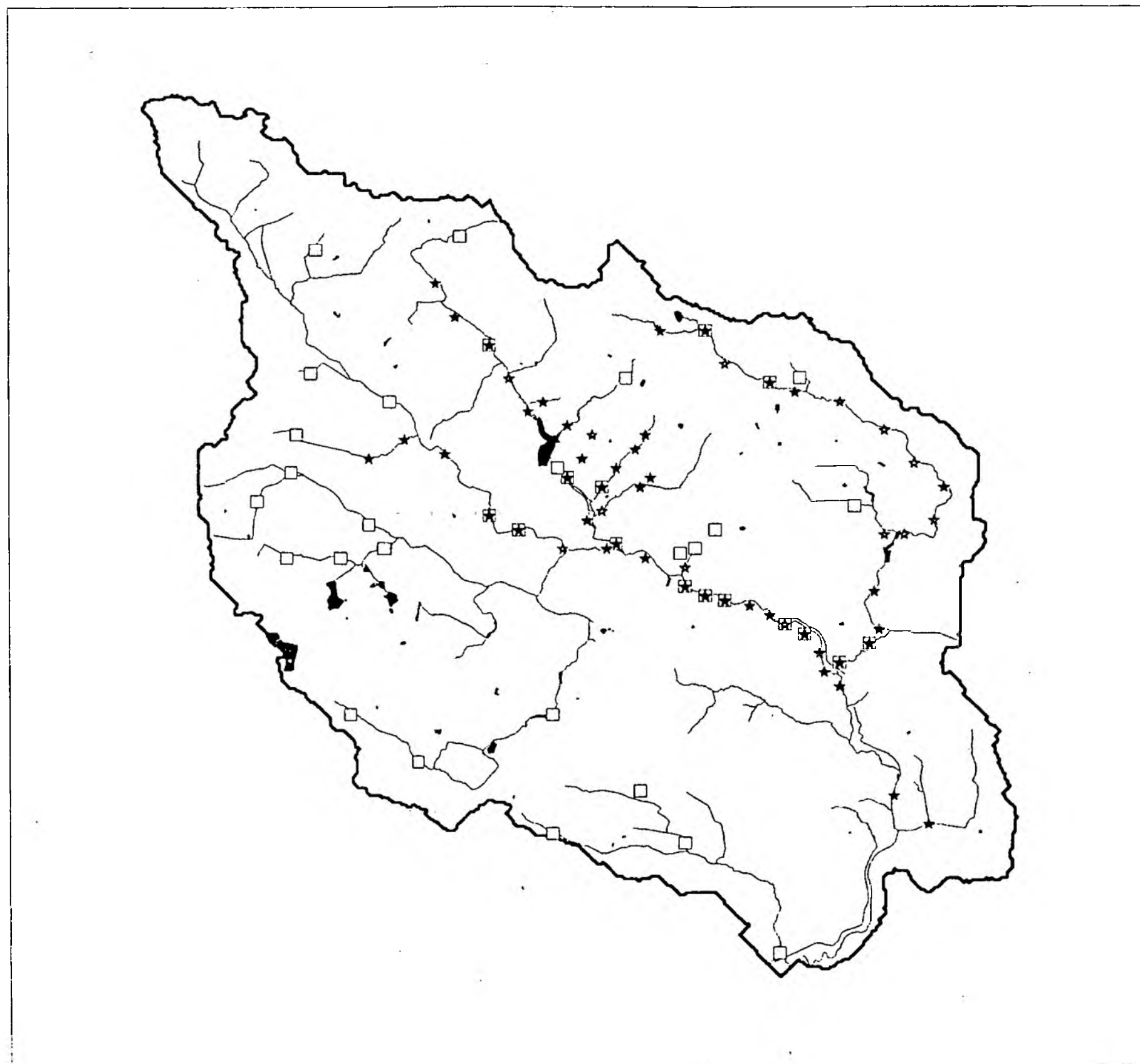
Project

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Conservation Assets Register

Title

Figure 5.4
Presence of Giant Hogweed

Drawing Number: xxxxxxxx
Scale: 1:100,000
Date: 20/04/98



Key and Notes

HIMALAYAN BALSAM

PRESENT RECORDS

- ★ Present (43)
- ★ Extensive Presence (14)

HISTORIC RECORDS

- Historic Presence (41)

- 1) 1997 RHS records were noted during survey of September/October 1997. Precise positions available for RHS sample sections
- 2) Historic records are derived from Environment Agency River Corridor Surveys, St Helens, Nature Conservation Audit (1996) and other sources.
- 3) Refer to text of report for details.



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Conservation Assets Register

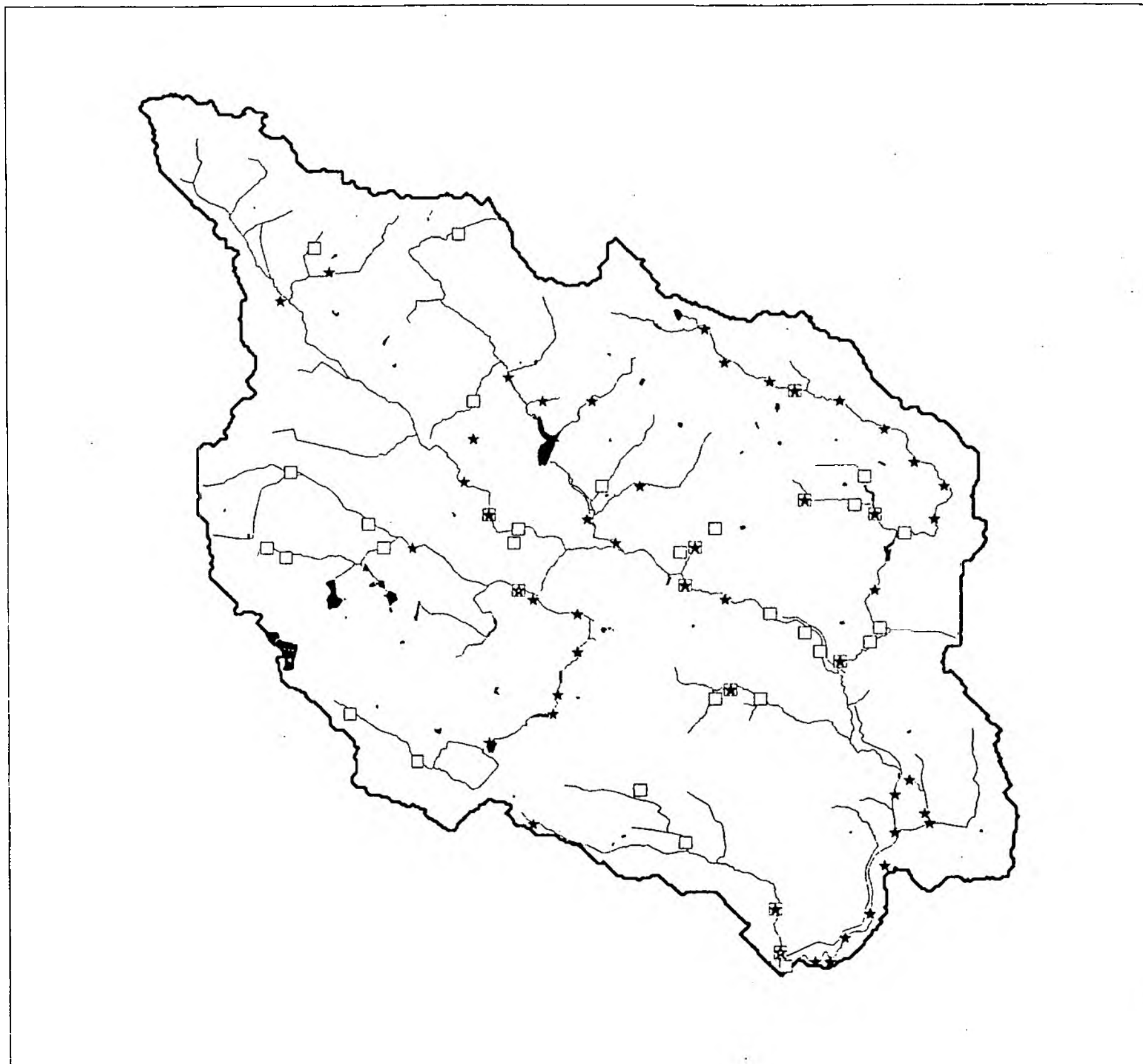
Title

Figure 5.5
Presence of Himalayan Balsam

Drawing Number: xxxxxxxx

Scale: 1:100,000

Date: 20/04/98



Key and Notes

JAPANESE KNOTWEED PRESENT RECORDS

- ★ Present (49)
- ★ Extensive Presence (2)

HISTORIC RECORDS

- Historic Presence (40)

- 1) 1997 RHS records were noted during survey of September/October 1997. Precise positions available for RHS sample sections.
- 2) Historic records are derived from Environment Agency River Corridor Surveys, St Helens, Nature Conservation Audit (1996) and other sources.
- 3) Refer to text of report for details.



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Conservation Assets Register

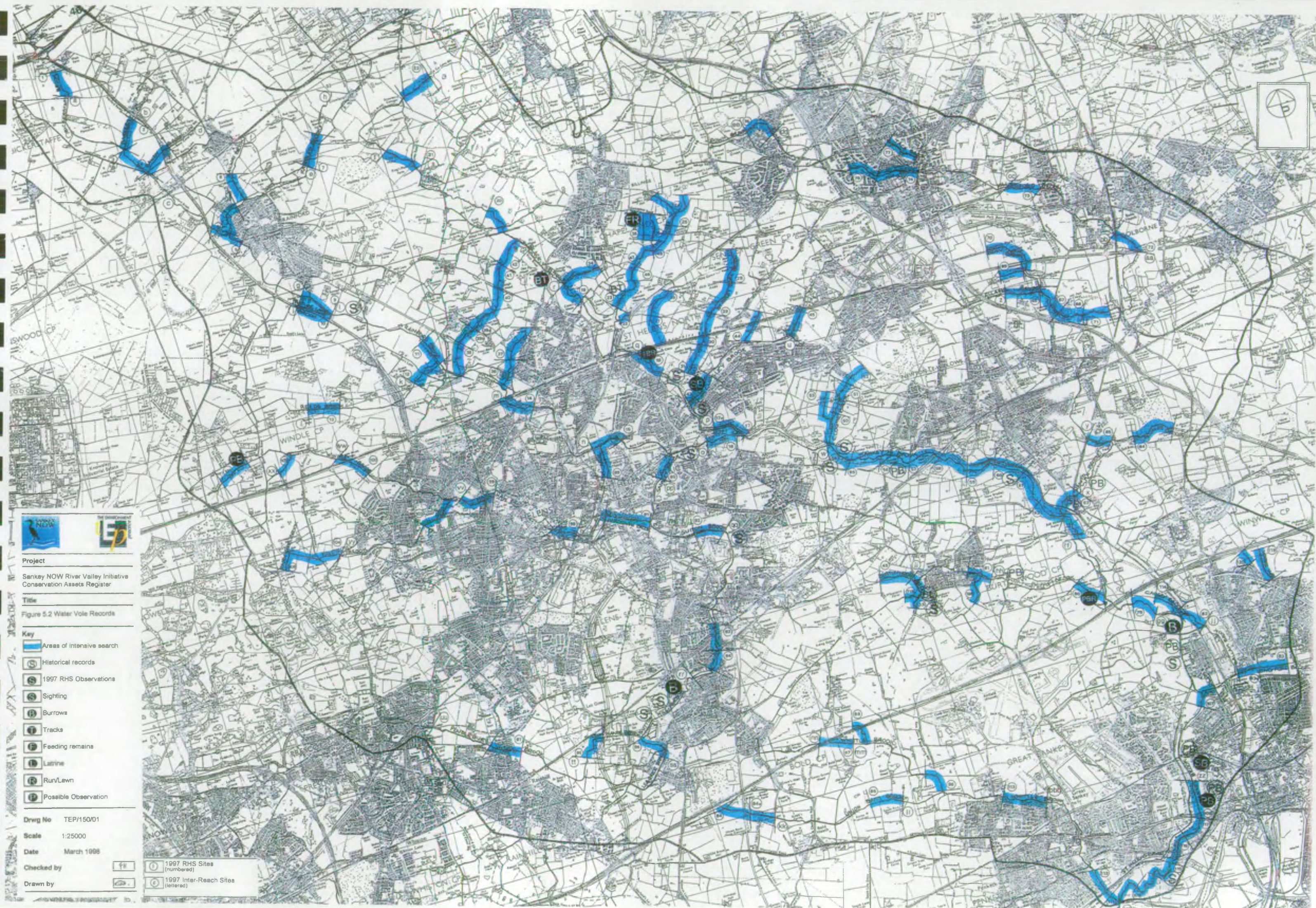
Title

Figure 5.6
Presence of Japanese Knotweed

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Scale: 1:100,000

Date: 20/04/98



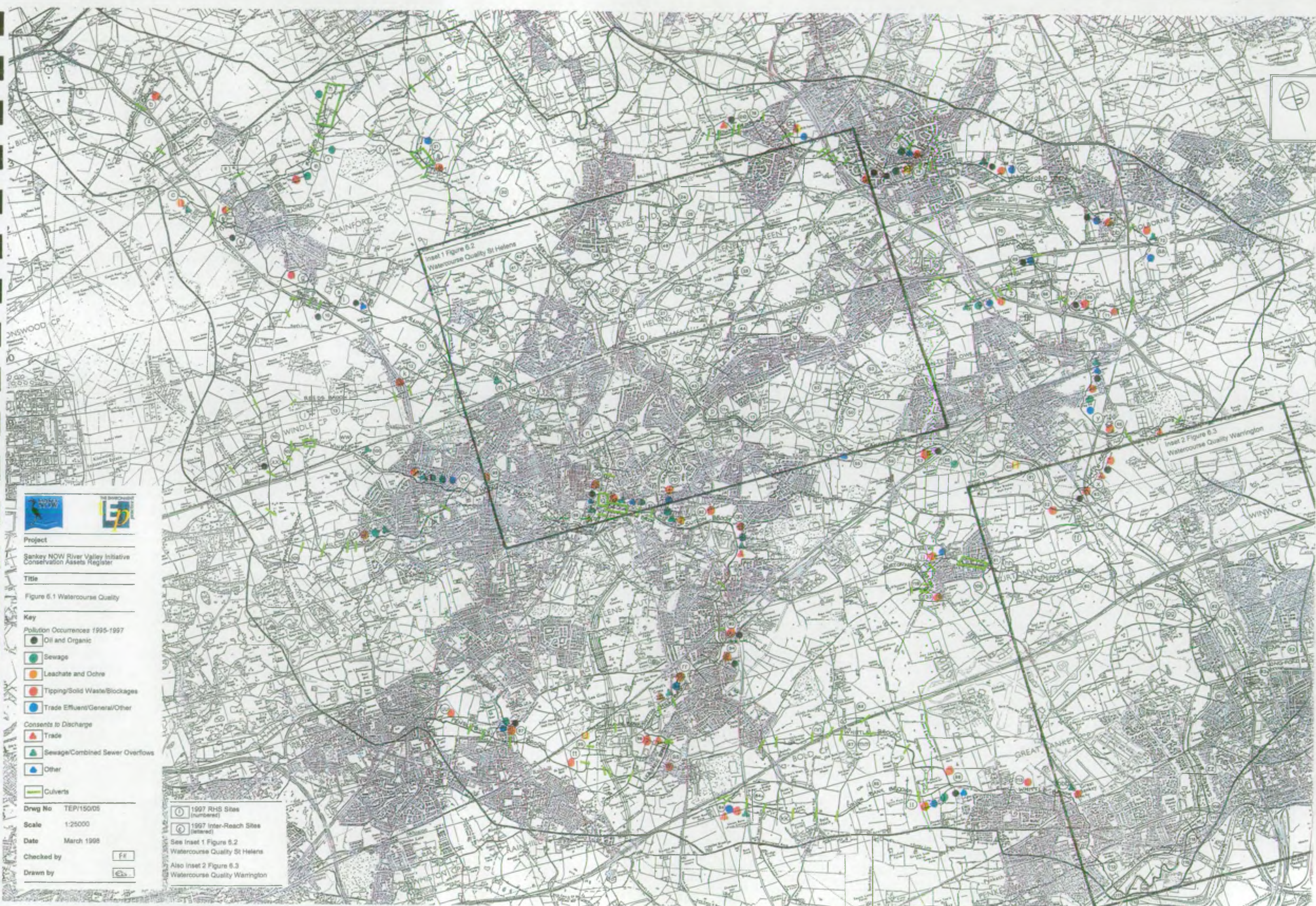
Project
Sankey NOW River Valley Initiative
Conservation Assets Register

Title
Figure 5.2 Water Vole Records

- Key**
- Areas of intensive search
 - Historical records
 - 1997 RHS Observations
 - Sighting
 - Burrows
 - Tracks
 - Feeding remains
 - Latrine
 - Run/Lawn
 - Possible Observation

Draw No TEP/150/01
Scale 1:25000
Date March 1998
Checked by [Signature]
Drawn by [Signature]

- 1997 RHS Sites (numbered)
- 1997 Inter-Reach Sites (lettered)



Project
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Conservation Assets Register

Title
Figure 6.1 Watercourse Quality

Key

- Pollution Occurrences 1995-1997
- Oil and Organic
 - Sewage
 - Leachate and Oils
 - Tipping/Solid Waste/Blockages
 - Trade Effluent/General/Other

- Consents to Discharge
- Trade
 - Sewage/Combined Sewer Overflows
 - Other

Culverts

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Date March 1998

Checked by ☐

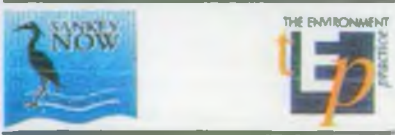
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1997 RHS Sites
(numbered)

1997 Inter-Reach Sites
(lettered)

See Inset 1 Figure 6.2
Watercourse Quality St Helens

Also Inset 2 Figure 6.3
Watercourse Quality Warrington



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River Valley Initiative
Conservation Assets Register

Title
Figure 6.2 Watercourse Quality
St Helens

For Key refer to Figure 6.1

Drwg No TEP/150/10

Scale Not to Scale

Date May 1998

Checked by

Drawn by



Project

Sankey NOW
River Valley Initiative
Conservation Assets Register

Title

Figure 6.3 Watercourse Quality
Warrington

For Key refer to Figure 6.1

Drwg No TEP/150/11

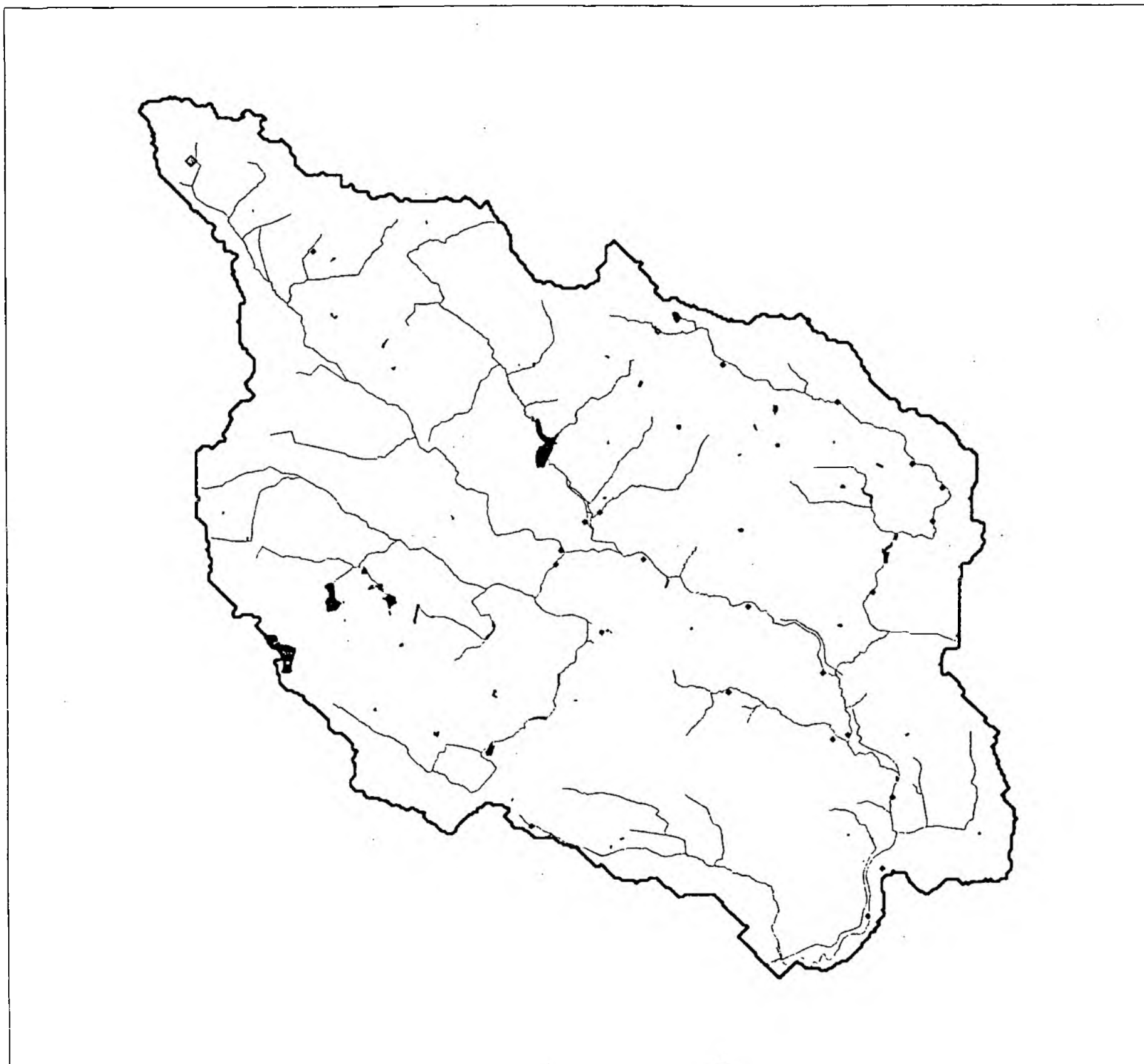
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Key and Notes

DISTRIBUTION AND EXTENT OF RAPIDS

- ◆ Rapids Present (23)
- ◆ Rapids Extensive (1)

Dig



Project

Sankey NOW River Valley Initiative
Conservation Assets Register

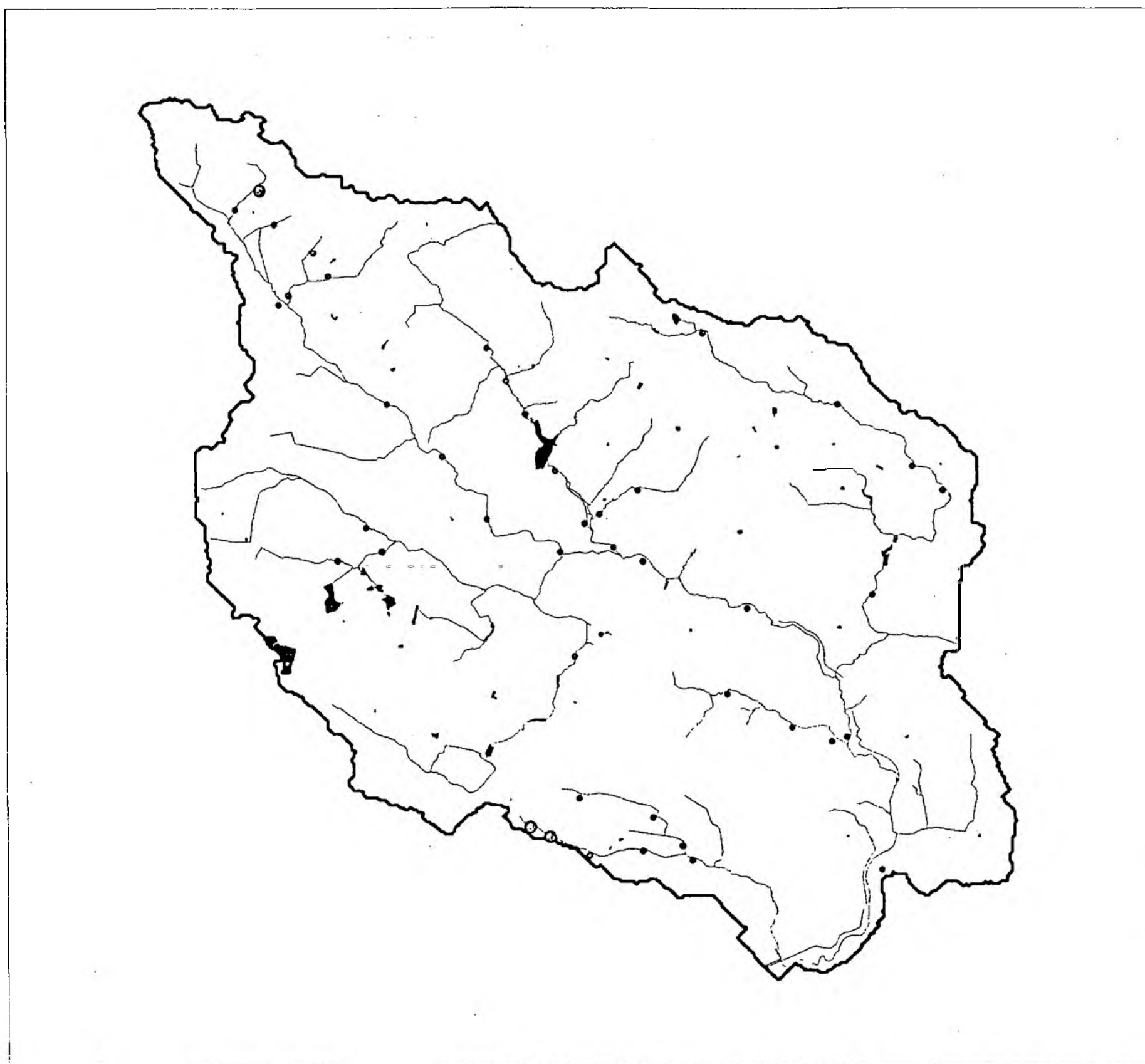
Title *SANKE - 15*

Figure 7.1
Distribution and Extent of Rapids

Drawing Number: *XXXXXX*

Scale: 1:100,000

Date: 20/04/98



Key and Notes

DISTRIBUTION AND EXTENT OF RIFFLES

- Riffles Present (41)
- Riffles Extensive (3)

Dry



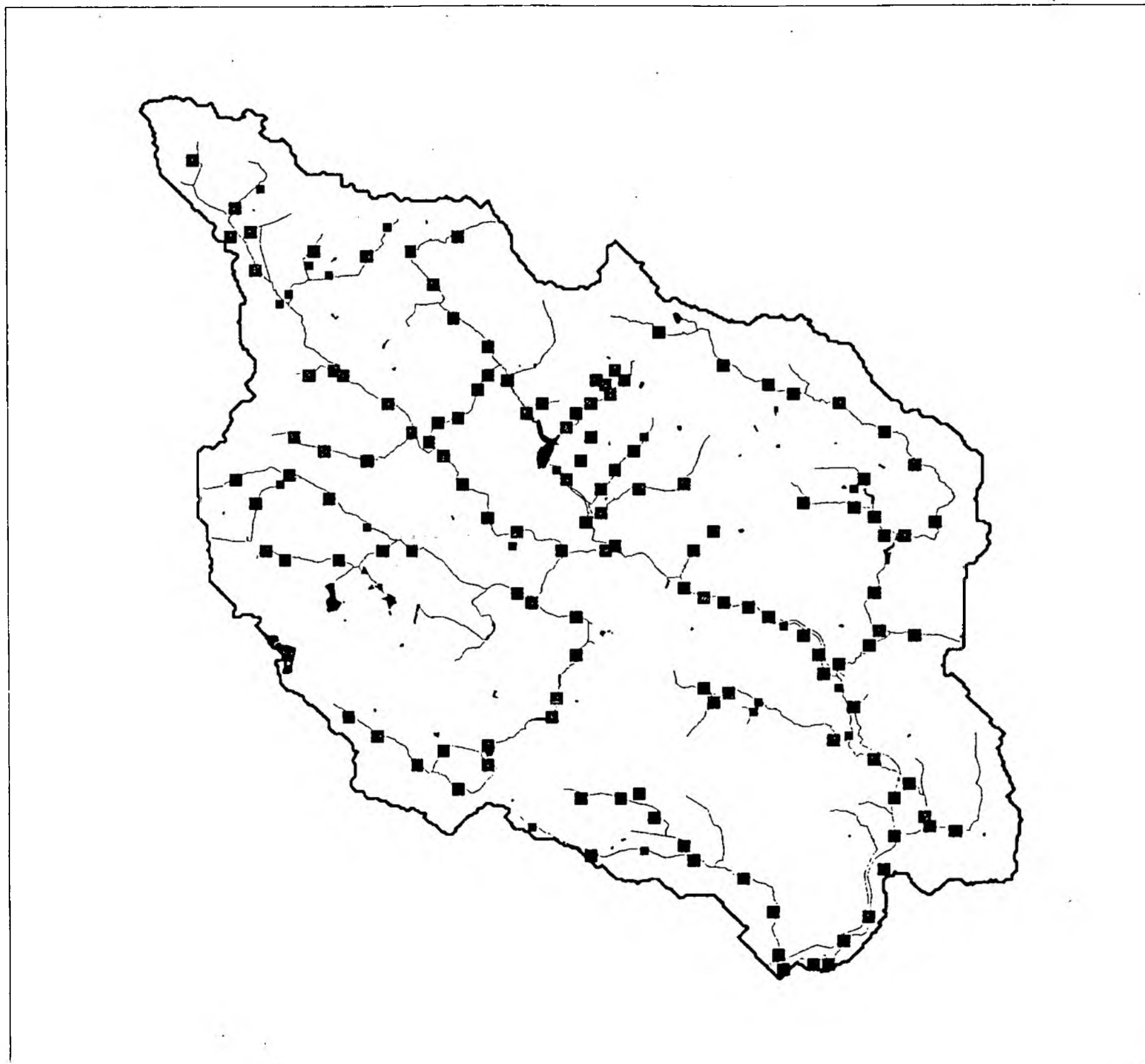
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Conservation Assets Register

Title *Sankey - 21*

Figure 7.2
Distribution and Extent of Riffles

Drawing Number: *xxxxxxx*
Scale: 1:100,000
Date: 20/04/98



Key and Notes

DISTRIBUTION AND EXTENT OF GLIDES

- Glides Present (19)
- Glides Extensive (136)

1) Includes Inter-reach sections



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Conservation Assets Register

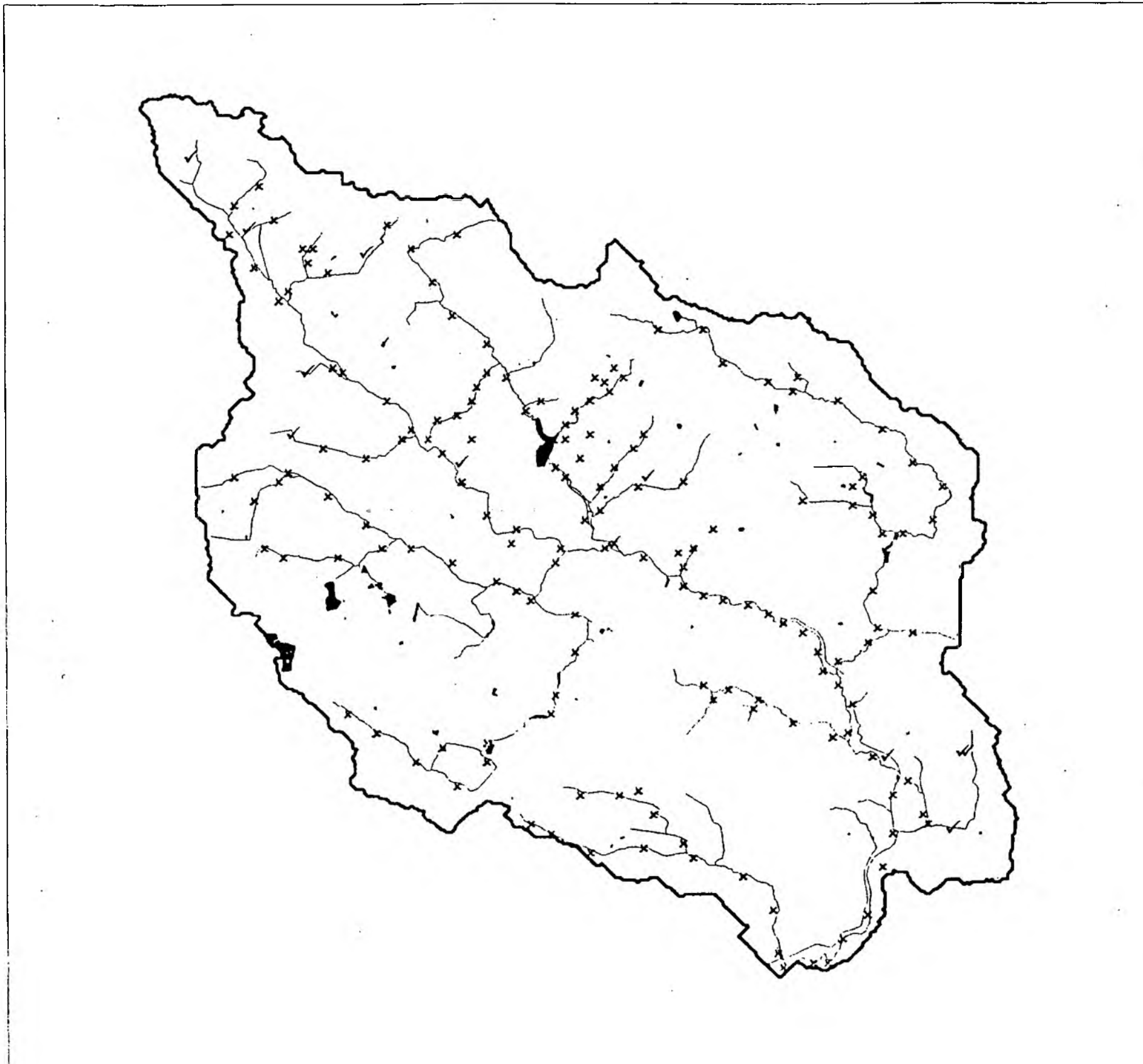
Title *Sankey NOW*

Figure 7.3
Distribution and Extent of Glides

Drawing Number: *XXXXXXXX*

Scale: 1:100,000

Date: 20/04/98



Key and Notes

DISTRIBUTION OF CHOKED CHANNELS

x Absent (165)
✓ Present (12)

1) Includes Inter-reach sections

FIGURE

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Conservation Assets Register

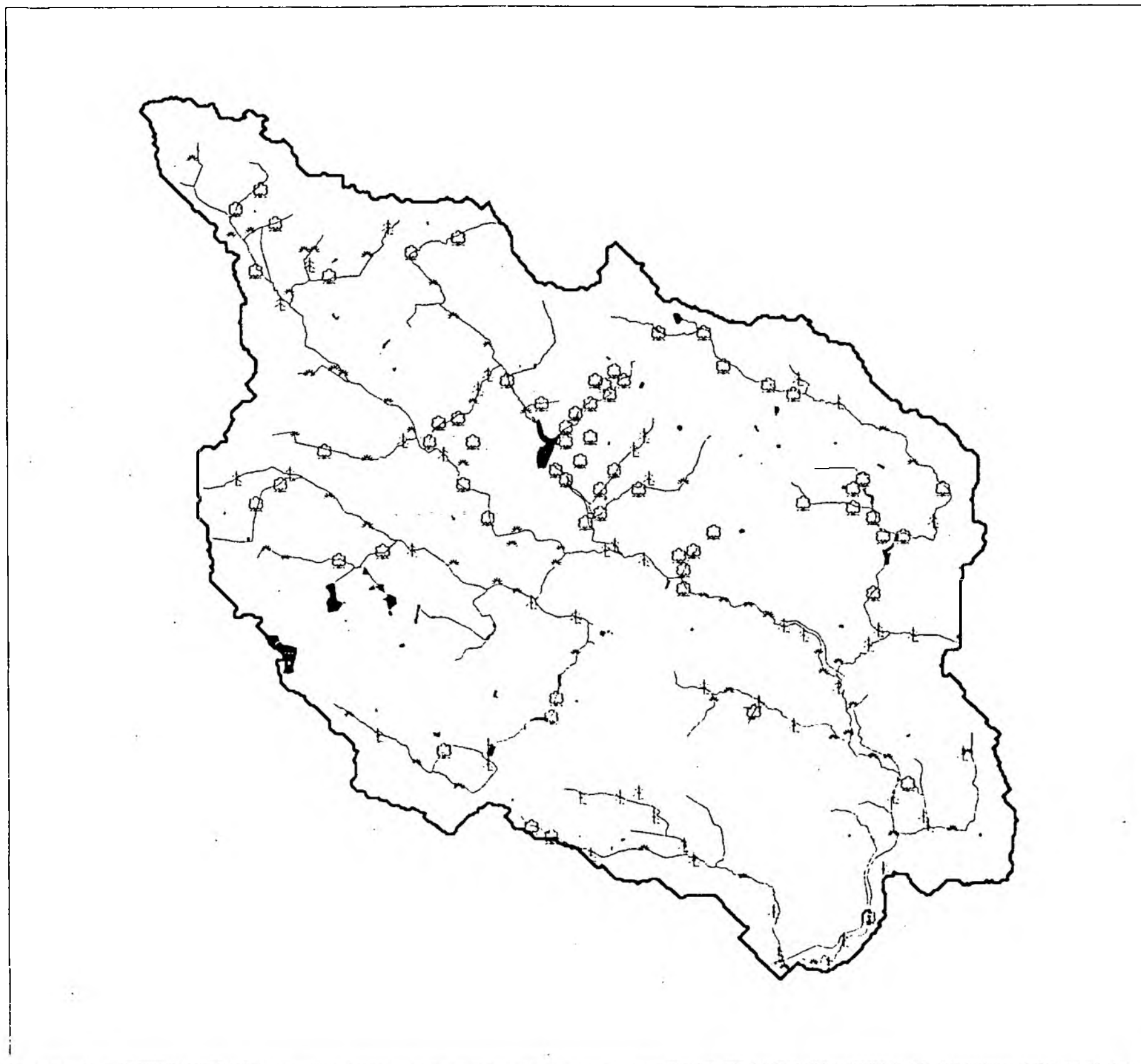
Title

Figure 7.4
Distribution of Choked Channels

Drawing Number: xxxxxxxx

Scale: 1:100,000

Date: 20/04/98



Key and Notes

BANKSIDE TREE DISTRIBUTION

- 0 to 4 Isolated/Scattered (61)
- 4 to 7 Occasional (51)
- 7 to 10 Continuous/Semi-continuous (65)

Amended Key/symbols
Fig
Draw



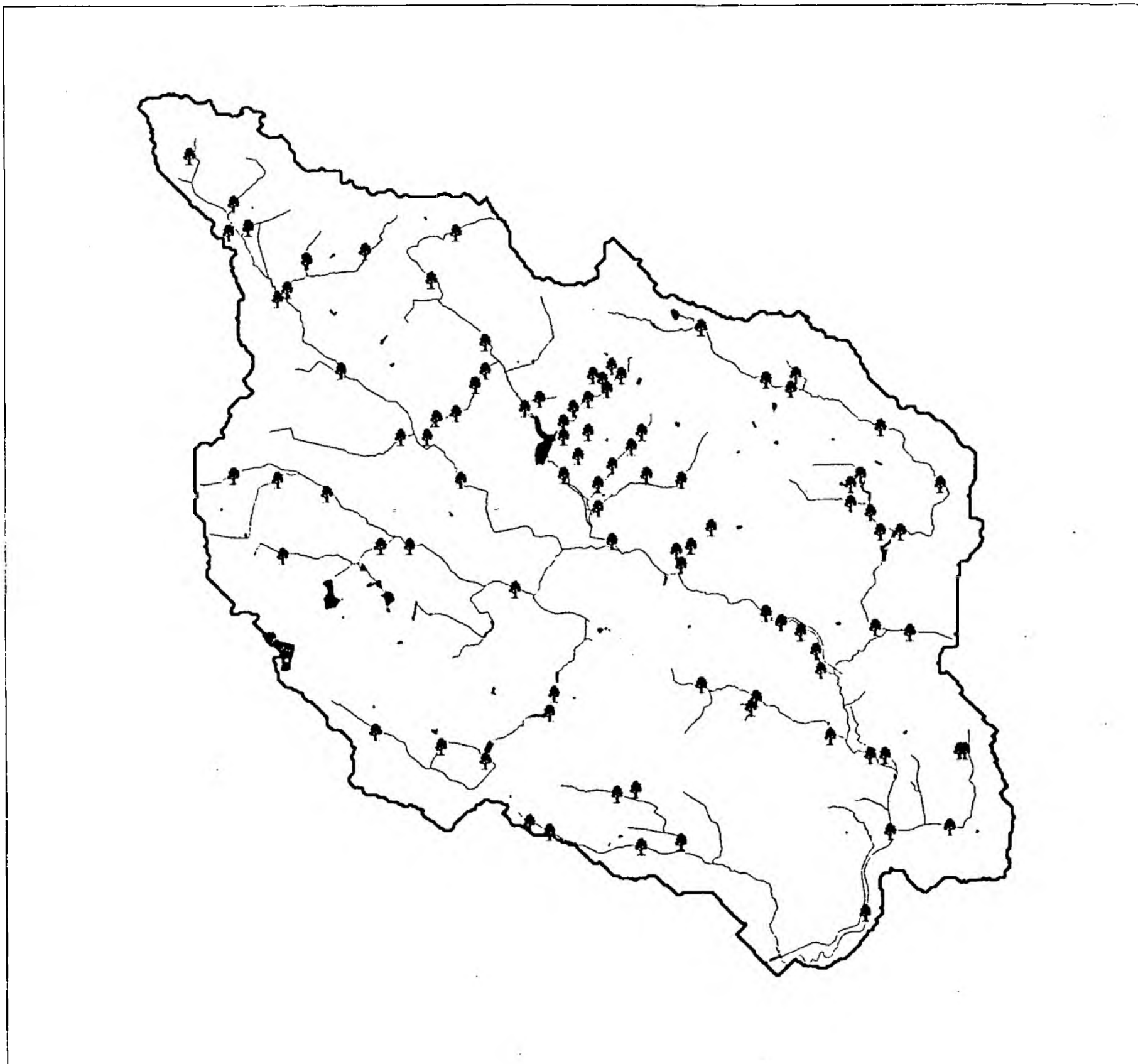
Project

Sankey NOW River Valley Initiative
Conservation Assets Register

Title SANKEY - 22

Figure 7.5
Bankside Tree Distribution

Drawing Number: xxxxxxxx
Scale: 1:100,000
Date: 20/04/98



Key and Notes



Location of Associated Tree Feature



Project

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Conservation Assets Register

Title

*Figure 7-6 Location of RHS sites with
associated tree features*

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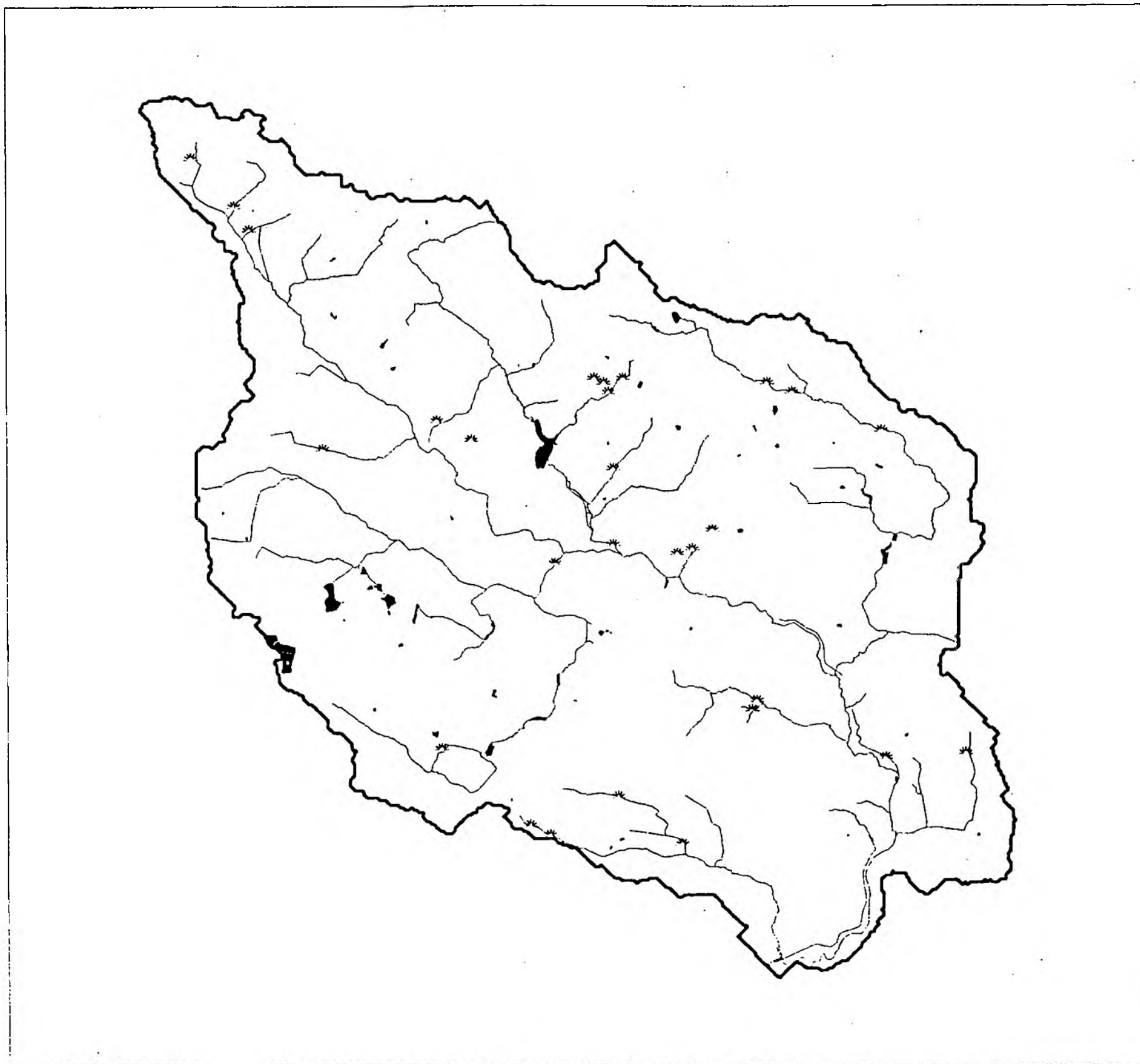
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20/04/98



Key and Notes

BANK FACE VEGETATION DIVERSITY

- * Sites where >50% spot checks have simple or complex vegetation structure (28)

Fig
Dig.



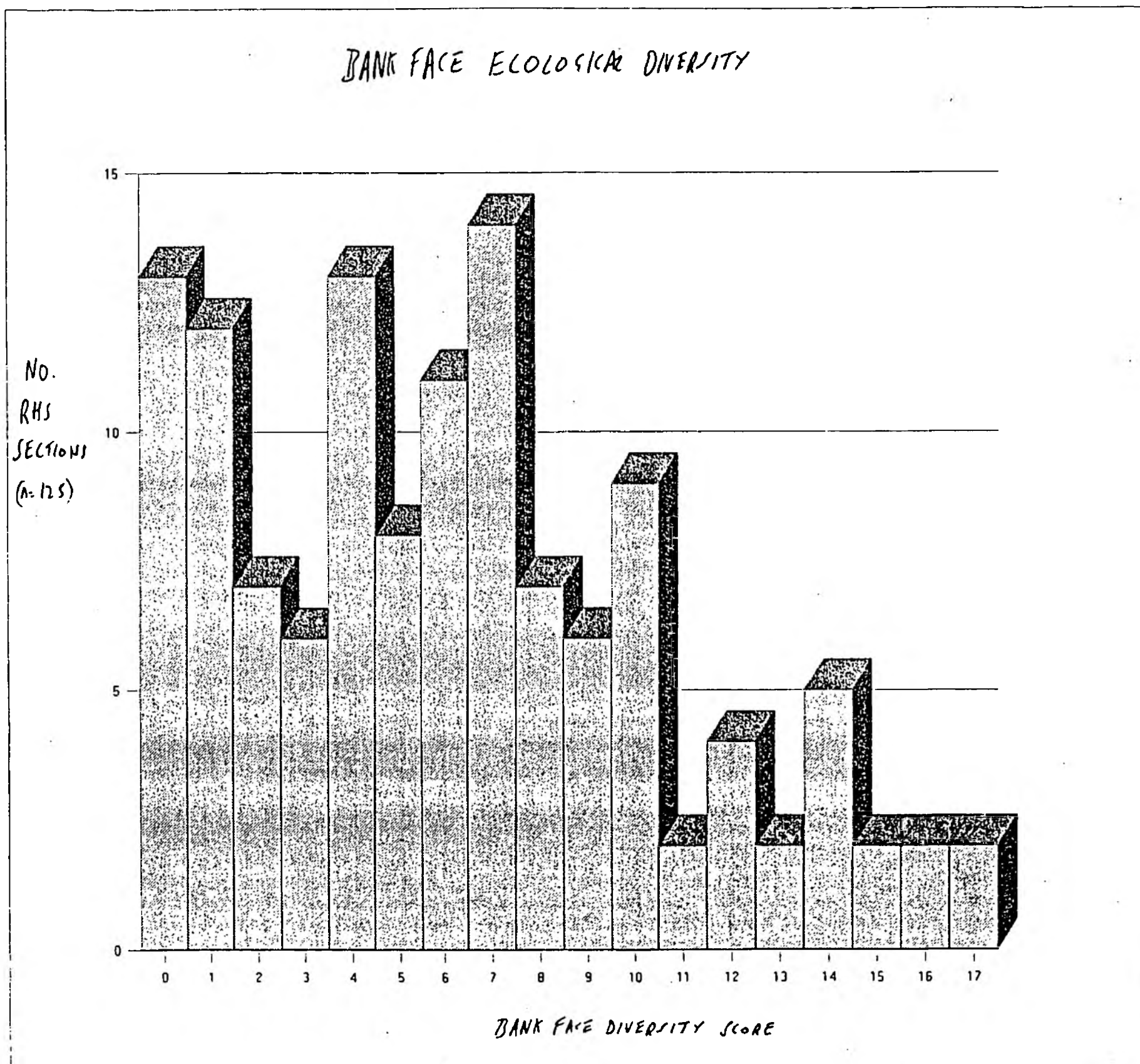
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Conservation Assets Register

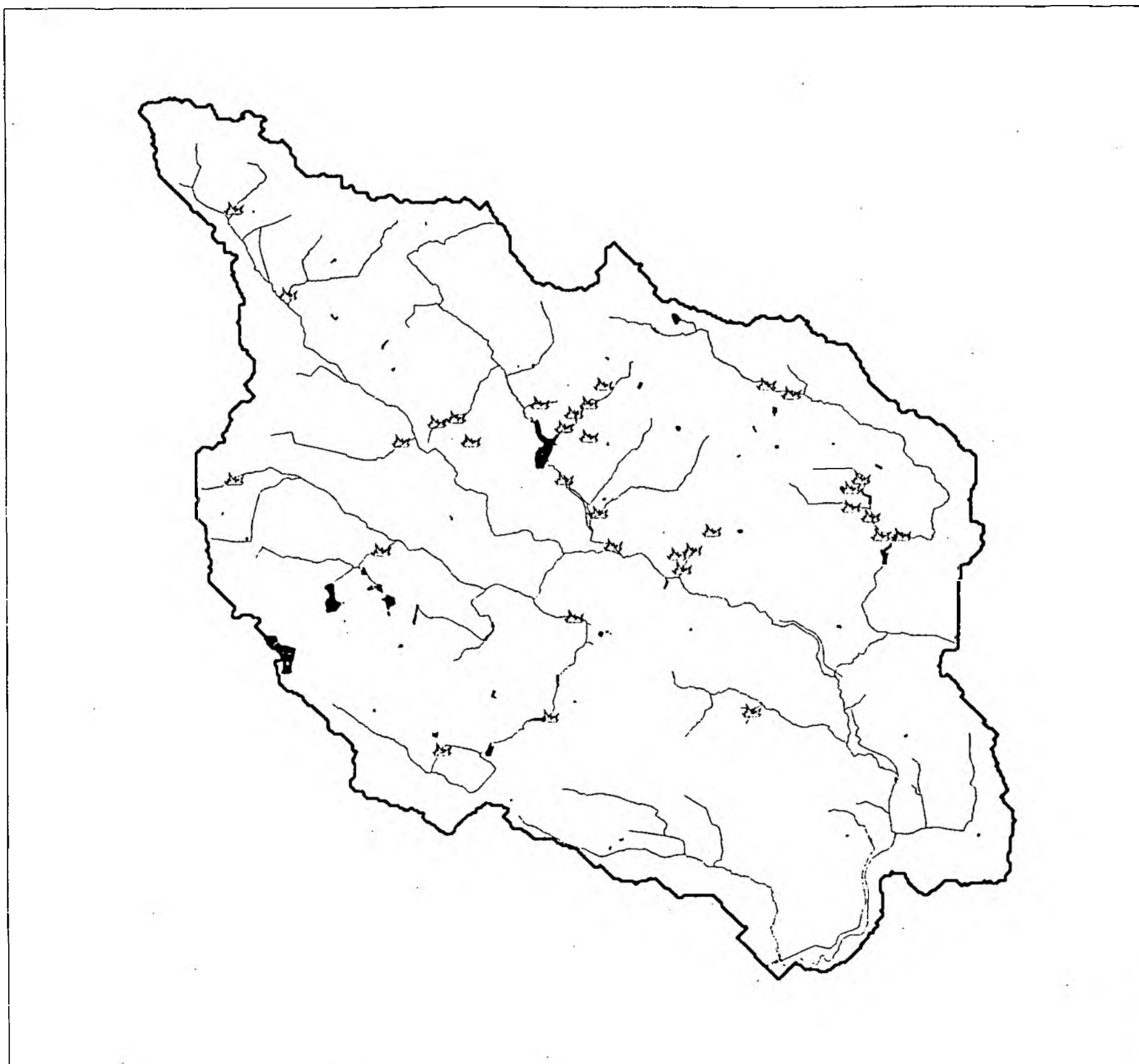
Title *Sankey - 16*

Figure 7.7
Bank Face Vegetation Diversity

Drawing Number: *xxxxxxx*
Scale: 1:100,000
Date: 20/04/98



			
Project			
Sankey NOW River Valley Initiative Conservation Assets Register			
Title			
<i>Figure 7.7a: BANK FACE ECOLOGICAL DIVERSITY</i>			
Drawing Number:		xxxxxxx	
Scale:		1:100,000	
Date:		20/04/98	



Key and Notes

BANK TOP VEGETATION DIVERSITY

★ Sites where 50% spot checks had simple or complex banktop vegetation (35)

Fig -
Dry -

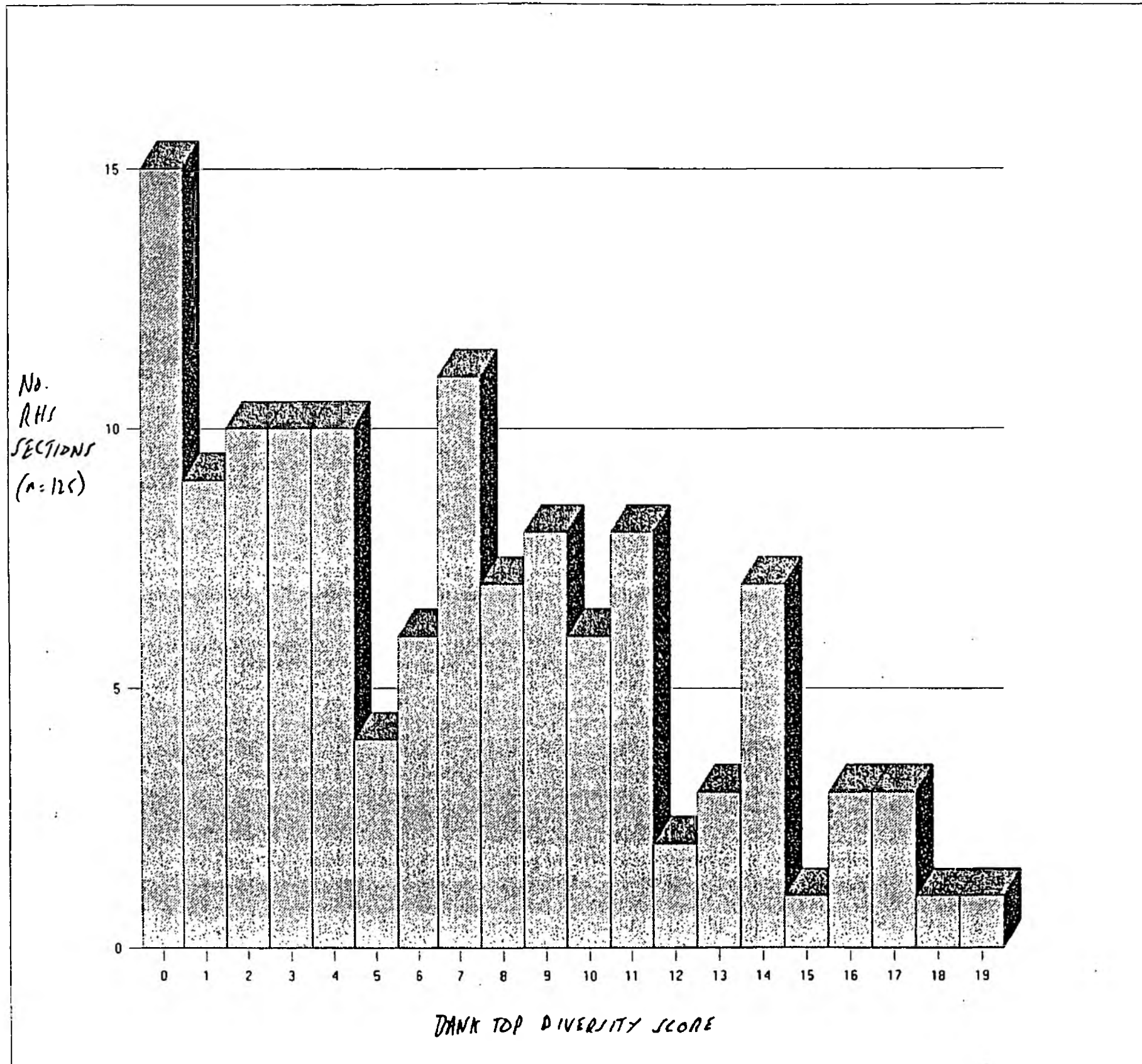




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Conservation Assets Register

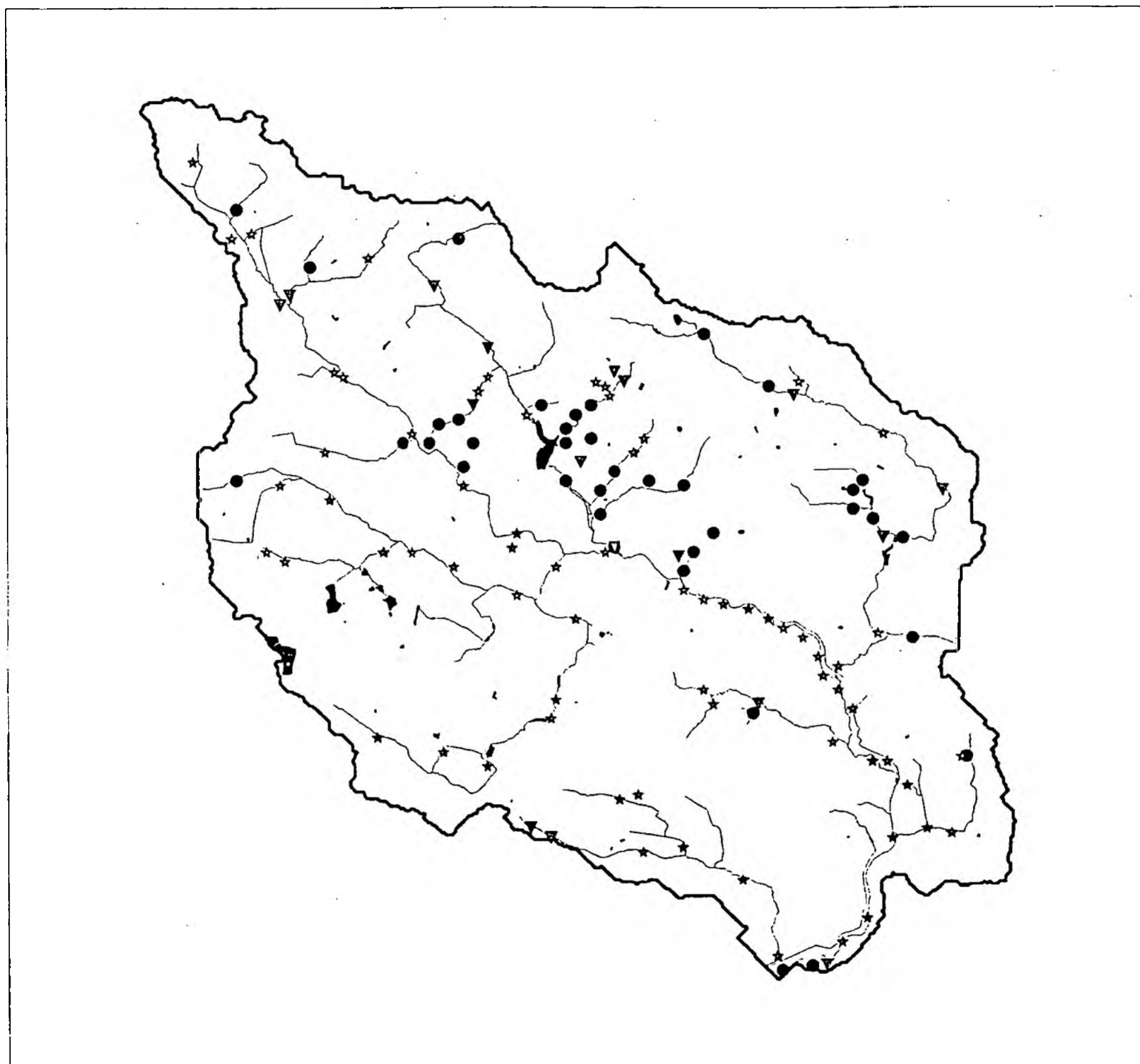
Title SANKEY - 18

Figure 7.8
Bank Top Vegetation Diversity

Drawing Number: xxxxxxxx
Scale: 1:100,000
Date: 20/04/98



	
Project	
Sankey NOW River Valley Initiative Conservation Assets Register	
Title <i>SAIVC-17</i>	
Figure 7.8a: BANK TOP ECOLOGICAL DIVERSITY	
Drawing Number: <i>xxxxxxxx</i>	
Scale: 1:100,000	
Date: 20/04/98	



Key and Notes

EXTENT OF BANK RESECTIONING

- 0 to 1 no resectioning (39)
- ▼ 1 to 7 little resectioning (17)
- ★ 7 to 20 extensive resectioning (69)



Project

Sankey NOW River Valley Initiative
Conservation Assets Register

Title

SLYVK 25

Figure 7.9

Extent of Bank Resectioning

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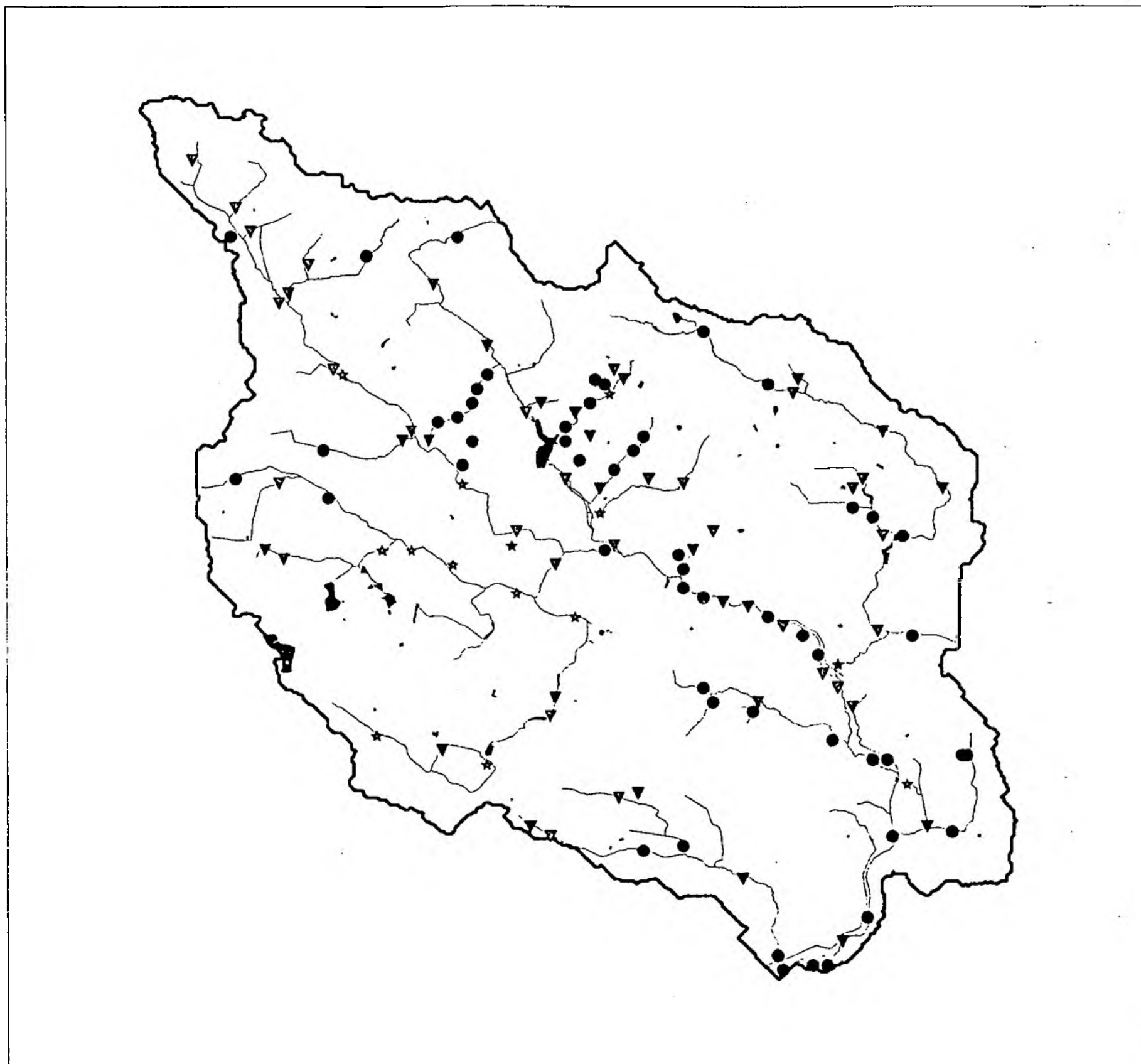
xxxxxxx

Scale:

1:100,000

Date:

20/04/98



Key and Notes

EXTENT OF BANK REINFORCEMENT

- 0 to 1 no reinforcement (54)
- ▼ 1 to 7 reinforced (56)
- ★ 7 to 20 extensive reinforcement (15)



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Conservation Assets Register

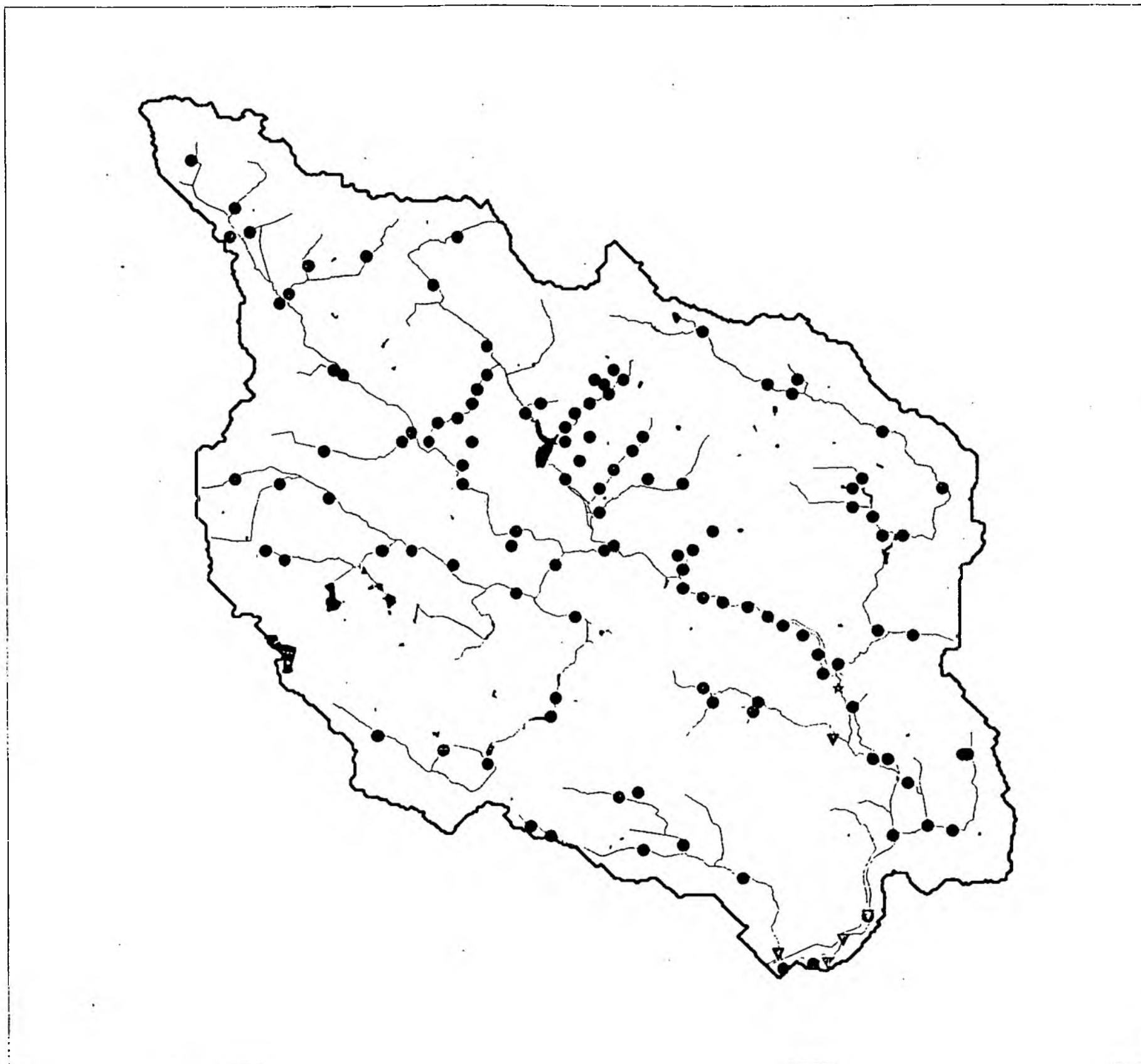
Title

Figure 7-10
Extent of Bank Reinforcement

Drawing Number: xxxxxxxx

Scale: 1:100,000



Date: 20/04/98

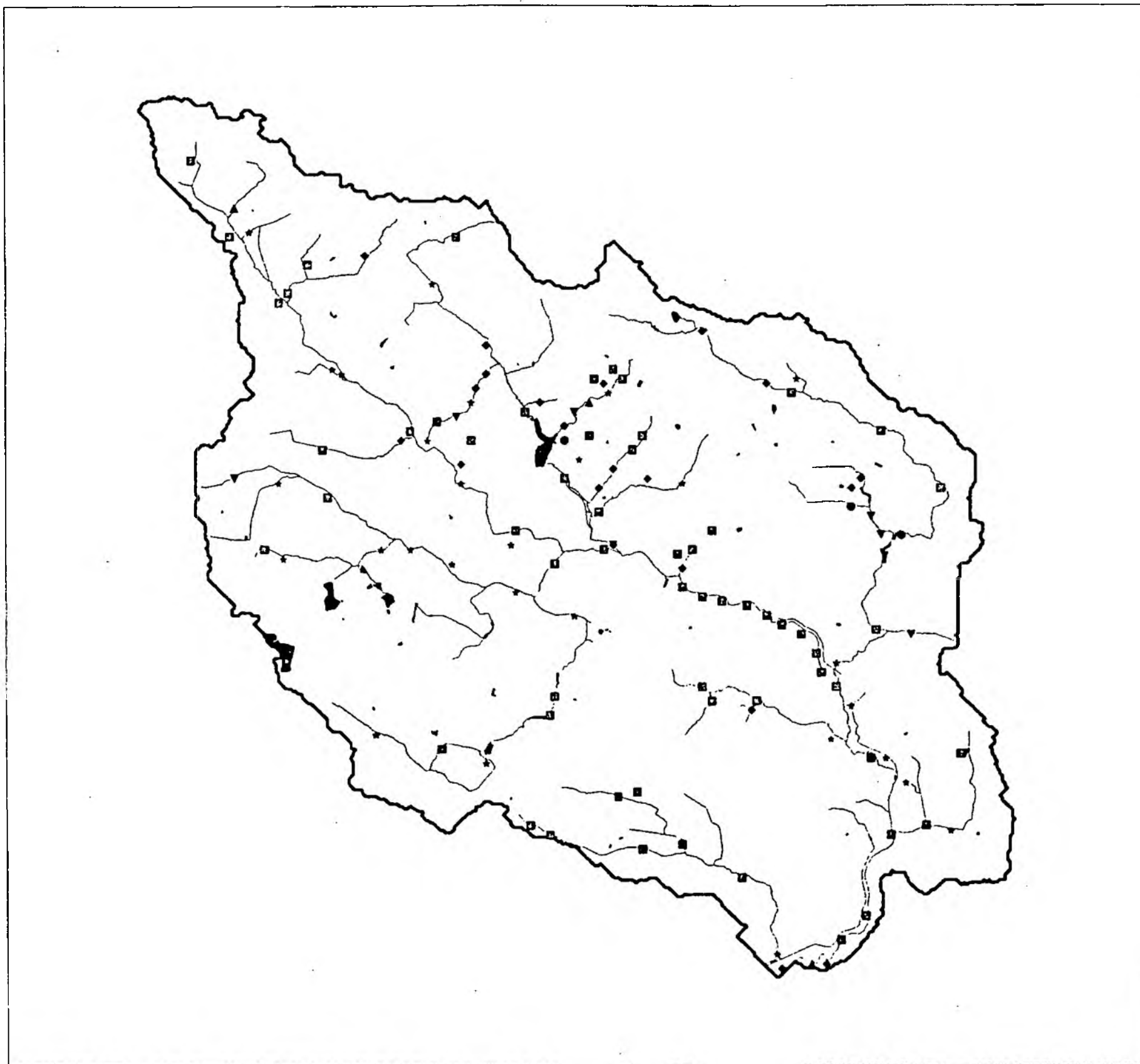


Key and Notes		
EXTENT OF EMBANKMENTS		
● 0 to 1	no embankment	(119)
▼ 1 to 7	few embankments	(5)
★ 7 to 20	extensive embankment	(1)

Dry 1/0



	
Project	
Sankey NOW River Valley Initiative Conservation Assets Register	
Title <i>SANKEY RIVER</i>	
Figure 7.11 Extent of Embankments	
Drawing Number: <i>xxxxxxx</i>	
Scale: 1:100,000	
Date: 20/04/98	



Key and Notes

HABITAT MODIFICATION INDEX

By Habitat Modification Score

- 1 to 4 - Pristine (4)
- ▲ 5 to 8 - Semi-natural (3)
- ▼ 9 to 20 - Predominantly unmodified (8)
- ◆ 21 to 40 - Obviously modified (21)
- 41 to 60 - Extensively modified (60)
- ★ 61 to 100 - Heavily extensively modified (29)

FIGURE No.

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* IS IT THIS OR SANKEY-3C



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Conservation Assets Register

Title *SANKEY-3A*

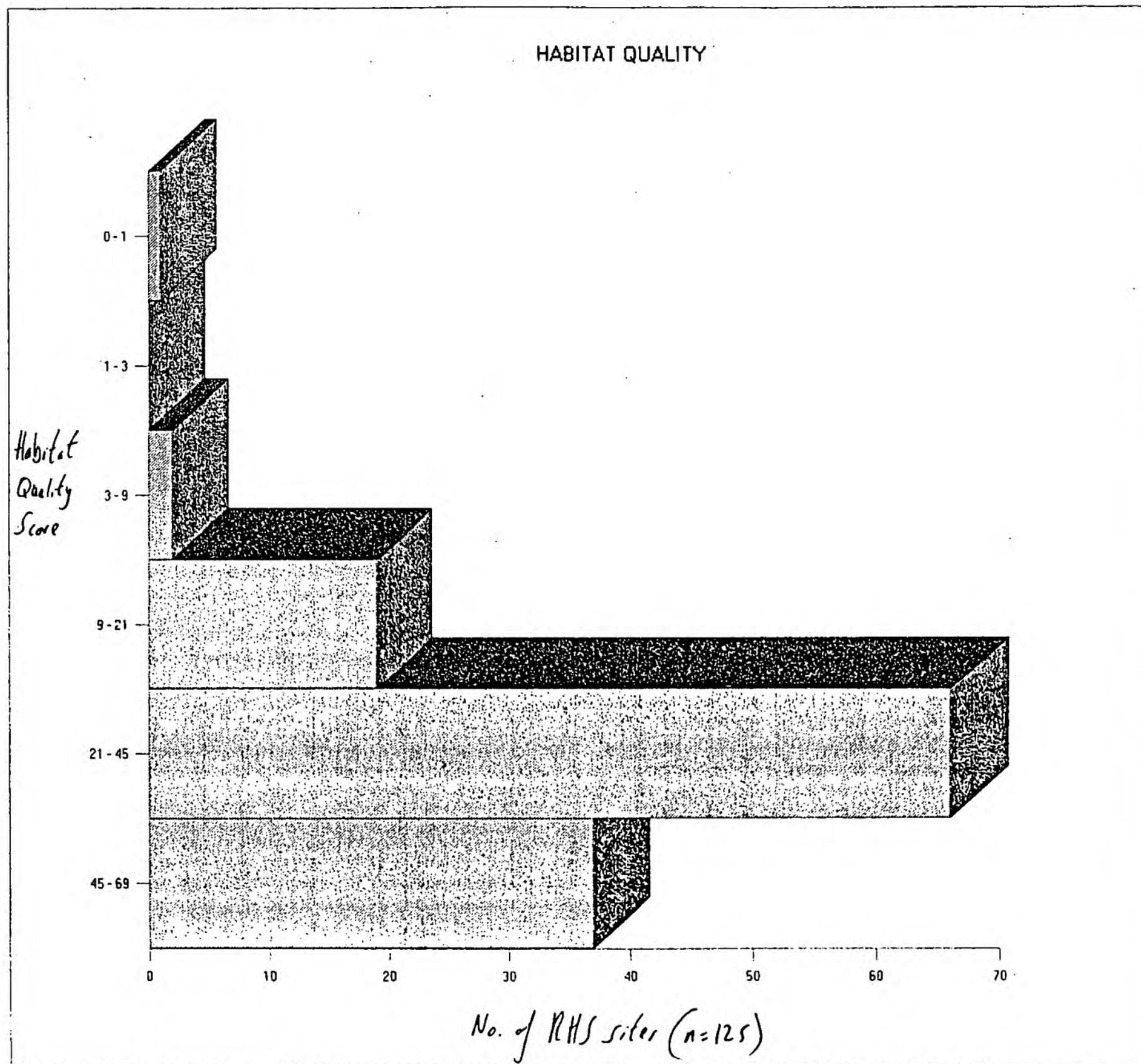
Figure 7.12

Habitat Modification Index - by Score



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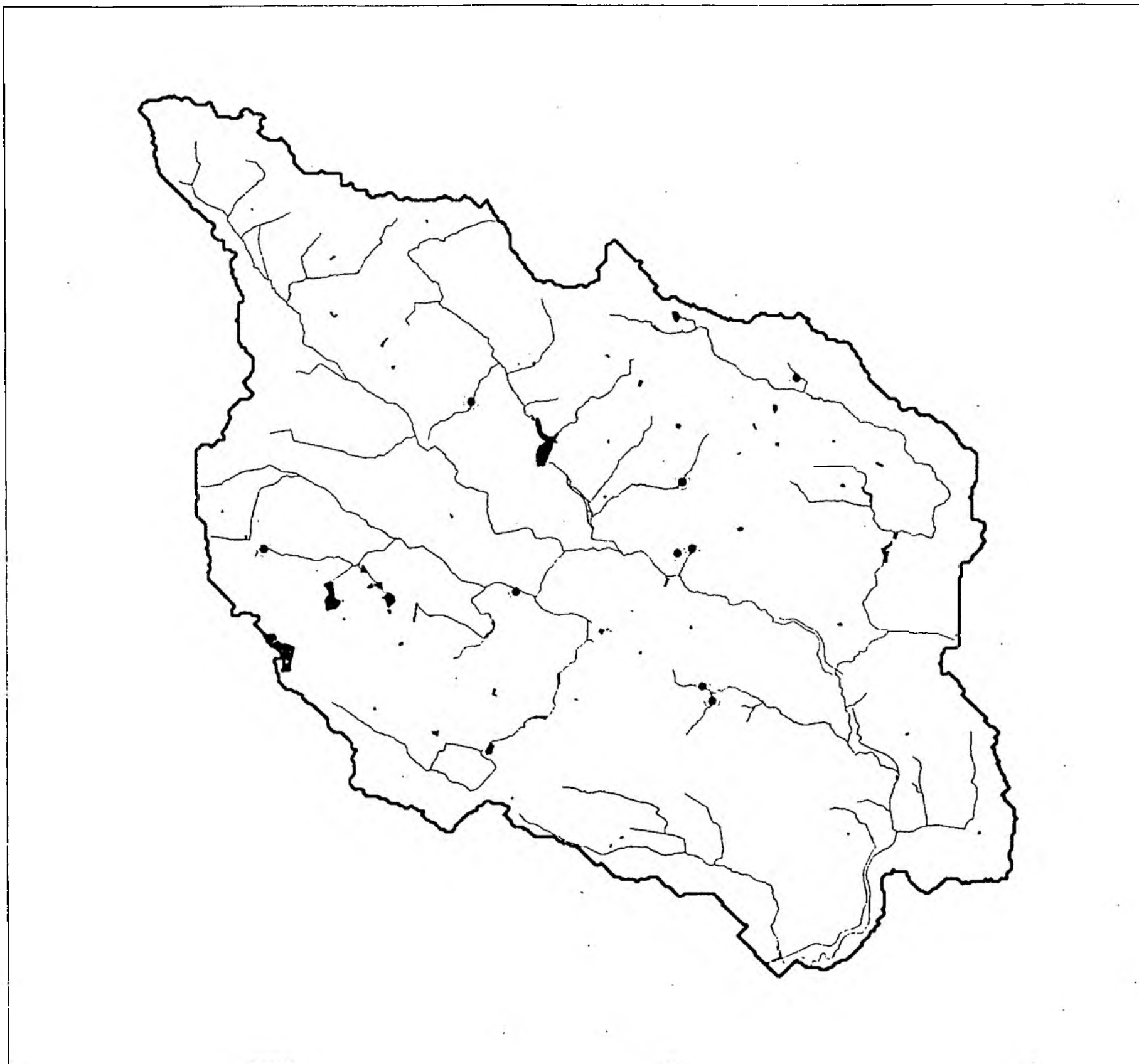
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Refer also to Figure 7.13

 	
Project	
Sankey NOW River Valley Initiative Conservation Assets Register	
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Fig 7.13a Frequency of RHS sites with differing habitat quality scores	
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Scale: 1:100,000	
Date: 20/04/98	



Key and Notes




REHABILITATION POTENTIAL

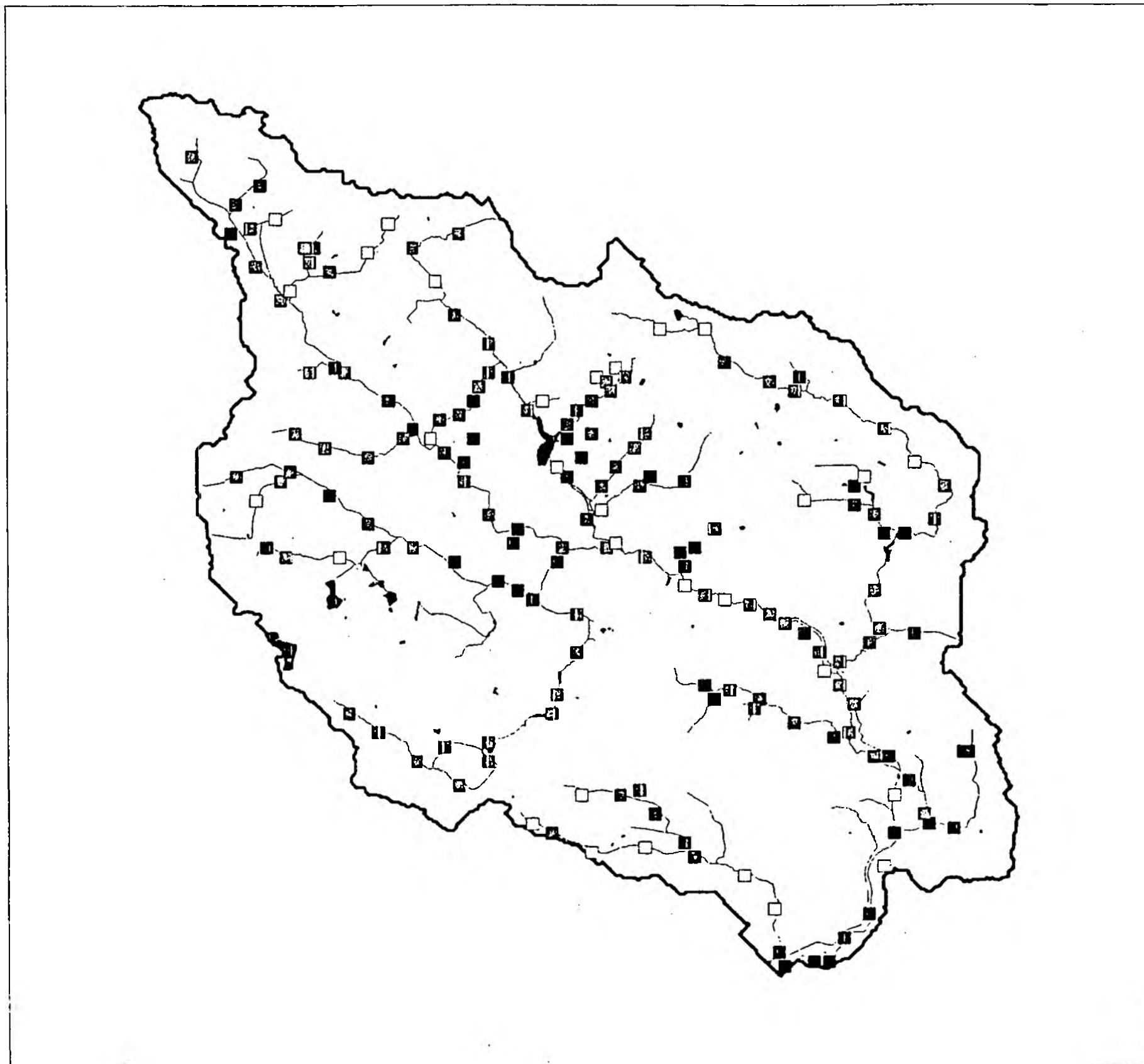
- Prime Sites for Geomorphological Rehabilitation (9)

1) Refer to text for details of derivation of rehabilitation potential

FIGURE
DRG

DATA FOR = 14,828

  	
Project	
Sankey NOW River Valley Initiative Conservation Assets Register	
Title	
Figure 7.14 Rehabilitation Potential (Geomorphological)	
Drawing Number: xxxxxxxx	
Scale: 1:100,000	
Date: 20/04/98	





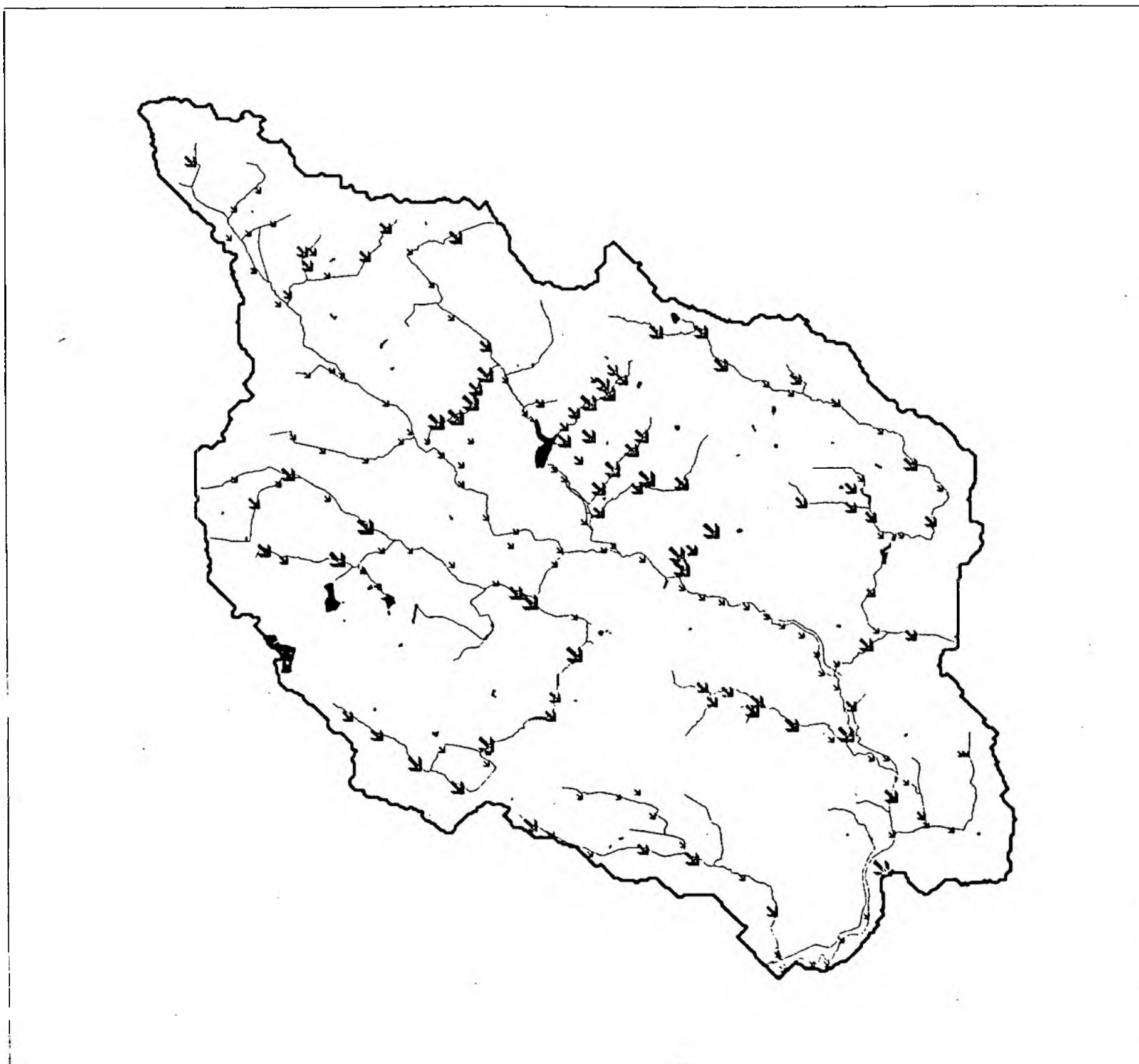
Key and Notes

GEOMORPHOLOGICAL DIVERSITY

0	(1)
1	(6)
2	(39)
3	(57)
4	(30)
5	(34)
6	(10)

- 1) GDI is based on data researched *During RHS* survey for sediment *sources*, sediment sinks, substrate condition and flowtype - refer to text for detail

	
Project	
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Title	
Figure 7.18 Geomorphological Diversity Index	
Drawing Number: xxxxxxxx	
Scale: 1:100,000	
Date: 20/04/98	



Key and Notes

STREAM POWER INDEX

Proxy Index (rounded)



- ↘ 0 to 2 (93)
- ↘ 2 to 3 (10)
- ↘ 3 to 7 (31)
- ↘ 7 to 21 (24)
- ↘ 21 to 120 (19)

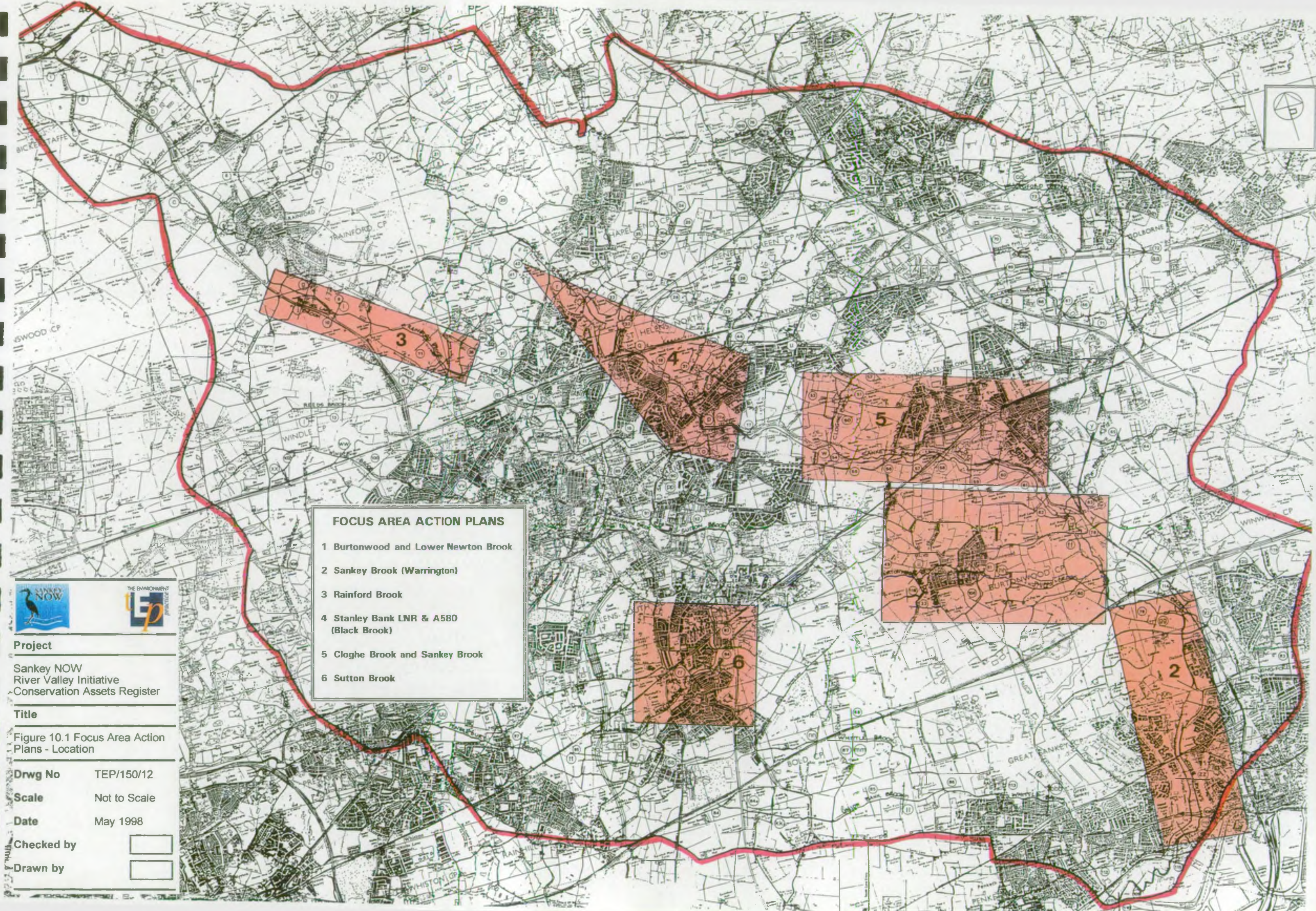
- 1) Stream Power Proxy is a measure of the the power of a river to entrain, transport and deposit sediment. Refer to text for full details.

Figure

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ARE THE RANGES CORRECT.
(JW)

 	
<p>Project</p> <p>Sankey NOW River Valley Initiative Conservation Assets Register</p>	
<p>Title SAN - 12</p>	
<p>Figure 7.19 Stream Power Index</p>	
<p>Drawing Number: xxxxxxxx</p>	
<p>Scale: 1:100,000</p>	
<p>Date: 20/04/98</p>	



- FOCUS AREA ACTION PLANS**
- 1 Burtonwood and Lower Newton Brook
 - 2 Sankey Brook (Warrington)
 - 3 Rainford Brook
 - 4 Stanley Bank LNR & A580 (Black Brook)
 - 5 Cloghe Brook and Sankey Brook
 - 6 Sutton Brook



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Figure 10.1 Focus Area Action
Plans - Location

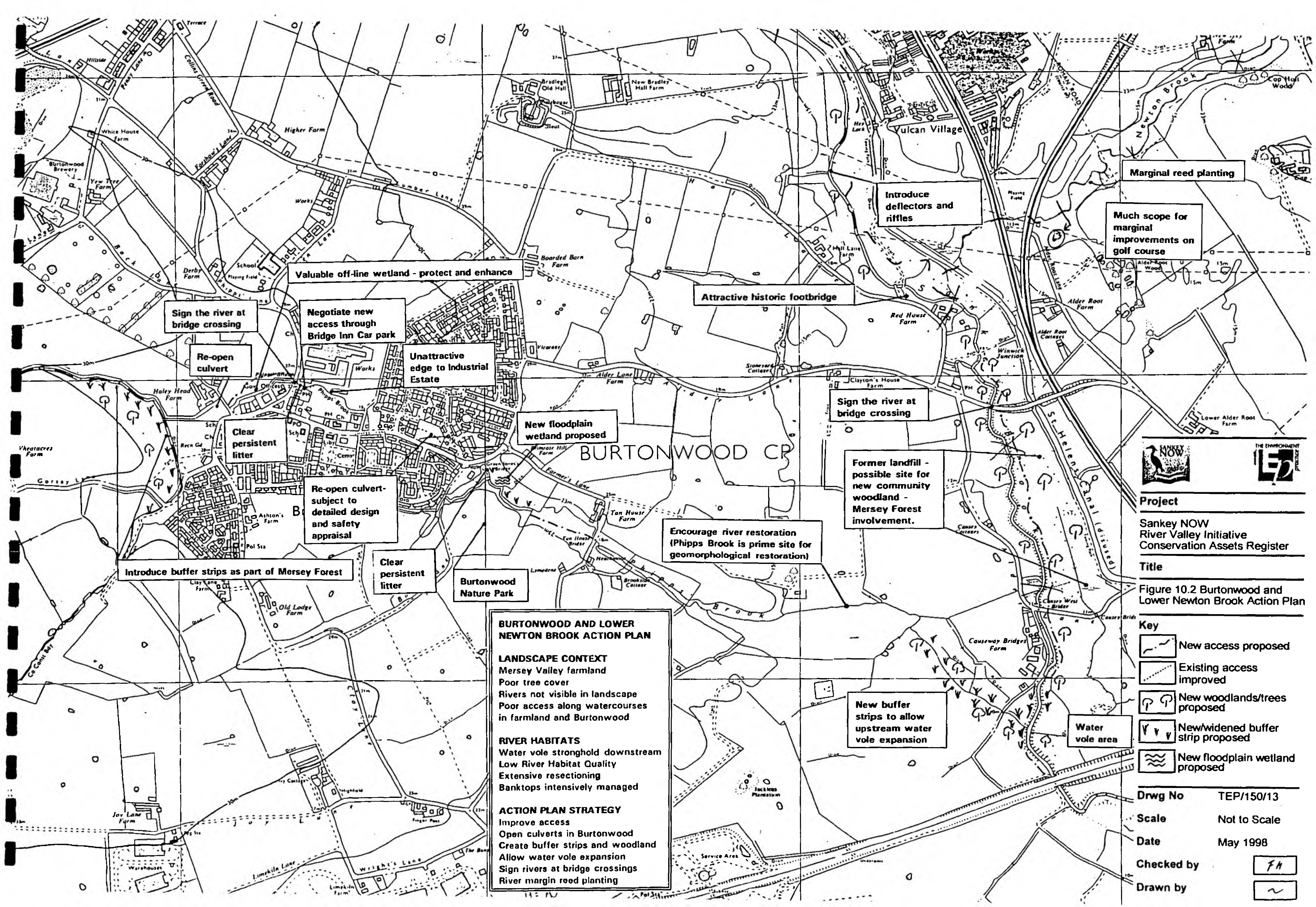
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Date May 1998

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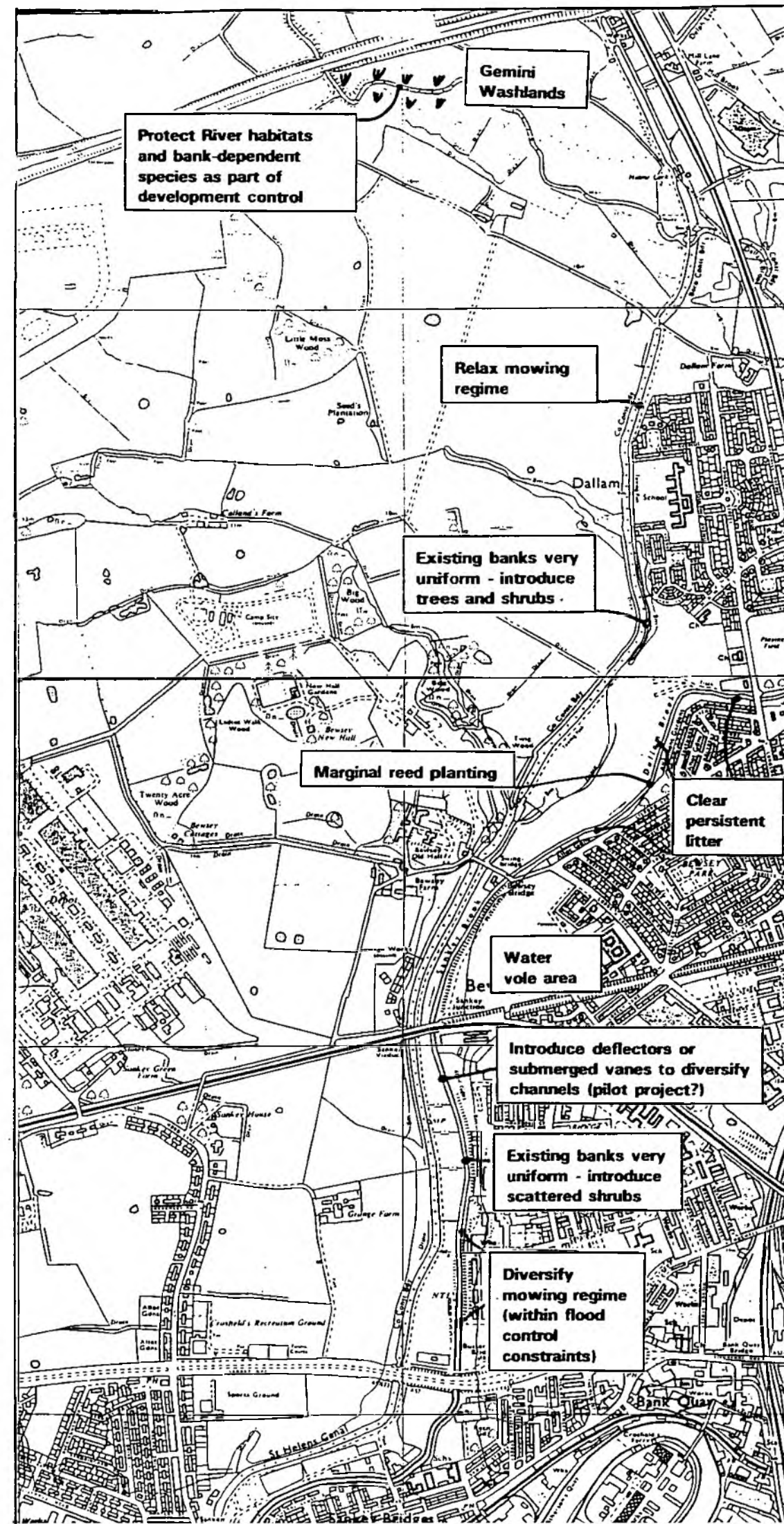


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Sankey NOW
River Valley Initiative
Conservation Assets Register

Title
Figure 10.2 Burtonwood and
Lower Newton Brook Action Plan

- Key**
- New access proposed
 - Existing access improved
 - New woodlands/trees proposed
 - New/widened buffer strip proposed
 - New floodplain wetland proposed

Drwg No TEP/150/13
Scale Not to Scale
Date May 1998
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SANKEY BROOK (WARRINGTON) ACTION PLAN

LANDSCAPE CONTEXT

Informal open space of Sankey Valley Park
River and Canal share corridor
High heritage value
Canal is important for angling
Poor banktop tree cover
Good access along watercourse
Uninteresting bankface vegetation

RIVER HABITATS

Water vole stronghold
Low River Habitat Quality
Extensive resectioning
Few marginal or reedbed habitats
No natural floodplain features except at Gemini Washlands

ACTION PLAN STRATEGY

Vary bankface mowing regimes
Allow water vole expansion
River margin reed planting
Create backwater channels where possible eg at Gemini washlands?



Project

Sankey NOW
River Valley Initiative
Conservation Assets Register

Title

Figure 10.3 Warrington
(Sankey Brook) Action Plan

Key

- New access proposed
- Existing access improved
- New woodlands/trees proposed
- New/widened buffer strip proposed
- New floodplain wetland proposed

Drwg No TEP/150/14

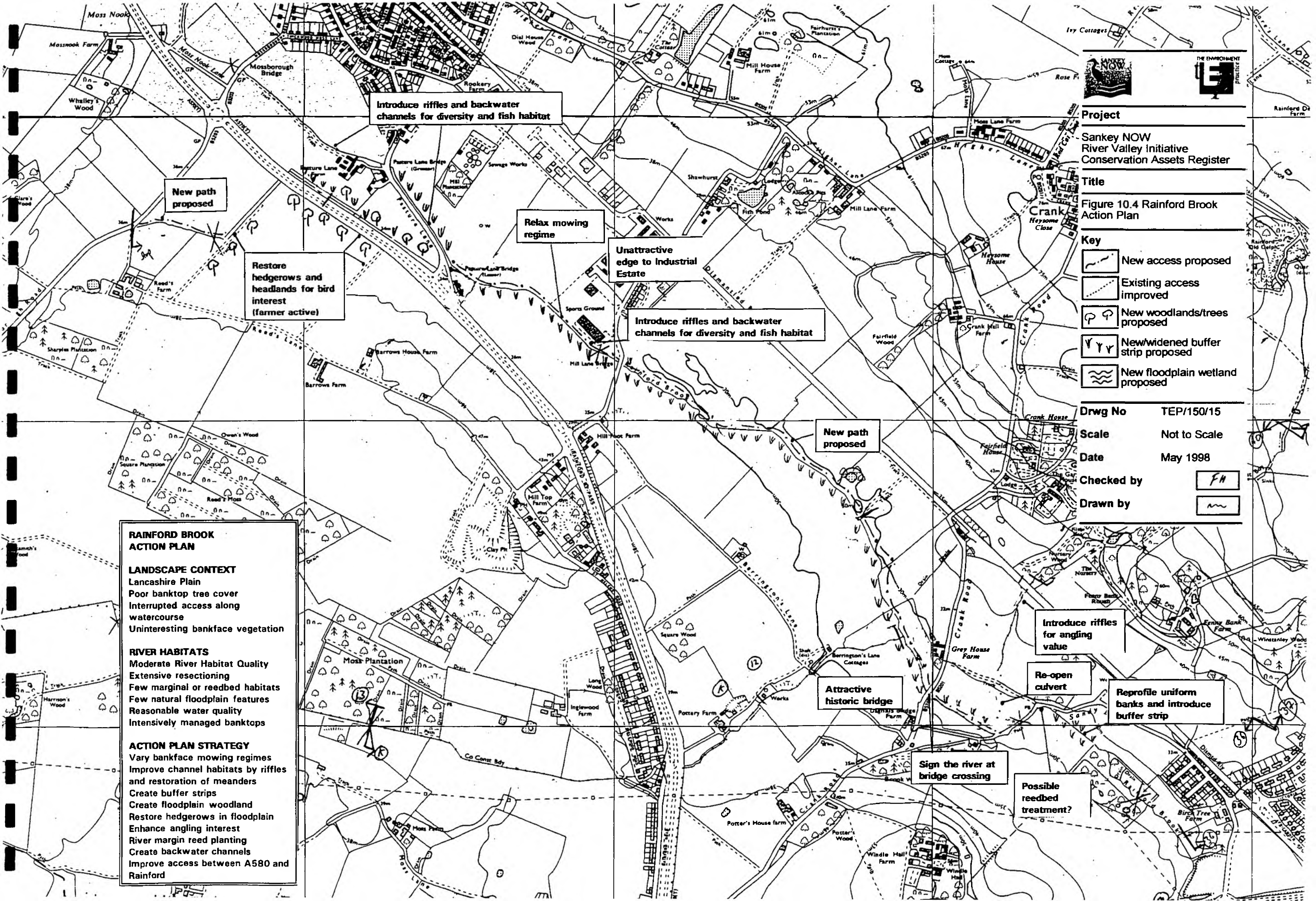
Scale Not to Scale

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Introduce riffles and backwater channels for diversity and fish habitat

New path proposed

Restore hedgerows and headlands for bird interest (farmer active)

Relax mowing regime

Unattractive edge to Industrial Estate

Introduce riffles and backwater channels for diversity and fish habitat

New path proposed

Attractive historic bridge

Sign the river at bridge crossing

Introduce riffles for angling value

Re-open culvert

Reprofile uniform banks and introduce buffer strip

Possible reedbed treatment?



Project
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Conservation Assets Register

Title
Figure 10.4 Rainford Brook
Action Plan

- Key**
- New access proposed
 - Existing access improved
 - New woodlands/trees proposed
 - New/widened buffer strip proposed
 - New floodplain wetland proposed

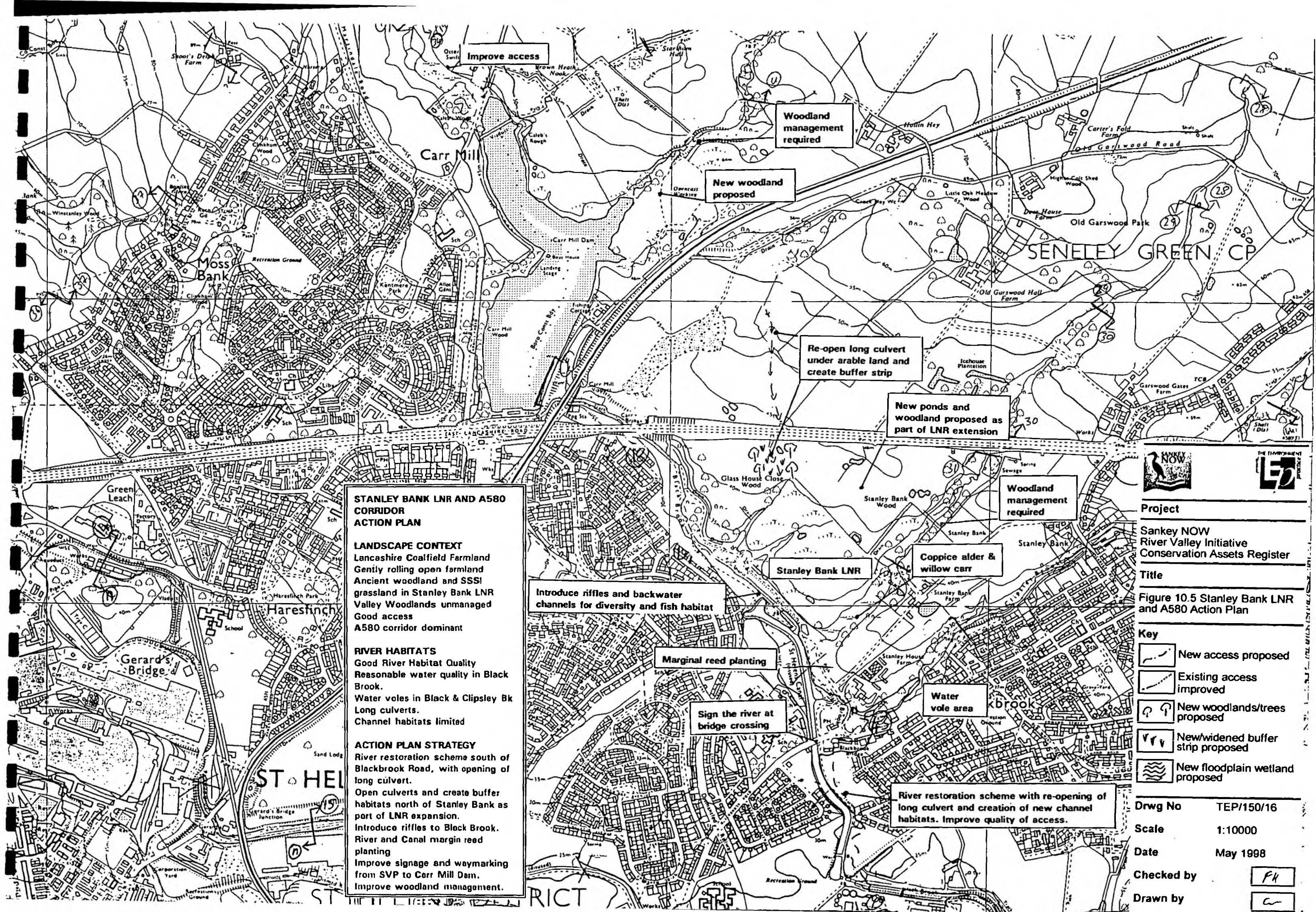
Drwg No TEP/150/15
Scale Not to Scale
Date May 1998
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RAINFORD BROOK ACTION PLAN

LANDSCAPE CONTEXT
Lancashire Plain
Poor banktop tree cover
Interrupted access along watercourse
Uninteresting bankface vegetation

RIVER HABITATS
Moderate River Habitat Quality
Extensive resectioning
Few marginal or reedbed habitats
Few natural floodplain features
Reasonable water quality
Intensively managed banktops

ACTION PLAN STRATEGY
Vary bankface mowing regimes
Improve channel habitats by riffles and restoration of meanders
Create buffer strips
Create floodplain woodland
Restore hedgerows in floodplain
Enhance angling interest
River margin reed planting
Create backwater channels
Improve access between A580 and Rainford





STANLEY BANK LNR AND A580 CORRIDOR ACTION PLAN

LANDSCAPE CONTEXT
Lancashire Coalfield Farmland
Gently rolling open farmland
Ancient woodland and SSSI grassland in Stanley Bank LNR
Valley Woodlands unmanaged
Good access
A580 corridor dominant

RIVER HABITATS
Good River Habitat Quality
Reasonable water quality in Black Brook.
Water voles in Black & Clipsley Bk
Long culverts.
Channel habitats limited






ACTION PLAN STRATEGY
River restoration scheme south of Blackbrook Road, with opening of long culvert.
Open culverts and create buffer habitats north of Stanley Bank as part of LNR expansion.
Introduce riffles to Black Brook.
River and Canal margin reed planting
Improve signage and waymarking from SVP to Carr Mill Dam.
Improve woodland management.





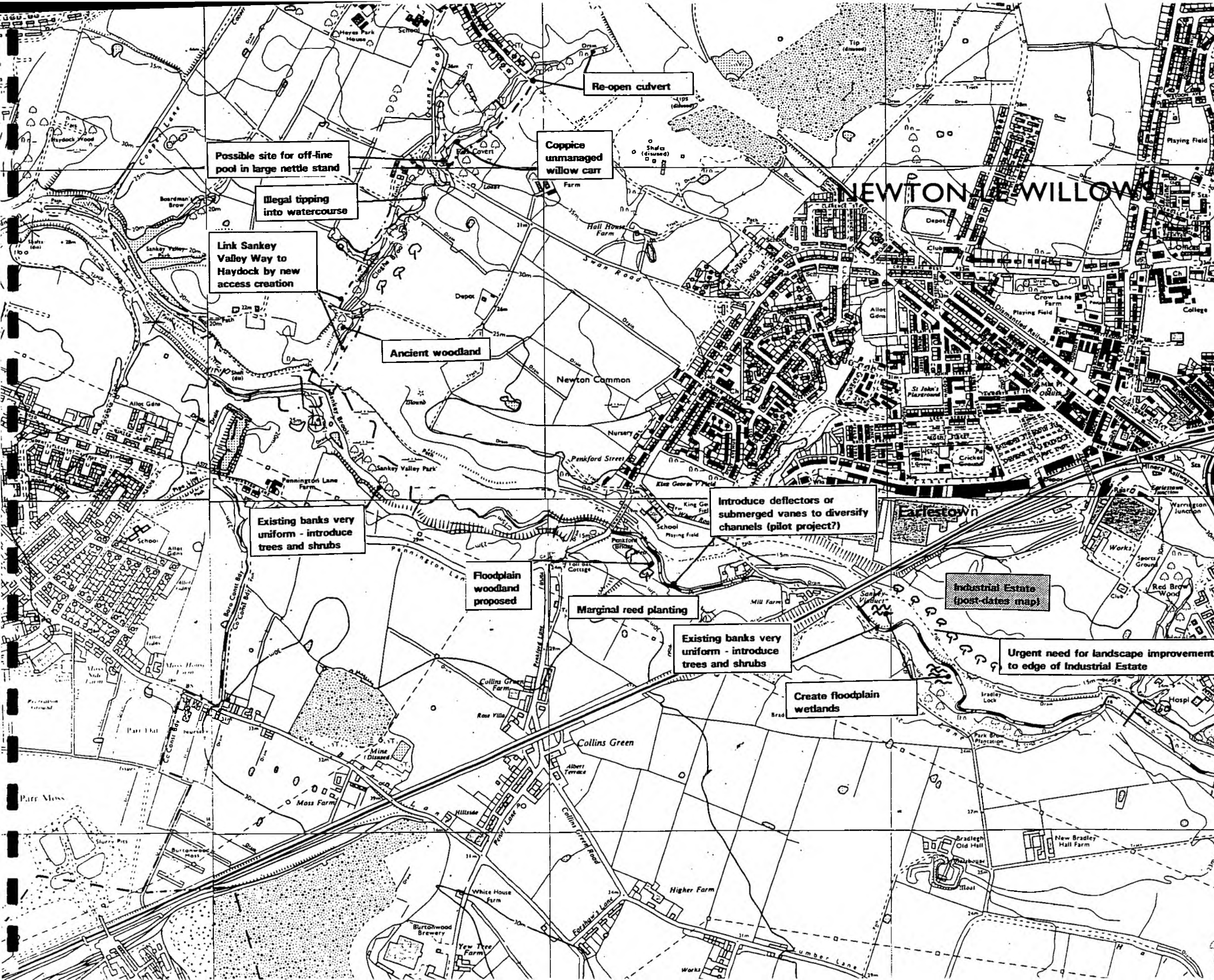
Project
Sankey NOW
River Valley Initiative
Conservation Assets Register

Title
Figure 10.5 Stanley Bank LNR and A580 Action Plan

Key

-  New access proposed
-  Existing access improved
-  New woodlands/trees proposed
-  New/widened buffer strip proposed
-  New floodplain wetland proposed

Drwg No TEP/150/16
Scale 1:10000
Date May 1998
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CLOGHE BROOK & SANKEY BROOK: ACTION PLAN

LANDSCAPE CONTEXT
Urban fringe farmland and informal open space
Ancient woodland unmanaged
Good access in Sankey Valley
Poor access between Haydock and Sankey Valley
Visual intrusion of very poorly landscaped Industrial Estate at Viaduct

RIVER HABITATS
Low River Habitat Quality (Sankey)
Low water quality.
Possibility of contaminated land
Channel habitats very limited.
Poor bankside tree cover (Sankey)

ACTION PLAN STRATEGY
Introduce vanes or deflectors to Sankey Brook.
River margin reed planting
Manage Cloghe Wood.
Address tipping and litter problems
Improve landscape quality of Industrial Estate
Create new floodplain habitats in Sankey Valley.

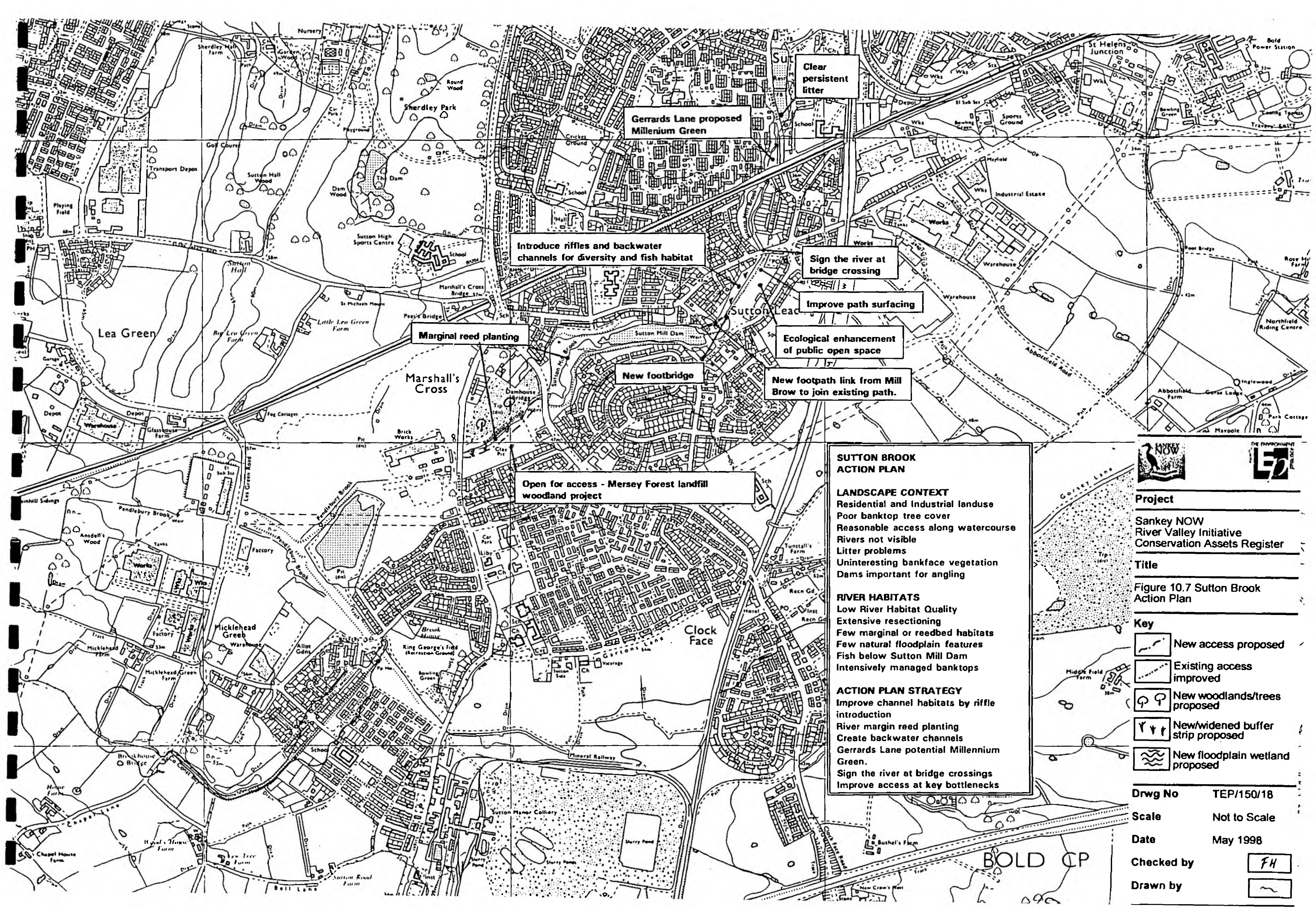


Project
Sankey NOW
River Valley Initiative
Conservation Assets Register

Title
Figure 10.6 Cloghe Brook and Sankey Brook Action Plan

- Key**
- New access proposed
 - Existing access improved
 - New woodlands/trees proposed
 - New/widened buffer strip proposed
 - New floodplain wetland proposed

Drwg No TEP/150/17
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Introduce riffles and backwater channels for diversity and fish habitat

Clear persistent litter

Sign the river at bridge crossing

Improve path surfacing

Ecological enhancement of public open space

New footpath link from Mill Brow to join existing path.

Marginal reed planting

New footbridge

Open for access - Mersey Forest landfill woodland project

SUTTON BROOK ACTION PLAN

LANDSCAPE CONTEXT
Residential and Industrial landuse
Poor banktop tree cover
Reasonable access along watercourse
Rivers not visible
Litter problems
Uninteresting bankface vegetation
Dams important for angling

RIVER HABITATS
Low River Habitat Quality
Extensive resectioning
Few marginal or reedbed habitats
Few natural floodplain features
Fish below Sutton Mill Dam
Intensively managed banktops

ACTION PLAN STRATEGY
Improve channel habitats by riffle introduction
River margin reed planting
Create backwater channels
Gerrards Lane potential Millennium Green.
Sign the river at bridge crossings
Improve access at key bottlenecks



Project
Sankey NOW
River Valley Initiative
Conservation Assets Register

Title
Figure 10.7 Sutton Brook
Action Plan

- Key**
- New access proposed
 - Existing access improved
 - New woodlands/trees proposed
 - New/widened buffer strip proposed
 - New floodplain wetland proposed

Drwg No TEP/150/18
Scale Not to Scale
Date May 1998
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BOLD CP