

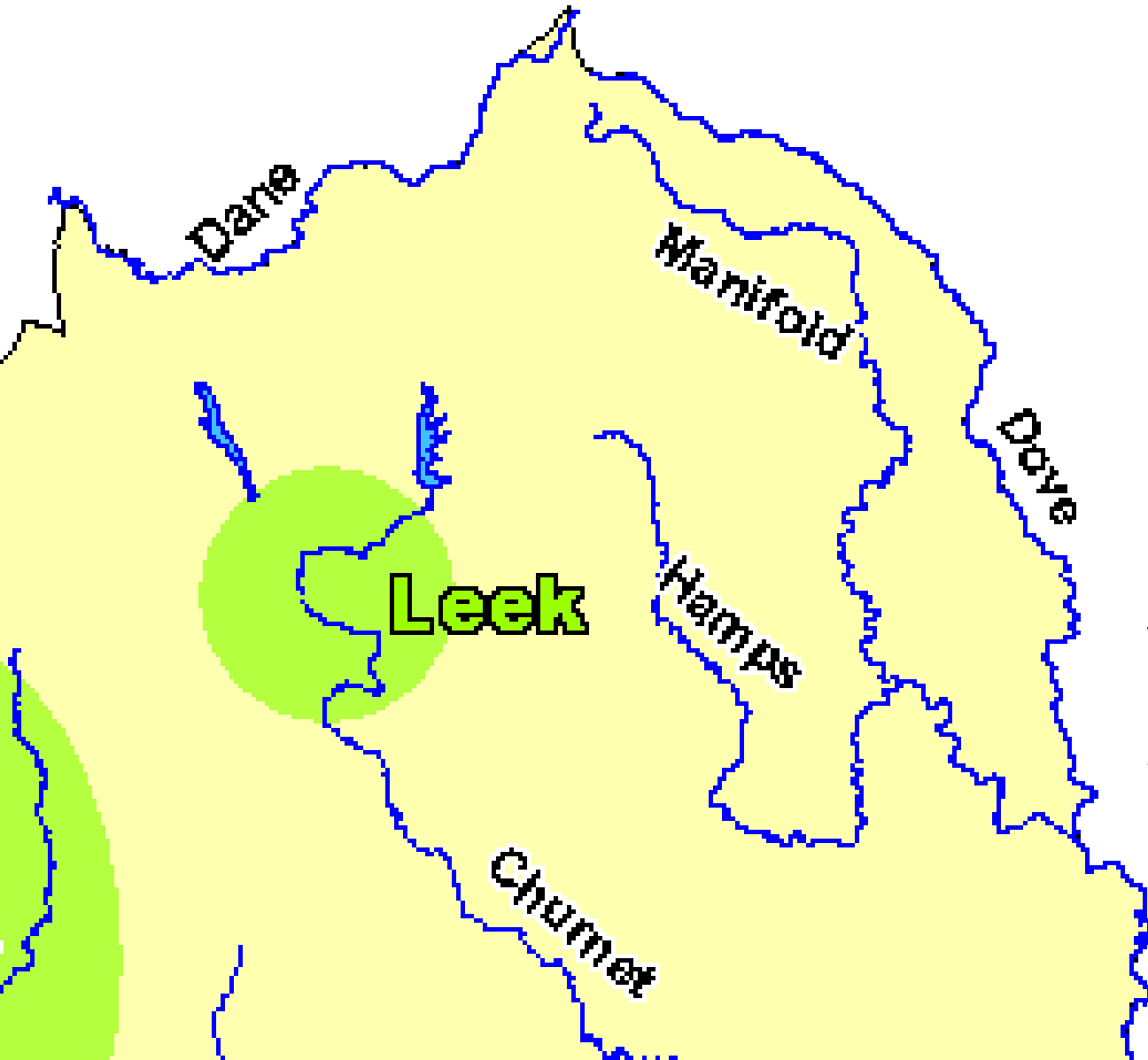


*Of Crayfish & Craneflies  
...Life in Upland Streams*



# *Upland Streams*

*Types;  
Assessment;  
Conservation;  
Montane mayflies;  
Crayfish Arks*



# *Importance of Small Streams*

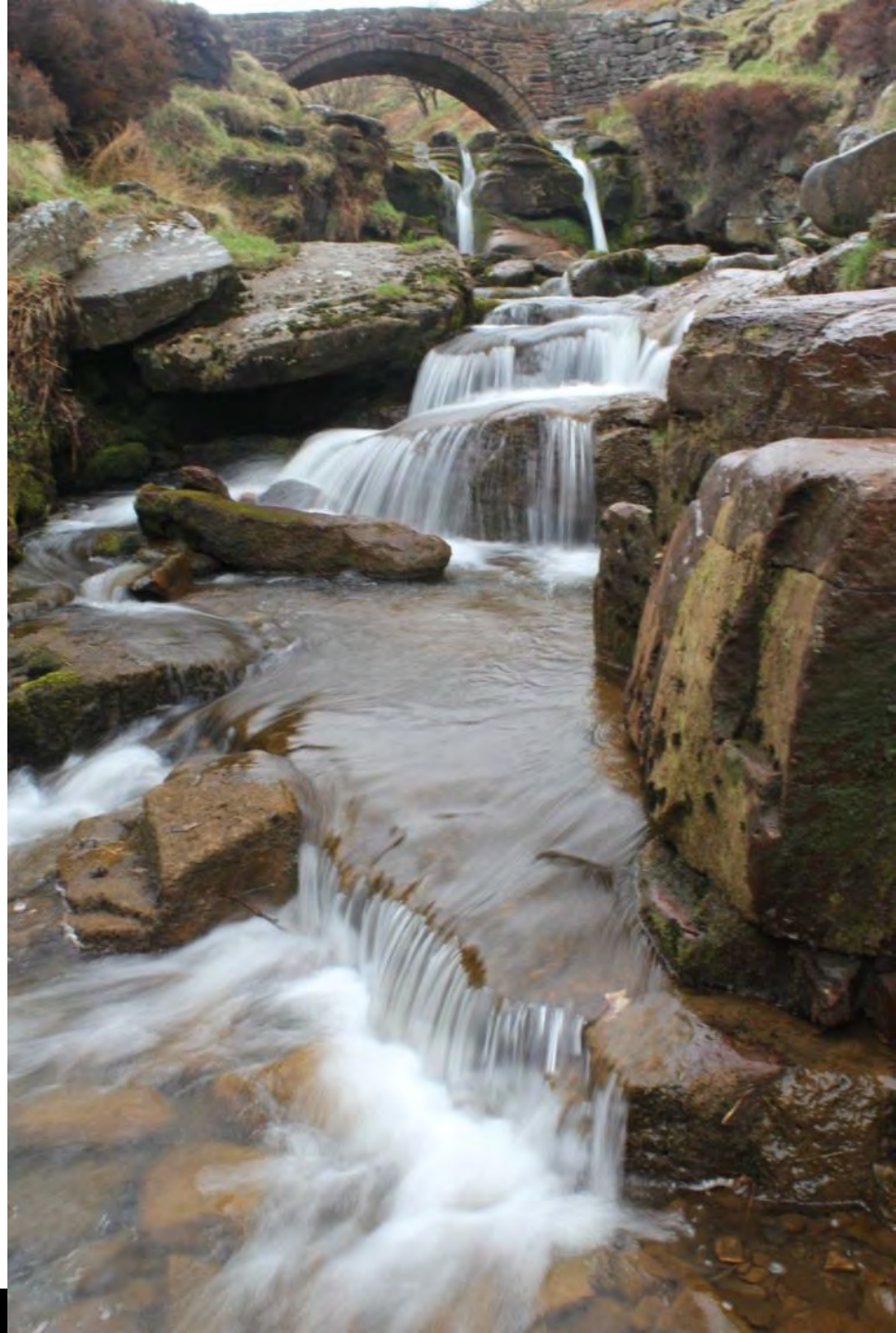
- Headwater & Tributary streams represent >80% of all watercourses
- Crucial for water quality, supply of nutrients & sediments for our main rivers
- Hotspots for Biodiversity



# *Limestone & Tufa Streams*



# *Moorland Hill Streams*

















# *Macro-invertebrate Surveys*





# Combes' Fingerprinting



Combes Brook sub-catchment streams	Site 1 Combes Brook Lower Lady Meadows Farm	Site 2 Combes Brook Apesford Farm	Site 3 Dirty Gutter Brook Lower Lady Meadows Farm	Site 4 Holly Dale Brook Brook Farm	Site 5 Holly Dale Brook Lane End Farm
BMWP score	135	116	112	153	119
ASPT	6.75	7.25	6.20	6.38	6.61
R	28	24	24	35	25
EPT(S)	18	17	13	19	13
Rel. abundance no./3min	797	502	511	803	750
LIFE(S) flow velocity	9.04	8.62	8.18	7.95	8.22
PSI(S) silt	94.83	88.64	73.33	79.03	82.61
Saprobic index organic	1.67	1.68	1.37	1.53	1.56
TRPI TRP	42.11	43.75	50.00	31.82	47.06
CCI	9.55	14.88	4.85	14.00	4.40

# Key to mapped data circle chronology: →



● ● Sample point:

○ Organic enrichment ○ TRP] enrichment ○ Flow ○ Siltation ○



Stress level descriptor	Colour code	PSI (sediment value)	TRPI (nutrient TRPI value)	Organic (Saprobic value)	Flow (LIFE value)
Heavily impacted	●	0-20	0-20	3.2 - 4	<6
Impacted	●	21-40	21-40	2.7 – 3.19	6 - 6.49
Moderately impacted	●	41-60	41-60	2.3 - 2.69	6.5 - 6.99
Slightly impacted	●	61-80	61-80	1.81 - 2.29	7.0 - 7.99
Un-impacted	●	81-100	81-100	1.0 - 1.80	>8.0



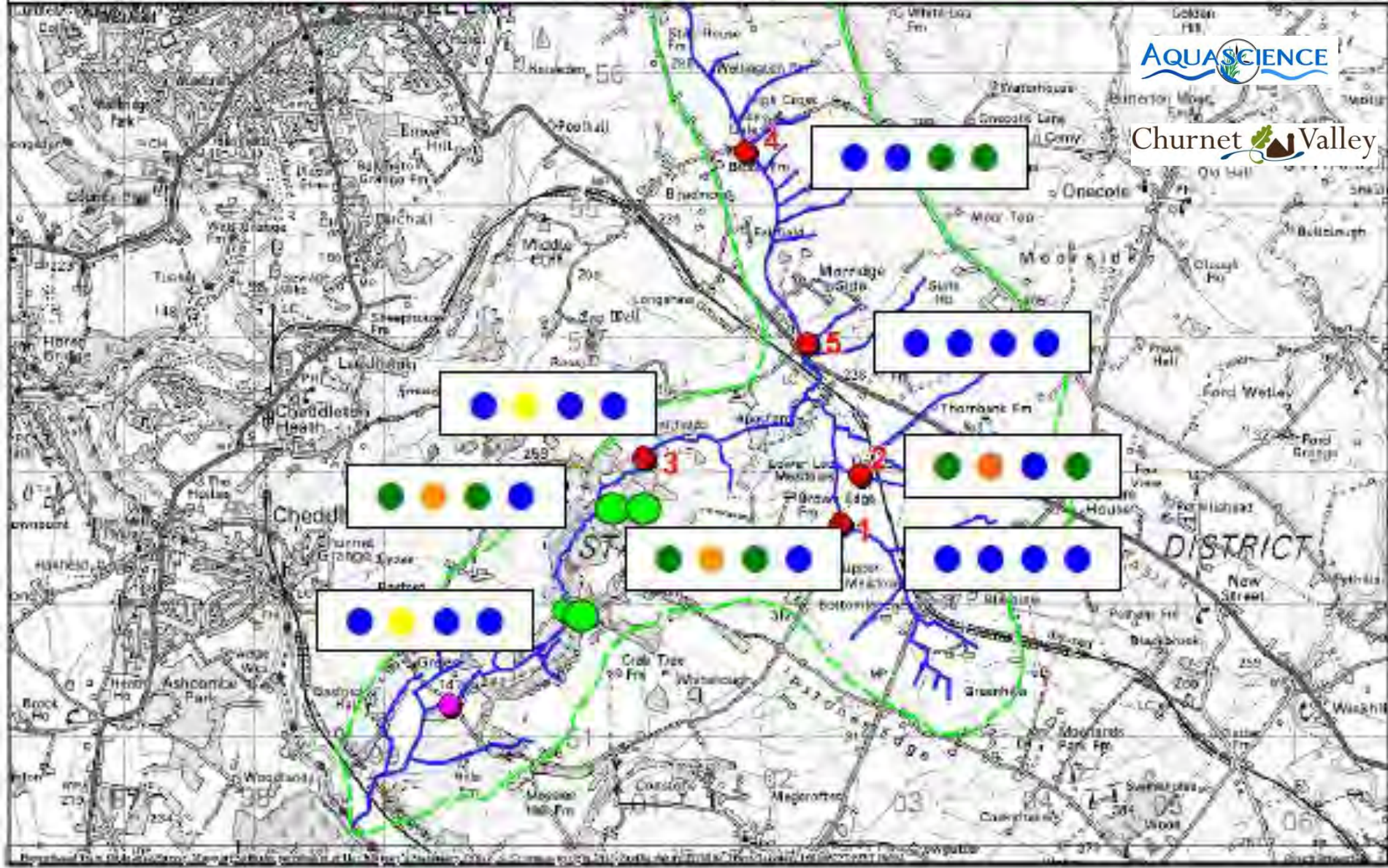


# Coombes Brook Catchment Project 2014-15

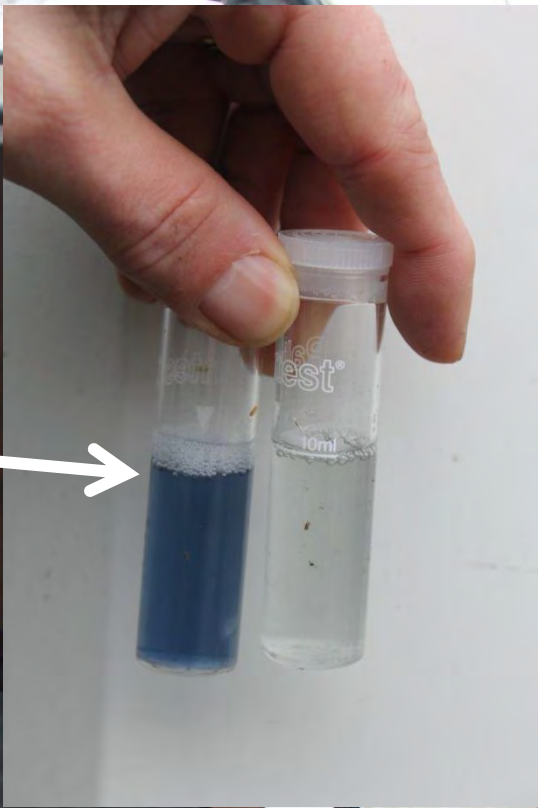
## Macro-invertebrate survey sites

● New Site; ● CVLLP Site; ● EA Site

Key:  
 — watercourse  
 — sub-catchment







**THE WILDLIFE TRUSTS**  
STAFFORDSHIRE

Staffordshire  
Wildlife Trust

Working for a Living Landscape

Low Emission Vehicle  
CO<sub>2</sub> 119g/km









**River Dove  
(ungrazed),  
Staffordshire.  
Sampled by J R Webb  
2013**

Number of species associated with each  
PANTHEON label

**River Till (ungrazed),  
Northumberland.  
Sampled by J R Webb 2013**

Number of species associated with each  
PANTHEON label

<b>Total Number of Species in Sample</b>	<b>83</b>	<b>50</b>
<b>Running Water Species</b>	<b>26</b>	<b>29</b>
<b>ERS Species</b>	<b>6</b>	<b>14</b>
<b>Riparian sand species</b>	<b>4</b>	<b>4</b>
<b>Riparian shingle species</b>	<b>1</b>	<b>8</b>









# *Montane Mayflies*









**SOUTH WEST PEAK**  
LANDSCAPE AT A CROSSROADS



**LOTTERY FUNDED**



**Environment  
Agency**



# *Crayfish in Crisis*

## **2017-21**

# *Slow the Flow Project*



**Cheshire**  
Wildlife Trust



**SOUTH WEST PEAK**  
LANDSCAPE AT A CROSSROADS

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*Questions?*

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