

Devon, Cornwall & Isles of Scilly 2019 to 2027



Vision and Noble Causes

Environment Programme Team
October 2018

Government 25 Year Environment Plan

1. Clean air.
2. Clean and plentiful water.
3. Thriving plants and wildlife.
4. A reduced risk of harm from environmental hazards such as flooding and drought.
5. Using resources from nature more sustainably and efficiently.
6. Enhanced beauty, heritage and engagement with the natural environment.
7. Mitigating and adapting to climate change.
8. Minimising waste.
9. Managing exposure to chemicals.
10. Enhancing biosecurity.

We are... creating a great place for living



Our vision

We are here to make our air purer, our water cleaner, our land greener and our food more sustainable.

Our mission is to restore and enhance the environment for the next generation, and to leave the environment in a better state than we found it.

Our objectives

To pass on to the next generation a natural environment protected and enhanced for the future

To lead the world in food, farming and fisheries with a sustainable model of food production

To deliver a safe and ambitious departure from the EU, setting global standards in protecting and harnessing value from the natural environment

To be an outstanding organisation focused on making a difference, with world class delivery capability

Our goals

1. Sustainable **FARMING** and **FOOD**
2. Pure **AIR**, clean **RIVERS** and a resilient water supply
3. Healthy **SEAS** and **OCEANS**
4. Beautiful **LANDSCAPES**, flourishing **WILDLIFE** and native species
5. Thriving **RURAL ECONOMIES** and communities
6. Efficient **RESOURCE USE** and reduced waste
7. Protecting **ANIMALS** and **PLANTS** from health risks
8. Resilient **COMMUNITIES** and economies
9. Great **PLACES FOR LIVING** for people and animals
10. Green **GLOBAL BRITAIN**

Our principles



Together we are building
a green and healthy future

Our vision: Create a better place for people and wildlife

Our purpose: Protect the environment and promote sustainable development

Our priorities are to:

- Work with businesses and other organisations to manage the use of resources
- Increase the resilience of people, property and businesses to the risks of flooding and coastal erosion
- Protect and improving water, land and biodiversity
- Improve the way we work as a regulator to protect people and the environment and support sustainable growth

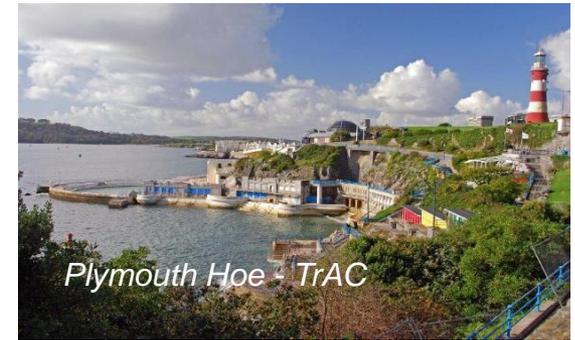
Our objectives for 2016 to 2020:

- A cleaner, healthier environment which benefits people and the economy.
- A nation better protected against natural threats and hazards, with strong response and recovery capabilities.
- Higher visibility, stronger partnerships and local choices.

Directives, Regulations and Acts

- Water Framework Directive (WFD)
 - Shellfish Water Directives
 - Environmental Quality Standards Directive
- Ground Water Directive
- Bathing Water Directive
- Habitats Directive
- Nitrates Directive
- Industrial Emissions Directive
- Environmental Permitting Regulations
- Water Industry Act
- Water Resources Act
- Nitrate Pollution Prevention Regulations
- Environmental Damage (Prevention and Remediation) Regulations
- Floods and Water Management Act

Our Water Environment



Number of water bodies	Ecological status or potential					Chemical status	
	Bad	Poor	Moderate	Good	High	Fail	Good
56	0	3	38	15	0	1	55

Plymouth TraC – Moderate (MMA)

Plymouth Sound – Moderate (TIN)

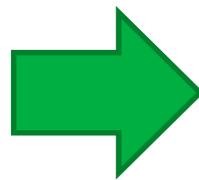
Plymouth Coast – Good

Pressures:

- Nutrients/Sediment
- Modification
- Metals

Main Sources:

- Agriculture
- Water & other industry
- Heavy Modification e.g. Flood Risk
- Wastewater from abandoned metal mines



Chemical

Biological

Hydro-morphological



Quality of Water Environment

Tavy Catchment

Waterbody Assessment

Burn Tavy

- Copper and Zinc (diffuse, point sources and natural)

Walkham

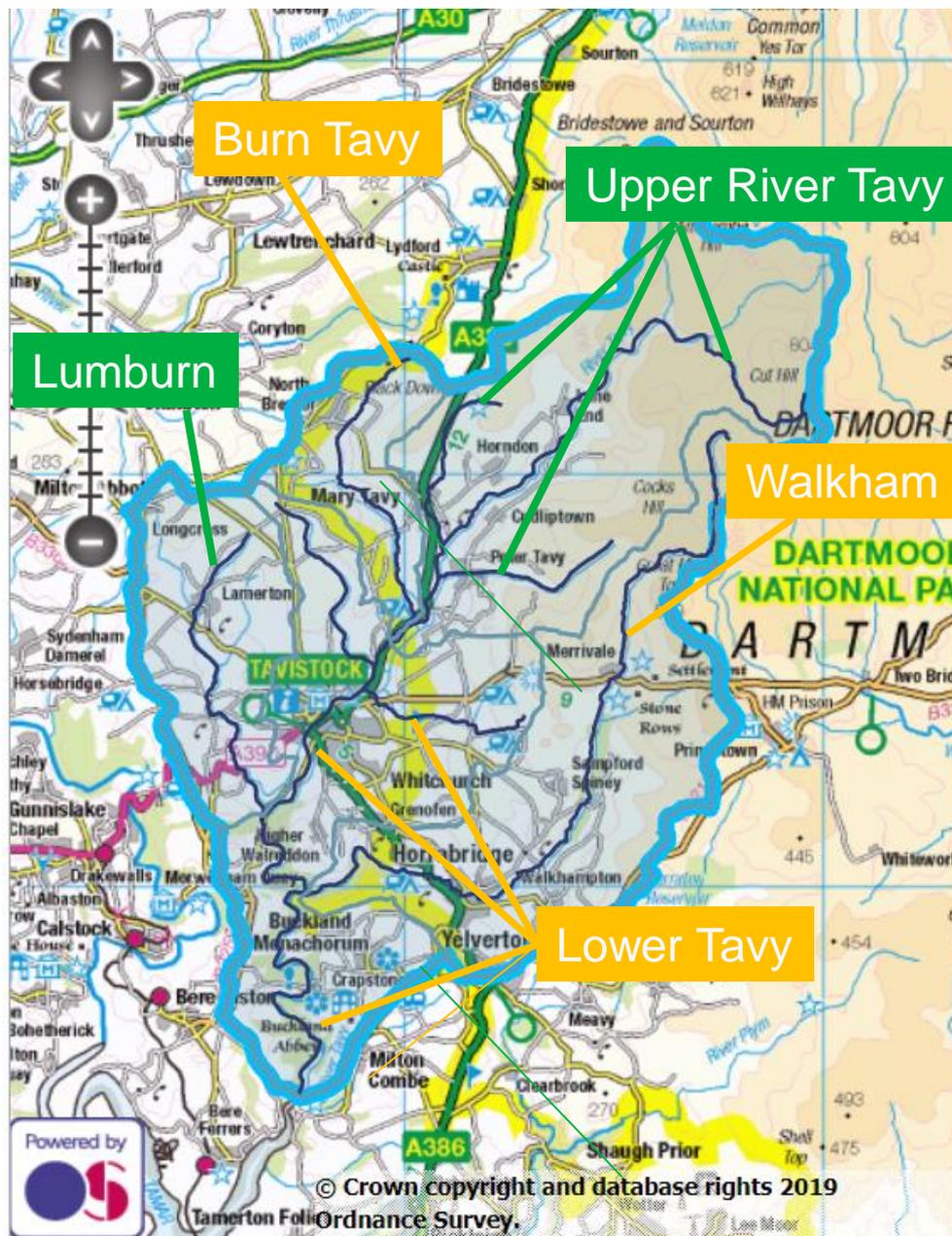
- Fish (Morphology)

Lower Tavy

- Phosphate (Domestic and Industry)

Improvement Projects

- Three Rivers
- Sheep Dip Assessments
- Wastewater abandoned metal mines
- Dartmoor NFM Pilot
- Forestry Best Practice
- Catchment Sensitive Farming Advice
- PR19 Actions x 8



River surface water operational catchment



Our Area Vision is a sustainable, healthy and safe water environment.

A living catchment that is respected, harnessed, appreciated, enjoyed and cared for by our communities, businesses and visitors working in partnership.

A great Area that benefits our wildlife, economy, prosperity and well-being.

Picture: River Tamar at Calstock

DCIoS Area Vision

- Multiple issues
- Multiple benefits
- Drive Noble Causes

- Working with natural processes
- Natural Flood Management
- Good soil husbandry
- Planning and growth
- Cost and resource efficient

- Water Quality
- Designated sites
- Ecological Status
- Hydromorphology
- Chemistry
- Biology

- Drinking water
- Shell Fisheries
- Bathing Waters
- Recreational
- Flood Risk Management
- Managed invasives

- Lakes/Reservoirs
- Groundwater
- Non main rivers
- Moorland streams
- Rural drainage
- Urban drainage
- Rivers
- Estuaries
- Coast

Our Area Vision is for a sustainable, healthy and safe water environment.

A living catchment that is respected, harnessed, appreciated, enjoyed and cared for by our communities, businesses and visitors working in partnership.

A great Area that benefits our wildlife, economy, prosperity....our all-round well-being.

DCIoS Area Vision

- Willingness to pay
- Protection
- Support action
- Peer pressured compliance
- Cultural
- Proud

- Ecosystem Services (incl C sequestration, fish habitat, water polishing etc.)
- Clean Energy
- Tourism
- Recreation

- Valued
- Desire to grow natural capital
- Heritage (environmental and industrial)
- 'Sustainable Harvesting'

- Recognised
- Integral
- Opportunities to enjoy
- Health & well being

- Behaviours/attitudes/values
- Business Compliance
- Decision Making

- People
- Wildlife
- Priority Habitats
- Priority species
- Protected species

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- > 2 x national average
- Vision is their passport
- Participative eco-tourism

- Integrated Catchment Management
- Catchment Based Approach
- Ownership

- Local – dependent
- National – CSR
- LEP
- Chamber of Commerce
- Productivity
- Integrate the Vision
- Supply Chain
- Business Culture
- Tourism
- Transportation

- Residents
- Charities/NGO's
- Clubs
- Associations
- Parish Councils
- Local Authorities

DCloS Area Vision

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A great Area that benefits our wildlife, economy, prosperity and well-being.

- DCloS “greater” place for people and wildlife

- Derived from Environmental Outcomes
- Multiple benefits
- Wide range of benefit values
- Support ecosystem services and Natural Capital
- Drives investment programmes eg GiA and WEIF

- Key tangible indicator/measure
- Protect and enhance
- Above national indices
- Support natural processes
- Co-existence vs human conflict

- Integral to business plans
- Supports growth ambition
- Reduces costs – WWNP
- Influences key decision making
- Prosperity shared
- Vision achievement

Noble Causes

- **Land management**

Collaboratively drive land management decisions that increase the total value of our natural capital assets and reduce risks of environmental hazard. This will be achieved through the use of natural resources more efficiently and attracting additional investment through sustainable growth in the built and agricultural environments.

Healthy and productive soils is an example of a critical asset that will increase the flow of benefits such as clean and plentiful water reducing harmful bacteria in our designated bathing waters and reducing flood risk, increasing woodland cover and management.

- **Species and Habitat**

We will achieve a growing and resilient network of land, water and sea that is richer in plants and wildlife through increasing the value and resilience of terrestrial and freshwater habitats, prioritizing protected sites, creating or restoring 7500 hectares of wildlife-rich habitat outside the protected site network. We will focus on priority habitats such as Culm Grasslands, Peatlands and Wetlands. In partnership we will take action to recover priority species, such as Salmon, Eel, Alis Shad, Marsh Fritillary and where possible to prevent extinction of threatened species such as the Freshwater Pearl Mussel.

- **Estuaries & Coast**

The beautiful, unique and varied environment of Devon, Cornwall and the Isles of Scilly challenges us to work creatively and find innovative ways to protect and enhance our places, particularly our estuaries, beaches and coastline. Tourism, population dynamics, extreme weather, agriculture and marine industry can present risk but also opportunity to grow our natural capital. We will increase the value of our coasts and estuaries through reducing pollution (including plastic) in our freshwater and marine waters, make water safer for users and wildlife, optimise shellfisheries, create more resilient communities and habitats that adapt to climate change.

- **Waste water from abandoned metal mines**

We are proud of our world renowned and unique mining heritage in Devon and Cornwall and recognise the pressures that this legacy places on our water environment. We will reduce the levels of harmful chemicals from mine waste water entering the environment from diffuse and point sources, working in partnership with our communities, the Coal Authority, Universities and Local Authorities.

What we will achieve by 2027 in DCIoS

- Improved 55 water bodies from moderate to good status/potential and sustain those at good.
- Improved up to 2000km of water body.
- No poor water bodies where technically and economically feasible.
- Achieved the required drinking water standards in our DWPA by 2027.
- A water environment that has grown stronger with regional economic productivity and growth
- Interventions in place to prevent diffuse pollution from mine waters.

- Improved our failing Bathing Waters will maintain those at good or excellent.
- Given our shell fisheries the best opportunity to thrive and not constrained by poor water quality.
- Integrated planning and delivery activities across coast, estuary and rivers.

- Population increases in priority fish species through easement, habitat and water quality improvements.
- Improved management of invasive species, enabling native wildlife to thrive.
- Created or restored up to 3000 Ha of priority habitat..

- Consistent approach to managing soils with pilot and benchmark sites established.
- Ensure that Climate adaptation forms an essential part of all Catchment Plans.
- Worked with Natural Processes to increase the quality of water and habitat, reducing flood risk
- Robust partnership agile monitoring programme to help assess catchment condition

Upstream Thinking

Nitrate Vulnerable Zones

Rules for farmers

Catchment Sensitive Farming

Agri-supply chains

Soil Management

Wastewater Abandoned Metal Mines

Fish & Eel Passage

Calstock Flood Improvements

Intereg Sammarsh

Plastic & Sustainable waste

Public Review 19 (50)

LOCATE

SaS

Hazardous Waste Marine

Plymouth Central Improvements

Fish Habitat Assessments

Lyd Fish Habitat Improvements

Diffuse run off Improvements

Farm Advice and Interventions

Sheep Dip Assessment

Natural Flood Management

Mire restoration

Tamara HLF Landscape Habitat Improvements

Invasive Species Giant Hogweed

Farm Facilitation Funds

Plymouth Surface Water Separation

