

Good Management Practices in Forestry

Reducing Diffuse Pollution from Forestry Related Activities in Galloway and Eskdalemuir Forests

John Gorman

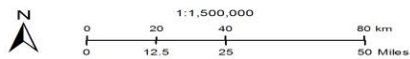
Senior Environment Protection Officer

Project Aims

- Improve Communication links with State and private forestry – liaison meetings
- Workshops, awareness days, training & site visits, shared learning
- Site inspections –clearfelling, restocking, drainage works, road construction, quarries, pesticide/herbicide/fertilisers applications
- Help develop Best Practice Guide for forestry activities via DPMAG

Main Problems

- Siltation from ground preparation, cultivation, harvesting and restocking
- Contaminated run-off from roadways
- Historical drainage systems
- Standing sales
- National disease obligations versus FWG5
- Quarry runoff
- Natural Regen
- Waste

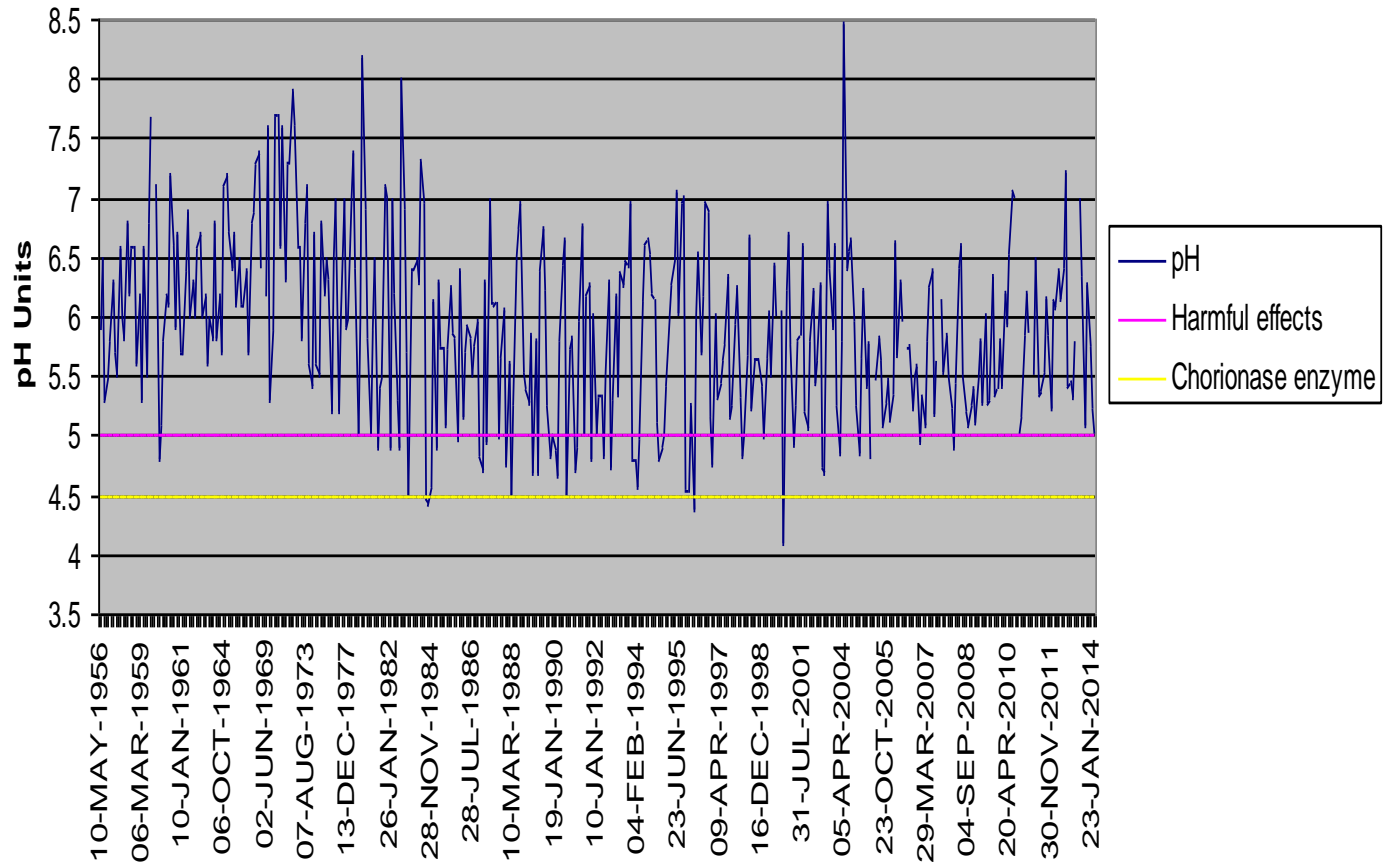


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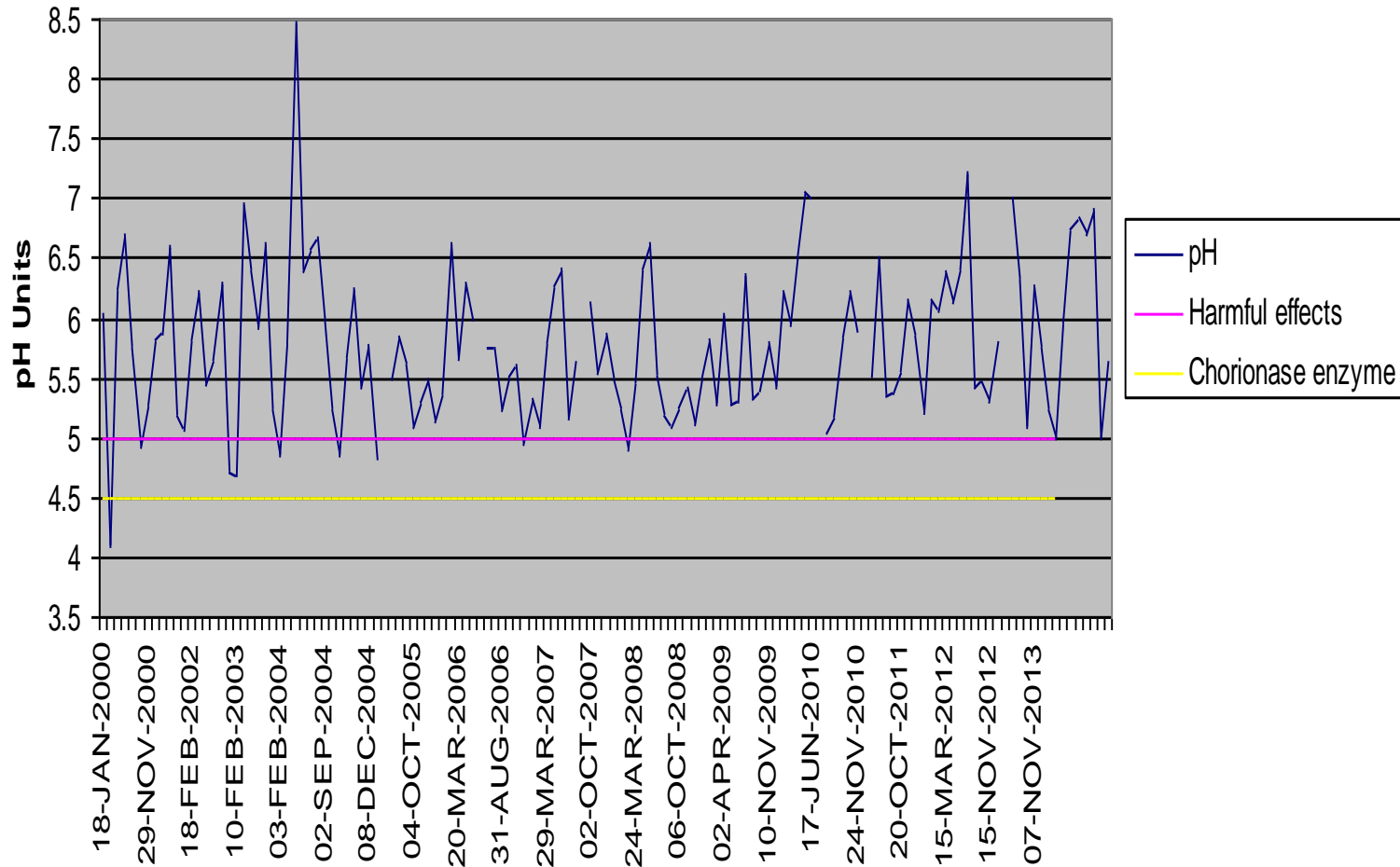
Forestry HARMS roadshow

What is Diffuse Pollution

River Cree at Bargrennan



River Cree at Bargrennan



Forwarder brash track decomp



Timber Stack near Burn



Forestry Inspections

Summary – February 2015

Total Inspections	216
Compliant	159 [74%]
Non Compliant	57 [26%]
Pollution Incidents	48
GBR20	32
GBR21	46
GBR22	6

Breaking the Source/Pathway/Receptor



DRAINAGE, DRAINAGE, DRAINAGE !!



CHRONOLOGICAL DRAINAGE REVIEW

- **FWG2, 1991 [23 Years ago]** prevent roadside drains discharging direct to watercourses; where unavoidable provide silt traps and maintain them regularly.
- **FWG3, 1993 [21 Years ago]** Roadside drains carry high sediment load must not be allowed to directly connect to watercourses, re-direct to buffer areas
- **FWG4, 2003 [12 Years ago]** Old drain clearing presents high risk of pollution, drains should be realigned to ensure volume flows onto vegetated ground and NOT into watercourses. Existing drains should not drain directly into watercourses
- **FWG5, 2011 [3 Years ago]** Realign existing drains, avoid watercourse connections, redirect to buffer zones

Historical roadside ditches - Disconnect



Solution – Sump and Natural filter

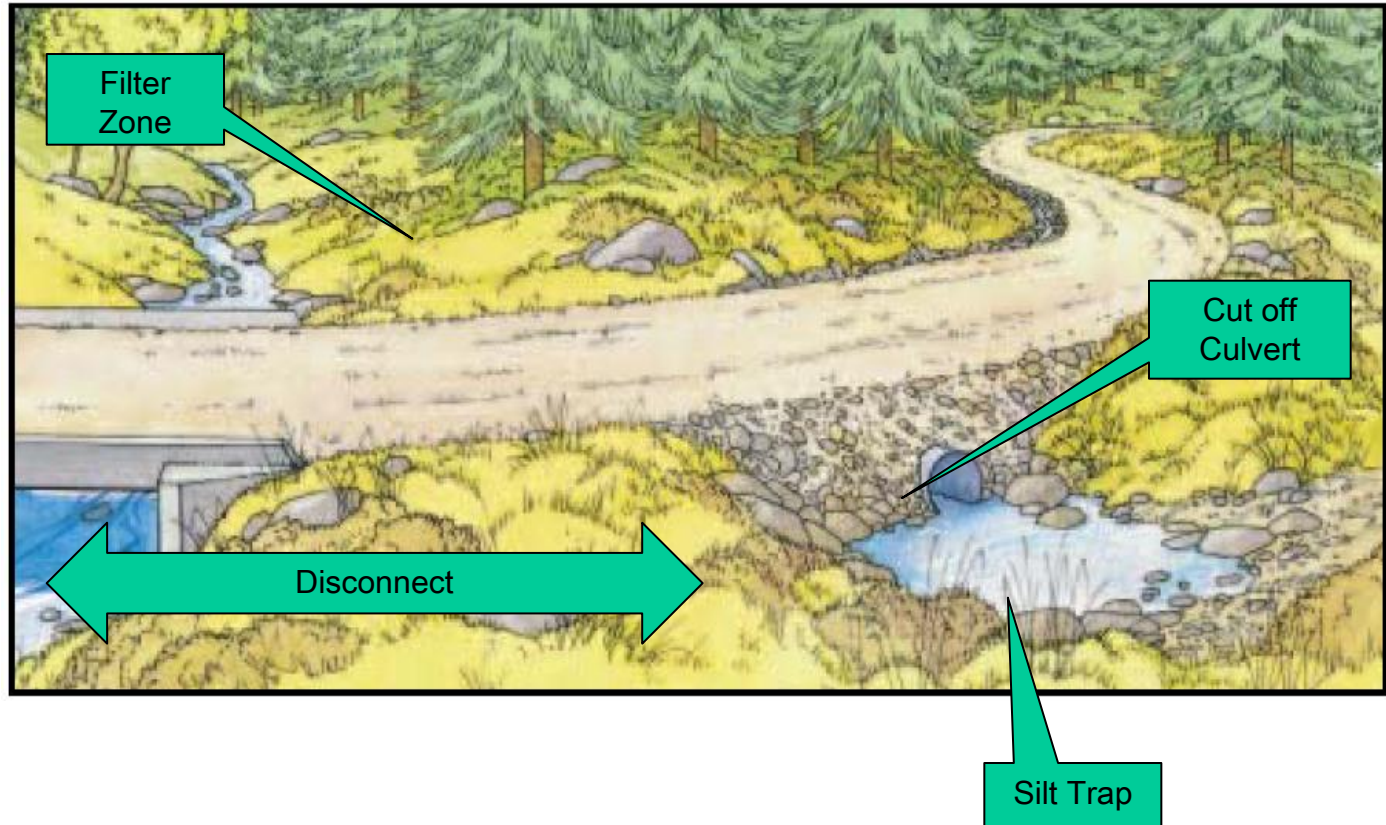


Receptor protected



Disconnection

FC Operations Note 25 - Roadside drain



Communication



Poor Communication & Site Responsibilities



Poor Crossing Point



Culvert Blocked



New Grip Drain for spring water



Dry Crossing Point



Contractor Competency Dalwhat Burn



Dalwhat Burn 1Km D/Stream



Dalwhat Burn 4Km d/stream



Galloway Flailing



What & Why



Working Quarries High Pollution Risks



Poor Rock Quality & Gross Pollution



Iron & Unknown Leachate



Quarry Runoff



Roadside Ditch Sump



Grass Swale Soakaway



Irish pipe bridges



Polbae IPB Before



Polbae IPB After



Waste



Contractor Waste Dumped in Woods



Contractor Waste behind Caravan



Good & Bad Forestry 1



Good & Bad Forestry 2



Good & Bad Forestry 3



Terram Trials



Terram in RSD



SUMMARY

- A Good Management Practice “Champion”
- Competency attainment for contractors
- Contracts – Duties & Responsibilities
- Urgent need for Do’s and Don’t’s Guide
- Good Quality Site Pre-Planning, Work Plans-
Pull out flow chart of key decisions & tick list
- Themes:
 - [1] Clear lines of communication
 - [2] Improved site management
 - [3] Pollution prevention NOT remediation
 - [4] Guidelines are’nt seasonal
 - [5] Carrot and Stick
 - [6] Scotland’s wet, Plan for it

**“The bitterness of poor
Quality is remembered long
after the sweet taste of low
price has faded from
memory”**

Aldo Gucci

**“Quality is doing it right
when no-one is looking”**

Henry T Ford

Thank you



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