Soil Hydrology

Sample No: 1319
Map No: 6
Date: 2nd July 2009

Area / town: Letterkenny
County: Donegal
Northing: xxxx
Easing: xxxx
Elevation: 38m
Magnitude and direction of change: na

Site location in field: xx

Soil Type: _
Special characteristics: _
Farmer’s name: xx

Site type: [x] Grass  [ ] Arable  [ ] Peat  [ ] Forest  [ ] Fallow
(All that apply)

Arable crop name … Perennial Rye-grass ………………

Grass: [ ] Good  [ ] Fair  [ ] Poor  [ ] Rough
Slope: [ ] Flat (1˚)  [ ] Undulating (2 – 6˚)  [ ] Rolling (7- 12˚)  [ ] (Steep) (13˚ +)
Soil Texture: [ ] Sand  [ ] Loam  [ ] Fine  [ ] Peat  [ ] Clayey

Soil colour: brown
Water Table

Is there any evidence to suggest a high water table?
No

Is there surface water in the field or are there signs of recent surface water?
No

Is there any evidence to the soil been recently water logged
some orange bits/mottelling

Any other observations?
Seems to be some straw at 5cm in parts, assume its dung/straw been spread

Soil Profile

Is there an organic layer present, if so what is the depth?

Describe all other profiles present using the box below to sketch the profile

<table>
<thead>
<tr>
<th>Profile 1</th>
<th>Profile 2</th>
<th>Profile 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layer</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Depth</td>
<td>0-22</td>
<td>22-30</td>
</tr>
<tr>
<td>Texture</td>
<td>Fine</td>
<td>More clay/sticky</td>
</tr>
<tr>
<td>Colour</td>
<td>Brown</td>
<td>Yellow</td>
</tr>
<tr>
<td>Gravel</td>
<td>Not much stone</td>
<td>No</td>
</tr>
<tr>
<td>Roots</td>
<td>Grass 0-5</td>
<td>No</td>
</tr>
<tr>
<td>Earthworm</td>
<td>1</td>
<td>No</td>
</tr>
<tr>
<td>Iron Pan?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other comments</td>
<td>More clay. Rolls into a ball</td>
<td></td>
</tr>
</tbody>
</table>

Not that many roots at this site
Site Photos

Site
Trench 1 Profile
Trench 2
2C Profile
3C Profile
Infiltration Rates

Site 1319 Surface Infiltration

Site 1319 15cm Infiltration