4/5/2022

Mc Shane Jack

LYIT

Experiment Portfolio – Craignahorna 4

RIVERS Project

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# Procedure

* Identify rivers and streams for testing.
* Create test waste objects.
  + Plastic Clear Bottle
  + Plastic Labelled Bottle
  + Clear Plastic Bag
  + Coloured Plastic Bag
  + Tin Can
* When on location, document test information.
* Mark camera area for testing.
* Start camera recording, taking a snapshot of each piece of waste.
* Release waste and collect once it has passed.
* Repeat three times at each location
* Estimated Times\*
  + 10.00 am
  + 3.00 pm
  + 7.30 pm

# Experiment Apparatus (Insert Pictures When Carried out)





# Time 1 – 11.00am

## Experiment 1

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 1954 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 1976 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 1986 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 2005 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 2014 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 2034 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 2055 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 2090 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 2108 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 2150 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 2170 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Bright, FC = 2230 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Noon |
| Wind Speed | 37 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

# Time 3 – 7.30pm

## Experiment 3

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Dull, FC = 178 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Evening |
| Wind Speed | 45 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Dull, FC = 169 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Evening |
| Wind Speed | 45 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Dull, FC = 162 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Evening |
| Wind Speed | 45 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Overcast, cloudy |
| Light Conditions | Rain and Dull |
| Date | Dull, FC = 161 |
| Vegetation | 05/01/2022 |
| Season | Stoney, Mossy |
| Humidity | Spring |
| Time of Day | 92% |
| Wind Speed | Evening |
| Water Speed and Depth | 45 km/h |
| Waste Type | 5 Knot, 4 ft deep |
| River Location and Name | Rubbish |
| Water Clarity | Craignahorna |
| Tidal | Foggy |
| Angle of Sun | Bog Stream |
| Capture Mode | N/A |
| Duration | DSLR |
| River/Stream Width | 1 hr |
| Temperature | 4 Metres |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Dull, FC = 160 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Evening |
| Wind Speed | 45 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Coloured Bottle

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Dull, FC = 155 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Evening |
| Wind Speed | 45 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Dull, FC = 152 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Evening |
| Wind Speed | 45 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Dull, FC = 150 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Evening |
| Wind Speed | 45 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Clear Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Dull, FC = 147 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Evening |
| Wind Speed | 45 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 1 |

|  |  |
| --- | --- |
| **Test Number** | **1** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Dull, FC = 142 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Evening |
| Wind Speed | 45 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 2 |

|  |  |
| --- | --- |
| **Test Number** | **2** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Dull, FC = 138 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Evening |
| Wind Speed | 45 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |

### Plastic Coloured Bag

|  |  |
| --- | --- |
| Name: | Jack McShane |
| Project: | RIVERS: Real-Time Identification of Various Environmental Pollutants in Rivers |
| Test Number: | 3 |

|  |  |
| --- | --- |
| **Test Number** | **3** |
| Weather Conditions | Rain and Dull |
| Light Conditions | Dull, FC = 130 |
| Date | 05/01/2022 |
| Vegetation | Stoney, Mossy |
| Season | Spring |
| Humidity | 92% |
| Time of Day | Evening |
| Wind Speed | 45 km/h |
| Water Speed and Depth | 5 Knot, 4 ft deep |
| Waste Type | Rubbish |
| River Location and Name | Craignahorna |
| Water Clarity | Foggy |
| Tidal | Bog Stream |
| Angle of Sun | N/A |
| Capture Mode | DSLR |
| Duration | 1 hr |
| River/Stream Width | 4 Metres |
| Temperature | 9 Degrees |