Description of the site:

Width:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Depth |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


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| Depth |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


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| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Depth |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Wetted perimeter:

Velocity:

| Position | Time |  |  | Total | Average time <br> (total/3) |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 |  |  |
| Near |  |  |  |  |  |
| Midstream |  |  |  |  |  |
| Far |  |  |  |  |  |

Bedload:

| Distance <br> from near <br> bank | Pebble Size |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 |  | Total |
| Average |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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## Calculations:

Cross-sectional Area:
A $=$ Width $x$ Mean Depth

Wetted perimeter:
The total length of the bed and bank sides that is in contact with the water in the channel.

Hydraulic Radius (Efficiency):
The ratio between the area of the cross-section of the river channel and the length of its wetted perimeter. The greater the Hydraulic radius the more efficient the river.
$H R=\frac{\text { Cross sectional area }}{\text { Wetted perimeter }}$

## Discharge:

The amount of water originating as precipitation that reaches the channel by surface runoff, throughflow and baseflow. Velocity of the river V, (m per second, ), multiplied by the cross-sectional area of the river, A , ( sq m ). This gives the volume in $\mathrm{cu} \mathrm{m} / \mathrm{sec}$ or cumecs.
$D=A x V$

