

「河川整備に伴う河川環境の 課題と今後の展望(その2)」 石組み魚道

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Stacked boulders might be effective for a simple installation of fish passage.













Fish passage with stacked boulders installed in ground sill





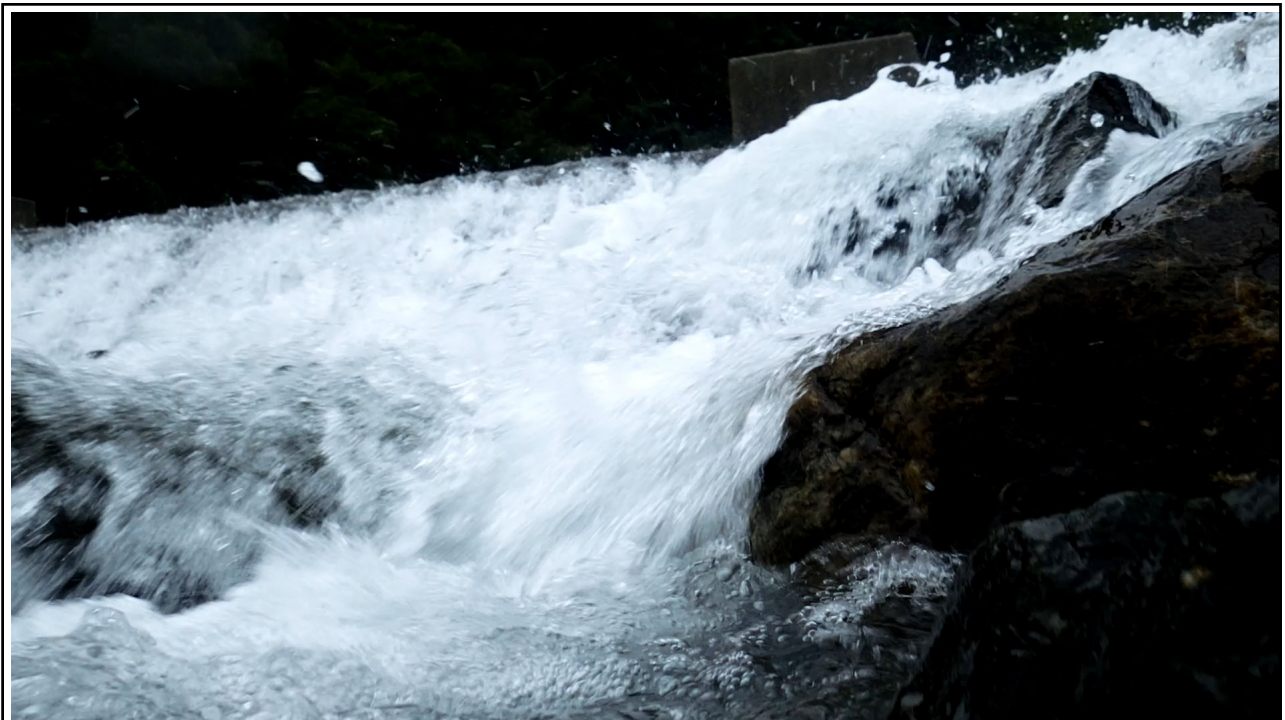












石組みの間で急速するオイカワ



北九州市紫川伊崎堰の事例

Murasaki River located in Kita-Kyushu city



Total length: 22.4 km
Catchment Area

113.0 km²

Isaki Weir

Location : 9 km from
river mouth



It is difficult to improve a permanent fish passage.
Because, securing of budget is difficult for the city.

Isaki Weir with
2m Drop (Water Irrigation)



Location of stacking boulders



Main boulders utilized for the stone masonry



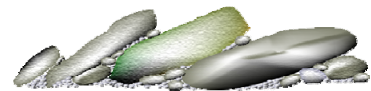
The size of the main boulders ranged from 0.6 m to 1.2 m.

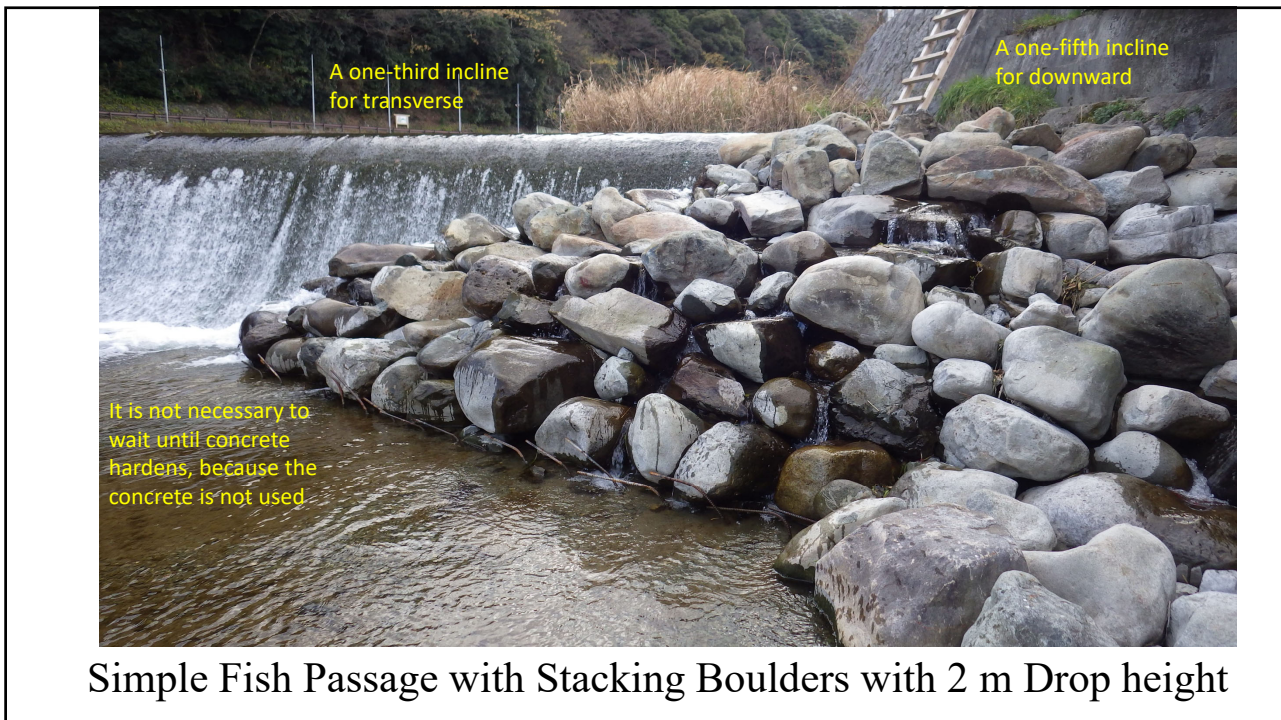
Main boulders selected for the construction
Stones and sand gravels used in the fish passage



Sand gravels and stones were prepared to fill the space in stocked main boulders.

How to stack Boulders as
a simple fish passage







茨木県常陸大宮久慈川における事例



















まとめ

- 石組みのポイント:接点, 重ね方, 隙間の作り方, 流れ方の想定
- 石組みの施工:コンクリート打設する場合よりも短期, 礫が入手しやすい場合には施工費安価, 重機のオペレータと人との連携, 仮施工最小
- 増水時に水没する箇所:礫の大きさ60cm以下で対応可