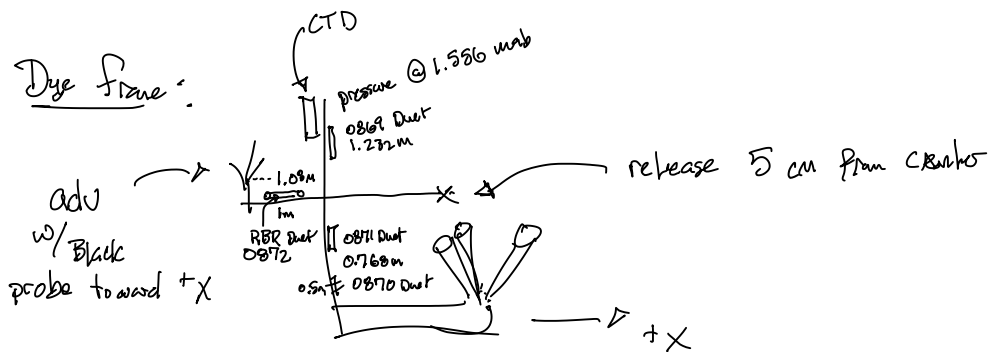


## Dye release notes

Wednesday, July 3, 2024 12:20 AM



All CTD, Ducts measured to pressure sensor

### Pump flow rates:

@ 150 rpm  
 Dis in back pool:  $0.526 \text{ L/min}$  or  $31.56 \text{ L/hr}$

Isa + Daniel in bucket:

150 rpm	9.092 gal/hr	$\rightarrow$	34.4 L/hr
130 rpm	7.7 gal/hr	$\rightarrow$	29.14 L/hr
100 rpm	5.8 gal/hr	$\rightarrow$	21.96 L/hr = 0.366 L/min

Dye release 1: 15 gal (bottle + dye)  $\approx$  57.81 kg

@ 1.04 kg/L  $\approx$  33  $\rightarrow$  38 L

@ 100 rpm pump 38 L in  $\approx$  95.7 min

Volume of dye hose:  $10m \times (\pi \cdot 0.00794^2) \cdot 0.000630436 \cdot 0.00198 \text{ m}^3 \cdot \frac{1000 \text{ L}}{\text{m}^3} = 1.98 \text{ L}$

$\Delta t$  from <sup>pump</sup> start to dye release  $\approx$  5.4 min

