# Diver Tools

**Support and User Guide** 



### Main Menu

- Diver Tools has 5 unique tools to help you dive
- Fill Calculator allows partial pressure blending including banked trimix
- Banked Fill Modeler lets you see the impact of using 2 different banks of nitrox or trimix to refill your tank
- Rebreather Dive Checklist allows you to create your custom checklist of items; track cell linearity history; and provides countdown timers for breathing checks
- Basic Bailout Planning provides a sanity check on your turn point based on gas supplies
- Trip Packing Checklist allows you to create your own custom checklist of items to prepare for a trip

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#### Fill Calculator

- Enter starting and target PSI, Oxygen and Helium percentages. Enter as whole numbers, ie 21% Oxygen should be entered as "20", not 0.20!
- The MOD of your target gas is shown at 1.4 PO2 in FSW along with the END at that depth
- Additions are shown for either banked trimix or pure helium based on the chosen setting
  - PSI to be added
  - PSI of the mix after this stage
  - Oxygen and Helium mix for analyzing between stages
  - Cubic feet of fill gas used based on your chosen tank settings
  - Fill of that stage based on your price settings

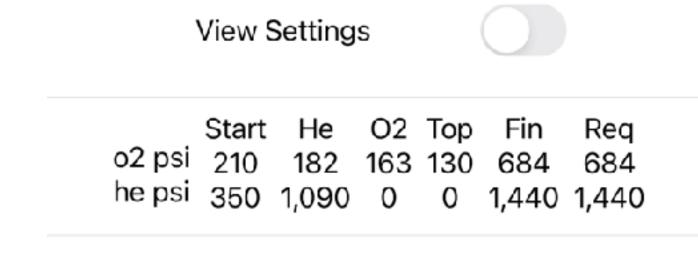


MOD @1.4: 210 FSW with END 113

Additions



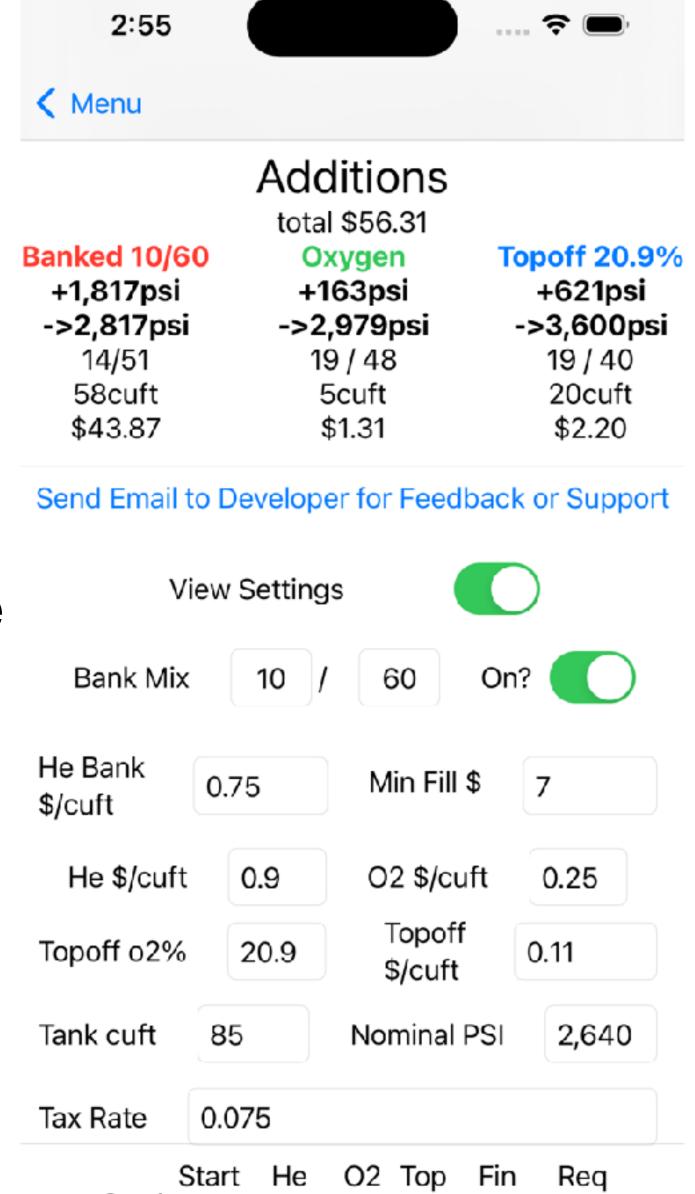
Send Email to Developer for Feedback or Support



Done

#### Fill Calculator

- Model does not apply any "fudge factor" or Z Factor for helium, always validate your gases to confirm exact analysis
- Impossible fills will note what you need to correct. Update values and try again to see if your new selection is achievable
- Send email for any observed issues with the calculations please!
- Change all settings to meet your unique needs. These are preserved as user defaults so you don't need to enter again
- The PSI of each stage is displayed as a sanity check



o2 psi 210 182 163 130 684 684

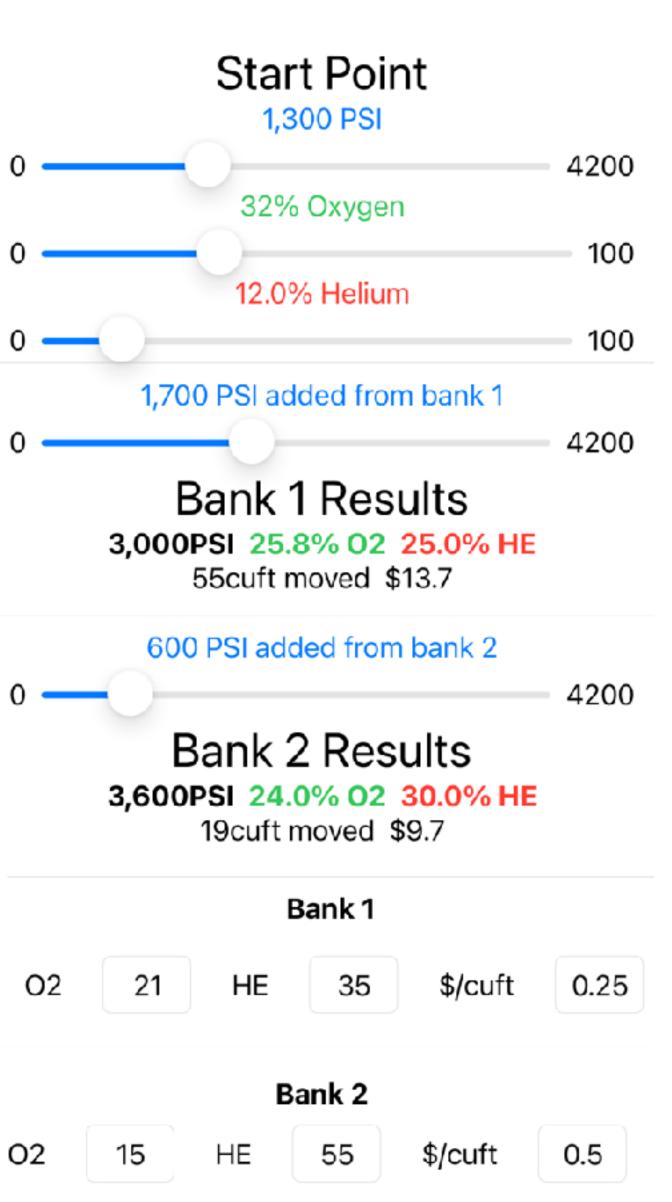
he psi 350 1,090 0 0 1,440 1,440

Menu

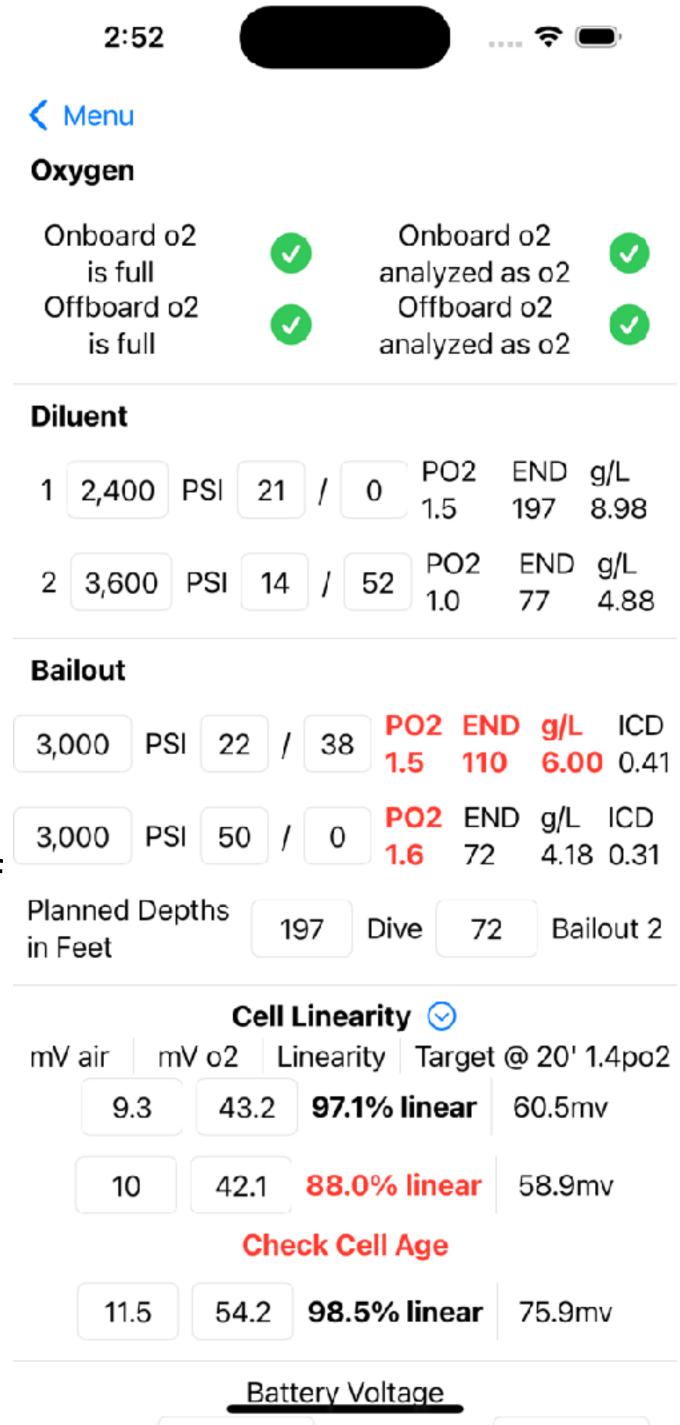


#### Banked Fill Modeler

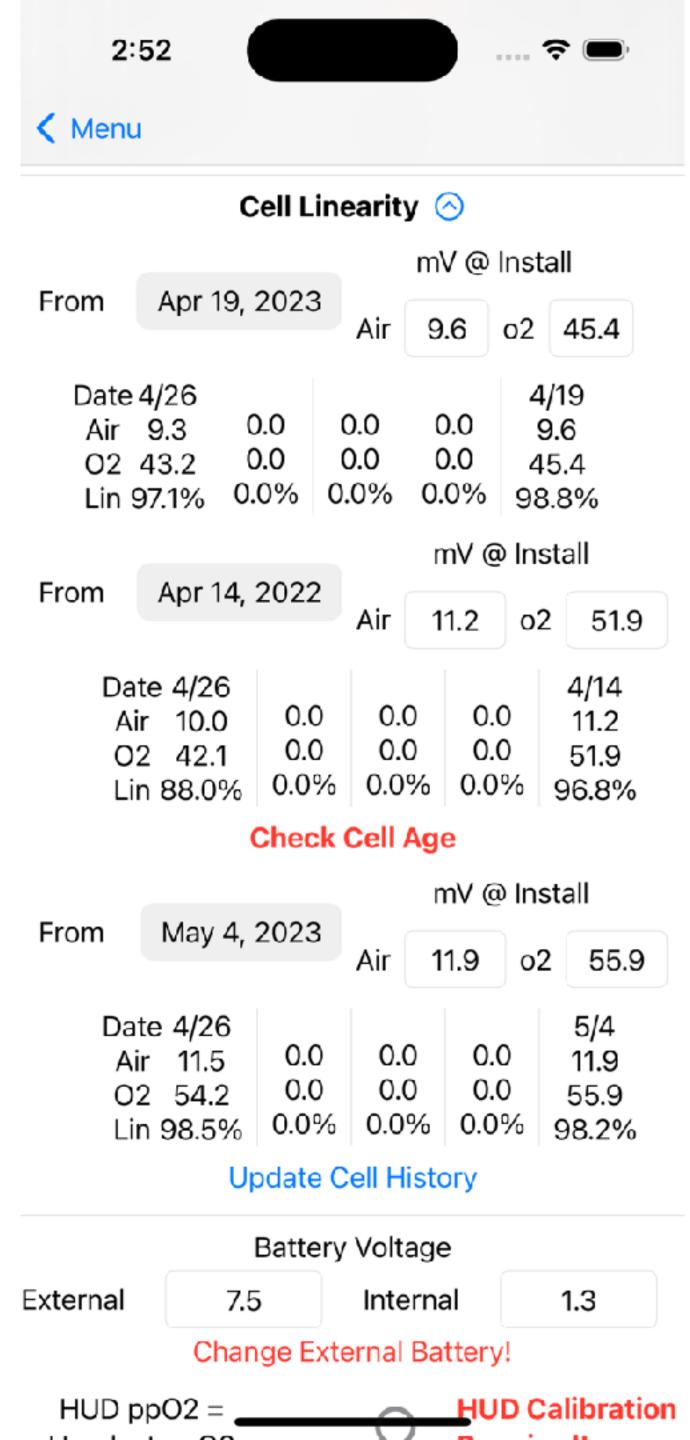
- Sometimes you have some gas and some banks and don't know what order you want to equalize things.
- This lets you slide to see how different PSI added from a bank will impact tank mixtures



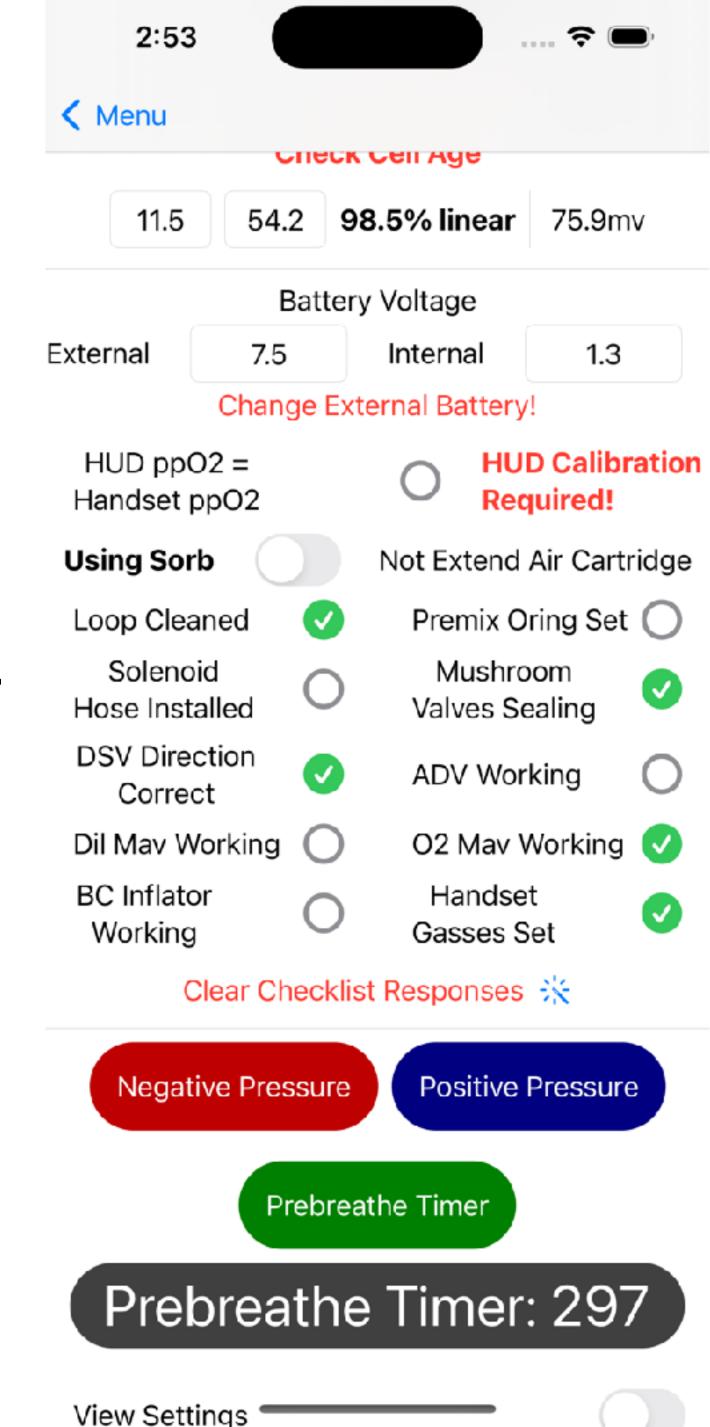
- Confirm your oxygen tanks are full and you checked that they are really oxygen
- Enter Diluent and confirm the Po2, END, and density of a gas at your planned dive depth
- Easily turn Dil2 off if you only have 1 diluent mix, and hide Po2, END and density warnings if your Dil1 is just inflation gas
- Bailout checks the same but also checks the ICD assuming Bailout 1 is switched to at dive depth and Bailout 2 is switched at a shallower depth of your choosing
- Track your cells in air and o2 calibration, their linearity during this check and what they should read at 20' at a target po2 of your choosing, so you can confirm they continue to behave linearly after a dive



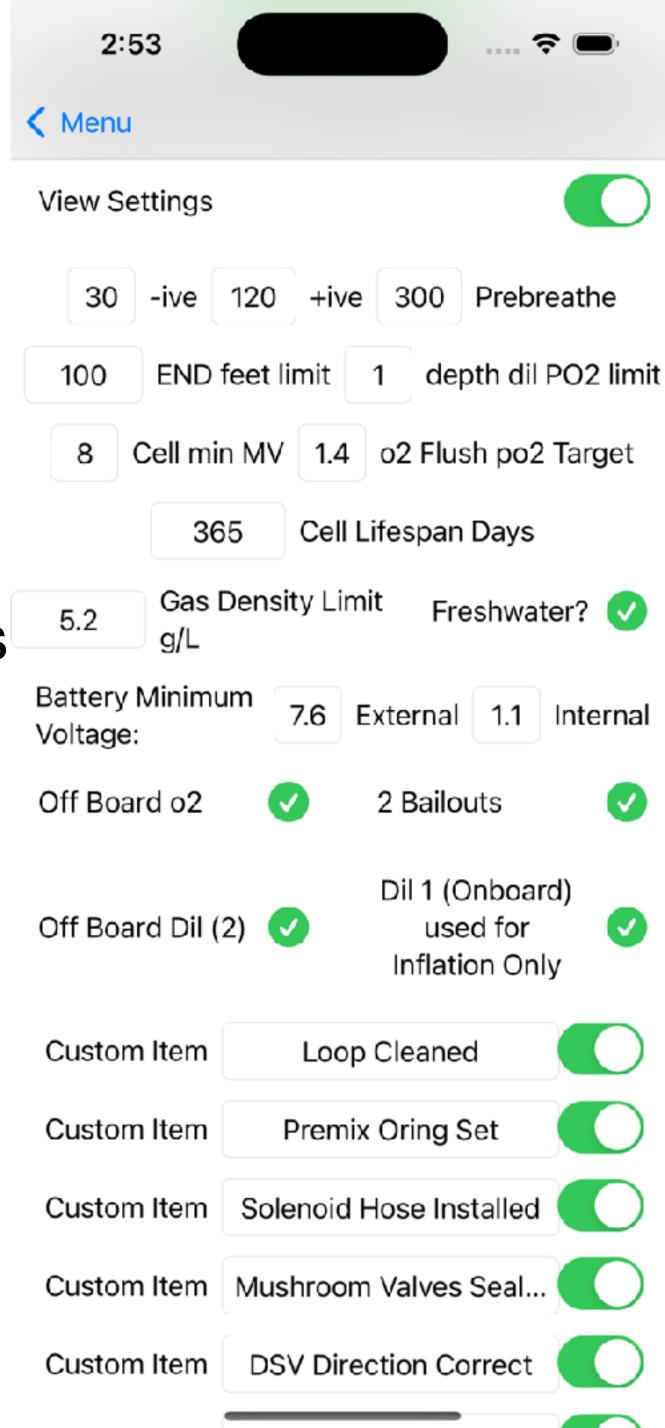
- Tap the blue chevron icon to view cell history
- Set cell install date and MV values from install, to get warnings of cell age based on your parameter for acceptable age
- Right most value is install details, 4 additional points may be stored showing mv in air, o2 and linearity on a date
- If you want to add current displayed linearity values as the next data point, click Update Cell History. This applies to all cells, and overwrites the oldest value with the next newest value. It is not possible to retrieve data if deleted in error, so be careful.



- Confirm battery voltage against your chosen limit parameters
- Confirm HUD and handset match
- Checklist items are all customizable for your unit and your settings persist as user defaults
- Negative, positive and prebreathe timers all run against your set time in seconds



- Intuitive settings are all customizable based on your preferences!
- Enter the text you wish to display, and flag whether you want it to be displayed or not. This allows you to add items that you don't display on each dive

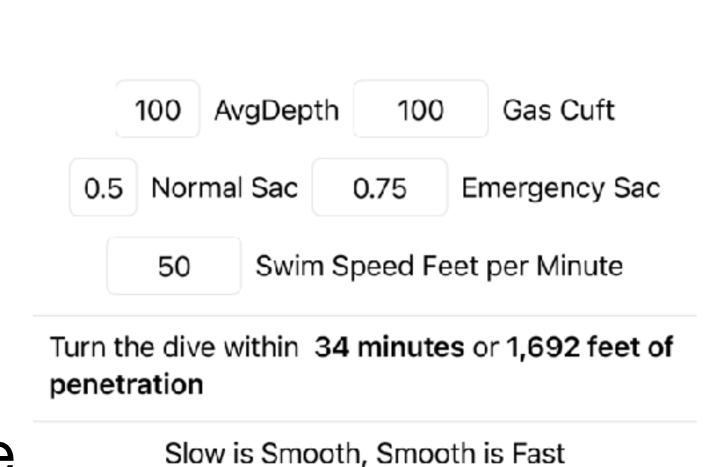


Menu



### Bailout Planning

- Very basic sanity check for your dive depth and gas supplies
- We have plans to connect your tank and fill details on rebreather checklists along with more detailed dive profile information to provide more detailed bailout planning



## Trip Packing Checklist

- Most items are customizable for your dive equipment
- Simple way to see if you have all the stuff you need

2:56 .... ♀ ■



Trip Checklist			
Mask Drysuits Catheters	000	Fins Undergarments PValve Sanitizer	000
Primary Light Reels and Spools	0	Backup Lights Computer	0
Assembled Rebreather Regulators	<ul><li>✓</li><li>✓</li></ul>	Dil/Bail Out Tanks DPV	<ul><li>○</li><li>✓</li></ul>
Certification Cards Snacks/Drinks Fan/Bug Spray	0 0 0	DAN Insurance Basic Medicine Entry \$	000

Clear List Responses 🔆

Edit List Items

## Trip Packing Checklist

 Type the text of custom items, and flag whether you want it to be displayed or not

