DATAPOD™ SMART BUOY

Monitoring built to scale.

Continuous water quality readings from a 10 lb solar buoy, delivered to DataHub every 30 minutes, with alerts when conditions cross your limits.

01 **Readings you can act on**
Six parameters reporting every 30 minutes instead of a weekly grab sample. Every DataPod is calibrated every 3–6 months.

02 **Low upkeep, predictable cost**
Solar powered on a 3.5 V system. Monitoring starts at $4,600 a year.

03 **One buoy or a whole fleet**
Start with one buoy or build a fleet. Configure with add-on sensors, or bundle a Rover as the data shows water quality events.



DEPLOYMENT

On the water in minutes.

10 lb, launches with one person, no crane or boat required.

Dock
Tie it to a cleat or piling

Buoy
Ride an existing mooring

Anchor
Anywhere your permits allow

DEPLOYED WITH

THE PORT OF LOS ANGELES · CITY OF NEWPORT BEACH CALIFORNIA · HUNTINGTON BEACH · WATERKEEPER® ALLIANCE · CLEVELAND WATER ALLIANCE

WHAT YOU GET WITH DATAHUB

Live charts for every site

Every DataPod on one screen, from the last half hour to five years.

Alerts that reach you first

Set a limit for any reading. When a DataPod crosses it, DataHub emails your team.

Reports, written for you

Gilligan AI™ turns readings into summaries for councils, grants and permits.

CHALLENGES

Weekly grab samples and lab delays. Overnight and storm-driven events go unseen.

SOLUTIONS

A low-cost buoy reporting every 30 minutes, with alerts and an AI assistant built in.

BENEFITS

You unlock proactive response to your water, and build a record you can share with stakeholders.

BUOY SPECIFICATIONS

Type	Solar-powered surface water quality buoy
Size	2 ft tall × 2 ft wide × 2 ft long
Weight	10 lb
Power	Solar recharge, 3.5 V low-voltage system
Reporting interval	Every 30 minutes, or shorter on request
Standard sensors	Dissolved oxygen · pH · temperature · conductivity · ORP · turbidity
Add-on sensors	Tryptophan · chlorophyll · turbidity upgrade · crude oil
Water	Fresh or salt
Depth	Any depth with proper mooring equipment
Mounting	Tie to a dock, existing buoy, or anchor
Season	9 months where water freezes; year round in tropical water
Calibration	Every 3–6 months
Software	DataHub web dashboard: graphs, maps and dials; Gilligan AI™ and forecasting; data exports and site comparisons; team and billing management
Alerts	Daily or weekly, with exceedances
Team access	Up to 15 members per organization
Data export	Spreadsheet (CSV), with a perpetual reuse license
AI assistant	Gilligan AI™: answers questions, forecasts, writes reports
Price	From $4,600 per buoy per year

SENSOR LIST

Standard (always included)

- ☑ **Dissolved oxygen** · fish kills, algal activity
- ☑ **pH** · algal activity, runoff, acidification
- ☑ **Temperature** · bloom and bleaching risk
- ☑ **Conductivity** · salinity, discharges
- ☑ **ORP** · oxidation-reduction potential
- ☑ **Turbidity** · stormwater, dredging, erosion

Add-on sensors

- ☐ **Tryptophan** · an early sign of sewage
- ☐ **Chlorophyll** · algal bloom detection
- ☐ **Turbidity upgrade** · higher precision for strict limits
- ☐ **Crude oil** · spill detection

Add one to the standard six.

BUILD YOUR DATAPOD

1. **Start with the base**
   Every DataPod reports dissolved oxygen, pH, temperature, conductivity, ORP and turbidity.

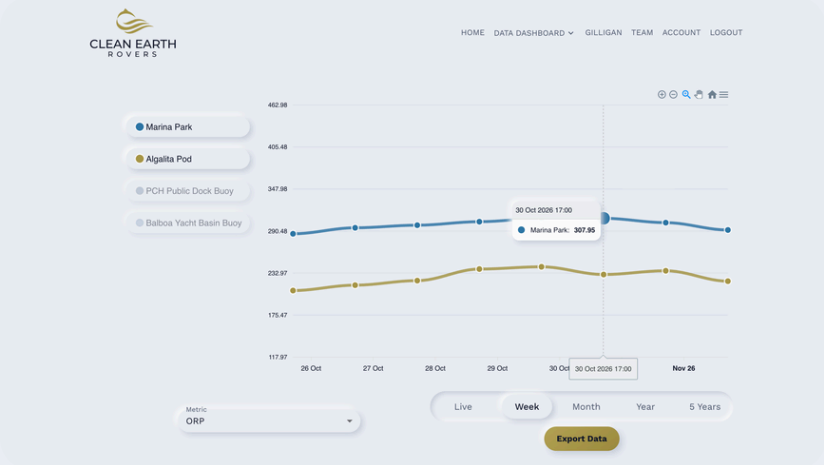
2. **Add what your water needs**
   The add-ons above come from trusted suppliers, for more focused monitoring needs.

3. **Deploy with ease**
   Once your buoys arrive, you decide where they go.

Need to measure something else?

Tell us what you need to measure. Some jobs suit a sensor on the Rover AVPro™, which can carry survey instruments the DataPod doesn't.

513-202-3355



DATAHUB

Every DataPod on one screen.

Pick a site, a reading and a time range, from live to five years. Export any of it as a spreadsheet.

SENSOR SETUPS

One buoy, many jobs.

The same buoy covers very different jobs. These are the payloads customers start with most often.

WHERE IT'S USED

General water quality

STANDARD SIX

Harbors, marinas and beaches that need a continuous record for a commission, a council or the public.

Harmful algal blooms

STANDARD SIX + CHLOROPHYLL

Lakes and estuaries where rising chlorophyll and falling oxygen come before a bloom or a fish kill.

Sewage and outfall detection

STANDARD SIX + TRYPTOPHAN

Find a leaking line or a bad outfall, and know where to send the bacteria sample.

Aquaculture

STANDARD SIX + CHLOROPHYLL

Show conditions across your pens and make sure fish are healthy and happy.

IN USE · NEWPORT BEACH HARBOR DEPARTMENT

Our investment in CER has netted great returns and our partnership with the organization is strong and productive.

DataPods across 880 acres of harbor water supplement weekly county samples with a live record.

GET STARTED

Build your fleet today.

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CLEAN EARTH ROVERS