The 5 W's of Aquarius Samples!

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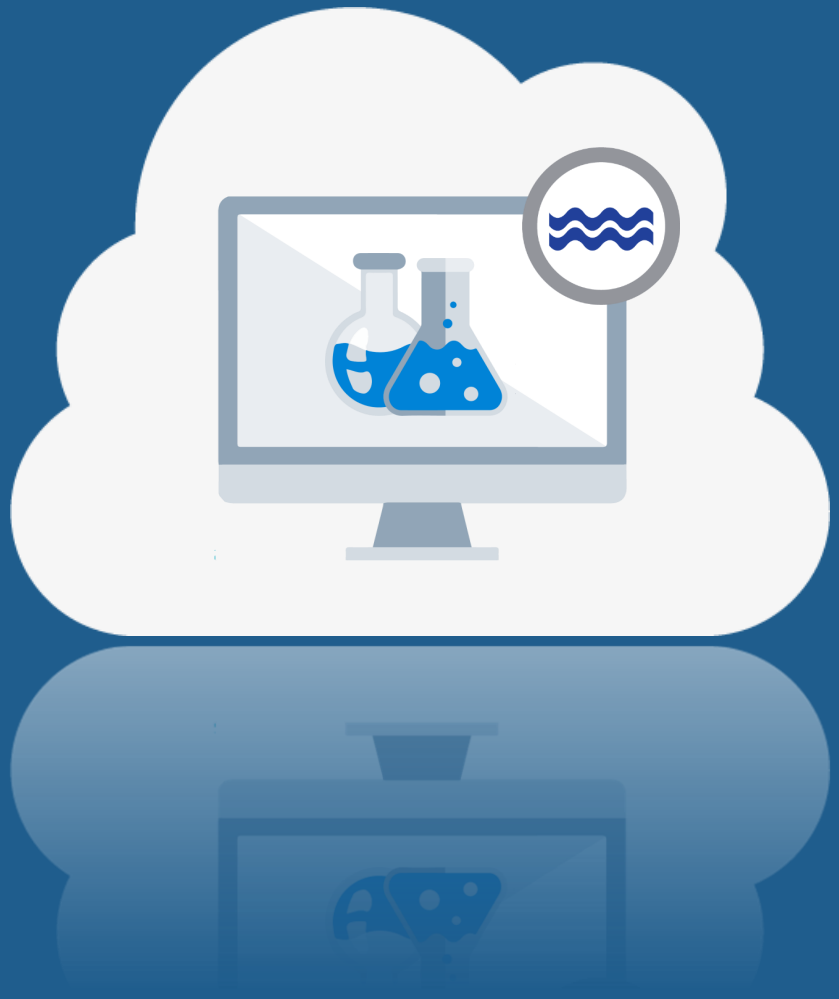


AGENDA

- **W**hat is Aquarius Samples?
- **W**hy should you use it?
- **W**ho should use it?
- **W**here can you use it?
- **W**hen can you use it?
- Question & Answers

USER POLL!

What is your level of experience with Aquarius Samples?

(between 0 and 10)

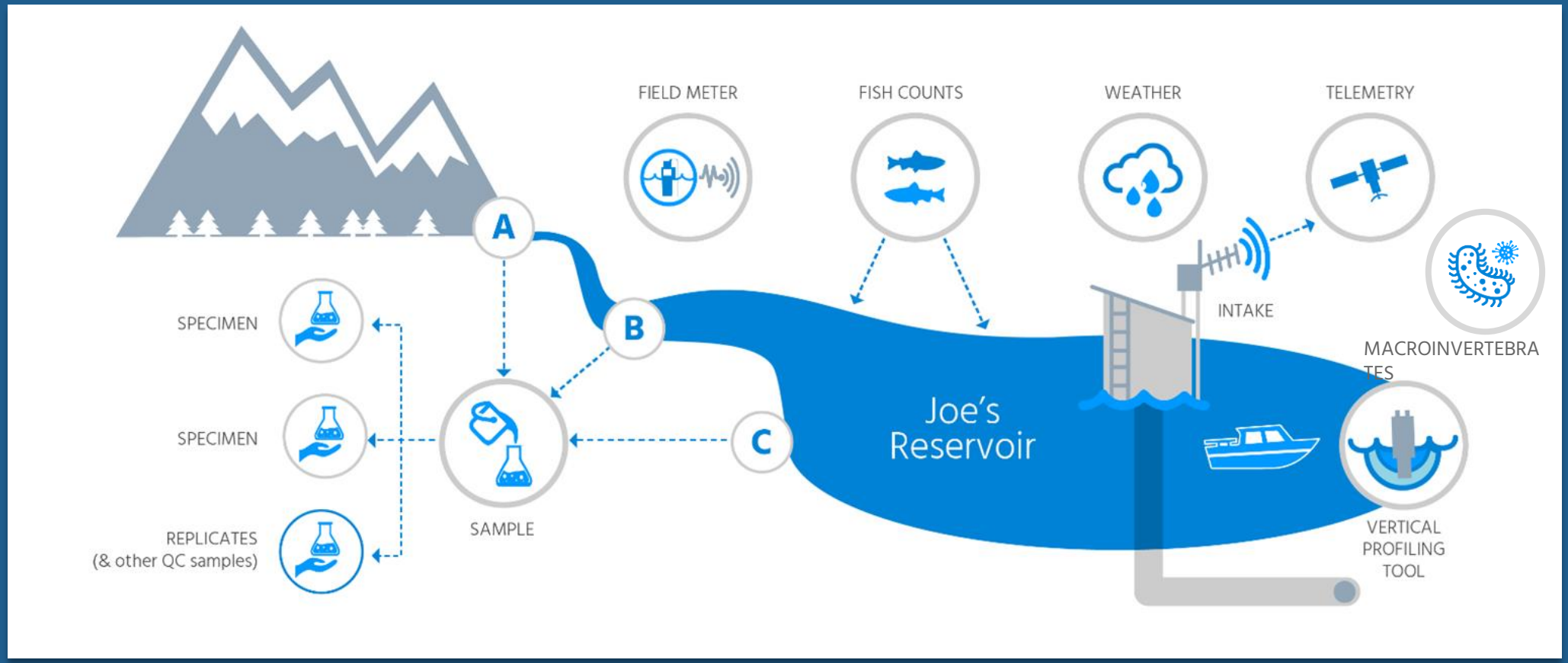
What is Aquarius Samples?

AQUARIUS Samples is a Software-as-a-Service (SaaS) application that streamlines the production and management of environmental lab and field sample data, saving time while increasing the quality of final data.

All discrete water, air, soil, biological, and tissue data are securely stored and validated online for rapid analysis and visualization – to support better decisions anytime, anywhere.

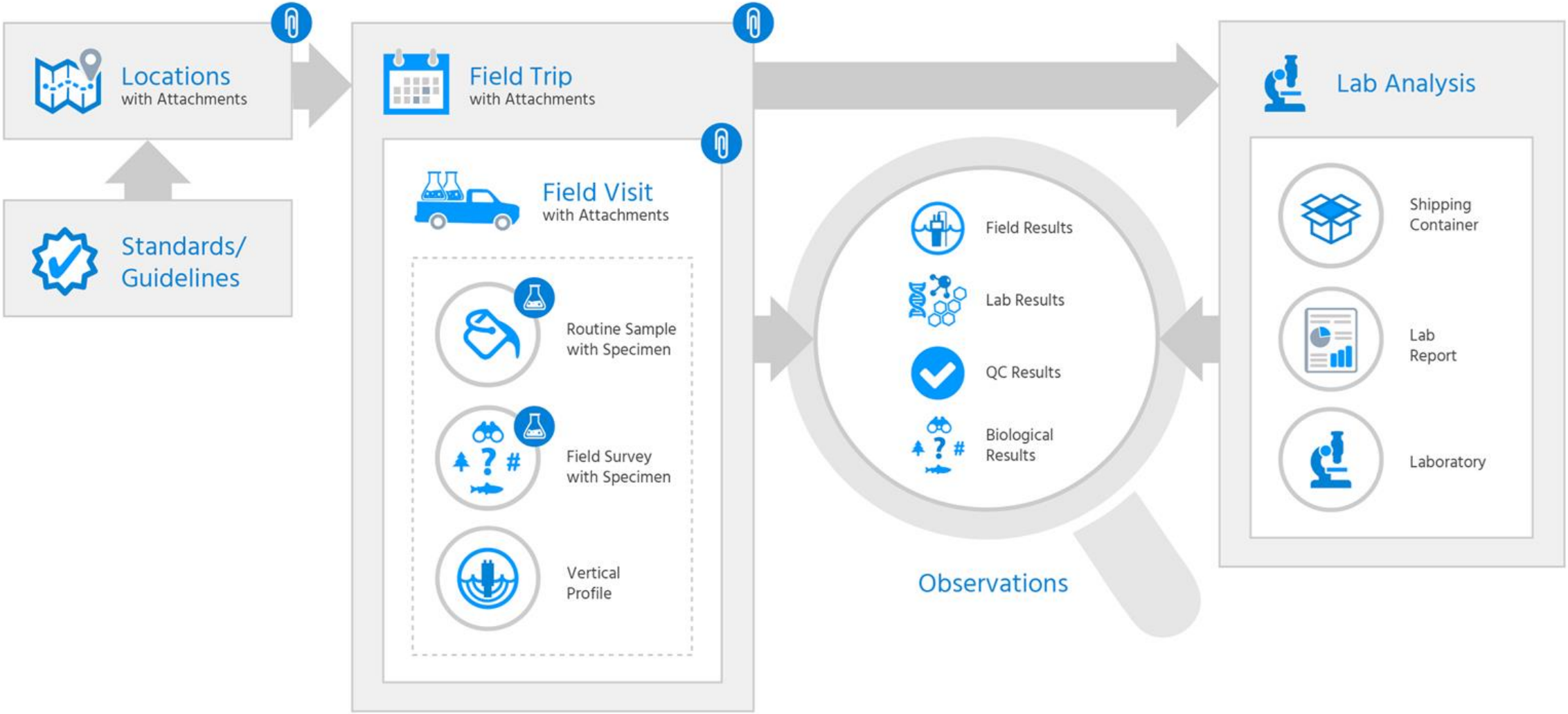
What is Aquarius Samples?

A Single Source of Truth…



Integration with AQUARIUS Time-Series!

Aquarius Samples Terminology



Why use Aquarius Samples?

Discrete sampling data is unique and very diverse…

- Many types of metadata, methods, processes
- Different data lives in different places (water quality, sediment, ecological data…)

Challenges from decentralized, hard-to-access data…

- Where are all the data?
- Are they up to date?
- Which version?
- How to interpret/use it?
- Is it trustworthy – how was it collected/analyzed?
- How to easily access it pull it all together/compare spatially and over time?

Why use Aquarius Samples?

Provides Search and Discovery

- Powerful and robust search filters and full text search tools

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Why use Aquarius Samples?

Centralizes these data, and make it accessible for analysis

- A basic map, powerful filter criteria, multi dataset and box plot charts, export

Provides data validation, exceedances & review

- Define location and time-based standards, validate datasets against them and see violations

Enables focused import with preview

- Powerful, intuitive file import allowing data owners to directly import data without programming, leverage metadata validation, and a preview (before committing)

Who should use Aquarius Samples?

- YOU!
- Scientists or Technicians monitoring discrete water, air, soil, biological, and tissue data
- Laboratory technicians (water testing)

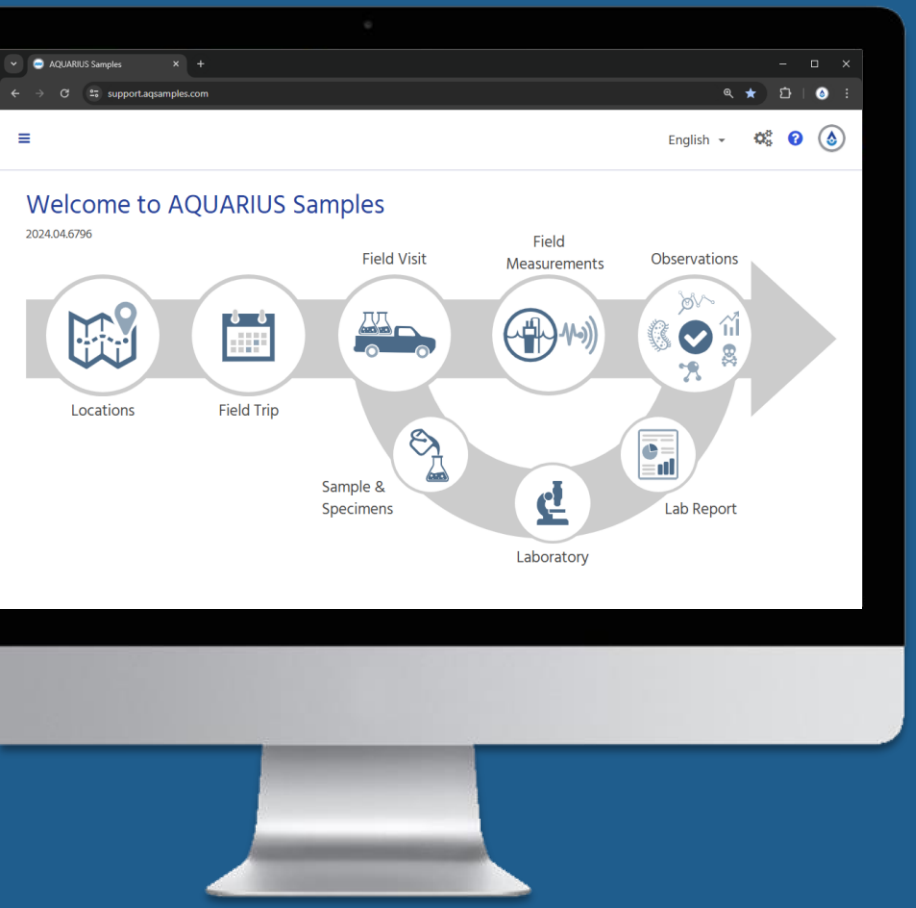
Who should use Aquarius Samples?

- **Users can be distinguished by…**
  - ‘Admin’ vs. non-admin users
    (only administrators can change system settings)
  - Area/data type (e.g., Field Tech Area A vs. Field Tech Area B)
  - Role/Function (e.g., Lab data access vs. field data access)

- **Provides an audit trail tracking who did what, and when**

Where can you use Aquarius Samples?

In the office…



Visual Workflow…

- Key workflow steps accessible by clicking on the workflow icons
- Each icon corresponds to a menu item on the left side of the screen
- Adapts for cell phones and tablets

In the field…

Where can you use Aquarius Samples?

Enable the ‘Sampling plan ⟶ Lab Results’ workflow

- Quickly set up a comprehensive sampling plan (field and lab data)
- Take the plan ‘into the field’ to enter data, and use it as a ‘to do list’
- After completing field work, easily track progress against the plan
- Initiate the ‘Chain of Custody’ process:
  - Let the lab know ‘what’s coming’ (i.e., a ‘Work order’)
  - Track who is in possession of the physical bottles (i.e., a ‘Custody log’)

Where can you use Aquarius Samples?

Enable the ‘Sampling plan ⟶ Lab Results’ workflow (continued)…

- Import lab reports into AQS automatically
- Easily see which new lab data is available
- Quick validation, visualization and analysis of new results
- Easy export including exceedances via ‘crosstab’ reports

Ok, ok, can we see it please?

AQUATIC Informatics

DEMO!

AQUATIC Informatics | ONE WATER. PLATFORM.

THANK YOU!