INTEGRATED REPORTING FOR ENVIRONMENTAL DATA MANAGEMENT

Improving laboratory data consolidation, analysis, and reporting.

Environmental Measurement Symposium ~ 2014

Promium

Scot Cocanour, CEO

PROMIUM

An integrated approach

Streamlining the flow of information from laboratories to their clients.

- Reduce investment of time and effort to get to the end result.
- Consolidate data from multiple projects & labs.
- Provide a more interactive experience.

More connected

More efficient

More effective

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What happens to laboratory data when it leaves the lab?

Two traditional paths for managing laboratory results:

Manual Transcription

Comprehensive EDMS

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Manual Transcription – Using spreadsheets

Obstacles and Hurdles

- Time consuming manual process
- Transcription errors
- No robust method of ensuring data QA
- No audit trail
- Hard to combine data from multiple laboratory reports
- Difficult to effectively share data

Labor Intensive Process

1. Review Laboratory QA.
2. Compile tables for Field QA.
3. Compile Result Tables with Exceedances.
4. Review all compilations.
5. Integrate data with previous results (tables, maps, graphs).

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Comprehensive EDMS

Manages more than laboratory results —good for some, overkill for many.

Obstacles and Hurdles

- Complex with steep learning curve
- Expensive to setup and maintain
- Requires IT staff
- High investment
- Only use a small percentage of functionality

A Third Way

DataConcourse™

An interactive web-based service that automates data collection, and streamlines analysis and reporting.

- Hosted service (no internal setup or IT required)
- Pay per report (no software/hardware costs)
- Easy to use functionality (limited training required)
- Consolidate data from multiple laboratories
- Specify field data, enter qualifiers & comments

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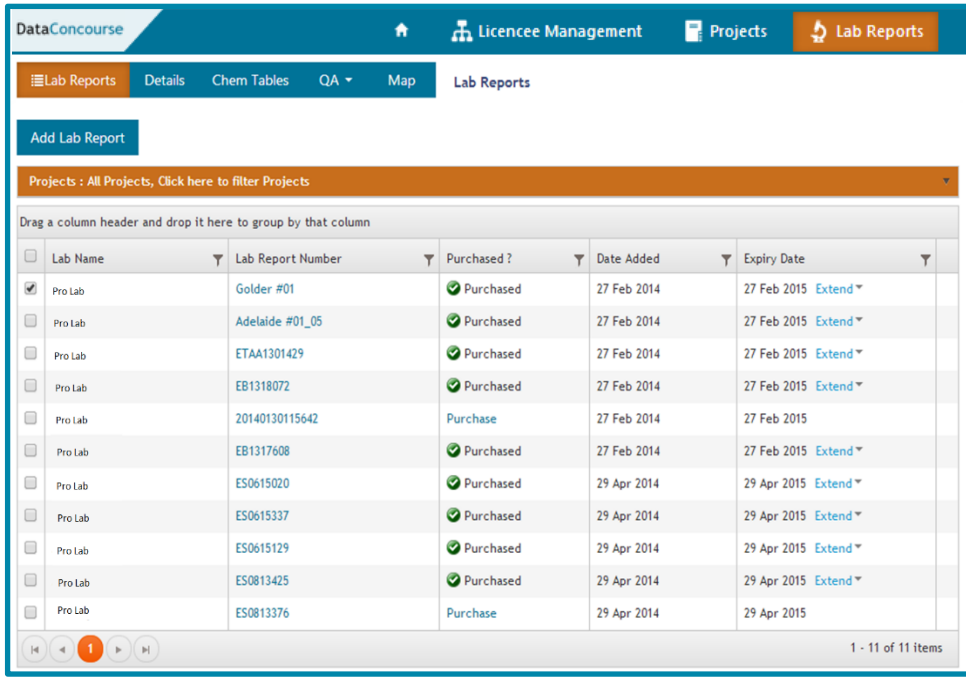
Automated import of laboratory reports

DataConcourse™

- Tightly integrated with laboratories using Element LIMS.
- Import reports from labs not using Element LIMS.
- Consolidate laboratory reports across one or many projects or labs.



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Library of regulatory environmental standards

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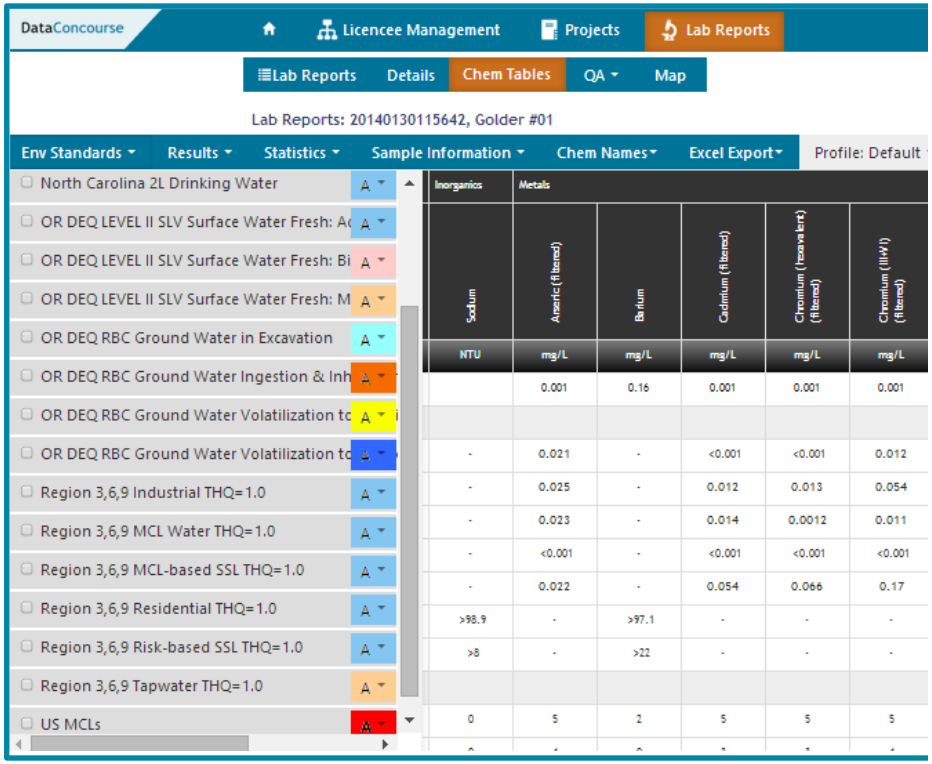
- U.S. EPA and other Federal and State agencies.
- Compare one or more reports against standards and exceedances on chem tables or map.



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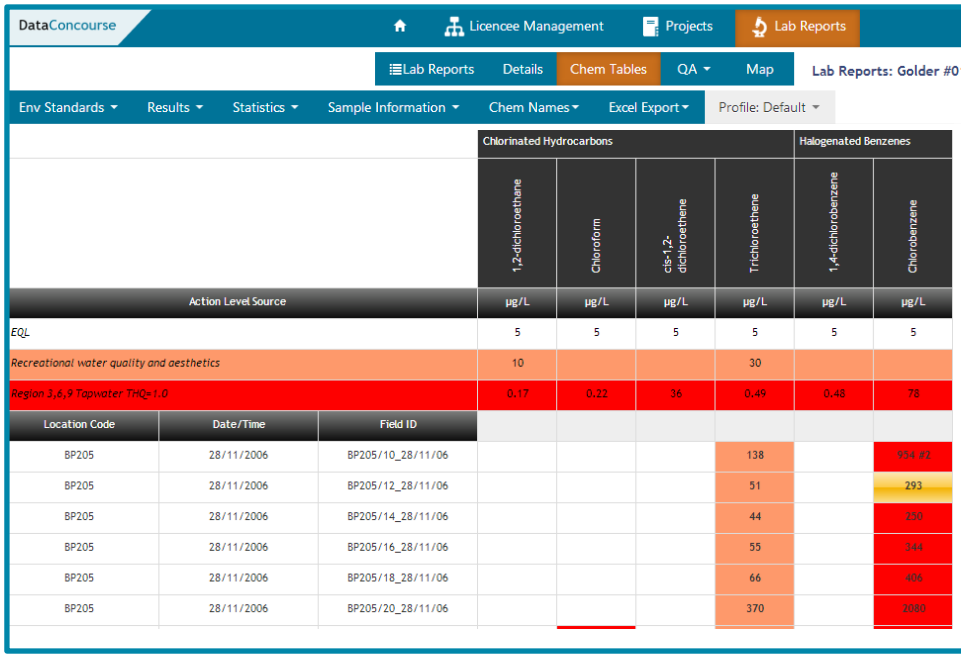
Formatted chemistry tables

DataConcourse™

- Specify chemistry table layout, colors and other settings.
- Choose to only view detects, exceedances, or particular compound groupings.
- Export table to Microsoft® Excel.



			Chlorinated Hydrocarbons				Halogenated Benzenes	
			1,2-dichloroethane	Chloroform	cis-1,2-dichloroethene	Trichloroethene	1,4-dichlorobenzene	Chlorobenzene
Action Level Source			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			5	5	5	5	5	5
Recreational water quality and aesthetics			10			30		
Region 3,6,9 Tapwater THQ=1.0			0.17	0.22	36	0.49	0.48	78
Location Code	Date/Time	Field ID						
BP205	28/11/2006	BP205/10_28/11/06				138		954 #2
BP205	28/11/2006	BP205/12_28/11/06				51		293
BP205	28/11/2006	BP205/14_28/11/06				44		250
BP205	28/11/2006	BP205/16_28/11/06				55		344
BP205	28/11/2006	BP205/18_28/11/06				66		406
BP205	28/11/2006	BP205/20_28/11/06				370		2080

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Validation and final qualifier checks

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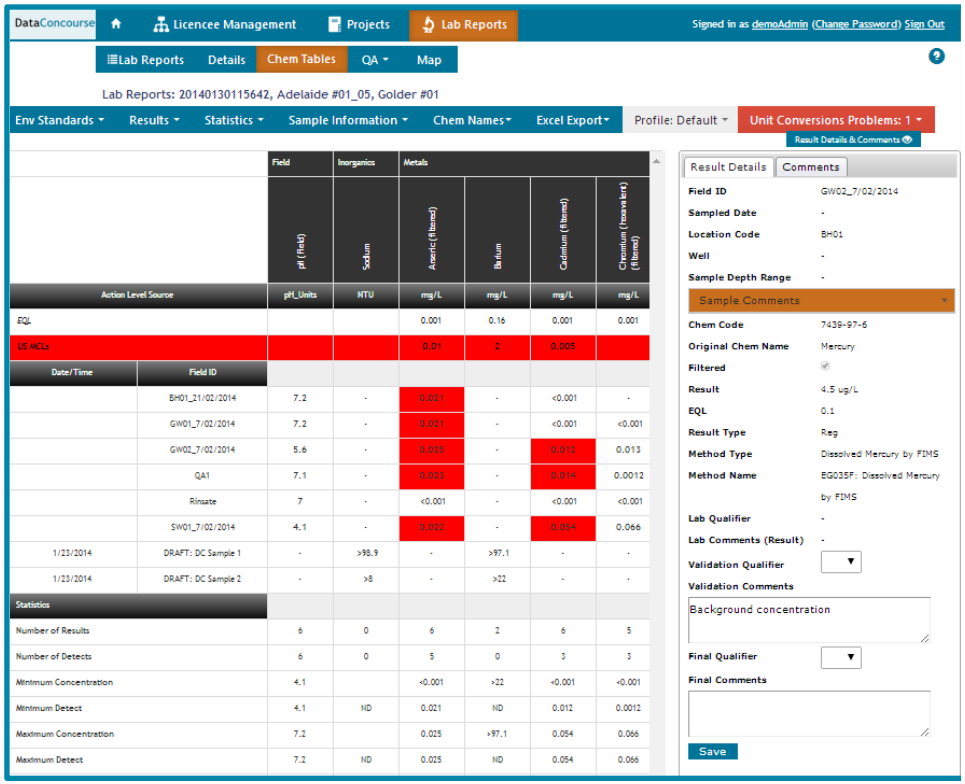
- Enter qualifiers or comments against selected results.
- Select results and add comments or validation.



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Quality Assurance reports

Produce standard QA reports required

Field QA

- Field duplicates and triplicates
- Field blanks, trip blanks, rinsates
- Trip spikes

Laboratory QA

- Duplicates and blanks
- Holding times
- Inorganic logic checks
- Laboratory control samples/reference materials
- Matrix spikes and surrogates

GIS Mapping

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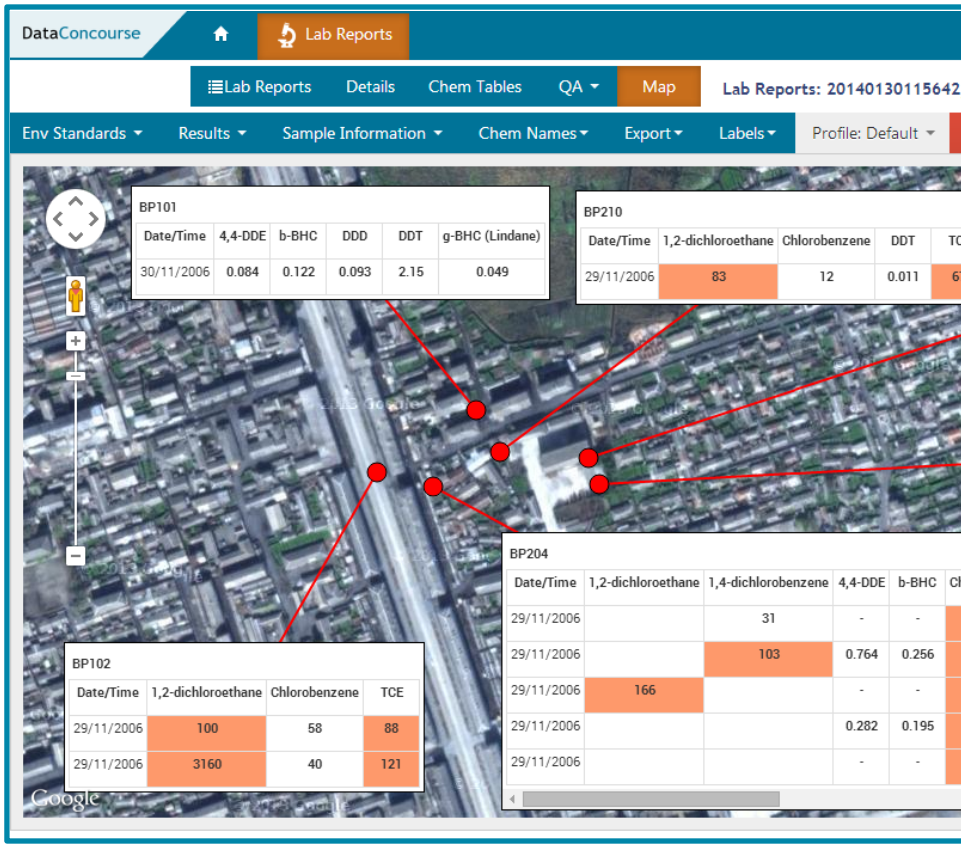
- View results and exceedances with built-in GIS and Google Imagery underlay.
- Export to other mapping software.



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Accelerating the flow of information

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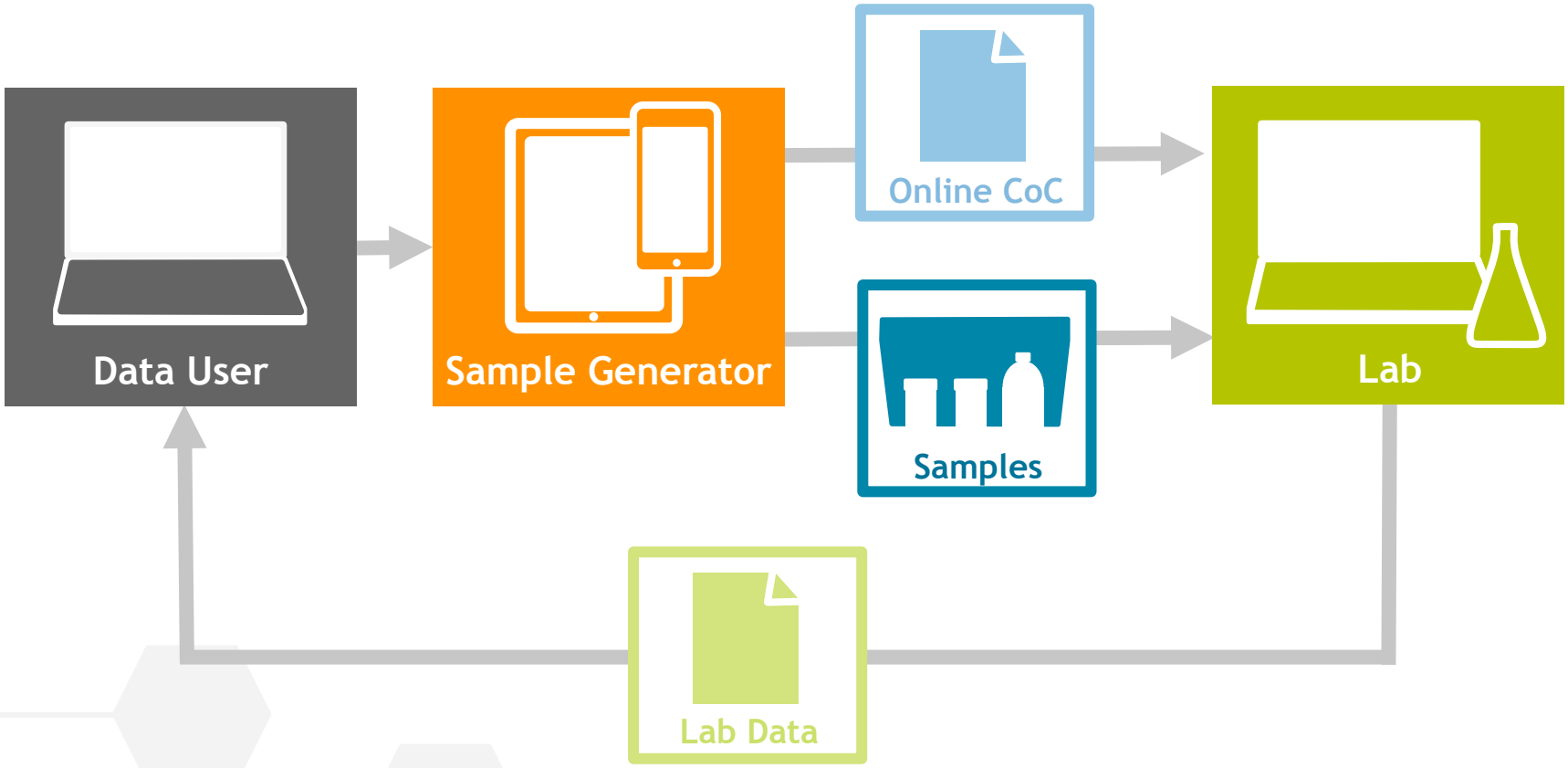

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THANK YOU

www.promium.com