

# Keeping Up with DDW Monitoring Requirements

May 22, 2019

Dawn White  
Water Quality Manager

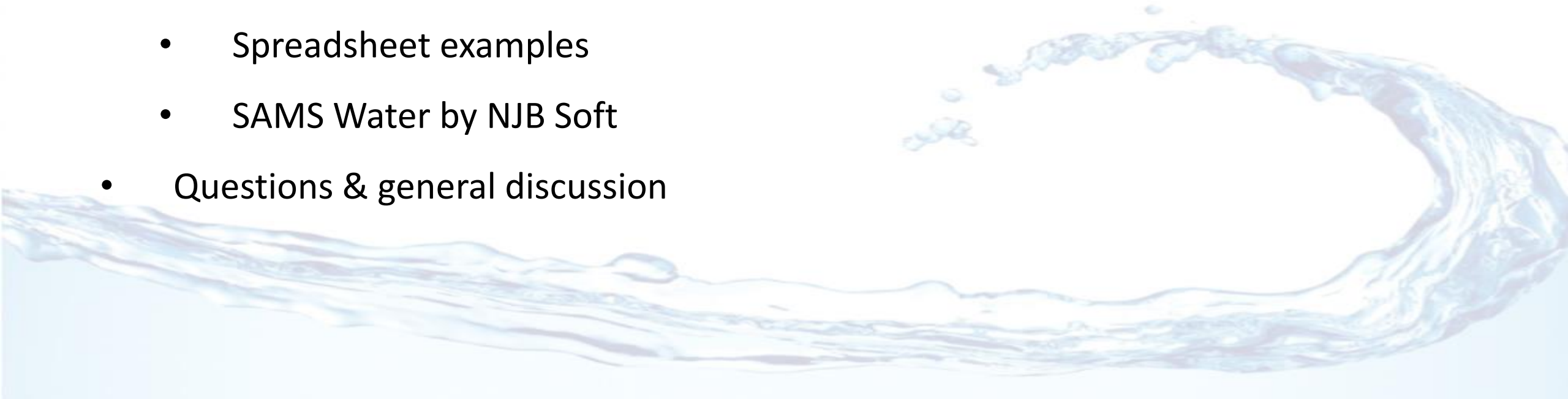


**Golden State**  
Water Company

A Subsidiary of American States Water Company

# Presentation Outline

- Update on Water Testing Regulations
- How to Keep Track of Water Testing Schedules
- Where to Find Results Online
- Sample Templates for Tracking Testing Schedules and Monitoring Results
  - Spreadsheet examples
  - SAMS Water by NJB Soft
- Questions & general discussion

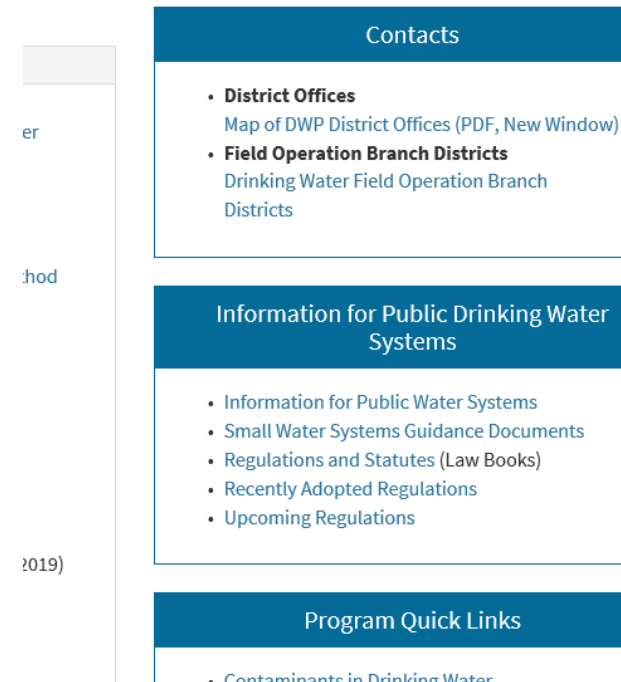


# Update on Water Testing Regulations

[https://www.waterboards.ca.gov/drinking\\_water/programs/index.html](https://www.waterboards.ca.gov/drinking_water/programs/index.html)

Sample according to:

- Regulations
- Permit Provisions
- Process Control



The screenshot shows a portion of the California State Water Resources Control Board website. It features three main navigation sections with blue headers:

- Contacts**
  - **District Offices**
    - Map of DWP District Offices (PDF, New Window)
  - **Field Operation Branch Districts**
    - Drinking Water Field Operation Branch Districts
- Information for Public Drinking Water Systems**
  - Information for Public Water Systems
  - Small Water Systems Guidance Documents
  - Regulations and Statutes (Law Books)
  - Recently Adopted Regulations
  - Upcoming Regulations
- Program Quick Links**
  - Contaminants in Drinking Water

## Drinking Water-Related Statutes and Regulations


These compilations of drinking water-related laws were once referred to by staff and the regulated community as "The Blue Book."

Drinking water-related statutes are from the Corporations Code, Education Code, Food and Agricultural Code, Government Code, Health and Safety Code, Public Resources Code, and Water Code. There may be statutes related to drinking water that are not included in the latest update. Regulations are from Title 17 and Title 22 of the CCR.

- Drinking Water-Related Statutes ([PDF, 2.1MB](#))...(Word, 2MB) - 391 pages, last updated December 28, 2018.
- Drinking Water-Related Regulations ([PDF, 2.2MB](#))...(Word, 0.5MB) - 346 pages, last updated April 16, 2019.

# Drinking Water Watch

<https://sdwis.waterboards.ca.gov/PDWW/>



Drinking Water Branch

## Drinking Water Watch

SDWIS Version 3.21

### California Public Water Supply Systems Search Parameters

Water System No.	<input type="text"/>
Water System Name	<input type="text"/>
Principal County Served	<input type="text"/>
Water System Type	All ▼
Water System Status	Active ▼
Primary Source Water Type	All ▼

[Click Here for the County Map of CALIFORNIA](#)

## Links

[Water System Details](#)

[Water System Facilities](#)

[Monitoring Schedules](#)

[Monitoring Results](#)

[Monitoring Results By Analyte](#)

[Lead And Copper Sampling](#)

- [Summaries](#)
- [Next Sampling Due Dates](#)
- [All Lead Sampling Results](#)
- [All Copper Sampling Results](#)

[Violations/Enforcement Actions](#)

[Site Visits](#)

[Consumer Confidence Reports](#)

- [2017](#)
- [2016](#)
- [2015](#)
- [2014](#)

## Return Links

[Water System Search](#)

[County Map](#)

# CA Drinking Water Watch

## Water System Details

Water System No. :	CA4210022	Federal Type :	C
Water System Name :	GOLDEN STATE WATER COMPANY - LAKE MARIE	State Type :	C
Principal County Served :	SANTA BARBARA	Primary Source :	GW
Status :	A	Activity Date :	03-22-1979
Distribution System Classification :	D1	Max Treatment Plant Classification :	TD

### Water System Contacts

Type	Address	Phone		Email - Web Address
Administrative Contact	<a href="#">3005 GOLD CANAL DRIVE</a> <a href="#">RANCHO CORDOVA, CA 95670</a>			
Physical Location Contact	CA4210022-GOLDEN STATE WC - LAKE MARIE	Business	800-999-4033	<a href="#">www.gswater.com</a>

### Division of Drinking Water District / County Health Dept. Info

Name	Phone	Email	Address
DISTRICT 06 - SANTA BARBARA	805-566-1326		1180 EUGENIA PLACE SUITE 200 CARPENTERIA CA 93013

### Annual Operating Periods & Population Served

Start Month	Start Day	End Month	End Day	Population Type	Population Served
1	1	12	31	R	524

### Service Connections

Type	Count	Meter Type	Meter Size Measure
CB	204	ME	0

### Sources of Water

Name	Type Code	Status
LAKE MARIE WELL 4	WL	A
UNDESIGNED WELL 05	WT	A

### Service Areas

Code	Name
R	RESIDENTIAL AREA

# Monitoring Schedules

may be a notation in the Constituent Identification column to reference state code / 10.9 for the last future result. In these instances, the Constituent Identification column will say, "N/A STATE (as N) - (see / 10.9)". Any questions should be referred to your District Engineer.

## [Monitoring Schedules for All Sampling Points](#)

Click to view report. Once the report is shown, click on the Export icon on the report header to download.

## Monitoring Schedule for Individual Sampling Points

Click on a sampling point number to view the monitoring schedule for the sampling point.

[Click here to bring back the list of sampling points.](#)

Sampling Point	Location	Type
<a href="#">003</a>	VINEYARD WELL 05	RW
<a href="#">005</a>	WELLS 04,05,06 - TRT CL	WS
<a href="#">006</a>	VINEYARD WELL 06	RW
<a href="#">008</a>	LAKE MARIE WELL 4	RW
<a href="#">007</a>	DISTRIBUTION SYSTEM	DS
LCR		DS

DATE: 5/20/2019									
STATE OF CALIFORNIA									
PAGE 1									
LAST SAMPLE DATE AND MONITORING SCHEDULE									
SYSTEM NO: 4210022		NAME: GOLDEN STATE WATER COMPANY - LAKE MARIE				COUNTY: SANTA BARBARA			
SOURCE NO: 006		NAME: VINEYARD WELL 06				CLASS: LARG		STATUS: Active	
PSCODE	GROUP/CONSTITUENT IDENTIFICATION	LAST RESULT	UNITS	MCL	DLR	LAST SAMPLE	FREQ MON THS	NEXT SAMPLE DUE	NOTES
4210022 - 006	4210022 GOLDEN STATE WATER COMPANY - LAKE MARIE	006	VINEYARD WELL 06						
	GP SECONDARY/GP								
	00440 BICARBONATE ALKALINITY	260	MG/L	-----	-----	2017/02/21	36	2020/02	
	00916 CALCIUM	100	MG/L	-----	-----	2017/02/21	36	2020/02	
	00445 CARBONATE ALKALINITY	<	2.0 MG/L	-----	-----	2017/02/21	36	2020/02	
	00940 CHLORIDE	62	MG/L	500	-----	2017/02/21	36	2020/02	
	00081 COLOR	<	3.0 UNITS	15	-----	2017/03/21	36	2020/03	
	01042 COPPER	<	50 UG/L	1000	50	2017/02/21	36	2020/02	
	38260 FOAMING AGENTS (MBAS)	<	0.10 MG/L	.5	-----	2017/02/21	36	2020/02	
	00900 HARDNESS (TOTAL) AS CaCO3	350	MG/L	-----	-----	2017/02/21	36	2020/02	
	71830 HYDROXIDE ALKALINITY	<	2.0 MG/L	-----	-----	2017/02/21	36	2020/02	
	01045 IRON	<	100 UG/L	300	100	2017/02/21	36	2020/02	
	00927 MAGNESIUM	24	MG/L	-----	-----	2017/02/21	36	2020/02	
	01055 MANGANESE	<	20 UG/L	50	20	2017/02/21	36	2020/02	



# Monitoring Results

## VINEYARD WELL 06 (4210022-006)

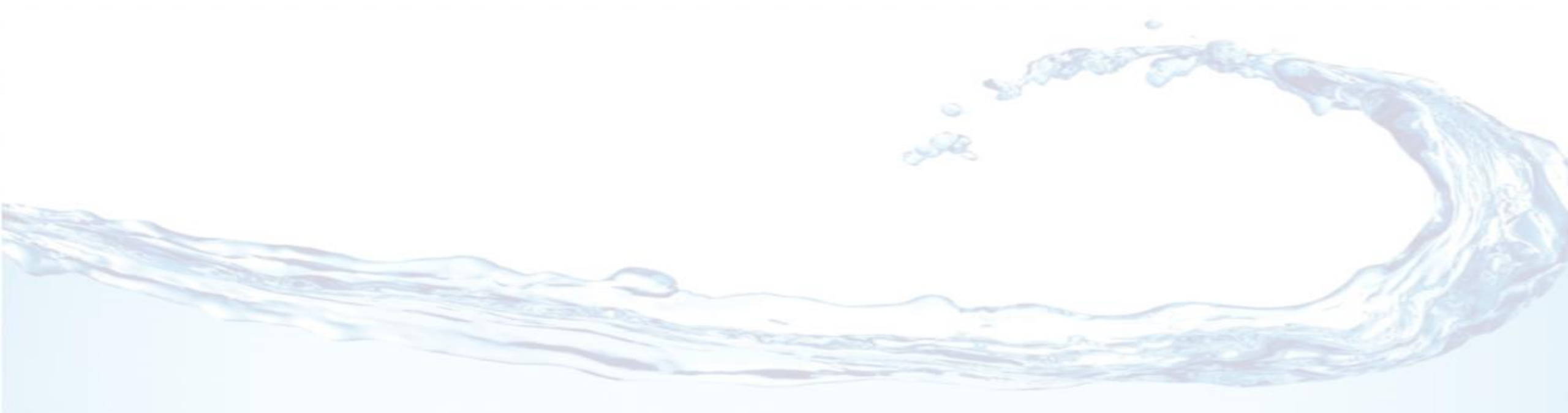
Click to hide / show columns: [Storet Number](#) | [Group/Constituent Identification](#) | [Sampling Date](#) | [XMOD](#) | [Result](#) | [MCL](#) | [DLR](#) | [Trigger](#) | [Unit](#) |

Display  records

Search:

Storet Number ▼	Group/Constituent Identification ▲	Sampling Date ▲	XMOD ▲	Result ▲	MCL ▲	DLR ▲	Trigger ▲	Unit ▲
A-095	3,5-DICHLOROBENZOIC ACID	2012-06-06	<	1.0000	0.000	0.000	0.000	UG/L
A-082	TOTAL RADIUM FOR NTNC PER §64442(b)(3) MDA95	2011-06-01		.3660	1.001	0.000	0.000	PCI/L
A-082	TOTAL RADIUM FOR NTNC PER §64442(b)(3) MDA95	2011-09-14		.4390	1.001	0.000	0.000	PCI/L
A-082	TOTAL RADIUM FOR NTNC PER §64442(b)(3) MDA95	2011-12-07		.4730	1.001	0.000	0.000	PCI/L
A-082	TOTAL RADIUM FOR NTNC PER §64442(b)(3) MDA95	2012-04-11		.5850	1.001	0.000	0.000	PCI/L
A-082	TOTAL RADIUM FOR NTNC PER §64442(b)(3) MDA95	2012-06-06		.4390	1.001	0.000	0.000	PCI/L
A-082	TOTAL RADIUM FOR NTNC PER §64442(b)(3) MDA95	2013-01-02		.4210	1.001	0.000	0.000	PCI/L
A-081	TOTAL RADIUM FOR NTNC PER §64442(b)(3) C.E.	2011-06-01		.1730	0.000	0.000	0.000	PCI/L
A-081	TOTAL RADIUM FOR NTNC PER §64442(b)(3) C.E.	2011-09-14		.2940	0.000	0.000	0.000	PCI/L

# Monitoring Plans & Sample Tracking - Spreadsheets





# Sample Templates for Monitoring Plans

ABC Water Company															
Distribution System Monitoring															
CHEMICAL	MCL /	PHG /	DLR	TRIGGER	INITIAL	ROUTINE	MONITORING SCHEDULE (Month)								
	(AL)	(MCLG)			MONITORING	MONITORING	THIRD COMPLIANCE CYCLE (Initial monitoring designated year, 1993)								
					FREQUENCY	FREQUENCY	First Compliance Period			Second Compliance Period			Third Compliance Period		
	(ppm)	(ppm)	(ppm)		(1st Year)		2011	2012	2013	2014	2015	2016	2017	2018	2019
Total Coliform Bacteria & E. coli (22 CCR Section 64421-64426.5)															
Total Coliform	>5% pos.			1 positive		weekly	weekly	weekly	weekly	weekly	weekly	weekly	weekly	weekly	weekly
E. coli	2 pos.			TC pos.		As required									
General Physical (22 CCR Section 64449.5)															
Color	none					monthly	monthly	monthly	monthly	monthly	monthly	monthly	monthly	monthly	monthly
Odor	none					monthly	monthly	monthly	monthly	monthly	monthly	monthly	monthly	monthly	monthly
Turbidity	none					monthly	monthly	monthly	monthly	monthly	monthly	monthly	monthly	monthly	monthly
Disinfection Byproducts (22 CCR Section 64533, Table 64553-A)															
Total Trihalomethanes (TTHM)	0.080			MCL											
Bromodichloromethane			0.0005			quarterly	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10
Bromoform			0.0005			quarterly	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10
Chloroform			0.0005			quarterly	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10
Dibromochloromethane			0.0005			quarterly	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10
Haloacetic acids (five) (HAA5)	0.060			MCL											
Monochloroacetic Acid			0.002			quarterly	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10
Dichloroacetic Acid			0.001			quarterly	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10
Trichloroacetic Acid			0.001			quarterly	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10
Monobromoacetic Acid			0.001			quarterly	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10
Dibromoacetic Acid			0.001			quarterly	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10
Asbestos (22 CCR Section 64431, 64432.2, Table 64431-A)															
Asbestos	7 MFL	7 MFL	0.2 MFL	MCL		9 years	7								

Chemical Monitoring Plan															
ABC Water Company															
Main Street Well															
CHEMICAL	MCL /	PHG /	DLR	TRIGGER	INITIAL	ROUTINE	MONITORING SCHEDULE (Month)								
	(NL)	(MCLG)			MONITORING	MONITORING	THIRD COMPLIANCE CYCLE (Initial monitoring designated year, 1993)								
					FREQUENCY	FREQUENCY	First Compliance Period			Second Compliance Period			Third Compliance Period		
	(ppm)	(ppm)	(ppm)		(1st Year)		2011	2012	2013	2014	2015	2016	2017	2018	2019
Inorganic Chemicals (22 CCR Section 64431, Table 64431-A)															
Aluminum	1	0.6	0.05	MCL		3 yrs	1			1			1		
Antimony	0.006	0.02	0.006	MCL		3 yrs	1			1			1		
Arsenic	0.05	0.000004	0.002	MCL		3 yrs	1			1			1		
Barium	1	2	0.1	MCL		3 yrs	1			1			1		
Beryllium	0.004	0.001	0.001	MCL		3 yrs	1			1			1		
Cadmium	0.005	0.00004	0.001	MCL		3 yrs	1			1			1		
Chromium	0.05	none	0.01	MCL		3 yrs	1			1			1		
Fluoride	2	1	0.1	MCL		3 yrs	1			1			1		
Mercury	0.002	0.0012	0.001	MCL		3 yrs	1			1			1		
Nickel	0.1	0.012	0.01	MCL		3 yrs	1			1			1		
Selenium	0.05	none	0.005	MCL		3 yrs	1			1			1		
Thallium	0.002	0.0001	0.001	MCL		3 yrs	1			1			1		
Cyanide (22 CCR Section 64431, 64432(n), Table 64431-A)															
Cyanide	0.15	0.15	0.1	DETECT		3 yrs	1			1			1		
Nitrate, Nitrite (22 CCR Section 64431, 64432.1, Table 64431-A)															
Nitrate (as N)	10	10	0.4	50% MCL		quarterly	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10	1,4,7,10
Nitrite (as N)	1	1	0.4	50% MCL		3 yrs	1			1			1		
Asbestos (22 CCR Section 64431, 64432.2, Table 64431-A)															
Asbestos	7 MFL	7 MFL	0.2 MFL	MCL		9 yrs	1								
Perchlorate (22 CCR Section 64431, 64432.3, Table 64431-A)															
Perchlorate	0.006	0.006	0.004	MCL		Yearly	1	1	1	1	1	1	1	1	1
Secondary Standards (22 CCR Section 64449, Table 64449-A)															
Aluminum	0.2	0.6	0.05	MCL		3 yrs	(See IOC Monitoring Requirements)			(See IOC Monitoring Requirements)			(See IOC Monitoring Requirements)		

# Sample Tracking

[illegible]

# Monitoring Schedules and Data Tracking Evolution

## Evolution of Methods:

1. Hardcopy – lots of paper!



2. Excel Files and Tracking Sheets



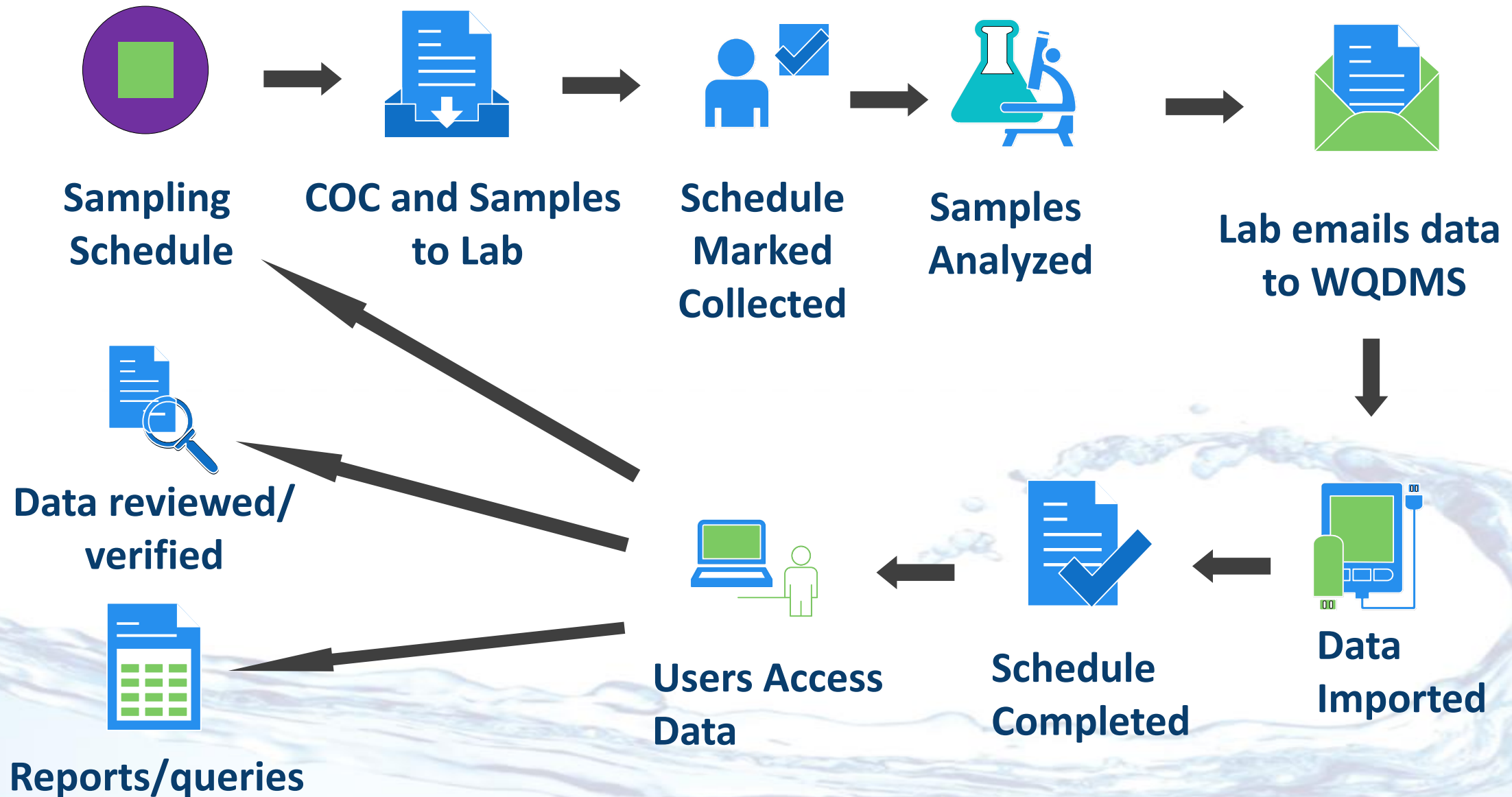
3. Searchable Database and Tracking Sheets



4. Searchable Database with Advanced Schedule Tracking and Other Capabilities



# WQDMS Data Flow



# WQDMS Applications - Schedules

## Criticality schedule:

https://gswc.njbsoft.com/samswater/ SAMSWater

brinde User Dashboard (17188) Set My Start Page :- Map Water GSWC - Clearlake

Facility Setup Custom Setup Schedule Management Sample Management View Results Documents Admin Management

Criticality Schedules

Export Group By Generate COC Show My Schedules Assign Mark Collected Mark Completed Generate Bottle Label

Current Schedule List Contaminant ☒

Is Select	Project Number	Sample Site	Start Date	End Date	Site Group	Contaminants	Schedule Type	Is Invalid
<input type="checkbox"/>								
Schedule Type: Approaching Deadline (1 week)								
<input type="checkbox"/>	CL-LS-SW-01 - Clearlake Intake (Lake Shore Booster) Microbials -Weekly	CL-LS-SW	10/08/2017	10/14/2017	Source	E. coli#Total Coliform	Approaching Deadline	
<input type="checkbox"/>	CL Microbials Bi-Weekly Cycle 1	CL-D01	10/08/2017	10/14/2017	Distribution	Total Coliform	Approaching Deadline	
<input type="checkbox"/>	CL Microbials Bi-Weekly Cycle 1	CL-D02	10/08/2017	10/14/2017	Distribution	Total Coliform	Approaching Deadline	
<input type="checkbox"/>	CL Microbials Bi-Weekly Cycle 1	CL-D03	10/08/2017	10/14/2017	Distribution	Total Coliform	Approaching Deadline	
Schedule Type: Monthly (Short Term Deadline)								
<input type="checkbox"/>	CL DBP Quarterly	CL-D02	10/01/2017	10/31/2017	Distribution	Bromoacetic Acid#bromodi	Monthly (Short Term	
<input type="checkbox"/>	CL DBP Quarterly	CL-D03	10/01/2017	10/31/2017	Distribution	Bromoacetic Acid#bromodi	Monthly (Short Term	
<input type="checkbox"/>	CL General Physical Monthly	CL-D01	10/01/2017	10/31/2017	Distribution	Color#Odor#Turbidity	Monthly (Short Term	
<input type="checkbox"/>	CL General Physical Monthly	CL-D02	10/01/2017	10/31/2017	Distribution	Color#Odor#Turbidity	Monthly (Short Term	
<input type="checkbox"/>	CL General Physical Monthly	CL-D04	10/01/2017	10/31/2017	Distribution	Color#Odor#Turbidity	Monthly (Short Term	
<input type="checkbox"/>	CL-LS-SW-01 - Clearlake Intake (Lake Shore Booster) E. coli - Biweekly	CL-LS-SW	10/16/2017	10/20/2017	Source	E. coli	Monthly (Short Term	
<input type="checkbox"/>	CL-LS-SW-01 - Clearlake Intake (Lake Shore Booster) E. coli - Biweekly	CL-LS-SW	10/30/2017	11/03/2017	Source	E. coli	Monthly (Short Term	
<input type="checkbox"/>	CL-LS-SW-01 - Clearlake Intake (Lake Shore Booster) Microbials -Weekly	CL-LS-SW	10/15/2017	10/21/2017	Source	E. coli#Total Coliform	Monthly (Short Term	
<input type="checkbox"/>	CL-LS-SW-01 - Clearlake Intake (Lake Shore Booster) Microbials -Weekly	CL-LS-SW	10/22/2017	10/28/2017	Source	E. coli#Total Coliform	Monthly (Short Term	
<input type="checkbox"/>	CL-LS-SW-01 - Clearlake Intake (Lake Shore Booster) Microbials -Weekly	CL-LS-SW	10/29/2017	11/04/2017	Source	E. coli#Total Coliform	Monthly (Short Term	
<input type="checkbox"/>	CL Orthophosphate Bi-Weekly	CL-D02	10/15/2017	10/21/2017	Distribution	o-Phosphate (as PO4)	Monthly (Short Term	
<input type="checkbox"/>	CL Orthophosphate Bi-Weekly	CL-D02	10/29/2017	11/04/2017	Distribution	o-Phosphate (as PO4)	Monthly (Short Term	

Total Records : 402 Selected Records : 1



# WQDMS Applications – Schedules

## Schedule Alerts :

### SAMSWater Predefined Query - Criticality View - Northern - Approaching Deadline (7 Days)



SampleEye ntID	SampleSite	ScheduleLabel	SampleDate	Sampler	StartDate	EndDate
360744	CL-D02	CL Orthophosphate Bi-Weekly Biweekly- o-Phosphate (as PO4): - o-Phosphate (as PO4): Schedule 360744			10/15/2017 12:00:00 AM	10/21/2017 11:59:59 PM
361528	CL-D04	CL Orthophosphate Bi-Weekly Biweekly- o-Phosphate (as PO4): - o-Phosphate (as PO4): Schedule 361528			10/15/2017 12:00:00 AM	10/21/2017 11:59:59 PM
358392	CL-D04	CL Microbials Bi-Weekly Cycle 2 Biweekly- Total Coliform (PA): - Total Coliform (PA): Schedule 358392			10/15/2017 12:00:00 AM	10/21/2017 11:59:59 PM
359176	CL-D05	CL Microbials Bi-Weekly Cycle 2 Biweekly- Total Coliform (PA): - Total Coliform (PA): Schedule 359176			10/15/2017 12:00:00 AM	10/21/2017 11:59:59 PM
359960	CL-D06	CL Microbials Bi-Weekly Cycle 2 Biweekly- Total Coliform (PA): - Total Coliform (PA): Schedule 359960			10/15/2017 12:00:00 AM	10/21/2017 11:59:59 PM
13092	CL-LS-SW	CL-LS-SW-01 - Clearlake Intake (Lake Shore Booster) Microbials -Weekly Weekly- E. coli (counts) , Total Coliform (counts): - E. coli (counts) , Total Coliform (counts): Schedule 13092			10/15/2017 12:00:00 AM	10/21/2017 11:59:59 PM
3106935	CL-LS-SW	CL-LS-SW-01 - Clearlake Intake (Lake Shore Booster) E. coli - Biweekly Biweekly- E. coli: - E. coli: Schedule 2162686			10/16/2017 12:00:00 AM	10/20/2017 11:59:59 PM

# WQDMS Applications – Data Query

**Extract data from database for:**

- Reporting
- Analysis
- Data requests

The screenshot displays the 'Query Results - All Sites (Current System)' window. It features a toolbar with icons for Export, Group By, and search. Below the toolbar is a table with the following columns: SampleDate, SiteID, SiteName, Contaminant, Result, and Unit. The table contains 13 records. The 7th record is selected, showing a result of 0.72 mg/L for Chlorine (free) at the Pinedell Sample Station. A 'Predefined Queries' dialog box is open in the foreground, showing a list of query titles: Analytical Results, Compliance Frequency/Schedules, Project/Database, Sample Sites, and Test. The 'Export to' dropdown is set to 'None', and the 'Show Report' button is visible. The 'Cancel' button is at the bottom right of the dialog box.

SampleDate	SiteID	SiteName	Contaminant	Result	Unit
09/13/2017 10:30:00	CL-D01	01 - Lakeshore Sample Station	Chlorine (free)	1.12	mg/L
09/27/2017 09:08:00	CL-D01	01 - Lakeshore Sample Station	Chlorine (free)	0.48	mg/L
09/03/2017 12:00:00	CL-D02	02 - Pinedell Sample Station	Chlorine (free)	0.77	mg/L
09/10/2017 12:00:00	CL-D02	02 - Pinedell Sample Station	Chlorine (free)	0.88	mg/L
09/11/2017 12:00:00	CL-D02	02 - Pinedell Sample Station	Chlorine (free)	0.59	mg/L
09/13/2017 09:12:00	CL-D02	02 - Pinedell Sample Station	Chlorine (free)	0.72	mg/L
09/27/2017 10:00:00	CL-D02	02 - Pinedell Sample Station	Chlorine (free)	0.72	mg/L
09/13/2017 12:00:00	CL-D03	03 - Oakcrest Sample Station			
09/13/2017 09:25:00	CL-D03	03 - Oakcrest Sample Station			
09/27/2017 09:37:00	CL-D03	03 - Oakcrest Sample Station			
09/01/2017 12:00:00	CL-D04	04 - Davis Sample Station			
09/02/2017 12:00:00	CL-D04	04 - Davis Sample Station			
09/04/2017 12:00:00	CL-D04	04 - Davis Sample Station			
09/06/2017 10:04:00	CL-D04	04 - Davis Sample Station			

Total Records : 138 | Selected Records : 1

Predefined Queries

Export to: None | Show Report

Query Title

- + Analytical Results
- + Compliance Frequency/Schedules
- + Project/Database
- + Sample Sites
- Test

Cancel

## Automated Reports (excel based)

- 
- The screenshot shows a software window titled "Report Template". Inside, there is a "Template List" section with a toolbar containing icons for opening files, saving, deleting, and a file icon, along with an "Export" button and a "Group By" dropdown menu. Below the toolbar is a table with a "Label" column. The table lists various report templates. The "Quarterly MRDL Report" is highlighted with a blue selection bar. A right-click context menu is open over this row, displaying two options: "Generate Report" and "Download Template".
- | Label                                       |
|---|
| Monthly Surface Water Coliform Report       |
| NPDES Annual Report Template                |
| NPDES All Data Report                       |
| DS Physical Water Quality Report_Template   |
| Source Samples Collected Per Scheduled Freq |
| Historical Schedule Validation TEST         |
| Dist Fluoride Monthly Rpt                   |
| Conventional SWTP TOC Report                |
| Quarterly MRDL Report                       |
| Water System Residual                       |
| DBP Quarterly Report                        |
| Monthly Schedule Format 2                   |
| Water System Residual Demand Report         |

1st Quarter			
Month		Number of Samples Taken	Monthly Ave. Chlorine Level (mg/L)
Previous Year	April		0.68
	May		0.60
	June		0.55
	July		0.57
	August		0.57
	September		0.63
	October		0.69
	November		0.57
	December		0.76
	Current Year		January
February		12	0.63
March		12	0.71
Running Annual Average (RAA):			0.64
Meets standard?		X	Yes
(i.e. $RAA \leq MRDL$ of 4.0 mg/L as $Cl_2$ )			No

# WQDMS Applications – Report example

A	B	F	G	H
Water System <sup>5</sup>	Typical Disinfectant Residual Type <sup>1</sup>	Entry Point Residual Average <sup>2</sup>	Detected Distribution Residual Average <sup>3</sup>	Demand <sup>4</sup> (Entry point - Distribution)
GSWC - Apple Valley North	Chlorine	0.95	0.95	0.00
GSWC - Apple Valley South	Chlorine	0.84	0.7	0.14
GSWC - Arden	Chlorine	0.95	0.91	0.04
GSWC - Artesia	Chlorine	1.19	1.11	0.08
GSWC - Barstow	Chlorine	1.59	1.41	0.18
GSWC - Bell-Bell Gardens	Chlorine	1.14	1.12	0.02
GSWC - Calipatria	Chlorine	0.73	0.74	0.00
GSWC - Cordova	Chlorine	1.05	0.9	0.15
GSWC - Cypress Ridge	Chlorine	1.13	1.04	0.09
GSWC - Desert View	Chlorine	0.86	0.7	0.16
GSWC - Los Osos	Chlorine	1.07	0.98	0.09
GSWC - Lucerne	Chlorine	0.86	0.8	0.06
GSWC - Morongo del Sur	Chlorine	0.89	0.84	0.05
GSWC - Simi Valley	Chlorine and Chloramine	1.88	1.85	0.03
GSWC - Sisquoc	Chlorine	1.04	0.92	0.12
GSWC - South San Gabriel	Chlorine	1.20	1.25	0.00
GSWC - West Orange	Chlorine and Chloramine	1.10	1.07	0.03
GSWC - Willowbrook	Chlorine and Chloramine	1.18	0.94	0.24
GSWC - Wrightwood	Chlorine	0.91	0.72	0.19
GSWC - Yorba Linda	Chlorine and Chloramine	1.62	1.56	0.06



# Future Applications

- SAMSWater Mobile Application
  - Users can directly import field data using phone or tablet



# Summary

Electronic WQDMS tools can help manage water quality compliance and optimize operations:

WQDMS Tool	Benefits
Sample Schedule Tracking	Manage compliance for multiple sample sites and analytes
Schedule Alerts	Track upcoming deadlines and missed sample events
Data Queries	Time savings; can export results; can schedule results to be emailed
Automated Reports	Time savings; standardized report format
Custom Report – Chlorine Demand	Identify systems with high chlorine demand that need further analyses and possibly operational changes



# Questions?

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