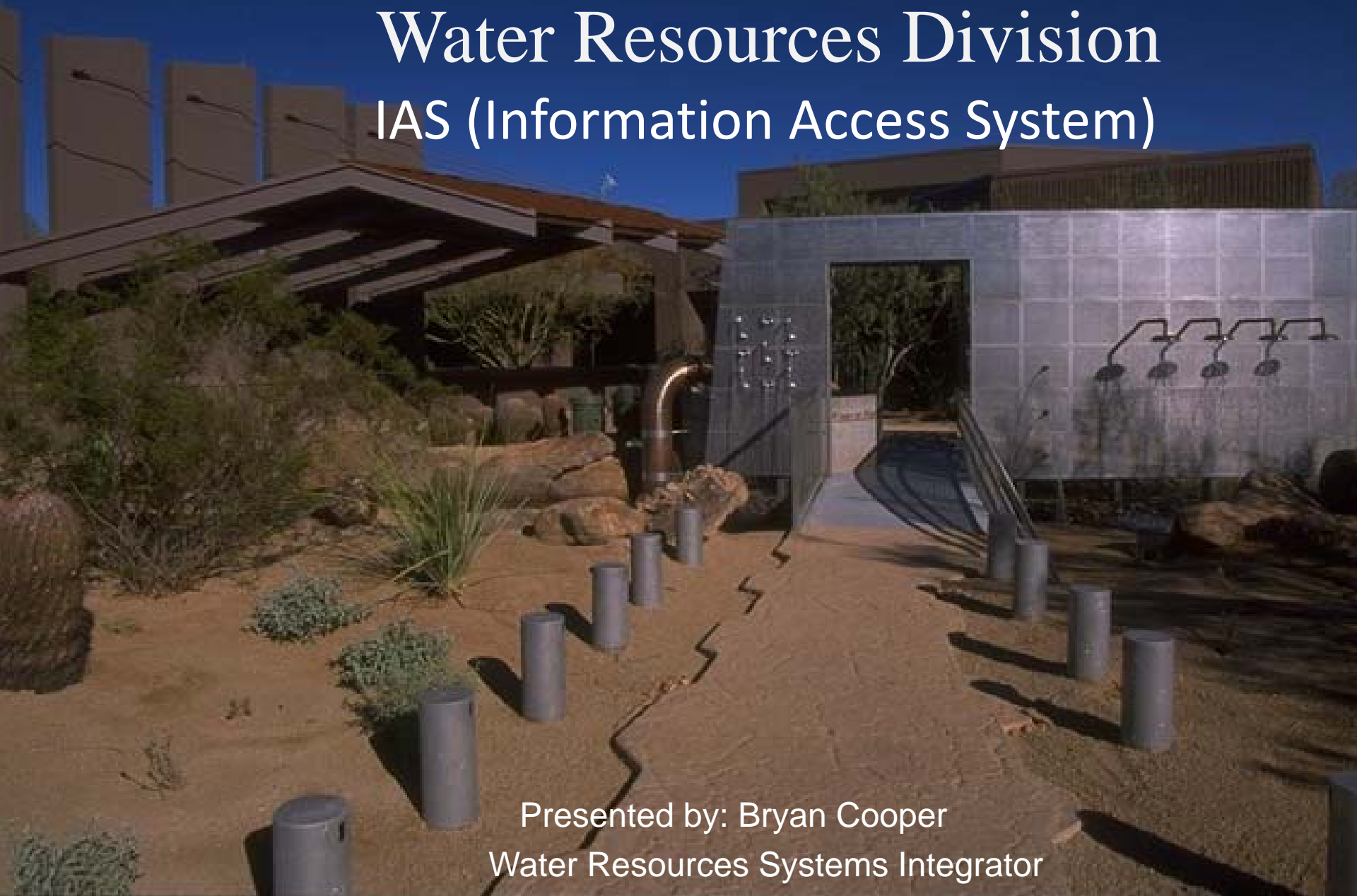


# City of Scottsdale Water Resources Division IAS (Information Access System)



Presented by: Bryan Cooper  
Water Resources Systems Integrator

# IAS (Information Access System)

The Information Access System is a City intranet web portal that allows anyone in the City's Water Division to access many different data sources from this site. It links many different web apps along with links to external web sites and also links to data that may not be considered web applications. We use this site to get web based reports and also submit data from submittal forms to generate reports for such things as round, readings, check sheets and plant-process lab results. This site is used as a one stop shop for such things listed below.

- Live – Real Time Scada Monitoring.
- Live – Real Time Security Camera Monitoring.
- Web based / submittal forms. Rounds, Readings, Labs, Site Inspections.
- SCADA – LIMS – CMMS – GIS – PAYROLL/BUDGET – LINKO – Vehicle Tracking/Inventory web reports.
- CAD – Facility As-Built Drawings
- IAS – Electronic Operations Manuals Web Site.
- W/O – Work Order CMMS Web Site.
- COOL – Computer Online Operations Log Web Site.
- Water GIS Web Site.
- eDWaRD – Electronic Drinking Water Regulatory Database Web Site.



## Page Functions


☐ Add New Module
 ☐ Add Existing Module

Module: <Select A Module>    Panel: ContentPane   

Title:    Insert: Bottom    Add

Visibility: Same As Page    Align: Left

## Common Tasks



# Water Resources Department

## INFORMATION ACCESS SYSTEM

[Home](#)
[Administration](#)
[Scada Terminal](#)
[Treatment](#)
[Data Entry Forms](#)
[LIMS](#)
[CMMS](#)
[Admin Module](#)
[CAD Drawings](#)
[RSS Feeds](#)
[Admin](#)

Search

Tuesday, November 02, 2010

... Home ...

Bryan Cooper Logout

LeftPane

## ContentPane

## RightPane

## Links

- Create A Work Order
- CAP Entrance Gate Camera
- Campus Administration Gate Camera
- Campus Maintenance Gate Camera
- CAP - Real Time Water Quality Data
- CAP - Water Quality Data Query
- CAP - Operations And Water Quality Website
- City Internet Website
- CityLine
- COOL - Scada alarm viewer
- City Intranet Website
- Dashboard
- eDWARD - Electronic Drinking Water Regulatory Compliance Tracking System
- Electronic Operation & Maintenance Manuals
- Emergency Management: Icolbox
- General Computer Questions: How Can I Do That?
- Information Systems - Ext. 27627

## Announcements

## Data Entry IT Web Forms - Thursday, November 30, 2006

Data Entry IT Web Forms are in the development stage with more forms to come in the future. Web forms will enable us to move away from paper and clip boards and enter data electronically from any computer anywhere (Possibly Mobile in the future). Two web forms are presently working.

- Campus - 24 Hr Composite Sample Web Form
- Campus - Avg Mils and Res Crsh Sample Web Form
- CAP - Lab Data Entry Form

## EOMS - Electronic Operations Manuals - January 25, 2007

The EOMS - Electronic Operations Manuals now reside on the city's server. You no longer have to login, the site will authenticate your city user ID. Check out the LUMs by clicking on the Link to the left of this page. Please review as many manuals and contact us you can. Any comment should be forwarded to Bryan Cooper.

- Note:** When the EOM's page opens, the back button in the Internet Explorer doesn't work properly. To use the page backwards feature you have to click on the Electronic O&M's City of Scottsdale icon in the top left page of the IE.

## Facility As-Built Drawings - Friday, December 08, 2006

We have electronic facility as-built drawings online. You can access the drawings from the CAD Drawings menu above. More Facility drawings will be added in the future.

## Web Site Security - Tuesday, October 03, 2006

Web site security has been enabled. Users need to be verified before being granted rights to features and menus on this web site. This is done the first time you open this web site by authenticating you as a scottsdale1 user on our site. The systems administrator will then grant the user rights and privileges to features and menus for those authenticated user. If you do not have access to certain features+ menus reports, email the systems administrator.

## Centralized Maintenance Management System (CMMS) - Wednesday, September 27, 2006

The following CMMS reports are now linked and available for review: All Work Orders - Opened Work Orders - Closed Work Orders.

## Current Temps



Edit Text

## UsersOnline

**Membership:**  
 Latest: SCOTTSDALE1  
 WCaradonna  
 New Today: 0  
 New Yesterday: 0  
 Overall: 203

**People Online:**  
 Visitors: 0  
 Members: 1  
 Total: 1

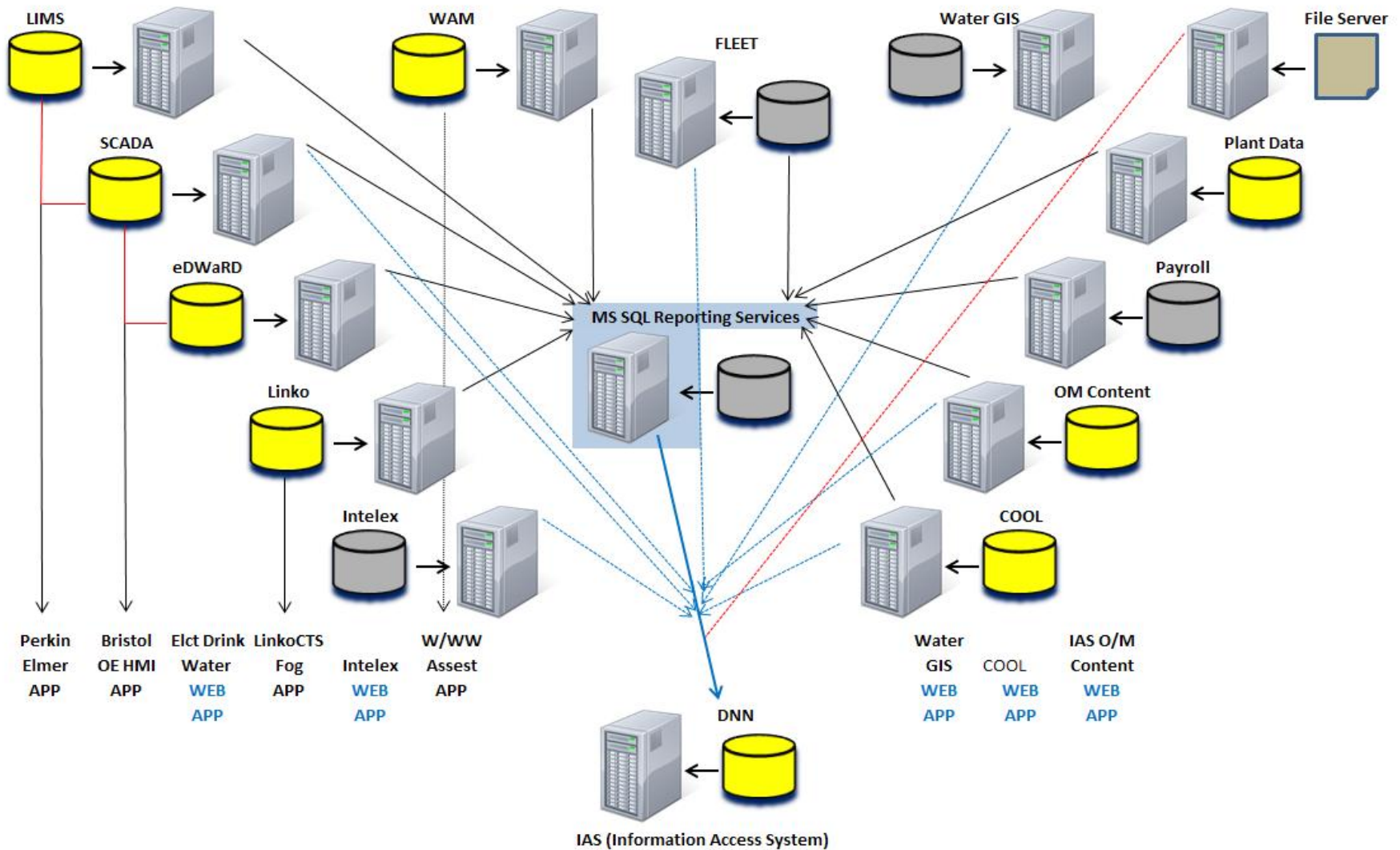
**Online Now:**  
 11:15 am Scottsdale1 (b) Cooper

## Feedback

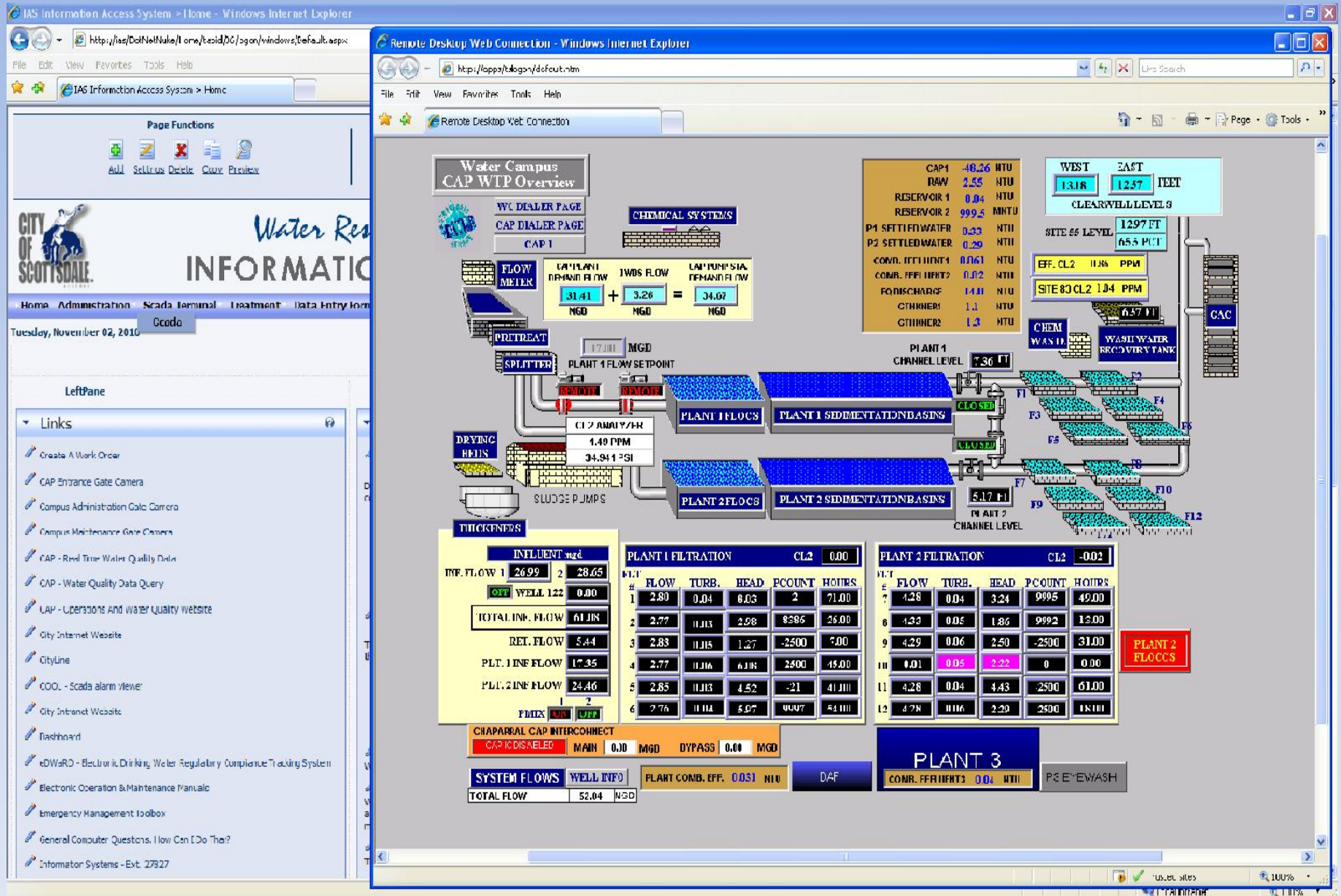
Email

LIMS - Report Manager - Windows Internet Explorer						
http://reports/ReportsPages/Folder.asp?ItemPath=%2FWater+Resources%2FWater+Quality%2FLIMS&ViewMode=Detail						
File Edit View Favorites Tools Help						
LIMS - Report Manager						
Home > Water Resources > Water Quality						
City of Scottsdale Reporting Services						
LIMS						
Delete Move New Folder New Data Source Report Builder Folder Settings Upload File						
Title View						
<input type="checkbox"/>	Type	Name	Description	Last Run	Modified Date	Modified By
<input type="checkbox"/>		Arsenic Site 115 All Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 115 As Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 115 POC215 Results		6/24/2010 5:50 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 115 Well 106 Results	Items in LIMS	6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 115 Well 115 Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 115 Well 38 Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 115 Well 41 Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 115 Well 51 Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 32 All Results		6/24/2010 5:50 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 32 As Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 32 POC232 Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 32 Well 23 Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 32 Well 32 Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 7 All Results	ATF Site 7 - All Sample Results	6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 7 As Results		6/24/2010 5:50 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 7 POC 7 Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 7 Well 27 Results	ATF Site 7 - Well 27 Results	6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 7 Well 28 Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Arsenic Site 7 Well 7 Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Campus All BOD Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Campus All Results		6/24/2010 5:50 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Campus All ROD Results	Campus - All ROD - All ROD Sample Results	6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Campus Eff ROD Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Campus Fecal Coliform Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Campus In EOD Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Campus Res3 Eff Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		CAP Coliform Results		6/24/2010 5:50 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		CAP Gne Mib Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		Cap Plant All Results	All Sample Results	6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	
<input type="checkbox"/>		CAP POC215 Results		6/24/2010 5:58 PM	SCOTTSDALE\BCCOOPER	

# IAS and File-Server Network Topology



# Live – Real Time Scada Monitoring



# Live – Real Time Security Camera Monitoring

Internet Explorer window showing the IAS Information Access System interface.

Address bar: <http://scottsdale.net/ias/home/rahit/shilgin/windows/default.aspx>

Page Functions: Add, Settings, Delete, Copy, Preview

City of Scottsdale Water Resources Department INFORMATION ACCESS

Home Administration Scada Terminal Treatment Data Entry Forms LIMS CMMS Admin


Tuesday, November 02, 2010

LeftPane

- Links
  - Create A Work Order
  - CAP Entrance Gate Camera
  - Campus Administration Gate Camera**
  - Campus Maintenance Gate Camera
  - CAP - Real Time Water Quality Data
  - CAP - Water Quality Data Query
  - CAP - Operations And Water Quality Website
  - City Internet Website
  - CityLine
  - COOL - Scada alarm viewer
  - City Internet Website
  - Dashboard
  - eDWRD - Electronic Drinking Water Regulatory Compliance Tracking System
  - Electronic Operation & Maintenance Manuals
  - Emergency Management Toolbox
  - General Computer Questions: How Can I Do That?
  - Information Systems - Text: / R / I
- Announcements
  - Data Entry IE Web Forms
    - Data Entry IE Web Forms are in the computer anywhere (Possibly Mobile)
    - Campus - 24 hr Composite
    - Campus - Avg Mils and R
    - CAP - 14h Data Entry Form
  - EDMs - Electronic Operations
    - The EDMs - Electronic Operations this page. Please review as many
    - Note: When the EDM's page icon in the top left page of
  - Facility As-Built Drawings
    - We have electronic facility as-built
  - Web Site Security - Tuesday, October 03, 2006
    - Web site security has been enabled. Users need to be verified before being granted rights to features and menus on this web site. This is done the first time you open this web site by authenticating you as a scottsdale user on our site. The systems administrator will then grant that user rights and privileges to features and menus for those authenticated user. If you do not have access to certain features - please report by email the systems administrator.
  - Centralized Maintenance Management System (CMMS) - Wednesday, September 27, 2006
    - The following CMMS reports are now linked and available for review: All Work Orders Opened Work Orders Closed Work Orders.

Administration Gate Camera

Main Gate  
CAP Gate



Menu  
Control

Contents  
Control the PAN/TILT and move to the Preset Position

Open Gate  
Close Gate

Home

JVC

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Feedback  
Email:

# Rounds-Readings-Labs-Site Inspections - Submittal forms

CCTF Rounds - Report Viewer - Windows Internet Explorer

Start Date: 11/1/2010 End Date: 11/2/2010 11:00:00 PM View Report

1 of 1 100% Find Next

## ndwater Treatment Facility - Daily Readings Nov 2010

System Data					Chlorine Residual			H2O Softener	Brine Tank		Bleach Tank Lvl		Bleach Gen Check		Bleach Feed Pump Check				Column Water Flow - gpm			Column Pack	
Time	Relative Humidity	Raw H2O Temp	Scada H2O Temp	Lab Frig Temp	Site 31	Site 79	Site 80	Hardness Grains	Salt Lvl	Brine Lvl	Tank 1	Tank 2	Gen 1	Gen 2	Pump 1	Pump 2	Pump 3	Pump 4	#1	#2	#3	#1	#2
0745	40.9	81.8	91.9	5.0	0.55		0.95		10.64	5.6	6085	6003	OFF	OFF	ON	OFF	OFF	OFF	1795	1805		3.3	2.7
0645	29.9	82.5		4.8	0.55		0.95		10.62	5.7	5016	5016	ON	OFF	OFF	OFF	OFF	ON	1796	1800		3.4	2.8

Cap Lab Report - Report Viewer - Windows Internet Explorer

Report Date: 11/1/2010

1 of 1 100% Find Next

## City of Scottsdale Water Treatment Plant

### Daily Laboratory Log

11/1/2010

A Blank form can be printed from the data

Report Viewer - Windows Internet Explorer

Start Date: 11/1/2010 End Date: needs to be 1 day less than Start Date: 10/31/2010 View Report

1 of 1 100% Find Next Select a format Export

## CITY OF SCOTTSDALE - GAINFORD RANCH WATER RECLAMATION PLANT

### LABORATORY DAILY ANALYSIS REPORT

Daily Process Testing - 24 Hr Composite Sample Form - Windows Internet Explorer

## Daily Process Testing - 24 Hr Composite Sample Form

RAW INFLUENT			PRY. EFFLUENT			SEC. EFFLUENT		
COD	149	mg/L	COD	49	mg/L	COD	29.3	mg/L
TSS	275	mg/L	TSS	78	mg/L	TSS	12	mg/L
pH	7.7	None	pH	8.12	None	pH	7.74	None
NH3 as N	18.1	mg/L	Alkalinity	210	mg/L	Alkalinity	158	mg/L
			NH3 as N	15.2	mg/L	NH3 as N	0.126	mg/L
			Phosp as P	4.27	mg/L	Nitrite as N	0.102	mg/L
						Nitrate as N	3.05	mg/L
						Phosp as P	2.02	mg/L

CL2 CNTCT. BASIN			SAMPLE / TEST			GRAB SAMPLE		
COD	204	mg/L	Eff Cond	926	None	Operator	IB	
TSS	11	mg/L	Sec Eff Ntu	1.22	None	Initials		
pH	8.13	None				Date	11/1/2010	(MM/DD/YYYY)
Alkalinity	160	mg/L				Time	1025	HH:MM AM/PM
NH3 as N	0.396	mg/L				pH	7.37	None
Nitrite as N	0	mg/L				Turbidity Ntu	0.853	None
Nitrate as N	1.55	mg/L				Cl2 Residual Total	2.9	None

YST: 55

Pond Level in Feet		
Level	0	Foot

### \*\*\* SETTLEOMETER \*\*\*

	SSV	SVI
In.	270	
10 min.	180	69
15 min.	160	

### \* CARBON SCRUBBER \*\*\*\*\*

Temp	In H2S	Out H2S	Psi Drop
7	0.060	0.003	1.0

Bank	UV Intensity	# of Banks
4		
32		
33		

### SAMPLE COLLECTION \*\*\*\*\*

Output	Online
48	7

# Web Based – MS SQL Services Reports

Report Viewer - Windows Internet Explorer

Star Date: 10/1/2010 End Date: 11/1/2010

Sample Location: GAINNEY-DAILY, GR-EFF, GR-IN Analyte: BOD, 5 Day, Chloride, Cl, Chlo

View Report

1 of 4 100% Find Next Select a format Export

## All Gainney Test Results

Sample Collected	Collect By	Sample ID	Project	Sample Location	Test Name	Reported Rst	MDL	Units
10/31/2010 11:15:00 AM	JETTIE	AE18966	DAILY	GAINNEY DAILY	Chlorine Residual, Free	0.72	0.02	mg/L
10/31/2010 11:15:00 AM	JETTIE	AE18966	DAILY	GAINNEY-DAILY	pH, Field	7.24		Std. Units
10/31/2010 11:15:00 AM	JETTIE	AE18966	DAILY	GAINNEY-DAILY	Turbidity (Field)	0.61		NTU
10/31/2010 11:15:00 AM	JETTIE	AE18966	DAILY	GAINNEY-DAILY	UV Intensity	40		mJ/cm2
10/30/2010 11:20:00 AM	JETTIE	AE18966	DAILY	GAINNEY-DAILY	Chlorine Residual, Free	0.62	0.02	mg/L
10/30/2010 11:20:00 AM	JETTIE	AE18966	DAILY	GAINNEY-DAILY	pH, Field	7.2		Std. Units
10/30/2010 11:20:00 AM	JETTIE	AE18966	DAILY	GAINNEY-DAILY	Turbidity (Field)	0.44		NTU
10/30/2010 11:20:00 AM	JETTIE	AE18966	DAILY	GAINNEY DAILY	UV Intensity	48		mJ/cm2
10/29/2010 10:50:00 AM	JETTIE	AE18961	DAILY	GAINNEY-DAILY	Chlorine Residual, Free	0.74	0.02	mg/L
10/29/2010 10:50:00 AM	JETTIE	AE18961	DAILY	GAINNEY-DAILY	pH, Field	7.20		Std. Units
10/29/2010 10:50:00 AM	JETTIE	AE18961	DAILY	GAINNEY-DAILY	Turbidity (Field)	0.62		NTU
10/29/2010 10:50:00 AM	JETTIE	AE18961	DAILY	GAINNEY-DAILY	UV Intensity	49		mJ/cm2

Report Viewer - Windows Internet Explorer

Star Date: 10/1/2010

End Date: 10/31/2010 11:00:00 PM

View Report

1 of 1 100%

Find Next

Select a format

Export

Gainney Process Lab Data For Oct 2010

Day	Lab Op	Plant Status	Inf Flow Mgd	Raw Influent Composite Samples						Alkalinity mg/l	NH3-N mg/l
				BOD		COD		TSS			
Target Range	Initials	On-Off	0.9-1.7	mg/l	Lbs	mg/l	Lbs	mg/l	Lbs	mg/l	mg/l
1	JGJ	Online	1.531								
2	JGJ	Online	1.607								
3	JGJ	Online	1.604			7.72	4640	474	4724		31.5
4	BM	Online	1.604					220	2944		
5	BM	Online	1.600			230	3079	387	5180		27.1
6	BM	Online	1.600					354	4737		
7	BM	Online	1.600					338	4523		
8	SK	Online	1.600								
9	SB	Online	1.600								
10	BM	Online	1.600					316	4229		
11	BM	Online	1.604								
12	SB	Online	1.618			333	1378	385	5293		58.8

Report Viewer - Windows Internet Explorer

Star Date: 11/1/2010 End Date: 11/1/2010 11:00:00 PM

View Report

1 of 1 100% Find Next Select a format Export

## Gainney Hourly Totals For Nov 2010

Date/Time	Inf Flow Mgd	Inf Flow Setpoint	Reclaim Flow Mgd	Bypass Resd Flow Mgd	Return Flow Mgd	Ras % Return	Waste Flow Mgd	Bleach Tank Gals	Bleach Tank Lvl	A Ru Mi
11/1/2010 12:00:00 AM	0.062	1.500	0.028	0.007	0.034	52.95	0.002	396	5.21	
11/1/2010 1:00:00 AM	0.062	1.500	0.028	0.006	0.034	52.95	0.002	396	5.27	
11/1/2010 2:00:00 AM	0.062	1.500	0.028	0.006	0.034	52.95	0.002	396	5.27	
11/1/2010 3:00:00 AM	0.062	1.500	0.028	0.009	0.034	52.95	0.002	396	5.27	
11/1/2010 4:00:00 AM	0.062	1.500	0.000	0.065	0.031	52.95	0.002	383	5.23	
11/1/2010 5:00:00 AM	0.062	1.500	0.000	0.065	0.034	53.10	0.002	371	5.07	
11/1/2010 6:00:00 AM	0.062	1.500	0.033	0.031	0.034	53.10	0.002	371	5.07	
11/1/2010 7:00:00 AM	0.062	1.500	0.000	0.060	0.034	53.02	0.002	371	5.07	
11/1/2010 8:00:00 AM	0.062	1.500	0.000	0.065	0.034	53.10	0.002	371	5.07	
11/1/2010 9:00:00 AM	0.062	1.500	0.020	0.013	0.031	53.10	0.002	371	5.07	
11/1/2010 10:00:00 AM	0.062	1.500	0.025	0.038	0.033	53.44	0.002	371	5.07	
11/1/2010 11:00:00 AM	0.062	1.500	0.004	0.061	0.034	53.00	0.002	371	5.07	
11/1/2010 12:00:00 PM	0.062	1.500	0.058	0.007	0.034	53.00	0.002	371	5.07	
11/1/2010 1:00:00 PM	0.062	1.500	0.060	0.006	0.025	52.00	0.002	371	5.07	

# Electronic Operations Manuals – CAD Facility As-Built Web Site

Facility As-Built Drawings - Windows Internet Explorer

Scottsdale IAS Windows Internet Explorer

File Edit View Favorites Tools Help

http://ias/AS/index.cfm?FacilityID=55

Scottsdale IAS

Arsonic Site 115 EOM

Arsonic Treatment System

Background Theory Operating Strategies Equipment Procedures Design Criteria Troubleshooting Safety Alarm

Man Menu

- Site Map
- Site Status
- Search
- Training
- Glossary

O&M Manuals

- Select facility

As Remove Site 115 O&M

- Facility Overview
- Facility Descript ...
- Water Quality
- MSDS
- Permits
- Water Bending
- Well Facilities
- As Treatment System
- Treated Water
- Disinfection
- Power Supply
- Compliance Monit

Facility Drawings

- ATF Site115 AS-Built ...

Documents

- Browse Documents
- Manage Documents

Administration

- Contact Administrator...
- Admin

User: DC600PR

Arsonic Treatment Contactor

Jump to: .....

**BACKGROUND**

The purpose of the arsenic treatment system is to accomplish the following:

- Reduce arsenic concentrations in Site 115 groundwater using arsenic adsorption contactors.
- Comply with the EPA Arsenic Rule that requires a drinking water arsenic concentration below the maximum contaminant level (MCL) of 10 µg/L and the City's limit goal of 8 µg/L.

**OVERVIEW**

The arsenic treatment system consists of the following major components:

- Four self-cleaning filters (Nos. 1 through 4)
- One rave pad
- Six adsorption contactors (A through F)
- Two sum pumps

Schematic 1 (as14001) Schematic 2 (as14002) Schematic 3 (as14002)

http://ias/FacilityDrawings/ATFSite115/GenFileG01.pdf Windows Internet Explorer

File Edit Go To Favorites Help

http://ias/FacilityDrawings/ATFSite115/GenFileG01.pdf

18.8%

**CITY OF SCOTTSDALE**

**PUBLIC IMPROVEMENTS**

**ARSENIC TREATMENT FACILITY SITE 115**

21790 NORTH HAYDEN ROAD  
SCOTTSDALE, ARIZONA  
PROJECT NO. W2106C  
BID CALL NO. 05PB088  
VOLUME NO. 3 OF 4

**AD-BUILT CERTIFICATION**

**CITY OF SCOTTSDALE**

**ARSENIC TREATMENT FACILITY - WELL SITE 115**

**PROJECT NO. W2106C**

**BID NO. 05PB088**

**VOLUME NO. 3 OF 4**

**1/2/05-2004**

**34-1P-2004**

**UNIFORMED DOCUMENT**

Equip Number	Year	Make	Model	Serial Number	License
0808300	2000	TOYOTA	PRUIS	JTDK020U593027712	G815-R
0901331	2001	TOYOTA	SUBARU VAN	JFNGK26U21K0203569	G133CH
0906207	2006	FORD	F15C	1FTFR12216K0C1896	G784DS
0906206	2006	FORD	F35C	1FTWV307566EC936382	G708EM
0907261	2007	CHEVROLET	C350	3C0CC0286RUE2413907	G716G7
0908422	2008	FORD	F35C	F0WV73GR3BCD336127	G125CV
0508422-001	2008	STAHL	108VCD	F0WV736K38E3B5127	G129LV
0908423	2008	FORD	F55C	1FADF68R48EEB35125	G284FB
0908424	2008	OTC LIMO	L77500	SF21 ADOG06A277804	G205DF
0908425	2008	FORD	F35C	1FDF5F1618EEB8965	G313FB
0508425-001	2008	STAHL	108VCD	F0DSF34R58EC88965	G313FB
0908426	2008	FORD	F35C	F0DSF34R18ED13229	G311FB
0508426-001	2008	STAHL	108VCD	F0DSF34R18ED13229	G311FB
0904202	2004	FORD	F35C	1FD0X3414ED082408	G354DI
0904206	2004	FORD	F35C	1FD0X140V90502611	G478US
0904257	2004	FORD	F35C	1FD0F34P74F017614	G361PD
0904258	2004	CHEVROLET	C20	3GCGC24R4XV0261663	GAU09P
0904295	2004	FORD	F35C	1FTSF30P94ED47633	G414DL
0504296-001	2004	STAHL	90VC3	1FTG7G0P9H1ED17030	G414DL
0904297	2007	FORD	F35C	1FD0F66P17EA11321	G057CR
7456	2000	FORD	1 ST DRW SR	1F0YF656VFP37777	G432CM
0906337	2009	FORD	F35C	1FDF3F4R00EA04344	G834FR
0909338	2008	FORD	F35C	F0WV736R59EA93433	G835FR
7203	1990	CHEVROLET	C20	3GCGC24R2VC25502	0824CR
0909339	2009	CHEVROLET	Subaru	1F0YF331929815139	G432CM
0907332	2007	FORD	F15C	1FTFR12237NA43485	G148FY
0906208	2006	FORD	F15C	1FTFR12276KC01899	G785DS
7880	1999	AMC	HC-10 SE INL	1A9HC1023X131105	S103CK
0905204	2005	FORD	F15C	1FTVX12505N240608	8617DS
7220	2000	FORD	EXPLORER	1F0YF331929815139	G478US
7276	2002	CHEVROLET	1/2T PUFC	1C0CF15V827336743	G137CK
7275	2002	CHEVROLET	PU EXCB BFL	1C0CC020UXE244106	CA0729
0907333	2007	FORD	F15C	1FTFR12257NA43601	G800UR
0904300	2004	FORD	F15C	2FTFR17W14CA33314	G410D

FASTER Service Center v2.5 - Windows Internet Explorer

File Edit View Favorites Tools Help

http://pms.fasterinc.com/frag.asp

FASTER Service Center v2.5

Trust us to be there **FASTER**  
1.800.755.2783

[search equipment again] [deferred repairs] [graphics] [request for service]

**Equipment Master Record**  
Company: PRODUCTION

Equipment No.: 0607333	Year: 2007	Make: FORD	Model: F-50	License: 0A06P	Serial No.: 1FTRF12257N43531	Location: 1	Color: OXFORD WHITE
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Department: INDUSTRIAL PRETREATMENT

**Meter Reading**

Meter Type:	Description:	Reading:
M	MILFAC NFTR	73509

**Open Work Orders** (VIEW CLOSED WORKORDERS)

Work Order No.:	Date In:	Total Cost:	Status:

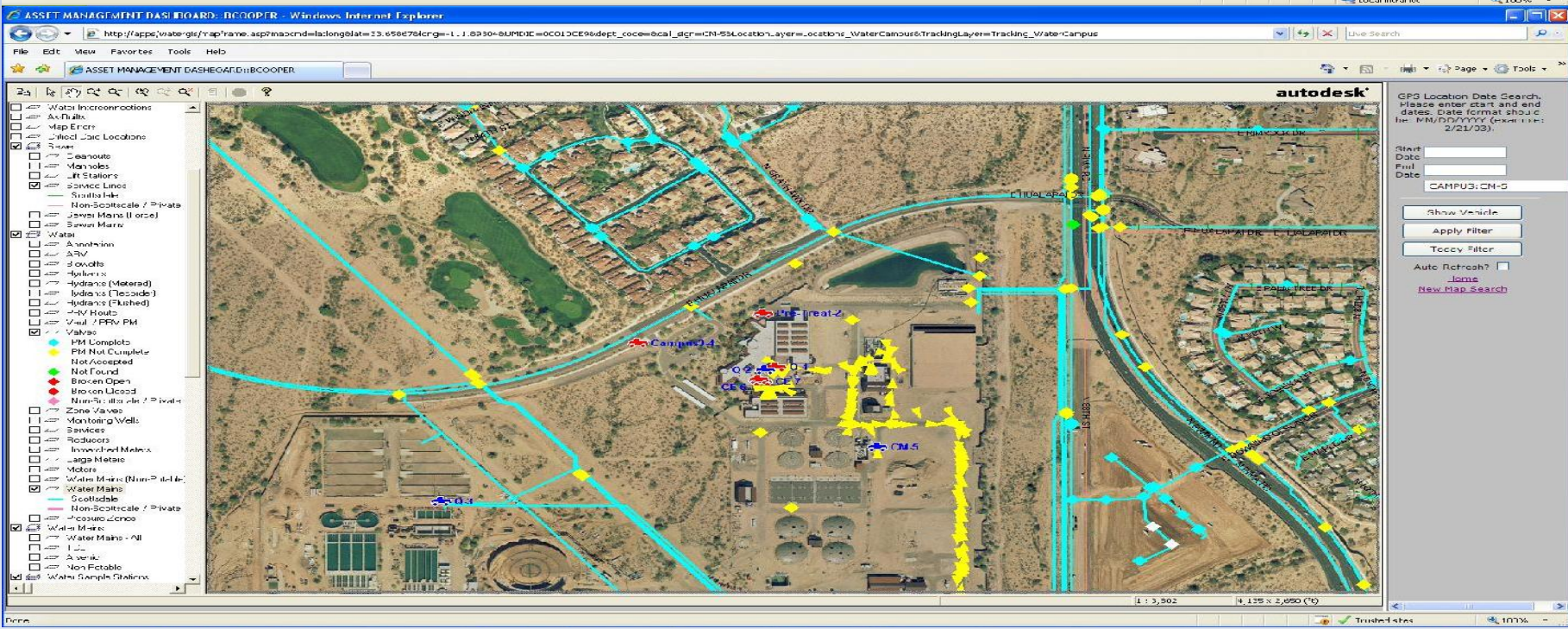
**Last Preventive Maintenance Performed**

Type:	Description:	Date Done:
A	PMA	10/11/2010
W	PMW WARRANTY PRE EXPIRATION	10/11/2010

**Preventive Maintenance**

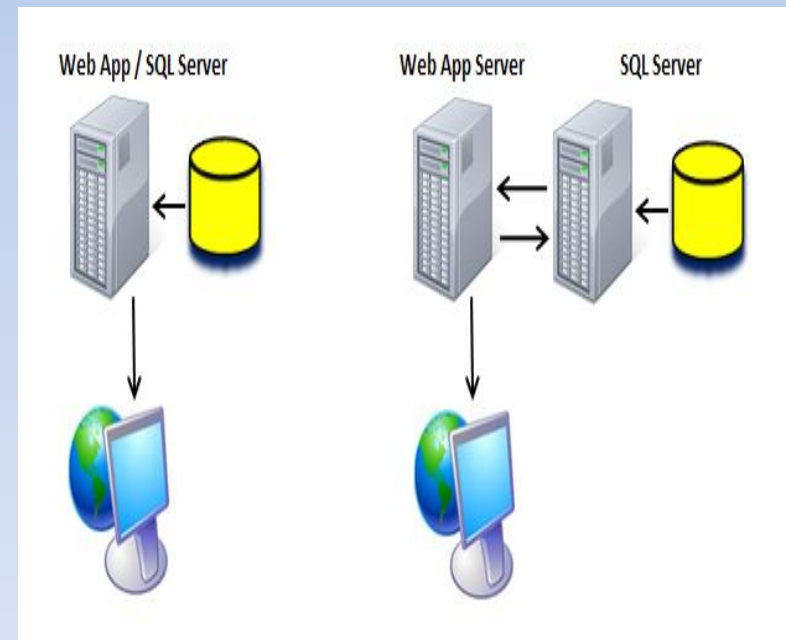
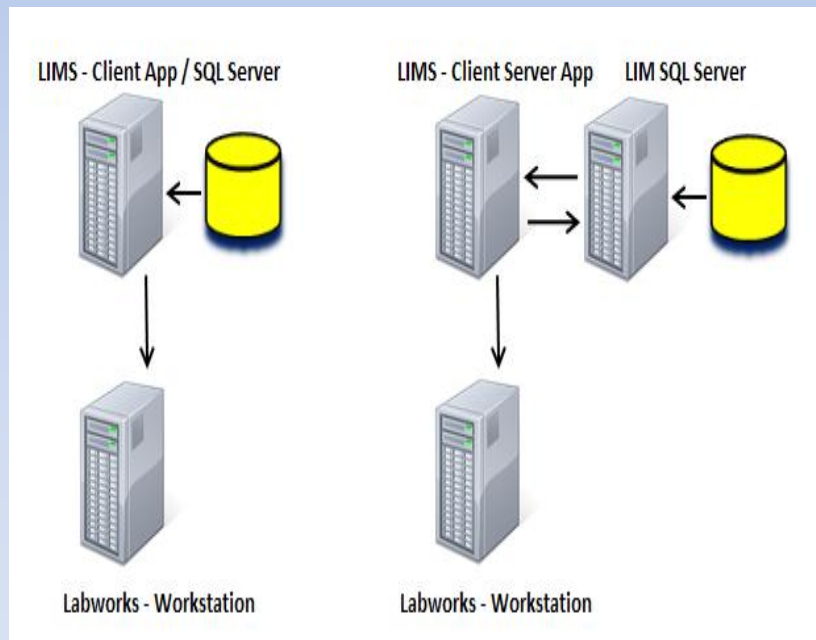
Type:	Description:	Cycle:	Cycle Length:	Previous Due:	Next Due:	Shop:
A	PMA	DAYS	180	10/11/2010	04/09/2011	NORTH CORP
E	EMISSIONS	DAYS	365	02/01/2007	02/01/2012	NORTH CORP
A	PMA	FUEL CONSUMPTION PER 900 TYPE 1	550	1770	2320	NORTH CORP

Local Infrared: 100%

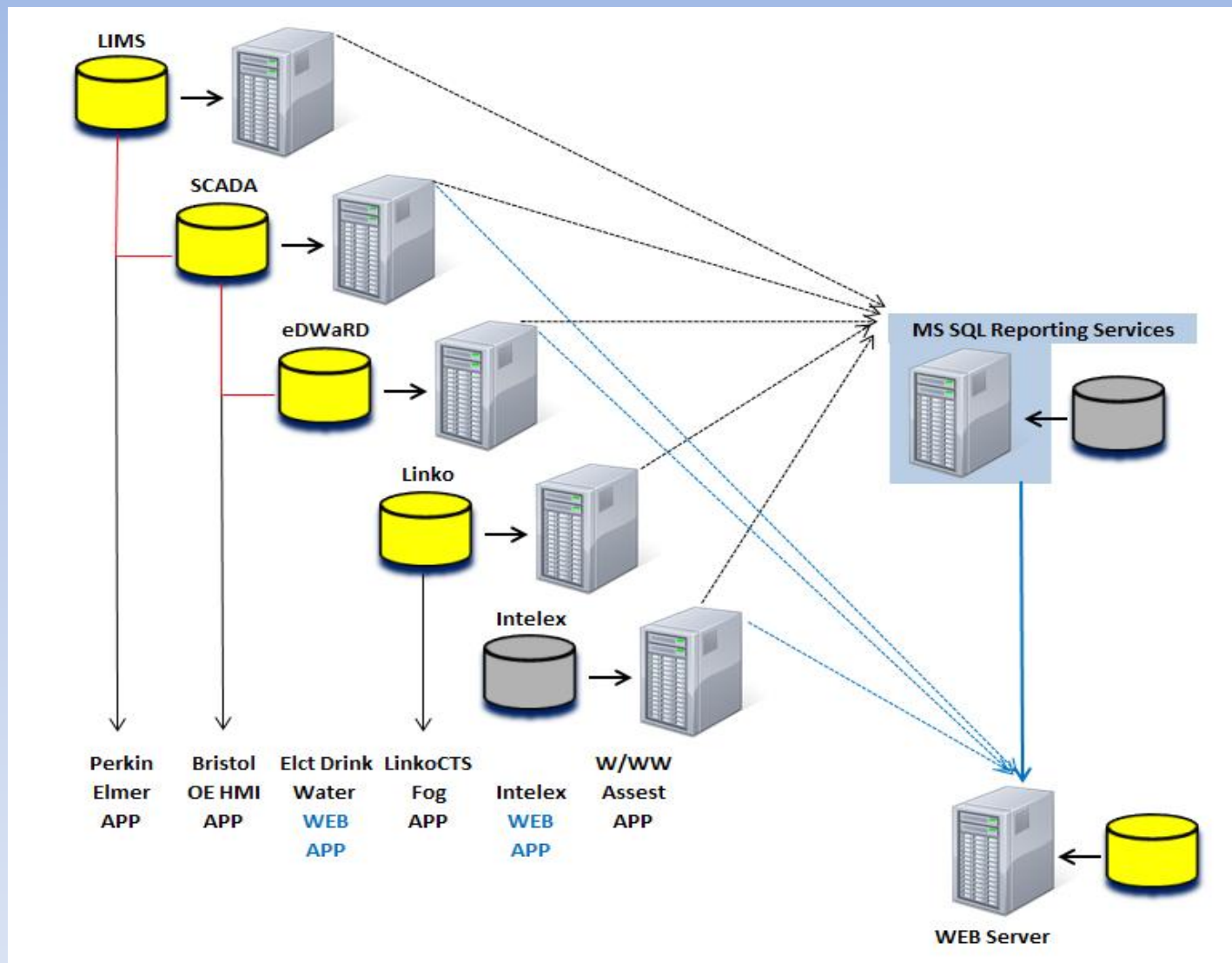


# IAS (Information Access System) - Water Quality Monitoring

- How should we set it up?
- How many servers will it take?
- Where will the software be installed, and on how many computers?
- Will there be software to install?
- Who will get access to the software and reports? Data Sharing.



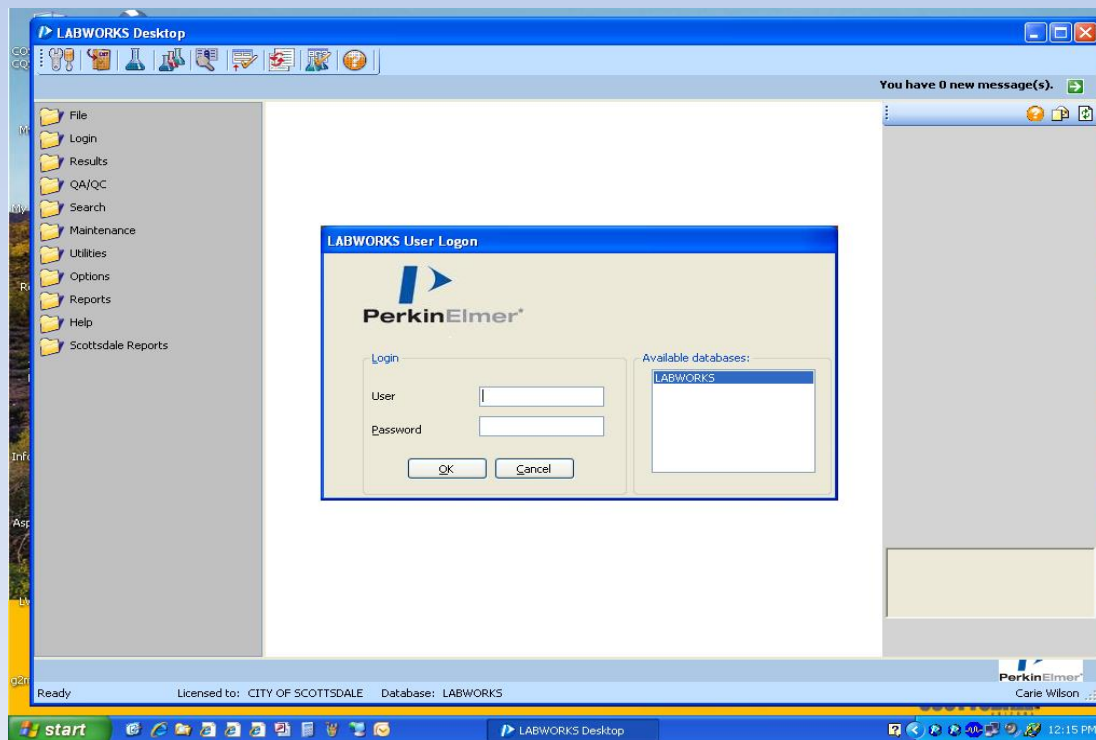
# IAS (Information Access System) - Water Quality Monitoring



# Water Quality Monitoring – Perkin Elmer Labworks - LIMS Application

## LIMS (Laboratory Information Management System)

- The LIMS is a tool used by Water Quality staff to track data associated with samples submitted to the City of Scottsdale Water Quality Laboratory.
- Samples are logged in, assigned a unique laboratory identification number, labeled, and then placed in queue for laboratory analysis.
- Upon completion of analysis, results are entered by the analyst, then peer reviewed and validated. Results can be downloaded directly from lab instrumentation to reduce transcription and other human errors. Quality control data associated with analyses can also be stored.
- Upon completion of all lab analyses, the samples are reviewed by the LIMS administrator.
- The LIMS can produce certificates of analysis for reporting to regulatory agencies or the data can be exported to a variety of formats.
- All laboratory data is stored in the LIMS database for future use or direct use in other applications such as IAS, LINKO or EDWaRD.



# Water Quality - LIMS Web Based MS SQL Services Reports

Well Site Sample Results - Report Manager - Windows Internet Explorer

http://randd/Reports/Pages/Report.aspx?Path=Water+Quality+Results%2FWater+Quality+Results

File Edit View Favorites Tools Help

Well Site Sample Results - Report Manager

Home > Water Resources > Water Quality > LIMS > Well Site Sample Results

Start Date: 10/1/2010 End Date: 11/2/2010 View Report

Sample Location: DMW1, DMW2, DMW3, DMW4 Analyte: 1,1,1-Trichloroethane, 1,1-Dichloroethane

Well Site Sample Results

Collected	Collect By	Sample ID	Sample	Test Name	Reported Result
11:35:00 AM	HOLDEN	AB18702	WELL-53	Arsenic, As	0.073
10:20:00 AM	HYERS	AB18679	DMW3	Barium, Ba	0.17
10:20:00 AM	HYERS	AB18679	DMW3	Calcium, Ca	365
10:20:00 AM	HYERS	AB18679	DMW3	Iron, Fe	0.114
10:20:00 AM	HYERS	AB18679	DMW3	Magnesium, Mg	14.1
10:20:00 AM	HYERS	AB18679	DMW3	Molybdenum, Mo	Not detected
10:20:00 AM	HYERS	AB18679	DMW3	Potassium, K	2
10:20:00 AM	HYERS	AB18679	DMW3	Silica, As SiO2	392

Report Viewer - Windows Internet Explorer

http://randd/Reports/Pages/Report.aspx?Path=Water+Quality+Results%2FWater+Quality+Results

File Edit View Favorites Tools Help

Report Manager

Water Resources Reporting Services

Home > Water Quality > EDWERO > CCR Water Data

Search for: Go

View Properties History Subscriptions

New Subscription

Sampling Year: 2008 View Report

CCR Water Data System Wide

2008 INORGANICS

SAMPLING YEAR	SUBSTANCE	UNIT	MCL	MIN RESULT	MAX RESULT	AVG
2008	Arsenic	mg/L	0.05	0	0	0.073
2008	Barium	mg/L	2	0	0.167	0.17
2008	Cadmium	mg/L	0.001	0	0	0
2008	Chromium	mg/L	0.1	0	0.036	0.036
2008	Cyanide	mg/L	0.2	0	0	0
2008	Fluoride	mg/L	4	0	1	1
2008	Mercury	mg/L	0.002	0	0	0
2008	Nickel	mg/L	0.009	0	0	0
2008	Nitrate-N	mg/L	10	0	5.4	5.4
2008	Selenium	mg/L	0.05	0	0	0
2008	Sodium	mg/L	0.009	0	0.96	0.96
2008	Thallium	mg/L	0.002	0	0	0

2008 ORGANICS

SAMPLING YEAR	SUBSTANCE	UNIT	MCL	MIN RESULT	MAX RESULT	AVG
2008	1,1,1-Trichloroethane	mg/L	0.2	0	0	0
2008	1,1,2-Trichloroethane	mg/L	0.005	0	0	0
2008	1,2-Dichloroethylene	mg/L	0.007	0	0	0
2008	1,2,4-Trichlorobenzene	mg/L	0.07	0	0	0
2008	1,2-Dibromo-3-chloropropane	mg/L	0.0002	0	0	0
2008	1,2-Dibromoethane	mg/L	0.005	0	0	0
2008	1,2-Dichlorobenzene	mg/L	0.6	0	0	0
2008	1,2,4-Trichlorobenzene	mg/L	0.005	0	0	0
2008	1,2,4-Trichloropropane	mg/L	0.005	0	0	0
2008	1,4-Dichlorobenzene	mg/L	0.075	0	0	0
2008	1,4-Dichloroethane	mg/L	0.05	0	0	0

Point Of Entry - EPDS 001 Results

Collected	Collect By	Sample ID	Sample	Test Name	Reported Result
12/10 12:30:00 PM	GETTENS	AB18922	EPDS-001	Chloride, Cl	85
12/10 12:30:00 PM	GETTENS	AB18922	EPDS-001	Fluoride, F	<0.3
12/10 12:30:00 PM	GETTENS	AB18922	EPDS-001	Nitrate, NO3	0.3
12/10 12:30:00 PM	GETTENS	AB18922	EPDS-001	Nitrite, NO2	Not Detected
12/10 12:30:00 PM	GETTENS	AB18922	EPDS-001	Sulfate, SO4	206
12/10 12:30:00 PM	GETTENS	AB18922	EPDS-001	Chlorine Residual, Free	0.77
12/10 12:30:00 PM	GETTENS	AB18922	EPDS-001	Conductivity, Field	1036
12/10 12:30:00 PM	GETTENS	AB18922	EPDS-001	pH, Field	7.68
12/10 12:30:00 PM	GETTENS	AB18922	EPDS-001	Water Temperature, Field	26.1
12/10 12:30:00 PM	GETTENS	AB18922	EPDS-001	Hardness, Field	0.411
12/10 12:30:00 PM	GETTENS	AB18922	EPDS-001	Nitrate, NO3	0.3
12/10 11:45:00 AM	HOLDEN	AB18900	EPDS-001	Alkalinity, Total	120

# Water Quality Monitoring – RedOak eDWaRD - Web Applications

## eDWaRD (Electronic Drinking Water Regulatory Database)

- EDWaRD is a tool used by Regulatory staff within Water Quality for tracking compliance monitoring associated with the Safe Drinking Water Act. Email alert function for compliance problems.
- EDWaRD has internal algorithms for each drinking water rule (Lead & Copper, Radiochems, Stage 1 DBPs, etc.) that prompts users for collection of compliance samples; then once collected, evaluates the data against the rule requirements (compliance with maximum contaminant level, frequency, etc.).
- Data is automatically extracted from LIMS and SCADA, imported into EDWaRD and evaluated against the various algorithms.
- The user can generate several more advanced compliance reporting forms within EDWaRD such as monthly turbidity reports for water treatment plants, quarterly reports for DBPs containing running annual averages, as well as summary reports for EPDS sampling. EDWaRD also contains several custom reports for tracking regulatory data.

**Regulatory Compliance Tracking System**

User:   
Password:   
Domain: scottoccl01

**eDWaRD - Compliance Summary: Nov 2010**

Regulation	Tracking Frequency	Sampling MCL/A	Sampling Result	Monitoring Compliance	MCL/TF Compliance	Reporting Compliance
ER@POE	11/30/2010	NA	NA	NA	NA	OK
Lead	9/30/2010	9.150/0	0	OK	OK	OK
MCLLA	11/30/2010	154/150.0	0	OK	OK	OK
Other	11/30/2010	0/0/0	0	OK	OK	OK
SVI/K/SVI-K	11/30/2010	NA	NA	NA	NA	OK
TC	11/30/2010	154/150.0	0	OK	OK	OK
TOC	11/30/2010	2/2/0	0	OK	OK	OK
Asbestos	Quarterly	0/0/0	0	X	OK	OK
CRDBP	Quarterly	20/20/20	0	OK	OK	OK
BOCs	Quarterly	1/1/0	0	OK	OK	OK
Nitrate (NO3-)	Quarterly	1/1/0	0	X	OK	OK
Nitrite (NO2-)	Quarterly	0/0/0	0	X	OK	OK
Radon	Quarterly	0/0/0	0	OK	OK	OK
Radio-f	Quarterly	0/0/0	0	OK	OK	OK
SDCA	Quarterly	0/0/0	0	X	OK	OK
VOCs	Quarterly	0/0/0	0	X	OK	OK

Legend:  
R - Samples Requested  
U - Samples Required for Compliance  
A - Actual Samples Taken

# Water Quality Monitoring – Intellex Environmental Web Applications

## Intellex (Environmental program used to identify and notify requirements for various permits)

- Intellex is used to briefly describe the Air, Aquifer Protection Program, Reuse and Underground Storage Facility Permits and their fee's, renewals and reporting requirements.
- An email function allows the user to set-up a notification schedule so no reporting or fee timelines are missed.
- The Intellex program also has a feature allowing you to upload documents for electronic record retention.
- The program can show upcoming tasks and who is responsible for completing each task. It can also identify overdue tasks or provide a search for an individual task.
- Notifications can be sent out to various responsible individuals on the timelines you choose, an example would be the responsible person would be notified 60 days prior, at 30 days their manager would be notified and at 15 days the director would receive an email.

**INTELEX**

Main | Tasks | Reporting | Recent | More Tools...

Home My Tasks Dashboard Site Map Reporting My Email Message Center

Location: Water Resources  
Module: My Tasks Summary

**My Tasks Summary: My Tasks for Craig R Miller**

My Tasks My Staff's Tasks My Training My Documents My Email

Find List All Overdue Calendar View

Location	Task Type	Description	Due Date
Water Resources	Permit Renewal	Maricopa County Facility Annual Fee--Water Campus This is an annual fee for the facility.	Wednesday, November 17, 2010
Water Resources	Permit Renewal	Air Quality 5 Year Permit Renewal--Sewer Lift Sta. #11A This is the 5 Year Permit, also is the annual renewal permit requirement and fee site 11A	Tuesday, November 30, 2010
W/WW Ops	Permit Renewal	Air Quality Non-Title V Permit--Himovitz	Tuesday, November 30, 2010
Water Resources	Permit Renewal	Air Quality Annual Permit Fee--Well Site #60 This is an annual permit renewal and fee for site 60 - See also the 5 year permit application and fee.	Monday, December 20, 2010
Water Resources	Permit Renewal	Air Quality Annual Permit Fee--Well Site #120 This is an annual permit application and fee - See also the 5 year permit application and fee.	Monday, December 20, 2010
Water Resources	Permit Renewal	Air Quality Annual Permit Fee--Well Site #124 This is an annual permit renewal and fee Site 124 - See also the 5 year permit application and fee.	Monday, December 20, 2010
Water Resources	Permit Renewal	Air Quality Annual Permit Fee--Well Site #114 A & B This is an annual permit renewal and fee for well site 114 A & B See also the 5 year permit application and fee.	Monday, December 20, 2010
Water Resources	Permit Renewal	Air Quality Annual Permit Fee--Well Site #103 This is an annual permit renewal and fee Site 103 - See also the 5 year permit application and fee.	Monday, December 20, 2010
W/WW Ops	Permit Renewal	Air Quality Annual Permit Fee--Well Site #102 This is an annual permit renewal and fee Site 102- See also the 5 year permit application and fee.	Monday, December 20, 2010
W/WW Ops	Permit Renewal	Air Quality Annual Permit Fee--Well Site #101 This is an annual permit renewal and fee site 101- See also the 5 year permit application and fee.	Monday, December 20, 2010
W/WW Ops	Permit Renewal	Air Quality Annual Permit Fee--Well Site #99 This is an annual permit renewal and fee Site 94 See also the 5 year permit application and fee.	Monday, December 20, 2010
W/WW Ops	Permit Renewal	Air Quality Annual Permit Fee--Well Site #94 This is an annual renewal for the permit Site 90 - see also the 5 year application and fee.	Monday, December 20, 2010
W/WW Ops	Permit Renewal	Air Quality Annual Permit Fee--Well Site #83 A & B This is the annual renewal permit and fee Site 83- see also the 5 year permit application and fee.	Monday, December 20, 2010
W/WW Ops	Permit Renewal	Air Quality Annual Permit Fee--Well Site #79 This is an annual renewal permit and fee Site 79- see also the 5 year permit application and fee.	Monday, December 20, 2010
W/WW Ops	Permit Renewal	Air Quality Annual Permit Fee--Well Site #67 This is an annual permit renewal and fee site 57- see also the 5 year permit application and fee.	Monday, December 20, 2010
W/WW Ops	Permit Renewal	Air Quality Annual Permit Fee--Well Site #48 This is an annual permit renewal and fee Site 146- See also the 5 year permit application and fee.	Monday, December 20, 2010
W/WW Ops	Permit Renewal	Air Quality Annual Permit Fee--Sewer Lift Sta. #22 This is an annual permit renewal and fee SL 22- See also the 5 year permit application and fee.	Monday, December 20, 2010
W/WW Ops	Permit Renewal	Air Quality Annual Permit Fee--Sewer Lift Sta. #21 This is an annual permit renewal and fee SL 21- See also the 5 year permit application and fee.	Monday, December 20, 2010

# Water Quality Monitoring – LinkoCTS Application

## LinkoCTS™ (Industrial Pretreatment and Fats Oils & Grease Compliance Tracking Software)

- LinkoCTS manages activities and evaluates industrial pretreatment and Fats Oils & Grease (FOG) compliance in accordance with the General Pretreatment Regulations in 40 CFR – 403.
- **Permit Management** – Maintain List of Permitted Industries and FOG Food Service Establishments (FSEs) Inventories and Required Information.
- **Sample and Result Administration** - Schedule, track and evaluate sample analysis compliance.
- **Violations & Enforcement** - Detect Violations, issue NOV's and manage compliance requirements.
- **40 CFR 403 Compliance** – Manages pretreatment data and evaluates 40 CFR 403 compliance requirements.
- **Industrial and FSE Inspection** – Documents field inspection activities.
- **Advanced Scheduling** - Schedules authority and IU requirements/events and provides reminders.
- **Customized Reporting, Filtering and Search Tools** results are entered by the analyst, then peer reviewed and validated. Results can be downloaded directly from lab instrumentation to reduce transcription and other human errors. Quality control data associated with analyses can also be stored.
- **LINKO PIPE** – Creates an electronic transfer of data from Labworks LIMS and provides automatic filtering of data for identification of violations.

