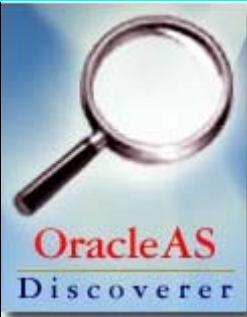




# Discoverer Web for AQS

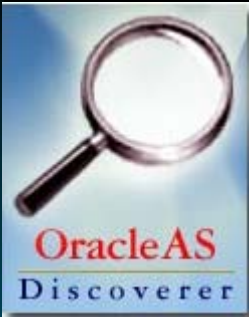
Bonnie Johnson



## Goals for this class

- Introduce the Discoverer tool
- Learn how to connect to aqsprod with Discoverer Plus
- Learn how to create, save, open and delete workbooks
- Identify main features of a workbook, such as worksheets, items, and page items
- Learn where to go for help with additional features





## What is Discoverer?

- A **business intelligence** tool for ad hoc queries, reporting, analysis, and Web publishing from Oracle Corporation
- A **retrieval only** tool that works on a relational database whether it's designed for online transaction processing (OLAP) or as a data warehouse

## Why does Oracle think you'll want to use Discoverer?

Discoverer's powerful and intuitive user interface enables you to:

- find data that you know is in the database
- access data quickly without waiting for the computer to search through the entire database
- view data in a familiar spreadsheet-style format that is easy to read and understand
- analyze data using a variety of powerful techniques including:
  - drilling up and down through data
  - finding data that meets certain conditions or that falls within ranges that you specify
  - sorting data
  - comparing results from "what if" scenarios
- prepare reports showing the results of your analysis
- share data with others, and in other applications (e.g. Microsoft Excel)

Why do *we* think you'll want to use Discoverer?

**It's the ad hoc query tool for AQS!**

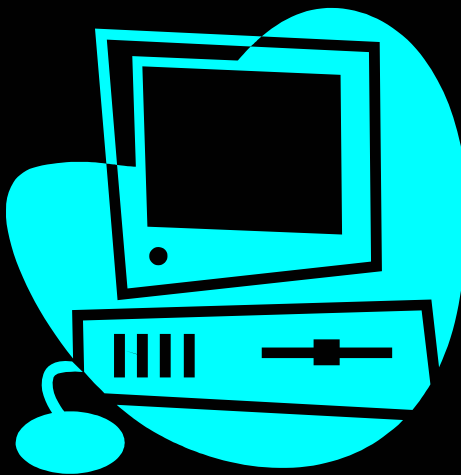
How many  $PM_{2.5}$  monitors do we have?  
Are any of them inactive but not closed?  
Are other agencies in the same boat?



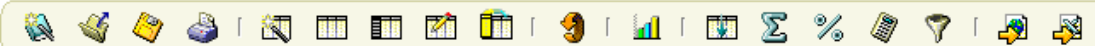
**Boss**  
(in Wyoming state)

I'll get that  
information for you  
right away!





|    | Screening Group Num | Screening Group Name | Monitor ID          | Status Indicator | ▸ Last Sampling Date | ▸ Last Post Date | Created User | ▸ Created Date |
|----|---------------------|----------------------|---------------------|------------------|----------------------|------------------|--------------|----------------|
| 1  | 99                  | WYOMING              | 56-005-0877-88101-1 | P                | 29-JUN-2004          | 26-JUL-2004      | QRQ          | 07-OCT-2002    |
| 2  | 99                  | WYOMING              | 56-005-0886-88101-1 | P                | -                    | -                | QRQ          | 28-AUG-2002    |
| 3  | 99                  | WYOMING              | 56-005-0891-88101-1 | P                | -                    | 07-NOV-2002      | QRQ          | 01-OCT-2002    |
| 4  | 99                  | WYOMING              | 56-005-0892-88101-1 | P                | 29-JUN-2004          | 26-JUL-2004      | QRQ          | 25-SEP-2002    |
| 5  | 99                  | WYOMING              | 56-005-0899-88101-1 | P                | 29-JUN-2004          | 26-JUL-2004      | QRQ          | 25-SEP-2002    |
| 6  | 99                  | WYOMING              | 56-009-0819-88101-1 | P                | 29-JUN-2004          | 26-JUL-2004      | QRQ          | 01-OCT-2002    |
| 7  | 99                  | WYOMING              | 56-013-1003-88101-1 | P                | 30-DEC-2001          | 11-APR-2002      | QRQ          | 13-FEB-2002    |
| 8  | 99                  | WYOMING              | 56-013-1003-88101-2 | P                | 17-SEP-2004          | 26-JUL-2004      | QRQ          | 06-MAY-2002    |
| 9  | 99                  | WYOMING              | 56-013-1004-88101-1 | P                | 12-NOV-2001          | 13-FEB-2002      | AIRSRAQS     | 25-DEC-2001    |
| 10 | 99                  | WYOMING              | 56-021-0001-88101-1 | P                | 02-SEP-2004          | 26-JUL-2004      | AIRSRAQS     | 25-DEC-2001    |
| 11 | 99                  | WYOMING              | 56-033-0001-88101-1 | P                | 06-AUG-2004          | 26-JUL-2004      | AIRSRAQS     | 25-DEC-2001    |
| 12 | 99                  | WYOMING              | 56-033-0002-88101-1 | P                | 07-AUG-2004          | 26-JUL-2004      | AIRSRAQS     | 25-DEC-2001    |
| 13 | 99                  | WYOMING              | 56-039-0006-88101-1 | P                | 17-SEP-2004          | 26-JUL-2004      | AIRSRAQS     | 25-DEC-2001    |



Inactive Monitors by Screening Group for State Code(s) : '06, 01, 02, 04, 05, 08, 09, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56'

(Not reporting data but no Sampling End Date)

as of 27-OCT-04

Page Items: **Pollutant: 88101 PM2.5 - LOCAL CONDITIONS**

| Screening Group Name | Monitor ID          | Date Sampling Began | Last Sampling Date | # Days since last recorded data |
|----------------------|---------------------|---------------------|--------------------|---------------------------------|
| ALLEGHENY CO, PA     | 42-003-0008-88101-5 | 24-MAY-2000         | 31-DEC-2002        | 666                             |
|                      | 42-003-0064-88101-5 | 19-NOV-1999         | 31-DEC-2002        | 666                             |
|                      | Count Distinct: 2   |                     |                    |                                 |
| BAY AREA AQMD, CA    | 06-053-1003-88101-2 | 01-JAN-2000         | 12-AUG-2003        | 442                             |
|                      | Count Distinct: 1   |                     |                    |                                 |
| CHATTANOOGA, TN      | 47-065-0032-88101-1 | 05-JUN-1999         | 02-JAN-2002        | 1029                            |
|                      | Count Distinct: 1   |                     |                    |                                 |
| CLARK CO, NV         | 32-003-0022-88101-1 | 01-JAN-1999         | 29-SEP-2002        | 759                             |
|                      | 32-003-1019-88101-1 | 01-JAN-1999         | 14-OCT-2002        | 744                             |
|                      | Count Distinct: 2   |                     |                    |                                 |
| COLORADO             | 08-031-0013-88101-1 | 15-NOV-1999         | 28-MAR-2001        | 1309                            |
|                      | 08-077-0003-88101-1 | 06-JAN-1999         | 11-DEC-2003        | 321                             |
|                      | 08-077-0003-88101-2 | 06-JAN-1999         | 11-DEC-2003        | 321                             |
|                      | Count Distinct: 3   |                     |                    |                                 |
| CONN2                | 09-009-9005-88101-1 | 01-JAN-1999         | 29-DEC-2003        | 303                             |





Inactive Monitors by Screening Group for State Code(s) : '06, 01, 02, 04, 05, 08, 09, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56'

(Not reporting data but no Sampling End Date)

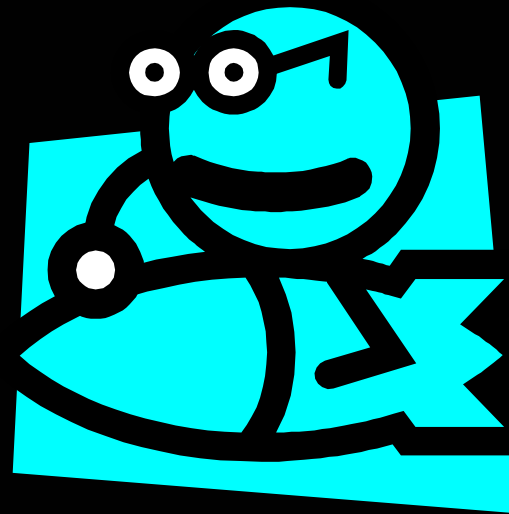
as of 27-OCT-04

Page Items: Pollutant: 88101 PM2.5 - LOCAL CONDITIONS

| Screening Group Name | Monitor ID          | Date Sampling Began | Last Sampling Date | # Days since last recorded data |
|----------------------|---------------------|---------------------|--------------------|---------------------------------|
| SCAQMD, CA PM2.5     | 06-071-2002-88101-2 | 01-JAN-1999         | 01-OCT-2003        | 392                             |
|                      | Count Distinct: 1   |                     |                    |                                 |
| SOUTH DAKOTA         | 46-103-0016-88101-3 | 01-APR-2001         | 31-DEC-2003        | 301                             |
|                      | 46-103-0017-88101-1 | 01-JAN-1999         | 31-DEC-2002        | 666                             |
|                      | Count Distinct: 2   |                     |                    |                                 |
| UTAH                 | 49-049-4001-88101-2 | 22-MAR-2003         | 29-NOV-2003        | 333                             |
|                      | 49-057-0007-88101-2 | 08-JUL-2003         | 06-OCT-2003        | 387                             |
|                      | Count Distinct: 2   |                     |                    |                                 |
| WYOMING              | 56-013-1003-88101-1 | 15-NOV-2001         | 30-DEC-2001        | 1032                            |
|                      | Count Distinct: 1   |                     |                    |                                 |
| Count Distinct: 30   | Count Distinct: 80  |                     |                    |                                 |

Page 2 of 2

13, yes-1, yes-  
about 30 of them



# Who can use Discoverer?

## Registered AQS Users

Discoverer Plus:

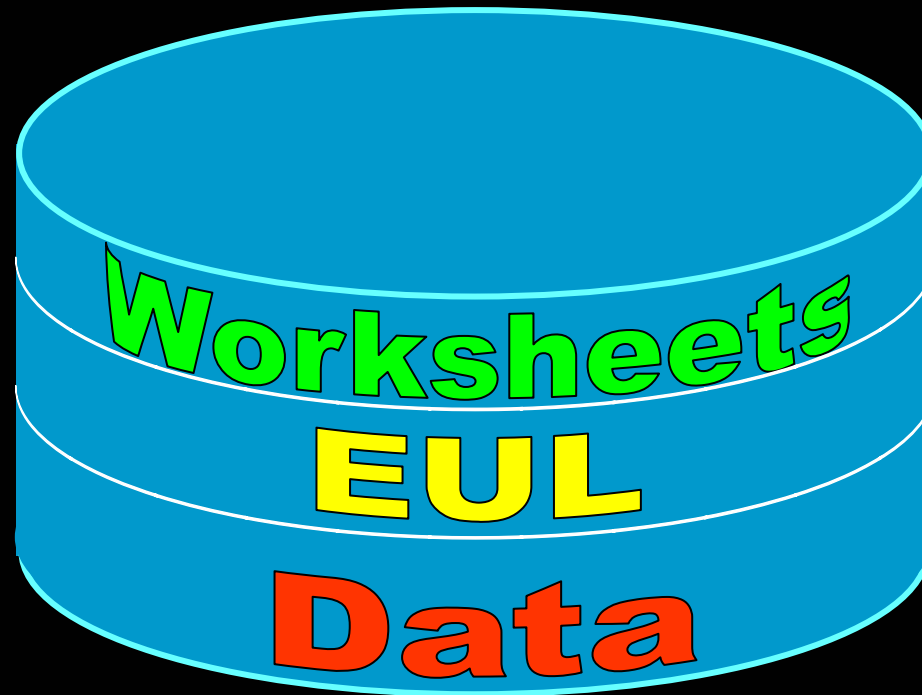
- Java-enabled Web browser
- Java Virtual Machine (JVM) such as Oracle JInitiator.

Discoverer Viewer:

- HTML through a Web browser
- JavaScript must be enabled in the browser.

How does this work?

D  
a  
t  
a  
b  
a  
s  
e



End User Layer

# Key Terminology

Interface to database = End User Layer  
Grouping of Tables = Business Area  
Group of worksheets = Workbook

---

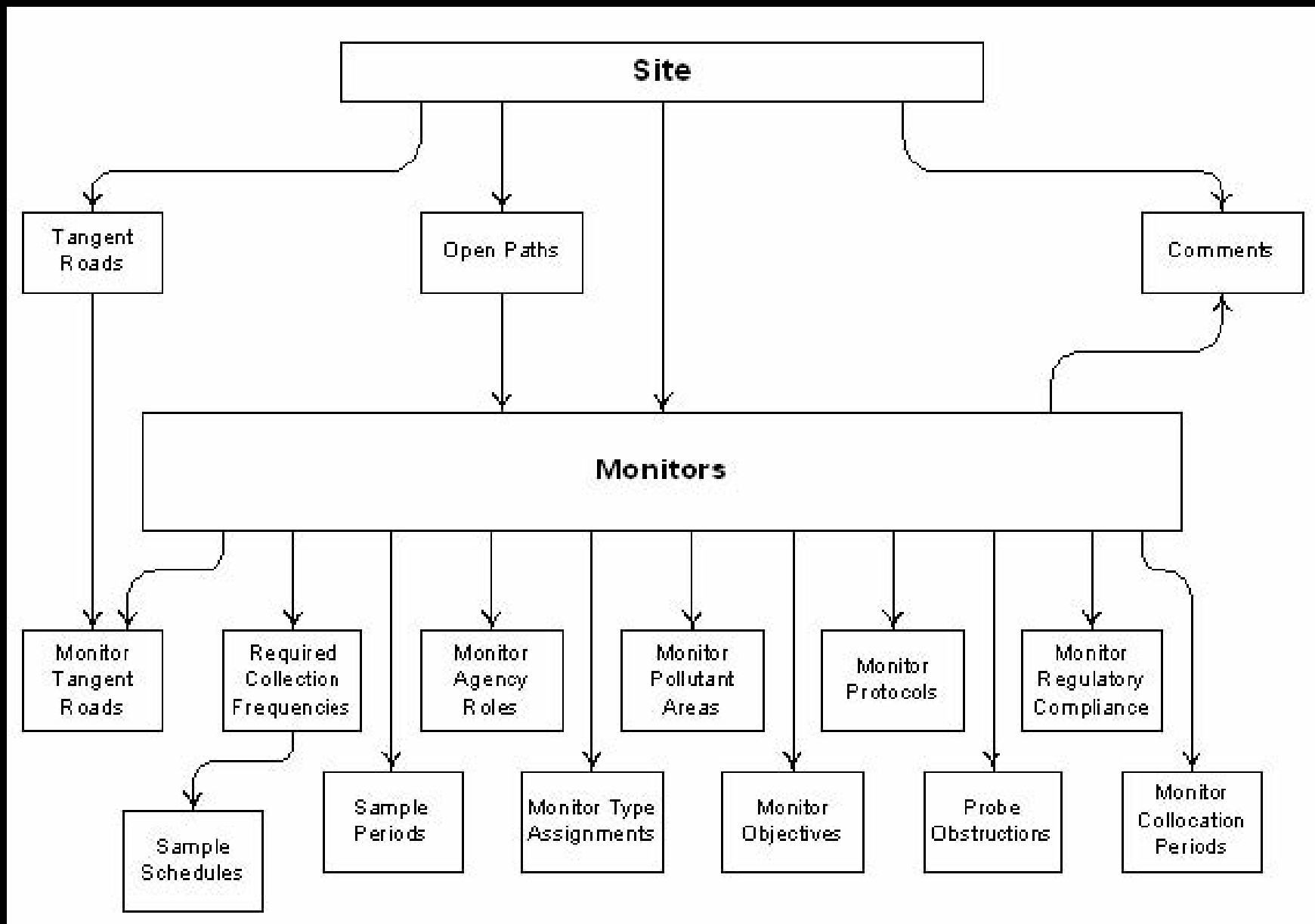
|         |   |            |
|---------|---|------------|
| Tables  | ➡ | Folders    |
| Columns | ➡ | Items      |
| Rows    | ➡ | Records    |
| Queries | ➡ | Worksheets |

Your Business Area

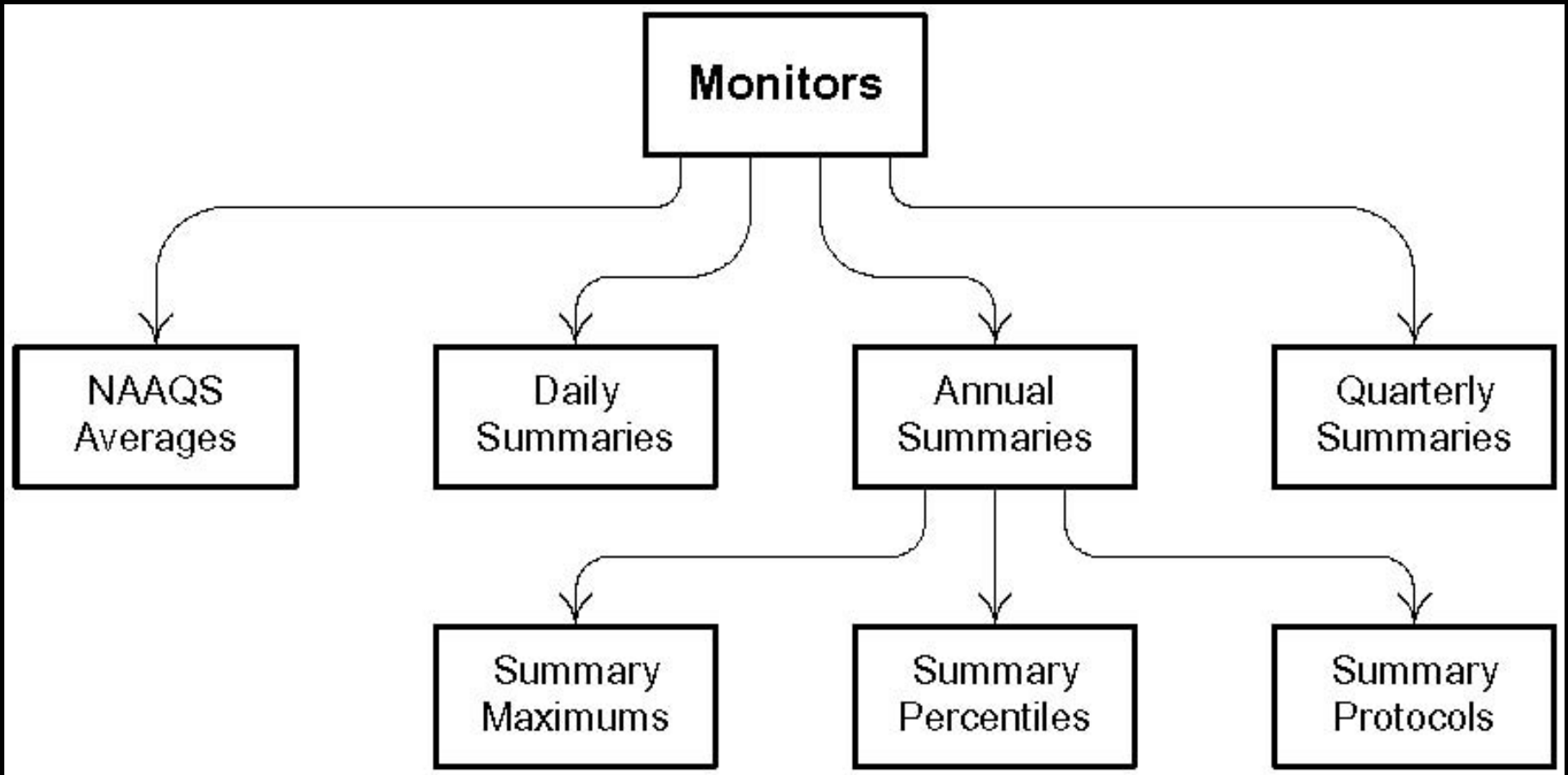
## AQS Basic

- Folders are composed primarily of views (i.e., combinations of tables) in the aqsprod database as described in the Data Dictionary
- Reference tables (e.g., States, Parameters)

# Data Model for AQS

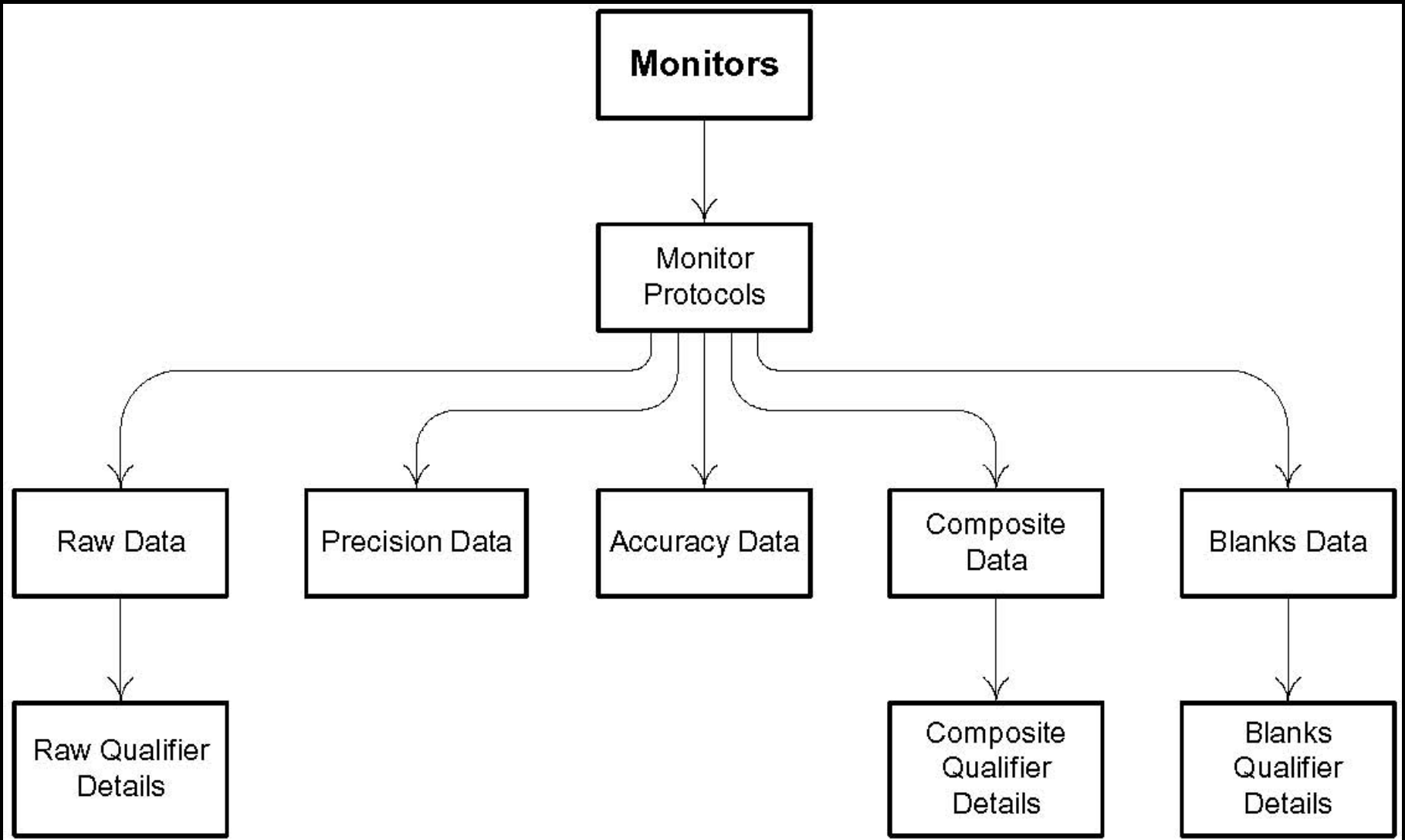


# Data Model for AQS, cont'd

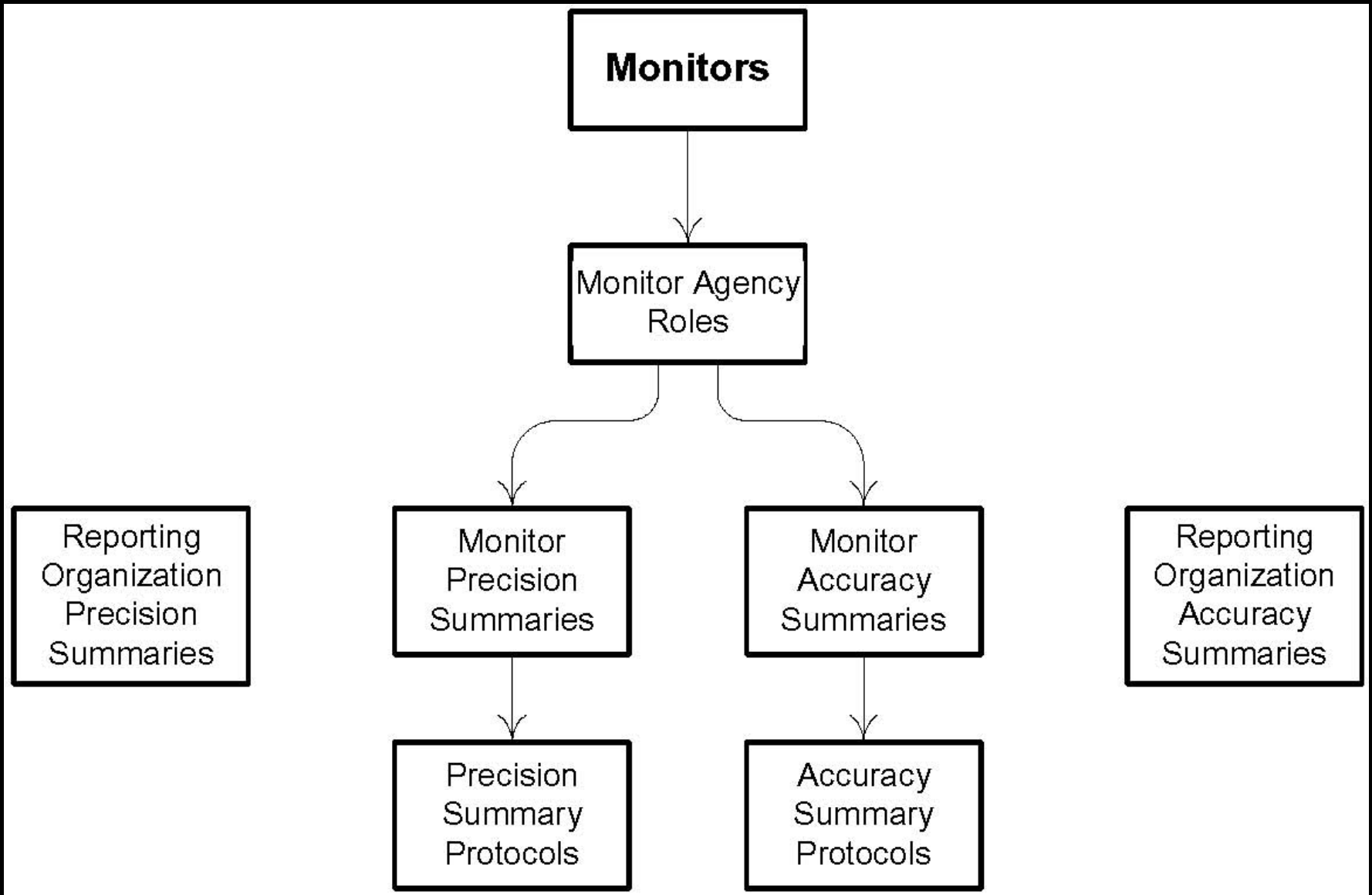




# Data Model for AQS, cont'd



# Data Model for AQS, cont'd



# Starting Discoverer Plus from

<http://www.epa.gov/ttn/airs/airsaqs/>

<http://www.epa.gov/ttn/airs/airsaqs/aqsweb/aqswebhome.htm>

**U.S. Environmental Protection Agency**


## Air Quality System

[Recent Additions](#) | [Contact Us](#) | Search:  **GO**


[EPA Home](#) > [TTN](#) > [AQS](#) > AQS Web Home

### AQS Web Home

Welcome to the Environmental Protection Agency (EPA) Air Quality System (AQS). AQS has been migrated and deployed on the Web to eliminate the installation and updates of the AQS software on users' machines and to eliminate the need for the SecuRemote software.

**First Time Users:** There is a one-time initial setup needed to access the AQS Web application. Click the following link for [AQS Initial Setup](#). You may also find this [AQS Web User Guide](#)  helpful.

The [Computer based training module for the AQS Web](#) is designed for new as well as experienced users. It allows users to work with the real system while going through the tutorials. (This module is similar to the one for the client/server version of AQS.)

Save the [Quick Ref Guide for AQS Web](#)  for use once you're familiar with the system.

[AQS Web Change Log](#): Description of modifications made to the AQS Web application

Use the following Links to Access AQS or CDX application directly. You can also access CDX while you are in AQS. **NOTE:** At this stage, access using each application directly will require you to login each time.

#### Launch Applications


[Proceed to AQS](#)

[Proceed to CDX](#)

If you need assistance accessing any of the material in AQS, User Support is provided through the EPA Call Center. The toll free number is **866-411-4EPA** (866-411-4372). Please contact them first with any questions about using the AQS application.

### AQS Web Discoverer

Access to the AQS database via Oracle Discoverer Plus for registered AQS users: <https://iasint.rtpnc.epa.gov/discoverer/plus>

[AQS Discoverer Web User Guide](#)  is available (1849KB).

[AQS TTN](#) | [Technology Transfer Network](#) | [Air & Radiation](#)

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

# Starting Discoverer Plus

<https://iasint.rtpnc.epa.gov/discoverer/plus>

The screenshot shows a Microsoft Internet Explorer browser window with the title "OracleAS Discoverer - Microsoft Internet Explorer". The address bar contains the URL "https://iasint.rtpnc.epa.gov/discoverer/plus". The page content includes the Oracle Application Server logo and the "Discoverer Plus" title. Below the title is a "Connect to Discoverer Plus" section with a "Create Connection" button. A table below the button shows "(No connections found.)" in the "Description" column. At the bottom of the page, there is a "Help" link and copyright information for Oracle.

Oracle Application Server  
Discoverer Plus

Help

Connect to Discoverer Plus

To connect to OracleAS Discoverer, click the corresponding Connection in the table below. If the connection you are looking for isn't in the list, click Create Connection.

Create Connection

| Details | Connection | Description             | Update | Delete |
|---------|------------|-------------------------|--------|--------|
|         |            | (No connections found.) |        |        |

Help

Copyright © 2000, 2003, Oracle. All rights reserved.  
[About Discoverer Plus Version 9.0.4.43.15](#)  
[Oracle Technology Network](#)

# Create a Connection

OracleAS Discoverer - Microsoft Internet Explorer

Address: [https://iasint.rtpnc.epa.gov/discoverer/plus?&\\_plus=true&\\_rvp=add\\_con](https://iasint.rtpnc.epa.gov/discoverer/plus?&_plus=true&_rvp=add_con)

## Oracle Application Server

### Discoverer Plus

[Help](#)

### Create Connection: Connection Details

Enter a connection name that is easy to remember. Add a description for this connection, followed by the database account details. [Cancel](#) [Apply](#)

#### Connection Name and Description

Connection Name

Connection Description

Locale

#### Database Account Details

User Name

Password

Database

[Cancel](#) [Apply](#)

[Help](#)

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About Discoverer Plus Version 9.0.4.43.15  
Oracle Technology Network

# Create a Connection, cont'd

OracleAS Discoverer - Microsoft Internet Explorer

Address: https://iasint.rtpnc.epa.gov/discoverer/plus

## Oracle Application Server Discoverer Plus

Help

### Create Connection: Connection Details

Enter a connection name that is easy to remember. Add a description for this connection, followed by the database account details. Cancel Apply

#### Connection Name and Description

Connection Name:

Connection Description:

Locale:

#### Database Account Details

User Name:

Password:

Database:

Cancel Apply

Help

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About Discoverer Plus Version 9.0.4.43.15  
Oracle Technology Network

# Connection Created

Oracle Application Server  
Discoverer Plus

Connect to Discoverer Plus

To connect to OracleAS Discoverer, click the corresponding Connection in the table below. If the connection you are looking for isn't in the list, click Create Connection.

Create Connection

| Details | Connection | Description              | Update | Delete |
|---------|------------|--------------------------|--------|--------|
| Show    | aqsprod    | EPA's Air Quality System |        |        |

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About Discoverer Plus Version 9.0.4.43.15  
Oracle Technology Network

Use this  
connection

Oracle Application Server  
Discoverer Plus

You are connecting to OracleAS Discoverer

Connection Name: aqsprod

Language: English (United States)

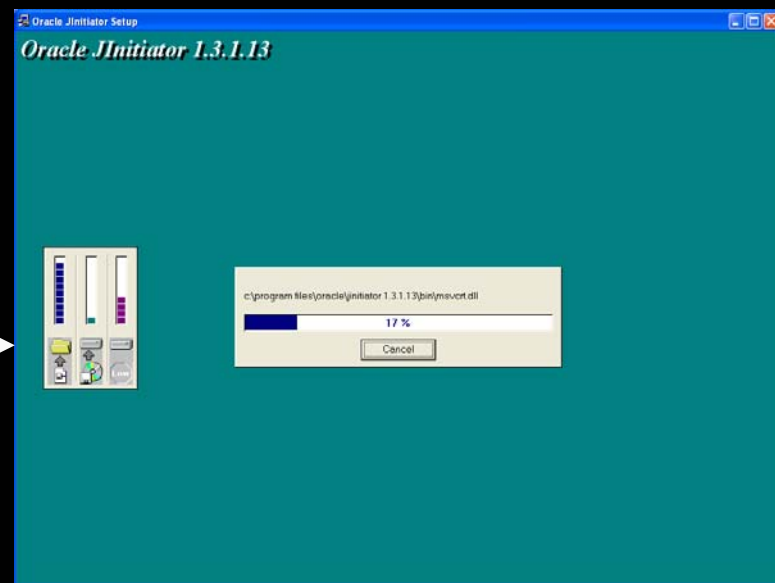
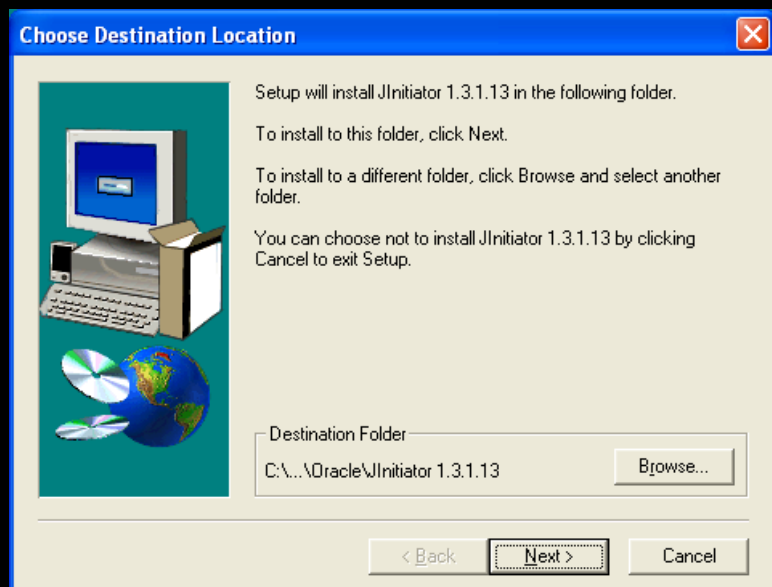
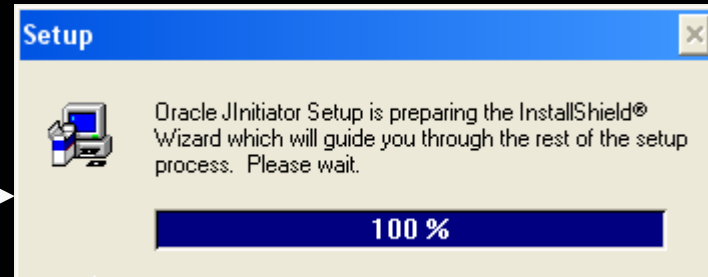
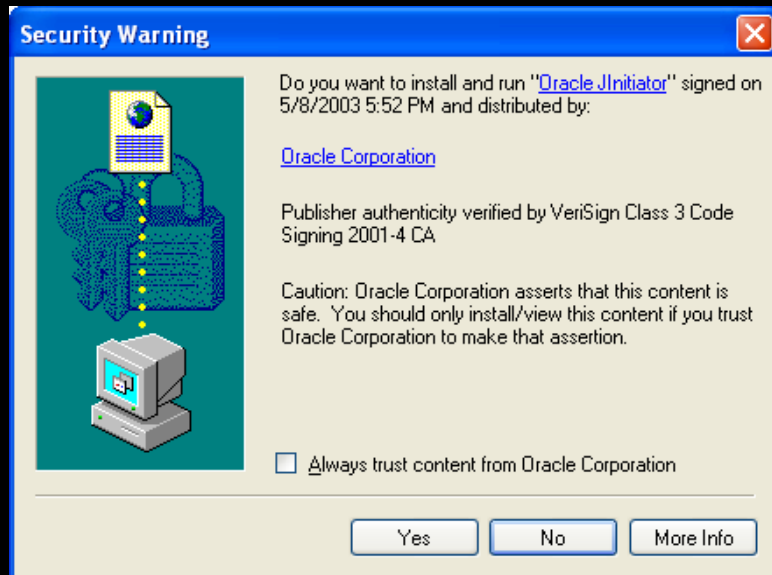
Password: [masked]

Connect

Help

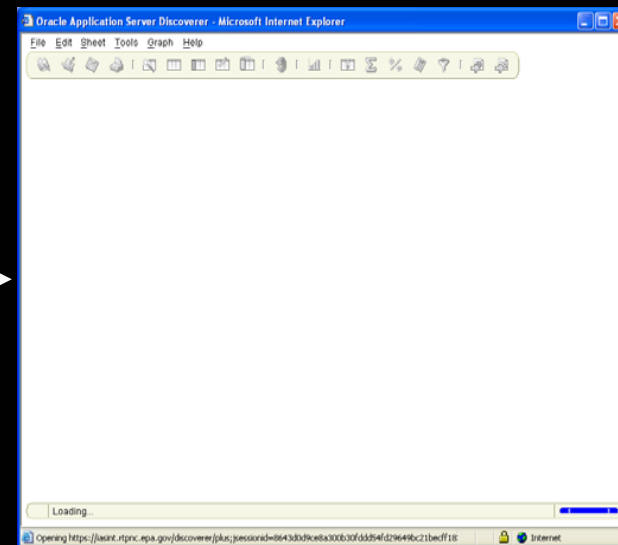
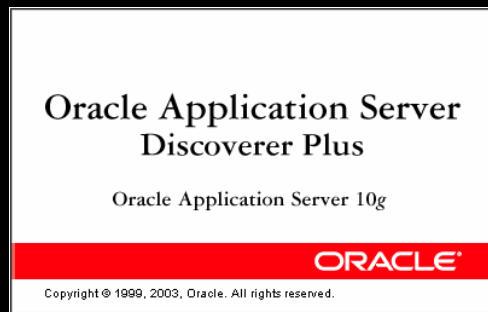
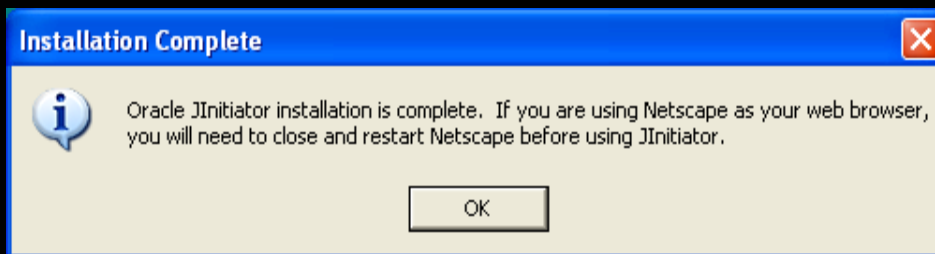
Copyright © 2000, 2003, Oracle. All rights reserved.  
About Discoverer Plus Version 9.0.4.43.15  
Oracle Technology Network

# Starting Discoverer for the 1<sup>st</sup> time on your PC

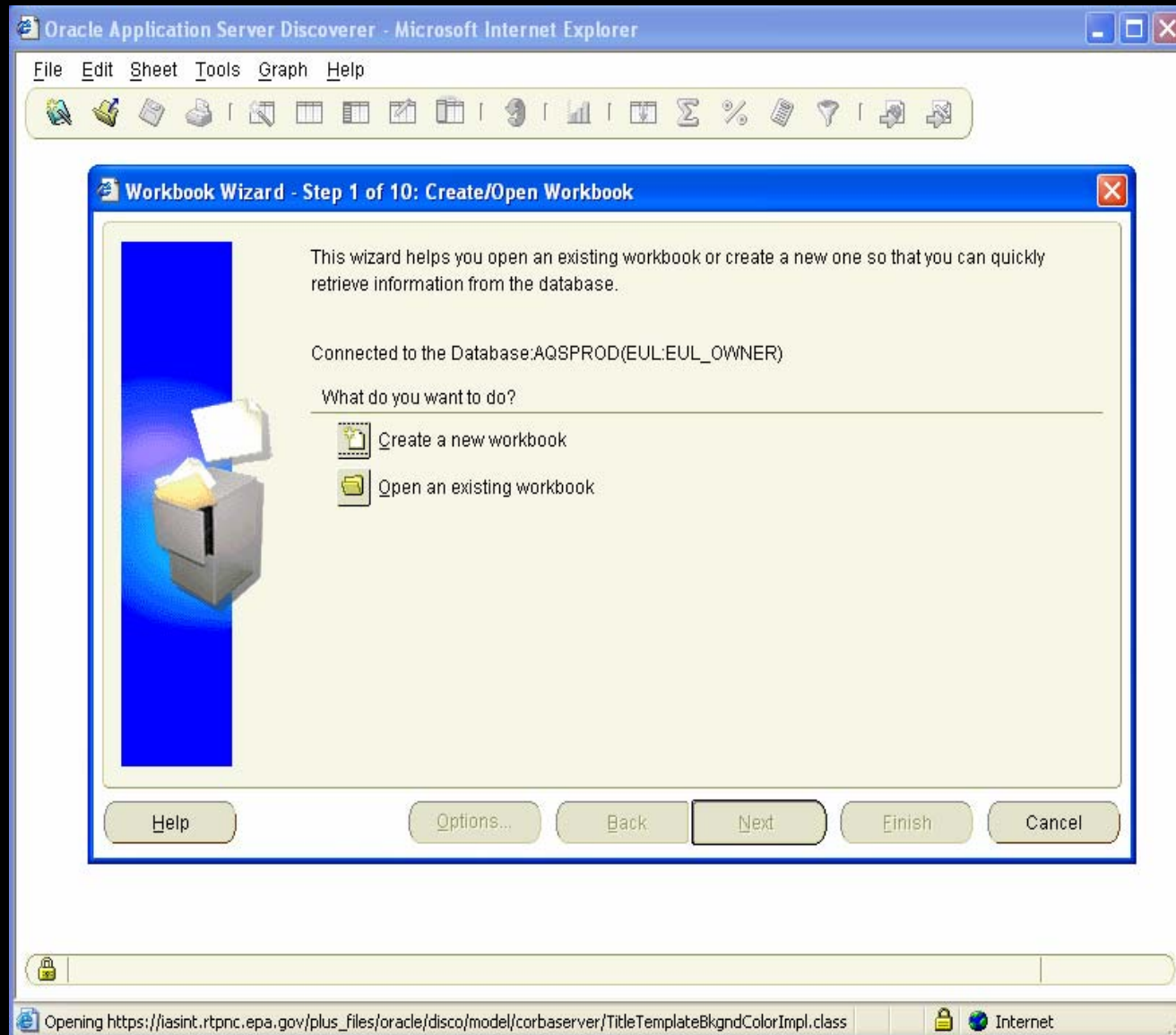




# Starting Discoverer for the 1<sup>st</sup> time on your PC, cont'd



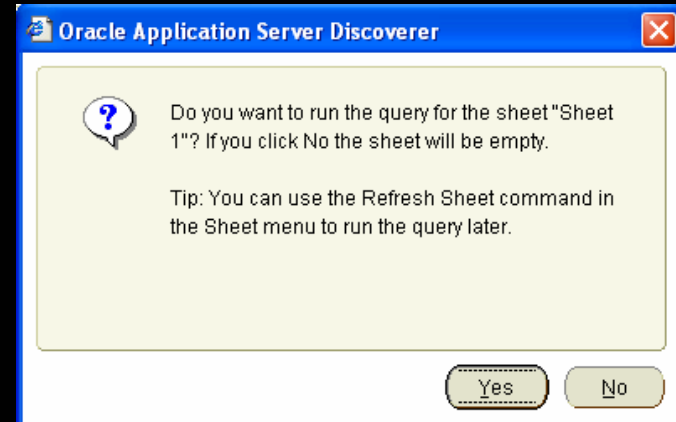
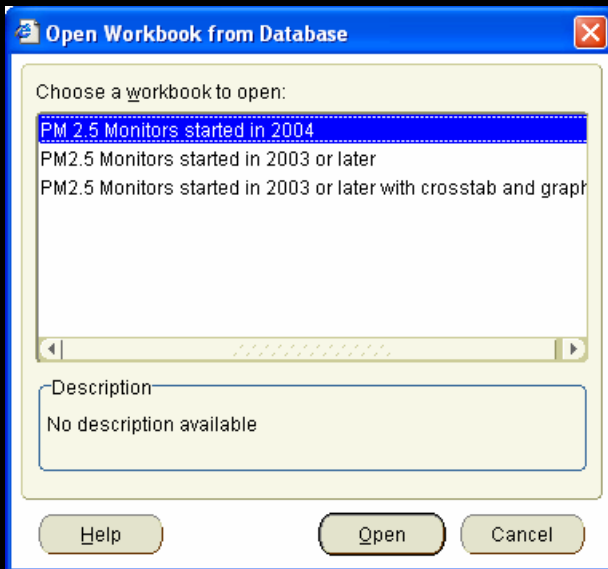
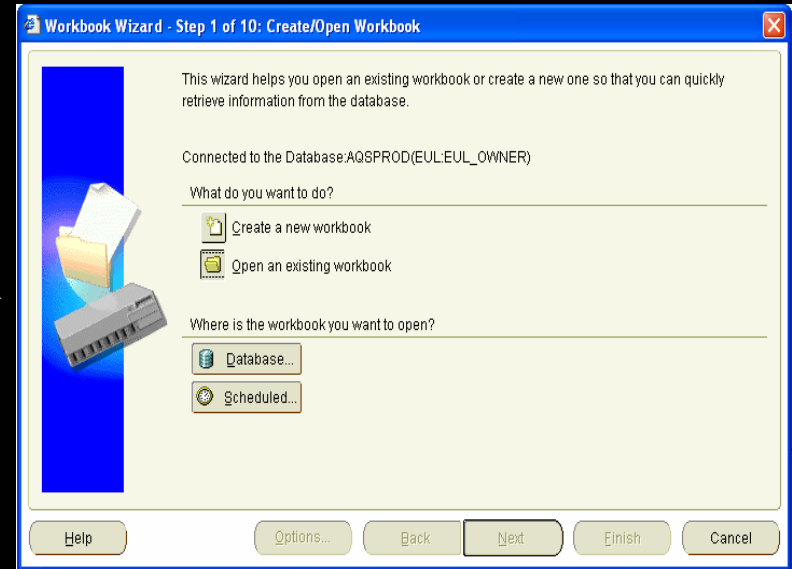
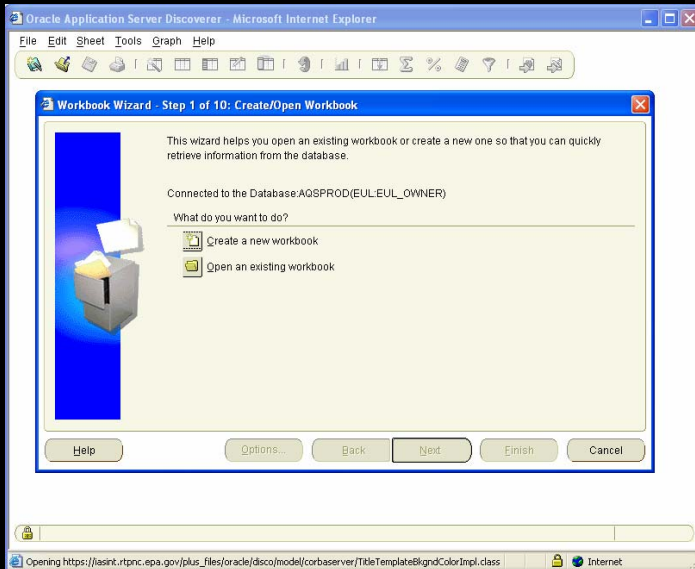
# Successful connection



# Exercise 1

1. Launch a web browser
2. Go to  
<https://iasint.rtpnc.epa.gov/discoverer/plus>
3. Create your connection
4. Connect

# Opening an Existing Workbook



# Opening an Existing Workbook

Oracle Application Server Discoverer - [PM2.5 Monitors started in 2004] - Microsoft Internet Explorer

File Edit Sheet Tools Graph Help

PM 2.5 Monitors with Sampling Periods Beginning in 2004  
As of 22-SEP-04

|    | State Abbr | State Code | County Code | Site ID | Parameter Code | POC | Date Sampling Began | Date Sampling Ended |
|----|------------|------------|-------------|---------|----------------|-----|---------------------|---------------------|
| 1  | AK         | 02         | 232         | 0001    | 88101          | 1   | 03-FEB-2004         | -                   |
| 2  |            |            | 232         | 0002    | 88101          | 1   | 05-JAN-2004         | -                   |
| 3  |            |            |             |         |                |     | Count: 2            |                     |
| 4  | AL         | 01         | 073         | 1010    | 88101          | 1   | 01-JAN-2004         | -                   |
| 5  |            |            | 073         | 1010    | 88101          | 2   | 01-JAN-2004         | -                   |
| 6  |            |            | 113         | 0001    | 88101          | 2   | 17-MAY-2004         | -                   |
| 7  |            |            | 119         | 0002    | 88101          | 2   | 31-MAR-2004         | -                   |
| 8  |            |            |             |         |                |     | Count: 4            |                     |
| 9  | AZ         | 04         | 013         | 0019    | 88101          | 2   | 01-JAN-2004         | -                   |
| 10 |            |            | 013         | 0019    | 88101          | 5   | 22-MAR-2004         | -                   |
| 11 |            |            | 013         | 8005    | 88101          | 3   | 01-JAN-2004         | 02-JAN-2004         |
| 12 |            |            |             |         |                |     | Count: 3            |                     |
| 13 | CA         | 06         | 021         | 0002    | 88101          | 3   | 03-JUN-2004         | -                   |
| 14 |            |            | 051         | 0001    | 88101          | 1   | 19-MAR-2004         | -                   |
| 15 |            |            | 061         | 0006    | 88101          | 3   | 23-JUN-2004         | -                   |
| 16 |            |            | 067         | 0010    | 88101          | 3   | 18-MAY-2004         | -                   |
| 17 |            |            | 067         | 0010    | 88101          | 4   | 18-MAY-2004         | -                   |
| 18 |            |            | 073         | 2004    | 88101          | 1   | 04-JAN-2004         | -                   |
| 19 |            |            | 073         | 2004    | 88101          | 2   | 04-JAN-2004         | -                   |
| 20 |            |            | 101         | 0003    | 88101          | 3   | 14-JUN-2004         | -                   |
| 21 |            |            |             |         |                |     | Count: 8            |                     |

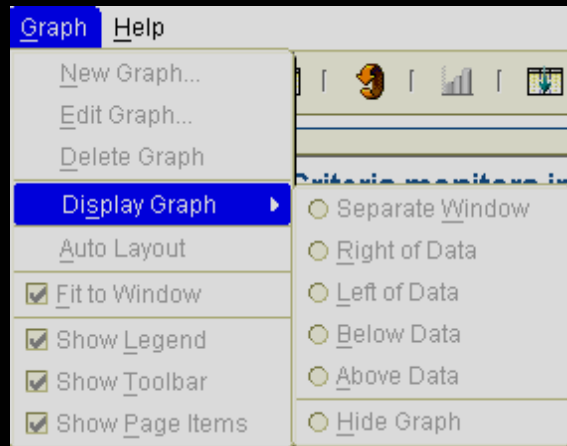
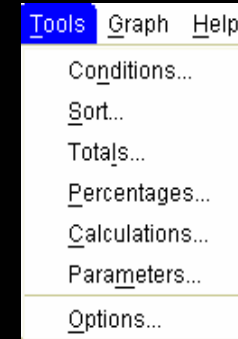
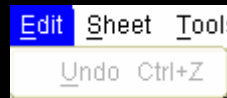
Page 1 of 2

100 Rows per Page

Sheet 1


Opening <https://iasint.rtpnc.epa.gov:443/discoverer/plus.jsessionid=8643d0d9ce8d20a34abbe3244453a7e9291c0ca177d?rmicmd=forward&>


# Work Area



# Online Help

[Skip Headers](#)

 **Oracle Application Server Discoverer Plus User's Guide (Online Help)**  
10g (9.0.4)  
Part Number B10268-01 [Index](#)



## Contents

[Title and Copyright Information](#)

[Send Us Your Comments](#)

### Preface

- [OracleAS Discoverer Navigation and Accessibility](#)
- [Keyboard Navigation](#)
- [Changing font sizes and colors for enhanced readability](#)
- [Documentation Accessibility](#)
- [Intended Audience](#)
- [Structure](#)
- [Related Documents](#)
- [Conventions](#)
- [Prerequisites to run Discoverer Plus](#)

### Part I Getting Started

#### 1 Introducing Discoverer Plus

- [Introducing Discoverer Plus](#)
- [What is Discoverer Plus?](#)
- [What are the new features in Discoverer Plus Version 9.0.4?](#)
- [Why should I use Discoverer?](#)
- [What is different about Discoverer Plus?](#)
- [What are business areas, folders, and items?](#)
- [What are business areas](#)

Thursday, October 28, 2004



**Register for Oracle OpenWorld San Francisco (Dec 5-9)**

This year Oracle has combined its two premier conferences, Oracle AppsWorld and OpenWorld, into a single, information-packed event. It offers a **huge selection** of Tech Sessions, Hands-On Labs, Demos, and Evening Events (including **OTN Night**) that no Developer, DBA, or IT Manager can afford to miss. Register before Dec. 3 and save \$300!

**Using Oracle Database Transactions in .NET**

Learn the basics about coding Oracle database transactions in Visual Basic .NET and C#. [ More on [Oracle on Windows](#) ]

**Technical Note: Using PHP to Create Custom SSO Login and Sign-Off Pages**

It's quick and easy to create and manage custom login and sign-off pages for Oracle Application Server Single Sign-On using PHP. [ More on [PHP](#) ]

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Download new sample chapters from *Oracle Database 10g: The Complete Reference* (Oracle Press), *Oracle SQL: Jumpstart with Examples* (Elsevier), *Oracle Application Server 10g: J2EE Deployment and Administration* (APress), and other titles.

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- Select Documentation
- Select Sample Code
- Select Training
- Select Support





## Exercise 2

- Connect
- Open an existing workbook in the AQS Basic business area  
("PM 2.5 Monitors started in 2004")
- Run the workbook

## Using the Workbook Wizard to Create a New Workbook

### Goal:

1. Find all PM 2.5 monitors with sampling dates beginning in 2004.
2. Sort the results by state abbreviation, county, site, and POC.
3. Display start date and end date (if any) for sampling periods
4. Display count of monitors in each state.
5. Add an appropriate title
6. Save the workbook on the database.

Live Demo . . . . .

### **Exercise 3:**

- 1. List all sites in your state that have been terminated. For each row, show the state code, county code, site ID, date site created and date site terminated.**
- 2. Add a title.**
- 3. Include a count of the number of sites that have been terminated for each county and a grand total at the bottom.**

## Exercise 3 sample results

https://iasint.rtpnc.epa.gov - Oracle Application Server Discoverer - [Terminated Sites in NC] - ...

File Edit Sheet Tools Graph Help

Terminated Sites in NC

|    | State Code | County Code | Site ID  | Date Site Established | Date Site Terminated |
|----|------------|-------------|----------|-----------------------|----------------------|
| 1  | 37         | 001         | 0001     | 01-JAN-1971           | 31-DEC-2000          |
| 2  |            |             | 1001     | 01-JAN-1971           | 31-JUL-2002          |
| 3  |            |             | Count: 2 |                       |                      |
| 4  |            | 003         | 0001     | 01-JAN-1972           | 31-JUL-2002          |
| 5  |            |             | Count: 1 |                       |                      |
| 6  |            | 005         | 0001     | 01-JAN-1963           | 31-JUL-2002          |
| 7  |            |             | Count: 1 |                       |                      |
| 8  |            | 009         | 0001     | 01-JAN-1971           | 31-JUL-2002          |
| 9  |            |             | Count: 1 |                       |                      |
| 10 |            | 011         | 0001     | 20-APR-1998           | 31-JUL-2002          |
| 11 |            |             | Count: 1 |                       |                      |
| 12 |            | 013         | 0002     | 01-JAN-1980           | 31-JUL-2002          |
| 13 |            |             | 1002     | 01-JAN-1977           | 31-JUL-2002          |
| 14 |            |             | 0001     | 01-JAN-1971           | 31-JUL-2002          |
| 15 |            |             | 0150     | 01-JAN-1980           | 31-JUL-2002          |
| 16 |            |             | 1001     | 01-JAN-1971           | 31-JUL-2002          |

Page 1 of 1 100 Rows per Page

Sheet 1

Opening https://iasint.rtpnc.epa.gov/plus\_files/oracle/disco/image/ Internet

# Default Worksheet Settings

The screenshot shows the Oracle Application Server Discoverer interface. The main window displays a table titled "Terminated Sites in NC" with columns: State, Site ID, Date Site Established, and Date Site Terminated. The "Options" dialog box is open, showing the "Aggregation" tab. The "Summary Data" section is expanded, showing the "Always, when available" radio button selected. The "Query Governor" section has several checkboxes checked, and the "Retrieve data incrementally in groups of:" and "Cancel list-of-values retrieval after:" fields are set to 100 and 0:15 respectively.

| State | Site ID | Date Site Established | Date Site Terminated |
|-------|---------|-----------------------|----------------------|
| 37    | 001     | 01-JAN-1971           | 31-DEC-2000          |
| 37    | 002     | 01-JAN-1971           | 31-DEC-2000          |

**Options** (General | Query Governor | Default Formats | Advanced | EUL)

Workbooks

After opening a workbook:

- Run query automatically
- Don't run query (leave sheet empty)
- Ask for confirmation

Scheduled Workbooks

- Don't show the new results window after initial connection
- Don't show expired results on exit, delete results automatically

Wizards

- Show wizard graphics

**Options** (General | Query Governor | Sheet Format | Aggregation | Default Formats | Advanced | EUL)

Summary Data

Summary data can be set up by your Discoverer manager to improve performance. When do you want to use summary data?

- Always, when available
- Only when summary data is not out of date (stale)
- Never

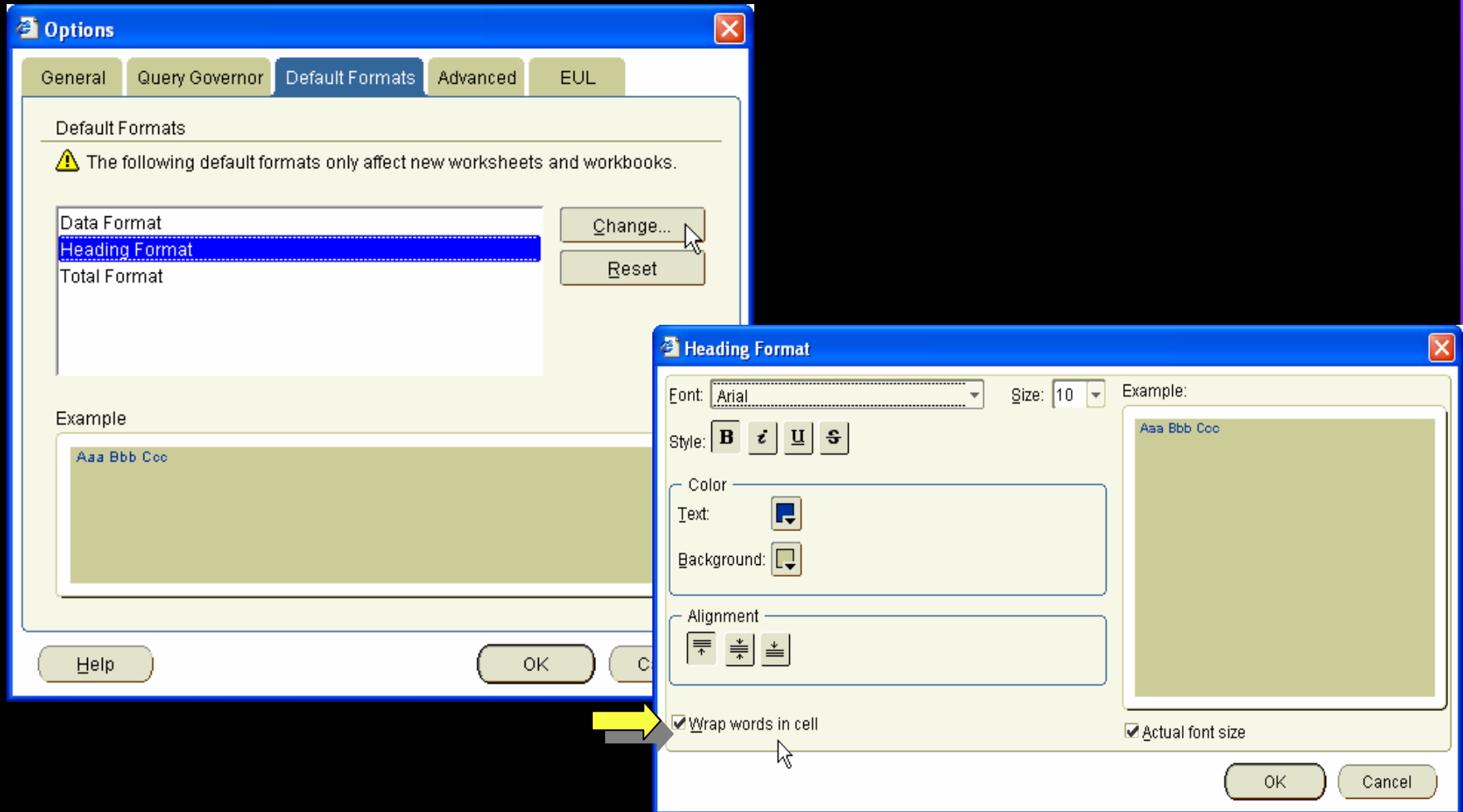
Query Governor

- Warn me if predicted query time exceeds: 1:00 mins:secs
- Prevent queries from running longer than: 5:00 mins:secs
- Limit retrieved query data to: 100000 rows

Retrieve data incrementally in groups of: 100 rows

Cancel list-of-values retrieval after: 0:15 mins:secs

## Default Worksheet Settings, cont'd



# Other Views - Crosstab

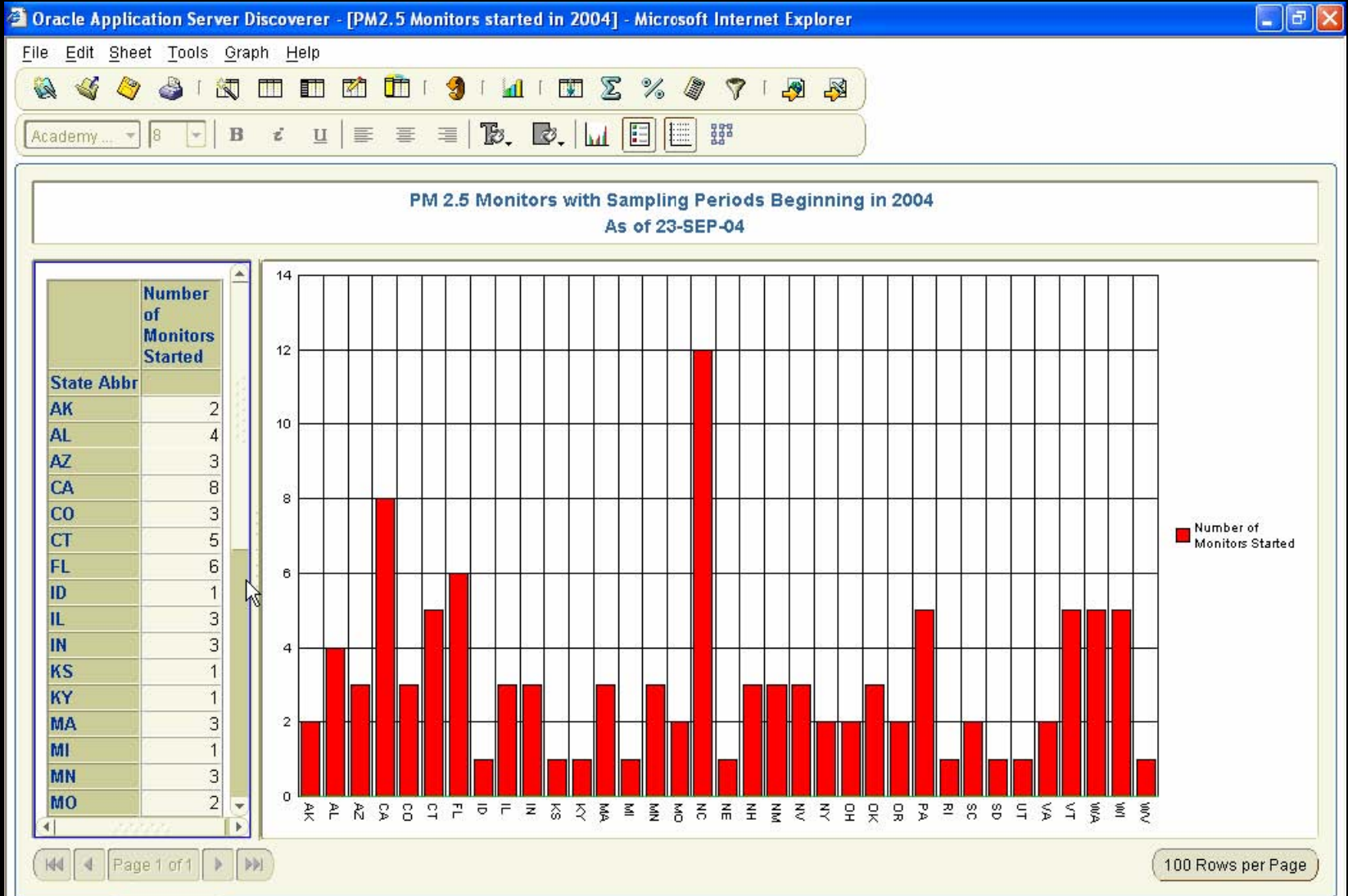
The screenshot shows a web browser window titled "Oracle Application Server Discoverer - [PM2.5 Monitors started in 2004] - Microsoft Internet Explorer". The browser's address bar shows the URL "http://iasint.rtpnc.epa.gov/plus\_files/oracle/disco/image/". The main content area displays a crosstab titled "PM 2.5 Monitors with Sampling Periods Beginning in 2004" and "As of 23-SEP-04". The crosstab has two columns: "State Abbr" and "Number of Monitors Started". The data is as follows:

| State Abbr | Number of Monitors Started |
|------------|----------------------------|
| AK         | 2                          |
| AL         | 4                          |
| AZ         | 3                          |
| CA         | 8                          |
| CO         | 3                          |
| CT         | 5                          |
| FL         | 6                          |
| ID         | 1                          |
| IL         | 3                          |
| IN         | 3                          |
| KS         | 1                          |
| KY         | 1                          |
| MA         | 3                          |
| MI         | 1                          |
| MN         | 3                          |

Below the table, there are navigation controls including "Page 1 of 1" and "100 Rows per Page". At the bottom, there are tabs for "Sheet 1" and "Sheet 2", and a status bar indicating "Opening http://iasint.rtpnc.epa.gov/plus\_files/oracle/disco/image/" and "Internet".



...add a graph.



# Output Options - Excel

Microsoft Excel - PM2.5 Monitors started in 2004.xls

File Edit View Insert Format Tools Data Window Help Adobe PDF Type a question for help

100% Arial 10 B I U

PM 2.5 Monitors with Sampling Periods Beginning in 2004 As of 23-SEP-04

|    | A   | B                 | C                  | D              | E                     | F          | G                          | H                          | I | J | K | L |
|----|---|-------------------|--------------------|----------------|-----------------------|------------|----------------------------|----------------------------|---|---|---|---|
| 1  | PM 2.5 Monitors with Sampling Periods Beginning in 2004 As of 23-SEP-04 |                   |                    |                |                       |            |                            |                            |   |   |   |   |
| 2  |   |                   |                    |                |                       |            |                            |                            |   |   |   |   |
| 3  | <b>State Abbr</b>   | <b>State Code</b> | <b>County Code</b> | <b>Site ID</b> | <b>Parameter Code</b> | <b>POC</b> | <b>Date Sampling Began</b> | <b>Date Sampling Ended</b> |   |   |   |   |
| 4  | AK  | 02                | 232                | 0001           | 88101                 | 1          | 03-Feb-2004                | -                          |   |   |   |   |
| 5  |   |                   | 232                | 0002           | 88101                 | 1          | 05-Jan-2004                | -                          |   |   |   |   |
| 6  |   |                   |                    |                |                       |            | Count: 2                   |                            |   |   |   |   |
| 7  | AL  | 01                | 073                | 1010           | 88101                 | 1          | 01-Jan-2004                | -                          |   |   |   |   |
| 8  |   |                   | 073                | 1010           | 88101                 | 2          | 01-Jan-2004                | -                          |   |   |   |   |
| 9  |   |                   | 113                | 0001           | 88101                 | 2          | 17-May-2004                | -                          |   |   |   |   |
| 10 |   |                   | 119                | 0002           | 88101                 | 2          | 31-Mar-2004                | -                          |   |   |   |   |
| 11 |   |                   |                    |                |                       |            | Count: 4                   |                            |   |   |   |   |
| 12 | AZ  | 04                | 013                | 0019           | 88101                 | 2          | 01-Jan-2004                | -                          |   |   |   |   |
| 13 |   |                   | 013                | 0019           | 88101                 | 5          | 22-Mar-2004                | -                          |   |   |   |   |
| 14 |   |                   | 013                | 8005           | 88101                 | 3          | 01-Jan-2004                | 02-Jan-2004                |   |   |   |   |
| 15 |   |                   |                    |                |                       |            | Count: 3                   |                            |   |   |   |   |
| 16 | CA  | 06                | 021                | 0002           | 88101                 | 3          | 03-Jun-2004                | -                          |   |   |   |   |
| 17 |   |                   | 051                | 0001           | 88101                 | 1          | 19-Mar-2004                | -                          |   |   |   |   |
| 18 |   |                   | 061                | 0006           | 88101                 | 3          | 23-Jun-2004                | -                          |   |   |   |   |
| 19 |   |                   | 067                | 0010           | 88101                 | 3          | 18-May-2004                | -                          |   |   |   |   |
| 20 |   |                   | 067                | 0010           | 88101                 | 4          | 18-May-2004                | -                          |   |   |   |   |
| 21 |   |                   | 073                | 2004           | 88101                 | 1          | 04-Jan-2004                | -                          |   |   |   |   |
| 22 |   |                   | 073                | 2004           | 88101                 | 2          | 04-Jan-2004                | -                          |   |   |   |   |
| 23 |   |                   | 101                | 0003           | 88101                 | 3          | 14-Jun-2004                | -                          |   |   |   |   |
| 24 |   |                   |                    |                |                       |            | Count: 8                   |                            |   |   |   |   |
| 25 | CO  | 08                | 035                | 0004           | 88101                 | 1          | 29-May-2004                | 30-May-2004                |   |   |   |   |
| 26 |   |                   | 035                | 0004           | 88101                 | 3          | 29-May-2004                | -                          |   |   |   |   |
| 27 |   |                   | 077                | 0017           | 88101                 | 2          | 01-Jan-2004                | -                          |   |   |   |   |
| 28 |   |                   |                    |                |                       |            | Count: 3                   |                            |   |   |   |   |
| 29 | CT  | 09                | 001                | 0010           | 88101                 | 3          | 05-Jan-2004                | -                          |   |   |   |   |
| 30 |   |                   | 003                | 2006           | 88101                 | 3          | 17-May-2004                | -                          |   |   |   |   |
| 31 |   |                   | 009                | 0027           | 88101                 | 1          | 01-Jan-2004                | -                          |   |   |   |   |
| 32 |   |                   | 009                | 0027           | 88101                 | 3          | 09-Mar-2004                | -                          |   |   |   |   |
| 33 |   |                   | 009                | 0027           | 88101                 | 5          | 24-Feb-2004                | -                          |   |   |   |   |
| 34 |   |                   |                    |                |                       |            | Count: 5                   |                            |   |   |   |   |
| 35 | FL  | 12                | 031                | 0098           | 88101                 | 3          | 01-Jan-2004                | -                          |   |   |   |   |

Sheet 1

Ready NJM

# Output Options - HTML

PM2.5 Monitors started in 2004 Sheet 1 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

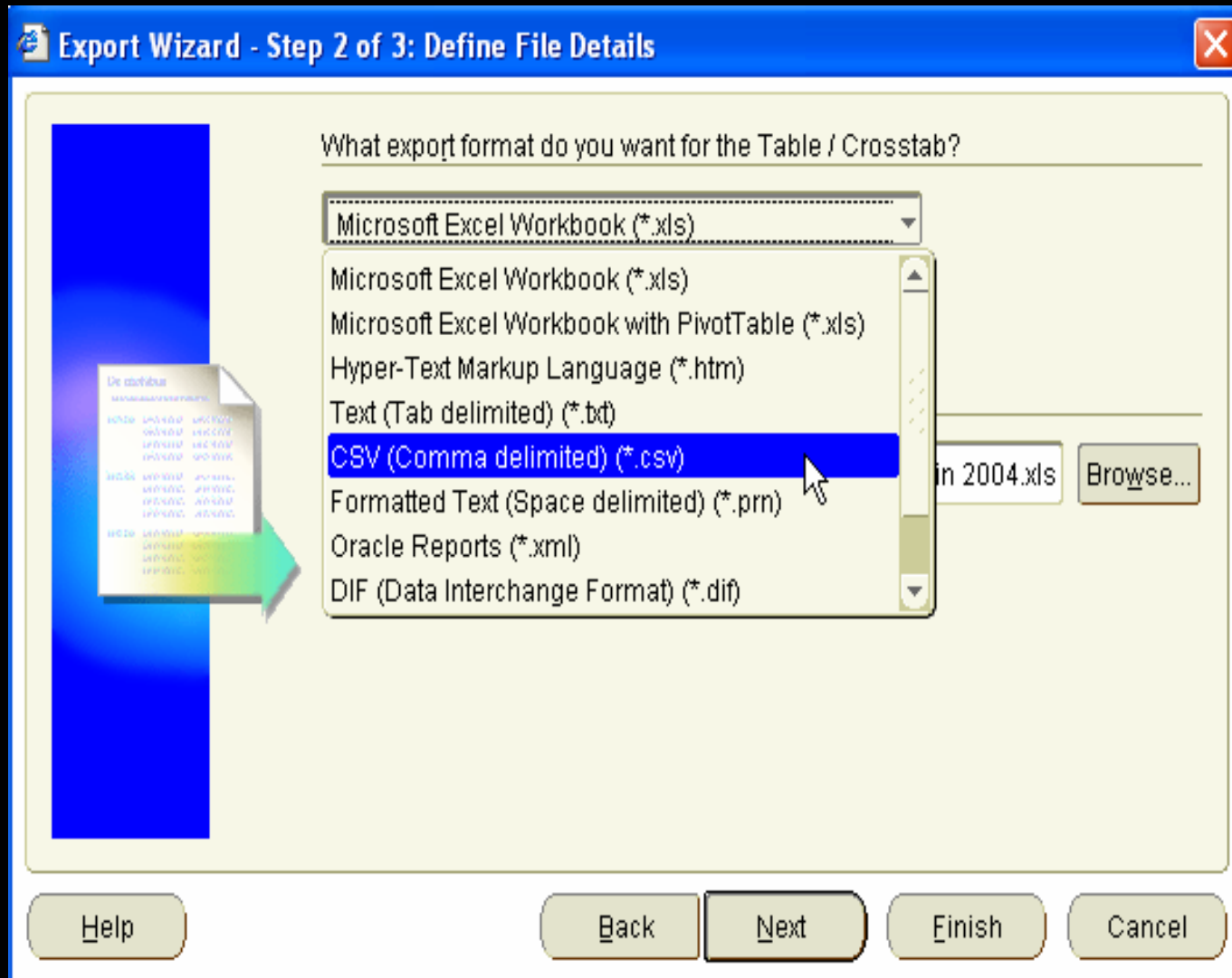
Address <C:\Documents and Settings\bjohnso1\PM2.5 Monitors started in 2004.htm> Go Links SnagIt

## PM 2.5 Monitors with Sampling Periods Beginning in 2004 As of 23-SEP-04

|    | State Abbr | State Code | County Code | Site ID | Parameter Code | POC | Date Sampling Began | Date Sampling Ended |
|----|------------|------------|-------------|---------|----------------|-----|---------------------|---------------------|
| 1  | AK         | 02         | 232         | 0001    | 88101          | 1   | 03-FEB-2004         | -                   |
| 2  |            |            | 232         | 0002    | 88101          | 1   | 05-JAN-2004         | -                   |
| 3  |            |            |             |         |                |     | Count: 2            |                     |
| 4  | AL         | 01         | 073         | 1010    | 88101          | 1   | 01-JAN-2004         | -                   |
| 5  |            |            | 073         | 1010    | 88101          | 2   | 01-JAN-2004         | -                   |
| 6  |            |            | 113         | 0001    | 88101          | 2   | 17-MAY-2004         | -                   |
| 7  |            |            | 119         | 0002    | 88101          | 2   | 31-MAR-2004         | -                   |
| 8  |            |            |             |         |                |     | Count: 4            |                     |
| 9  | AZ         | 04         | 013         | 0019    | 88101          | 2   | 01-JAN-2004         | -                   |
| 10 |            |            | 013         | 0019    | 88101          | 5   | 22-MAR-2004         | -                   |
| 11 |            |            | 013         | 8005    | 88101          | 3   | 01-JAN-2004         | 02-JAN-2004         |
| 12 |            |            |             |         |                |     | Count: 3            |                     |
| 13 | CA         | 06         | 021         | 0002    | 88101          | 3   | 03-JUN-2004         | -                   |
| 14 |            |            | 051         | 0001    | 88101          | 1   | 19-MAR-2004         | -                   |
| 15 |            |            | 061         | 0006    | 88101          | 3   | 23-JUN-2004         | -                   |
| 16 |            |            | 067         | 0010    | 88101          | 3   | 18-MAY-2004         | -                   |
| 17 |            |            | 067         | 0010    | 88101          | 4   | 18-MAY-2004         | -                   |
| 18 |            |            | 073         | 2004    | 88101          | 1   | 04-JAN-2004         | -                   |
| 19 |            |            | 073         | 2004    | 88101          | 2   | 04-JAN-2004         | -                   |
| 20 |            |            | 101         | 0003    | 88101          | 3   | 14-JUN-2004         | -                   |
| 21 |            |            |             |         |                |     | Count: 8            |                     |
| 22 | CO         | 08         | 035         | 0004    | 88101          | 1   | 29-MAY-2004         | 30-MAY-2004         |
| 23 |            |            | 035         | 0004    | 88101          | 3   | 29-MAY-2004         | -                   |
| 24 |            |            | 077         | 0017    | 88101          | 2   | 01-JAN-2004         | -                   |
| 25 |            |            |             |         |                |     | Count: 3            |                     |
| 26 | CT         | 09         | 001         | 0010    | 88101          | 3   | 05-JAN-2004         | -                   |

Done My Computer

## Other Output Options



# Output Options

Comma delimited example – opened here with Excel

Microsoft Excel - PM2.5 Monitors started in 2004.csv

|    | A          | B          | C           | D       | E         | F   | G            | H                   | I | J |
|----|------------|------------|-------------|---------|-----------|-----|--------------|---------------------|---|---|
| 1  | PM 2.5     |            |             |         |           |     |              |                     |   |   |
| 2  |            |            |             |         |           |     |              |                     |   |   |
| 3  | State Abbr | State Code | County Code | Site ID | Parameter | POC | Date Sampled | Date Sampling Ended |   |   |
| 4  | AK         | 2          | 232         | 1       | 88101     | 1   | 3-Feb-04     | -                   |   |   |
| 5  |            |            | 232         | 2       | 88101     | 1   | 5-Jan-04     | -                   |   |   |
| 6  |            |            |             |         |           |     | Count: 2     |                     |   |   |
| 7  | AL         | 1          | 73          | 1010    | 88101     | 1   | 1-Jan-04     | -                   |   |   |
| 8  |            |            | 73          | 1010    | 88101     | 2   | 1-Jan-04     | -                   |   |   |
| 9  |            |            | 113         | 1       | 88101     | 2   | #####        | -                   |   |   |
| 10 |            |            | 119         | 2       | 88101     | 2   | 31-Mar-04    | -                   |   |   |
| 11 |            |            |             |         |           |     | Count: 4     |                     |   |   |
| 12 | AZ         | 4          | 13          | 19      | 88101     | 2   | 1-Jan-04     | -                   |   |   |
| 13 |            |            | 13          | 19      | 88101     | 5   | 22-Mar-04    | -                   |   |   |
| 14 |            |            | 13          | 8005    | 88101     | 3   | 1-Jan-04     | 2-Jan-04            |   |   |
| 15 |            |            |             |         |           |     | Count: 3     |                     |   |   |
| 16 | CA         | 6          | 21          | 2       | 88101     | 3   | 3-Jun-04     | -                   |   |   |
| 17 |            |            | 51          | 1       | 88101     | 1   | 19-Mar-04    | -                   |   |   |
| 18 |            |            | 61          | 6       | 88101     | 3   | 23-Jun-04    | -                   |   |   |
| 19 |            |            | 67          | 10      | 88101     | 3   | #####        | -                   |   |   |
| 20 |            |            | 67          | 10      | 88101     | 4   | #####        | -                   |   |   |
| 21 |            |            | 73          | 2004    | 88101     | 1   | 4-Jan-04     | -                   |   |   |
| 22 |            |            | 73          | 2004    | 88101     | 2   | 4-Jan-04     | -                   |   |   |
| 23 |            |            | 101         | 3       | 88101     | 3   | 14-Jun-04    | -                   |   |   |
| 24 |            |            |             |         |           |     | Count: 8     |                     |   |   |

There's lots to do --  
Discover the data  
with ***DISCOVERER!***

