

# DATA CHECKER OVERVIEW FOR USE WITH ILRP DATA

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Coordinating efforts between the CVRWQCB and the  
CV RDC

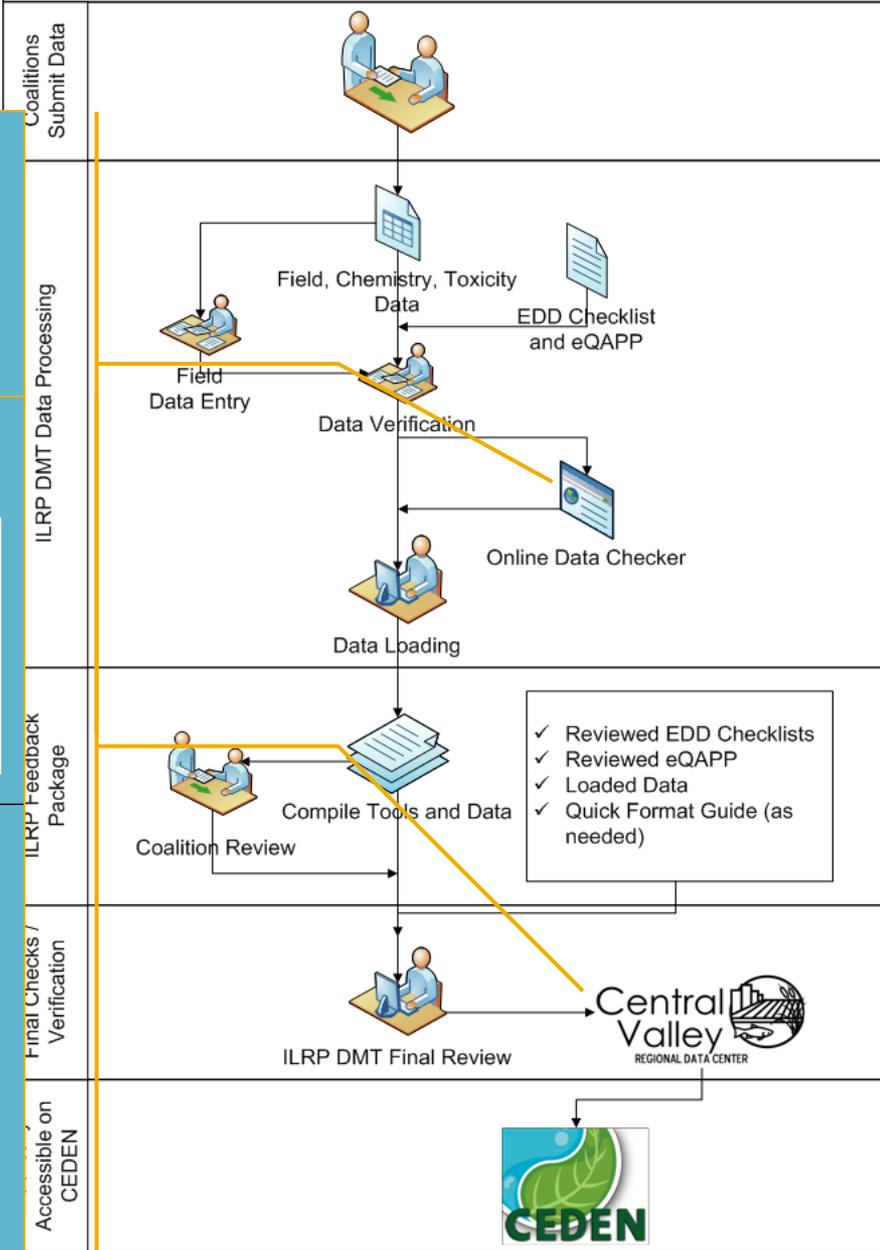
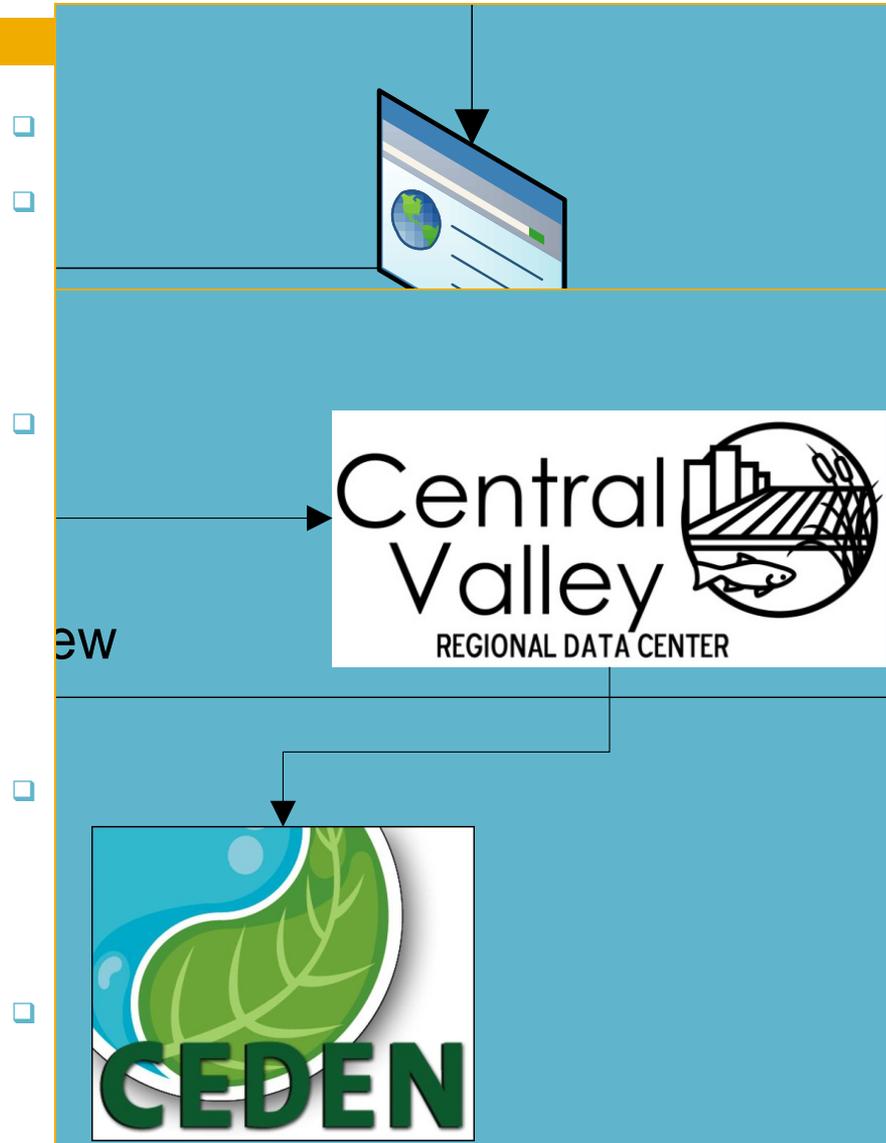
# Agenda

- Flow of ILRP data
- What is a data checker?
- How does a data checker work?
- Troubleshooting Errors
- Requesting New Valid Values
- Example Data Set
- References
- Questions



# Flow of ILRP Data

ILRP Data Processing Chart



HOME

SERVICES

CENTRAL VALLEY  
REGIONAL DATA CENTER

PROJECT PROFILES

CONTACT US

RESOURCES

STAFF

## Central Valley Regional Data Center

The **Central Valley Regional Data Center (CV RDC)** is one of the four regional data centers that support the [California Environmental Data Exchange Network \(CEDEN\)](#). The CV RDC is being managed through Michael L. Johnson, LLC (MLJ-LLC). MLJ-LLC is dedicated to building partnerships among various stakeholders with the goal of developing innovative solutions for improving environmental quality utilizing innovative research, robust monitoring designs and effective data management. The CV RDC works with data generators within the Central Valley and specifically with the Region 5 Irrigated Lands Regulatory Program to standardize and submit their ambient water quality data into the CEDEN system. The below links to a "Getting Started" page that describes and steps users through how to submit data to the CV RDC to transfer your data to CEDEN as well as links to documents, templates, and tools.

[Getting Started](#)

[Documents](#)

[Templates](#)

[Tools](#)

[Links](#)



Do you have feedback for our webpage? If so, [click here](#). We'd love to hear about your experience while visiting the CV RDC webpage.

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# Documentation

# [http://mlj-llc.com/cv\\_rdc.html](http://mlj-llc.com/cv_rdc.html)

# Documentation

[http://mlj-llc.com/cvrdc\\_documents.html](http://mlj-llc.com/cvrdc_documents.html)

- Field Form Template Entry Manual
- Chemistry Template Entry Manual
- Toxicity Template Entry Manual

## CV RDC Documents

### CEDEN ENTRY MANUALS

- [Chemistry Template Entry Manual \\*DRAFT\\*](#) (09/26/2011, 1.31 MB, PDF)  
A PDF document that describes the process for filling out the CEDEN Excel chemistry template.
- [Field Template Entry Manual \\*DRAFT\\*](#) (10/18/2011, 860 KB, PDF)  
A PDF document that describes the process for filling out the CEDEN Excel field template.
- [Toxicity Template Entry Manual \\*DRAFT\\*](#) (10/20/2011, 1.06 MB, PDF)  
A PDF document that describes the process for filling out the CEDEN Excel toxicity template.
- [Tissue Template Entry Manual \\*DRAFT\\*](#) (10/20/2011, 1.08 MB, PDF)  
A PDF document that describes the process for filling out the CEDEN Excel tissue template.

### CV RDC ENTRY MANUALS

- [Field Form Template Entry Manual](#) (04/27/2012, 1.51 MB, PDF)  
A PDF document that describes 1) the process for entering water quality field data into the CV RDC database through data entry forms and 2) entering water quality field data into the CV RDC templates.
- [Chemistry Template Entry Manual](#) (05/18/2012, 1.14 MB, PDF)  
A PDF document that describes the process for filling out the CV RDC Excel chemistry template and reporting analytical chemistry data to the CV RDC.
- [Toxicity Template Entry Manual](#) (04/30/2012, 1.30 MB, PDF)  
A PDF document that describes the process for filling out the CV RDC Excel toxicity template and reporting toxicity data to the CV RDC.

### ENTRY MANUALS SUPPORTING DOCUMENTS

- [File and Batch Naming Convention](#) (08/02/2011, 190 KB, PDF)  
A PDF document that describes the CV RDC naming conventions for files and batches.

# Documentation – example TOC

- Chemistry Template Entry Manual Table of Contents
  - ▣ Introduction
  - ▣ Chemistry Results/Labbatch Worksheet
  - ▣ Lab QA Entry
  - ▣ Field QA Samples
  - ▣ Calculating Percent Recoveries and Relative Percent Difference
  - ▣ Unique Business Rules (e.g. bacteria, pore water)
  - ▣ Data Checker
  - ▣ Batch Verification Codes / Compliance Codes
  - ▣ References

# What is a Data Checker?

- A data checker is an online tool created for data submitters who want to:
  - ▣ Review valid values in lookup lists
  - ▣ Request new values for lookup lists
  - ▣ Check data for format comparability
  - ▣ Submit data to the CV RDC to go to CEDEN (ILRP data must be submitted directly to ILRP staff for regulatory compliance)
- CV RDC Data Checker location:
  - ▣ <http://ftp.mpsl.mlml.calstate.edu/CVRDCupload.php>

# Who Can Use the Data Checker?

- Any data submitter who has data in CEDEN comparable templates (either CEDEN templates or CV RDC templates)
  - ▣ Templates are available at:  
[http://mlj-llc.com/cvrdc\\_templates.html](http://mlj-llc.com/cvrdc_templates.html)
  - ▣ ILRP data generators can use the data checker to review data but **NOT** to submit data for compliance

# How Does the Data Checker Work?

Central Valley Regional Data Center (CV RDC) Data Center June 19, 2012

[Introduction](#)

Data Category:

Your Name:

Your Email Address:

Your Agency:

ABCL	Aquatic Bioassay and Consulting Laboratories, Inc.
Algalita	Algalita
ALPHA	Alpha Analytical, Inc.
AMS	Applied Marine Sciences, Inc.
APPL	Agriculture & Priority Pollutants Laboratories, Inc
AquaSci	AquaScience
Babcock	E.S. Babcock & Sons, Inc.
B&L	Basic Laboratory, Inc.

File to Upload:  No file chosen   Check for existing samples

Instructions For Data Category: [Field Results](#) [Chemistry](#) [Toxicity](#)

**Please Note:** Please note. The valid values contained in the lookup lists are specific to current CEDEN the CV RDC. Lookup list errors should be addressed through the [CV RDC Troubleshooting Page](#).

[Troubleshooting Report Errors & LookUp Lists](#) [Submit New Values](#)

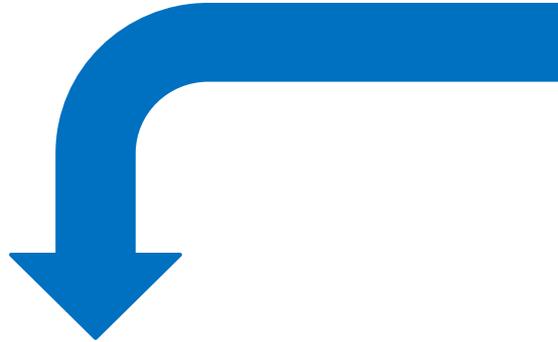
\*Please be aware that new error checks and functionality are routinely added\*

Field  
Chemistry  
Toxicity

Data Submitter  
Information

Reference Information:  
Link to troubleshooting excel file  
Search for valid values in lookup lists  
Request new values

# Troubleshooting



### Central Valley Regional Data Center (CV RDC) Data Checker

[Introduction](#)

Data Category:

Your Name:

Your Email Address:

Your Agency:

ABCL	Aquatic Bioassay and Consulting Laboratories, Inc.
Algalita	Algalita
ALPHA	Alpha Analytical, Inc.
AHS	Applied Marine Sciences, Inc.
APPL	Agriculture & Priority Pollutants Laboratories, Inc.
AquaSci	AquaScience
Babcock	E.S. Babcock & Sons, Inc.
B&L	Basic Laboratory, Inc.

File to Upload:

No file chosen   Check for existing samples

Instructions For Data Category: [Field Results](#) [Chemistry](#) [Toxicity](#)

**Please Note:** Please note. The valid values contained in the lookup lists are specific to current CV RDC. Lookup list errors should be addressed through the [CV RDC Troubleshooting Page](#)

[Troubleshooting Report Errors & LookUp Lists](#) [Submit New Values](#)

\*Please be aware that new error checks and functionality are routinely added\*

CV RDC Data Checker Main Me x CV RDC Upload Troubleshootir x

http://ftp.mpsl.mlm.calstate.edu/CVRDC\_Troubleshooting.php

[Click here for in-depth Error Message Descriptions](#)

It is recommended you close the excel file before using the checker.

If you see the value "{IS NULL}" in an error table it means the submitted value was missing, blank, or in the wrong format.

ILRP naming conventions, data templates and documentation are available at: [Irrigated Lands - Electronic Water Quality Monitoring Data Submission Resources](#)

Additional documentation regarding naming conventions, data templates and documentation are available at: [SWAMP v2.5 Database](#)

Click on the following link to select a request form for new analytes, methods, stations and protocols. Submit request to the CV RDC directly through the form or [via e-mail](#) if you'd prefer to use an excel file. Include in your email your first and last name and the agency/coalition you represent.

[New LookUp Value Request Forms](#)

Please contact CV RDC [via e-mail](#) with any questions or comments.

# Troubleshooting Link

- Troubleshooting excel file
  - ▣ Data Checker Error Message
  - ▣ Data Checker Error Description
  - ▣ Data Checker Error Specifications
  - ▣ Helpful Hints
  - ▣ When Do I Ignore Error?

Central Valley Regional Data Center (CV RDC) Data Checker

[Introduction](#)

Data Category:

Your Name:

Your Email Address:

Your Agency:

ABCL	Aquatic Bioassay and Consulting Laboratories, Inc.
Algalita	Algalita
ALPHA	Alpha Analytical, Inc.
AMS	Applied Marine Sciences, Inc.
APPL	Agriculture & Priority Pollutants Laboratories, Inc
AquaSci	AquaScience
Babcock	E.S. Babcock & Sons, Inc.
B&L	Basic Laboratory, Inc.

File to Upload:  
 No file chosen   Check for existing samples

Instructions For Data Category: [Field Results](#) [Chemistry](#) [Toxicity](#)

**Please Note:** Please note. The valid values contained in the lookup lists are specific to current CV RDC. Lookup list errors should be addressed through the [CV RDC Troubleshooting Page](#)

[Troubleshooting Report Errors & LookUp Lists](#) [Submit New Values](#)

\*Please be aware that new error checks and functionality are routinely added\*

- Also available at [http://mlj-llc.com/cvrdc\\_tools.html](http://mlj-llc.com/cvrdc_tools.html)
  - ▣ CVRDC Data Checker Trouble Shooting Table

# Request New Controlled Vocabulary

**Central Valley Regional Data Center (CV RDC) Data Checker**

[Introduction](#)

Data Category:

Your Name:

Your Email Address:

Your Agency:

ABCL	Aquatic Bioassay and Consulting Laboratories, Inc.
Algalita	Algalita
ALPHA	Alpha Analytical, Inc.
AMS	Applied Marine Sciences, Inc.
APPL	Agriculture & Priority Pollutants Laboratories, Inc.
AquaSci	AquaScience
Babcock	E.S. Babcock & Sons, Inc.
B&L	Basic Laboratory, Inc.

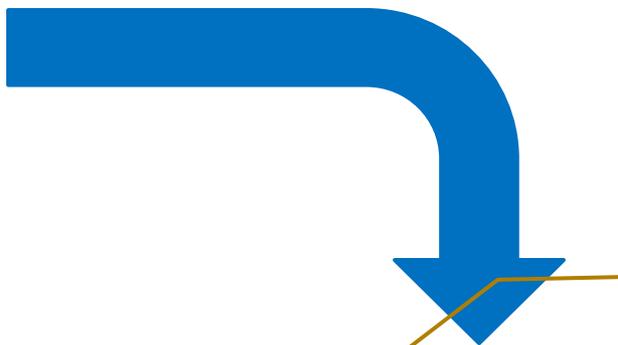
File to Upload:  
 No file chosen   Check for existing samples

Instructions For Data Category: [Field Results](#) [Chemistry](#) [Toxicity](#)

**Please Note:** Please note. The valid values contained in the lookup lists are specific to current CV the CV RDC. Lookup list errors should be addressed through the [CV RDC Troubleshooting Page](#)

[Troubleshooting Report Errors & Lookup Lists](#) [Submit New Values](#)

\*Please be aware that new error checks and functionalities are routinely added\*



Analyte  
Method  
Protocol  
Station

← → ↻ http://ftp.mpsl.miml.calstate.edu/CVRDC\_NewValueRequestForm.php ☆ 🔍

The following update forms can be used to submit to the CV RDC a request to add a new value to the CV RDC. Select the variable type from the list based on the new value that you are requesting (e.g. to add a new analyte, select the variable type from the list (new analyte, method, protocol or station) and upload the filled out excel form by clicking the browse button to the right. Once uploaded, click the "Send File" button. You will receive a reply from the CV RDC within one to two business days that we have received the request.

List:  
  Form  Excel Template

The following can be used to submit a filled out request form in excel to the CV RDC. Select the variable type from the list (new analyte, method, protocol or station) and upload the filled out excel form by clicking the browse button to the right. Once uploaded, click the "Send File" button. You will receive a reply from the CV RDC within one to two business days that we have received the request.

List:

File to Upload:  No file chosen

# Request New Controlled Vocabulary

- Select:
  - Analyte
  - Method
  - Protocol
  - Station
- Get form – excel or online
- Submit request by form
- Submit request by excel file
  - Excel request form includes a tab to fill out, an example tab and a notes tab

# New Method Request - Form

CV RDC New Valid Value Requ x

← → ↻ http://ftp.mpsl.mlml.calstate.edu/DisplayRequestForm.php

## Method

Requested By:	<input type="text"/>
Contact Email:	<input type="text"/>
Requested By Agency:	<input type="text"/>
Proposed New Method Name:	<input type="text"/>
Proposed New Method Description:	<input type="text"/>
Type1 (Lab, Field, Tox):	<input type="text"/>
Instrument:	<input type="text"/>
Method on File:	<input type="text"/>
Matrix:	<input type="text"/>
Analyte:	<input type="text"/>
Fraction:	<input type="text"/>
Unit:	<input type="text"/>

Fields highlighted in yellow are required. [Form Instructions](#)

**Submit New Value**

# New Method Request - Instructions

## Method Request Information

Field Name	Description
Requested By*	First and Last Name
Contact Email*	Email address of person requesting update.
Requested By Agency*	Associated agency, coalition, monitoring group
Proposed New Method Name*	Method Name: see Method Lookup for format examples.
Proposed New Method Description*	Method Description: see Method Lookup for format examples.
Type1*	Toxicity, Lab, or Field
Type2	Toxicity, Lab, or Field
Type3	Toxicity, Lab, or Field
Instrument	Instrument described in the method
Method on File	List the location where a copy of the method is kept on file. If the method is not a standard, ASTM or EPA method the RDC may request a copy of the method to ensure proper documentation. A copy of the method as a pdf can be submitted to <a href="mailto:CVRDCSubmittedFiles@gmail.com">CVRDCSubmittedFiles@gmail.com</a> .
Matrix*	See Matrix Lookup
Analyte*	See Analyte Lookup
Fraction*	See Fraction Lookup
Unit*	See Unit Lookup

\*Required fields.

Look up lists can be found at: [http://ftp.mpsl.mml.calstate.edu/CVRDC\\_LookUpLists.php](http://ftp.mpsl.mml.calstate.edu/CVRDC_LookUpLists.php)

# Example – Data Check

## Central Valley Regional Data Center (CV RDC) Data Checker

June 7, 2012

### [Introduction](#)

Data Category:

Chemistry

Your Name:

Victoria Bowles

Your Email Address:

vbowles@mlj-llc.com

Your Agency:

MERID	Merced Irrigation District
MLJ-LLC	Michael L. Johnson, LLC
MLML-BL	Moss Landing Marine Laboratories-Benthic Lab
MLML-TM	Moss Landing Marine Laboratories-Trace Metals Lab
MODID	Modesto Irrigation District
MPSL-DFG	Marine Pollution Studies Laboratory-DFG
MPSL-MLML	Marine Pollution Studies Laboratory-MLML
MWH	MWH Laboratories

File to Upload:

C:\Users\Tori\Desktop\Database\ILRPWebcheckerTraining\DatacheckerExample

Browse...

Check Excel File

Check for existing samples

Instructions For Data Category: [Field Results](#) [Chemistry](#) [Toxicity](#)

**Please Note:** Please note: The valid values contained in the lookup lists are specific to current CEDEN values maintained by the CV RDC. Lookup list errors should be addressed through the [CV RDC Troubleshooting Page](#).

[Troubleshooting Report Errors & LookUp Lists](#) [Submit New Values](#)

\*Please be aware that new error checks and functionality are routinely added\*

# Example – Data Errors

[Back to Main Page](#)

## Errors found in Results Worksheet:

Error	Excel Row	Error Field	Erroneous Value	LabSampleID	StationCode	SampleDate	SampleTypeCode	Replicate	AnalyteName	CollectionMethodCode	LabBatch
LabBatch with multiple AnalysisDates	2	LabBatch	"FGL_ESJ_2P1008980-A_W_Cu"	"VI 1041885-003"	"S35DMCAHF"	"06/Mar/2012"	"Grab"	"1"	"Copper"	"Water_Grab"	"FGL_ESJ_2P1008980-A_W_Cu"
CollectionTime did not follow convention for similar LABQAs.	5	CollectionTime	"00:00"	"SP 100830P-058 LCS"	"LABQA"	"30/Mar/2012"	"LCS"	"1"	"Copper"	"Not Applicable"	"FGL_ESJ_2P1008980-A_W_Cu"
Equal LabReplicates and CollectionTimes for two LABQAs of the same SampleTypeCode	5	LabReplicate	"1"	"SP 100830P-058 LCS"	"LABQA"	"30/Mar/2012"	"LCS"	"1"	"Copper"	"Not Applicable"	"FGL_ESJ_2P1008980-A_W_Cu"
CollectionTime did not follow convention for similar LABQAs.	6	CollectionTime	"00:00"	"SP 100830P-057 LCS"	"LABQA"	"30/Mar/2012"	"LCS"	"1"	"Copper"	"Not Applicable"	"FGL_ESJ_2P1008980-A_W_Cu"
LocationCode should have been "Not Recorded" for a Chemistry 000NONPJ	7	LocationCode	"Not Applicable"	"VI 1041868-001 MS"	"000NONPJ"	"30/Mar/2012"	"MS1"	"1"	"Copper"	"Not Recorded"	"FGL_ESJ_2P1008980-A_W_Cu"
Could not find the MS this is a duplicate of	8	Columns B-N	"	"VI 1041868-001 MSD"	"000NONPJ"	"30/Mar/2012"	"MS1"	"1"	"Copper"	"Not Recorded"	"FGL_ESJ_2P1008980-A_W_Cu"
Incorrectly formatted/missing PR	8	LabResultComments	"PR104, RPD 10.0"	"VI 1041868-001 MSD"	"000NONPJ"	"30/Mar/2012"	"MS1"	"1"	"Copper"	"Not Recorded"	"FGL_ESJ_2P1008980-A_W_Cu"
Incorrect PreparationPreservationDate	9	PreparationPreservationDate	"Jan 1 1950 12:00AM"	"VI 1041885-007"	"S35XRCARD"	"06/Mar/2012"	"Grab"	"2"	"Copper"	"Water_Grab"	"FGL_ESJ_2P1008980-A_W_Cu"
Differing dependent values for a StationCode/LabSampleID combination.	10	StationCode	"S35XRCARD"	"VI 1041885-005"	"S35XRCARD"	"06/Mar/2012"	"FieldBlank"	"1"	"Copper"	"Not Applicable"	"FGL_ESJ_2P1008980-A_W_Cu"
Constituent not found in ConstituentLookUp	11	MethodName, MatrixName, AnalyteName, FractionName, Unit	"EPA 200.8, samplewater, Copper, None, ug/L"	"VI 1041885-005"	"S35XRCARD"	"06/Mar/2012"	"FieldBlank"	"1"	"Copper"	"Not Applicable"	"FGL_ESJ_2P1008980-A_W_Cu"
Did not expect LabReplicate to be 2	11	LabReplicate	"2"	"VI 1041885-005"	"S35XRCARD"	"06/Mar/2012"	"FieldBlank"	"1"	"Copper"	"Not Applicable"	"FGL_ESJ_2P1008980-A_W_Cu"

[Troubleshooting Report Errors & LookUp Lists](#)

[Submit Data To CV RDC](#)

# Example – Email of Result Errors

Your file, DatacheckerExampleDataSet.xls, failed the CV RDC's Chemistry Data Checks. 



 **CV RDC** CVRDCDataChecker@gmail.com  
to me 

12:54 PM (20 minutes ago) 



 This message may not have been sent by: CVRDCDataChecker@gmail.com [Learn more](#) [Report phishing](#)

The CV RDC Chemistry Data Checker found errors in file DatacheckerExampleDataSet.xls.

---

 **DatacheckerExampleDataSet060712125442\_ResultsErrors.xls**  
4K [View](#) [Open as a Google spreadsheet](#) [Download](#)

# Example – Common Result Errors

- ❑ CollectionTime did not follow convention for similar LABQAs
- ❑ Constituent not found in ConstituentLookUp
- ❑ Could not find the MS this is a duplicate of
- ❑ Did not expect LabReplicate to be 2
- ❑ Differing dependent values for StationCode/LabSampleID combination
- ❑ Equal LabReplicates and CollectionTimes for two LABQAs of the same SampleTypeCode
- ❑ Incorrect PreparationPreservationDate
- ❑ Incorrectly formatted/missing PR
- ❑ LabBatch with multiple AnalysisDates
- ❑ LocationCode should have been “Not Recorded” for a chemistry 000NONPJ

# Example – Data Fixes

Error	Fix
CollectionTime did not follow convention for similar LABQAs.	Added 15 minutes to the collection time of one of the LCS.
Equal LabReplicates and CollectionTimes for two LABQAs of the same SampleTypeCode	Added 15 minutes to the collection time of one of the LCS.
Constituent not found in ConstituentLookUp	This result had a fraction of “None” for copper. Metals have a fraction of either Total or Dissolved. Updated to Total.
Could not find the MS this is a duplicate of	LocationCode was incorrect for one of the samples, updated to match the MS.
Did not expect LabReplicate to be 2	ProtocolCode was incorrectly recorded; updated to match information for LabReplicate 1.
Differing dependent values for a StationCode/LabSampleID combination.	ProtocolCode was incorrectly recorded; updated to match information for LabReplicate 1.
Incorrect PreparationPreservationDate	Result had a PreparationPreservation of “FieldAcidified” and a null date; updated date/time.

# Example – Data Fixes

Error	Fix
Incorrectly formatted/missing PR	Originally recorded as “PR104, RPD 10.0”; updated to include a space “PR 104, RPD 10.0”
LabBatch with multiple AnalysisDates	Incorrect year was applied to one of the analysis dates (data entry typo). Year was updated.
LocationCode should have been 'Not Recorded' for a Chemistry 000NONPJ	LocationCode for non project samples should be 'Not Recorded'. See checklist or CV RDC documentation for how to enter in 000NONPJ sample results.

# Example – Successful Check

**Congratulations! Your file has passed our data checks and is ready to be submitted to the CV RDC.**

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[Submit Data to CV RDC](#)

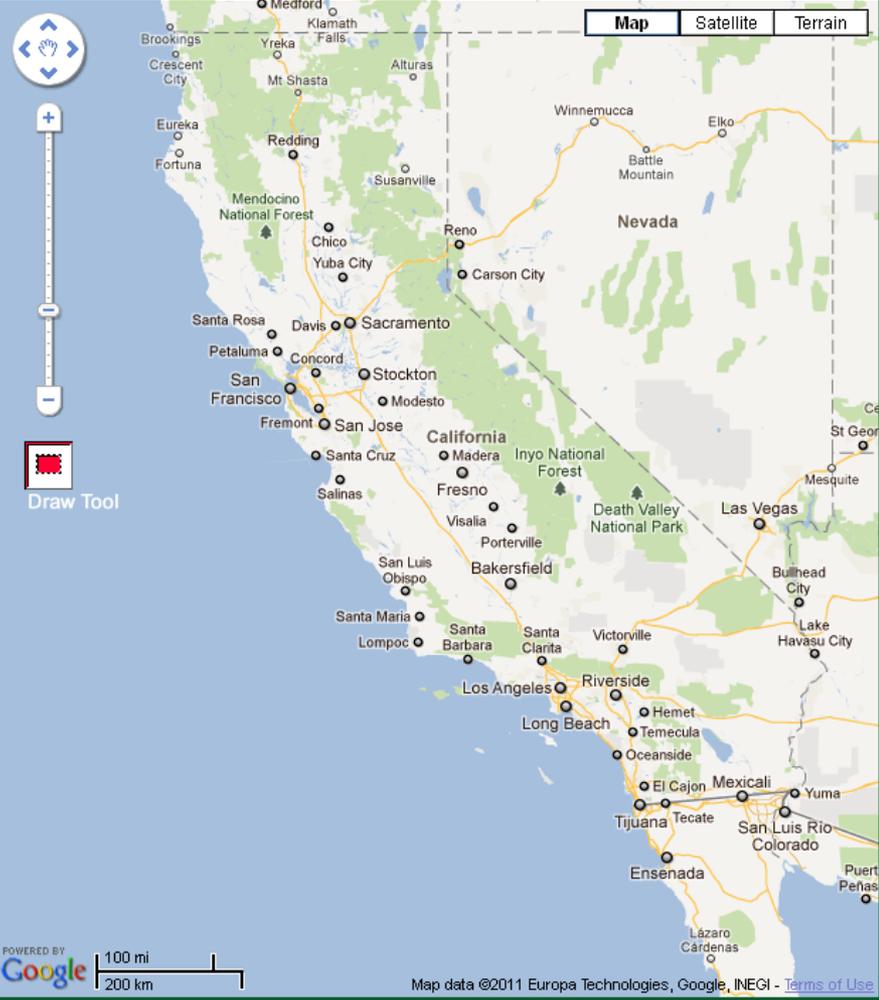
[Back to  
Main Page](#)

# ILRP Data on CEDEN

<b>ILRP Coalition</b>	<b>Date Range (as of June 2012)</b>
California Rice Commission	2009 - 2010
East San Joaquin Water Quality Coalition	2004 - 2011
Goose Lake Coalition	2007 - 2011
Modesto Irrigation District	2004 - 2009
Oakdale Irrigation District	2004 - 2008
Sacramento Valley Water Quality Coalition	2006 - 2011
San Joaquin County & Delta Water Quality Coalition	2004 - 2011
Westlands Stormwater Coalition	2009 - 2011
Westside San Joaquin River Watershed Coalition	2008 - 2011

# Querying Data from CEDEN

- Exporting data from CEDEN
  - ▣ <http://www.ceden.us/AdvancedQueryTool>
  - ▣ Interactive map with drawing tool
  - ▣ Data select criteria:
    - Programs
    - Projects
    - Parameter Groups
    - Parameters
    - Matrices
    - Stations
    - Data Range



RESULT CATEGORY:  Water Quality  Toxicity  Tissue

Turn on automatic station mapping.

Click **Map Stations** at any time to show stations on the map

**START OVER** **MAP STATIONS** **HELP**

Programs **SELECT** Do not limit search by Programs

Projects **SELECT** Do not limit search by Projects

Parameter Groups **SELECT** Do not limit search by Parameter Groups

Parameters **SELECT** Do not limit search by Parameters

Matrixes **SELECT** Do not limit search by Matrixes

Stations **SELECT** Do not limit search by Stations  Include stations that are missing lat/lngs

Available date range: Jan-01-1950 to Oct-29-2008

From: [dropdown] [dropdown] [dropdown]

To: [dropdown] [dropdown] [dropdown] [Clear Dates]

[Show QA Lookup](#)  
[Show Controlled Vocabulary](#)

**RETRIEVE DATA**  All Rows  First 1000 Records Only  First 30000 Records Only Record Count: 895146 Download Format: text  Include QA Data

Note: If number of records exceeds 30000, the data will be zipped and emailed to you.

Why is this site best viewed with Firefox?

# Programs Currently on CEDEN

\*Program information taken from CEDEN on 6-26-2012

- Aquatic Pesticide Monitoring Program
- Beach Watch
- Delta Monitoring
- Fish Mercury Project
- Grasslands Bypass Project
- Irrigated Lands Regulatory Program
- Lahontan Regional Water Boards Nonpoint Source Program
- PRISM Grant Program
- Prop 13
- Proposition 50
- Regional Monitoring Program for Water Quality
- Southern CA Coastal Water Research Program
- Southern CA Stormwater Monitoring Coalitions
- Southern California Bight Program
- Surface Water Ambient Monitoring Program
- Total Maximum Daily Load
- Toxic Substance Monitoring Program
- U.S. Forest Service, Inyo National Forest
- Ventura County Stormwater Monitoring Program
- Western Environmental Monitoring and Assessment Project.

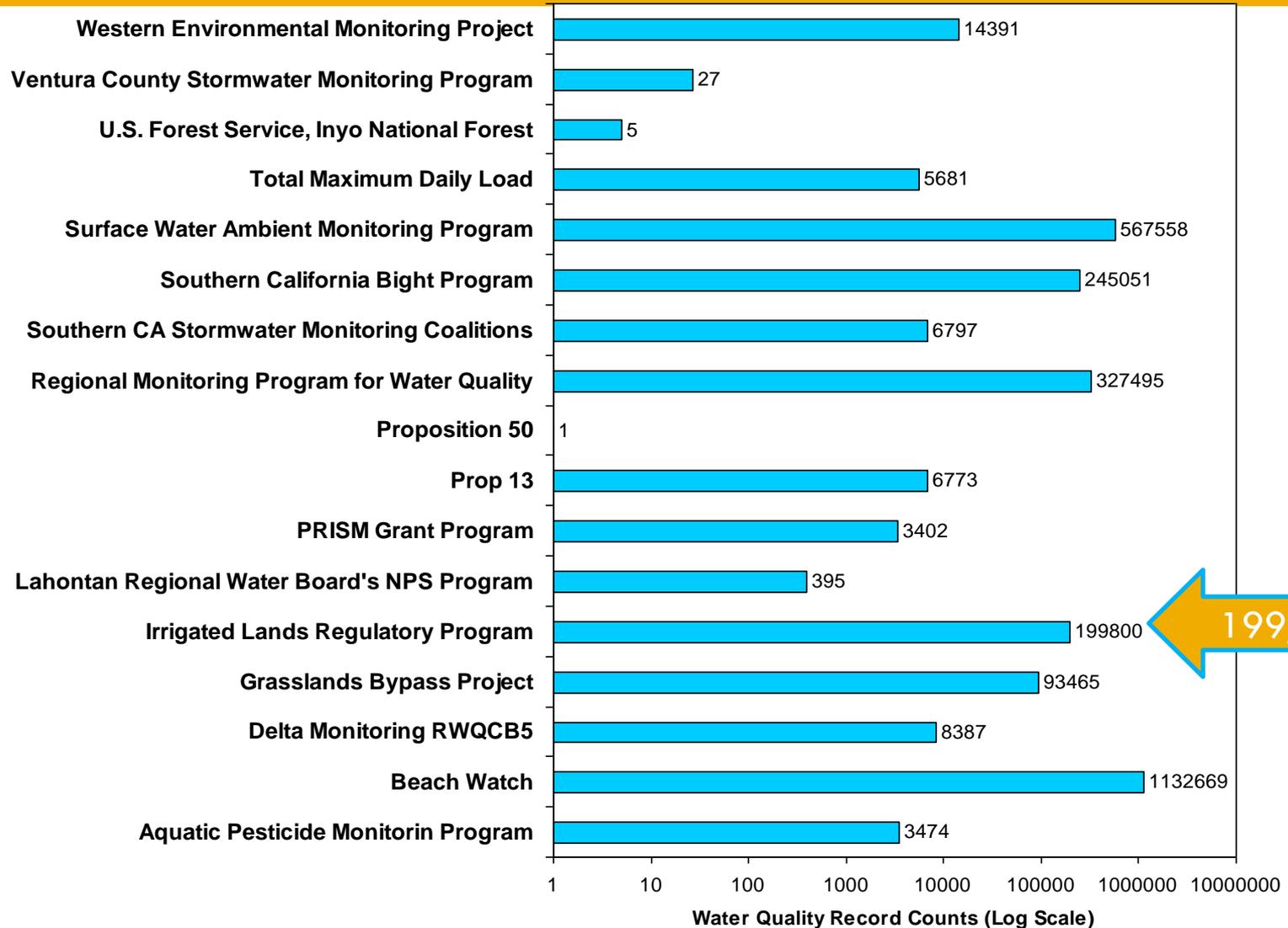
# Programs Currently on CEDEN

\*Program information taken from CEDEN on 6-26-2012

<b>Program</b>	<b>Water Quality</b>	<b>Toxicity</b>	<b>Tissue</b>	<b>Taxonomy (Benthic)</b>
<b>Aquatic Pesticide Monitoring Program</b>	X	X		
<b>Beach Watch</b>	X			
<b>Delta Monitoring RWQCB5</b>	X	X		
<b>Fish Mercury Project</b>			X	
<b>Grasslands Bypass Project</b>	X			
<b>Irrigated Lands Regulatory Program</b>	X	X		
<b>Lahontan Regional Water Board's Nonpoint Source Program</b>	X			
<b>PRISM Grant Program</b>	X			
<b>Prop 13</b>	X			
<b>Proposition 50</b>	X			
<b>Regional Monitoring Program for Water Quality</b>	X	X	X	
<b>Southern CA Coastal Water Research Program</b>				X
<b>Southern CA Stormwater Monitoring Coalitions</b>	X	X		X
<b>Southern California Bight Program</b>	X			
<b>Surface Water Ambient Monitoring Program</b>	X	X	X	X
<b>Total Maximum Daily Load</b>	X	X	X	
<b>Toxic Substance Monitoring Program</b>			X	
<b>U.S. Forest Service, Inyo National Forest</b>	X			
<b>Ventura County Stormwater Monitoring Program</b>	X			
<b>Western Environmental Monitoring and Assessment Project</b>	X			

# Water Quality Record Counts

\*Count information taken from CEDEN on 6-26-2012 and does not include QA data



# References

- Data Checker Page
  - ▣ <http://ftp.mpsl.mlml.calstate.edu/CVRDCupload.php>
- CV RDC LookUp Lists
  - ▣ [http://ftp.mpsl.mlml.calstate.edu/CVRDC\\_LookupLists.php](http://ftp.mpsl.mlml.calstate.edu/CVRDC_LookupLists.php)
- CV RDC Home Page
  - ▣ [http://mlj-llc.com/cv\\_rdc.html](http://mlj-llc.com/cv_rdc.html)
- CEDEN Query Tool
  - ▣ <http://www.ceden.us/AdvancedQueryTool>
- ILRP Data Management Page
  - ▣ [http://www.waterboards.ca.gov/centralvalley/water\\_issues/irrigated\\_lands/electronic\\_data\\_submission/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/electronic_data_submission/index.shtml)

# Questions?

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