Big Valley Rancheria



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What Sort of Data does Big Valley Collect?

- Water quality parameters from Clear Lake – this is measured by a portable unit and staff write the measurements in a data sheet
- Pesticide monitoring data sampling tules, water and soil for pesticide residue – staff submits samples to a lab that sends lab reports back to the Tribe

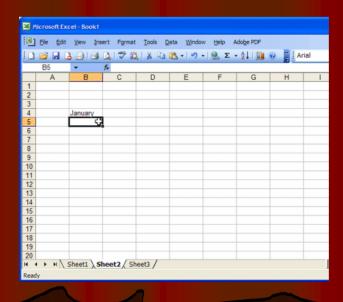
What Sort of Data does Big Valley Collect, continued?

- Data from monitoring wells sent off to lab plus some in house analysis
- Safe Drinking Water Act monitoring of our 2 drinking water wells – sent off to lab
- Lead Testing Tribal member for lead exposure

Previous Storage Habits

- File Cabinets
- Excel Spread Sheets
- Notebooks
- Field sheets





Issues with Previous Storage



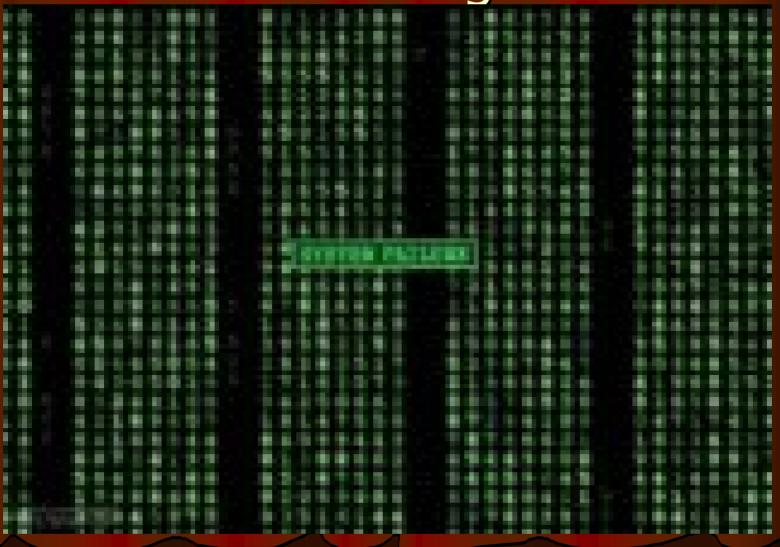
- How to analyze data
- How to track information
- Not stored in useable format
- Spread out everywhere

How it was resolved?

- Network Exchange grant allowed us to reformat our data into the STORET template
- Eric Wilson
- Team Effort
- Training, Training, Training



Submitting Data



PROJECTS

Project ID	roject ID Name		Duration	Purpose	
CLM	Clear Lake Monitoring		On Going	Monitoring Clear Lake	
SW	Storm Water Drain	12/4/2007	On Going	Storm Drain Monitoring	

STATIONS

Stat ion ID	Station Name	Pri ma ry Typ e	Latitu de	Longit ude	Geop ositio ning Metho d	Geop ositio ning Datu m	S t a t e	Co unt y	Station Description
BV CL1	LAKE1	Lak e			028	NAD8 3		Lak e	
BV CL2	LAKE 2	Lak e	39.01 28584	122.53 05309	028	NAD8 3	C A	Lak e	75ft off end of lands end, next to shore line
BV CL3	LAKE 3	Lak e	39.01 36955	122.53 05852	028	NAD8 3	C A	Lak e	Slightly South of Lands end Site

RESULTS

Proje ct ID	Stati on ID	Activity ID	Med ium	Activity Type	Activity Category	Activit y Start Date	Activity Start Time	Activit y Start Time Zone
CLM	BVCL 2		Wat er	Field Msr/Obs	Routine Msr/Obs	11/28/2 007	9:39 AM	PST
CLM	BVCL 2		Wat er	Field Msr/Obs	Routine Msr/Obs	11/28/2 007	9:39 AM	PST
CLM	BVCL 2		Wat er	Field Msr/Obs	Routine Msr/Obs	11/28/2 007	9:39 AM	PST



WQX XML Generation

Organization ID

Org. Formal Name

Org. Desc.

Contact Person

Contact Phone

Contact Fmail

Organization Street

Organization City

Organization State

Organization ZIP

Organization Country

Organization County

Big Valley Rancheria Band of Pomo Indians					
Sarah Ryan					
707-263-3924					
sryan@big-valley.net					
2726 Mission Rancheria Road					
Lakeport					
CA					
95453					
US					

XML

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- <MonitoringLocation>

    - <MonitoringlocationIdentity>

     <MonitoringLocationIdentifier>SW</MonitoringLocationIdentifier>
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     <MonitoringLocationTypeName>Well</MonitoringLocationTypeName>
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   </MonitoringLocationIdentity>
 - <MonitoringLocationGeospatial>
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     <LongitudeMeasure>-122.533825/LongitudeMeasure>
     <HorizontalCollectionMethodName>GPS-Unspecified

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/HorizontalCoordinateReferenceSystemDatumName>
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     <StateCode>CA</StateCode>
     <CountyCode>033</CountyCode>
   </MonitoringLocationGeospatial>
  </MonitoringLocation>
_ 21--
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    + + + + + + + + + + + + + + + + + + +
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- <Activity>
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     <activityTypeCode>Sample-Routine</activityTypeCode>
     <ActivityMediaName>Water</ActivityMediaName>
     <ActivityStartDate>2007-06-27</ActivityStartDate>
   - <ActivityStartTime>
       <Time>09:20:00</Time>
       <TimeZoneCode>PDT</TimeZoneCode>
     </ActivityStartTime>
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   </ActivityDescription>
 - <ActivityLocation>
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     <LongitudeMeasure>-122.533825/LongitudeMeasure>
     <HorizontalCollectionMethodName>GPS-Unspecified 
     <HorizontalCoordinateReferenceSystemDatumName>NAD83
   </ActivityLocation>
 - <SampleDescription>
     <!-- Sample Collection Method is required when Activity Type Code contains the word "Sample" -->
   - <SampleCollectionMethod>
       <MethodIdentifier>SCM 1</MethodIdentifier>
       <MethodIdentifierContext>Big Valley Rancheria Drinking Water Quality Assurance Program Plan (QAPP)
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Some benefits of our new data management:

- We've had to review all our sampling sites and some have been eliminated or renamed. All have been given lats and longs
- We are using a version of the template (Excel based) to keep track of all our maps, important documents, books, assessments and other studies

Big Valley's Network Information Grants

- Received a One Stop grant in 2004
 - Objective: Develop a node to submit our environmental data
 - <u>Tasks</u> Review data collection of Tribe. Determine other local Tribes' involvement. Produce Data Management QAPP. Develop node. Have a successful data submission.
 - Obstacles Complicated technology that was not easily understood by staff. Lots of delays including going through 2 Consultants to get the work done. Confusion about SDWIS data and Ambient Water Quality data – difficulties getting anything to "fit" into the WQX format; characteristics and procedure codes didn't match.

Big Valley's Network Information Grants

- Received a Network Exchange Grant in 2007
 - Objective: Regular data submissions, including from local Tribes
 - <u>Tasks</u> Complete metadata for all BVR sampling projects and stations. Develop flow configuration documents for each type of data submission. Data migration from STORET to XML for WQX. Mentor other local Tribes to submit data through node.
 - Larger goals Be able to submit data without a consultant.
 Have translation software that can handle our sampling
 parameters yet still be acceptable to WQX (so it won't be
 thrown back as an error). Mentor local Tribes to use WQX
 template with 'acceptable sampling information' so that they
 are responsible for their own data and it can be successful
 submitted through BVR's node. Develop website that has
 realtime data and showcases environmental data collection.

Tips

- Find your data
- Organize your data
- Set up your template
- Find a friend.

