

SVGMD Board Meeting

Well Inventory Status



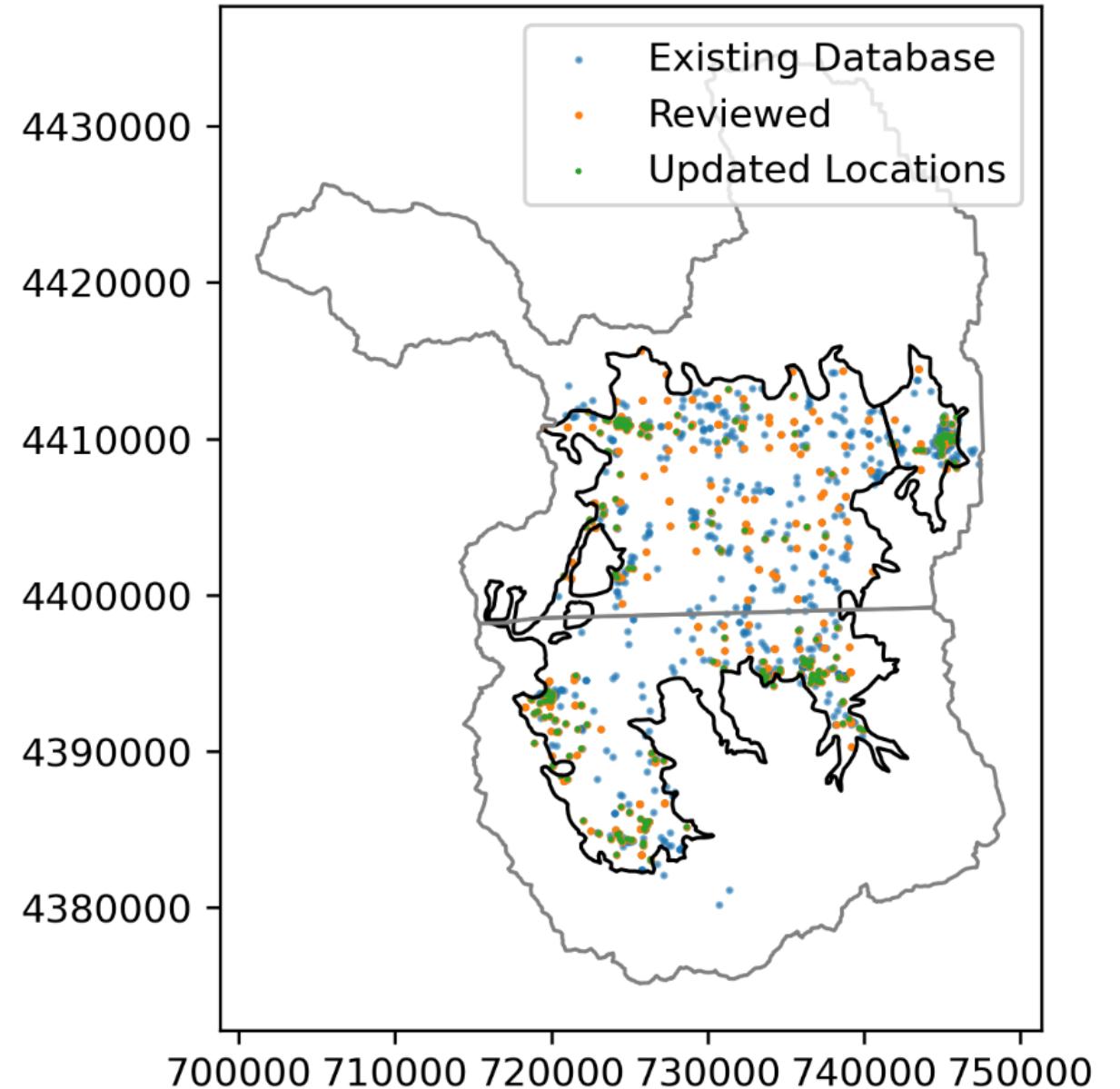
LARRY WALKER
ASSOCIATES
science | policy | solutions

Well Inventory Status

1. Compiled well information from the DMS and Well Completion Reports(WCRs) from the DWR database for wells located within or near the B118 Basin Boundary.
2. The dataset included wells with both high (verified coordinates) and low (e.g., township-range-section only) location accuracy, based on prior GSP classification. Wells with low accuracy were filtered for further manual review.
3. Used PDF WCRs and GIS tools to refine locations and update construction details. Adjusted coordinates based on WCR maps and descriptions as a part of the manual review.
4. Identified parcels likely to contain undocumented wells, especially Rural residential and irrigated agricultural lands and Requested additional records from Plumas and Sierra Counties.
5. Received well logs from Plumas and Sierra county requiring manual review

Spatial Mapping of Well Inventory Status

Categories	Well Count
Total Well from DMS	1221
Wells Needed Secondary Review	574
Well location corrected based on Manual Review	258
Wells without well log/ Insufficient Information	316



Sample Well Completion Report (WCR)

Snapshot of Google Earth Pro used for Identifying the well locations

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in
No. 207703

Notice of Intent No. _____
License No. or Date 7-28-88
State Well No. _____
Other Well No. 20N14E24

(2) LOCATION OF WELL (See instructions):
County SIERRA Owner's Well Number IV
Well address if different from above OLD TRUCKEE RD
Township 20N Range 14E Section 24
Distance from cities, roads, railroads, fences, etc. WELL IS ON N. SIDE OF HOUSE 1 MI S. OF SIERRAVILLE & 1/2 MI ON OLD TRUCKEE RD. APPROX 30' FROM HOUSE.

(3) TYPE OF WORK:
New Well Deepening
Reconstruction
Reconditioning
Horizontal Well
Destruction (Describe destruction materials used procedures in Item 12)

(4) PROPOSED USE:
Domestic
Irrigation
Industrial
Test Well
Stock
Municipal
Other

(5) EQUIPMENT:
Rotary Reverse Cable Air Other Bucket

(6) GRAVEL PACK:
Yes No Size _____ Diameter of bore _____ Packed from _____

(7) CASING INSTALLED:
Steel Plastic Concrete Type of perforation or size of screen _____

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	46	6 7/8	1/4			
35	55	4 1/2	80 PVC	35	55	1/4 x 4"

(8) PERFORATIONS:
Type of perforation or size of screen _____

(9) WELL SEAL:
Was surface sanitary seal provided? Yes No If yes, to depth 20 ft.
Were strata sealed against pollution? Yes No Interval _____ ft.
Method of sealing NEAT CMT.

(10) WATER LEVELS:
Depth of first water, if known 10 ft.
Standing level after well completion 10 ft.

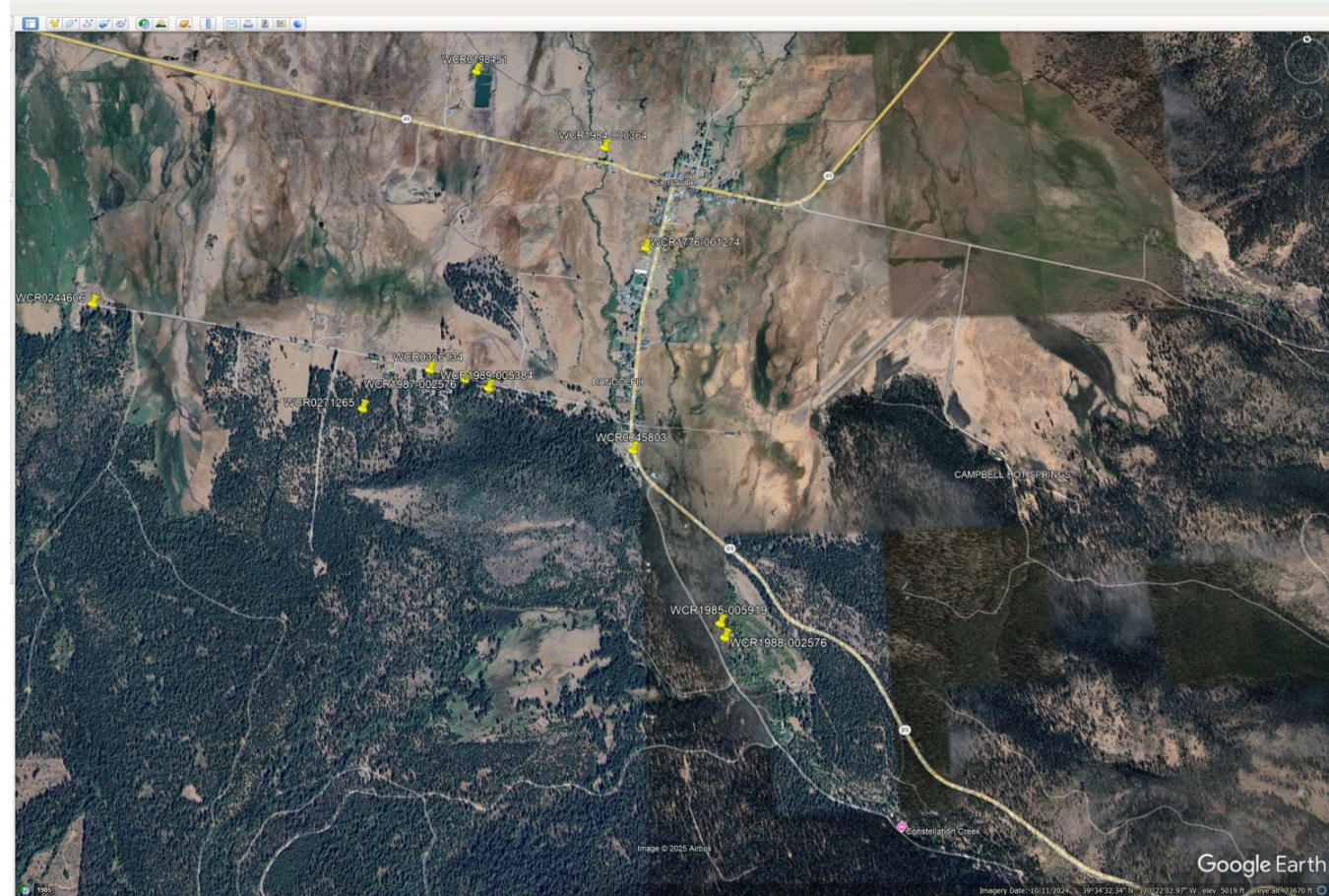
(11) WELL TESTS:
When well first tested _____

(12) WELL LOG: Total depth 65 ft. Depth of completed well 55 ft.
from ft. to ft. Formation (Describe by color, character, size or material)
0 - 4' Top soil & Boulders
4 - 65' Boulders SAND & GRAVEL

WELL LOCATION SKETCH:
SIERRAVILLE
1 MI
OLD TRUCKEE RD
S
N

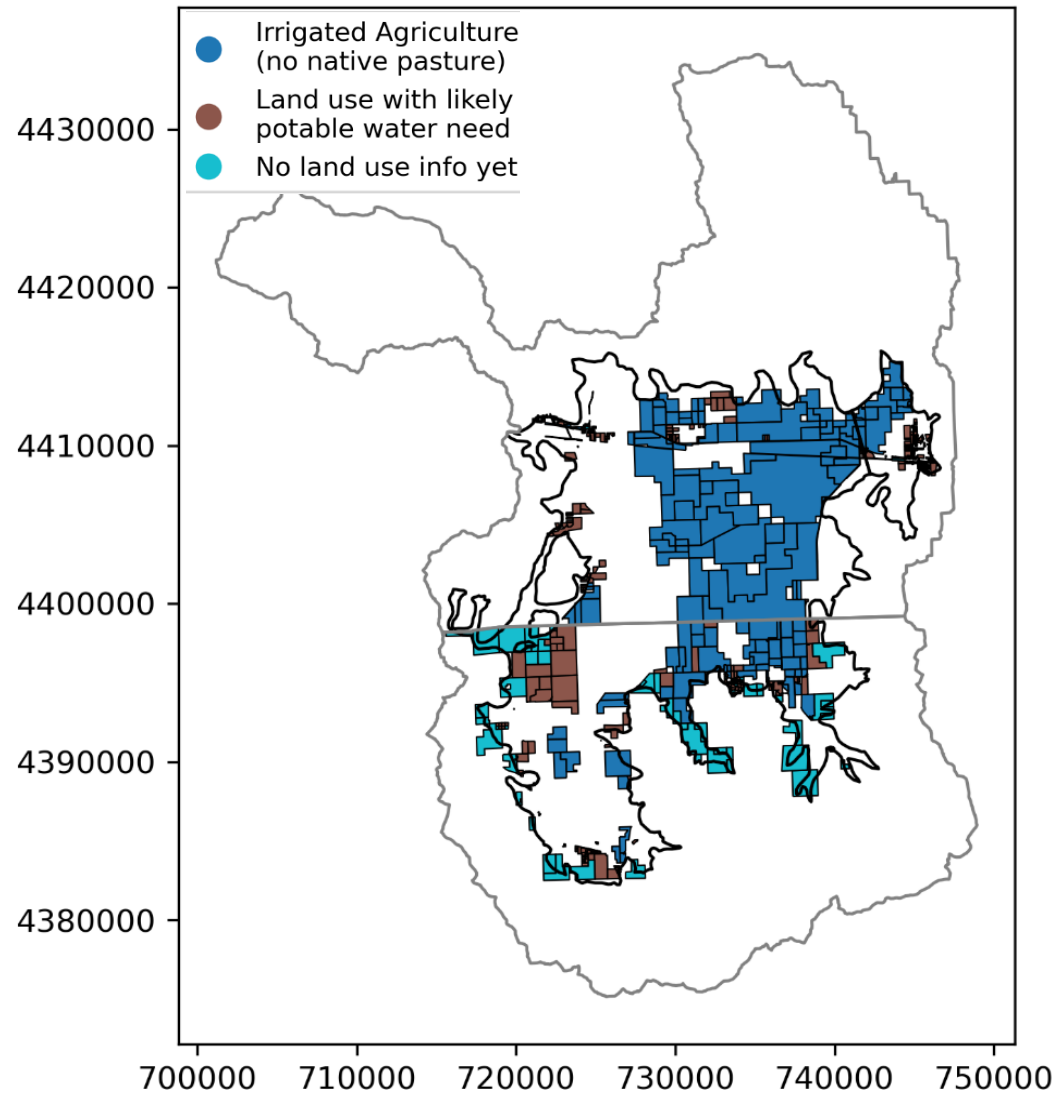
WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed Yulian P. Dizon (Well Driller)

Work started 7-27-10 Completed 7-28-10

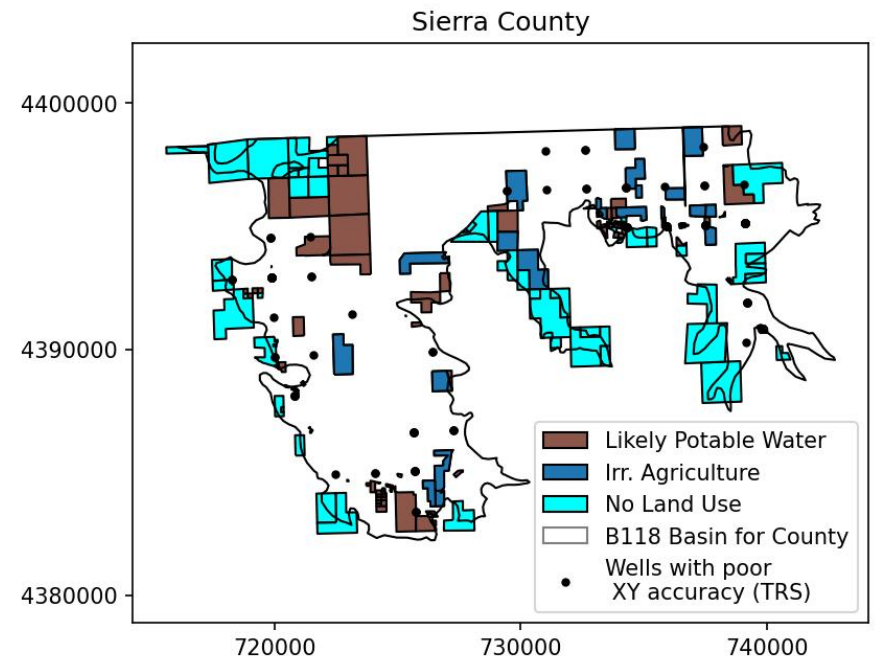
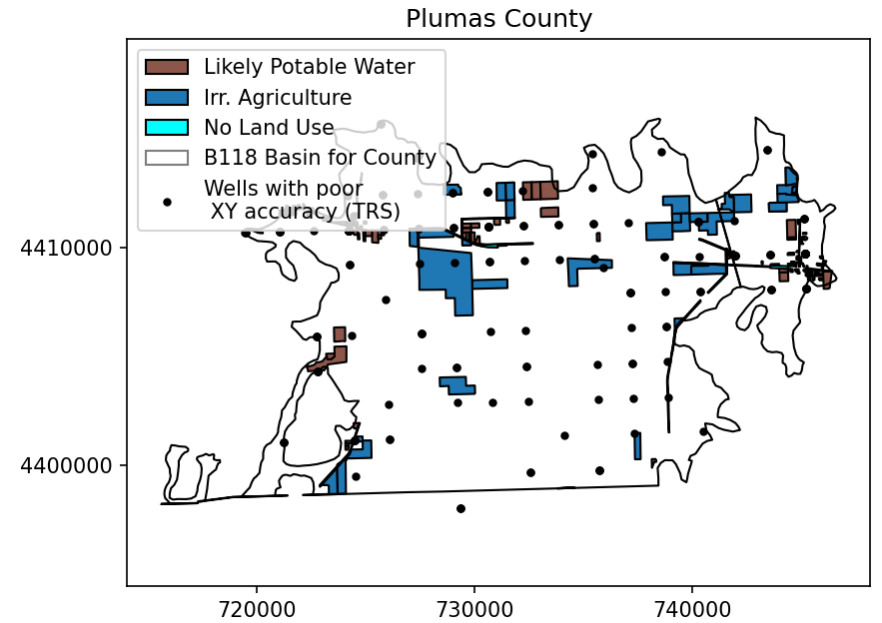


Yellow pinpoint in the map shows the locations identified from the maps and description in the WCR

Map of assessor parcels with land use that may potentially have a well



Parcels to review



Snapshot of data received from the County on additional information on Septic/Well

1	APN	APNNODASH	Landuse	Parcel_AC	Well Log #:	Septic Permit (Y/N):
2	010-010-037	10010037	Rural with Residence	159.02708	781707	
3	010-010-045	10010045	Single-Family Residential	79.36128	345351	
4	010-010-046	10010046	Single-Family Residential	79.277368		Yes *states existing well
5	010-010-053	10010053	Single-Family Residential	81.728404		Yes *states existing well
6	010-040-002	10040002	Rural with Residence	19.844438		Yes *states existing well
7	010-040-003	10040003	Single-Family Residential	20.156272		Yes *states existing well
8	010-040-005	10040005	Single-Family Residential	19.835838		Yes *states existing well
9	010-040-006	10040006	Single-Family Residential	12.134747		Yes
0	010-040-009	10040009	Single-Family Residential	5.057346		None
1	010-040-010	10040010	Single-Family Residential	5.116094		Yes
2	010-040-011	10040011	Single-Family Residential	19.900722	8366	
3	010-040-036	10040036	Rural with Residence	20.208233	06-01162	
4	010-040-049	10040049	Single-Family Residential	7.005393		Yes *states existing well
5	010-040-055	10040055	Single-Family Residential	13.165185	No Documents	
6	010-060-106	10060106	Rural with Residence	80.334737	No Documents	
7	010-100-016	10100016	Single-Family Residential	10.452255	No Documents	
8	010-110-001	10110001	Single-Family Residential	0.620468		Yes
9	010-110-002	10110002	Commercial Improved	0.305213		None
0	010-110-003	10110003	Single-Family Residential	1.002092		Yes *states existing well
1	010-110-005	10110005	Commercial Improved	0.623439		None

Sample of Additional well logs from the County

Page 1 of 1
 Owner's Well No. 1
 Date Work Began 08-14-17 Ended 08-17-17
 Local Permit Agency Plumas Co. Env. Health
 Permit No. 17-00457 Permit Date 07/20/2017

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
 No. 318273

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO. / STATION NO.

LATITUDE _____ LONGITUDE _____

APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION VERTICAL HORIZONTAL ANGLE (SPECIFY)
 DRILLING METHOD Air Rotary FLUID H2O/foam

DEPTH FROM SURFACE		DESCRIPTION <i>Describe material, grain size, color, etc.</i>
Fl	to Fl	
0	2	brown sand
2	23	brown clay and dg
23	39	tan clay and dg
39	55	brown clay
55	70	red clay
70	100	light grey clay
100	115	green clay
115	210	green clay and granite
210	220	blue granite and brown dg
220	260	green granite
TOTAL DEPTH OF BORING <u>260</u> (Feet)		
TOTAL DEPTH OF COMPLETED WELL <u>257</u> (Feet)		

WELL OWNER

WELL LOCATION

Address 1185 Frenchman Lake Rd
 City Chicoot CA
 County Plumas
 APN Book 010 Page 025 Parcel 017
 Township _____ Range _____ Section _____
 Latitude _____ Longitude _____

NORTH

WEST _____ EAST _____

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (√)

NEW WELL
 MODIFICATION / REPAIR
 Deepen
 Other (Specify) _____

DESTROY (Describe Procedure and Materials Under "GEOLOGIC LOG")

PLANNED USES

WATER SUPPLY

Domestic Public
 Irrigation Industrial

MONITORING
 TEST WELL
 CATHODIC PROTECTION
 HEAT EXCHANGE
 DIRECT PUSH
 INJECTION
 VAPOR EXTRACTION
 SPARGING
 REMEDIATION
 OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 200 (Fl.) BELOW SURFACE
 DEPTH OF STATIC _____
 WATER LEVEL 60 (Fl.) & DATE MEASURED 08/17/17
 ESTIMATED YIELD* 26 (GPM) & TEST TYPE Rig Air
 TEST LENGTH 1 (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
* May not be representative of a well's long-term yield.

Next Steps

- Complete manual review of remaining well logs from the county and integrate new data.
- With the updated well inventory perform Well vulnerability analysis to assess risks to domestic and ag wells from declining groundwater levels.