



4th Quarter Numbers 2014 (October-December)

- 41 Variances
 - 15 for setback distances
 - 5 for permits
 - 5 for plugging MW in place
 - 5 for well construction (fiberglass casing, sampling port in SA2, below grade completion, etc.)
 - 11 for plugging issues (pump in well, etc.)



- 28 Casing depth requests
- 322 Sunshine Requests
- 1597 Incoming Calls
- 520 Incoming Emails
- 3258 Pieces of Mail Received
- 8 Education Presentations
- 33 Administrative Cases Assigned
- 30 Administrative Cases Resolved
- 23 Field Cases Assigned
- 12 Field Cases Resolved

2014 Year End Record Totals

- Water Well 2,999
- Pump 1,347
- Heat Pump 622
- Monitoring Well 1,281
- Abandonment 1,828
- Reconstruction 128

Other Section Items

- Online Testing for restricted permit
- Radius search is live
- Add or replace vehicles now available (MOWELLS)
- GeoStrat Update to include uncertified wells (location errors)
- Responsible party letter will be mailed by March 1.
- Renewal for all permits will be October 1, 2015.
- County Construction permit (Greene, Christian, Jefferson)

- High Yield wells not currently being assessed an abandonment fee.
- Reminder--Board Members are required to submit Personal Financial Disclosure Statements to the MO Ethics Commission by May 1, 2015.

Lawrence County Water Quality Study

An examination of the groundwater quality in Lawrence County within an area that is adjacent to the impacted areas within Newton County. An approximate 5.5 square mile area in Lawrence County was chosen to sample the groundwater for lead (Pb) and cadmium (Cd). The area chosen was adjacent to known impacted areas within Newton County and contained several known historic mine sites where lead ores had been mined and processed. The location is within the Spring River Watershed, south of the Center Creek branch of the Spring River and North of Pierce City and the Ritchie Fault.

Study wells

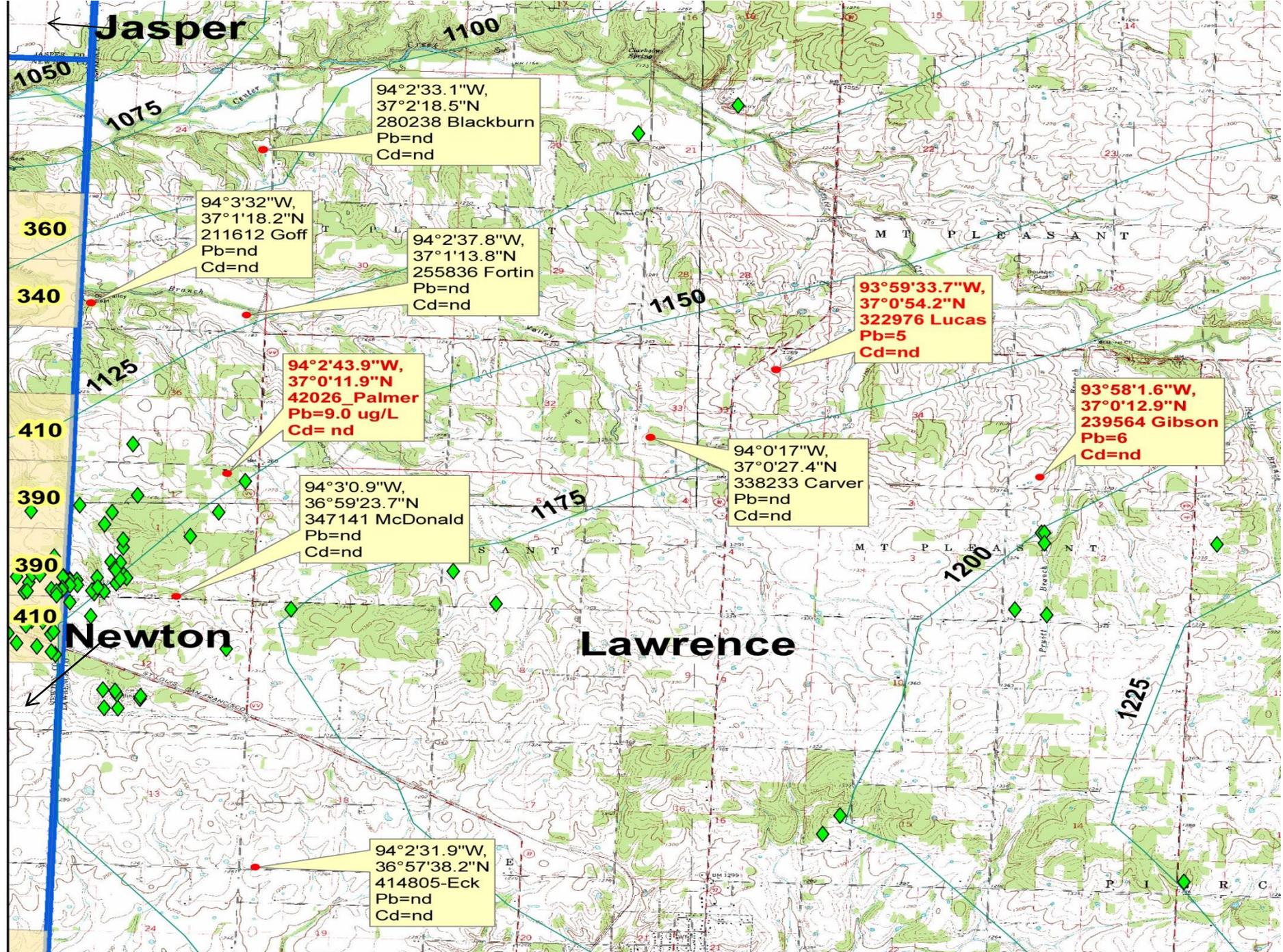
36 wells were originally selected in the study area. Of those, 20 well records had current owner information and sufficient data that wells could be located for sampling. Nine of the well owners consented to being included in the study and had their wells sampled for lead and cadmium.

Well Data

The wells were chosen based on their location in relation to mine sites and regional groundwater flow. The wells were open either to the Springfield Plateau aquifer only, or to both the upper (Springfield) aquifer and the lower (Ozark) aquifer. Casing amounts ranged from 84 to 126 feet, total depths ranged from 240 to 595 feet. The ages of the wells ranged from 3 to 25 years.

Preliminary Results

- The samples were analyzed using the standard EPA 200.7 method.
- All nine samples were below the detection limit for cadmium which is 0.5 ug/L or ppb.
- Three of the samples had levels above the detection limit for lead which is 5 ug/L or ppb.
- None of the samples exceeded the EPA Maximum Contaminant Level (MCL) for lead which is 15 ug/L or ppb.



Jasper

1075

1100

1050

360

340

410

390

390

410

1125

1150

1175

1200

1225

Newton

Lawrence

94°2'33.1"W,
37°2'18.5"N
280238 Blackburn
Pb=nd
Cd=nd

94°3'32"W,
37°1'18.2"N
211612 Goff
Pb=nd
Cd=nd

94°2'37.8"W,
37°1'13.8"N
255836 Fortin
Pb=nd
Cd=nd

93°59'33.7"W,
37°0'54.2"N
322976 Lucas
Pb=5
Cd=nd

94°2'43.9"W,
37°0'11.9"N
42026 Palmer
Pb=9.0 ug/L
Cd= nd

93°58'1.6"W,
37°0'12.9"N
239564 Gibson
Pb=6
Cd=nd

94°3'0.9"W,
36°59'23.7"N
347141 McDonald
Pb=nd
Cd=nd

94°0'17"W,
37°0'27.4"N
338233 Carver
Pb=nd
Cd=nd

94°2'31.9"W,
36°57'38.2"N
414805-Eck
Pb=nd
Cd=nd

OWNER	REF NUMBER	CASING	TOTAL DEPTH	Sec-Twn-Rng	SURFACE ELEV	AQUIFERS	Pb (ug/L)	Cd (ug/L)
ECK	414805	84	240	18-26-28	1270	upper	ND	ND
BLACKBURN	280238	126	538	24-27-29	1210	Open to both	ND	ND
FORTIN	255836	80	343	25-27-29	1180	Open to both	ND	ND
GOFF	211612	84	500	25-27-29	1210	Open to both	ND	ND
MCDONALD	347141	105	490	1-26-29	1260	Open to both	ND	ND
CARVER	338233	105	490	33-27-28	1280	Open to both	ND	ND
PALMER	42026	85	557	1-26-29	1275	Open to both	9	ND
GIBSON	239564	126	415	35-27-28	1310	Open to both	6	ND
LUCAS	322976	105	595	33-27-28	1290	Open to both	5	ND

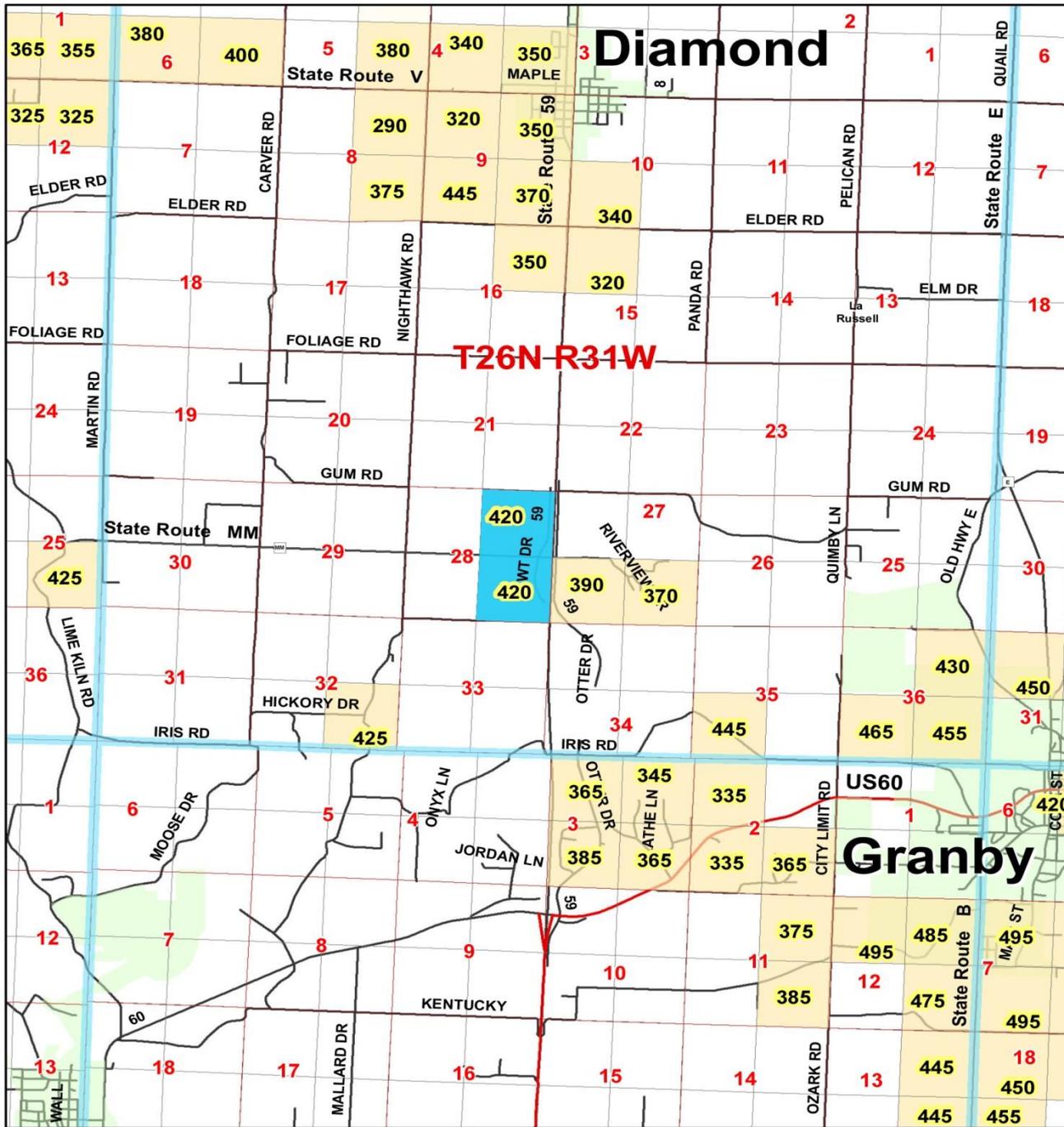


MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Special Area 2

Jasper / Newton Counties

Impacted Areas Map Update



NE ¼ & SE ¼
 Sec. 28, Twn 26N
 Rng 31W

First Sample:
 Lead 87 ppb
 Cadmium 1.2 ppb

Second Sample:
 Lead 20 ppb
 Cadmium 1.2 ppb

