

The Future of the Connection Newsletter

Beginning in 2018, *The Connection* newsletter will only be available online. Also, this issue is the second of three that will be available in 2017, as we are moving to publishing the newsletter three times a year.

The newsletter is available online at dnr.mo.gov/geology/geosrv/wellhd/wellpub.htm. You may view, download and print past issues of the newsletter from 2009 to present.

Everyone is encouraged to sign up to receive notifications from GovDelivery, our online notification service that notifies subscribers via email when the newsletter is available online. GovDelivery also provides notifications about Well Installation Board meetings, when items are added to the section's website, and about other topics related to water wells and drilling.

To get started, visit the Wellhead Protection section's webpage at dnr.mo.gov/geology/geosrv/wellhd/wellsanddrilling.htm and follow these steps: 1. Click on the multi-colored "Get Updates on this Issue" envelope. 2. Enter your email address or sign in using your preferred social media account. 3. Follow the prompts by providing your email address and establish a password.



Questions regarding this feature should be directed to 573-368-2165.

USDA Cost Share Wells

The U.S. Department of Agriculture (USDA) Service Center's Natural Resources Conservation Service and Farm Service Agency offer several programs to assist or share in the cost of a new water well. Assistance can include the drilling of a new livestock well or the deepening of an existing well, depending on the criteria established by USDA.

When well owners wish to participate in the cost share program, well registration records submitted by the driller are given top priority by the Wellhead Protection Section, and a certification letter is faxed to the appropriate USDA Farm Service Agency when the well is certified.

To assist the well owner and Wellhead Protection Section staff in this effort, the drilling contractor should check the cost share box on the well registration form. This helps Wellhead Protection Section staff in ensuring the well owner receives their well certification before USDA deadlines are reached.

Staff would like to thank those contractors who already are clearly marking the records, as this greatly assists well owners and our staff.

Well Installation Board News

The Well Installation Board cancelled the May 19, 2017, meeting. The next regular session will be held August 18, 2017, at 10 a.m. at the Missouri Geological Survey, 111 Fairgrounds Road, Rolla. Topics to be discussed are legislative updates, fiscal year end numbers, Groundwater Protection Fund balance and projection, and section updates. The department will be reviewing its regulations as stipulated in the Governor's Executive Order 17-03.

Permit Renewal

DON'T FORGET

– October 1 is the due date for all water well, pump, heat pump, and monitoring well permits. Permits can be renewed online at dnr.mo.gov/mowells.

2017 OCTOBER						
SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

A permitted contractor must renew their permit before the expiration date. If the permit is not renewed the permittee will have an additional 30 days, and a \$40 penalty fee per permit will be assessed. If the permit is not renewed within the 30 days, the permit will be cancelled, and the permittee must begin the process again to become a permitted contractor.

While Wellhead Protection Section staff attempt to notify permitted contractors about this renewal date, it is the contractor's responsibility to contact this office to renew a permit to operate in Missouri. For changes in company or address, contact Jeannie Hoyle at 573-368-2450 and the necessary form(s) will be faxed or mailed for completion.

Permit renewals begin August 15 each year. At permit renewal time, any outstanding violations must be resolved before a permit will be reissued. Regulation 10 CSR 23-1.105 states, "A permit will not be renewed if the permittee has any unresolved violations pending against his or her permit, unless a schedule to remedy the violations has been approved by the Division."

Please contact staff at 573-368-2165 regarding outstanding cases for missing forms or fees.

Fiscal Year 2017 Totals

Records Received

Water Wells.....	3425
Pumps	1340
Monitoring Wells.....	1456
Heat Pump.....	500
Abandonments.....	2526
Reconstruction.....	129
Total	9374

Online Submittals

Water Wells.....	155
Pump Records.....	160
Reconstruction.....	2
Abandonments.....	343
Heat Pumps	71
Monitoring Wells.....	284
Permit Renewals	365
Total	1380

New Permits Issued

Water Well Permits.....	22
Pump Permits	26
Monitoring Well Permits.....	42
Heat Pump Permits	8
Total	98

Tests Administered.....	29
Permits not Renewed.....	75
Apprentice Permits Issued.....	31
Permits Renewed.....	1167

Compliance and Enforcement

Probationary agreements	0
Administrative Cases Assigned	161
Field Cases Assigned.....	31
Administrative Cases Resolved	145
Field Cases Resolved.....	27
Administrative Letters Of Warning	126
Field Letters of Warning.....	21
Case Reminder Letters.....	320
Abandonment Database Letters	26
Certification Fee Letters	46
Late Fee Letters	144

Public Contacts

Incoming Mail	12,308
Outgoing Mail.....	11,464
Incoming Email	2625
Incoming Calls.....	6054
Outgoing Calls	3990
Sunshine Requests.....	502
Educational Presentations.....	46
Total	36,989

Miscellaneous

Variances issued.....	209
Casing Points Issued	153
Public Water Supply Notifications Received	107

GPS Locations

Accurate GPS locations are required for all wells constructed after January 1, 2006. Regulations require the location be submitted to the department in degrees, minutes and seconds (e.g., latitude 38°59'49.9"N, longitude 94°01'01.0" W).

Your GPS unit might be set to a decimal degree format, and while this is an accurate reading, the rule requires the GPS location be submitted in degrees, minutes and seconds. The location should be reported to one number after the seconds decimal point (e.g., 49.9").

If your GPS unit is not set to the correct format, please consult the unit's owner's manual to change the location display.

Liners in Public Wells

In many cases, a well may require the installation of a liner. Liners have many uses, such as holding back broken formations, sealing out problem areas, or preventing water quality issues associated with high static water levels in steel casing.

The Missouri Well Construction Rules (MWCR) address the installation of liners in domestic and multifamily wells. The construction standards for public wells are more stringent than those for domestic and multifamily wells. Public wells must be constructed according to Missouri Public Drinking Water Rules.

Community and non-transient non-community public wells must have engineering plans approved in advance, and the installation of a liner should be covered in the project's engineering plan. A potential issue arises when it is necessary or prudent to install a liner in a transient non-community public well. Transient non-community systems serving facilities such as motels, restaurants, stores, campgrounds, etc. do not usually require engineering plans.

Since the installation of liners is not covered in *Standards for Non-Community Public Water-Supplies*, contractors MUST contact the department's Public Drinking Water Branch Infrastructure Permits and Engineering Unit at 573-751-1127 for approval prior to installing a liner.

Wellhead Protection Section Online Directory

- Missouri Well Construction Rules:
sos.mo.gov/adrules/csr/current/10csr/10csr.asp#10-23
- The Department's Website: dnr.mo.gov
- The Wellhead Protection Section Website:
dnr.mo.gov/geology/geosrv/wellhd/wellsanddrilling.htm
- Online Well Information: dnr.mo.gov/mowells
- Wellhead Protection Section Email Address:
welldrillers@dnr.mo.gov
- Rules in Development:
dnr.mo.gov/geology/geosrv/rulesindevelopment.htm

Welcome Apprentice Contractors

The following individuals are now part of the Missouri Department of Natural Resources' permitted apprentice contractor community:

A to Z Pump Service – Clara Hunsaker
Ark-MO Well Drilling – Eric Hicks, Jeffrey Previtt
Atkisson & Son Pump – Evan Long
Environmental Works – Robert Traverson III,
Scott Norris, Ty Degase
John Seitz Well Drlg & Pump – William Seitz
Koch & Sons Water Wells – Colton Koch
Palmerston & Parrish – Ronald Davis, Ray Aufiero
Sunbelt Environmental – Christopher Schaefer
Wicker Well Drilling – Cody Wicker

Welcome Contractors

The following individuals are now part of the Missouri Department of Natural Resources' permitted contractor community:

APEX Companies – Eric Mueggenberg
ATC Group Service – Brittany Doty
Civil & Environmental Consultant – Tatyana Chuprikova
Crawfords Heating & Cooling – Robert Shampine
GHD – Nicholas Laskares
Groundwater & Environmental Svc – Samuel Adams,
Carolyn Fortney
Leggette Brashears & Graham – Brooks Bailey
Neal Harris Service Experts – Geoffrey Rader
Pettis County SWCD – Zachary Harding
Putnam County SWCD – Shane Salisbury
SEMS Inc – Roger Paulson
Suez Water/Advanced Solutions – John Aufderheide,
John Barber
Weaver Consultants – Andrew Limmer, Frank Barthol

Farewell

The people addressed below are no longer permitted to operate as contractors according to the Water Well Drillers Act and Missouri Well Construction Regulations:

Ark-MO Well Drilling – Perry Manley (Deceased)
R & S Well Drilling – Shirley Roberts (Deceased)

Plugging Public Water Supply Wells

The rules contained in 10 CSR 23-3.110, Plugging of Wells, do not outline the procedure necessary for plugging public water supply wells or high yield bedrock wells. Each plugging is considered on a case-by-case basis, and specific requirements are issued by Wellhead Protection Section (WHP).

Contractors are required to contact WHP to obtain a plugging specification letter before plugging any public water supply or high yield bedrock well.

It is anticipated that general specifications will be added to the rules for the plugging of these types of wells.

Until changes are in place, contact staff to obtain instructions and/or approval before plugging a public water supply well or high yield bedrock well.

Call Before You Drill (1-800-DIG-RITE)

The Missouri One Call System (MOCS) was established to protect underground facilities and assist excavators and utilities in complying with Missouri law (Sections 319.010 to 319.050 RSMo) and OSHA rules (1926.651), as they relate to identifying underground utility locations before excavation begins. Missouri law requires that any person making or beginning any excavation must notify MOCS at least three but not more than 10 working days in advance.

Excavation is any operation in which earth, rock or other material in or on the ground is moved, removed or otherwise displaced by means of any tools or equipment and includes drilling, well drilling, auguring, boring and driving.

Liability for repair of underground utilities and administrative penalties may apply to any excavator who does not notify MOCS and obtain information concerning the location of underground utilities. The notice of intent to excavate can be submitted to the notification center online using Internet Ticketing (ITIC) at mo1call.com or by calling 1-800-DIG-RITE (800-344-7483) or 811. Both phone numbers are toll free and are operated 24-hours a day, seven days a week.

The notice of intent to excavate includes the items listed on the Missouri One Call System location request forms for telephone or fax contact. Copies of the request forms and other information about MOCS are available online at mo1call.com.

Radius Search

The Wellhead Online Services (dnr.mo.gov/mowells) tool offers a latitude and longitude radius search. Located at the top of the page, one can use the general search or the latitude and longitude radius search. This allows contractors and members of the public to locate any well in the WIMS database surrounding a specific location. The area of the search can be increased by quarter-mile increments up to a distance of two miles. The search also can be refined by selecting the well type the user wants to locate.



WIMS Search

Select type of search

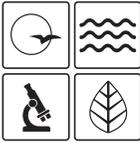
General Search Lat/Long Radius Search

Latitude Degrees: Latitude Minutes: Latitude Seconds:

Longitude Degrees: Longitude Minutes: Longitude Seconds:

Miles Radius: Well Type:

Note: The search will look for wells drilled after November 1987 only. To search by Owner Name use the owner at the time the well was drilled. For information on wells drilled before 1987, please contact the Department's Water Resources Center at 573-368-2175. Any Owner with a well or wells capable of producing 100,000 gallons of water per day (70 gallons per minute or more) must register with the Water Resources Center as Major Water User. Please call 417-891-4300 to register as a Major Water User.



Missouri Department of Natural Resources
Missouri Geological Survey
Wellhead Protection
PO Box 250
Rolla, MO 65402-0250

PRSR STD
U.S. POSTAGE PAID
JEFFERSON CITY, MO
PERMIT NO. 440

Wellhead Protection Section Staff
573-368-2165

Staff Website: dnr.mo.gov/geology/geosrv/wellhd/job.htm
Well Online Services: dnr.mo.gov/mowells/

- **Kyle Rollins – Section Chief**
Management of section, regulations, policy and rulemaking.
573-368-2171 • kyle.rollins@dnr.mo.gov
- **Justin Davis – Investigation and Remediation Unit Chief**
Field investigation and remediation, variances, casing depths, well construction and abandonment information.
573-368-2167 • justin.davis@dnr.mo.gov
- **Karen Smith – Processing Unit Chief**
Information regarding pending enforcement letters, permitting and testing.
573-368-2174 • karen.smith@dnr.mo.gov
- **MaLinda Bassett – Section Secretary**
General information, fee letters, requests for forms and publications.
573-368-2165 • malinda.bassett@dnr.mo.gov
- **Andrew Combs – Environmental Specialist**
Field investigation, well plugging, heat pump records.
573-368-2159 • andrew.combs@dnr.mo.gov
- **Airin Haselwander – Geologist**
Public Water Systems, pilot holes, casing depths and variances.
573-368-2196 • airin.haselwander@dnr.mo.gov
- **Eric Hohl – Technical Assistant**
Water well construction and certification information and abandonment registration information.
573-368-2168 • eric.hohl@dnr.mo.gov
- **Jeannie Hoyle – Permitting Clerk**
Permitting, testing and apprentice information.
573-368-2450 • jeannie.hoyle@dnr.mo.gov
- **Lori Miller – Correspondence Clerk**
Matching of well and pump records, correspondence requesting information.
573-368-2318 • lori.miller@dnr.mo.gov
- **Brad Mitchell – Geologist**
Field investigation, well construction information, variances and casing depths.
573-368-2116 • brad.mitchell@dnr.mo.gov
- **Dan Nordwald – Technical Assistant**
Field investigation, well plugging, well construction, abandonment information.
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- **Matt Parker – Geologist**
Field investigation, well construction, Special Area 2, variances and casing depths.
573-368-2170 • matt.parker@dnr.mo.gov
- **Amber Steele – Environmental Specialist**
Regulations, enforcement, policy, rulemaking and legislation.
573-368-2115 • amber.steele@dnr.mo.gov
- **Vacant – Office Support Assistant**
General information, data entry and receptionist.