

# Land Reclamation Information System (LRIS) Success



Tuesday June 6, 2023

Bill Zeaman, Missouri's Chief of the  
Industrial and Metallic Minerals Mining Unit  
Land Reclamation Program

# Land Reclamation Information System LRIS

- Before LRIS – Access database, Excel spreadsheets and paper filing/scanning.
- 276 active permits
- 724 active sites



# Land Reclamation Information System

## LRIS

- Before LRIS – Access database, Excel spreadsheets and paper filing/scanning.
- Background
  - 8 years in the Points Grading System
  - 2 Years of planning

# Land Reclamation Information System

## LRIS

- Before LRIS – Access database, Excel spreadsheets and paper filing/scanning.
- Background
  - 8 years in the Points Grading System
  - 2 Years of planning
    - Outside Contractor
      - Information Resource Group, Inc. (IRG)
      - Work Flow Process
      - \$40K

# Land Reclamation Information System LRIS

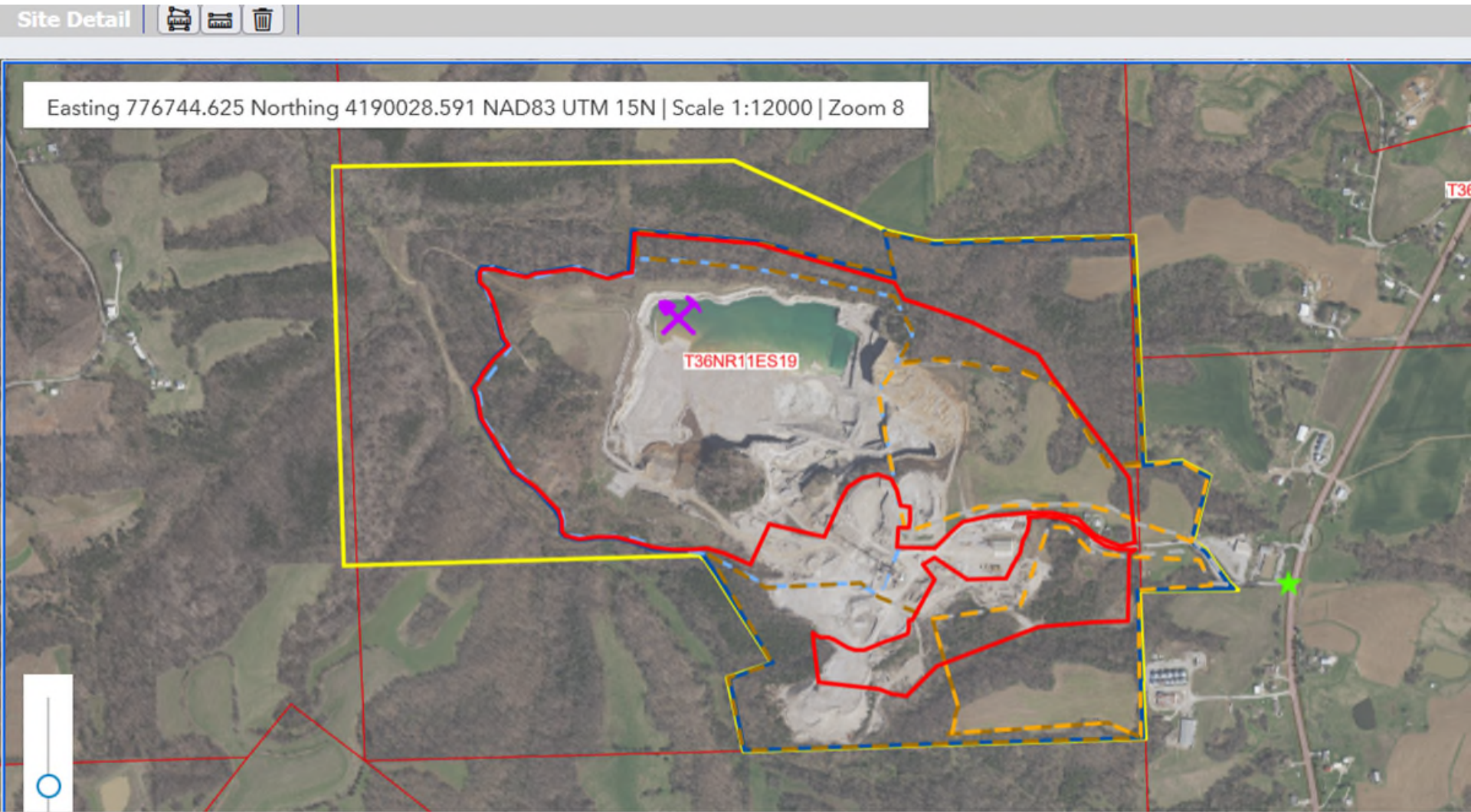
- Drop Everything you are doing

# Land Reclamation Information System LRIS

- Work with State – Information Technology Staff
- Rough Start
  - Change all Site Numbers
  - Time Commitments
  - Upload Mine Plans
  - Upload Bonding Documents
  - Company Information Forms



- Additional Time Commitment – Mapping –  
Over 700 sites – Four Staff Members
- 16,187 Hectares of Permitted Land



# Missouri Gateway for Environmental Management (MoGEM)

- 80% Rule



# Missouri Gateway for Environmental Management (MoGEM)

- Register for an account in Missouri Gateway for Environmental Management (MoGEM)
- To Access MoGEM go to <https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem>
- A step by step how-to for signing up for MoGEM can be found here: <https://dnr.mo.gov/document-search/registering-new-user-account-within-missouri-gateway-environmental-management-mogem-portal>

# Land Reclamation Information System

- The first time you log into LRIS, there will be no companies associated with your login.

**Land Reclamation Information System**

MISSOURI  
DEPARTMENT OF  
NATURAL RESOURCES

Home Search Logout Help

**Welcome to Land Reclamation Information System**

*If you have no companies listed in the Associated Company section of the page or if you would like to add an additional company that is not listed, you must select the Search Companies tab at the top of the page. From that page, you will be able to add a new company or select an existing one to display on your home page.*

MoGEM eServices

Associated Company

Missouri Department of Natural Resources  
PO Box 176; 1101 Riverside Drive Jefferson City, MO 65102-0176  
Telephone: 573-751-4041  
E-mail: [contact@dnr.mo.gov](mailto:contact@dnr.mo.gov)

MISSOURI  
DEPARTMENT OF  
NATURAL RESOURCES

# Land Reclamation Information System



## Land Reclamation Information System (LRIS)

The Land Reclamation Information System (LRIS) was developed to help the mining community a mining operations that engage in extracting industrial minerals in Missouri after Jan. 1, 1972, mu operators requested the department to develop a secure online permit application process.

Currently, LRIS can be used to apply for new, renewed, amended, expanded and revised permits mineral permits, including the mapping of the site. In the future, LRIS may be expanded to includ ability to submit annual reclamation status reports. At this time the paper process is still used to

### How to Access LRIS

The LRIS system is accessed through the department's **Missouri Gateway for Environmental M** MoGEM account in order to access LRIS. Users who do not already have a MoGEM account will r Services to access. For more information, review **Registering for a New User Account within th (MoGEM) Portal**.

Once your MoGEM account is created, you will need to login to the **MoGEM online portal** to ac LRIS, contact the LRIS Helpdesk.

### Tutorials

- **General Tutorial**
- **Mapping Tutorial**

### Additional Resources

- **In-stream Sand and Gravel Operations Permit Application Guidance - PUB2460**
- **Open Pit Operations Permit Application Guidance - PUB2462**

# Land Reclamation Information System

- If you are entering a new company into LRIS you will have to click the new button and create the company before you can associate with the company.



## Land Reclamation Information System

Home

Search ▾

Logout

Help

### Company Search

*You must first search for an existing company before adding a new company. This is to ensure that the company does not already exist in our records.*

Company Name:	<input type="text" value="capital"/>			
Street Address:	<input type="text"/>	City:	<input type="text"/>	State: <input type="text" value="--Select--"/>
Zip:	<input type="text"/>	<input type="text"/>		
				<input type="button" value="Search"/> <input type="button" value="Clear"/>

Company Name	Address	Associate / Disassociate
Capital Materials LLC	P.O. Box 104840 Jefferson City, MO 65110	<input type="button" value="Associate"/>
Capital Quarries Co INC	P.O. Box 105050 Jefferson City, MO 65110	<input type="button" value="Associate"/>
Capital Sand Co INC	PO Box 104990 Jefferson City, MO 65110	<input type="button" value="Associate"/>
Capital Sand Company INC	PO Box 104990 Jefferson City, MO 65110	<input type="button" value="Associate"/>
Capital Sand Proppants LLC	418 County Road 347 Jackson, MO 63755	<input type="button" value="Associate"/>

# Land Reclamation Information System

- Search

## 1. By Company information

Company Name:	<input type="text"/>	City:	<input type="text"/>	State:	--Select--
Street Address:	<input type="text"/>				
Zip:	<input type="text"/>	<input type="text"/>			
					<input type="button" value="Search"/> <input type="button" value="Clear"/>

## 2. Permit information

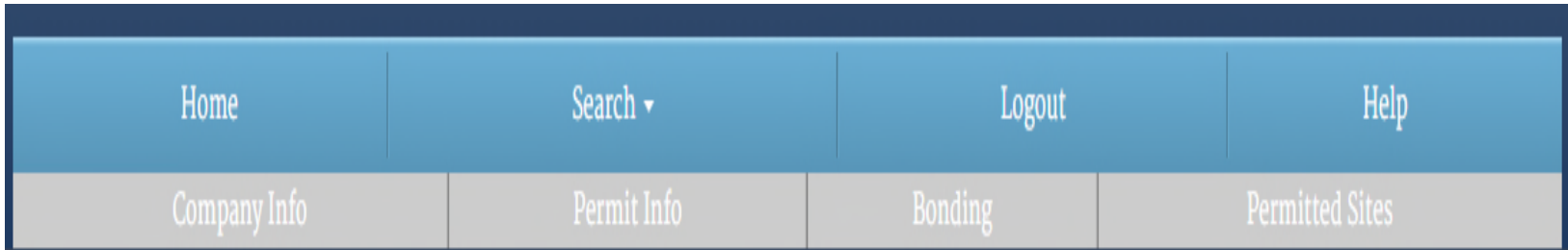
Permit No:	<input type="text"/>	Permit Type:	--Select--	Status:	--Select--
Permit Writer:	--Select--	Effective Date Range:	<input type="text"/> to <input type="text"/>		
					<input type="button" value="Search"/> <input type="button" value="Clear"/>

## 3. Site Information

Site Number:	<input type="text"/>	Site Name:	<input type="text"/>	Site Status:	--Select--
Section:	<input type="text"/>	Township:	<input type="text"/>	Range:	<input type="text"/>
Landgrant:	<input type="text"/>	County:	--Select--		
					<input type="button" value="Search"/> <input type="button" value="Clear"/>

# Land Reclamation Information System

- LRIS Navigation Tabs



- Company Info
  - The Company's contact information
- Permit Info
  - Basic permit information: issue date, expiration date, permit writer, etc.
- Bonding
  - Bond type(s) on file, bond amounts, bond company info, etc.
- Permitted Site
  - Lists all sites under permit, mine plans, public notices, etc.

# Land Reclamation Information System

- Company Info Tab

## Company Information

Expired  
Permit No. 1151

Company Name:	Perry County Quarry	Issuance Date:	10/30/2022
Contact Name:	Carl Jr Leuckel	Effective Date:	10/30/2022
Contact Number:	573-547-4242	Expiration Date:	10/31/2022
		Release Date:	

\* Indicates a Required Field

**Company Information - 10 CSR 40-10.020(2)(A)B**

In order to receive a permit from the Land Reclamation Program to conduct commercial surface mining, the applicant must be registered with the Secretary of State. It is requested that the company name be completed as it was registered with the Secretary of State.

\*The applicant is a:  \*Other Applicant:

\*Company Name:

\*Street Address Line 1:

Address Line 2:

\*City:  \*State:

\*Zip:

\*Email:

\*Phone:    Fax:

**Save**

**Applicant Information**

List the applicant and every person with the applicant in a management function responsible for compliance with sections 444.500 to 444.790 RSMo. The definition of "person associated with the applicant in a management function" means any proprietorship, subsidiary, corporation, sister corporation, successor corporation, or the applicants officers and directors if the applicant is a corporation, and includes all partners if the applicant is a partnership.

As a practical guide, first consider who is "responsible for compliance." Only list names of individuals or companies responsible for the applicants compliance. For ownership, list only an individual or company that holds 51 percent or more of the value of the applicants company and who is responsible for compliance.

\*First Name:  \*Last Name:

Title:

Business Alias (If Any):

\*Street Address Line 1:

Address Line 2:

\*City:  \*State:

\*Zip:

\*Email:

\*Phone:    Fax:

Owner:

Beginning Term Date:  Ending Term Date:

**Add Clear**

Primary Contact	Name	Title	Beginning Term Date	Ending Term Date
<input checked="" type="checkbox"/>	Carl Jr Leuckel	Other or Combination Thereof - Perry County Presiding Commissioner	01/01/2007	

**Associated User List**

Edit Flag	Name
<input checked="" type="checkbox"/>	Kurtis Cooper

**Save**





# Land Reclamation Information System

- Permit Info Tab

## Permit Info

Effective  
Permit No: 1151

<b>Company Name:</b>	Perry County Quarry	<b>Issuance Date:</b>	09/12/2022	<b>Modify Permit</b>
<b>Contact Name:</b>	Mike Sauer	<b>Effective Date:</b>	09/12/2022	
<b>Contact Number:</b>	573-547-4242	<b>Expiration Date:</b>	08/21/2023	
		<b>Release Date:</b>		

\* Indicates a Required Field

+ Indicates field is required at time of issuance.

### Permit

**+Permit Name:**  **Basic Permit Comments:**

### Date Information

<b>+Issue Date:</b>	09/12/2022	<b>+Effective Date:</b>	09/12/2022	<b>+Expiration Date:</b>	08/21/2023
<b>+DNR Received Date:</b>	<input type="text" value="09/12/2022"/>	<b>+Review Started:</b>	<input type="text" value="09/12/2022"/>		
<b>Closed Status Type:</b>	--Select--	<b>Closed Status Date:</b>	<input type="text"/>	<b>Inactive Date:</b>	<input type="text"/>
<b>Closed Status Comments:</b>	<input type="text"/>				

### Issuing Authority

**+Permit Writer:**

### Compliance Tracking Status

<b>+Status:</b>	<input checked="" type="radio"/> On <input type="radio"/> Off	<b>Start Date:</b>	<input type="text" value="08/22/2018"/>
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### Permit Certificate Info

**+Permit Certificate:**  No file selected. **Permit Certificate**

# Land Reclamation Information System

- Bonding Tab

## Financial Assurance Instrument (FAI) List

Expired

Permit No: 1151

<b>Company Name:</b>	Perry County Quarry	<b>Issuance Date:</b>	10/30/2022
<b>Contact Name:</b>	Carl Jr Leuckel	<b>Effective Date:</b>	10/30/2022
<b>Contact Number:</b>	573-547-4242	<b>Expiration Date:</b>	10/31/2022
		<b>Release Date:</b>	

<b>Active Bonding:</b>	\$12,000.00	<b>Bonding Required:</b>	\$12,000.00
<b>Posted Bonding:</b>	\$12,000.00	<b>Available Bonding:</b>	\$0.00

### List of Bonds

FAI #	FAI Type	FAI Original Amount(\$)	Available Amount(\$)	Active	Date Closed
250019106	Certificate of Deposit	\$12,000.00	\$12,000.00	Y	

[New Instrument](#)

A FAI must be completed for open pit operations. The posted bonding must be at least equal to or greater than bonding required. When obtaining a new FAI, these forms are required for each type and must be completed and submitted with the FAI to the Land Reclamation Program.

**Surety Bond**

**Certificate of Deposit**

**Letter of Credit**

A confirmation of Letter of Credit is required if the issuing bank is outside of Missouri: **Letter of Credit Confirmation**

# • Permitted Sites Tab

**Modification - Draft**  
**Permit No: 0234**

<b>Company Name:</b>	Capital Quarries Co INC	<b>Issuance Date:</b>	11/17/2022
<b>Contact Name:</b>	Chris Thiltgen	<b>Effective Date:</b>	11/28/2022
<b>Contact Number:</b>	573-644-2982	<b>Expiration Date:</b>	11/27/2023
		<b>Release Date:</b>	

Site Name	County	Permitted Type	Commodity	Permitted Acres	Operation End Date	Action - Status
1st Creek Quarry	Gasconade	Open Pit	Limestone	8	11/27/2120	Effective
Algoa #18	Cole	Open Pit	Limestone	38	11/23/2114	Effective
Arcadia Quarry #24	Iron	Open Pit	Limestone	29	11/27/2023	Effective
Bay #9	Gasconade	Open Pit	Limestone	5	11/27/2102	Effective
California Qy #5 Map ✘	Moniteau Plan Info ✘	Open Pit	Limestone	69		Expansion - Draft
Cuba Quarry #16	Crawford	Open Pit	Limestone	49	11/27/2122	Effective
Eugene Quarry	Cole	Open Pit	Limestone	37	11/27/2123	Effective
Hermann Quarry #14	Gasconade	Open Pit	Limestone	19	11/27/2122	Effective
Holts Summit Qy	Callaway	Open Pit	Limestone	135	11/27/2023	Effective
Hwy 50 West Qy	Cole	Open Pit	Limestone	10	11/27/2123	Effective
Hwy 54 South Qy	Cole	Open Pit	Limestone	22	11/27/2123	Effective
Hwy 63 North Qy	Boone	Open Pit	Limestone	89	11/27/2080	Effective
HWY Y #21	Phelps	Open Pit	Limestone	5	11/27/2023	Effective
Jerome Quarry	Phelps	Open Pit	Limestone	75	11/27/2023	Effective
Linn #20	Osage	Open Pit	Limestone	40	11/27/2123	Effective
Owensville #13	Gasconade	Open Pit	Limestone	43	11/27/2122	Effective
Rolla Quarry	Phelps	Open Pit	Limestone	101	04/01/2120	Effective
Route B #22	Cole	Open Pit	Limestone	24	11/27/2123	Effective
Salem	Dent	Open Pit	Limestone	47	11/27/2023	Effective
Stadium West Qy #2	Cole	Open Pit	Limestone	75	11/27/2123	Effective
Sullivan Quarry	Crawford	Open Pit	Limestone	131	11/01/2117	Effective

- Permit Renewal
  - Select Permit

### Welcome to Land Reclamation Information System

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#### MoGEM eServices

#### Associated Company

Company Name / Permit No	Permit Type	Permit Action	Permit Status	Effective Date	Expiration Date
Ballou Pavement Solutions DBA Heartland Materials					
Ballou Pavement Solutions DBA Heartland Materials					
1072	Industrial Mineral	Permit Renewal	Expired	02/06/2021	02/10/2021
1072	Industrial Mineral	Permit Renewal	In Progress	02/05/2023	02/06/2023
Bug					
Capital Materials LLC					
1137	Industrial Mineral	Permit Renewal	Expired	06/01/2020	06/20/2020
1137	Industrial Mineral	Permit Renewal	Expired	01/02/2022	02/20/2022
1137	Industrial Mineral	Modification	Draft	01/02/2022	02/20/2022
Capital Quarries Co INC					
0234	Industrial Mineral	Modification	Expired	11/28/2018	11/27/2019
0234	Industrial Mineral	Permit Renewal	Draft		11/27/2022
0234	Industrial Mineral	Permit Renewal	Expired	11/28/2020	11/27/2021
Davault Farms					
1073	Industrial Mineral	Modification	Effective	10/28/2022	10/20/2023
1073	Industrial Mineral	Modification	Draft	10/28/2022	10/20/2023
Ideal Ready Mix Company INC					
1015	Industrial Mineral	Permit Renewal	Effective	10/16/2022	10/15/2023
1015	Industrial Mineral	Modification	In Progress	10/16/2022	10/15/2023
Ideker INC					
1074	Industrial Mineral	Modification	Effective	10/18/2022	10/05/2023
1074	Industrial Mineral	Modification	Draft	10/18/2022	10/05/2023
Perry County Quarry					
1151	Industrial Mineral	Permit Renewal	Expired	10/30/2022	10/31/2022
Test57					
1241	Industrial Mineral	New Permit	In Progress	10/26/2022	10/25/2023



# Land Reclamation Information System

- Permit Renewal
  - Click the “Renew Permit” button

## Permit Info

Expired

Permit No: 1151

Company Name:	Perry County Quarry	Issuance Date:	10/30/2022
Contact Name:	Carl Jr Leuckel	Effective Date:	10/30/2022
Contact Number:	573-547-4242	Expiration Date:	10/31/2022
		Release Date:	

[Renew Permit](#)

\* Indicates a Required Field

+ Indicates field is required at time of issuance.

## Permit

+Permit Name:

Perry County Quarry

Basic Permit Comments:

Signature Pdf

## Date Information

+Issue Date: 10/30/2022

+Effective Date: 10/30/2022

+Expiration Date: 10/31/2022

Closed Status Type:

--Select--

Closed Status Date:

Inactive Date:

Closed Status  
Comments:

## Issuing Authority

+Permit Writer:

Kurtis Cooper

## Compliance Tracking Status

+Status:  On  Off

Start Date: 08/22/2018

## Permit Certificate Info

+Permit Certificate: Permit Certificate

# Land Reclamation Information System


- Permit Renewal
  - Click the “Continue” button

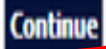
## Permit Renewal

Expired

Permit No: 1151

Company Name:	Perry County Quarry	Issuance Date:	10/30/2022
Contact Name:	Carl Jr Leuckel	Effective Date:	10/30/2022
Contact Number:	573-547-4242	Expiration Date:	10/31/2022
		Release Date:	

Site Number	Site Name	County	Permitted Type	Permitted Acres	Operation End Date	Make Active	Request Action
2683	Perry County Quarry	Perry	Open Pit	16	12/31/2518		Renew 



# Land Reclamation Information System

- Permit Renewal
  - Click the “Submit Application” button

## Permit Info

Permit Renewal - Draft

Permit No: 1151

<b>Company Name:</b>	Perry County Quarry	<b>Issuance Date:</b>	
<b>Contact Name:</b>	Carl Jr Leuckel	<b>Effective Date:</b>	
<b>Contact Number:</b>	573-547-4242	<b>Expiration Date:</b>	10/31/2023
		<b>Release Date:</b>	

\* Indicates a Required Field

+ Indicates field is required at time of issuance.

Permit			
<b>+Permit Name:</b>	<input type="text" value="Perry County Quarry"/>	<b>Basic Permit Comments:</b>	<input type="text"/>
Date Information			
<b>+Issue Date:</b>		<b>+Effective Date:</b>	<b>+Expiration Date:</b> 10/31/2023
<b>Closed Status Type:</b>	<input type="text" value="--Select--"/>	<b>Closed Status Date:</b>	<b>Inactive Date:</b>
<b>Closed Status Comments:</b>	<input type="text"/>		
Issuing Authority			
<b>+Permit Writer:</b>	<input type="text" value="--Select--"/>		
Compliance Tracking Status			
<b>+Status:</b>	<input checked="" type="radio"/> On <input type="radio"/> Off	<b>Start Date:</b>	08/22/2018
Permit Certificate Info			
<b>+Permit Certificate:</b>			

**Submit Application**



**Fee**  
**Permit Renewal - Draft**  
**Permit No: 1151**

eSignature is needed by organization official before proceeding.

<b>Company Name:</b> Perry County Quarry	<b>Issuance Date:</b>
<b>Contact Name:</b> Carl Jr Leuckel	<b>Effective Date:</b>
<b>Contact Number:</b> 573-547-4242	<b>Expiration Date:</b> 10/31/2023
	<b>Release Date:</b>

Industrial Mineral Fees - 442.772 RSMO						
<b>Annual Fee:</b>					\$800.00	
<b>Site Fees:</b>	Number of Sites					
Sites 0.01-10 Acres	0	x	\$200.00	=	\$0.00	
Sites 10.1-75 Acres	1	x	\$500.00	=	\$500.00	
Sites 75.1-200 Acres	0	x	\$800.00	=	\$0.00	
Sites >= 200.1 Acres	0	x	\$1,000.00	=	\$0.00	
<b>Site Fee Total:</b>					\$500.00	
<b>Acreage Fees:</b>	<b>Number of Acres Bonded</b>		16 x \$13.00		\$208.00	
<b>Total Industrial Mineral Fee:</b>					\$1,508.00	imMaxString
Geologic Resource Fees - 256.700 RSMO						
<b>Annual Fee:</b>					\$50.00	
<b>Site Fees:</b>	<b>Number of Sites</b>		1 x \$50.00		\$50.00	
<b>Acreage Fees:</b>	<b>Number of Acres Bonded</b>		16			
	<b>First 300 acres at \$6 per acre</b>		\$96.00			
	<b>Acres over 300 at \$3 per acre</b>		\$0.00			
<b>Total Geologic Resource Fee:</b>					\$196.00	(\$3,500 Year Maximum)
<b>Total Fees Due for Application:</b>					\$1,704.00	

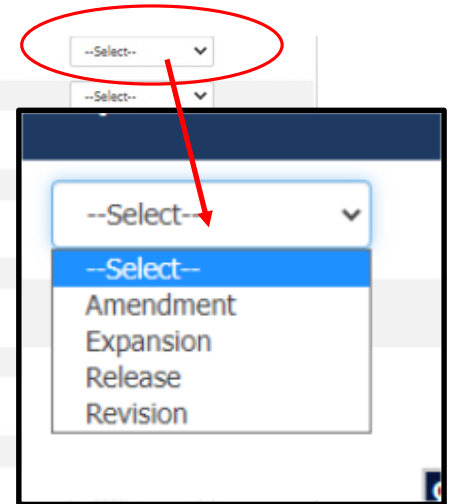


# Land Reclamation Information System

• Note: Permit Modification Page Allows for the following Actions:

- To add a new site
- Dropdown Box
  - Amendment
  - Expansion
  - Release
  - Revision

307	Hwy 63 North Qy	Boone	Open Pit	38	11/27/2023
1705	Hwy Y #21	Phelps	Open Pit	1	11/27/2023
103	Jerome Quarry	Phelps	Open Pit	75	11/27/2023
315	Linn #20	Osage	Open Pit	30	11/27/2023
313	Owensville #13	Gasconade	Open Pit	39	11/27/2023
302	Rolla Quarry	Phelps	Open Pit	78	04/01/2120
1820	Route B #22	Cole	Open Pit	24	11/27/2023
303	Salem	Dent	Open Pit	47	11/27/2023
308	Stadium West Qy #2	Cole	Open Pit	75	11/27/2023
310	Sullivan Quarry	Crawford	Open Pit	113	11/01/2117
490	Thayer Quarry #8	Oregon	Open Pit	22	11/27/2117



Do you want to add a new site?

Do you want to add a new site?

# Land Reclamation Information System

- Permit Expansion/Amendment
  - “X” marks the spot
    - X’s indicate items that need to be completed
  - Click the “Site Name” to complete the items

## Site List

Modification - Draft

Permit No: 0234

<b>Company Name:</b>	Capital Quarries Co INC	<b>Issuance Date:</b>	04/26/2023
<b>Contact Name:</b>	Chris Thiltgen	<b>Effective Date:</b>	04/26/2023
<b>Contact Number:</b>	573-644-2982	<b>Expiration Date:</b>	11/27/2023
		<b>Release Date:</b>	

Site Number	Site Name	County	Permitted Type	Commodity	Permitted Acres	Operation End Date	Action - Status
311	Algoa #18	Cole	Open Pit	Limestone	38	11/23/2114	Effective
316	Bay #9	Gasconade	Open Pit	Limestone	5	11/27/2023	Effective
979	Eugene Quarry	Cole	Open Pit	Limestone	37		Effective
681	Hermann Quarry #14	Gasconade	Open Pit	Limestone	9	11/27/2023	Effective
301	Hwy 50 West Qy	Cole	Open Pit	Limestone	10	11/16/2028	Effective
306	Hwy 54 South Qy	Cole	Open Pit	Limestone	22	11/27/2023	Effective
307	Hwy 63 North Qy	Boone	Open Pit	Limestone	38	11/27/2023	Effective
1705	Hwy Y #21	Phelps	Open Pit	Limestone	1	11/27/2023	Effective
103	Jerome Quarry Map X	Phelps Plan Info X	Open Pit	Germanium	75		Expansion - Draft
315	Linn #20	Osage	Open Pit	Limestone	30	11/27/2023	Effective
313	Owensville #13	Gasconade	Open Pit	Limestone	39	11/27/2023	Effective
302	Rolla Quarry	Phelps	Open Pit	Limestone	78	04/01/2120	Effective
1820	Route B #22	Cole	Open Pit	Limestone	24	11/27/2023	Effective
303	Salem	Dent	Open Pit	Limestone	47	11/27/2023	Effective
308	Stadium West Qy #2	Cole	Open Pit	Limestone	75	11/27/2023	Effective
310	Sullivan Quarry	Crawford	Open Pit	Limestone	113	11/01/2117	Effective
490	Thayer Quarry #8	Oregon	Open Pit	Limestone	22	11/27/2117	Effective

# Land Reclamation Information System

- Permit Expansion/Amendment
  - Click the “Mine Plan” and “Mapping” to complete the items marked on the prior page by X’s

## Site Details

Modification - Draft

Permit No: 0234

<b>Company Name:</b> Capital Quarries Co INC	<b>Issuance Date:</b> 04/26/2023	<b>Site Number:</b> 103
<b>Contact Name:</b> Chris Thiltgen	<b>Effective Date:</b> 04/26/2023	<b>Site Name:</b> Jerome Quarry
<b>Contact Number:</b> 573-644-2982	<b>Expiration Date:</b> 11/27/2023	<b>Site Action:</b> Expansion
	<b>Release Date:</b>	<b>Site Status:</b> Draft

\* Indicates a Required Field

### Site

**Site Number:** 103

**\*Site Name:**

**\*Physical Address Line 1:**

**Physical Address Line 2:**

**\*City:**  **State:** MO **\*Zip:**

**\*Permitted Type:** Open Pit

**\*Commodity:**   
Cadmium  
Clay  
Cobalt  
Gallium  
Germanium

### Site Location Information

**Permitted Acres:** 75 **County:** Phelps **Legal Description:** S19T37NR9W, S24T37NR10W

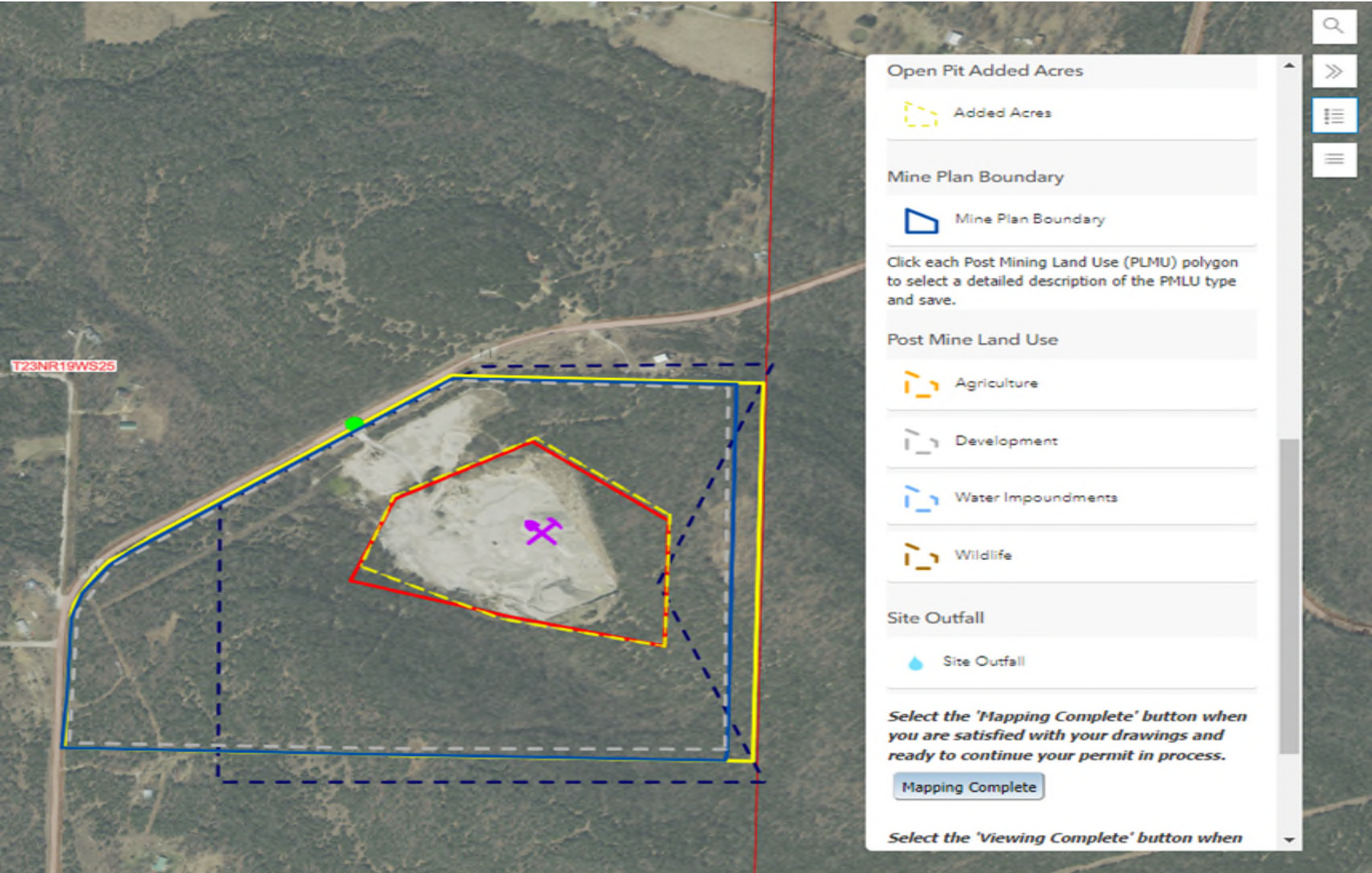
**Added Acres:** 0

**Converted Legal Description:** S19 24T37NR09W 10W



# Land Reclamation Information System

- Permit Expansion/Amendment - Mapping



# • Permit Expansion/Amendment - Mine Plan

## Mine Plan

Modification - In Progress

Permit No: 1137

<b>Company Name:</b> Capital Materials LLC	<b>Issuance Date:</b> 07/29/2022	<b>Site Number:</b> 349
<b>Contact Name:</b> Chris Thiltgen	<b>Effective Date:</b> 07/29/2022	<b>Site Name:</b> Hilda
<b>Contact Number:</b> 573-644-2982	<b>Expiration Date:</b> 07/25/2023	<b>Site Action:</b> Expansion
	<b>Release Date:</b>	<b>Site Status:</b> Draft

\* Indicates a Required Field

### Location Data

Mine Plan Acres	County	Legal Description
90	Taney	S25T23NR19W

### Post-mining Land Uses

Mapping functions for Post-mining Land Use (PMLU) are approximate in this system. Total PMLU acreage may not equal the mapped Mine Plan acreage. When completing the Mine Plan form the PMLU acreage must total the Mine Plan acreage, or will not be approved until corrected.

Land Use	Acres Per Land Use	Land Use Details
Development	86.0	Industrial

### Mine Plan Form to download

Mine Plan Form

### Upload Mine Plan Form

\*File:  No file chosen

Completed Mine Plan Form

\*Beginning Operation Date:  

\*Ending Operation Date:  

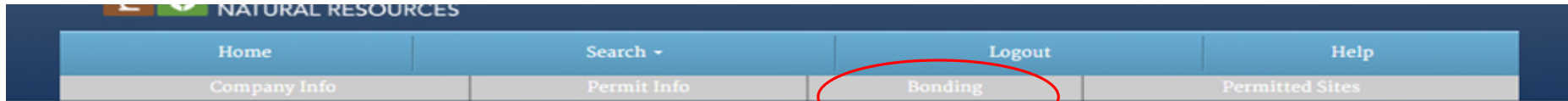
### Upload Property Owner Map

\*File:  No file chosen

Completed Property Owner Map

# Land Reclamation Information System

- Permit Expansion/Amendment - Bonding



## Permit Info

Permit Renewal - Draft

Permit No: 1072

<b>Company Name:</b>	Ballou Pavement Solutions DBA Heartland Materials	<b>Issuance Date:</b>	
<b>Contact Name:</b>	Jerry Neels	<b>Effective Date:</b>	
<b>Contact Number:</b>	573-338-4208	<b>Expiration Date:</b>	02/06/2024
		<b>Release Date:</b>	

\* Indicates a Required Field

+ Indicates field is required at time of issuance.

Permit			
<b>Old Permit No:</b>	1072T	<b>Basic Permit Comments:</b>	
<b>+Permit Name:</b>	Ballou Pavement Solu		
Date Information			
<b>+Issue Date:</b>		<b>+Effective Date:</b>	02/06/2024
<b>Closed Status Type:</b>	--Select--	<b>Closed Status Date:</b>	
<b>Closed Status Comments:</b>		<b>Inactive Date:</b>	
Issuing Authority			
<b>+Permit Writer:</b>	--Select--		
Compliance Tracking Status			
<b>+Status:</b>	<input checked="" type="radio"/> On <input type="radio"/> Off	<b>Start Date:</b>	10/05/2017
Permit Certificate Info			
<b>+Permit Certificate:</b>			

Submit Application



# Land Reclamation Information System

- Permit Expansion/Amendment - Bonding

## Financial Assurance Instrument (FAI) List

Permit Renewal - Draft

Permit No: 1072

<b>Company Name:</b>	Ballou Pavement Solutions DBA Heartland Materials	<b>Issuance Date:</b>	
<b>Contact Name:</b>	Jerry Neels	<b>Effective Date:</b>	
<b>Contact Number:</b>	573-338-4208	<b>Expiration Date:</b>	02/06/2024
		<b>Release Date:</b>	

<b>Active Bonding:</b>	\$37,000.00	<b>Bonding Required:</b>	\$37,000.00
<b>Posted Bonding:</b>	\$37,000.00	<b>Available Bonding:</b>	\$0.00

### List of Bonds

FAI #	FAI Type	FAI Original Amount(\$)	Available Amount(\$)	Active	Date Closed
015056381	Surety Bond	\$28,000.00	\$37,000.00	Y	

**New Instrument**

A FAI must be completed for open pit operations. The posted bonding must be at least equal to or greater than bonding required. When obtaining a new FAI, these forms are required for each type and must be completed and submitted with the FAI to the Land Reclamation Program.

**Surety Bond**

**Certificate of Deposit**

**Letter of Credit**

A confirmation of Letter of Credit is required if the issuing bank is outside of Missouri: **Letter of Credit Confirmation**

## Financial Assurance Instrument (FAI) Information

Permit Renewal - Draft

Permit No: 1072

<b>Company Name:</b>	Ballou Pavement Solutions DBA Heartland Materials	<b>Issuance Date:</b>	
<b>Contact Name:</b>	Jerry Neels	<b>Effective Date:</b>	
<b>Contact Number:</b>	573-338-4208	<b>Expiration Date:</b>	02/06/2024
		<b>Release Date:</b>	

\* Indicates a Required Field

<b>*Instrument Form:</b>	<input type="button" value="Choose File"/> No file chosen	<b>Completed Instrument Form</b>
<b>Active:</b>	<input checked="" type="checkbox"/>	
<b>*Financial Institution:</b>	<input type="text" value="Liberty Mutual Insurance Company"/>	
<b>*Street Address Line 1:</b>	<input type="text" value="175 Berkeley St"/>	
<b>Address Line 2:</b>	<input type="text"/>	
<b>*City:</b>	<input type="text" value="Boston"/>	<b>*State:</b> <input style="border: none; border-bottom: 1px solid #ccc; padding: 2px 5px;" type="text" value="MA"/>
<b>*Zip:</b>	<input type="text" value="02116"/> <input type="text"/>	
<b>Phone:</b>	<input type="text" value="( 513 )"/> <input type="text" value="792"/> - <input type="text" value="1861"/>	
<b>*FAI #:</b>	<input type="text" value="015056381"/>	<b>FAI Date:</b> 08/14/2017
<b>*FAI Type:</b>	<input style="border: none; border-bottom: 1px solid #ccc; padding: 2px 5px;" type="text" value="Surety Bond"/>	<b>*FAI Original Amount(\$):</b> <input type="text" value="28000.00"/>
<b>Date Received:</b>	08/23/2017	
<b>Date Accepted:</b>	10/05/2017	<b>Available Amount(\$):</b> \$37,000.00
<b>Date Released:</b>		<b>Date Forfeited:</b>

**Note:** The original financial assurance instrument with the completed notarized form, must be submitted to the Land Reclamation Program at: Missouri Department of Natural Resources, Land Reclamation Program, PO Box 176, Jefferson City, MO 65102-0176. An open pit permit application will not be deemed complete without the original FAI.

[Clear](#)

Transactions List			
Transaction Amount (\$)	Date Transaction	FAI Rider	Admin Bond Release Form
\$9,000.00	12/05/2017	doc	

## Main Menu Options

# Enhancements to Come

### Permitting

- Search Companies
- Search Permits
- Search Sites
- Add a New Application
- Compliance Monitoring
- Enforcement
- Reports

### Permit Transfers

### Inspection

- Inspection Map
- Site List
- Inspection Check Out

### HB-246 Registered Operator

- Search Operators
- Search Sites
- Add a New Application



# Reporting and Visuals of LRIS

- What else does this system do?
- Reports
  - Fiscal Information
  - LRP Reports – Industrial Minerals Activities
  - Mail Merge Templates
  - Quality Assurance
  - Site Search Information
- Permitted Sites Viewer

# Server Error

**401 - Unauthorized: Access is denied due to invalid credentials.**

You do not have permission to view this directory or page using the credentials that you supplied.











## Report Portal

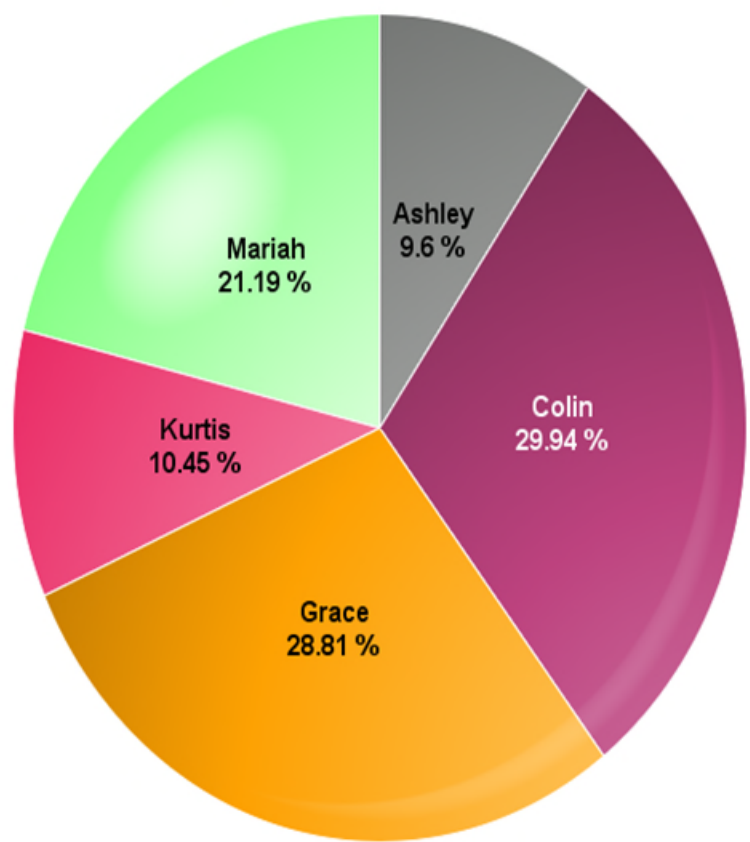




Help	⌵
Preferences	
New WebI Report	
New DashSpace	
Favorites	⌵
Inbox	
Reports	⌴
ACE	⌵
DNR Support Documentation	
Enterprise Reports	⌵
<b>LRIS</b>	⌴
Fiscal Information	
LRP Reports (IM Activities)	
Mail Merge Templates	⌵
QA	
Site Search Information	
MoCWIS	⌵

Title ↑
 <a href="#"><b><u>Acreeage Tracking Sheet (template)</u></b></a> Instance Count: 0
 <a href="#"><b><u>Company Information form from LRIS (needs some updates)</u></b></a> Instance Count: 0
 <a href="#"><b><u>Expired Permits</u></b></a> Instance Count: 19
 <a href="#"><b><u>MDM for Reg Entity_(Site)</u></b></a> Instance Count: 11
 <a href="#"><b><u>Permit Action Table</u></b></a> Instance Count: 0
 <a href="#"><b><u>Permit Certificate - IM - mail merge</u></b></a> Instance Count: 0
 <a href="#"><b><u>Permit Certificate - TRANSFERS ONLY</u></b></a> Instance Count: 0
 <a href="#"><b><u>Public Meeting Table</u></b></a> Instance Count: 7
 <a href="#"><b><u>Public Notice Expiration within 230 Days</u></b></a> Instance Count: 8
 <a href="#"><b><u>Search for Contacts for Associated Companies</u></b></a> Instance Count: 0
 <a href="#"><b><u>Sites for Inspections</u></b></a> Instance Count: 16
 <a href="#"><b><u>Usage of LRIS -Companies Registration</u></b></a> Instance Count: 12
 <a href="#"><b><u>Yearly Cycle of When Permits Expire</u></b></a> Instance Count: 0

### This is the % of Permits Processed by Inspector for the Year of: 2022



Inspector	Total Permits Received	% Processed
Ashley	34	9.60%
Colin	106	29.94%
Grace	102	28.81%
Kurtis	37	10.45%
Mariah	75	21.19%
<b>Sum:</b>	<b>354</b>	
	<b>Percentage:</b>	<b>100.00%</b>

Prior to Creating Date DNR Received in LRIS on 7/2/2019 - Permits Received Before this Date will not be reported as the field did not exist.



## Sites That Have Public Notices Expiring in the next 230 Days or have Expired Unless Reclamation Only Checked

Format Current Date	Site Number	Site Name	Archive Flag	Query Site Type	Format Expiration Date	Date Operation End	Reclamation Only	Permit Number	Organization Name
April 29, 2023	120	Site #1		OP	December 31, 2015	12/31/2015	N	96	Simpson Sand and Gravel
April 29, 2023	1685	Site #1		INS	January 01, 2023	1/1/2023	N	853	Peterson Farms
April 29, 2023	2027	Site #2		INS	January 01, 2023	1/1/2023	N	853	Peterson Farms
April 29, 2023	2028	Site #3		INS	January 01, 2023	1/1/2023	N	853	Peterson Farms
April 29, 2023	2029	Site #4		INS	January 01, 2023	1/1/2023	N	853	Peterson Farms
April 29, 2023	2030	Site #5		INS	January 01, 2023	1/1/2023	N	853	Peterson Farms
April 29, 2023	2010	Site #1		INS	August 15, 2023	8/15/2023	N	926	Yeary Trucking LLC
April 29, 2023	2011	Site #2		INS	August 15, 2023	8/15/2023	N	926	Yeary Trucking LLC
April 29, 2023	2012	Site #3		INS	August 15, 2023	8/15/2023	N	926	Yeary Trucking LLC
April 29, 2023	78	Stamper Quarry		OP	October 31, 2023	10/31/2023	N	153	Martin Marietta Materials INC
April 29, 2023	103	Jerome Quarry		OP	November 27, 2023	11/27/2023	N	234	Capital Quarries Co INC
April 29, 2023	300	Holts Summit Qy		OP	November 27, 2023	11/27/2023	N	234	Capital Quarries Co INC
April 29, 2023	303	Salem		OP	November 27, 2023	11/27/2023	N	234	Capital Quarries Co INC
April 29, 2023	315	Linn #20		OP	November 27, 2023	11/27/2023	N	234	Capital Quarries Co INC
April 29, 2023	569	Arcadia Quarry #24		OP	November 27, 2023	11/27/2023	N	234	Capital Quarries Co INC
April 29, 2023	1705	HWY Y #21		OP	November 27, 2023	11/27/2023	N	234	Capital Quarries Co INC
April 29, 2023	2503	Pace Pit #1		OP	December 10, 2023	12/10/2023	N	1025	River Cement Co DBA Buzzi Unicem USA
April 29, 2023	2505	Vanbibber Pit #1		OP	December 10, 2023	12/10/2023	N	1025	River Cement Co DBA Buzzi Unicem USA



## Fiscal Information



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**Bill's IM Fee stuff**

Instance Count: 0



**FAI - Partial Release and Waiting on Rider**

Instance Count: 16



**FAI Labels**

Instance Count: 0



**FAI Search by Company**

Instance Count: 0



**FAIs Created by Operator**

Instance Count: 30



**Financial Assurance Instrument Information**

Instance Count: 1



**GR Fee stuff**

Instance Count: 0



**Over/Under bonding by Company**

Instance Count: 7



**QA FAI Releases to Ensure Rider are Received**

Instance Count: 0



**Released FAIs (Bonds/Surety)**

Instance Count: 0



1



## IM Fee Breakdown With Cap

Organization Name	Permit Number	Estimate Ton Amount	All Site Acres	IM Annual Permit Fee	Acreage Fee	Site Fees to Permit Level	Sum Permit and Site Fees	Cap 3000 Factored	Cap 6000 Factored	Cap 7500 Factored	Cap 9000 Factored
Norris Quarries LLC	818		2,374	\$800	\$30,862	\$17,300	\$48,962	\$3,000	\$6,000	\$7,500	\$9,000
Capital Materials LLC	1137		1,530	\$800	\$19,890	\$12,800	\$33,490	\$3,000	\$6,000	\$7,500	\$9,000
Con-Agg of MO, LLC, dba Bo	26		1,644	\$800	\$21,372	\$10,900	\$33,072	\$3,000	\$6,000	\$7,500	\$9,000
Central Stone Company	28	0	1,579	\$800	\$20,527	\$11,200	\$32,527	\$3,000	\$6,000	\$7,500	\$9,000
Capital Quarries Co INC	234		1,013	\$800	\$13,169	\$10,500	\$24,469	\$3,000	\$6,000	\$7,500	\$9,000
Magruder Limestone Co INC	86	0	990	\$800	\$12,870	\$5,400	\$19,070	\$3,000	\$6,000	\$7,500	\$9,000
HarbisonWalker Internationa	146		451	\$800	\$5,863	\$9,400	\$16,063	\$3,000	\$6,000	\$7,500	\$9,000
River Cement Co DBA Buzzi	43	0	1,071	\$800	\$13,923	\$1,000	\$15,723	\$3,000	\$6,000	\$7,500	\$9,000
Conco Quarries, A CRH Con	29		640	\$800	\$8,320	\$6,300	\$15,420	\$3,000	\$6,000	\$7,500	\$9,000
Bussen Quarries INC	135	0	808	\$800	\$10,504	\$3,000	\$14,304	\$3,000	\$6,000	\$7,500	\$9,000
Martin Marietta Materials INC	153	0	724	\$800	\$9,412	\$2,800	\$13,012	\$3,000	\$6,000	\$7,500	\$9,000
Trap Rock and Granite Quarr	1078		849	\$800	\$11,037	\$1,000	\$12,837	\$3,000	\$6,000	\$7,500	\$9,000
New Frontier Materials Oper	1190	0	634	\$800	\$8,242	\$3,700	\$12,742	\$3,000	\$6,000	\$7,500	\$9,000
APAC-Tennessee, INC.	718	0	793	\$800	\$10,309	\$1,000	\$12,109	\$3,000	\$6,000	\$7,500	\$9,000
APAC Kansas INC	40	0	649	\$800	\$8,437	\$2,800	\$12,037	\$3,000	\$6,000	\$7,500	\$9,000
Indian Creek Materials LLC	1160		506	\$800	\$6,578	\$4,400	\$11,778	\$3,000	\$6,000	\$7,500	\$9,000
Ash Grove Aggregates INC	2	0	454	\$800	\$5,902	\$5,000	\$11,702	\$3,000	\$6,000	\$7,500	\$9,000
Specialty Granules INC	520	0	709	\$800	\$9,217	\$1,000	\$11,017	\$3,000	\$6,000	\$7,500	\$9,000
Nestle Purina PetCare Comp	552	0	581	\$800	\$7,553	\$2,600	\$10,953	\$3,000	\$6,000	\$7,500	\$9,000
Continental Cement Co LLC	321		407	\$800	\$5,291	\$4,800	\$10,891	\$3,000	\$6,000	\$7,500	\$9,000

## Current Total Bond

- CD's – \$2,274,420.00
  - LOC's – \$2,260,000.00
  - SB's – \$15,236,950.00
- 
- \$19,771,370.00



## The Amount of Financial Assurance by Company - Accepted and Active in BIG SAFE

Company Name	Date Issuance	Permit Number	Instrument Order	Instrument Number	Financial Institution
A-1 Quality Stone, LLC	7/15/2019	0713	LOC - 755	755	Southwest Missouri Bank
A and M Quarries INC	10/2/2008	0116	CD - 5920	5920	Sherwood Community Bank
AA Quarry LLC	11/16/2012	1094	CD - 1068	1068	Community Bank of Pleasant Hill
AA Quarry LLC	10/31/2016	1094	CD - 800385	800385	Community Bank of Pleasant Hill
AA Quarry LLC	1/1/2022	1094	CD - 900424	900424	Community Bank Pleasant Hill
Allen Quarries INC	7/30/1982	0065	CD - 3779	3779	Bank of America
Allen Quarries INC	6/20/1989	0065	CD - 067821	067821	Bank of America
Allen Quarries INC	4/12/1991	0065	CD - 85445	85445	Bank of America
Allen Quarries INC	8/23/1991	0065	CD - 090544	090544	Bank of America
Allen Quarries INC	1/22/2008	0065	CD - 091000111995990	091000111995990	Bank of America
American R and C LLC DBA Buchanan Materials	9/9/2017	0997T1	LOC - 9006194	9006194	OAKSTAR BANK
Amer-Yenom LLC dba Ralls County Stone	2/17/2022	1219	Bond - 7901094318	7901094318	Nationwide Mutual Insurance Company
Anchor Stone Co	6/28/1995	0678	Bond - 137855567	137855567	Continental Casualty Company - CFR
Anchor Stone Co	8/16/1995	0678	Bond - 137945835	137945835	Continental Casualty Co - CFR
Anchor Stone Co	4/30/2004	0678	Bond - BD0104423	BD0104423	Mid-Continent Casualty Company - CFR Inc.
Anchor Stone Co	7/22/2014	0678	Bond - 38BSBGP7269	38BSBGP7269	Hartford Fire Insurance Company
Anchor Stone Co	2/24/2015	0678	LOC - BOK15SDF08440	BOK15SDF08440	BOK Financial Services
Anchor Stone Co	4/26/2016	0678	Bond - 38BSBGP7275	38BSBGP7275	Hartford Fire Insurance Company



## LRP Reports (IM Activities)



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[Count for Active Permits](#)

Instance Count: 0



[Count of Sites Issued/Active -](#)

Instance Count: 0



[End Land Use Acres Released During a Select Time Period](#)

Instance Count: 1



[IMCC Report -](#)

Instance Count: 0



[Industrial Minerals Data from LRIS for Monthly Dashboard](#)

Instance Count: 22



[MLPA List of Sites](#)

Instance Count: 0



[MMC IM Activities Report -](#)

Instance Count: 0



[Number of Days to Issue a Permit -](#)

Instance Count: 21



[Revoked Permits with Contacts \(needs work\)](#)

Instance Count: 0



[Revoked Sites with Reclamation Liability](#)

Instance Count: 0



1



Permits Issued

Acres Permitted

Acres Permitted (Raw Data)

Acres Reclaimed

Prompts

Enter value(s) for Date (Start) (Required)

01/01/2022 12:00:00 AM X

1/1/2022



12:00 AM



Enter value(s) for Date (End) (Required)

12/31/2022 05:00:00 PM X

12/31/2022



5:00 PM



Submit

Cancel



Permits Issued

Acres Permitted Acres Permitted (Raw Data) Acres Reclaimed

**Number of IM Permits Issued for dates between 01/01/2022 and 12/31/2022**

Note: Any data collected before Conversion on 7/1/2018 may be inaccurate.

Permits Processed

356

Permits Issued

Acres Permitted

Acres Permitted (Raw Data)

**Acres Reclaimed**

**Number of Released Acres Approved by Land Use for dates  
between 01/01/2022 and 12/31/2022**

Note: Any data collected before Conversion on 7/1/2018 may be inaccurate.


Land Use Code	Land Use Acres
Agriculture	74
Development	16
Unaffected	114
Water	69
WildLife	64
<b>Total:</b>	<b>337</b>

Land Use Code	Land Use Acres	Percentage:
Agriculture	74	33.18%
Development	16	7.17%
Water	69	30.94%
WildLife	64	28.70%
<b>Total:</b>	<b>223</b>	
	<b>Percentage:</b>	<b>100.00%</b>


## Revoked Sites, Count: 10


Organization Name	Permit #	Site Number	Site Name	County	Site Type	Date Inspection	Site Closed Flag
Quality Stone Co	0140	149	Rob Quarry	Randolph	Open Pit	5/15/19	N
W A Dillon Clay Mining	0242	325	Soete Pit #1	Phelps	Open Pit	8/15/19	N
National Refractories and Minerals Corp	0389	441	T E Hook	Audrain	Open Pit	7/10/07	N
National Refractories and Minerals Corp	0389	444	Jones	Audrain	Open Pit	8/9/19	N
National Refractories and Minerals Corp	0389	455	Baumgarth	Gasconade	Open Pit	9/20/19	N
National Refractories and Minerals Corp	0389	459	Roethemeyer	Gasconade	Open Pit	9/20/19	N
Russell Cook	1026	2284	Site 1	Taney	Open Pit	9/18/19	N
Mid America Brick and Structural Clay Products LLC	1068	2377	Site #1	Audrain	Open Pit	8/9/19	N
Summit Proppants INC	1096	2465	Colony Church #1	Ste. Genevieve	Open Pit	9/25/19	N
Legacy Quartz Sand Company LLC	1133	2603	Vision Quest Quarry	Dent	Open Pit	8/13/20	N
Legacy Quartz Sand Company LLC	1133	2603	Vision Quest Quarry	Texas	Open Pit	8/13/20	N


## Monthly Permit Reminder

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**Permit Certificate - Mail Labels**

Instance Count: 0



**Permit Reminder to Renew List for Mail Merge Letter**

Instance Count: 6


⏪ ◀ 1 ▶ ⏩





**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

## Site Search Information

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Title ↑

 [Number of Sites by Commodity or Site Type](#)

Instance Count: 0

 [Permitted Acres by County - Map](#)

Instance Count: 0

 [Site Search Query](#)

Instance Count: 0

⏪ ◀ 1 ▶ ⏩



## Count of Sites As of Today with Commodity Mined,

Commodity	Site Count
Clay	115
Granite	7
Limestone	343
Sand and/or Gravel	245
Sandstone	14
Shale	4
Traprock	2
<b>Sum:</b>	<b>730</b>

# Industrial Minerals Map Viewer

- All of our permitted mine sites
- Accessible in the MO DNR web site
- [dnr.mo.gov](http://dnr.mo.gov)
- Land and Geology



[AIR](#) ▾

[WASTE AND RECYCLING](#) ▾

[WATER](#) ▾

[LAND AND GEOLOGY](#) ▾

[ENERGY](#) ▾

[MO STATE PARKS](#) ▾

[AGENCY/ GENERAL](#) ▾

Google Translate



# LAND AND GEOLOGY

Missouri's land and geology are essential natural resources. From surface topsoil to underground caves, land supports all human activities. Resources like industrial and metallic minerals, oil, water, vegetation, trees supplying oxygen and wood, and animals are all supported by the land.

The food we eat depends on the soil in which it is grown. Minerals in our food and drinks, limestone and minerals used in the construction of buildings and roads, to the minerals found in items we use every day contribute to the high quality of life we enjoy. Protecting these resources is important to the Missouri Department of Natural Resources. Geological activities and best soil conservation practices of farmers and landowners affects the daily life of every person in the state. The decisions we make also contribute to the economy of our state. Unearth more about Missouri's land.

## In This Section:

**Geology**

**Maps, Data and Research**

**Geologic Hazards**

**Dam and Reservoir Safety**

**Soil and Water Conservation**

**Mining and Land Reclamation**

**Businesses, Landowners and Permittees**

**What We're Doing**

**Get Involved**

**Laws, Rules and Regulations**



## Mining and Land Reclamation

The department ensures beneficial restoration of mined lands to protect public health, safety and the environment from the adverse effects of mining within the state. We administer state statutes and regulations, and Missouri Mining Commission policies and directives. Staff ensure Missouri's mineral resources are available for economic development and after reclamation, the land is available for new development or public use.

- [Land Reclamation Program Biennial Report 2020-2021 - PUB3014](#)
- [Land Reclamation Program Biennial Report 2018-2019 - PUB2827](#)
- [Industrial Mineral Resources Support - PUB3023](#)



### History of Mining

Mining activity in Missouri began as early as the 1740s



### Permitted Industrial and Metallic Mineral Mine Sites

Locate sites permitted to mine industrial and metallic minerals



### Industrial Minerals

Sites no longer in operation are reclaimed for new development or public use



## Industrial Mineral Mines and Metallic Mineral Mine Waste Management Areas

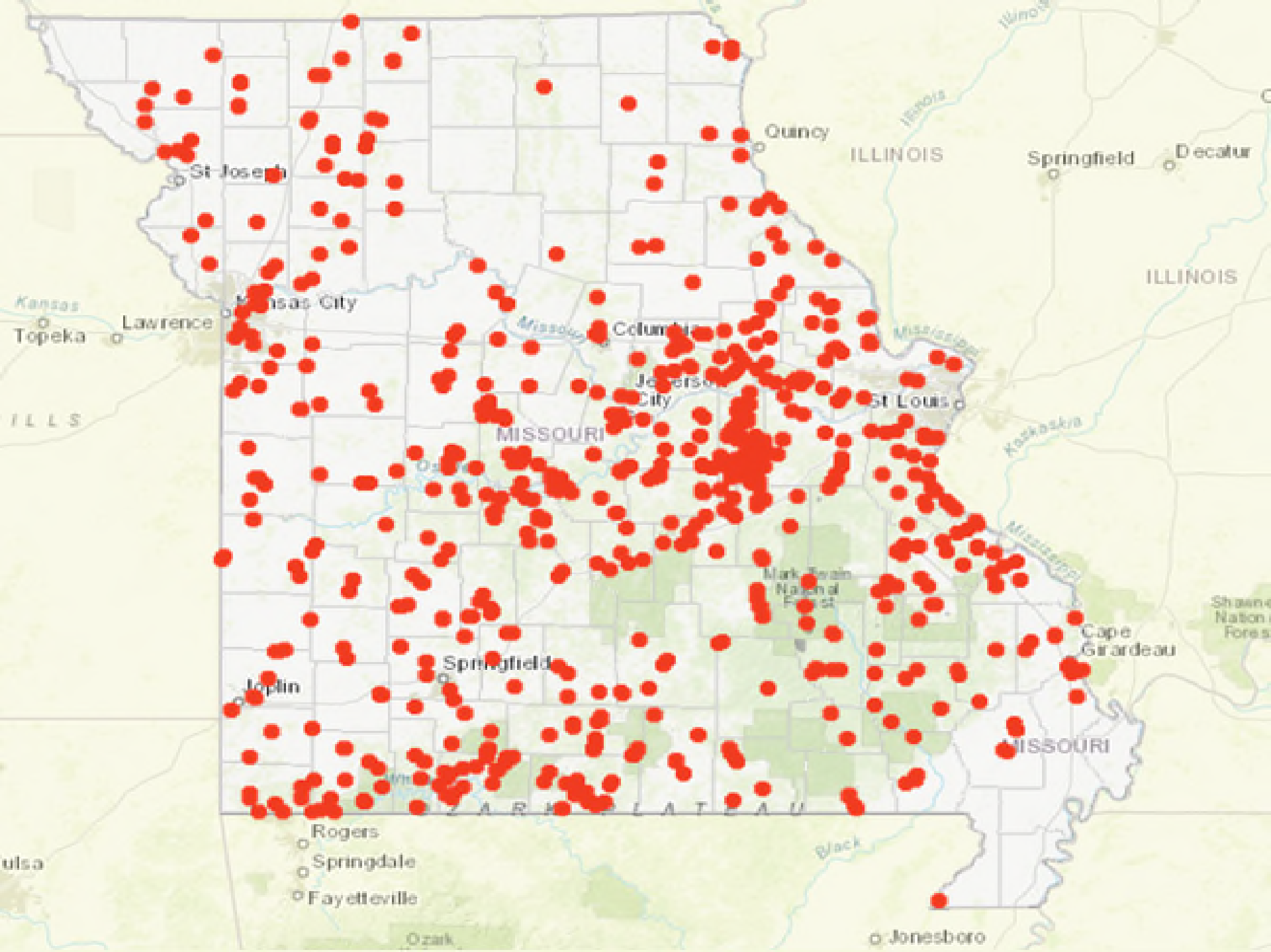
The **Industrial Minerals and Metallic Mineral Waste Management Areas Viewer** is an ArcGIS web application that depicts active sites permitted to mine industrial minerals, under the Land Reclamation Act, and sites permitted to mine metallic minerals under the Metallic Minerals Waste Management Act. The Land Reclamation Program enforces the statutes of these congressional acts, under direction of the **Missouri Mining Commission**.

For mine sites under an active permit, the Land Reclamation Program is responsible for permitting actions, inspections, enforcement proceedings and reclamation provisions of the mining laws. All **Missouri mining laws** require the post-mining restoration of land to a certain beneficial land use.

The viewer is updated nightly through our online Land Reclamation Information System, except for the Metallic Mineral Waste Management Areas. The map contains different layers with information in attribute tables, and illustrates the long-term mine plan boundary and current bonded and permitted areas. By selecting the feature, information about the site will appear or you can view this information in a table to search for specific information regarding a site. Data also can be sorted in ascending or descending order. In addition, operator contact information is also available.

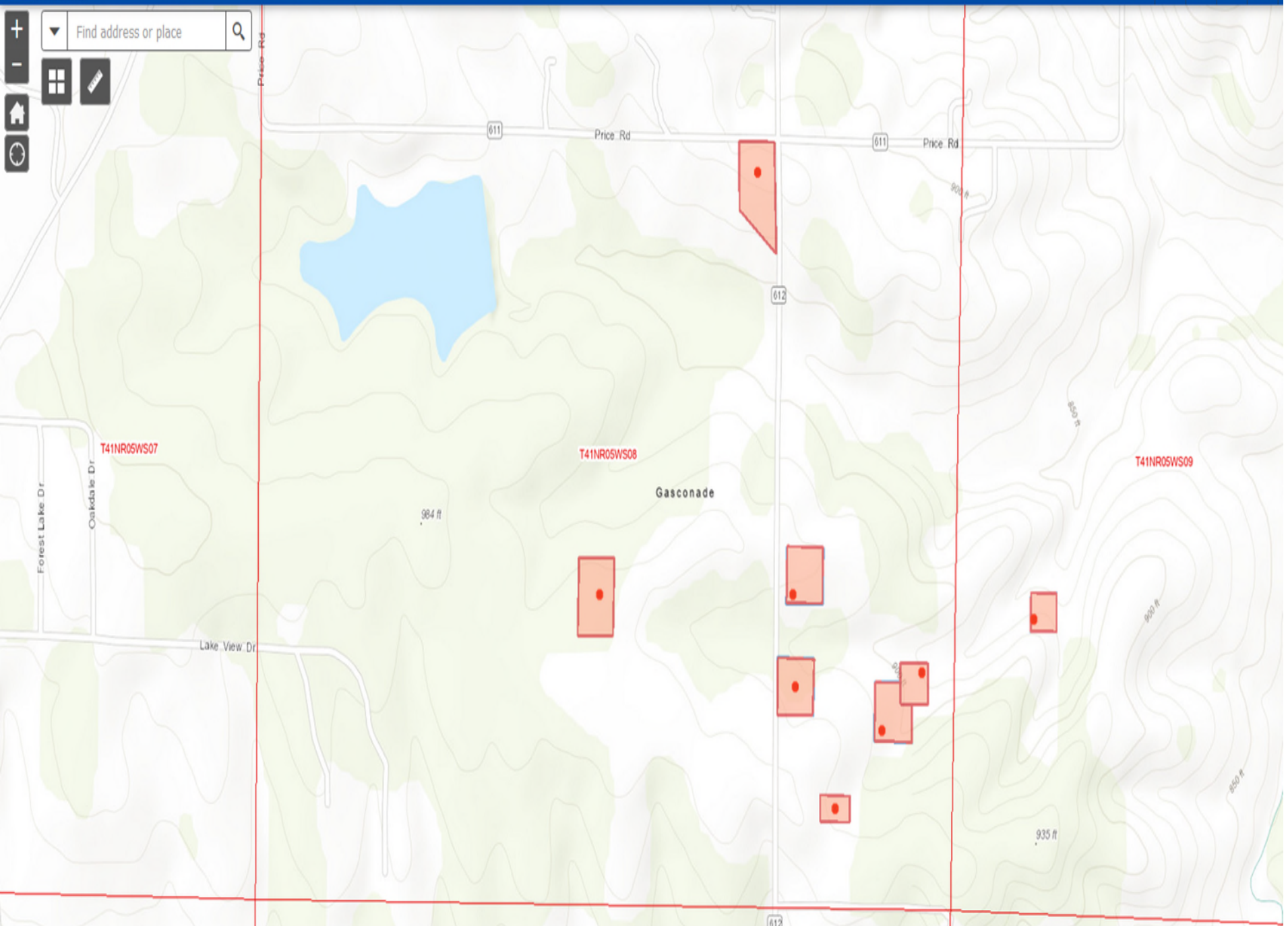






Find address or place

Map navigation controls: +, -, Home, Refresh, Full Screen, Measure

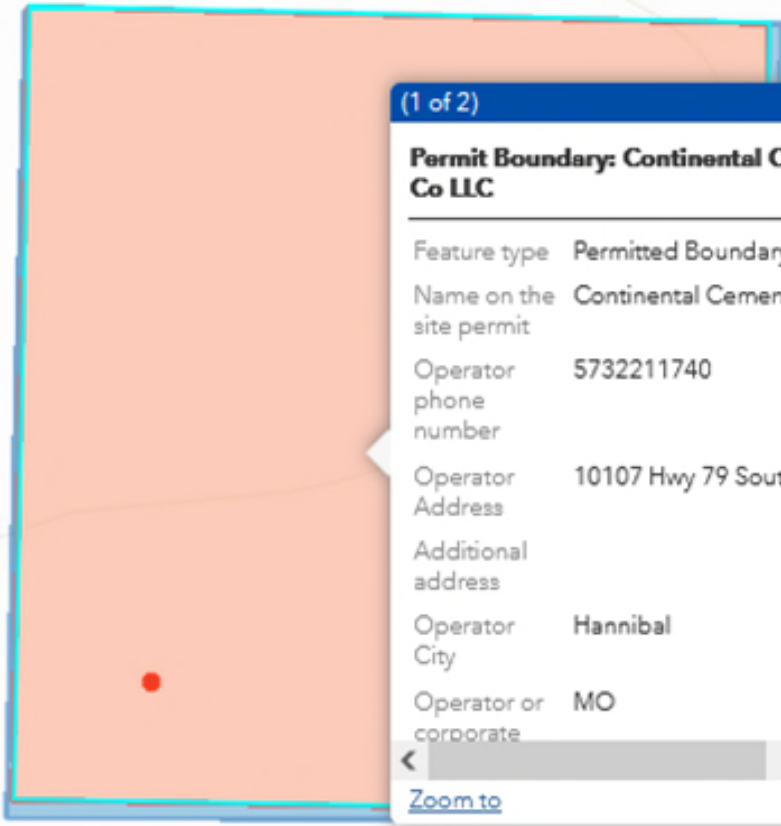


4TH ST

3787  
4TH ST

612

4TH ST



(1 of 2)

**Permit Boundary: Continental Cement Co LLC**

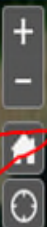
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Feature type	Permitted Boundary
Name on the site permit	Continental Cement Co LLC
Operator phone number	5732211740
Operator Address	10107 Hwy 79 South
Additional address	
Operator City	Hannibal
Operator or corporate	MO

[Zoom to](#) ...



Find address or place



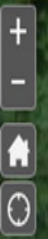
Basemap Gallery

Charted Territory Map	Colored Pencil Map	Community Map	Dark Gray Canvas	Enhanced Contrast Dark
Enhanced Contrast Map	Firefly Imagery Hybrid	Human Geography Dark	Human Geography Map	Imagery
Imagery Hybrid	Light Gray Canvas	Mid-Century Map	Modern Antique Map	NAIP Imagery Hybrid
National Geographic Style	Navigation	Navigation (Dark)	Newspaper Map	Nova Map
Oceans	OpenStreetMap	OpenStreetMap (Blueprint)	Outline Map	Streets

4th St  
4th St  
4th St



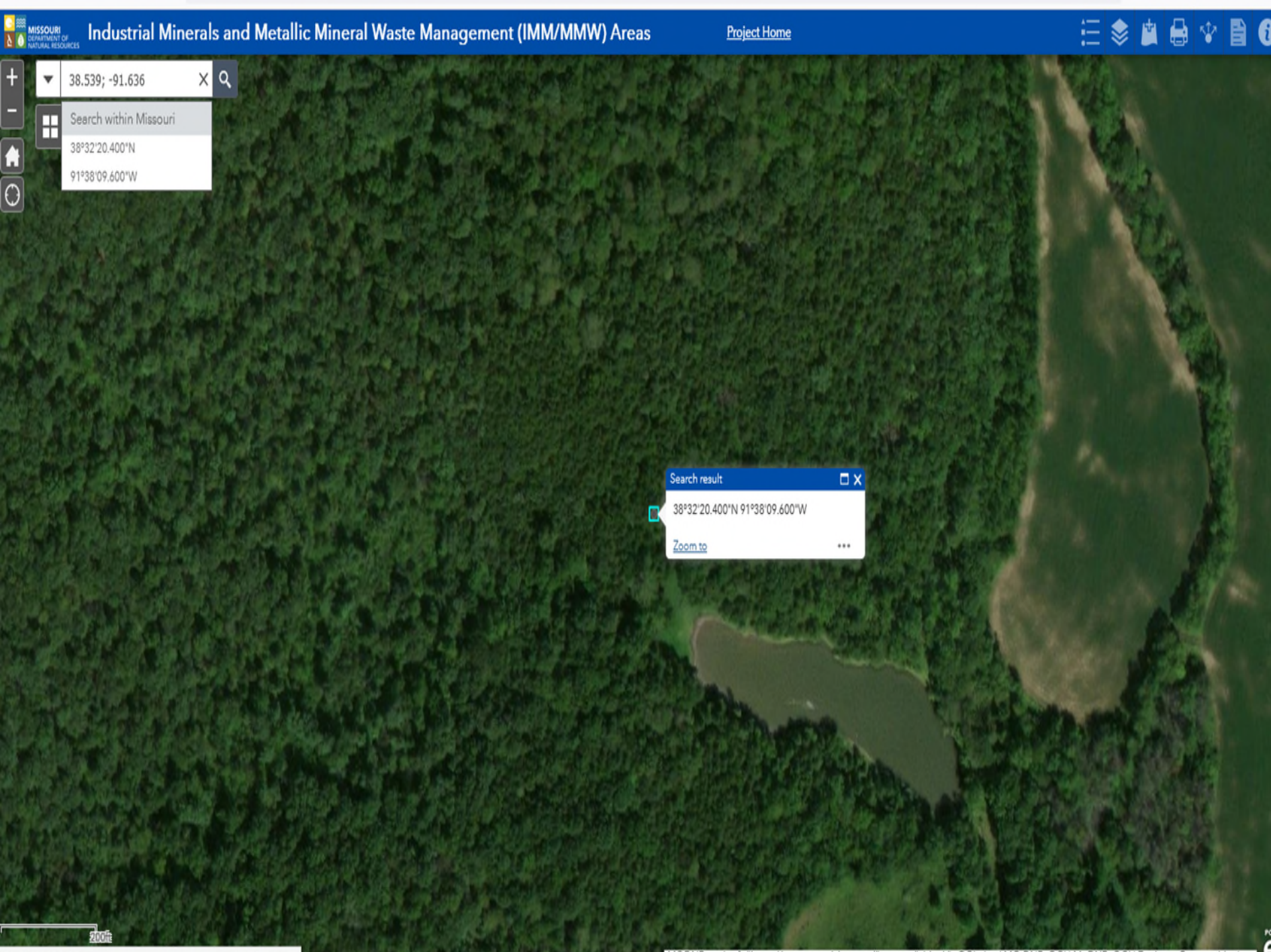




38.539; -91.636 X Q

Search within Missouri

38°32'20.400"N  
91°38'09.600"W



Search result [X]

38°32'20.400"N 91°38'09.600"W

[Zoom to](#) ...



texas county, mo

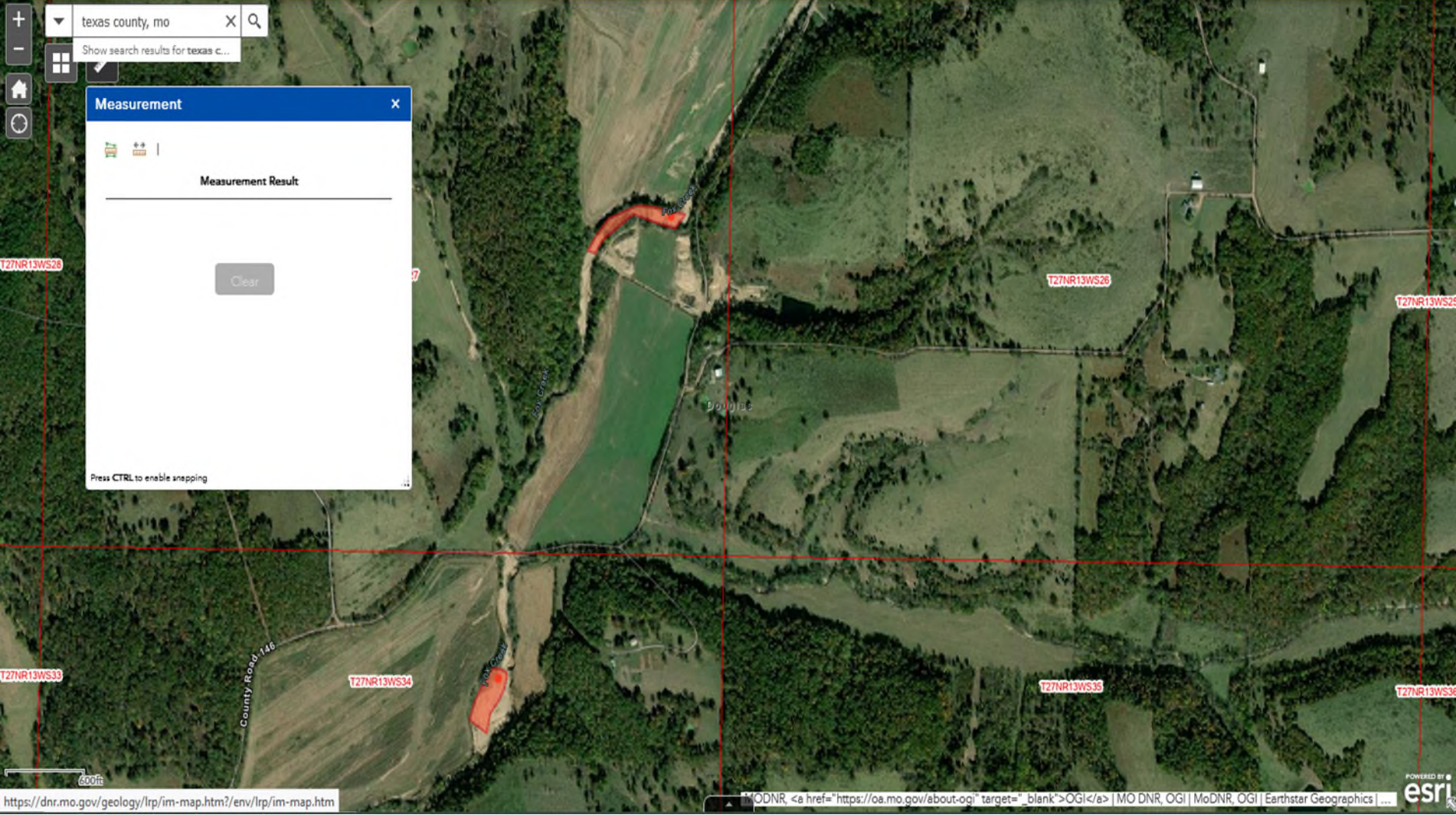
Show search results for texas c...

### Measurement

Measurement Result

Clear

Press CTRL to enable snapping





# Measurement Tool

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Industrial Minerals and Metallic Mineral Waste Management (IMM/MMW) Areas

Project Home

texas county, mo

Show search results for texas c...

Measurement

Hectares

Measurement Result

27.2 Hectares

Clear

Press CTRL to enable snapping

600ft

County Road 146

T27NR13WS26

T27NR13WS34

T27NR13WS35

MODNR, <a href="https://oa.mo.gov/about-ogi" target="\_blank">OGI</a> | MO DNR, OGI | MoDNR, OGI | Earthstar Geographics | ...

POWERED BY ESRI



# Sunshine Law Requests:

MISSOURI DEPARTMENT OF NATURAL RESOURCES Industrial Minerals and Metallic Mineral Waste Management (IMM/MMW) Areas Project Home

Find address or place

Layer List

Layers

- Effective Mine Sites
- Effective Mine Boundaries
- Metallic Mineral Waste Areas
- PLSS
- Township
- County
- Imagery - NAIP 2020 - MSDIS
- Imagery - NAIP 2016 - MSDIS
- Imagery - DOQQ 2008 (Leaf Off) - MSDIS
- Imagery - DOQQ 1990 (Leaf Off) - MSDIS
- Imagery - DOQQ 2015 (Leaf Off) - MSDIS
- Imagery - 2022 Statewide (MARC, leaf-off) - MSDIS
- Imagery - 2022 Statewide (Southern Half, Leaf Off) - MSDIS

Washington 2m

MODNR, <a href="https://oa.mo.gov/about-ogi" target="\_blank">OGI</a> | MO DNR

# Current Users in LRIS

Percentage of Companies in LRIS	Percent of Users In LRIS	Percent Sites With Users in LRIS
41.85%	38.96%	62.46%













- Land Reclamation Program  
573-751-4041

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