

## INSPECTION REPORT

<b>Inspection Date(s):</b>	04/20/2022 - 04/20/2022	Announced: No
<b>Time:</b>	Entry: 10:12 AM (CT)	Exit: 11:07 AM (CT)

<b>Media:</b>	Water
<b>Statute(s)/Program(s):</b>	Clean Water Act, NPDES
<b>Type of inspection:</b>	CEI - Compliance Evaluation Inspection
<b>Access:</b>	Granted
<b>Permittee Name:</b> Falling Springs Quarry	
<b>Facility or Site Name:</b> Falling Springs Quarry	
<b>Facility/Site Physical Address:</b> 2901 Stolle Road	
<b>(City, state, zip code)</b> Dupo, IL 62239	
<b>County/Parish:</b> St. Clair County	
<b>Facility GPS Coordinates:</b> 38.543481, -90.169735	
<b>Mailing address: (If different)</b>	
<b>(City, state, zip code)</b>	
<b>Facility/Site Identifier:</b> Falling Springs Quarry	
<b>Permit Number:</b> No NPDES Permit	
<b>SIC or NAICS:</b> NAICS 1422	

**Persons Participating in Inspection:**

Title	Name	Phone	Email	Present at Opening Conf.	Present at Closing Conf.
Lead Inspector	Joan Rogers	3128862785	rogers.joan@epa.gov	Yes	Yes
Inspector	Cheryl Burdett	(312) 886-1463	burdett.cheryl@epa.gov	Yes	Yes
President	Ann Cramer	(618) 337-3343	kaccasperstolle@hotmail.com	Yes	Yes
Vice President	Tom Cramer	(618) 337-5212	tcramer@csq-fsq.com	Yes	Yes
Plant Manager	Dan Doerr			Yes	Yes
Inspector	Wayne Caughman		wayne.caughman@illinois.gov	Yes	Yes

**Lead Inspector:**

Joan Rogers	<i>[Signature]</i>		<i>[Date]</i>
	Region 5	rogers.joan@epa.gov	(312) 886-2785
<b>Supervisor Review:</b>			
Ryan Bahr	<i>[Signature]</i>	MOLLY SMITH	<i>[Date]</i>
	Region 5	bahr.ryan@epa.gov	

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MOLLY SMITH  
Date: 2022.06.16  
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**SECTION I – INTRODUCTION**

**Site Entry and Inspection Objectives**

Industrial Storm Water Inspection at a Quarry.

Region 5 Lead Inspector, Joan Rogers, arrived at the offices of the Casper Stolle Quarry & Contracting Company (CSQ) located at 2901 Stolle Road, at 8:57 AM (CT) on 04/20/2022. EPA inspectors, Ms. Rogers and Ms. Burdett, and IEPA inspector, Mr. Caughman, presented credentials to Ms. Ann Cramer, President of Casper Stolle Quarry Company. Ms. Rogers informed her that this was a Region 5 inspection to determine compliance with the Clean Water Act (CWA) and the National Pollutant Discharge Elimination System (NPDES) permit program. The discussion in the office encompassed the two quarries owned by CSQ, the Casper Stolle Quarry and the Falling Springs Quarry. Following the field portion of the inspection of the Casper Stolle Quarry, EPA and IDEM inspectors traveled to the Falling Springs Quarry (“Site” or “Facility”).

The inspection was conducted by the Region 5 NPDES program, under the authority of the Federal CWA Section 308. The table above identifies the attendees that participated in the inspection. This report is based on information supplied by Falling Springs Quarry representatives, observations made by the Region 5 inspector, and records and reports maintained by the permittee and the Region 5 including: direct observations made by the Region 5 Inspector(s), photographs taken by Region 5 inspector(s), physical evidence collected by the Region 5 inspector(s), measurements taken by Region 5 inspector(s), verbal or written statements made by information supplied by Falling Springs Quarry representatives (the permittee) during or subsequent to the on-site inspection, and materials, processes, data, photographs, or documents shown, demonstrated, or submitted to the Region 5 inspector(s) by Falling Springs Quarry representatives during or subsequent to the on-site inspection. In addition, information gathered prior to or after the inspection from a review of USEPA, State, and public records may be included in this report.

Ms. Cramer explained that the Falling Springs Quarry does not have an NPDES Permit because that facility is a closed-loop system. Storm water that falls on the quarry is either directed to basins, called the Sand Pits, or is used for dust suppression. The basins are former sand pits with no surface discharge to receiving waterways.

During the interview, Ms. Cramer called for the Vice-President, Mr. Tom Cramer, to join the inspection team. When he arrived, the inspectors presented credentials to him, also. Mr. Cramer presented documentation for the Casper Stolle Quarry NPDES Permit, numbered ILG840052. Mr. Dan Doerr, Plant Manager arrived at the Stolle office. The facility personnel stated that they have Storm Water Pollution Prevention Plans (SWPPPs) for each quarry and are in the process of combining them into one SWPPP.

Ms. Rogers requested that the SWPPP for the Falling Springs Quarry be sent electronically via email following the inspection.

**Facility/Site Description**

Region 5 lead inspector confirmed the following facility information:

The Falling Springs Quarry is a limestone quarry in St. Clair County, Illinois. In 1892, the family-owned Casper Stolle Quarry Company incorporated, and the corporation is named the Casper Stolle Quarry and Contracting Company, Inc. CSQ purchased the Falling Springs Quarry in 1986. The quarry is approximately 400 acres, with approximately 200 acres that are permitted for quarrying.

At the time of the inspection, the quarry itself was approximately 400' deep. Storm water that falls on the quarry is directed to the middle of the quarry where it collects. A floating 75 horsepower pump in the pit pumps water into piping that goes up the side of the pit. The pipe outlets into a ditch that leads to one of two basins at the northwest corner of the site. The basins are interconnected when the depth of the water in the first basin reaches a certain depth. These basins are called the Sand Pits. Neither have an outfall to a receiving waterway. Storm water in the basins either evaporates or infiltrates. Valving on the piping allows the facility personnel to divert pit water to tanker trucks for dust suppression at the quarry.

Facility personnel stated that they have not had a significant material spill, but they have a containment plan should there be one.

Since there is no discharge from the Falling Springs Quarry, the facility has not sought coverage under an NPDES Permit.

**SECTION II – OBSERVATIONS**

<b>Location:</b> Falling Springs Quarry Overview		<b>Contains CBI:</b> No	
<b>Observation #:</b> JR4-OB-001		<b>Date:</b> 05/19/2022	
<p>At 10:12 A.M., EPA inspectors, Ms. Rogers and Ms. Burdett and IEPA inspector, Mr. Caughman (Inspection Team) began the field tour of the Falling Springs Quarry with Mr. Cramer in his truck. Mr. Cramer stopped the truck on an access road for an overview of the quarry and pit water below. The Falling Springs Quarry is an active quarry.</p> <p>On the access road, Mr. Cramer explained that there is approximately 30-40 feet of overburden on top of the limestone cap. Limestone that is mixed with soil is piled inside the quarry and is not usable. Once the overburden has been removed, facility personnel blast off rock from the face of the cap. The pile of limestone that has been blasted off is then moved by truck to a nearby crusher. Smaller pieces of limestone, called fines, fall through the crusher floor and are conveyed to the other side of the quarry where the pieces are crushed further, if need be, and stored according to the sizes needed for the customer. Mr. Cramer stated that 2000-2400 tons of limestone is crushed per hour. CSQ can make 45 different products.</p> <p>Limestone that goes through the crusher is piled on top of a tunnel that has a conveyor belt running through it. Three-foot-thick concrete walls prevent the pile of limestone from collapsing the tunnel. The limestone drops through an opening at the top of the tunnel and onto the conveyor which transports the crushed limestone to the storage area.</p> <p>Mr. Cramer then drove to the floor of the quarry and the inspectors observed the operations at the face of the limestone cap, the tunnel under the pile of crushed limestone and the area where the final product is stored. The inspection team also observed the pit where the storm water collects, the piping and valving for dewatering the pit, and the Sand Pits. There was approximately 10'-15' of freeboard in the Sand Pits, although it was difficult to get a clear view because of the tall vegetation around the basins.</p>			

Mr. Cramer and the Inspection Team exited the Falling Springs Quarry at 11:07 A.M.

**SECTION III – RECORDS REVIEW**

<b>Record:</b> Other – SWPPP	<b>AOC:</b> No
<b>Ref #:</b> JR4-RR-001 <b>Reviewed By:</b> Joan Rogers	<b>Reviewed Date:</b> 05/24/2022
<p>Since the Falling Springs Quarry has not identified a surface water discharge, and hence no NPDES Permit, they are not required to have a SWPPP. CSQ has prepared a SWPPP for the quarry in the spirit of the conditions of the NPDES General Permit No. ILG84. The comment below by EPA on the SWPPP is not an Area of Concern.</p> <p>The digital version of the SWPPP provided to EPA was not signed by the facility representative and did not have the signature and title of the plan preparer.</p>	
<b>Document(s)</b>	
<ol style="list-style-type: none"> <li>1. 150-035 0011 Final Falling Springs Quarry SWPP Plan - May 2015.pdf</li> </ol>	

**SECTION IV – SAMPLING ACTIVITIES AND ANALYTICAL RESULTS**

**No sampling was conducted.**

**SECTION V - AREAS OF CONCERN**

There are no Areas of Concern.

**SECTION VI – CLOSING CONFERENCE AND FOLLOW UP**

**Closing Conference**

Ms. Rogers provided a closing conference at 11:07 AM (CT) on April 20, 2022, to Mr. Cramer following the site visit at the Falling Springs Quarry. Ms. Cramer and Mr. Doerr were also present during the closing conference. Ms. Rogers reiterated the request for documents to be sent electronically and stated that she didn't identify any areas of concern on the field tour.

Ms. Cramer stated in the opening conference information shared was not considered confidential business information (CBI), but photos taken were claimed to be CBI.

Observations and Areas of Concern have not yet been evaluated for a formal compliance determination.

**Follow Up**

There was no follow up after the inspection on April 20, 2022.

**Communication Log**

Ms. Rogers received the requested documents via email on April 27, 2022.

**SECTION VII – LIST OF APPENDICES**

1. Photo Log – CBI was claimed for the photos.
2. Document Log

**APPENDIX 1: PHOTOLOG**

**Falling Springs Quarry  
EPA Inspection April 20, 2022  
All photos taken by Cheryl Burdett, Life Scientist/Inspector, U.S. EPA  
Camera: Olympus Tough TG-4**



1: P4200010

Description: The active Falling Springs Quarry. The rock face directly across from photographer is the active face. Below approximately 30-40' of overburden is the limestone cap.

Location: The facility's access road on the north side.

Camera Direction: South.

Date/Time: April 20, 2022/10:14 A.M.



2: P4200011

Description: Dirt and limestone mix is internally dumped on the east side. Yellow arrow is pointing at the dirt and limestone mix.

Location: The facility's access road on the north side.

Camera Direction: Southeast.

Date/Time: April 20, 2022/10:15 A.M.



3: P4200012

Description: Limestone crushing operation in the Falling Springs Quarry.

Location: The facility's access road on the north side.

Camera Direction: Southwest.

Date/Time: April 20, 2022/10:16 A.M.



4: P4200013

Description: Limestone crushing operation in the Falling Springs Quarry.

Location: The facility's access road on the north side.

Camera Direction: Southwest.

Date/Time: April 20, 2022/10:16 A.M.



5: P4200014

Description: Limestone is crushed and then piled in the quarry.

Location: In the Falling Springs Quarry.

Camera Direction: East.

Date/Time: April 20, 2022/10:24 A.M.



6: P4200015

Description: The crushed rocks are piled on top of a steel tunnel with three foot concrete walls around it. The tunnel contains the conveyor belt for transporting the crushed rock.

Location: In the Falling Springs Quarry.

Camera Direction: North.

Date/Time: April 20, 2022/10:26 A.M.



7: P4200016

Description: The conveyor exits the tunnel under the pile of crushed rock.

Location: In the Falling Springs Quarry.

Camera Direction: Southwest.

Date/Time: April 20, 2022/10:28 A.M.



8: P4200017

Description: The conveyor transports the rock (circled with a yellow circle) from under the pile of crushed rock.

Location: In the Falling Springs Quarry.

Camera Direction: West.

Date/Time: April 20, 2022/10:28 A.M.



9: P4200018

Description: The pit in the Falling Springs Quarry has a floating pump which pumps pit water up the side of the quarry. The pit is on the northeast side of the quarry.

Location: In the Falling Springs Quarry.

Camera Direction: Southwest.

Date/Time: April 20, 2022/10:30 A.M.



10: P4200019

Description: The water in the pit at Falling Sprins Quarry.

Location: In the Falling Springs Quarry.

Camera Direction: Southwest.

Date/Time: April 20, 2022/10:30 A.M.



11: P4200020

Description: Trucks scoop up the limestone after it is blasted off the face of the cap.

Location: In the Falling Springs Quarry.

Camera Direction: Southwest.

Date/Time: April 20, 2022/10:37 A.M.



12: P4200021

Description: The trucks dump the limestone into a crusher.

Location: In the Falling Springs Quarry.

Camera Direction: East.

Date/Time: April 20, 2022/10:41 A.M.



13: P4200022

Description: The fines – smaller pieces of limestone – fall to the bed of the conveyor. The larger pieces go through the crusher.

Location: In the Falling Springs Quarry.

Camera Direction: East.

Date/Time: April 20, 2022/10:41 A.M.



14: P4200023

Description: The fines – smaller pieces of limestone – fall to the bed of the conveyor. The larger pieces go through the crusher.

Location: In the Falling Springs Quarry.

Camera Direction: East.

Date/Time: April 20, 2022/10:41 A.M.



15: P4200024

Description: Valves on the water line allow the water to be directed to a ditch which goes to the sand lakes or to trucks for dust suppression.

Location: In the Falling Springs Quarry.

Camera Direction:

Date/Time: April 20, 2022/10:44 A.M.



16: P4200025

Description: The ditch which allows flow to go to the sand lakes.

Location: In the Falling Springs Quarry.

Camera Direction: Southwest.

Date/Time: April 20, 2022/10:46 A.M.



17: P4200026

Description: The sand lakes accept pit water and the water evaporates and infiltrates. There is no outlet for the sand lakes to waters of the United States.

Location: Southwest side of the Falling Springs Quarry.

Camera Direction: South.

Date/Time: April 20, 2022/10:49 A.M.



18: P4200027

Description: There was at least ten to fifteen feet of freeboard in the sand lakes.

Location: Southwest side of the Falling Springs Quarry.

Camera Direction: South.

Date/Time: April 20, 2022/10:49 A.M.

**APPENDIX 2: DOCUMENT LOG**

Document Type	Document Name	Contains CBI	Contains PII	Uploaded By	Date Received
Facility Map	FallingSpringsQuarryand CasperStolleQuarry.pdf	No	No	Joan Rogers	04/27/2022
Other - SWPPP	150-035 0011 Final Falling Springs Quarry SWPP Plan - May 2015.pdf	No	No	Joan Rogers	04/27/2022
Field Inspection Notes	Field_Notes_ILU000957v1.0.pdf	No	No	Joan Rogers	04/20/2022