



CEMEX Lyons - Q2 2022 C-pit monitoring report

1 message

Scott A Harcus <scotta.harcus@cemex.com>
To: "patrick.lennberg@state.co.us" <patrick.lennberg@state.co.us>
Cc: Maribel B Aguilos <maribelb.aguilos@cemex.com>

Fri, Jul 29, 2022 at 8:08 PM

Hello Mr. Lennberg –

Please find the attached C-pit monitoring report for 2nd Quarter of 2022. The “wet” copy should arrive via FedEx early next week.

If you and the Division are willing to accept electronic copies moving forward, kindly let me know as that would be preferred.

Let me know if you have any questions.

Regards,


Scott



Scott A. Harcus

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 **CMX Lyons_C-Pit GW Report Y22Q2 Results_Fnl_2022.07.29.pdf**
174K



July 29, 2022

Patrick Lennberg
Division of Reclamation, Mining and Safety
Environmental Protection Specialist
1313 Sherman Street, Room 215
Denver, Colorado 80203

Via FEDEX
TRK # 7775 2999 2936

Re: CEMEX Lyons Mine Permit M-1977-208
Technical Revision No. 12, Revised Groundwater Monitoring Plan
Second Quarter 2022 Monitoring Data

Dear Patrick Lennberg:

This letter transmits the surface water and groundwater data associated with the sampling of the cement kiln dust disposal area (C-Pit). This report includes data from the C-Pit ponded water and related groundwater monitoring for the second quarter of 2022, covering the reporting period from April 1, 2022 to June 30, 2022. Table 1 presents data for the last four quarters.

Groundwater samples were collected on May 18, 2022 from the CEM-001 and CEM-004 groundwater monitoring wells, and from the C-Pit ponded water. The inspection of groundwater monitoring well CEM-005 on May 18, 2022 indicated that there was not enough water volume to collect a representative sample.

The samples collected from C-Pit ponded water and the groundwater monitoring wells were analyzed for pH, chloride, sulfate, total dissolved solids, selenium, and thallium. The reported pH data are based on the pH analyses performed at the time of sample collection in the field (Table 1). The measured pH at groundwater monitoring well CEM-004 and analytical results for chloride, sulfate, total dissolved solids (TDS), selenium and thallium from the May 18, 2022 groundwater sample were within the target levels prescribed by TR-12, as shown in Table 1.

In addition, a Stiff Diagram of the groundwater cation/anion data from CEM-004 compared to the average and 90th percentile of the cation/anion concentrations from the last four quarterly samples of C-Pit data is provided in Figure 1 for reference. As shown in Figure 1 and consistent with past reports, the signature for CEM-004 continues to be significantly different from that of C-Pit.

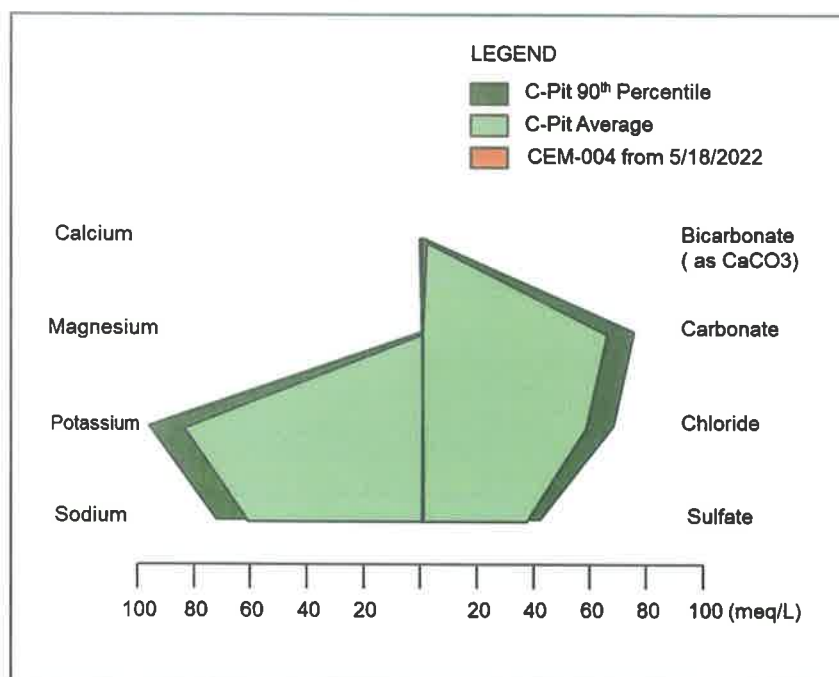


Figure 1: Second quarter 2022 cation/anion data for CEM-004 compared to C-Pit

Please contact me at 303-823-2124 or by email at scotta.harcus@cemex.com for any questions or concerns regarding this submittal.

Sincerely,

Scott A. Harcus
Environmental Manager

Encs. Y22Q2C-Pit Monitoring Report and associated Stiff Plot (Fig.1), and Summary of Analytical Results (Table 1)

Table 1
Summary of Analytical Results

Parameter	Units	C-Pit				CEM-001				CEM-004				CEM-005				CEM-004, CEM-005 Triggers (TR-12)
		2021 Q3	2021 Q4	2022 Q1	2022 Q2	2021 Q3	2021 Q4	2022 Q1	2022 Q2	2021 Q3	2021 Q4	2022 Q1	2022 Q2	2021 Q2	2021 Q3	2021 Q4	2022 Q1	
		8/12/2021	11/10/2021	3/15/2022	5/18/2022	8/12/2021	11/10/2021	3/15/2022	5/18/2022	8/13/2021	11/10/2021	3/15/2022	5/18/2022	a See dates below	a See dates below	a See dates below	a See dates below	
		value	value	value	value	value	value	value	value	value	value	value	value	value	value	value	value	
pH (On-site)	su	11.9	12.4	11.41	11.81	8.3	8.24	8.24	7.85	7.51	8.8	7.48	7.72	insufficient water to sample	insufficient water to sample	insufficient water to sample	insufficient water to sample	6.5-8.5
Chloride	mg/L	1930	2440	1580	2270	1810	1610	1610	1580	0.58	58.1	129	5.6					1,053
Sulfate	mg/L	1580	2030	1550	1910	34.3	7	7	3.2	1.2	428	880	12.4					2,641
Total Dissolved Solids	mg/L	8030	8550	8360	11100	2570	4460	4460	3930	83	776	1800	66					501-10,000 or 1.25 times background
Selenium	mg/L	0.690	0.787	0.475	0.688	<0.0008	<0.005	<0.005	<0.0008	<0.0004	0.0020	<0.005	<0.0008					0.05
Thallium	mg/L	0.0028	0.0025	<0.004	0.0020	<0.0004	<0.004	<0.004	<0.0004	<0.0002	<0.0004	<0.004	<0.0004					0.002

Notes and Qualifiers:

H Sample analyzed beyond recommended hold time
U Detection limit is estimated
UJ Estimated low
X Data may not be representative due to nonstandard field sampling protocol
NA Not analyzed.
value Exceeds trigger

^a CEM 005 Y21 Q3 Well Sounding: 8/12/2021

^a CEM 005 Y21 Q4 Well Sounding: 11/10/2021

^a CEM 005 Y22 Q1 Well Sounding: 3/15/2022

^a CEM 005 Y22 Q2 Well Sounding: 5/18/2022