

Kevin Oei

From: Nancy Rieser <(REDACTED)>
Sent: Thursday, December 15, 2022 11:11 PM
To: CommentsP66RodeoRenewed
Cc: (REDACTED)

Subject: BAAQMD P66 permit reponse: 2nd of 2 emails
Attachments: CAM CCR 17 Metal Batch Chart.docx; McCampbell Test summaries for 2017 and 2022.pdf

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Hello,

Please find below the two attachments "CAM CCR 17 Metal Batch Chart" and "McC Campbell Test Summaries for 2017 and 2022" referenced in issue #3 in the previous email.

Nancy

CAM/CCR 17 METALS Misc. Elements	Reporting Limits	5 years ago Date: 8/25/17			Batch #252164 Date: 08/19/22		Batch #254215 Date: 09/20/22				
		Sample ID#	Sample ID#	Sample ID#	Sample ID#	Sample ID#	Sample ID#	Sample ID#	Sample ID#	Sample ID#	
		1708C74-A	2208C88-001A	2208B49-002A	2209A80-002A	2209A80-003A	2209A80-004A	2209A80-005A	2209A80-001A		
Antimony	0.50	ND	6.2	1.1	2.1	0.75	3.8	0.74	0.75		
Arsenic	0.50	ND	2.6	0.77	0.71	0.64	2.8	ND	ND		
Barium	5.0	ND	120.0	23.0	34.0	22.0	160.0	16.0	21.0		
Beryllium	0.50	ND	ND	ND	ND	ND	ND	ND	ND		
Cadmium	0.25	ND	0.27	ND	ND	ND	ND	ND	ND		
Chromium	0.50	0.59	20.0	4.6	4.6	4.5	26.0	2.3	4.0		
Cobalt	0.50	ND	6.2	1.6	1.1	5.3	7.0	0.62	1.1		
Copper	0.50	3.3	79.0	19.0	23.0	17.0	88.0	20.0	13.0		
Lead	0.50	0.91	45.0	21.0	10.0	11.0	27.0	12.0	10.0		
Mercury	0.050	ND	0.33	0.085	ND	0.065	0.34	ND	ND		
Molybdenum	0.50	ND	2.5	0.50	1.0	ND	3.7	ND	ND		
Nickel	0.50	0.57	21.0	5.6	5.4	27.0	26.0	2.9	4.1		
Potassium	50.0	260	-----	-----	----	-----	-----	-----	-----		
Selenium	0.50	ND	ND	ND	ND	ND	ND	ND	ND		
Silver	0.50	ND	ND	ND	0.58	ND	0.56	2.6	ND		
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND		
Vanadium	0.50	ND	24.0	8.7	6.5	6.6	34.0	3.8	6.3		
Zinc	5.0	11.0	290.0	170.0	190.0	210.0	670.0	61.0	110.0		

"-----": CAM CCR 17 no long tests for Potassium

Two samples in yellow on the far right of chart: These swipes taken from car windows with a limited exposure time of 4-5 days

CAM/CCR 17 METAL TESTS

From samples taken from cars in Crockett in 2017 and 2022

2017: Neighbors took samples of rust-colored drips off of multiple cars. Five years ago, there was NO glittery, metallic films on our cars, just drips.

Those swipes tested positive for:

- Chromium
- Copper
- Lead
- Nickel
- Potassium
- Zinc

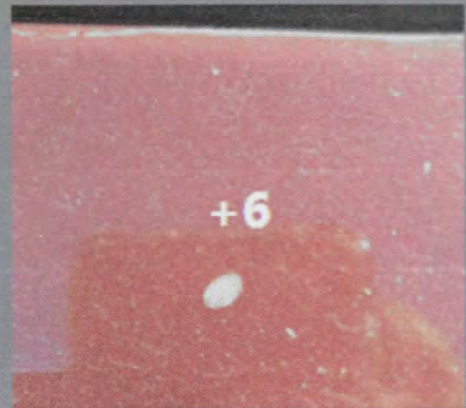
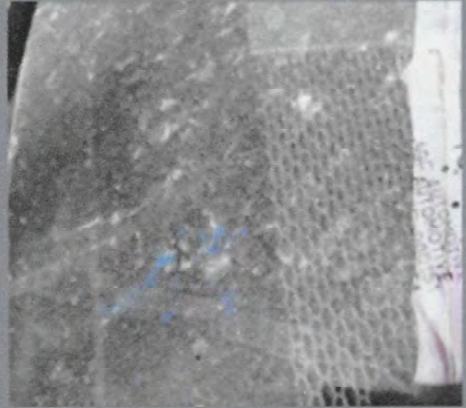
2022: Now there is a glittery metallic sheen along with the rust-colored drips (see attached photos). The test results from the swabs found the same 6 elements from found in the 2017 swabs, yet in dramatically increased amounts.

In addition, the swipes also tested positive for 9 more elements:

- Antimony
- Arsenic
- Barium
- Cadmium
- Cobalt
- Mercury
- Molybendum
- Silver
- Vanadium

Also, swabs were collected off of cars and tested specifically for Amines. Those swabs tested positive for:

- N-Methyl Diethanolomine
- Triethanolomine



2017

Cam/CCR 17 Metals



Analytical Report

Client: C.R.U.D.E FIELD GROUP
Date Received: 8/25/17 14:22
Date Prepared: 8/25/17
Project: C-001; Residue 2017-a

WorkOrder: 1708C74
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals + Misc. Elements

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Grockett 2017-A	1708C74-001A	Solid	08/20/2017 18:00	ICP-MS2	144424

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	08/30/2017 17:06
Arsenic	ND	0.50	1	08/30/2017 17:06
Barium	ND	5.0	1	08/30/2017 17:06
Beryllium	ND	0.50	1	08/30/2017 17:06
Cadmium	ND	0.25	1	08/30/2017 17:06
Chromium	0.59	0.50	1	08/30/2017 17:06
Cobalt	ND	0.50	1	08/30/2017 17:06
Copper	3.3	0.50	1	08/30/2017 17:06
Lead	0.91	0.50	1	08/30/2017 17:06
Mercury	ND	0.050	1	08/30/2017 17:06
Molybdenum	ND	0.50	1	08/30/2017 17:06
Nickel	0.57	0.50	1	08/30/2017 17:06
Potassium	260	50	1	08/30/2017 17:06
Selenium	ND	0.50	1	08/30/2017 17:06
Silver	ND	0.50	1	08/30/2017 17:06
Thallium	ND	0.50	1	08/30/2017 17:06
Vanadium	ND	0.50	1	08/30/2017 17:06
Zinc	11	5.0	1	08/30/2017 17:06
Surrogates	REC (%)	Limits		
Terbium	103	70-130		08/30/2017 17:06

Analyst(s): ND

2022

Cam/CCR 17 Metals

Swabs were collected in two batches.

- Batch #1: 2 cars
- Batch #2: 5 cars.



Analytical Report

Client: C.R.U.D.E FIELD GROUP
Date Received: 08/18/2022 12:45
Date Prepared: 08/19/2022
Project: 2022 P66 Residue

WorkOrder: 2208C88
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: µg/wipe

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
3-444-Auto	2208C88-001A	Wipe	08/17/2022 15:45	ICP-MS4 146SMPLd	252164

Analytes	Result	RL	DF	Date Analyzed
Antimony	6.2	0.50	1	08/22/2022 18:22
Arsenic	2.6	0.50	1	08/22/2022 18:22
Barium	120	5.0	1	08/22/2022 18:22
Beryllium	ND	0.50	1	08/22/2022 18:22
Cadmium	0.27	0.25	1	08/22/2022 18:22
Chromium	20	0.50	1	08/22/2022 18:22
Cobalt	6.2	0.50	1	08/22/2022 18:22
Copper	79	0.50	1	08/22/2022 18:22
Lead	45	0.50	1	08/22/2022 18:22
Mercury	0.33	0.050	1	08/22/2022 18:22
Molybdenum	2.5	0.50	1	08/22/2022 18:22
Nickel	21	0.50	1	08/22/2022 18:22
Selenium	ND	0.50	1	08/22/2022 18:22
Silver	ND	0.50	1	08/22/2022 18:22
Thallium	ND	0.50	1	08/22/2022 18:22
Vanadium	24	0.50	1	08/22/2022 18:22
Zinc	290	5.0	1	08/22/2022 18:22

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	96	70-130	08/22/2022 18:22

Analyst(s): MIG

Batch #1



Analytical Report

Client: C.R.U.D.E FIELD GROUP
Date Received: 08/16/2022 16:50
Date Prepared: 08/19/2022
Project: 2022 P66 Residue

WorkOrder: 2208B49
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: µg/wipe

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
2-444-Auto	2208B49-002A	Wipe	08/16/2022 14:00	ICP-MS4 145SMPL.d	252164

Analytes	Result	RL	DF	Date Analyzed
Antimony	1.1	0.50	1	08/22/2022 18:18
Arsenic	0.77	0.50	1	08/22/2022 18:18
Barium	23	5.0	1	08/22/2022 18:18
Beryllium	ND	0.50	1	08/22/2022 18:18
Cadmium	ND	0.25	1	08/22/2022 18:18
Chromium	4.6	0.50	1	08/22/2022 18:18
Cobalt	1.6	0.50	1	08/22/2022 18:18
Copper	19	0.50	1	08/22/2022 18:18
Lead	21	0.50	1	08/22/2022 18:18
Mercury	0.085	0.050	1	08/22/2022 18:18
Molybdenum	0.50	0.50	1	08/22/2022 18:18
Nickel	5.6	0.50	1	08/22/2022 18:18
Selenium	ND	0.50	1	08/22/2022 18:18
Silver	ND	0.50	1	08/22/2022 18:18
Thallium	ND	0.50	1	08/22/2022 18:18
Vanadium	8.7	0.50	1	08/22/2022 18:18
Zinc	170	5.0	1	08/22/2022 18:18

Surrogates	REC (%)	Limite	Date Analyzed
Terbium	92	70-130	08/22/2022 18:18

Analyst(s): MIG

Batch #1



Analytical Report

Client: C.R.U.D.E FIELD GROUP
Date Received: 09/16/2022 19:17
Date Prepared: 09/20/2022
Project: 2022 P66 Residue

WorkOrder: 2209A80
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: µg/wipe

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
5-Edwards .465	2209A80-002A	Wipe	09/06/2022 09:15	ICP-MS3 049SMPL.D	254215

Analytes	Result	RL	DF	Date Analyzed
Antimony	2.1	0.50	1	09/20/2022 16:37
Arsenic	0.70	0.50	1	09/20/2022 16:37
Barium	34	5.0	1	09/20/2022 16:37
Beryllium	ND	0.50	1	09/20/2022 16:37
Cadmium	ND	0.25	1	09/20/2022 16:37
Chromium	4.6	0.50	1	09/20/2022 16:37
Cobalt	1.1	0.50	1	09/20/2022 16:37
Copper	23	0.50	1	09/20/2022 16:37
Lead	10	0.50	1	09/20/2022 16:37
Mercury	ND	0.050	1	09/20/2022 16:37
Molybdenum	1.0	0.50	1	09/20/2022 16:37
Nickel	5.4	0.50	1	09/20/2022 16:37
Selenium	ND	0.50	1	09/20/2022 16:37
Silver	0.58	0.50	1	09/20/2022 16:37
Thallium	ND	0.50	1	09/20/2022 16:37
Vanadium	6.5	0.50	1	09/20/2022 16:37
Zinc	190	5.0	1	09/20/2022 16:37

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	94	70-130	09/20/2022 16:37

Analyst(s): MIG

Batch #2

(Cont.)



Analytical Report

Client: C.R.U.D.E FIELD GROUP
Date Received: 09/16/2022 19:17
Date Prepared: 09/20/2022
Project: 2022 P66 Residue

WorkOrder: 2209A80
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: µg/wipe

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
6- Clark .312	2209A80-003A	Wipe	09/06/2022 09:45	ICP-MS4 190SMPL.d	254215
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	0.75		0.50	1	09/20/2022 16:38
Arsenic	0.64		0.50	1	09/20/2022 16:38
Barium	22		5.0	1	09/20/2022 16:38
Beryllium	ND		0.50	1	09/20/2022 16:38
Cadmium	ND		0.25	1	09/20/2022 16:38
Chromium	4.5		0.50	1	09/20/2022 16:38
Cobalt	5.3		0.50	1	09/20/2022 16:38
Copper	17		0.50	1	09/20/2022 16:38
Lead	11		0.50	1	09/20/2022 16:38
Mercury	0.065		0.050	1	09/20/2022 16:38
Molybdenum	ND		0.50	1	09/20/2022 16:38
Nickel	27		0.50	1	09/20/2022 16:38
Selenium	ND		0.50	1	09/20/2022 16:38
Silver	ND		0.50	1	09/20/2022 16:38
Thallium	ND		0.50	1	09/20/2022 16:38
Vanadium	6.6		0.50	1	09/20/2022 16:38
Zinc	210		5.0	1	09/20/2022 16:38
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	86		70-130		09/20/2022 16:38
<u>Analyst(s):</u>	DB				

Batch #2

(Cont.)



Analytical Report

Client: C.R.U.D.E FIELD GROUP
Date Received: 09/16/2022 19:17
Date Prepared: 09/20/2022
Project: 2022 P66 Residue

WorkOrder: 2209A80
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: µg/wipe

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
7-Rose .1204	2209A80-004A	Wipe	09/15/2022 18:10	ICP-MS4 191SMPL.d	254215

Analytes	Result	RL	DF	Date Analyzed
Antimony	3.8	0.50	1	09/20/2022 16:42
Arsenic	2.8	0.50	1	09/20/2022 16:42
Barium	160	5.0	1	09/20/2022 16:42
Beryllium	ND	0.50	1	09/20/2022 16:42
Cadmium	ND	0.25	1	09/20/2022 16:42
Chromium	26	0.50	1	09/20/2022 16:42
Cobalt	7.0	0.50	1	09/20/2022 16:42
Copper	88	0.50	1	09/20/2022 16:42
Lead	27	0.50	1	09/20/2022 16:42
Mercury	0.34	0.050	1	09/20/2022 16:42
Molybdenum	3.7	0.50	1	09/20/2022 16:42
Nickel	26	0.50	1	09/20/2022 16:42
Selenium	ND	0.50	1	09/20/2022 16:42
Silver	0.56	0.50	1	09/20/2022 16:42
Thallium	ND	0.50	1	09/20/2022 16:42
Vanadium	34	0.50	1	09/20/2022 16:42
Zinc	670	5.0	1	09/20/2022 16:42

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	80	70-130	09/20/2022 16:42

Analyst(s): DB

Batch #2

(Cont.)



Analytical Report

Client: C.R.U.D.E FIELD GROUP

WorkOrder: 2209A80

Date Received: 09/16/2022 19:17

Extraction Method: SW3050B

Date Prepared: 09/20/2022

Analytical Method: SW6020

Project: 2022 P66 Residue

Unit: µg/wipe

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
8-Rece .1239	2209A80-005A	Wipe	08/26/2022 16:15	ICP-MS4 192SMPL.d	254215

Analytes	Result	RL	DE	Date Analyzed
Antimony	0.74	0.50	1	09/20/2022 16:45
Arsenic	ND	0.50	1	09/20/2022 16:45
Barium	16	5.0	1	09/20/2022 16:45
Beryllium	ND	0.50	1	09/20/2022 16:45
Cadmium	ND	0.25	1	09/20/2022 16:45
Chromium	2.3	0.50	1	09/20/2022 16:45
Cobalt	0.62	0.50	1	09/20/2022 16:45
Copper	20	0.50	1	09/20/2022 16:45
Lead	12	0.50	1	09/20/2022 16:45
Mercury	ND	0.050	1	09/20/2022 16:45
Molybdenum	ND	0.50	1	09/20/2022 16:45
Nickel	2.9	0.50	1	09/20/2022 16:45
Selenium	ND	0.50	1	09/20/2022 16:45
Silver	2.6	0.50	1	09/20/2022 16:45
Thallium	ND	0.50	1	09/20/2022 16:45
Vanadium	3.8	0.50	1	09/20/2022 16:45
Zinc	61	5.0	1	09/20/2022 16:45

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	100	70-130	09/20/2022 16:45

Analyst(s): DB

Batch #2



Analytical Report

Client: C.R.U.D.E FIELD GROUP
Date Received: 09/16/2022 19:17
Date Prepared: 09/20/2022
Project: 2022 P66 Residue

WorkOrder: 2209A80
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: µg/wipe

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
4-Alhambra .444	2209A80-001A	Wipe	08/29/2022 17:05	ICP-MS3 046SMPL.D	254215
Analytes	Result	RL	DF	Date Analyzed	
Antimony	0.75	0.50	1	09/20/2022 16:20	
Arsenic	ND	0.50	1	09/20/2022 16:20	
Barium	21	5.0	1	09/20/2022 16:20	
Beryllium	ND	0.50	1	09/20/2022 16:20	
Cadmium	ND	0.25	1	09/20/2022 16:20	
Chromium	4.0	0.50	1	09/20/2022 16:20	
Cobalt	1.1	0.50	1	09/20/2022 16:20	
Copper	13	0.50	1	09/20/2022 16:20	
Lead	10	0.50	1	09/20/2022 16:20	
Mercury	ND	0.050	1	09/20/2022 16:20	
Molybdenum	ND	0.50	1	09/20/2022 16:20	
Nickel	4.1	0.50	1	09/20/2022 16:20	
Selenium	ND	0.50	1	09/20/2022 16:20	
Silver	ND	0.50	1	09/20/2022 16:20	
Thallium	ND	0.50	1	09/20/2022 16:20	
Vanadium	6.3	0.50	1	09/20/2022 16:20	
Zinc	110	5.0	1	09/20/2022 16:20	
Surrogates	REC (%)	Limits		Date Analyzed	
Terbium	103	70-130		09/20/2022 16:20	
Analyst(s): MIG					

Batch #2

(Cont.)

2022

Amine test

- N-Methyl Diethanolamine: 1.5
- Triethanolamine: 0.30



Analytical Report

Client: C.R.U.D.E FIELD GROUP
Date Received: 08/16/2022 16:50
Date Prepared: 08/19/2022
Project: 2022 P66 Residue

WorkOrder: 2208B49
Extraction Method: MAI
Analytical Method: Amines by LCMS
Unit: mg/kg

Amines by LC-MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-444-Auto	2208B49-001A	Wipe	08/16/2022 14:00	LC3Q-MS2 F0822220306.D	252278

Analytes	Result	RL	DF	Date Analyzed
N-Methyl diethanolamine	1.5	0.49	2	08/22/2022 16:09
Triethanolamine	0.30	0.24	1	08/22/2022 16:03

Analyst(s): JS