

STATE OF
COLORADO

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

Re: Water quality report permits M-1994-117 and M-1983-141

Avrom Howard <aeh@nebuconsulting.com>

Mon, Apr 13, 2020 at 12:36 PM

To: "Eschberger - DNR, Amy" <amy.eschberger@state.co.us>

Cc: Mike Bynum <Mike@bzrez.com>, Mark Steen <goldhillbooks@yahoo.com>

Hi again,

Please find attached, below, pdf versions of reports containing historical and current/recent well and water measurement and sample data for permits M-1994-117 and M-1983-141.

I trust they are now in the correct format for submission purposes. Please confirm or let me know what is missing and/or incorrect.

Thanks!

Avrom

On Apr 13, 2020, at 1:26 PM, Eschberger - DNR, Amy <amy.eschberger@state.co.us> wrote:

Hi Avrom,

Thanks for submitting. In order for me to add your electronic submittal to Laserfiche (the permit file), I need them to be submitted in pdf format. Also, the permit number(s) must be listed in the summary sheet/email. They are M-1994-117 and M-1983-141.

Alternatively, you could mail the documents to our office. We do have one staff member present at the office to process incoming mail.

Thanks,

Amy Eschberger
Environmental Protection Specialist



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

O: 303.866.3567 x 8129 | F: 303.832.8106 | C: 303.945.9014

1313 Sherman Street, Room 215, Denver, CO 80203

Amy.Eschberger@state.co.us | <https://www.colorado.gov/drms>

On Thu, Apr 9, 2020 at 12:48 PM Avrom Howard <aeh@nebuconsulting.com> wrote:

Hello Amy,

Please find attached, below, updated water quality data for CMC's two permit areas.

Please confirm receipt and let me know if anything else is required at this time.

Regards,

Avrom

2 attachments**20-04 updated C&WD M-1983-141 water data.pdf**

77K

**20-04 updated GHM M-1994-117 water data.pdf**

79K

LOCATIONS			WELL MEASUREMENTS						WATER ANALYSES (ppm)							
LOCATION ID	NORTHING	EASTING	DATE	TIME	DEPTH (ft)	pH	TEMP (°C)	CONDUCTIVITY (uS/cm)	SAMPLE ID	DATE	As	Cd	Mn	Zn	Residue	Sulfate
W1			12/15/16	9:20	39.58	7.94	7.9	602	0161215 W1	12/16/16	-	-	0.006	0.01	380	191
W2			12/15/16	9:35	50.42	7.63	7.7	754	0161215 W2	12/16/16	-	-	<0.02	0.39	512	275
W3			12/15/16	9:45	26.08	7.48	8.0	721	0161215 W3	12/16/16	-	-	<0.02	<0.02	452	168
W4			12/15/16	10:00	30.42	7.46	7.8	675	0161215 W4	12/16/16	-	-	0.237	<0.02	422	150
TP			12/15/16	-	-	-	frozen	-	-	-	-	-	-	-	-	-
W1			03/20/17	10:22	41.50	7.93	9.3	632	0170320 W1	03/21/17	-	-	0.008	0.01	408	213
W2			03/20/17	10:37	57.33	7.72	9.3	778	0170320 W2	03/21/17	-	-	<0.02	0.45	552	285
W3			03/20/17	10:47	28.17	7.50	8.8	746	0170320 W3	03/21/17	-	-	<0.02	0.02	464	164
W4			03/20/17	10:54	32.67	7.57	8.4	695	0170320 W4	03/21/17	-	-	0.075	<0.02	436	155
TP			03/20/17	11:50	-	7.80	8.1	637	0170320 T.P.	03/21/17	0.0013	<0.0001	1.410	<0.02	2,040	1,330
W1			06/21/17	11:00	33.70	7.84	10.4	414	0170621 W1	06/22/17	-	-	<0.02	0.13	236	102
W2			06/21/17	11:08	31.60	7.25	10.0	558	0170621 W2	06/22/17	-	-	<0.02	0.14	350	195
W3			06/21/17	11:20	20.10	7.25	9.5	649	0170621 W3	06/22/17	-	-	0.130	<0.02	388	159
W4			06/21/17	11:25	26.80	7.10	10.1	399	0170621 W4	06/22/17	-	-	0.009	0.06	226	58
TP			06/21/17	12:12	-	7.36	21.6	246	0170621 TP	06/22/17	0.0015	<0.0001	0.270	<0.02	2,120	1,380
W1			09/20/17	10:55	37.90	8.00	9.3	430	0170920-W1	09/21/17	-	-	<0.02	0.01	226	110
W2			09/20/17	11:10	41.60	7.53	9.4	642	0170920-W2	09/21/17	-	-	<0.02	0.20	394	226
W3			09/20/17	11:20	25.00	7.42	8.8	586	0170920-W3	09/21/17	-	-	<0.02	0.02	330	138
W4			09/20/17	11:26	30.30	7.10	8.3	472	0170920-W4	09/21/17	-	-	<0.02	<0.02	286	98
TP			09/20/17	12:20	-	7.68	14.0	324	0170920-TP	09/21/17	0.0019	<0.0001	0.060	<0.02	2,800	1,890
W1			12/19/17	10:30	38.70	7.81	9.1	575	017/012/19 W1	12/21/17	-	-	<0.02	0.02	334	159
W2			12/19/17	10:41	43.30	7.84	8.6	715	017/012/19 W2	12/21/17	-	-	<0.02	0.32	476	241
W3			12/19/17	10:56	41.80	6.76	8.1	622	017/012/19 W3	12/21/17	-	-	<0.02	<0.02	390	153
W4			12/19/17	11:09	31.30	7.39	7.9	625	017/012/19 W4	12/21/17	-	-	0.009	<0.02	380	121
TP			12/19/17	10:00	-	-	-	-	017/012/19 TP	12/21/17	0.0017	0.0002	<0.02	0.04	3,380	1,970
W1			03/13/18	10:55	41.30	7.85	9.0	566	018-03-13 W1	03/14/18	0.0003	0.0001	<0.02	0.01	364	165
W2			03/13/18	11:10	52.30	7.75	8.4	727	018-03-13 W2	03/14/18	-	-	<0.02	0.31	506	246
W3			03/13/18	11:20	28.20	7.32	8.1	655	018-03-13 W3	03/14/18	-	-	<0.02	0.02	414	153
W4			03/13/18	11:30	33.20	8.00	7.9	746	018-03-13 W4	03/14/18	-	-	0.357	<0.02	476	167
TP			03/13/18	-	-	-	-	-	-	-	-	-	-	-	-	-
W1			06/14/18	10:15	33.50	7.87	10.0	403	018-12-10-W1	12/11/18	<0.0004	0.00014	<0.02	0.01	254	115
W2			06/14/18	10:20	33.33	7.74	9.7	533	018-12-10-W2	12/11/18	-	-	<0.02	0.18	434	211
W3			06/14/18	10:27	21.08	7.46	9.2	672	018-12-10-W3	12/11/18	-	-	<0.02	0.01	394	155
W4			06/14/18	10:40	27.08	7.40	9.3	704	018-12-10-W4	12/11/18	-	-	0.122	<0.02	430	164
TP			06/14/18	9:30	-	7.65	19.6	1,800	-	-	-	-	-	-	-	-
W1			09/18/18	10:20	38.10	8.18	10.5	411	018-03-13 W1	10/02/18	<0.0004	0.0002	<0.02	<0.02	252	110
W2			09/18/18	10:35	43.40	7.45	10.3	627	018-03-13 W2	10/02/18	-	-	<0.02	0.17	416	207
W3			09/18/18	10:40	27.10	7.75	19.3	662	018-03-13 W3	10/02/18	-	-	<0.02	0.02	404	181
W4			09/18/18	19:50	31.50	7.40	9.5	747	018-03-31 W4	10/02/18	-	-	0.087	<0.02	472	172
TP			09/18/18	12:56	-	7.25	7.6	1,524	018-03-BTP	10/02/18	0.0009	<0.0001	<0.02	<0.02	3,470	2,540
W1			12/10/18	9:20	40.08	8.02	8.2	443	018-12-10-W1	12/11/18	<0.0004	0.00014	<0.02	0.01	254	115
W2			12/10/18	9:35	51.33	7.59	7.6	642	018-12-10-W2	12/11/18	-	-	<0.02	0.18	434	211
W3			12/10/18	9:50	28.42	7.47	7.6	636	018-12-10-W3	12/11/18	-	-	<0.02	0.01	394	155
W4			12/10/18	10:00	30.58	7.43	7.2	694	018-12-10-W4	12/11/18	-	-	0.122	<0.02	430	164
TP			12/10/18	-	-	-	-	-	-	-	-	-	-	-	-	-
W1			03/24/19	10:41	38.08	8.12	9.1	321	0190325 W1	03/26/19	0.0003	0.00013	<0.02	<0.02	232	77

LOCATIONS			WELL MEASUREMENTS						WATER ANALYSES (ppm)							
LOCATION ID	NORTHING	EASTING	DATE	TIME	DEPTH (ft)	pH	TEMP (°C)	CONDUCTIVITY (uS/cm)	SAMPLE ID	DATE	As	Cd	Mn	Zn	Residue	Sulfate
MW1			12/15/16	9:02	66.42	8.60	7.7	1,650	0161215 MW1	12/16/16	0.0006	0.0001	0.257	0.04	1,520	849
MW5			12/15/16	10:20	26.42	7.79	10.7	888	0161215M W5	12/16/16	0.0035	0.0002	0.073	<0.02	660	331
CM			12/15/16	10:50	-	7.98	-	-	-	-	-	-	-	-	-	-
CG			12/15/16	-	-	-	3.7	460	0161215 CG	12/16/16	0.0002	0.0008	0.033	0.22	250	145
MW1			03/20/17	10:08	71.00	7.92	9.1	1,672	0170320 MW1	03/21/17	0.0009	0.0006	0.084	0.06	1,550	930
MW5			03/20/17	11:10	27.00	7.53	10.0	886	0170320 MW5	03/21/17	0.004	0.0003	0.032	<0.02	664	324
CM			03/20/17	11:22	-	8.20	8.3	1,059	0170320 CM	03/21/17	0.0003	0.0016	<0.02	0.51	826	456
CG			03/20/17	11:34	-	8.01	6.2	538	0170320 CG	03/21/17	<0.0004	0.0011	0.019	0.35	346	196
MW1			06/21/17	10:45	73.10	8.34	11.8	1,667	0170621 MW1	06/22/17	0.0007	0.0002	0.220	0.08	1,480	935
MW5			06/21/17	11:45	24.10	7.57	11.3	897	0170621 MW5	06/22/17	0.0035	0.0002	0.017	<0.02	648	354
CM			06/21/17	12:05	-	7.40	11.6	1,217	0170621 CM	06/22/17	0.0005	0.019	2.900	5.62	1,010	586
CG			06/21/17	12:45	-	7.56	14.1	436	0170621 CG	06/22/17	0.0002	0.0011	0.015	0.29	276	167
MW1			09/20/17	10:40	70.90	8.92	19.6	1,653	0170920-MW1	09/21/17	0.0006	0.0007	0.122	0.10	1,450	959
MW5			09/20/17	11:52	26.50	7.87	12.0	888	0170920-MW5	09/21/17	0.0031	0.0003	0.022	0.01	622	307
CM			09/20/17	11:44	-	7.45	13.9	1,323	0170920-CMP	09/21/17	0.0005	0.0083	2.270	3.03	1,120	687
CG			09/20/17	12:01	-	7.85	11.5	466	0170920-CG	09/21/17	0.0003	0.001	0.021	0.24	286	152
MW1			12/19/17	10:19	70.60	8.09	8.9	1,681	017/012/19 MW1	12/21/17	0.001	0.0011	0.147	0.14	1,460	829
MW5			12/19/17	12:25	26.10	7.28	11.0	891	017/012/19 MW5	12/21/17	0.0027	0.0002	0.007	<0.02	656	322
CM			12/19/17	12:35	-	7.90	3.1	1,372	017/012/19 CMP	12/21/17	0.0004	0.008	2.020	3.41	1,070	612
CG			12/19/17	12:50	-	8.10	4.20	640.0	017/012/19 CG	12/21/17	<0.0004	0.0015	0.013	0.44	396	223
MW1			03/13/18	10:45	68.70	8.46	8.8	1,607	018-03-13 MW1	03/14/18	0.001	0.0005	0.147	0.13	1,500	901
MW5			03/13/18	12:15	24.80	7.75	9.7	918	018-03-13 MW5	03/14/18	0.0037	0.0003	0.018	0.01	666	329
CM			03/13/18	12:00	-	6.53	12.8	18,857	018-03-13 CM	03/14/18	0.0008	0.0008	15.100	1.16	1,870	1,160
CG			03/13/18	12:36	-	7.92	5.5	617	018-03-13 CG	03/14/18	<0.0004	0.0014	0.011	0.39	420	221
MW1			06/14/18	10:05	64.58	7.16	9.6	1,604	018-12-10-MW1	12/11/18	0.005	0.00007	0.010	0.04	1,440	814
MW5			06/14/18	11:50	20.50	7.86	7.9	919	018-12-10-MW5	12/11/18	0.0017	0.003	0.015	0.01	662	337
CM			06/14/18	11:55	-	7.70	17.0	1,165	018-12-10-CG	12/11/18	<0.0004	0.001	0.010	0.32	350	206
CG			06/14/18	12:25	-	7.78	13.9	514	-	-	-	-	-	-	-	-
MW1			09/18/18	10:07	63.90	8.10	10.7	1,457	018-03-13 MW1	10/02/18	0.0006	0.000016	0.008	0.06	1,470	857
MW5			09/18/18	11:15	20.10	7.71	13.1	907	018-03-31 MW5	10/02/18	0.0017	0.00034	<0.02	<0.02	666	331
CM			09/18/18	11:30	-	7.81	16.3	1,220	018-03-31 CM	10/02/18	0.0003	0.00609	1.290	2.87	1,040	553
CG			09/18/18	11:50	-	7.64	15.8	513	018-03-31 CG	10/02/18	<0.0004	0.00105	0.031	0.20	336	179
MW1			12/10/18	9:10	69.25	7.63	7.9	1,520	018-12-10-MW1	12/11/18	0.0005	0.00007	0.010	0.04	1,440	814
MW5			12/10/18	10:45	25.00	7.84	10.6	858	018-12-10-MW5	12/11/18	0.0017	0.0003	0.015	0.01	662	337
CM			12/10/18	-	-	-	-	-	018-12-10-CG	12/11/18	<0.0004	0.001	0.010	0.32	350	260
CG			12/10/18	11:15	-	7.96	1.7	591	-	-	-	-	-	-	-	-
MW1			03/24/19	10:30	72.08	8.18	8.6	1,570	0190325 MW1	03/26/19	0.0007	0.00009	0.019	0.05	1,450	866
MW5			03/24/19	11:45	24.08	7.77	8.1	916	0190325 MW5	03/26/19	0.0017	0.00021	0.006	<0.02	688	327
CM			03/24/19	-	-	-	-	-	-	-	-	-	-	-	-	-
CG			03/24/19	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1			06/24/19	8:05	67.25	7.95	8.5	1,555	0190624-MW1	06/25/19	0.0005	0.00016	0.030	0.03	1,420	777
MW5			06/24/19	9:10	20.58	7.76	8.6	892	0190624-MW-5	06/25/19	0.0016	0.00025	0.010	<0.02	686	309
CM			06/24/19	9:20	-	7.60	7.6	1,442	0190624-CMP	06/25/19	0.0004	0.0184	4.790	5.89	1,270	760
CG			06/24/19	9:40	-	7.88	8.3	449	0190624-CG	06/25/19	<0.0004	0.00066	<0.02	0.19	290	151
MW1			09/23/19	9:25	72.08	8.10	9.0	1,598	0190923 MW1	10/09/19	0.0006	0.00015	0.090	0.05	1,440	853
MW5			09/23/19	10:25	22.62	7.67	12.6	879	0190923 MW5	10/09/19	0.0017	0.00023	0.010	<0.02	680	336

