

**CAMECO RESOURCES
CROW BUTTE OPERATION**



**86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169**

**(308) 665-2215
(308) 665-2341 – FAX**

July 12, 2021

USPS PRIORITY MAIL
SIGNATURE CONFIRMATION

Sue Dempsey, Drinking Water and Groundwater Division Administrator
Nebraska Department of Environment and Energy
P.O. Box 98922
Lincoln, NE 68509-8922

Class III UIC Permit NE0122611
June 2021 Monthly Restoration Report

Dear Ms. Dempsey:

Please find enclosed the June 2021 Monthly Restoration Reports for Mine Units 2, 3, 4, 5, 6, 7 and 8. The reverse osmosis (RO) units continue to inject permeate and reductant into Mine Units 2, 4, 6, 7, and 8.

Mine Unit 3 and 5 remained in stability monitoring.

If you have any questions regarding this submittal, please feel free to contact me at (308) 665-2215, ext. 117.

Sincerely,
Cameco Resources
Crow Butte Operation

Walter D. Nelson
SHEQ Coordinator

Enclosures: As Stated

cc: **Ron Burrows – NRC**
CBO - File
cc: CR – Electronic File
Kory Winters – NDEE Field Office
Amanda Jones – NDEE Program Coordinator

CROW BUTTE MINE
MONTHLY RESTORATION REPORT

June 2021

MINE UNIT 2

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		P97, P118, P119, I175P, I180P, I188P
d. Wellfield Recirculation		X	
e. Other (explain):			

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

CM1-6, P94, P97, I113P, P118, P119, I136P, I137P, I142P, I144P, I171P, I175P, I180P, I188P, PR8, PR15.

Mine Unit 2 Restoration Data

Well ID	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
CM1-6													
	6/16/2021	193	4.26	56	0.98	155	79	733	8.36	454	0.08	0.33	-0.02
I113P													
	6/16/2021	233	6.87	55	1.14	173	96	812	8.27	503	0.05	0.93	0.04
I136P													
	6/16/2021	232	8.39	62	1.79	190	117	882	8	547	0.04	0.21	-0.01
I137P													
	6/16/2021	195	4.99	65	0.96	166	100	783	7.82	485	0.03	2.11	-0.02
I142P													
	6/16/2021	197	5.64	49	1.54	170	103	755	7.37	468	0.34	0.02	-0.01
I144P													
	6/16/2021	215	5.68	42	1.16	171	112	773	8.25	479	0.02	0.27	-0.02
I171P													
	6/16/2021	195	6.67	61	1.28	160	91	761	8.36	472	0.02	0.42	-0.02
I175P													
	6/16/2021	252	9.10	95	2.67	238	160	1137	7.72	705	0.00	2.59	0.11
I180P													
	6/16/2021	197	2.61	63	0.74	184	104	835	7.98	518	0.00	0.81	0.14
I188P													
	6/16/2021	212	8.60	77	1.97	193	119	946	8.19	587	0.00	0.56	0.10
P118													
	6/16/2021	248	9.89	116	2.75	262	192	1270	7.71	787	0.02	1.88	0.05
P119													
	6/16/2021	253	13.42	110	3.62	245	187	1243	7.73	771	0.01	1.53	0.02
P94													
	6/16/2021	187	14.80	46	1.08	153	95	744	7.93	461	0.04	0.26	-0.02
P97													
	6/16/2021	262	10.03	97	2.67	243	153	1178	7.85	730	0.02	1.20	0.08
PR15													
	6/16/2021	252	6.43	72	1.56	221	139	1013	8.21	628	0.00	1.45	0.37
PR8													
	6/16/2021	273	6.73	99	1.69	258	175	1208	8.12	749	0.01	1.02	0.02

CROW BUTTE MINE
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June 2021

MINE UNIT 3

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment		X	
d. Wellfield Recirculation		X	
e. Other (explain):	X		The Mine Unit is in Stability Monitoring.

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

No in-house samples were collected during the month.

CROW BUTTE MINE
MONTHLY RESTORATION REPORT

June 2021

MINE UNIT 4

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		BL-8, CM1-7, I536P, I538P, I544P, I548P, I549P, I550P, I551P, I552P
d. Wellfield Recirculation		X	
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

BL-8, CM1-7, I536P, I538P, I544P, I548P, I549P, I550P, I551P, I552P.

Mine Unit 4 Restoration Data

Well ID	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
BL-8	6/16/2021	289	7.98	59	2.25	221	105	1008	7.87	625	0.00	0.55	0.27
CM1-7	6/16/2021	273	6.14	71	1.85	224	136	1042	7.64	646	0.01	0.80	0.06
I536P	6/16/2021	407	21.58	120	6.01	344	256	1718	8.16	1065	0.00	1.89	0.08
I538P	6/16/2021	360	16.39	136	4.34	327	227	1633	8.04	1012	0.00	0.58	0.14
I544P	6/16/2021	351	12.90	84	3.68	282	181	1343	7.7	833	0.00	1.01	0.18
I548P	6/16/2021	423	18.33	104	5.33	356	252	1666	7.58	1033	0.01	0.65	0.17
I549P	6/16/2021	771	58.52	254	16.65	747	700	3576	7.25	2217	0.05	4.83	0.16
I550P	6/16/2021	527	37.55	153	8.13	464	364	2196	7.58	1362	0.04	2.09	0.29
I551P	6/16/2021	306	10.56	72	2.57	241	161	1166	7.62	723	0.01	0.79	0.25
I552P	6/16/2021	290	6.88	61	1.44	232	119	1038	7.64	644	0.01	0.76	0.56

CROW BUTTE MINE
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MINE UNIT 5

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment		X	
d. Wellfield Recirculation		X	
e. Other (explain):	X		The Mine Unit is in Stability Monitoring.

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

No in-house samples were collected during the month.

CROW BUTTE MINE
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MINE UNIT 6

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		P1337, P1628
d. Wellfield Recirculation		X	
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P1337, P1628.

Mine Unit 6 Restoration Data

Well ID	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
P1337													
	6/16/2021	410	9.31	94	2.56	328	168	1496	8.24	928	0.00	1.93	0.59
P1628													
	6/16/2021	294	7.38	121	2.36	293	203	1431	8.43	887	0.00	0.65	0.57

CROW BUTTE MINE
MONTHLY RESTORATION REPORT

June 2021

MINE UNIT 7

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		IX and RO BL-17, CM4-14, CM4-15, CM4-16, CM4-17, CM4-18, I1971P, P1972, I1973P, I1975P, I1978P, P1986, P2014, P2038, P2040, P2103, I2183P, I2185P, P2188, P2216, P2226, P2264, P2316, P2359, P2384, P2401, I2429P, P2470, P2476, I2502P, P2505, P2510, P2523, P2538, P2601, P2610, P2660, P5220, P5230, P5250, P5283.
d. Wellfield Recirculation		X	
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

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3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

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4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

BL-17, CM3-7, CM4-12, CM4-13, CM4-14, CM4-15, CM4-16, CM4-17, CM4-18, P1957, I1971P, P1972, I1973P, I1975P, I1977P, I1978P, I1982P, I1985P, P1986, P2014, P2038, P2040, P2108, P2125, I2183P, I2185P, P2188, P2216, P2219, P2226, I2244P, P2264, P2303, P2316, P2331, P2340, P2359, P2384, P2401, I2429P, P2468, P2470, P2476, P2481, I2502P,
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P2505, P2510, P2523, P2538, P2540, P2541, P2601, P2610, P2612, P2614, P2615, P2624,
P2660, P5230, P5250, P5258, P5271, P5278, P5283.

Mine Unit 7 Restoration Data

Well ID	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
BL-17	6/16/2021	510	15.43	115	4.13	397	240	1894	8.04	1174	0.00	0.58	1.32
CM3-7	6/16/2021	313	18.53	113	3.75	283	227	1425	7.92	884	0.06	0.17	0.29
CM4-12	6/16/2021	284	14.53	65	2.04	216	142	1066	7.26	661	0.48	0.07	0.00
CM4-13	6/16/2021	406	20.13	79	5.06	308	210	1499	7.74	929	0.01	0.50	0.27
CM4-14	6/16/2021	1044	95.05	336	28.64	1005	948	4787	7.32	2968	0.00	2.58	0.38
CM4-15	6/16/2021	820	58.28	237	17.75	723	679	3589	7.5	2225	0.00	1.72	0.52
CM4-16	6/16/2021	912	70.77	286	20.91	815	781	4054	7.37	2513	0.00	1.22	0.22
CM4-17	6/16/2021	860	76.56	294	23.58	779	688	3832	7.46	2376	0.02	0.63	0.03
CM4-18	6/16/2021	480	27.32	136	7.72	393	290	2005	7.74	1243	0.01	0.40	0.37
I1971P	6/16/2021	852	61.56	202	17.07	724	644	3522	7.47	2184	0.00	1.76	0.19
I1973P	6/16/2021	804	49.52	200	12.15	670	572	3370	7.59	2089	0.00	4.72	0.58
I1975P	6/16/2021	848	57.92	241	18.15	732	641	3735	7.75	2316	0.00	4.77	0.26
I1977P	6/16/2021	335	35.86	63	5.16	216	144	1111	7.41	689	0.05	0.36	0.17
I1978P	6/16/2021	520	35.50	114	8.25	403	300	2056	7.67	1275	0.00	1.69	0.39
I1982P	6/16/2021	327	16.04	62	3.36	218	143	1073	7.77	665	0.00	0.64	0.58
I1985P	6/16/2021	278	27.54	55	3.13	174	108	940	7.5	583	0.02	0.15	0.12
I2183P	6/16/2021	624	48.30	172	11.64	539	453	2737	7.58	1697	0.00	5.80	0.82
I2185P	6/16/2021	1069	74.01	284	23.20	987	913	4630	7.8	2871	0.01	6.30	2.24
I2244P	6/16/2021	225	22.51	190	5.87	339	353	1709	6.97	1060	0.03	0.81	0.32

Mine Unit 7 Restoration Data

Well ID	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
I2429P	6/16/2021	491	26.26	135	7.74	421	331	2094	7.46	1298	0.00	4.15	0.45
I2502P	6/16/2021	326	21.46	202	5.62	410	377	2111	8.01	1309	0.00	0.54	0.08
P1957	6/16/2021	200	19.65	59	1.65	180	134	863	7.05	535	0.12	0.11	0.06
P1972	6/16/2021	596	34.59	146	9.57	505	439	2533	7.5	1570	0.04	3.09	0.41
P1986	6/16/2021	545	38.12	198	9.38	524	452	2610	7.75	1618	0.02	1.35	0.50
P2014	6/16/2021	228	9.54	56	2.09	181	115	913	7.49	566	0.08	0.08	0.13
P2038	6/16/2021	630	40.36	176	11.65	538	483	2831	7.63	1755	0.00	1.93	0.13
P2040	6/16/2021	855	68.76	271	22.16	775	736	4065	7.51	2520	0.00	2.89	0.12
P2108	6/16/2021	261	14.08	62	2.18	197	125	995	7.32	617	0.54	0.13	0.11
P2125	6/16/2021	363	13.37	90	3.27	324	250	1508	7.37	935	0.18	0.47	0.03
P2188	6/16/2021	294	10.03	67	2.28	231	152	1164	7.68	722	0.00	0.55	0.76
P2216	6/16/2021	462	38.12	226	8.68	531	468	2574	7.87	1596	0.00	3.41	0.66
P2219	6/16/2021	212	16.23	48	1.53	160	110	755	7.16	468	0.28	0.02	0.02
P2226	6/16/2021	456	11.41	80	3.29	356	202	1655	7.66	1026	0.00	1.64	0.57
P2264	6/16/2021	256	19.97	106	3.07	260	207	1368	7.77	848	0.03	0.44	0.24
P2303	6/16/2021	192	14.44	56	2.25	161	109	789	6.93	489	1.74	0.03	-0.01
P2316	6/16/2021	874	75.33	225	20.40	729	658	3744	7.54	2321	0.00	5.86	0.65
P2331	6/16/2021	203	20.03	53	2.77	166	126	810	7.09	502	0.15	0.03	-0.01
P2340	6/16/2021	230	17.49	41	3.12	171	124	853	7.2	529	0.34	0.03	0.00

Mine Unit 7 Restoration Data

Well ID	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
P2359	6/16/2021	409	16.93	78	4.63	311	211	1583	7.57	981	0.01	1.85	0.31
P2384	6/16/2021	599	49.02	153	13.41	518	449	2683	7.7	1663	0.01	2.16	0.46
P2401	6/16/2021	468	36.85	118	9.23	362	311	2001	7.84	1241	0.01	0.70	0.31
P2468	6/16/2021	385	17.21	158	4.31	389	342	1838	7.76	1140	0.01	0.68	0.81
P2470	6/16/2021	397	27.26	145	5.74	365	280	1837	7.83	1139	0.02	1.23	0.16
P2476	6/16/2021	517	31.02	151	9.01	449	378	2249	7.54	1394	0.02	1.22	0.60
P2481	6/16/2021	690	26.84	165	8.25	579	432	2734	7.72	1695	0.00	1.78	1.51
P2505	6/16/2021	318	20.02	153	4.39	357	296	1748	7.69	1084	0.00	0.35	0.57
P2510	6/16/2021	582	39.11	240	9.27	567	499	2709	7.93	1680	0.00	2.26	0.78
P2523	6/16/2021	401	17.23	89	4.35	328	231	1563	7.49	969	0.00	1.45	0.58
P2538	6/16/2021	384	22.35	144	6.48	378	328	1906	7.63	1182	0.03	0.59	1.04
P2540	6/16/2021	325	24.57	62	3.40	220	140	1084	7.68	672	0.02	0.69	0.23
P2541	6/16/2021	222	25.82	60	3.59	157	98	797	7.3	494	0.07	0.12	0.09
P2601	6/16/2021	415	24.14	185	6.45	431	383	2175	7.69	1349	0.05	0.35	0.56
P2610	6/16/2021	664	30.46	177	9.35	556	415	2659	7.66	1649	0.01	2.13	1.26
P2612	6/16/2021	262	10.71	65	2.14	213	145	1007	7.25	624	0.06	0.12	0.50
P2614	6/16/2021	391	21.18	90	5.17	287	178	1355	7.81	840	0.01	0.40	0.16
P2615	6/16/2021	296	16.51	62	2.72	209	129	995	7.63	617	0.03	0.29	0.28
P2624	6/16/2021	200	10.54	55	1.64	159	107	778	7.18	482	0.01	0.11	0.41

Mine Unit 7 Restoration Data

Well ID	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
P2660	6/16/2021	450	21.85	101	5.29	363	254	1785	7.62	1107	0.02	1.35	0.45
P5230	6/16/2021	858	55.89	200	15.91	730	645	3549	7.52	2200	0.06	4.10	0.49
P5250	6/16/2021	555	32.00	158	9.32	472	395	2382	7.65	1477	0.00	0.96	1.17
P5258	6/16/2021	199	12.62	53	1.50	157	104	803	7.19	498	0.26	0.06	0.06
P5271	6/16/2021	372	36.74	63	3.90	257	163	1253	7.29	777	0.03	0.28	0.26
P5278	6/16/2021	457	18.73	76	3.76	329	206	1540	7.83	955	0.02	1.35	0.57
P5283	6/16/2021	754	45.47	185	13.73	642	535	3238	7.69	2008	0.00	2.59	1.35

CROW BUTTE MINE
MONTHLY RESTORATION REPORT

June 2021

MINE UNIT 8

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		CM6-20, CM6-21, I2671P, I2672P, I2692P, P2701, P2702, P2715, P2724, P2734, P2740, P2758, P2764, P2765, P2770, P2774, P2808, P2844, P2855, P2863, P2880, P2904, P2908, P2926, P3153, P3166, P3170, P3173, P3178, P3189, P3192, P3209, P6103, P6104, P6105, P6107, P6109, P6110, P6112, P6127, P6140.
d. Wellfield Recirculation		X	
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P2689, P2702, P2715, P2734, P2758, P2764, P2765, P2770, P2774, P2808, P2844, P2855, P2904, P2908, P2926, P3153, P3166, P3170, P3173, P3178, P3189, P3192, P3209, P3441, P6103, P6104, P6105, P6107, P6109, P6110, P6112, P6127, P6140.

Mine Unit 8 Restoration Data

Well ID	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
P2689	6/16/2021	892	45.83	457	14.28	998	870	4518	7.69	2801	0.04	14.72	0.12
P2702	6/16/2021	816	31.27	351	10.38	834	644	3910	7.85	2424	0.00	9.85	0.71
P2715	6/16/2021	587	15.88	221	5.54	575	389	2654	8	1645	0.00	5.91	1.09
P2734	6/16/2021		54.43	591	20.12	1269	1073	5855	7.7	3630	-0.01	22.02	0.92
P2758	6/16/2021	676	18.38	308	7.59	710	531	3338	8.1	2070	0.00	3.81	1.54
P2764	6/16/2021	765	28.25	346	10.20	796	610	3769	7.87	2337	0.00	10.31	1.02
P2765	6/16/2021	483	9.99	223	3.55	494	344	2385	8.2	1479	0.02	4.14	0.31
P2770	6/16/2021	559	15.01	248	5.57	568	424	2700	8.31	1674	0.00	1.86	2.50
P2774	6/16/2021	610	20.87	288	6.86	630	460	3004	7.99	1862	0.00	5.52	0.91
P2808	6/16/2021	680	21.72	313	7.99	713	561	3393	8.45	2104	0.00	4.64	1.34
P2844	6/16/2021	482	15.40	241	5.02	514	400	2417	8.2	1499	0.00	2.55	1.21
P2855	6/16/2021	690	27.89	375	10.05	778	642	3551	8.26	2202	0.00	6.42	0.69
P2904	6/16/2021	826	50.17	442	15.10	890	745	4160	7.78	2579	0.01	8.76	0.68
P2908	6/16/2021	956	46.29	482	15.31	1084	890	4743	7.78	2941	0.01	18.10	0.75
P2926	6/16/2021	853	34.41	385	11.94	883	706	3905	8.12	2421	0.00	13.52	1.39
P3153	6/16/2021	556	13.78	179	4.04	476	325	2226	8.27	1380	0.04	5.18	0.68
P3166	6/16/2021	577	22.76	237	7.00	561	426	2585	8.13	1603	0.04	5.30	0.42
P3170	6/16/2021	675	31.77	296	9.42	681	528	3166	7.84	1963	0.01	5.03	0.55
P3173	6/16/2021	744	27.82	372	9.76	806	638	3663	7.81	2271	-0.01	14.19	0.89

Mine Unit 8 Restoration Data

Well ID	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
P3178	6/16/2021	1001	52.90	470	18.06	1070	858	4768	7.98	2956	0.00	6.09	0.35
P3189	6/16/2021	665	54.21	336	14.54	732	603	3386	7.7	2099	0.00	1.99	0.22
P3192	6/16/2021	696	39.71	320	11.61	726	588	3364	7.93	2086	0.02	5.10	0.15
P3209	6/16/2021	858	52.26	459	15.84	1016	860	4507	7.69	2794	0.05	10.35	0.25
P3441	6/16/2021	929	57.97	495	17.45	1017	856	4667	7.64	2894	0.00	7.77	0.28
P6103	6/16/2021	539	16.29	245	5.92	545	407	2524	8.15	1565	0.00	1.29	1.08
P6104	6/16/2021	611	17.40	276	6.82	629	471	2863	8.39	1775	0.00	0.97	0.47
P6105	6/16/2021	440	14.88	215	4.46	457	347	2156	8.13	1337	0.04	0.33	0.20
P6107	6/16/2021	535	23.80	238	6.58	525	416	2524	8.06	1565	0.01	1.39	0.30
P6109	6/16/2021	499	10.19	211	3.68	502	350	2266	8.12	1405	0.00	1.94	0.81
P6110	6/16/2021	499	19.77	229	6.08	504	382	2376	8.29	1473	0.00	0.95	0.70
P6112	6/16/2021	406	8.92	191	3.13	443	329	2046	8.32	1269	0.01	0.27	0.41
P6127	6/16/2021	590	21.01	255	6.85	623	475	2784	8.02	1726	0.02	1.05	0.45
P6140	6/16/2021	634	17.53	263	6.82	644	473	2912	8.13	1805	0.00	0.75	0.84